NEW YORK STATE | Department of Environmental Conservation

KATHY HOCHUL
Governor

AMANDA LEFTON
Commissioner

Via E-mail

Terry Etter
Unisys Corporation
Corporate Environmental Affairs
3199 Pilot Knob Road
Eagan, MN 55121

July 24, 2026

Re: Revised Construction Completion Report Interim Remedial Measure #1
Former Sperry Remington Site – North Portion (NYSDEC #C808022)
777 South Main Street
City of Elmira, Chemung County, NY

Dear Terry:

The New York State Department of Environmental Conservation (NYSDEC), in consultation with New York State Department of Health (NYSDOH), has completed its review of the document entitled "Construction Completion Report Interim Remedial Measure #1," dated June 17, 2026 and **approve** in accordance with the following:

Section 3.7 Soils Remaining at the Site above SCOs. Future actions proposed within the document text, figures and drawings for COPCs that remain in-place require Agency concurrence and approval. Interim Remedial Measures do not constitute the final remedy for the Site and therefore, proposed future actions will be evaluated further under the Site Remedial Investigation Report and related Site reporting.

Within 15 days, please elect in writing your acceptance of the above Approval and provide a final compiled report, including this letter as cover to the Agency with electronic notification that the document has been placed within the repository.

Please contact me via email at kaleigh.zappia-carvin@dec.ny.gov or at 585-226-5351 if you have questions regarding this letter.

Sincerely,

Kaleigh Zappia-Carvin

Kaleigh Zappia-Carvin
Assistant Engineer (Environmental)

K. Ouverson / A. Krasnopoler
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Geosyntec consultants

engineers | scientists | innovators

B&B Engineers & Geologists of new york, p.c.

an affiliate of Geosyntec Consultants

CONSTRUCTION COMPLETION REPORT
INTERIM REMEDIAL MEASURE #1

FORMER SPERRY REMINGTON SITE – NORTH PORTION
777 SOUTH MAIN STREET
CITY OF ELMIRA, CHEMUNG COUNTY, NY
NYSDEC PROJECT C808022

Prepared for
New York State Department of Environmental Conservation
Division of Environmental Remediation, Region 8
6274 East Avon-Lima Road
Avon, New York 14414-9519

Prepared by
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Project Number 26012395
Document Number MD26021

April 2018; Revised February 2019; Revised June 2026

Former Sperry Remington Site – North Portion
City of Elmira
CHEMUNG COUNTY, NEW YORK

IRM #1 CONSTRUCTION COMPLETION REPORT

NYSDEC Site Number: C808022

Prepared for:

Unisys Corporate Environmental Affairs

3199 Pilot Knob Road

MS F1B05

Eagan, MN 55121

Prepared by:

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10211 Wincopin Circle, 4th Floor
Columbia, Maryland 21044

JUNE 2026

CERTIFICATIONS

I, Aron Krasnopoler am currently a registered professional engineer licensed by the State of New York, I had primary direct responsibility for implementation of the remedial program activities, and I certify that the Interim Remedial Measures #1 Work Plan was implemented and that all construction activities were completed in substantial conformance with the Department-approved Interim Remedial Measures #1 Work Plan.

I certify that all documents generated in support of this report have been submitted in accordance with the DER's electronic submission protocols and have been accepted by the Department.

I certify that all data generated in support of this report have been submitted in accordance with the Department's electronic data deliverable and have been accepted by the Department.

I certify that all information and statements in this certification form are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law. I, Aron Krasnopoler of Beech and Bonaparte Engineering, P.C., of 10211 Wincopin Circle, 4th floor, Columbia Maryland 21044 am certifying as the Remedial Party's Designated Site Representative for the site.

Aron Krasnopoler	6/17/2026	Aron Krasnopoler
NYS Professional Engineer #089954-1	Date	Signature



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LIST OF ACRONYMS

Acronym	Definition
$\mu g/m^3$	micrograms per cubic meter
BCA	Brownfield Cleanup Agreement
BCP	Brownfields Cleanup Program
bgs	below ground surface
CAMP	Community Air Monitoring Plan
CCR	Construction Completion Report
COPCs	Constituents of Potential Concern
CPP	Community Participation Plan
CQA	Construction Quality Assurance
DER-10	NYSDEC Technical Guidance for Site Investigation and Remediation
DPT	Direct Push Technology
ECs/ICs	Engineering and Institutional Controls
ECSD	Elmira City School District
EHS	Elmira High School
ESD	Electronic Data Summary
FSP	Field Sampling Plan
HASP	Site Specific Health & Safety Plan
IRM	Interim Remedial Measure
LOD	Limits of Disturbance
mg/kg	Milligrams per kilogram
MSA	Material Storage Area
NYCRR	New York Codes, Rules and Regulations
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
OSHA	Occupational Safety and Health Administration
PAHs	Polycyclic Aromatic Hydrocarbons
PCBs	Polychlorinated Biphenyls
PID	Photoionization Detector
PM-10	Particulate Matter Less Than Ten (10) Micrometers in

Acronym	Definition
	Size
QAPP	Quality Assurance Project Plan
QEP	Qualified Environmental Professional
RECON	Remedial Construction Services, L.P.
RI	Remedial Investigation
SC	Site Characterization
SCO	Soil Cleanup Objectives
SDCMP	Soil/Dust Control and Monitoring Plan
SMP	Site Management Plan
SOP	Site Operations Plans
STCC	Southern Tier Commerce Center
STRA	Short-Term Response Action
SVOCs	Semi-Volatile Organic Compounds
SWPPP	Storm-Water Pollution Prevention Plan
TCLP	Toxicity Characteristic Leaching Procedure
TSCA	Toxic Substances Control Act
VOCs	Volatile Organic Compounds

1.0 BACKGROUND AND SITE DESCRIPTION

On behalf of Unisys Corporation (Unisys), Geosyntec Consultants, Inc. and its New York affiliate B&B Engineers and Geologists of New York, P.C. (collectively Geosyntec) are submitting this Interim Remedial Measure (IRM) #1 Construction Completion Report (CCR) for the Former Sperry Remington Site – North Portion (Site #c808022) (Site) in Elmira, New York.

On 26 April 2016, Unisys applied to enter the Site into the New York State Department of Environmental Conservation (NYSDEC) Brownfields Cleanup Program (BCP) with the consent of Elmira City School District (ECSD). NYSDEC gave an initial determination that the BCP application was complete on 10 June 2016 and received public comments until 22 July 2016. Unisys entered into a Brownfield Cleanup Agreement (BCA) with the NYSDEC on 23 March 2017, to investigate and remediate the Site located in Elmira, Chemung County, New York. The property will be remediated to restricted residential use and will be used as a high school.

The Site is located at the Elmira High School (EHS) property (formerly known as Southside High School), 777 South Main Street in Elmira, Chemung County, New York **Figure 1**. The Site is identified as Section 99 Block [20-1] and Lot [74.2] and Section 99 Block 16 Lot 1.16 on Chemung County Tax Maps. The Site is situated on an approximately 34-acre area bounded by South Main Street to the west, the Southern Tier Commerce Center (STCC) to the south, the Consolidated Rail Corp. property to the east and vacant land to the north. Miller Pond is located approximately one thousand (1,000) feet to the east (see **Figure 1**). The boundaries of the site are fully described in **Appendix A**: Survey Map, Metes and Bounds.

2.0 SUMMARY OF IRM #1

2.1 IRM OBJECTIVES

Unisys was notified in December 2016 of ECSD plans to construct capital improvements at the EHS tennis courts and main parking lot (**Figure 2**) in late Spring 2017. Unisys identified Site soils with concentrations of total polychlorinated biphenyls (PCBs) above screening levels within or adjacent to the planned capital improvements as part of Site Characterization (SC) activities. Surface and shallow subsurface soils, i.e. at depths less than two (2) ft below ground surface (bgs) had detections of total PCBs greater than the Restricted Residential Soil Cleanup Objective (SCO) for total PCBs of one (1) mg/kg. Total PCB concentrations exceeded Toxic Substances Control Act (TSCA) limits of fifty (50) milligrams per kilogram (mg/kg) at some locations and would be considered PCB remediation waste as defined in 40 CFR §761.3 and New York State hazardous waste. A non-emergency IRM for soil removal was proposed to mitigate environmental or human exposures prior to capital improvement construction and is described in the IRM Work Plan submitted to NYSDEC on 5 April 2017 and subsequent revisions on 26 April 2017, 2 June 2017, 27 June 2017 and 11 July 2017. The Revised Final IRM Work Plan dated 11 July 2017 was approved by NYSDEC on 10 August 2017. The IRM Work Plan presented the remedial design for soil removal to meet the following IRM objectives:

- Total PCB concentrations less than or equal to one (1) mg/kg in soils at depths less than two (2) ft bgs;
- Total PCB concentrations less than or equal to ten (10) mg/kg at depths between two (2) ft bgs and the water table; and
- Total PCB concentrations less than or equal to 3.2 mg/kg at the water table where PCB have been detected above groundwater standards.

Excavations were designed for soil removal at the tennis courts (North Excavation) and in and adjacent to the main parking lot (South Excavation). Amendment #1 to the IRM Work Plan dated 11 August 2017 proposed a Short-Term Response Action (STRA) to remove surface soil (0 to 0.5 ft bgs) in the southwest portion of the football field and high jump pit area with detections of total PCBs above the Restricted Residential (SCO) of one (1) mg/kg.

2.2 DESCRIPTION OF IRM #1

The North Excavation and the South Excavation areas of the Site were remediated in accordance with the Revised Final IRM Work Plan dated 11 July 2017 and incorporated Amendment #1 dated 11 August 2017 and Amendment #2 dated 12 September 2017.

The components of the IRM were as follows:

1. Excavation of soil in North Excavation and South Excavation with detections exceeding the IRM objectives presented in section 2.1;

2. Management of excavated soils for transport and off-Site disposal as hazardous or non-hazardous waste or reuse as fill below the soil cover system:
    - Soils with total PCB concentrations less than or equal to ten (10) mg/kg were considered for potential reuse as backfill below two (2) ft bgs;
    - Soils with total PCB concentrations greater than ten (10) mg/kg and less than fifty (50) mg/kg were considered non-hazardous waste; and
    - Soils with total PCB concentrations greater than or equal to fifty (50) mg/kg were considered PCB remediation wastes as defined in TSCA and as hazardous waste containing PCBs as defined in 6 New York Codes, Rules and Regulations (NYCRR) Part 371.4 (e);
3. Backfilling of excavations below a soil cover system with excavated soils approved for reuse or approved imported fill;
4. Construction and maintenance of a soil cover system to prevent human exposure to constituents of potential concern (COPCs) in soil/fill remaining at the Site. The soil cover system consists of a demarcation layer and at least two (2) feet of approved imported fill with asphalt in paved areas and vegetated areas in accordance with ECSD capital improvement plans; and
5. Off-Site transport and disposal of hazardous and non-hazardous soils.

3.0 DESCRIPTION OF REMEDIAL ACTIONS PERFORMED

Remedial activities completed at the Site were conducted in accordance with the NYSDEC-approved Revised Final Interim Remedial Measures #1 Work Plan for the Former Sperry Remington Site - North Portion between June and September 2017. All deviations from the Revised Final Interim Remedial Measures #1 Work Plan and subsequent amendments are noted below. (Section 5.0)

3.1 GOVERNING DOCUMENTS

3.1.1 Site Specific Health & Safety Plan (HASP)

All remedial work performed under this Remedial Action was in full compliance with governmental requirements, including Site and worker safety requirements mandated by Federal Occupational Safety and Health Administration (OSHA).

The HASP was complied with for all remedial and invasive work performed at the Site.

3.1.2 Quality Assurance Project Plan (QAPP)

The QAPP was included as Appendix C of the SC Work Plan approved by the NYSDEC. The QAPP describes the specific policies, objectives, organization, functional activities and quality assurance/ quality control activities designed to achieve the project data quality objectives.

3.1.3 Construction Specifications

Construction specifications were included as Appendix B of the Revised Final IRM #1 Work Plan and describe the scope of work and responsibilities of the IRM Contractor and the Engineer of Record during IRM construction. Specifications sections addressed construction quality assurance, construction quality control, temporary facilities and controls, soils, removal and handling of contaminated soils, excavation support, equipment decontamination, and transportation and off-Site disposal.

3.1.4 Storm-Water Pollution Prevention Plan (SWPPP)

The erosion and sediment controls for all remedial construction were performed in conformance with requirements presented in the New York State Guidelines for Urban Erosion and Sediment Control and the site-specific Storm Water Pollution Prevention Plan submitted on 27 April 2017.

3.1.5 Community Air Monitoring Plan (CAMP)

The Soil/Dust Control and Monitoring Plan (SDCMP) was included as Appendix C of the Revised Final IRM #1 Work Plan and incorporated the New York State Department of Health (NYSDOH) Generic CAMP. The SDCMP described requirements for dust control and the CAMP monitoring approach. Ambient air monitoring was conducted on-Site during IRM activities to monitor potential impacts to the downwind community (potential receptors include the school community, residences, businesses, and workers not directly

involved with IRM activities). The air monitoring program involved real-time monitoring using direct reading instruments. Photoionization Detector (PID) data was also collected to detect for volatile organic compounds. Real-time air monitoring using direct reading instruments was conducted during soil remediation activities whenever Site soils were disturbed or imported soils were handled on Site.

3.1.5.1 CAMP Monitoring Locations

Air monitoring was conducted around the working areas and at designated upwind and downwind locations that varied as a result of daily prevailing wind patterns. One (1) upwind and four (4) downwind locations were used for real-time monitoring. The four (4) downwind locations were equally distributed along the perimeter of the work area. Working areas included the North Excavation, the South Excavation and stockpile areas. During work activities within twenty (20) feet of potentially exposed populations or occupied structures, continuous monitoring locations were selected based on the nearest potentially exposed individual and the location of ventilation system intakes for nearby structures. In those cases, permanent air monitoring locations were installed near ventilation system intakes. If action levels were exceeded at those locations, then the source of the exceedance was evaluated, and the positioning of upwind and downwind monitoring stations were reassessed.

3.1.5.2 CAMP Methods

CAMP monitoring included real-time monitoring for particulate matter less than ten (10) micrometers in size (PM-10) using an aerosol monitor (Thermo Andersen DataRAM 4 or equivalent). The equipment was equipped with an audible alarm to indicate action level exceedance. In addition, fugitive dust migration was visually assessed during all work activities. Particulate concentrations were monitored continuously at upwind and downwind perimeters of the work area at temporary particulate monitoring locations. Monitoring equipment can integrate over a period of fifteen (15) minutes (or less) for comparison to airborne particulate action levels. All readings were recorded, and air monitoring records were maintained electronically. Real-time monitoring data were downloaded at the end of the day.

3.1.5.3 CAMP Action Levels and Response Measures

Downwind PM-10 particulate levels were compared to the background (upwind perimeter) PM-10 particulate level. If the difference between any downwind level and the background level exceeded one hundred (100) micrograms per cubic meter ($\mu g/m^3$) for the fifteen (15) minute averaging period or if airborne dust was visually observed leaving the work area, dust control measures, including increased water spraying, or stopping work were employed. Monitor alarms were set to alert Site personnel if readings reached one hundred (100) $\mu g/m^3$ and dust control measures were implemented. If, after implementing dust suppression techniques, particulate levels above background (upwind) exceed one hundred

fifty (150) µg/m^3, work was suspended, and controls were re-evaluated. Work would resume once dust suppression measures and other controls were successful in reducing downwind particulate levels above background and below one hundred fifty (150) µg/m3 and visible dust migration was not observed. Also, if extreme wind conditions or other weather conditions made dust control ineffective, remedial actions were suspended.

3.1.6 Contractors Site Operations Plans (SOPs)

The Remediation Engineer reviewed all plans and submittals for this remedial project (i.e. those listed above plus contractor and subcontractor submittals) and confirmed that they followed the Revised Final IRM #1 Work Plan.

3.1.7 Community Participation Plan (CPP)

A CPP was included in the SC Work Plan dated October 2014 and has been updated for BCP Remedial Investigation (RI) Work Plan. The following community participation activities were undertaken for IRM#1 and related remedial activities at the Site:

- NYSDEC held a public meeting on 22 May 2017 at the Riverview Holiday Inn in Elmira, New York. NYSDEC, NYSDOH and Unisys presented a review of Site history and previous investigations and plans for construction of IRM #1;
- Copies of the NYSDEC fact sheet were kept on the site and provided to site visitors or people seeking information during the construction activities.

3.2 REMEDIAL PROGRAM ELEMENTS

3.2.1 Contractors and Consultants

Construction activities for IRM #1 were performed by Remedial Construction Services, L.P. (RECON) as the primary IRM contractor with responsibility for all construction activities in accordance with the Revised Final Interim Remedial Measures #1 Work Plan, the Construction Drawings and the Construction Specifications. Surveying services were provided by Hunt Engineers, Architects and Surveyors.

Geosyntec provided Construction Quality Assurance (CQA) services and collected chemical samples in accordance with the QAPP. Aron Krasnopoler of B&B Engineers and Geologists of New York, P.C., a New York Professional Engineer, served as certifying Engineer of Record responsible for inspection of the work. On-Site geotechnical soil testing was carried out by Geosyntec. Geotechnical laboratory soil testing was carried out by Geotechnics. Soil sampling analysis and soil chemical characterization data was provided by Test America Laboratories Inc.

3.2.2 Site Preparation

Prior to mobilization to site it was determined that there was asbestos in the tennis court surface materials and ECSD carried out asbestos abatement and demolition between 1 and 12 May 2017.

The Contractor mobilized to site on 12 June 2017 and began setting up privacy fence and installing silt fencing in the area around the tennis courts. Between 12 and 19 June 2017, the Contractor conducted utility mark outs, installed storm water inlet protection and installation of the base material for the Material Storage Area (MSA). The MSA was located on the STCC property to the south.

NYSDEC gave conditional notice to proceed in a letter dated 16 June 2017. A preconstruction meeting with NYSDEC was held on 20 June 2017 where several issues were identified by NYSDEC that needed to be addressed prior to initiation of excavation activities. Unisys submitted a response letter on 28 June 2017 to address comments presented in the 16 June 2017 Conditional Notice to Proceed and items noted during 19 NYSDEC on-site inspection. NYSDEC provided responses to the 26 June 2017 response to comments letter on 28 June 2017. A Revised Final IRM Work Plan was submitted on 30 June 2017. NYSDEC gave conditional approval on 3 July 2017. Subsequent actions included submittal of (1) revised construction drawings for equipment wash pad and revised specifications for excavation and abandonment of utilities on 7 July 2017; and (2) a Revised Final IRM Work Plan to NYSEC on 11 July 2017. NYSDEC gave conditional approval on 10 August 2017. Documentation of agency approvals required by the IRM #1 Work Plan is included in **Appendix B**.

3.2.3 General Site Controls

3.2.3.1 Site Security

Site security was maintained by perimeter controls in the form of fences with privacy screens and locks. Equipment was kept behind locked security gates and storage areas for contaminated materials and the work areas had physical barriers to restrict access. Visitors were required to check at the project office upon arrival.

3.2.3.2 Job Site Record Keeping

The following records were maintained on site:

- Daily field reports
- Daily truck logs
- Waste manifests
- Storm water inspection reports
- Tailgate safety meetings
- Instrument calibration records

Copies of the daily field reports are provided in **Appendix C**.

3.2.3.3 Erosion and Sedimentation Controls

Erosion and sediment controls were installed and inspected according to the SWPPP and construction drawings. They included, inlet protection, silt fences, silt socks, truck washes

with sump pits and constructed vehicle entrances and exits. Soil stockpiles were covered when not being accessed. Additional details on reducing erosion and sedimentation from soil stockpiles are included in the soil stockpile methods section below (Section 3.2.3.6)

3.2.3.4 Equipment Decontamination and Residual Waste Management

All vehicles and equipment potentially exposed to contaminated material were decontaminated prior to leaving either the Limits of Disturbance (LOD) or MSA. Equipment wash pads were installed and used at each location. Each equipment wash pad was lined with a geotextile and liner to capture solids. Visible debris on the equipment was brushed off manually onto the equipment wash pad and plastic liners were used on the edges of the trucks during loading to reduce contact with impacted material. High pressure water was used to clean the wheels and base of the equipment leaving site. Each equipment wash pad included a lined sump pit with a sump pump. Water from the wash pad was collected in the sump pit and subsequently pumped into a frac tank for storage pending off-Site transport and disposal on a periodic basis during IRM #1 activities.

Dedicated equipment was used for separate excavation and handling of TSCA and non-TSCA soils. Temporary transit roads were constructed over non-TSCA areas for TSCA equipment to move between TSCA excavation areas and the TSCA accumulation area and vice versa. Temporary transit roads were constructed using geotextile fabric. Composite mats were used during wet conditions and for uneven surfaces.

3.2.3.5 Soil Screening

Results of pre-delineation presented in the Revised Final IRM Work Plan were used to determine the limits of excavation and management of soils as hazardous waste, non-hazardous waste, or potential reuse as backfill. Additional confirmation samples were collected during IRM#1 construction. End-point sampling results are discussed in Section 3.4.

Excavations and soil stockpiles were inspected for visual or olfactory impacts, solid waste, bricks or debris. Soil with visible staining or presence of foreign material or soils which had an odor were segregated and sampled. Disposition of the material was based on the results of soil characterization.

3.2.3.6 Stockpile Methods

All stockpiles were maintained to avoid having steep sides or faces. During periods of extended inactivity or prevailing high wind conditions, stockpiles were covered, and the covers were weighted down with sandbags. Stockpiles were not placed within 25 yards of occupied buildings.

Direct loading of non-hazardous soils for off-Site disposal was not feasible because of the acceptance requirements of the receiving facility, including waste characterization and daily volume limits. Stockpiling allowed excavation activities to proceed uninterrupted and avoid schedule delays. Stockpiling on EHS property was not feasible because of i) potential impacts to ECSD construction schedule and activities in the main parking lot ii)

reopening of EHS on 5 September 2017; iii) potential impacts to EHS infrastructure (e.g. football field and athletic fields); iv) planned use of the rear parking lot for staging ECSD construction equipment; and v) a lack of secure areas without the addition of temporary fencing. An MSA was constructed on STCC property to the south of the Site as a secure area for management of soils stockpiled for potential reuse or transport off-Site as non-hazardous waste. This secure area consisted of a fenced in area of approximately 69,000 square feet with gated access.

3.2.3.7 Nuisance controls

All vehicles exiting the LOD or MSA had to pass through the truck wash prior to leaving site. Any dirt or dust tracking on roads leading out of site was cleaned up by brushing down and spraying down the roads. Truck logs were maintained to document when trucks left the EHS property and a corresponding log for trucks arriving at the MSA.

When working on weekends no heavy equipment was operated prior to 0830 to avoid creating noise nuisances

Dust control was carried out by restricting vehicle speeds, and spraying water using fine atomized sprays. A direct spray was also used in order to clean off trucks and equipment or wet down materials depending on wind and soil conditions. Construction excavators were slowly unloaded and drop heights from the loader buckets were minimized. Trucks were staged within the LOD as far as possible. Trucks were not allowed to idle more than five (5) minutes. Vehicle speeds were restricted to no more than ten (10) miles per hour (mph) while onsite. Vehicle staging areas were restricted to immediately adjacent to the construction areas and not on public roads. All haul trucks were covered with tarps prior to transporting soil to or from site.

During excavation of the North Excavation, haul trucks were used to transport material to the MSA using South Main street. Trucks were diapered during loading, cleaned of any loose material after loading and excavated material was wetted and tarped prior to the trucks leaving site. A flagging system was established to regulate movement of trucks into and out of site. Trucks were routed out of EHS property onto South Main Street via a truck wash constructed as per design specifications submitted on 7 July 2017.

During excavation of the South Excavation and the STRA, haul trucks were used to transport material to the MSA via a temporary haul road constructed to avoid accessing South Main Street.

3.2.4 CAMP Results

Air monitoring was implemented in accordance with the SDCMP. Dust monitors were installed on site around areas of activity and sampling was carried out throughout the day. Meters were set to trigger alarms if instantaneous point values of readings exceeded action levels. This would allow adequate response time to bring about necessary dust suppression activities. **Table 1** summarizes the observed exceedances above the dust monitoring action levels of one hundred (100) $\mu g/m^3$ for dust control measures and one hundred fifty (150)

µg/m^3 for work suspension. The dust monitoring action level of 150 µg/m^{3}was exceeded on four (4) occasions and exceedances were addressed as follows:

- A high reading of 742.69 µg/m^3 at the northeast corner of the North Excavation on 8 July 2017 was associated with cutting asphalt in area by others. Work was stopped, water sprayed, and continuous water was sprayed during remaining cutting. Subsequent readings were below 100 µg/m^3;
- A high reading of 325.95 µg/m^3 at the northeast downwind corner of the South Excavation at 1:35 PM on 9 August 2017 was associated with truck movement on the temporary haul near the dust monitor. Water was sprayed and readings went down. Subsequent readings were below 100 µg/m^3;
- A high reading of 151.17 µg/m^3 at the northeast downwind corner of the South Excavation at 3:50 PM on 9 August 2017 was associated with truck movement on the temporary haul road near the dust monitor. Work was stopped and water was sprayed. The dust monitor was recalibrated, and subsequent readings were below 100 µg/m3; and
- A high reading of 205.34 µg/m^3 at the northwest corner of the South Excavation on 9 August 2017 was associated with dumping topsoil next to monitor. The monitor was calibrated and unloading activities were shifted away from perimeter of fence and subsequent readings were below 100 µg/m^3.

Copies of all field data sheets relating to the CAMP are provided in electronic format in **Appendix D**.

3.2.5 Reporting

Daily field reports were generated by the Engineer's representative on site for review by the Engineer. Reports included summaries of work progress, inspections carried out, material movement and site visitors. Construction photographs were also included with reports. Copies of daily field reports are included in electronic format in **Appendix C**.

3.3 SOIL REMOVAL

3.3.1 Monitoring Well Decommissioning

In preparation for excavation, monitoring wells MW-15S and MW-15D, located west of the EHS A-Wing as depicted on **Figure 4**, were abandoned in accordance with NYSDEC Policy CP-43. Well abandonment forms are included in **Appendix E**. Monitoring well MW-15S will be replaced following IRM completion. Unisys will submit plans to update the Site groundwater monitoring network as part of continuing Site investigations under the BCP after completion of the IRM. The need for replacement of monitoring well MW-15D will be evaluated at that time. Monitoring well locations are shown on the as-built drawings included as **Appendix F**.

3.3.2 Excavation Details

Soils were excavated from the North Excavation (tennis courts), South Excavation (main parking lot) and the STRA area in the southwest portion of the football field in accordance with the Revised Final Interim Remedial Measures #1 Work Plan, Amendment #1 and design changes noted in Section 3.9 of this report. Approximately 2,280 cubic yards of soil was removed from the North Excavation to a minimum depth of two (2) feet bgs between 19 June and 11 July 2017 following tennis court demolition and asbestos abatement by ECSD.

Approximately 4,340 cubic yards of soil was removed from the South Excavation between 10 July and 3 August 2017. As communicated to NYSDEC on 13 July 2017, IRM construction in the South Excavation (i.e., main parking lot) was limited to excavation to four (4) feet below ground surface (ft bgs) in the main parking lot and to two (2) ft bgs in areas to the east due to accommodate the schedule for ECSD capital improvements.

Approximately 185 cubic yards of soil was removed from the STRA area inside the track to a minimum depth of approximately six (6) inches bgs between 15 and 23 August 2017. To avoid damaging the track surface encircling the football field, material within the football field was excavated using a mini-excavator and a pick-up size dump truck was used to move material to the MSA. Crane mats underlain by geotextile were placed across the track surface to allow vehicular movement across the track. As-built drawings of the excavations are included in **Appendix F**. As excavation did not reach level of subsurface utilities no utilities were abandoned during the remedial activity.

Cut and fill thicknesses based on as-built surveys are included on the As-Built Drawings presented in **Appendix F**.

3.3.3 Disposal Details

Table 2 provides the total quantities of each category of material removed from the Site and subsequent disposal locations.

Correspondence from Applicants to disposal facility owners and acceptance letters from disposal facility owners are provided in **Appendix G**.

Manifests and bills of lading are included in electronic format in **Appendix H.**

3.3.3.1 Hazardous Waste

Soils with total PCB concentrations greater than or equal to fifty (50) mg/kg are classified as PCB remediation waste under TSCA and as hazardous waste containing PCBs as defined in 6 NYCRR Part 371.4 (e). Soils classified as hazardous waste were staged within the LOD on poly sheeting for no more than one (1) day and loaded for off-Site disposal at an appropriate treatment storage and/or disposal facility. Loading occurred between 19 July 2017 and 27 July 2017. A total of sixty-one (61) truckloads, (approximately 1350 tons) of material were direct loaded and sent to Wayne Disposal, Inc. Site #2 landfill located at 49350 N I 94 Service Drive, Belleville MI 48111. Each shipment had the required

manifest, labeling and placarding in accordance with Federal and State regulations. Manifests are provided in electronic format in **Appendix H**.

3.3.3.2 Non-hazardous Waste

Soils with total PCB concentrations greater than ten (10) mg/kg and less than fifty (50) mg/kg were stockpiled in the MSA and staged for disposal as non-hazardous waste. Stockpiled soils were sampled for waste characterization in accordance with the requirements of the receiving facility, Ontario Landfill in Stanley, New York. Analyses included PCBs and toxicity characteristic leaching procedure (TCLP) analyses for volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), and metals. Analytical data packages were submitted to the facility operator, Casella Waste Systems to develop waste profiles. **Table 3** presents a summary of PCB and TCLP analytical results for waste characterization, respectively.

A total of eighty-six (86) truckloads (approximately 2580 tons) of non-hazardous material was sent offsite to the Ontario Landfill in Stanley New York. Each shipment had the required manifest, labeling and placarding in accordance with Federal and State regulations. Manifests are provided in electronic format in **Appendix H**.

3.3.3.3 Contact Water

Contact water generated from the collection of wash water from the equipment wash pads and stormwater that accumulated in excavations was stored in frac tanks maintained for this purpose. Some contact water was generated when an existing pipe was damaged within the southern excavation and had to be repaired. The water generated was pumped into a storage tote pending disposal. Samples to characterize these waters for disposal were collected and analyzed pursuant to receiving facility frequency and parameter requirements prior to shipping off-Site. A summary of analytical results is included in **Table 4**.

Based on the results of the characterization the material was transported offsite for disposal at the Spring Grover Resource Recovery, Inc. facility in Cincinnati, Ohio.

3.4 ON-SITE REUSE

Excavated soils with total PCB concentrations less than or equal to ten (10) mg/kg were stockpiled in the MSA for potential reuse as backfill below two (2) ft bgs in accordance with Section 5.4 of DER-10. Soils were stockpiled in windrows and sampled with a frequency of approximately one composite sample for every one hundred (100) cubic yards in volume. Soils were analyzed for PCBs, metals, SVOCs, and VOCs at the frequency presented in Table 5.4 (e) 10 of DER-10. Each windrow to be tested for potential reuse was inspected by the Qualified Environmental Professional (QEP) for visual or olfactory impacts, solid waste, bricks or debris and screened with a PID for elevated VOC vapor levels. PID screening was used to select locations within the windrow to sample for VOC analyses. Analytical data packages were validated in accordance with the QAPP/Field Sampling Plan (FSP) for usability. **Table 5** presents a summary of total constituent analytical results for potential reuse. Analytical results were compared to allowable constituent levels presented in Appendix 5 of DER-10. Request to Import Forms were

submitted to NYSDEC for approval to reuse these soils as backfill below soil cover, i.e. two (2) feet bgs and approved. The average total PCB concentration for soils approved for reuse was 1.83 mg/kg. PAHs in soils approved for reuse are benz(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, indeno(1,2,3-c,d)pyrene, and dibenz-(a,h)anthracene with average concentrations of 0.77, 0.72, 0.86, 0.61, and 0.17 mg/kg, respectively. The average mercury concentration is soils approved for reuse was 0.21 mg/kg. NYSDEC Request to Import Forms and NYSDEC approvals are included in **Appendix I**.

Approximately five hundred (500) cubic yards of reuse material was used to backfill the 2-4 ft bgs interval of the South Excavation in the Main Parking Lot. Soils used for backfilling met the requirements of Section 5.4 of DER-10 for use below a soil cover system over a demarcation layer. Stockpiled soils approved for reuse were not used for backfilling above two (2) ft bgs. The extent of reuse material and the elevation of the reuse surface are shown on the As-Built Drawings (**Appendix F**). Prior to backfilling, a demarcation layer, consisting of orange snow fencing material and geotextile fabric, was placed in the excavation to provide a visual reference of the limit of fill material for future excavations. Backfill material was compacted in accordance with construction specifications and compaction testing was conducted by the QEP to document achievement of compaction density. Compaction test results are presented in **Appendix J**. Orange netting and geotextile fabric was placed as a demarcation layer on top of the reuse material. The extent of the demarcation layer is shown on the As-Built Drawings (**Appendix F**).

3.5 REMEDIAL PERFORMANCE/DOCUMENTATION SAMPLING

End-point sampling to demonstrate that IRM#1 cleanup objectives were achieved and document constituents of potential concern (COPCs) remaining was carried out by combining results from soil characterization activities (pre-delineation) and collecting post-excavation side wall and bottom samples. Pre-delineation sampling of excavation side walls and bottoms was conducted in accordance with Section 5.4 (b) of DER-10 and the approved IRM Work Plan:

- one sample from the bottom of each sidewall for every thirty (30) linear feet of sidewall; and
- one sample from the excavation bottom for every nine hundred (900) square feet of bottom area.

IRM construction in 2017 removed soils to a depth of two (2) ft bgs in the North Excavation and South Excavation as shown on **Figures 3** and **4**, respectively. Soils were removed to a depth of four (4) ft bgs in a portion of the main parking lot as part of the South Excavation as shown in **Figure 5**. Surface soils were removed to a depth of six (6) inches bgs from the football field as part of the STRA as shown in **Figure 6**. Backfilling occurred after as-built surveys verified that excavations had achieved target depths. Confirmatory samples were collected in areas where pre-delineation was incomplete.

SC data were used to document the limits of excavation and the limits of PCB remediation waste within the excavations as shown on **Figures 3**, **4**, **5**, and **6**. Excavation side walls were documented by samples collected with a maximum spacing of thirty (30) ft where not constrained by EHS infrastructure that was not scheduled for capital improvements in 2017 (e.g., building foundation, running track) and presented in the Revised Final IRM Work Plan approved by NYSDEC. **Table 6** presents the total PCB concentration and sample recovery of documentation and confirmation samples for achievement of cleanup goals. Bottom areas for the excavations are shown on **Figures 3**, **4**, **5**, and **6** and are presented on **Table 7**. The number of bottom samples was discussed with NYSDEC and presented in the revised Final IRM Work Plan approved by NYSDEC.

In areas where documentation sampling was incomplete, post-excavation sidewall and bottom wall samples were collected in accordance with Section 5.4 (b) of DER-10 or as requested by NYSDEC. Confirmation samples were analyzed for PCBs in accordance with the SC Work Plan QAPP.

- One post-excavation sample (SSHS-NE SIDEWALL S1) was collected at 0-2 ft bgs on the north side of the North Excavation and analyzed for PCBs to address the gap between pre-delineation samples SSHS-B400 and SSHS-B779.

- One post-excavation sample (SSHS-SE SIDEWALL 1) was collected at 0-2 ft bgs in the South Excavation along the edge of the track to address the gap between pre-delineation samples SSHS-B619 and SSHS-B620. Additional samples were collected based on visual or olfactory observations or field screening during excavation.

- Three post-excavation bottom samples (SE BTM WALL 1, SE BTM WALL 2 and SE BTM WALL 3) at 2 ft bgs due to the observation of discolored soils and analyzed for PCBs.

Documentation and confirmation sample locations are shown on the as-built drawings provided in **Appendix F**. Pre-delineation samples SSHS-B464, SSHS-B253, and SSHS-B249 were used to define the proposed western limit of the 0-2 ft interval of the South Excavation; however, the as-built limit of excavation extended further to the west in order to connect to the 2-4 ft excavation (**Figure 4**); therefore, SSHS-B464, SSHS-B253, and SSHS-B249 were removed by the excavation. The western limit of the 0-2 ft interval was bounded by pre-delineation samples SSHS-B634, SSHS-B827 and SSHS-B632C. Those samples were located within the footprint of the 4-ft excavation and were also removed by excavation.

Analytical and data validation reports for pre-delineation samples were presented in the Revised Final IRM #1 Work Plan. Analytical reports and data validation reports for post-excavation confirmation samples are presented in **Appendix K** and **Appendix L**, respectively.

3.6 IMPORTED BACKFILL

Imported fill included soils used for excavation backfill and as a base layer for temporary haul roads, equipment wash pads, the MSA as well as aggregate materials for temporary hauls roads and equipment wash pads. The source of imported fill was Brewer's Pit (NYSDEC Facility ID 8-0734-00150), located in Horseheads, New York. Imported topsoil was used to establish vegetative cover. The source of imported topsoil was Breesport Pit (NYSDEC Mine ID 80024), located in Breesport, New York.

Imported fill was tested in accordance with the requirements of Section 5.4 of DER-10. Imported topsoil was sampled and analyzed for VOCs, SVOCs, PCBs, pesticides, metals, hexavalent chromium, trivalent chromium and cyanide. Analytical data packages were validated in accordance with the QAPP/FSP for usability. Analytical results were compared to allowable constituent levels presented in Appendix 5 of DER-10 and Request to Import Forms were submitted to NYSDEC for approval. Copies of NYSDEC Request to Import forms and approvals are provided in **Appendix I**. Imported fill used for backfilling included:

- Approximately 5,683 tons of imported soil used to backfill the North Excavation;
- Approximately 5,896 tons of imported soil used to backfill the South Excavation;
- Approximately 845 tons of imported topsoil to backfill the South Excavation; and
- Approximately 320 tons of imported topsoil to backfill the STRA area.

Tables summarizing chemical analytical results for backfill and topsoil, in comparison to allowable levels, are provided in **Tables 8A** and **8B,** respectively. Locations where backfill was used at the site are shown on the As-Built Drawing provided as **Appendix F**.

Backfill material was compacted in accordance with construction specifications and compaction testing was conducted by the QEP to document achievement of compaction density. Compaction test results are presented in **Appendix J**. Reuse material was also separated from overlying imported fill by geotextile fabric. Excavations were backfilled to final grades as shown on the As-Built Drawings (**Appendix F**).

3.7 SOILS REMAINING AT THE SITE ABOVE SCOS

IRM construction in the South Excavation (i.e., main parking lot) was limited to excavation to four (4) ft bgs in the main parking lot and to two (2) ft bgs in areas to the east due to accommodate the schedule for ECSD capital improvements. The balance of the South Excavation will be completed in accordance with the IRM Work Plan at a later date.

PCBs and other COPCs remain in soil below two (2) ft bgs (i.e. below the soil cover system) above SCOs as shown on **Figures 3 to 14**. **Tables 9A** through **9D** summarize analytical data for PCBs and other COPCs that remain in soils within the design footprint of IRM #1 after completion of IRM #1 activities.

Figures 6 to **12** show the sample locations and results for total PCBs not excavated during IRM #1 by 2-ft interval. These areas include:

North Excavation (Tennis Courts)

- 0 - 2 ft bgs: Sidewall sample NE-Sidewall S1 (NS-6) with total PCB concentration of 6.27 mg/kg along the northern sidewall of the excavation. The sample location is beneath the north service road and currently covered by asphalt. A final remedy for the area north of the tennis courts will be determined after completion of the BCP RI.

Southern Excavation (Main Parking lot)

- 0 - 2 ft bgs: Soils with detections of total PCBs greater than one (1) mg/kg remain in place at the limit of IRM #1 construction to the east and adjacent to the running track. As approved, IRM #1 addressed ECSD capital improvement areas in the main parking lot and adjacent sidewalks. Disturbance of other EHS infrastructure (e.g. the running track, sidewalks) was limited to the extent possible. Three (3) bottom samples were collected based on field observations (**Figure 4**). Total PCB concentrations detected in samples SE BTM WALL 1, SE BTM WALL 2, and SE BTM WALL 3 ranged from 5.19 to 56.5 mg/kg (see **Table 9B**). These results are consistent with historic data for the 4 to 6 ft bgs interval (**Figure 7**). As shown in **Figure 7**, areas that could not be excavated during IRM #1 due to ECSD capital improvement scheduling constraints will be addressed by future IRMs at the Site.

- 2 - 4 ft bgs: To accommodate ECSD's capital improvement schedule, excavation at this depth was limited to areas within the main parking lot (**Figure 5**). As a result, total PCBs in soil greater than ten (10) mg/kg remain in place east of the main parking lot. Total PCBs remain in place at the bottom of the excavation as indicated by pre-delineation bottom samples collected at 4 to 6 ft bgs (SSHS-B633, SSHS-B679, SSHS-B696 and SSHS-B697) with total PCB concentrations ranging from 0.0021 to 4.6 mg/kg (a field duplicate sample was collected at SSHS-B633 with a detection of total PCBs of 10.47 mg/kg). As shown in **Figure 7**, areas that could not excavated during IRM #1 due to ECSD capital improvement scheduling constraints will be addressed by future IRMs at the Site.

- 4 -16 ft bgs: IRM construction in the South Excavation (i.e., main parking lot) was limited to excavation to four (4) feet below ground surface (ft bgs) in the main parking lot and to two (2) ft bgs in areas to the east due to accommodate the schedule for ECSD capital improvements. As shown in **Figures 7** to **13**, areas that could not excavated during IRM #1 due to ECSD capital improvement scheduling constraints will be addressed by future IRMs at the Site.

Additional COPCs were detected during SC activities and previous investigations in soils remaining below the soil cover system after IRM #1 as presented in **Table 9D.** These data are also presented on **Figure 14** and summarized below:

- SSHS-B70 located south of the athletic stand:
    - Detections of PAHs, benz(a)anthracene, benzo(a) pyrene, benzo(b)fluoranthene, chrysene, and indeno(1,2,3-c,d)pyrene above Restricted Residential SCOs at 2 to 6 ft bgs; and
    - Detections of PAHs, benz(a)anthracene, benzo(a) pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, dibenz(a,h)anthracene, and indeno(1,2,3-c,d)pyrene above Restricted Residential SCOs at 6 to 10 ft bgs;
- SSHS-B15 located west of A-Wing:
    - Detections of PAHs, benzo(a) pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, dibenz(a,h)anthracene, and indeno(1,2,3-c,d)pyrene, above Restricted Residential SCOs at 4 to 5 ft bgs; and
- SSHS-B8 located south of the football field:
    - Detection of barium of 426 mg/kg at 4 to 5 ft bgs, above the Restricted Residential SCO of 350 mg/kg.; and

Engineering and Institutional Controls (ECs/ICs) are required to recognize remaining in-place soil conditions to protect human health and the environment. These ECs/ICs are described in the following sections. Long-term management of these EC/ICs and residual COPCs will be performed under an interim Site Management Plan (SMP), subject to approval by NYSDEC.

3.8 ENGINEERING CONTROLS

3.8.1 Soil Cover System

Exposure to COPCs in soil/fill at the site is prevented by a protective soil cover system placed over the site. This cover system is comprised of a minimum of twenty-four (24) inches of imported material overlain by asphalt, concrete pavement/ slab for tennis courts, or vegetative cover. Unpaved areas were restored with a minimum of four (4) inches of topsoil and reseeded based on original conditions. A demarcation layer in the form of an orange netting and geotextile fabric was placed prior to backfilling with clean fill material used for the cover system. **Figure 15** provides an as-built cross section of the IRM #1 soil cover system. The interim SMP will include an Excavation Work Plan which outlines required procedures in the event the cover system and/or underlying residual contamination are disturbed. This Excavation Work Plan will be provided in the interim SMP, subject to approval by NYSDEC.

3.8.2 Other Engineering Controls

IRM #1 did not require the construction of any new engineering control systems. Other engineering controls at the Site are described in the interim SMP.

3.9 INSTITUTIONAL CONTROLS

A series of ICs have been developed to: (1) implement, maintain and monitor EC systems; and (2) prevent future exposure to COPCs present in media at the Site. Adherence to these ICs will be implemented under the interim SMP. ECSD has agreed to accept an Environmental Easement on the property as part of the Site remedy since the IRM includes a cover system (**Appendix M**).

3.10 DEVIATIONS FROM IRM WORK PLAN

3.10.1 Modification of Proposed Limits of Excavation – Low-Recovery Re-Sampling

Amendment #1 to the SC Work Plan was submitted to NYSDEC on 7 July 2017 to provide a plan to address pre-delineation sample recovery in boring intervals characterized by recoveries of less than 50% of potentially available lithology. Geosyntec mobilized on 10 July 2017 to re-collect soil samples for PCB analyses from identified sample intervals using Direct Push Technology (DPT) in accordance with the SC Work Plan's QAPP/FSP. For sample intervals where sample recovery was less than 50% an off-set DPT boring was advanced. Analytical results and sample recoveries were presented to NYSDEC on 18 July 2017 with design modifications to the proposed limits of excavation. With NYSDEC approval, survey control points were provided to the IRM contractor.

3.10.2 Modification Of Proposed Limits Of Excavation/Long-Term MSA Stabilization

As communicated to NYSDEC on 13 July 2017, IRM construction in the South Excavation (i.e., main parking lot) was limited to excavation to four (4) feet below ground surface (ft bgs) in the main parking lot and to two (2) ft bgs in areas to the east to accommodate the schedule for ECSD capital improvements. The balance of the South Excavation will be completed in accordance with the IRM Work Plan at a later date. As a result, the volume of stockpiled soils that are suitable for reuse as backfill below two (2) feet bgs was expected to exceed the volume of backfill required. Amendment #1 to the Revised Final IRM Work Plan was submitted on 11 August to modify the MSA at the STCC property to the south of the Site for long-term management prior to reuse.

3.10.3 Modification of North Excavation Confirmation Sampling

The northern sidewall of the North Excavation extended to the north of pre-delineation samples with total PCB concentrations greater than 1 mg/kg into the service road. The as-built sidewall length between pre-delineation sidewall samples SSHS-B400 (NS-5) and SSHS-B779 (NS-7) was 197.4 feet. One post-excavation sidewall sample SSHS-NE SIDEWALL S1 (NS-6) between those samples was collected in consultation with NYSDEC. In addition, the as-built distance between pre-delineation sidewall samples

SSHS-B596 (NS-25) and SSHS-B767 (NS-26) was 81.8 feet. No post-excavation sidewall sample was collected between those samples. These are noted as deviations of the requirement to collect samples at a maximum spacing of 30 feet. The IRM was focused on soil removal in coordination with ECSD capital improvements at the tennis courts. The area north of the tennis courts will be characterized during the BCP RI.

As shown on **Figure 3**, the as-built extent of the North Excavation was greater than the design extent by 4,790 square feet. Thirty-seven (37) pre-delineation are used as bottom samples for a sampling frequency of one per 1,068 square feet. This is noted as a deviation of the requirement to collect one sample per 900 square feet of bottom area. Total PCB concentrations of all bottom samples are below the subsurface cleanup goal of ten (10) mg/kg. The number of bottom samples were discussed with NYSDEC and presented in the revised Final IRM Work Plan approved by NYSDEC.

3.11 PROBLEMS ENCOUNTERED

The following problems were encountered during IRM #1 construction:

- On 23 July 2017, an undocumented one (1) inch diameter PVC water pipe was encountered in the South Excavation. The pipe was repaired, and water released into the excavation was containerized for off-Site disposal; and
- On 22 August 2017, a break in an electrical line that provides electrical power to the athletic field was traced to the Northern Excavation. The break was located and repaired the same day.

TABLES

Table 1
Summary of CAMP Dust Monitoring Exceedances

Former Sperry Remington Site - North Portion
Elmira, New York

Monitoring Station	Record Date	Record Time	Dust Reading[1,2] (ug/m^3)	Action Taken
DW NW FENCE	6/29/2017	10:09 AM	100.98	Implemented Dust Control Measures
2535 UW S TENNIS COURT	6/29/2017	4:00 PM	112.82	Implemented Dust Control Measures
2980 DW NE CORNER	6/30/2017	4:50 AM	108.96	Implemented Dust Control Measures
2980 DW NE CORNER	6/30/2017	5:05 AM	111.05	Implemented Dust Control Measures
2980 DW NE CORNER	6/30/2017	5:20 AM	111.49	Implemented Dust Control Measures
2980 DW NE CORNER	6/30/2017	5:35 AM	114.21	Implemented Dust Control Measures
2980 DW NE CORNER	6/30/2017	5:50 AM	117.74	Implemented Dust Control Measures
2980 DW NE CORNER	6/30/2017	6:05 AM	119.67	Implemented Dust Control Measures
2980 DW NE CORNER	6/30/2017	6:20 AM	122.45	Implemented Dust Control Measures
2980 DW NE CORNER	6/30/2017	6:35 AM	126.01	Implemented Dust Control Measures
2980 DW NE CORNER	6/30/2017	6:50 AM	133.62	Implemented Dust Control Measures
2980 DW NE CORNER	6/30/2017	7:05 AM	128.28	Implemented Dust Control Measures
801 DW NE CORNER	7/8/2017	10:57 AM	742.69	High reading caused by cutting asphalt in area. Work was stopped, dust control measures were implemented including water sprayed during remaining cutting. Readings subsequently stayed below 100ug/m3.
1422 DW NE FENCE	7/26/2017	1:31 PM	104.53	Implemented Dust Control Measures
1422 DW NE FENCE	7/31/2017	1:35 PM	151.17	High readings associated with truck movement on Road next to dust monitor. Work was stopped and dust control measures were implements including water spraying.
1422 DW NE FENCE	7/31/2017	3:50 PM	325.95	High reading was associated with truck movement on road near dust monitor. Work was stopped, dust control measures were implemented including water spraying. Dust monitor was recalibrated and readings subsequently stayed below 100ug/m3.
1421 DW NW CORNER	8/9/2017	4:17 PM	205.34	High reading associated with unloading of topsoil next to monitor. Monitor was recalibrated and unloading was shifted away from perimeter of fence.

Notes:

1 Difference between downwind measurement and background level

2 Only dust readings that exceeded the action levels for dust control (100 ug/m^3) and for work suspsension (150 ug/m^3) are shown.

ug/m^3 micrograms per cubic meter

Table 2
Summary of Waste Disposal

Former Sperry Remington Site - North Portion
Elmira, New York

MATERIAL	TRANSPORTER	DESTINATION	LOCATION	UNIT	TOTAL
Hazardous Waste (PCBs)	U.S. Bulk, Page ETC	Wayne Disposal	Belleville, MI	Tons	1,350.00
Non-Hazardous Waste	Ricelli	Ontario Landfill	Stanley, NY	Tons	2,580.00
Contact Water	Clean Harbors Environmetal Services, Inc.	Spring Grover Resource Recovery, Inc	Cincinnati, OH	Gallons	2,240

TABLE 3
Summary of Windrow Analytical Results - Waste Characterization

Former Sperry Remington Site - North Portion
Elmira, New York

				Windrow 8 Section 5		Windrow 8 Section 6		Windrow 9 Section 2		Windrow 9 Section 3		Windrow 9 Section 4	
			Sample ID	W8, S5, A 08.02.17	W8, S5, C 08.02.17	W8, S6, A 08.02.17	W8, S6, C 08.02.17	W9, S2, A 072417	W9, S2, C 072417	W9, S3, A 072417	W9, S3, C 072417	W9, S4, A 072417	W9, S4, C 072417
			Sampled Date	8/2/2017	8/2/2017	8/2/2017	8/2/2017	7/24/2017	7/24/2017	7/24/2017	7/24/2017	7/24/2017	7/24/2017
Chemcial Name	**Units**	**EQL**	**RCRA Hazardous Waste**										
TCLP SVOCs													
1,4-dichlorobenzene	µg/L	4.6	**7500**	-	<4.6U	-	<4.6U	-	<4.6U	-	<4.6U	-	<4.6U
2,4,5-trichlorophenol	µg/L	7.9	**400000**	-	<7.9U	-	<7.9U	-	<7.9U	-	<7.9U	-	<7.9U
2,4,6-trichlorophenol	µg/L	9.7	**2000**	-	<9.7U	-	<9.7U	-	<9.7U	-	<9.7U	-	<9.7U
2,4-Dinitrotoluene	µg/L	7.8	**30130**	-	<7.8U	-	<7.8U	-	<7.8U	-	<7.8U	-	<7.8U
2-methylphenol	µg/L	4.3	**4200000**	-	<4.3U	-	<4.3U	-	<4.3U	-	<4.3U	-	<4.3U
4-methylphenol	mg/L	0.0083	**4200**	-	<0.008U	-	<0.008U	-	<0.008U	-	<0.008U	-	<0.008U
Hexachlorobenzene	µg/L	5.8	**30130**	-	<5.8U	-	<5.8U	-	<5.8U	-	<5.8U	-	<5.8U
Hexachlorobutadiene	µg/L	8.2	**500**	-	<8.2U	-	<8.2U	-	<8.2U	-	<8.2U	-	<8.2U
Hexachloroethane	µg/L	4.2	**3000**	-	<4.2U	-	<4.2U	-	<4.2U	-	<4.2U	-	<4.2U
Nitrobenzene	µg/L	12	**2000**	-	<12U	-	<12U	-	<12U	-	<12U	-	<12U
Pentachlorophenol	µg/L	7.8	**100000**	-	<7.8U	-	<7.8U	-	<7.8U	-	<7.8U	-	<7.8U
Pyridine	µg/L	8.6	**35000**	-	<8.6U	-	<8.6U	-	<8.6U	-	<8.6U	-	<8.6U
TCLP Metals													
Arsenic	mg/L	0.041	**5**	-	<0.041U	-	<0.041U	-	<0.041U	-	<0.041U	-	<0.041U
Barium	mg/L	2	**100**	-	0.82J	-	0.68J	-	0.84J,B	-	0.9J,B	-	1.2J,B
Cadmium	mg/L	0.0016	**1**	-	<0.002U	-	<0.002U	-	0.002J	-	<0.002U	-	0.003J
Chromium (III+VI)	mg/L	0.0078	**5**	-	<0.008U	-	<0.008U	-	<0.008U	-	<0.008U	-	<0.008U
Lead	mg/L	0.029	**5**	-	<0.029U	-	<0.029U	-	<0.029U	-	<0.029U	-	<0.029U
Selenium	mg/L	0.036	**1**	-	<0.036U	-	<0.036U	-	<0.036U	-	<0.036U	-	<0.036U
Silver	mg/L	0.0085	**5**	-	<0.009U	-	<0.009U	-	<0.009U	-	<0.009U	-	<0.009U
Mercury	mg/L	0.000065	**0.2**	-	<0U	-	<0U	-	<0U	-	<0U	-	<0U
TCLP VOCs													
1,1-dichloroethene	µg/L	110	**700**	<110U	-	<110U	-	<110U	-	<110U	-	<110U	-
1,2-dichloroethane	µg/L	58	**500**	<58U	-	<58U	-	<58U	-	<58U	-	<58U	-
Methyl Ethyl Ketone	µg/L	120	**200000**	<120U	-	<120U	-	<120U	-	<120U	-	<120U	-
Benzene	µg/L	79	**500**	<79U	-	<79U	-	<79U	-	<79U	-	<79U	-
Carbon tetrachloride	µg/L	130	**500**	<130U	-	<130U	-	<130U	-	<130U	-	<130U	-
Chlorobenzene	µg/L	63	**100000**	<63U	-	<63U	-	<63U	-	<63U	-	<63U	-
Chloroform	µg/L	85	**6000**	<85U,*	-	<85U,*	-	<85U,*	-	<85U,*	-	<85U,*	-
Trichloroethene	µg/L	60	**500**	<60U	-	<60U	-	<60U	-	<60U	-	<60U	-
Tetrachloroethene	µg/L	80	**700**	<80U	-	<80U	-	<80U	-	<80U	-	<80U	-
Vinyl chloride	µg/L	150	**200**	<150U	-	<150U	-	<150U	-	<150U	-	<150U	-
PCBs			**NYS Hazardous Waste**										
Arochlor 1016	mg/kg	0.0092			<0.01U		<0.011U		<0.0096U		<0.012U		<0.011U
Arochlor 1221	mg/kg	0.009			<0.01U		<0.011U		<0.0094U		<0.011U		<0.01U
Arochlor 1232	mg/kg	0.0069			<0.0078U		<0.0081U		<0.0072U		<0.0088U		<0.0079U
Arochlor 1242	mg/kg	0.014			<0.016U		<0.016U		<0.014U		<0.018U		<0.016U
Arochlor 1248	mg/kg	0.017			1.7		3		0.34		0.64		2.6
Arochlor 1254	mg/kg	0.017			1.1		1.6		0.11		0.22		0.9
Arochlor 1260	mg/kg	0.012			0.16		0.24		0.016J		0.022		0.067
Arochlor 1268	mg/kg	0.0053			<0.006U		<0.0062U		<0.0055U		<0.0068U		<0.0061U
Arochlor 1262	mg/kg	0.012			<0.014U		<0.015U		<0.013U		<0.016U		<0.014U
Total PCBs	mg/kg		**50**		2.992		4.874		0.4954		0.9183		3.6

Notes

µg/L	micrograms per Liter
mg/L	milligrams per Liter
mg/kg	milligrams per kilogram
*	LCS or LCSD is outside acceptance limits
TCLP	Toxicity Characteristic Leaching Procedure
RCRA Hazardous Waste	40 CFR Part 261 subpart C
NYS Hazardous Waste	6 NYCRR Part 371.4 (e))

TABLE 3
Summary of Windrow Analytical Results - Waste Characterization

Former Sperry Remington Site - North Portion
Elmira, New York

				Windrow 9 Section 5		Windrow Between 1-2 Section 3		Windrow Between 1-2 Section 4		Windrow Between 1-2 Section 1		Windrow Between 1-2 Section 1	
			Sample ID	W9, S5, A 08.01.17	W9, S5, C 08.01.17	WB 1-2, S3, A 08.04.17	WB 1-2, S3, C 08.04.17	WB 1-2, S4, A 08.04.17	WB 1-2, S4, C 08.04.17	WB1-2, S1, A 08.02.17	WB1-2, S1, C 08.02.17	WB1-2, S2, A 08.02.17	WB1-2, S2, C 08.02.17
			Sampled Date	8/1/2017	8/1/2017	8/4/2017	8/4/2017	8/4/2017	8/4/2017	8/2/2017	8/2/2017	8/2/2017	8/2/2017
Chemcial Name	**Units**	**EQL**	**RCRA Hazardous Waste**										
TCLP SVOCs													
1,4-dichlorobenzene	µg/L	4.6	**7500**	-	<4.6U	-	<4.6U	-	<4.6U	-	<4.6U	-	<4.6U
2,4,5-trichlorophenol	µg/L	7.9	**400000**	-	<7.9U	-	<7.9U	-	<7.9U	-	<7.9U	-	<7.9U
2,4,6-trichlorophenol	µg/L	9.7	**2000**	-	<9.7U	-	<9.7U	-	<9.7U	-	<9.7U	-	<9.7U
2,4-Dinitrotoluene	µg/L	7.8	**30130**	-	<7.8U	-	<7.8U	-	<7.8U	-	<7.8U	-	<7.8U
2-methylphenol	µg/L	4.3	**4200000**	-	<4.3U	-	<4.3U	-	<4.3U	-	<4.3U	-	<4.3U
4-methylphenol	mg/L	0.0083	**4200**	-	<0.008U	-	<0.008U	-	<0.008U	-	<0.008U	-	<0.008U
Hexachlorobenzene	µg/L	5.8	**30130**	-	<5.8U	-	<5.8U	-	<5.8U	-	<5.8U	-	<5.8U
Hexachlorobutadiene	µg/L	8.2	**500**	-	<8.2U	-	<8.2U	-	<8.2U	-	<8.2U	-	<8.2U
Hexachloroethane	µg/L	4.2	**3000**	-	<4.2U	-	<4.2U	-	<4.2U	-	<4.2U	-	<4.2U
Nitrobenzene	µg/L	12	**2000**	-	<12U	-	<12U	-	<12U	-	<12U	-	<12U
Pentachlorophenol	µg/L	7.8	**100000**	-	<7.8U	-	<7.8U	-	<7.8U	-	<7.8U	-	<7.8U
Pyridine	µg/L	8.6	**35000**	-	<8.6U	-	<8.6U	-	<8.6U	-	<8.6U	-	<8.6U
TCLP Metals													
Arsenic	mg/L	0.041	**5**	-	<0.041U	-	<0.041U	-	<0.041U	-	<0.041U	-	<0.041U
Barium	mg/L	2	**100**	-	0.77J	-	0.94J	-	0.97J	-	0.81J	-	0.87J
Cadmium	mg/L	0.0016	**1**	-	<0.002U	-	0.002J,B	-	<0.002U	-	0.002J	-	<0.002U
Chromium (III+VI)	mg/L	0.0078	**5**	-	<0.008U	-	<0.008U	-	<0.008U	-	<0.008U	-	<0.008U
Lead	mg/L	0.029	**5**	-	<0.029U	-	<0.029U	-	0.093J	-	<0.029U	-	0.03J
Selenium	mg/L	0.036	**1**	-	<0.036U	-	<0.036U	-	<0.036U	-	0.042J	-	<0.036U
Silver	mg/L	0.0085	**5**	-	<0.009U	-	<0.009U	-	<0.009U	-	<0.009U	-	<0.009U
Mercury	mg/L	0.000065	**0.2**	-	<0U	-	<0U	-	<0U	-	<0U	-	<0U
TCLP VOCs													
1,1-dichloroethene	µg/L	110	**700**	<110U	-	<110U	-	<110U	-	<110U	-	<110U	-
1,2-dichloroethane	µg/L	58	**500**	<58U	-	<58U	-	<58U	-	<58U	-	<58U	-
Methyl Ethyl Ketone	µg/L	120	**200000**	<120U	-	<120U	-	<120U	-	<120U	-	<120U	-
Benzene	µg/L	79	**500**	<79U	-	<79U	-	<79U	-	<79U	-	<79U	-
Carbon tetrachloride	µg/L	130	**500**	<130U	-	<130U	-	<130U	-	<130U	-	<130U	-
Chlorobenzene	µg/L	63	**100000**	<63U	-	<63U	-	<63U	-	<63U	-	<63U	-
Chloroform	µg/L	85	**6000**	<85U,*	-	<85U	-	<85U	-	<85U,*	-	<85U,*	-
Trichloroethene	µg/L	60	**500**	<60U	-	<60U	-	<60U	-	<60U	-	<60U	-
Tetrachloroethene	µg/L	80	**700**	<80U	-	<80U	-	<80U	-	<80U	-	<80U	-
Vinyl chloride	µg/L	150	**200**	<150U	-	<150U	-	<150U	-	<150U	-	<150U	-
PCBs			**NYS Hazardous Waste**										
Arochlor 1016	mg/kg	0.0092			<0.0098U		<0.048U		<0.05U		<0.01U		<0.1U
Arochlor 1221	mg/kg	0.009			<0.0096U		<0.047U		<0.049U		<0.0099U		<0.098U
Arochlor 1232	mg/kg	0.0069			<0.0073U		<0.036U		<0.037U		<0.0076U		<0.075U
Arochlor 1242	mg/kg	0.014			<0.015U		<0.072U		<0.075U		<0.015U		<0.15U
Arochlor 1248	mg/kg	0.017			1.8		6.5		7.8		3.3		11
Arochlor 1254	mg/kg	0.017			1.4		2.2		2.6		1.9		5.8
Arochlor 1260	mg/kg	0.012			0.44		0.36		0.46		0.31		0.82
Arochlor 1268	mg/kg	0.0053			<0.0056U		<0.028U		<0.029U		<0.0058U		<0.058U
Arochlor 1262	mg/kg	0.012			<0.013U		<0.065U		<0.068U		<0.014U		<0.14U
Total PCBs	mg/kg		**50**		3.67		9.208		11.01		5.541		17.93

Notes

µg/L	micrograms per Liter
mg/L	milligrams per Liter
mg/kg	milligrams per kilogram
*	LCS or LCSD is outside acceptance limits
TCLP	Toxicity Characteristic Leaching Procedure
RCRA Hazardous Waste	40 CFR Part 261 subpart C
NYS Hazardous Waste	6 NYCRR Part 371.4 (e))

TABLE 3
Summary of Windrow Analytical Results - Waste Characterization

Former Sperry Remington Site - North Portion
Elmira, New York

				Windrow Between 4-5		Windrow Between 4-5 Section 2		Windrow Between 4-5 Section 3		Windrow Between 4-5 Section 4		Windrow Between 5-6 Section 1	
			Sample ID	WB4-5, S1, A 073117	WB4-5, S1, C 073117	WB4-5, S2, A 073117	WB4-5, S2, C 073117	WB4-5, S3, A 08.01.17	WB4-5, S3, C 08.01.17	WB4-5, S4, A 08.01.17	WB4-5, S4, C 08.01.17	WB5-6, S1, A 072617	WB5-6, S1, C 072617
			Sampled Date	7/31/2017	7/31/2017	7/31/2017	7/31/2017	8/1/2017	8/1/2017	8/1/2017	8/1/2017	7/26/2017	7/26/2017
Chemcial Name	**Units**	**EQL**	**RCRA Hazardous Waste**										
TCLP SVOCs													
1,4-dichlorobenzene	µg/L	4.6	**7500**	-	<4.6U	-	<4.6U	-	<4.6U	-	<4.6U	-	<4.6U
2,4,5-trichlorophenol	µg/L	7.9	**400000**	-	<7.9U	-	<7.9U	-	<7.9U	-	<7.9U	-	<7.9U,F1,F2
2,4,6-trichlorophenol	µg/L	9.7	**2000**	-	<9.7U	-	<9.7U	-	<9.7U	-	<9.7U	-	<9.7U
2,4-Dinitrotoluene	µg/L	7.8	**30130**	-	<7.8U	-	<7.8U	-	<7.8U	-	<7.8U	-	<7.8U
2-methylphenol	µg/L	4.3	**4200000**	-	<4.3U	-	<4.3U	-	<4.3U	-	<4.3U	-	<4.3U
4-methylphenol	mg/L	0.0083	**4200**	-	<0.008U	-	<0.008U	-	<0.008U	-	<0.008U	-	<0.008U
Hexachlorobenzene	µg/L	5.8	**30130**	-	<5.8U	-	<5.8U	-	<5.8U	-	<5.8U	-	<5.8U
Hexachlorobutadiene	µg/L	8.2	**500**	-	<8.2U	-	<8.2U	-	<8.2U	-	<8.2U	-	<8.2U
Hexachloroethane	µg/L	4.2	**3000**	-	<4.2U	-	<4.2U	-	<4.2U	-	<4.2U	-	<4.2U
Nitrobenzene	µg/L	12	**2000**	-	<12U	-	<12U	-	<12U	-	<12U	-	<12U
Pentachlorophenol	µg/L	7.8	**100000**	-	<7.8U	-	<7.8U	-	<7.8U	-	<7.8U	-	<7.8U
Pyridine	µg/L	8.6	**35000**	-	<8.6U	-	<8.6U	-	<8.6U	-	<8.6U	-	<8.6U
TCLP Metals													
Arsenic	mg/L	0.041	**5**	-	<0.041U	-	<0.041U	-	<0.041U	-	<0.041U	-	<0.041U
Barium	mg/L	2	**100**	-	0.79J	-	0.71J	-	0.68J	-	0.77J	-	1.3J
Cadmium	mg/L	0.0016	**1**	-	0.002J	-	0.002J	-	<0.002U	-	0.002J	-	<0.002U
Chromium (III+VI)	mg/L	0.0078	**5**	-	<0.008U	-	<0.008U	-	<0.008U	-	<0.008U	-	<0.008U
Lead	mg/L	0.029	**5**	-	<0.029U	-	<0.029U	-	0.034J	-	<0.029U	-	0.062J
Selenium	mg/L	0.036	**1**	-	<0.036U,^	-	<0.036U,^	-	<0.036U	-	<0.036U	-	<0.036U
Silver	mg/L	0.0085	**5**	-	<0.009U	-	<0.009U	-	<0.009U	-	<0.009U	-	<0.009U,F1
Mercury	mg/L	0.000065	**0.2**	-	<0U	-	<0U	-	<0U	-	<0U	-	<0U
TCLP VOCs													
1,1-dichloroethene	µg/L	110	**700**	<110U	-	<110U	-	<110U	-	<110U	-	<110U	-
1,2-dichloroethane	µg/L	58	**500**	<58U	-	<58U	-	<58U	-	<58U	-	<58U	-
Methyl Ethyl Ketone	µg/L	120	**200000**	<120U	-	<120U	-	<120U	-	<120U	-	<120U	-
Benzene	µg/L	79	**500**	<79U	-	<79U	-	<79U	-	<79U	-	<79U	-
Carbon tetrachloride	µg/L	130	**500**	<130U	-	<130U	-	<130U	-	<130U	-	<130U	-
Chlorobenzene	µg/L	63	**100000**	<63U	-	<63U	-	<63U	-	<63U	-	<63U	-
Chloroform	µg/L	85	**6000**	<85U	-	<85U	-	<85U,*	-	<85U,*	-	<85U,F1	-
Trichloroethene	µg/L	60	**500**	<60U	-	<60U	-	<60U	-	<60U	-	<60U	-
Tetrachloroethene	µg/L	80	**700**	<80U	-	<80U	-	<80U	-	<80U	-	<80U	-
Vinyl chloride	µg/L	150	**200**	<150U,*	-	<150U,*	-	<150U	-	<150U	-	<150U	-
PCBs			**NYS Hazardous Waste**										
Arochlor 1016	mg/kg	0.0092			<0.01U		<0.0098U		<0.0098U		<0.01U		<0.01U,F1
Arochlor 1221	mg/kg	0.009			<0.0098U		<0.0096U		<0.0095U		<0.0098U		<0.0098U
Arochlor 1232	mg/kg	0.0069			<0.0075U		<0.0073U		<0.0073U		<0.0075U		<0.0075U
Arochlor 1242	mg/kg	0.014			<0.015U		<0.015U		<0.015U		<0.015U		<0.015U
Arochlor 1248	mg/kg	0.017			1.3		1.7		1.6		1.3		1.9
Arochlor 1254	mg/kg	0.017			0.83		1.2		1.5		1.2		0.68
Arochlor 1260	mg/kg	0.012			0.18		0.3		0.35		0.25		0.12
Arochlor 1268	mg/kg	0.0053			<0.0058U		<0.0056U		<0.0056U		<0.0057U		<0.0058U
Arochlor 1262	mg/kg	0.012			<0.014U		<0.013U		<0.013U		<0.014U		<0.014U
Total PCBs	mg/kg		**50**		2.341		3.23		3.48		2.781		2.731

Notes

µg/L	micrograms per Liter
mg/L	milligrams per Liter
mg/kg	milligrams per kilogram
*	LCS or LCSD is outside acceptance limits
TCLP	Toxicity Characteristic Leaching Procedure
RCRA Hazardous Waste	40 CFR Part 261 subpart C
NYS Hazardous Waste	6 NYCRR Part 371.4 (e))

TABLE 3
Summary of Windrow Analytical Results - Waste Characterization

Former Sperry Remington Site - North Portion
Elmira, New York

				Windrow Between 5-6 Section 2		Windrow Between 5-6 Section 3	
			Sample ID	WB5-6, S2, A 08.01.17	WB5-6, S2, C 08.01.17	WB5-6, S3, A 08.01.17	WB5-6, S3, C 08.01.17
			Sampled Date	8/1/2017	8/1/2017	8/1/2017	8/1/2017
Chemcial Name	**Units**	**EQL**	**RCRA Hazardous Waste**				
TCLP SVOCs							
1,4-dichlorobenzene	µg/L	4.6	**7500**	-	<4.6U	-	<4.6U
2,4,5-trichlorophenol	µg/L	7.9	**400000**	-	<7.9U	-	<7.9U
2,4,6-trichlorophenol	µg/L	9.7	**2000**	-	<9.7U	-	<9.7U
2,4-Dinitrotoluene	µg/L	7.8	**30130**	-	<7.8U	-	<7.8U
2-methylphenol	µg/L	4.3	**4200000**	-	<4.3U	-	<4.3U
4-methylphenol	mg/L	0.0083	**4200**	-	<0.008U	-	<0.008U
Hexachlorobenzene	µg/L	5.8	**30130**	-	<5.8U	-	<5.8U
Hexachlorobutadiene	µg/L	8.2	**500**	-	<8.2U	-	<8.2U
Hexachloroethane	µg/L	4.2	**3000**	-	<4.2U	-	<4.2U
Nitrobenzene	µg/L	12	**2000**	-	<12U	-	<12U
Pentachlorophenol	µg/L	7.8	**100000**	-	<7.8U	-	<7.8U
Pyridine	µg/L	8.6	**35000**	-	<8.6U	-	<8.6U
TCLP Metals							
Arsenic	mg/L	0.041	**5**	-	<0.041U	-	<0.041U
Barium	mg/L	2	**100**	-	0.83J	-	0.64J
Cadmium	mg/L	0.0016	**1**	-	<0.002U	-	0.002J
Chromium (III+VI)	mg/L	0.0078	**5**	-	<0.008U	-	<0.008U
Lead	mg/L	0.029	**5**	-	0.033J	-	<0.029U
Selenium	mg/L	0.036	**1**	-	<0.036U	-	<0.036U
Silver	mg/L	0.0085	**5**	-	<0.009U	-	<0.009U
Mercury	mg/L	0.000065	**0.2**	-	<0U	-	<0U
TCLP VOCs							
1,1-dichloroethene	µg/L	110	**700**	<110U	-	<110U	-
1,2-dichloroethane	µg/L	58	**500**	<58U	-	<58U	-
Methyl Ethyl Ketone	µg/L	120	**200000**	<120U	-	<120U	-
Benzene	µg/L	79	**500**	<79U	-	<79U	-
Carbon tetrachloride	µg/L	130	**500**	<130U	-	<130U	-
Chlorobenzene	µg/L	63	**100000**	<63U	-	<63U	-
Chloroform	µg/L	85	**6000**	<85U,*	-	<85U,*	-
Trichloroethene	µg/L	60	**500**	<60U	-	<60U	-
Tetrachloroethene	µg/L	80	**700**	<80U	-	<80U	-
Vinyl chloride	µg/L	150	**200**	<150U	-	<150U	-
PCBs			**NYS Hazardous Waste**				
Arochlor 1016	mg/kg	0.0092			<0.0095U		<0.0096U
Arochlor 1221	mg/kg	0.009			<0.0093U		<0.0094U
Arochlor 1232	mg/kg	0.0069			<0.0071U		<0.0071U
Arochlor 1242	mg/kg	0.014			<0.014U		<0.014U
Arochlor 1248	mg/kg	0.017			1.3		1.2
Arochlor 1254	mg/kg	0.017			0.84		1.1
Arochlor 1260	mg/kg	0.012			0.16		0.22
Arochlor 1268	mg/kg	0.0053			<0.0054U		<0.0055U
Arochlor 1262	mg/kg	0.012			<0.013U		<0.013U
Total PCBs	mg/kg		**50**		2.329		2.549

Notes

µg/L	micrograms per Liter
mg/L	milligrams per Liter
mg/kg	milligrams per kilogram
*	LCS or LCSD is outside acceptance limits
TCLP	Toxicity Characteristic Leaching Procedure
RCRA Hazardous Waste	40 CFR Part 261 subpart C
NYS Hazardous Waste	6 NYCRR Part 371.4 (e))

Table 4
Summary of Analytical Results for Contact Water
Former Sperry Remington Site - North Portion
Elmira, New York

			Field_ID	WASH WATER
			Sampled Date	8/17/2017
Group	**Analyte**	**Units**	**EQL**	
PCBs	Arochlor 1016	µg/L	0.14	<0.14U
	Arochlor 1221	µg/L	0.38	<0.38U
	Arochlor 1232	µg/L	0.14	<0.14U
	Arochlor 1242	µg/L	0.39	<0.39U
	Arochlor 1248	µg/L	0.29	<0.29U
	Arochlor 1254	µg/L	0.21	<0.21U
	Arochlor 1260	µg/L	0.24	<0.24U
	Arochlor 1268	µg/L	0.28	<0.28U
	Arochlor 1262	µg/L	0.28	<0.28U
TCLP Pesticides	chlordane	µg/L	2.4	<2.4U
	Endrin	µg/L	0.26	<0.26U
	g-BHC (Lindane)	µg/L	0.16	<0.16U
	Heptachlor	µg/L	0.17	<0.17U
	Heptachlor epoxide	µg/L	0.19	<0.19U
	Methoxychlor	µg/L	0.19	<0.19U
	Toxaphene	mg/L	0.017	<0.017U
TCLP Herbicides	2,4,5-TP (Silvex)	mg/L	0.0011	<0.0011U
	Hedonal	mg/L	0.0045	<0.0045U
TCLP SVOCs	1,4-dichlorobenzene	µg/L	4.6	<4.6U
	2,4,5-trichlorophenol	µg/L	7.9	<7.9U
	2,4,6-trichlorophenol	µg/L	9.7	<9.7U
	2,4-Dinitrotoluene	µg/L	7.8	<7.8U
	2-methylphenol	µg/L	4.3	<4.3U
	4-methylphenol	mg/L	0.0083	<0.0083U
	Hexachlorobenzene	µg/L	5.8	<5.8U
	Hexachlorobutadiene	µg/L	8.2	<8.2U
	Hexachloroethane	µg/L	4.2	<4.2U
	Nitrobenzene	µg/L	12	<12U
	Pentachlorophenol	µg/L	7.8	<7.8U
	Pyridine	µg/L	8.6	<8.6U
TCLP VOCs	1,1-dichloroethene	µg/L	110	<110U
	1,2-dichloroethane	µg/L	58	<58U
	Methyl Ethyl Ketone	µg/L	120	<120U
	Benzene	µg/L	79	<79U
	Carbon tetrachloride	µg/L	130	<130U
	Chlorobenzene	µg/L	63	<63U
	Chloroform	µg/L	85	<85U
	Trichloroethene	µg/L	60	<60U
	Tetrachloroethene	µg/L	80	<80U
	Vinyl chloride	µg/L	150	<150U
TCLP Metals	Arsenic	mg/L	0.041	<0.041U
	Barium	mg/L	2	0.11J
	Cadmium	mg/L	0.0016	<0.0016U
	Chromium (III+VI)	mg/L	0.0078	<0.0078U
	Lead	mg/L	0.029	<0.029U
	Selenium	mg/L	0.036	<0.036U
	Silver	mg/L	0.0085	<0.0085U
	Mercury	mg/L	0.000065	<0.000065U
Total Metals	Arsenic	mg/L	0.01	0.01
	Barium	mg/L	0.2	0.11J
	Cadmium	mg/L	0.00016	<0.00016U
	Chromium (III+VI)	mg/L	0.005	0.0014J
	Lead	mg/L	0.0029	<0.0029U
	Mercury	mg/L	0.000065	<0.000065U
	Selenium	mg/L	0.0036	<0.0036U
	Silver	mg/L	0.00085	<0.00085U
General Chemistry	Total Organic Halides	mg/l	0.03	0.068
	Flash Point	oF	1	>200
	Cyanide Total	mg/L	0.01	0.0033J
	pH (Lab)	pH Units	0.1	7.7HF

Notes:

PCBs	Polychlorinated biphenyls
TCLP	Toxicity Characterististic Leaching Procedure
SVOCs	Semi-volatile Organic Compounds
VOCs	Volatile Organic Compounds
J	Estimated Value
U	Non-detect
µg/L	microgram per Liter
mg/L	milligram per Liter
oF	degrees farenheit
HF	Analysis performed after specified QAPP hold time

TABLE 5
Summary of Analytical Results for Potential Reuse

Former Sperry Remington Site - North Portion
Elmira, New York

				Windrow 1 Section 1			Windrow 1 Section 2		
			Sample ID	WINDROW1, SEC 1, A	WINDROW1, SEC 1, B	WINDROW1, SEC 1, C	WINDROW1, SEC 2, A	WINDROW1, SEC 2, B	WINDROW1, SEC 2, C
			Sampled Date	7/10/2017	7/10/2017	7/10/2017	7/10/2017	7/10/2017	7/10/2017
Chemical Group	**Units**	**EQL**	NYSDEC DER-10 App 5						
PCBs									
Arochlor 1016	mg/kg	0.0092		-	-	<0.0098U	-	-	<0.0098U
Arochlor 1221	mg/kg	0.009		-	-	<0.0095U	-	-	<0.0095U
Arochlor 1232	mg/kg	0.0069		-	-	<0.0073U	-	-	<0.0073U
Arochlor 1242	mg/kg	0.014		-	-	<0.015U	-	-	<0.015U
Arochlor 1248	mg/kg	0.017		-	-	1.3J	-	-	1.1J
Arochlor 1254	mg/kg	0.017		-	-	0.82J	-	-	0.68J
Arochlor 1260	mg/kg	0.012		-	-	0.22J	-	-	0.18J
Arochlor 1268	mg/kg	0.0053		-	-	<0.0056U	-	-	<0.0056U
Arochlor 1262	mg/kg	0.012		-	-	<0.013U	-	-	<0.013U
Total PCBs	mg/kg		1	-	-	**2.37**	-	-	**1.99**
Inorganics									
Arsenic	mg/kg	1	16	-	-	6.5	-	-	6.5
Barium	mg/kg	20	400	-	-	76	-	-	83
Beryllium	mg/kg	0.41	72	-	-	0.36J	-	-	0.37J
Cadmium	mg/kg	0.12	4.3	-	-	0.15J	-	-	0.17J
Chromium (III+VI)	mg/kg	0.51	110	-	-	9.6	-	-	10
Copper	mg/kg	2.5	270	-	-	21	-	-	23
Lead	mg/kg	1	400	-	-	31	-	-	31
Manganese	mg/kg	1.5	2000	-	-	400	-	-	430
Nickel	mg/kg	4.1	310	-	-	19	-	-	18
Selenium	mg/kg	0.4	180	-	-	<0.44U	-	-	0.56J
Silver	mg/kg	0.17	180	-	-	<0.18U	-	-	<0.19U
Zinc	mg/kg	2	10000	-	-	66	-	-	67
Mercury	mg/kg	0.028	0.81	-	-	0.26	-	-	0.3
Cyanide Total	mg/kg	0.14	27	-	-	<0.14U	-	-	<0.16U
SVOCs									
1,4-Dioxane	mg/kg	0.0053	13	-	-	<0.055U	-	-	<0.056U
2,4,5-trichlorophenol	mg/kg	0.0034		-	-	<0.035U	-	-	<0.035U
2,4,6-trichlorophenol	mg/kg	0.0031		-	-	<0.032U	-	-	<0.033U
2,4-Dinitrotoluene	mg/kg	0.0047		-	-	0.42	-	-	<0.049U
2-methylphenol	mg/kg	0.0031	100	-	-	<0.033U	-	-	<0.033U
4-methylphenol	mg/kg	0.0031	100	-	-	<0.033U	-	-	<0.033U
Acenaphthene	mg/kg	0.0024	100	-	-	<0.025U	-	-	<0.025U
Acenaphthylene	mg/kg	0.0024	100	-	-	0.28	-	-	0.21
Anthracene	mg/kg	0.0026	100	-	-	0.18	-	-	0.19
Benz(a)anthracene	mg/kg	0.0071	1	-	-	0.39	-	-	0.36
Benzo(a) pyrene	mg/kg	0.0071	1	-	-	0.39	-	-	0.37
Benzo(b)fluoranthene	mg/kg	0.0071	1	-	-	0.48	-	-	0.45
Benzo(g,h,i)perylene	mg/kg	0.0071	100	-	-	0.36	-	-	0.34
Benzo(k)fluoranthene	mg/kg	0.0071	3.9	-	-	0.18	-	-	0.17
Chrysene	mg/kg	0.0071	3.9	-	-	0.44	-	-	0.35
Dibenz(a,h)anthracene	mg/kg	0.0029	0.33	-	-	0.089	-	-	0.085
Dibenzofuran	mg/kg	0.0028	59	-	-	<0.029U	-	-	<0.03U
Fluoranthene	mg/kg	0.0071	100	-	-	0.42	-	-	0.49
Fluorene	mg/kg	0.0025	100	-	-	0.036J	-	-	<0.027U
Hexachlorobenzene	mg/kg	0.0028	1.2	-	-	<0.03U	-	-	<0.03U
Hexachlorobutadiene	mg/kg	0.0022		-	-	<0.023U	-	-	<0.024U
Hexachloroethane	mg/kg	0.0025		-	-	<0.026U	-	-	<0.027U
Indeno(1,2,3-c,d)pyrene	mg/kg	0.0071	0.5	-	-	0.29	-	-	0.27
Naphthalene	mg/kg	0.0026	100	-	-	0.098	-	-	0.081
Nitrobenzene	mg/kg	0.0027		-	-	<0.028U	-	-	<0.029U
Pentachlorophenol	mg/kg	0.067	6.7	-	-	<0.7U	-	-	<0.71U
Phenanthrene	mg/kg	0.0071	100	-	-	0.26	-	-	0.33
Phenol	mg/kg	0.0048	100	-	-	<0.05U	-	-	<0.05U
Pyrene	mg/kg	0.0071	100	-	-	0.64	-	-	0.6
Pyridine	mg/kg	0.0034		-	-	<0.035U	-	-	<0.036U
VOCs									
1,1,1-trichloroethane	mg/kg	0.0019	100	<0.0028U	<0.0024U	-	<0.0029U	<0.0026U	-
1,1-dichloroethane	mg/kg	0.0014	26	<0.002U	<0.0018U	-	<0.0021U	<0.0019U	-
1,1-dichloroethene	mg/kg	0.0021	100	<0.0032U	<0.0028U	-	<0.0033U	<0.0029U	-
1,2,4-trimethylbenzene	mg/kg	0.001	52	<0.0015U	<0.0013U	-	<0.0015U	<0.0014U	-
1,2-dichlorobenzene	mg/kg	0.003	100	<0.0045U	<0.0039U	-	<0.0046U	<0.0041U	-
1,2-dichloroethane	mg/kg	0.0011	3.1	<0.0016U	<0.0014U	-	<0.0017U	<0.0015U	-
1,3,5-trimethylbenzene	mg/kg	0.0013	52	<0.0019U	<0.0017U	-	<0.002U	<0.0018U	-
1,3-dichlorobenzene	mg/kg	0.0012	49	<0.0018U	<0.0016U	-	<0.0018U	<0.0016U	-
1,4-dichlorobenzene	mg/kg	0.00077	13	<0.0012U	<0.00099U	-	<0.0012U	<0.0011U	-
Methyl Ethyl Ketone	mg/kg	0.0022	100	<0.0033U	<0.0028U	-	<0.0033U	<0.003U	-
Acetone	mg/kg	0.0024	100	<0.0036U	<0.0031U	-	<0.0036U	<0.0032U	-
Benzene	mg/kg	0.0015	4.8	<0.0022U	<0.0019U	-	<0.0023U	<0.002U	-
Carbon tetrachloride	mg/kg	0.0025	2.4	<0.0037U	<0.0032U	-	<0.0038U	<0.0034U	-
Chlorobenzene	mg/kg	0.0012	100	<0.0018U	<0.0015U	-	<0.0018U	<0.0016U	-
Chloroform	mg/kg	0.0016	49	<0.0024U	<0.0021U	-	<0.0024U	<0.0022U	-
cis-1,2-dichloroethene	mg/kg	0.0012	100	<0.0018U	<0.0015U	-	<0.0018U	<0.0016U	-
Dichloromethane	mg/kg	0.0018	100	<0.0027U	<0.0023U	-	<0.0027U	<0.0024U	-
Ethylbenzene	mg/kg	0.0016	41	<0.0024U	<0.0021U	-	<0.0025U	<0.0022U	-
Methyl-tert-butyl ether	mg/kg	0.0028	100	<0.0042U	<0.0036U	-	<0.0042U	<0.0038U	-
n-butylbenzene	mg/kg	0.0029	100	<0.0043U	<0.0037U	-	<0.0044U	<0.0039U	-
n-propylbenzene	mg/kg	0.0016	100	<0.0024U	<0.0021U	-	<0.0024U	<0.0022U	-
sec-butylbenzene	mg/kg	0.0018	100	<0.0028U	<0.0024U	-	<0.0028U	<0.0025U	-
Trichloroethene	mg/kg	0.0011	21	<0.0017U	<0.0015U	-	<0.0017U	<0.0015U	-
tert-butylbenzene	mg/kg	0.0014	100	<0.0021U	<0.0018U	-	<0.0021U	<0.0019U	-
Tetrachloroethene	mg/kg	0.0015	19	<0.0023U	<0.0019U	-	<0.0023U	<0.0021U	-
Toluene	mg/kg	0.0013	100	<0.0019U	<0.0016U	-	<0.0019U	<0.0017U	-
trans-1,2-dichloroethene	mg/kg	0.0019	100	<0.0029U	<0.0025U	-	<0.0029U	<0.0026U	-
Vinyl chloride	mg/kg	0.0028	0.9	<0.0041U	<0.0036U	-	<0.0042U	<0.0038U	-
Xylene Total	mg/kg	0.0032	100	<0.0049U	<0.0042U	-	<0.0049U	<0.0044U	-

Notes:

NYSDEC DER-10 App 5 - Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010
Concentrations detected above restricted residentual use for Imported fill or soil are bolded and highlighted in grey
U non detect
J estimated value
J+ estimated value; however value is likely to higher due to higher concentration of the analyte in sample due to positive bias
J- estimated value; however value is likely to lower due to lower concentration of the analyte in sample due to negative bias
UJ non detect; however the reported quantation limit is estimated

TABLE 5
Summary of Analytical Results for Potential Reuse

Former Sperry Remington Site - North Portion
Elmira, New York

				Windrow 1 Section 3			Windrow 1 Section 4		
			Sample ID	WINDROW1, SEC 3, A	WINDROW1, SEC 3, B	WINDROW1, SEC 3, C	WINDROW1, SEC 4, A	WINDROW1, SEC 4, B	WINDROW1, SEC 4, C
			Sampled Date	7/10/2017	7/10/2017	7/10/2017	7/10/2017	7/10/2017	7/10/2017
Chemical Group	**Units**	**EQL**	NYSDEC DER-10 App 5						
PCBs									
Arochlor 1016	mg/kg	0.0092		-	-	<0.0098U	-	-	<0.0099U
Arochlor 1221	mg/kg	0.009		-	-	<0.0095U	-	-	<0.0096U
Arochlor 1232	mg/kg	0.0069		-	-	<0.0073U	-	-	<0.0074U
Arochlor 1242	mg/kg	0.014		-	-	<0.015U	-	-	<0.015U
Arochlor 1248	mg/kg	0.017		-	-	1J	-	-	0.91J
Arochlor 1254	mg/kg	0.017		-	-	0.67J	-	-	0.6J
Arochlor 1260	mg/kg	0.012		-	-	0.17J	-	-	0.17J
Arochlor 1268	mg/kg	0.0053		-	-	<0.0056U	-	-	<0.0057U
Arochlor 1262	mg/kg	0.012		-	-	<0.013U	-	-	<0.013U
Total PCBs	mg/kg		1	-	-	**1.87**	-	-	**1.71**
Inorganics									
Arsenic	mg/kg	1	16	-	-	7.4	-	-	7.4
Barium	mg/kg	20	400	-	-	92	-	-	94
Beryllium	mg/kg	0.41	72	-	-	0.4J	-	-	0.41J
Cadmium	mg/kg	0.12	4.3	-	-	0.18J	-	-	0.17J
Chromium (III+VI)	mg/kg	0.51	110	-	-	12	-	-	11
Copper	mg/kg	2.5	270	-	-	25	-	-	22
Lead	mg/kg	1	400	-	-	36	-	-	32
Manganese	mg/kg	1.5	2000	-	-	420	-	-	440
Nickel	mg/kg	4.1	310	-	-	20	-	-	20
Selenium	mg/kg	0.4	180	-	-	<0.45U	-	-	<0.49U
Silver	mg/kg	0.17	180	-	-	<0.19U	-	-	<0.2U
Zinc	mg/kg	2	10000	-	-	75	-	-	74
Mercury	mg/kg	0.028	0.81	-	-	0.45J	-	-	0.29
Cyanide Total	mg/kg	0.14	27	-	-	0.19J	-	-	<0.15U
SVOCs									
1,4-Dioxane	mg/kg	0.0053	13	-	-	<0.057U	-	-	<0.056U
2,4,5-trichlorophenol	mg/kg	0.0034		-	-	<0.036U	-	-	<0.035U
2,4,6-trichlorophenol	mg/kg	0.0031		-	-	<0.033U	-	-	<0.033U
2,4-Dinitrotoluene	mg/kg	0.0047		-	-	<0.05U	-	-	<0.049U
2-methylphenol	mg/kg	0.0031	100	-	-	<0.033U	-	-	<0.033U
4-methylphenol	mg/kg	0.0031	100	-	-	<0.033U	-	-	<0.033U
Acenaphthene	mg/kg	0.0024	100	-	-	<0.025U	-	-	<0.025U
Acenaphthylene	mg/kg	0.0024	100	-	-	0.25J	-	-	0.21
Anthracene	mg/kg	0.0026	100	-	-	0.18J	-	-	0.15
Benz(a)anthracene	mg/kg	0.0071	1	-	-	0.52	-	-	0.33
Benzo(a) pyrene	mg/kg	0.0071	1	-	-	0.49	-	-	0.35
Benzo(b)fluoranthene	mg/kg	0.0071	1	-	-	0.62	-	-	0.42
Benzo(g,h,i)perylene	mg/kg	0.0071	100	-	-	0.44	-	-	0.35
Benzo(k)fluoranthene	mg/kg	0.0071	3.9	-	-	0.23J	-	-	0.2
Chrysene	mg/kg	0.0071	3.9	-	-	0.48	-	-	0.33
Dibenz(a,h)anthracene	mg/kg	0.0029	0.33	-	-	0.098	-	-	0.096
Dibenzofuran	mg/kg	0.0028	59	-	-	0.035J	-	-	<0.03U
Fluoranthene	mg/kg	0.0071	100	-	-	0.64J	-	-	0.42
Fluorene	mg/kg	0.0025	100	-	-	0.039J	-	-	0.032J
Hexachlorobenzene	mg/kg	0.0028	1.2	-	-	<0.03U	-	-	<0.03U
Hexachlorobutadiene	mg/kg	0.0022		-	-	<0.024U	-	-	<0.023U
Hexachloroethane	mg/kg	0.0025		-	-	<0.027U	-	-	<0.027U
Indeno(1,2,3-c,d)pyrene	mg/kg	0.0071	0.5	-	-	0.35	-	-	0.28
Naphthalene	mg/kg	0.0026	100	-	-	0.12	-	-	0.1
Nitrobenzene	mg/kg	0.0027		-	-	<0.029U	-	-	<0.028U
Pentachlorophenol	mg/kg	0.067	6.7	-	-	<0.71U	-	-	<0.7U
Phenanthrene	mg/kg	0.0071	100	-	-	0.39J	-	-	0.29
Phenol	mg/kg	0.0048	100	-	-	<0.051U	-	-	<0.05U
Pyrene	mg/kg	0.0071	100	-	-	0.82J	-	-	0.55
Pyridine	mg/kg	0.0034		-	-	<0.036U	-	-	<0.036U
VOCs									
1,1,1-trichloroethane	mg/kg	0.0019	100	<0.0025U	<0.0025U	-	<0.0026U	<0.0021U	-
1,1-dichloroethane	mg/kg	0.0014	26	<0.0018U	<0.0018U	-	<0.0018U	<0.0015U	-
1,1-dichloroethene	mg/kg	0.0021	100	<0.0029U	<0.0029U	-	<0.0029U	<0.0024U	-
1,2,4-trimethylbenzene	mg/kg	0.001	52	<0.0014U	<0.0014U	-	<0.0014U	<0.0011U	-
1,2-dichlorobenzene	mg/kg	0.003	100	<0.0041U	<0.0041U	-	<0.0041U	<0.0033U	-
1,2-dichloroethane	mg/kg	0.0011	3.1	<0.0015U	<0.0015U	-	<0.0015U	<0.0012U	-
1,3,5-trimethylbenzene	mg/kg	0.0013	52	<0.0017U	<0.0017U	-	<0.0018U	<0.0014U	-
1,3-dichlorobenzene	mg/kg	0.0012	49	<0.0016U	<0.0016U	-	<0.0016U	<0.0013U	-
1,4-dichlorobenzene	mg/kg	0.00077	13	<0.001U	<0.001U	-	<0.001U	<0.00085U	-
Methyl Ethyl Ketone	mg/kg	0.0022	100	<0.0029U	<0.0029U	-	<0.003U	<0.0024U	-
Acetone	mg/kg	0.0024	100	<0.0032U	<0.0032U	-	<0.0032U	<0.0026U	-
Benzene	mg/kg	0.0015	4.8	<0.002U	<0.002U	-	<0.002U	<0.0016U	-
Carbon tetrachloride	mg/kg	0.0025	2.4	<0.0034U	<0.0034U	-	<0.0034U	<0.0028U	-
Chlorobenzene	mg/kg	0.0012	100	<0.0016U	<0.0016U	-	<0.0016U	<0.0013U	-
Chloroform	mg/kg	0.0016	49	<0.0021U	<0.0021U	-	<0.0022U	<0.0018U	-
cis-1,2-dichloroethene	mg/kg	0.0012	100	<0.0016U	<0.0016U	-	<0.0016U	<0.0013U	-
Dichloromethane	mg/kg	0.0018	100	<0.0024U	<0.0024U	-	<0.0024U	<0.002U	-
Ethylbenzene	mg/kg	0.0016	41	<0.0022U	<0.0022U	-	<0.0022U	<0.0018U	-
Methyl-tert-butyl ether	mg/kg	0.0028	100	<0.0037U	<0.0037U	-	<0.0038U	<0.0031U	-
n-butylbenzene	mg/kg	0.0029	100	<0.0038U	<0.0038U	-	<0.0039U	<0.0031U	-
n-propylbenzene	mg/kg	0.0016	100	<0.0021U	<0.0021U	-	<0.0021U	<0.0018U	-
sec-butylbenzene	mg/kg	0.0018	100	<0.0025U	<0.0025U	-	<0.0025U	<0.002U	-
Trichloroethene	mg/kg	0.0011	21	<0.0015U	<0.0015U	-	<0.0015U	<0.0012U	-
tert-butylbenzene	mg/kg	0.0014	100	<0.0019U	<0.0019U	-	<0.0019U	<0.0015U	-
Tetrachloroethene	mg/kg	0.0015	19	<0.002U	<0.002U	-	<0.002U	<0.0017U	-
Toluene	mg/kg	0.0013	100	<0.0017U	<0.0017U	-	<0.0017U	<0.0014U	-
trans-1,2-dichloroethene	mg/kg	0.0019	100	<0.0026U	<0.0026U	-	<0.0026U	<0.0021U	-
Vinyl chloride	mg/kg	0.0028	0.9	<0.0037U	<0.0037U	-	<0.0037U	<0.003U	-
Xylene Total	mg/kg	0.0032	100	<0.0044U	<0.0044U	-	<0.0044U	<0.0036U	-

Notes:

NYSDEC DER-10 App 5 - Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010
Concentrations detected above restricted residentual use for Imported fill or soil are bolded and highlighted in grey
U non detect
J estimated value
J+ estimated value; however value is likely to higher due to higher concentration of the analyte in sample due to positive bias
J- estimated value; however value is likely to lower due to lower concentration of the analyte in sample due to negative bias
UJ non detect; however the reported quantation limit is estimated

TABLE 5
Summary of Analytical Results for Potential Reuse

Former Sperry Remington Site - North Portion
Elmira, New York

				Windrow 1 Section 5			Windrow 1-b Section 2		
			Sample ID	W1, S5, A 71117	W1, S5, B 71117	W1, S5, C 71117	W1-b, S2, A 073117	W1-b, S2, B 073117	W1-b, S2, C 073117
			Sampled Date	7/11/2017	7/11/2017	7/11/2017	7/31/2017	7/31/2017	7/31/2017
Chemical Group	**Units**	**EQL**	NYSDEC DER-10 App 5						
PCBs									
Arochlor 1016	mg/kg	0.0092		-	-	<0.0095U	-	-	<0.0098U
Arochlor 1221	mg/kg	0.009		-	-	<0.0093U	-	-	<0.0096U
Arochlor 1232	mg/kg	0.0069		-	-	<0.0071U	-	-	<0.0073U
Arochlor 1242	mg/kg	0.014		-	-	<0.014U	-	-	<0.015U
Arochlor 1248	mg/kg	0.017		-	-	0.63J	-	-	3.2J
Arochlor 1254	mg/kg	0.017		-	-	0.45J	-	-	2J
Arochlor 1260	mg/kg	0.012		-	-	0.15J	-	-	0.34J
Arochlor 1268	mg/kg	0.0053		-	-	<0.0055U	-	-	<0.0056U
Arochlor 1262	mg/kg	0.012		-	-	<0.013U	-	-	<0.013U
Total PCBs	mg/kg		1	-	-	**1.259**	-	-	**5.57**
Inorganics									
Arsenic	mg/kg	1	16	-	-	5.8	-	-	8.3
Barium	mg/kg	20	400	-	-	65	-	-	79
Beryllium	mg/kg	0.41	72	-	-	0.3J	-	-	0.43J
Cadmium	mg/kg	0.12	4.3	-	-	0.16J	-	-	<0.13U
Chromium (III+VI)	mg/kg	0.51	110	-	-	8	-	-	11
Copper	mg/kg	2.5	270	-	-	45	-	-	33
Lead	mg/kg	1	400	-	-	38	-	-	54
Manganese	mg/kg	1.5	2000	-	-	350	-	-	440
Nickel	mg/kg	4.1	310	-	-	14	-	-	22
Selenium	mg/kg	0.4	180	-	-	<0.44U	-	-	<0.47U
Silver	mg/kg	0.17	180	-	-	<0.18U	-	-	<0.2U
Zinc	mg/kg	2	10000	-	-	72	-	-	78
Mercury	mg/kg	0.028	0.81	-	-	0.29	-	-	0.058
Cyanide Total	mg/kg	0.14	27	-	-	<0.17U	-	-	<0.17U
SVOCs									
1,4-Dioxane	mg/kg	0.0053	13	-	-	<0.055U	-	-	<0.11U
2,4,5-trichlorophenol	mg/kg	0.0034		-	-	<0.035U	-	-	<0.071U
2,4,6-trichlorophenol	mg/kg	0.0031		-	-	<0.032U	-	-	<0.066U
2,4-Dinitrotoluene	mg/kg	0.0047		-	-	<0.048U	-	-	<0.099U
2-methylphenol	mg/kg	0.0031	100	-	-	<0.032U	-	-	<0.066U
4-methylphenol	mg/kg	0.0031	100	-	-	<0.032U	-	-	<0.066U
Acenaphthene	mg/kg	0.0024	100	-	-	<0.025U	-	-	<0.05U
Acenaphthylene	mg/kg	0.0024	100	-	-	0.099	-	-	0.12J
Anthracene	mg/kg	0.0026	100	-	-	0.11	-	-	0.087J
Benz(a)anthracene	mg/kg	0.0071	1	-	-	0.45	-	-	0.29
Benzo(a) pyrene	mg/kg	0.0071	1	-	-	0.45	-	-	0.3
Benzo(b)fluoranthene	mg/kg	0.0071	1	-	-	0.57	-	-	0.44
Benzo(g,h,i)perylene	mg/kg	0.0071	100	-	-	0.47	-	-	0.33
Benzo(k)fluoranthene	mg/kg	0.0071	3.9	-	-	0.15	-	-	0.16
Chrysene	mg/kg	0.0071	3.9	-	-	0.38	-	-	0.29
Dibenz(a,h)anthracene	mg/kg	0.0029	0.33	-	-	0.11	-	-	0.066J
Dibenzofuran	mg/kg	0.0028	59	-	-	0.04J	-	-	<0.06U
Fluoranthene	mg/kg	0.0071	100	-	-	0.72	-	-	0.45
Fluorene	mg/kg	0.0025	100	-	-	<0.026U	-	-	<0.053U
Hexachlorobenzene	mg/kg	0.0028	1.2	-	-	<0.029U	-	-	<0.06U
Hexachlorobutadiene	mg/kg	0.0022		-	-	<0.023U	-	-	<0.047U
Hexachloroethane	mg/kg	0.0025		-	-	<0.026U	-	-	<0.054U
Indeno(1,2,3-c,d)pyrene	mg/kg	0.0071	0.5	-	-	0.4	-	-	0.27
Naphthalene	mg/kg	0.0026	100	-	-	0.12	-	-	0.059J
Nitrobenzene	mg/kg	0.0027		-	-	<0.028U	-	-	<0.057U
Pentachlorophenol	mg/kg	0.067	6.7	-	-	<0.69U	-	-	<1.4U
Phenanthrene	mg/kg	0.0071	100	-	-	0.36	-	-	0.22
Phenol	mg/kg	0.0048	100	-	-	<0.049U	-	-	<0.1U
Pyrene	mg/kg	0.0071	100	-	-	0.72	-	-	0.42
Pyridine	mg/kg	0.0034		-	-	<0.035U	-	-	<0.072U
VOCs									
1,1,1-trichloroethane	mg/kg	0.0019	100	<0.0027U	<0.0022U	-	<0.0031U	<0.0023U	-
1,1-dichloroethane	mg/kg	0.0014	26	<0.0019U	<0.0016U	-	<0.0022U	<0.0016U	-
1,1-dichloroethene	mg/kg	0.0021	100	<0.003U	<0.0025U	-	<0.0035U	<0.0026U	-
1,2,4-trimethylbenzene	mg/kg	0.001	52	<0.0014U	<0.0012U	-	<0.0017U	<0.0012U	-
1,2-dichlorobenzene	mg/kg	0.003	100	<0.0043U	<0.0036U	-	<0.005U	<0.0037U	-
1,2-dichloroethane	mg/kg	0.0011	3.1	<0.0016U	<0.0013U	-	<0.0018U	<0.0013U	-
1,3,5-trimethylbenzene	mg/kg	0.0013	52	<0.0018U	<0.0015U	-	<0.0021U	<0.0016U	-
1,3-dichlorobenzene	mg/kg	0.0012	49	<0.0017U	<0.0014U	-	<0.002U	<0.0015U	-
1,4-dichlorobenzene	mg/kg	0.00077	13	<0.0011U	<0.0009U	-	<0.0013U	<0.00093U	-
Methyl Ethyl Ketone	mg/kg	0.0022	100	<0.0031U	<0.0026U	-	<0.0036U	<0.0026U	-
Acetone	mg/kg	0.0024	100	<0.0034U	<0.0028U	-	<0.0039U	<0.0029U	-
Benzene	mg/kg	0.0015	4.8	<0.0021U	<0.0017U	-	<0.0024U	<0.0018U	-
Carbon tetrachloride	mg/kg	0.0025	2.4	<0.0035U	<0.0029U	-	<0.0041U	<0.003U	-
Chlorobenzene	mg/kg	0.0012	100	<0.0017U	<0.0014U	-	<0.0019U	<0.0014U	-
Chloroform	mg/kg	0.0016	49	<0.0023U	<0.0019U	-	<0.0026U	<0.0019U	-
cis-1,2-dichloroethene	mg/kg	0.0012	100	<0.0017U	<0.0014U	-	<0.0019U	<0.0014U	-
Dichloromethane	mg/kg	0.0018	100	<0.0025U	<0.0021U	-	<0.0029U	<0.0021U	-
Ethylbenzene	mg/kg	0.0016	41	<0.0023U	<0.0019U	-	<0.0027U	<0.002U	-
Methyl-tert-butyl ether	mg/kg	0.0028	100	<0.0039U	<0.0033U	-	<0.0045U	<0.0034U	-
n-butylbenzene	mg/kg	0.0029	100	<0.004U	<0.0034U	-	<0.0047U	<0.0034U	-
n-propylbenzene	mg/kg	0.0016	100	<0.0023U	<0.0019U	-	<0.0026U	<0.0019U	-
sec-butylbenzene	mg/kg	0.0018	100	<0.0026U	<0.0022U	-	<0.003U	<0.0022U	-
Trichloroethene	mg/kg	0.0011	21	<0.0016U	<0.0013U	-	<0.0019U	<0.0014U	-
tert-butylbenzene	mg/kg	0.0014	100	<0.002U	<0.0016U	-	<0.0023U	<0.0017U	-
Tetrachloroethene	mg/kg	0.0015	19	<0.0021U	<0.0018U	-	<0.0025U	<0.0018U	-
Toluene	mg/kg	0.0013	100	<0.0018U	<0.0015U	-	<0.0021U	<0.0015U	-
trans-1,2-dichloroethene	mg/kg	0.0019	100	<0.0027U	<0.0022U	-	<0.0031U	<0.0023U	-
Vinyl chloride	mg/kg	0.0028	0.9	<0.0039U	<0.0033U	-	<0.0045U	<0.0033U	-
Xylene Total	mg/kg	0.0032	100	<0.0046U	<0.0038U	-	<0.0053U	<0.0039U	-

Notes:

NYSDEC DER-10 App 5 - Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010
Concentrations detected above restricted residentual use for Imported fill or soil are bolded and highlighted in grey
U non detect
J estimated value
J+ estimated value; however value is likely to higher due to higher concentration of the analyte in sample due to positive bias
J- estimated value; however value is likely to lower due to lower concentration of the analyte in sample due to negative bias
UJ non detect; however the reported quantation limit is estimated

TABLE 5
Summary of Analytical Results for Potential Reuse

Former Sperry Remington Site - North Portion
Elmira, New York

				Windrow 1-b Section 3			Windrow 1-b Section 4		
			Sample ID	W1-b, S3, A 073117	W1-b, S3, B 073117	W1-b, S3, C 073117	W1-b, S4, A 073117	W1-b, S4, B 073117	W1-b, S4, C 073117
			Sampled Date	7/31/2017	7/31/2017	7/31/2017	7/31/2017	7/31/2017	7/31/2017
Chemical Group	**Units**	**EQL**	NYSDEC DER-10 App 5						
PCBs									
Arochlor 1016	mg/kg	0.0092		-	-	<0.0098U	-	-	<0.0098U
Arochlor 1221	mg/kg	0.009		-	-	<0.0096U	-	-	<0.0096U
Arochlor 1232	mg/kg	0.0069		-	-	<0.0073U	-	-	<0.0073U
Arochlor 1242	mg/kg	0.014		-	-	<0.015U	-	-	<0.015U
Arochlor 1248	mg/kg	0.017		-	-	0.83J	-	-	1J
Arochlor 1254	mg/kg	0.017		-	-	0.6J	-	-	0.65J
Arochlor 1260	mg/kg	0.012		-	-	0.14J	-	-	0.15J
Arochlor 1268	mg/kg	0.0053		-	-	<0.0056U	-	-	<0.0057U
Arochlor 1262	mg/kg	0.012		-	-	<0.013U	-	-	<0.013U
Total PCBs	mg/kg		1	-	-	**1.6**	-	-	**1.83**
Inorganics									
Arsenic	mg/kg	1	16	-	-	8.1	-	-	7.9
Barium	mg/kg	20	400	-	-	84	-	-	84
Beryllium	mg/kg	0.41	72	-	-	0.45J	-	-	0.4J
Cadmium	mg/kg	0.12	4.3	-	-	<0.13U	-	-	<0.13U
Chromium (III+VI)	mg/kg	0.51	110	-	-	12	-	-	11
Copper	mg/kg	2.5	270	-	-	27	-	-	28
Lead	mg/kg	1	400	-	-	39	-	-	39
Manganese	mg/kg	1.5	2000	-	-	460	-	-	450
Nickel	mg/kg	4.1	310	-	-	21	-	-	21
Selenium	mg/kg	0.4	180	-	-	<0.47U	-	-	<0.45U
Silver	mg/kg	0.17	180	-	-	<0.19U	-	-	<0.19U
Zinc	mg/kg	2	10000	-	-	71	-	-	91
Mercury	mg/kg	0.028	0.81	-	-	0.081	-	-	0.067
Cyanide Total	mg/kg	0.14	27	-	-	<0.17U	-	-	<0.16U
SVOCs									
1,4-Dioxane	mg/kg	0.0053	13	-	-	<0.011U	-	-	<0.028U
2,4,5-trichlorophenol	mg/kg	0.0034		-	-	<0.007U	-	-	<0.018U
2,4,6-trichlorophenol	mg/kg	0.0031		-	-	<0.0065U	-	-	<0.016U
2,4-Dinitrotoluene	mg/kg	0.0047		-	-	<0.0098U	-	-	<0.024U
2-methylphenol	mg/kg	0.0031	100	-	-	<0.0065U	-	-	<0.016U
4-methylphenol	mg/kg	0.0031	100	-	-	<0.0065U	-	-	<0.016U
Acenaphthene	mg/kg	0.0024	100	-	-	0.011J	-	-	0.03J
Acenaphthylene	mg/kg	0.0024	100	-	-	0.13	-	-	0.49
Anthracene	mg/kg	0.0026	100	-	-	0.084	-	-	0.28
Benz(a)anthracene	mg/kg	0.0071	1	-	-	0.29	-	-	**1.2**
Benzo(a) pyrene	mg/kg	0.0071	1	-	-	0.29	-	-	**1.1**
Benzo(b)fluoranthene	mg/kg	0.0071	1	-	-	0.44	-	-	**1.3**
Benzo(g,h,i)perylene	mg/kg	0.0071	100	-	-	0.34	-	-	1
Benzo(k)fluoranthene	mg/kg	0.0071	3.9	-	-	0.15	-	-	0.63
Chrysene	mg/kg	0.0071	3.9	-	-	0.33	-	-	1.3
Dibenz(a,h)anthracene	mg/kg	0.0029	0.33	-	-	0.089	-	-	0.29
Dibenzofuran	mg/kg	0.0028	59	-	-	0.017J	-	-	0.026J
Fluoranthene	mg/kg	0.0071	100	-	-	0.52	-	-	1.9
Fluorene	mg/kg	0.0025	100	-	-	0.018	-	-	0.055
Hexachlorobenzene	mg/kg	0.0028	1.2	-	-	<0.0059U	-	-	<0.015U
Hexachlorobutadiene	mg/kg	0.0022		-	-	<0.0047U	-	-	<0.012U
Hexachloroethane	mg/kg	0.0025		-	-	<0.0053U	-	-	<0.013U
Indeno(1,2,3-c,d)pyrene	mg/kg	0.0071	0.5	-	-	0.27	-	-	**0.87**
Naphthalene	mg/kg	0.0026	100	-	-	0.066	-	-	0.1
Nitrobenzene	mg/kg	0.0027		-	-	<0.0056U	-	-	<0.014U
Pentachlorophenol	mg/kg	0.067	6.7	-	-	<0.14U	-	-	<0.35U
Phenanthrene	mg/kg	0.0071	100	-	-	0.18	-	-	0.48
Phenol	mg/kg	0.0048	100	-	-	<0.01U	-	-	<0.025U
Pyrene	mg/kg	0.0071	100	-	-	0.46	-	-	1.8
Pyridine	mg/kg	0.0034		-	-	<0.0071U	-	-	<0.018U
VOCs									
1,1,1-trichloroethane	mg/kg	0.0019	100	<0.0025U	<0.0027U	-	<0.0024U	<0.0038U	-
1,1-dichloroethane	mg/kg	0.0014	26	<0.0018U	<0.0019U	-	<0.0017U	<0.0027U	-
1,1-dichloroethene	mg/kg	0.0021	100	<0.0028U	<0.003U	-	<0.0027U	<0.0043U	-
1,2,4-trimethylbenzene	mg/kg	0.001	52	<0.0013U	<0.0014U	-	<0.0013U	<0.002U	-
1,2-dichlorobenzene	mg/kg	0.003	100	<0.004U	<0.0043U	-	<0.0038U	<0.0061U	-
1,2-dichloroethane	mg/kg	0.0011	3.1	<0.0014U	<0.0016U	-	<0.0014U	<0.0022U	-
1,3,5-trimethylbenzene	mg/kg	0.0013	52	<0.0017U	<0.0018U	-	<0.0016U	<0.0026U	-
1,3-dichlorobenzene	mg/kg	0.0012	49	<0.0016U	<0.0017U	-	<0.0015U	<0.0024U	-
1,4-dichlorobenzene	mg/kg	0.00077	13	<0.001U	<0.0011U	-	<0.00096U	<0.0015U	-
Methyl Ethyl Ketone	mg/kg	0.0022	100	<0.0029U	<0.0031U	-	<0.0027U	<0.0044U	-
Acetone	mg/kg	0.0024	100	<0.0031U	<0.0034U	-	<0.003U	<0.0047U	-
Benzene	mg/kg	0.0015	4.8	<0.0019U	<0.0021U	-	<0.0018U	<0.003U	-
Carbon tetrachloride	mg/kg	0.0025	2.4	<0.0033U	<0.0035U	-	<0.0031U	<0.005U	-
Chlorobenzene	mg/kg	0.0012	100	<0.0016U	<0.0017U	-	<0.0015U	<0.0024U	-
Chloroform	mg/kg	0.0016	49	<0.0021U	<0.0023U	-	<0.002U	<0.0032U	-
cis-1,2-dichloroethene	mg/kg	0.0012	100	<0.0016U	<0.0017U	-	<0.0015U	<0.0024U	-
Dichloromethane	mg/kg	0.0018	100	<0.0023U	<0.0025U	-	<0.0022U	<0.0036U	-
Ethylbenzene	mg/kg	0.0016	41	<0.0021U	<0.0023U	-	<0.002U	<0.0032U	-
Methyl-tert-butyl ether	mg/kg	0.0028	100	<0.0036U	<0.0039U	-	<0.0035U	<0.0055U	-
n-butylbenzene	mg/kg	0.0029	100	<0.0037U	<0.0041U	-	<0.0036U	<0.0057U	-
n-propylbenzene	mg/kg	0.0016	100	<0.0021U	<0.0023U	-	<0.002U	<0.0032U	-
sec-butylbenzene	mg/kg	0.0018	100	<0.0024U	<0.0026U	-	<0.0023U	<0.0037U	-
Trichloroethene	mg/kg	0.0011	21	<0.0015U	<0.0016U	-	<0.0014U	<0.0023U	-
tert-butylbenzene	mg/kg	0.0014	100	<0.0018U	<0.002U	-	<0.0017U	<0.0028U	-
Tetrachloroethene	mg/kg	0.0015	19	<0.002U	<0.0021U	-	<0.0019U	<0.003U	-
Toluene	mg/kg	0.0013	100	<0.0017U	<0.0018U	-	<0.0016U	<0.0025U	-
trans-1,2-dichloroethene	mg/kg	0.0019	100	<0.0025U	<0.0027U	-	<0.0024U	<0.0038U	-
Vinyl chloride	mg/kg	0.0028	0.9	<0.0036U	<0.0039U	-	<0.0034U	<0.0055U	-
Xylene Total	mg/kg	0.0032	100	<0.0042U	<0.0046U	-	<0.004U	<0.0065U	-

Notes:

NYSDEC DER-10 App 5 - Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010
Concentrations detected above restricted residentual use for Imported fill or soil are bolded and highlighted in grey
U non detect
J estimated value
J+ estimated value; however value is likely to higher due to higher concentration of the analyte in sample due to positive bias
J- estimated value; however value is likely to lower due to lower concentration of the analyte in sample due to negative bias
UJ non detect; however the reported quantation limit is estimated

TABLE 5
Summary of Analytical Results for Potential Reuse

Former Sperry Remington Site - North Portion
Elmira, New York

				Windrow 2 Section 1			Windrow 2 Section 2		
			Sample ID	W2, S1, A 71117	W2, S1, B 71117	W2, S1, C 71117	W2, S2, A 71117	W2, S2, B 71117	W2, S2, C 71117
			Sampled Date	7/11/2017	7/11/2017	7/11/2017	7/11/2017	7/11/2017	7/11/2017
Chemical Group	**Units**	**EQL**	NYSDEC DER-10 App 5						
PCBs									
Arochlor 1016	mg/kg	0.0092		-	-	<0.0098U	-	-	<0.0099U
Arochlor 1221	mg/kg	0.009		-	-	<0.0095U	-	-	<0.0097U
Arochlor 1232	mg/kg	0.0069		-	-	<0.0073U	-	-	<0.0074U
Arochlor 1242	mg/kg	0.014		-	-	<0.015U	-	-	<0.015U
Arochlor 1248	mg/kg	0.017		-	-	0.84J	-	-	0.74J
Arochlor 1254	mg/kg	0.017		-	-	0.64J	-	-	0.52J
Arochlor 1260	mg/kg	0.012		-	-	0.19J	-	-	0.2J
Arochlor 1268	mg/kg	0.0053		-	-	<0.0056U	-	-	<0.0057U
Arochlor 1262	mg/kg	0.012		-	-	<0.013U	-	-	<0.013U
Total PCBs	mg/kg		1	-	-	**1.7**	-	-	**1.49**
Inorganics									
Arsenic	mg/kg	1	16	-	-	6.6	-	-	5.8
Barium	mg/kg	20	400	-	-	84	-	-	77
Beryllium	mg/kg	0.41	72	-	-	0.35J	-	-	0.31J
Cadmium	mg/kg	0.12	4.3	-	-	0.24J	-	-	0.16J
Chromium (III+VI)	mg/kg	0.51	110	-	-	10	-	-	8.5
Copper	mg/kg	2.5	270	-	-	26J-	-	-	28
Lead	mg/kg	1	400	-	-	33	-	-	40
Manganese	mg/kg	1.5	2000	-	-	800J	-	-	320
Nickel	mg/kg	4.1	310	-	-	19	-	-	15
Selenium	mg/kg	0.4	180	-	-	0.47J	-	-	0.51J
Silver	mg/kg	0.17	180	-	-	<0.18U	-	-	<0.19U
Zinc	mg/kg	2	10000	-	-	76J	-	-	76
Mercury	mg/kg	0.028	0.81	-	-	0.41J+	-	-	0.42
Cyanide Total	mg/kg	0.14	27	-	-	<0.16U	-	-	<0.17U
SVOCs									
1,4-Dioxane	mg/kg	0.0053	13	-	-	<0.11U	-	-	<0.028U
2,4,5-trichlorophenol	mg/kg	0.0034		-	-	<0.068U	-	-	<0.018U
2,4,6-trichlorophenol	mg/kg	0.0031		-	-	<0.063U	-	-	<0.016U
2,4-Dinitrotoluene	mg/kg	0.0047		-	-	<0.095U,F2	-	-	<0.025U
2-methylphenol	mg/kg	0.0031	100	-	-	<0.063U	-	-	<0.016U
4-methylphenol	mg/kg	0.0031	100	-	-	<0.064U	-	-	<0.017U
Acenaphthene	mg/kg	0.0024	100	-	-	<0.048U	-	-	<0.013U
Acenaphthylene	mg/kg	0.0024	100	-	-	0.12J	-	-	0.15
Anthracene	mg/kg	0.0026	100	-	-	0.15J	-	-	0.19
Benz(a)anthracene	mg/kg	0.0071	1	-	-	0.59J	-	-	0.51
Benzo(a) pyrene	mg/kg	0.0071	1	-	-	0.61J	-	-	0.55
Benzo(b)fluoranthene	mg/kg	0.0071	1	-	-	0.78J	-	-	0.63
Benzo(g,h,i)perylene	mg/kg	0.0071	100	-	-	0.55J	-	-	0.68
Benzo(k)fluoranthene	mg/kg	0.0071	3.9	-	-	0.21J	-	-	0.29
Chrysene	mg/kg	0.0071	3.9	-	-	0.62J	-	-	0.47
Dibenz(a,h)anthracene	mg/kg	0.0029	0.33	-	-	0.12J	-	-	0.16
Dibenzofuran	mg/kg	0.0028	59	-	-	<0.058U	-	-	0.049J
Fluoranthene	mg/kg	0.0071	100	-	-	0.93J	-	-	0.84
Fluorene	mg/kg	0.0025	100	-	-	<0.051U	-	-	0.032J
Hexachlorobenzene	mg/kg	0.0028	1.2	-	-	<0.058U	-	-	<0.015U
Hexachlorobutadiene	mg/kg	0.0022		-	-	<0.045U	-	-	<0.012U
Hexachloroethane	mg/kg	0.0025		-	-	<0.052U,F2	-	-	<0.013U
Indeno(1,2,3-c,d)pyrene	mg/kg	0.0071	0.5	-	-	**0.5J**	-	-	**0.55**
Naphthalene	mg/kg	0.0026	100	-	-	0.16	-	-	0.17
Nitrobenzene	mg/kg	0.0027		-	-	<0.055U	-	-	<0.014U
Pentachlorophenol	mg/kg	0.067	6.7	-	-	-	-	-	<0.35U
Phenanthrene	mg/kg	0.0071	100	-	-	0.43J	-	-	0.35
Phenol	mg/kg	0.0048	100	-	-	<0.097U	-	-	<0.025U
Pyrene	mg/kg	0.0071	100	-	-	0.92J	-	-	0.72
Pyridine	mg/kg	0.0034		-	-	<0.069U	-	-	<0.018U
VOCs									
1,1,1-trichloroethane	mg/kg	0.0019	100	<0.0026U	<0.0022U	-	<0.0024U	<0.0021U	-
1,1-dichloroethane	mg/kg	0.0014	26	<0.0019U	<0.0016U	-	<0.0017U	<0.0015U	-
1,1-dichloroethene	mg/kg	0.0021	100	<0.003U	<0.0025U	-	<0.0027U	<0.0023U	-
1,2,4-trimethylbenzene	mg/kg	0.001	52	<0.0014U	<0.0012U	-	<0.0013U	<0.0011U	-
1,2-dichlorobenzene	mg/kg	0.003	100	<0.0042U	<0.0035U	-	<0.0038U	<0.0033U	-
1,2-dichloroethane	mg/kg	0.0011	3.1	<0.0015U	<0.0013U	-	<0.0014U	<0.0012U	-
1,3,5-trimethylbenzene	mg/kg	0.0013	52	<0.0018U	<0.0015U	-	<0.0016U	<0.0014U	-
1,3-dichlorobenzene	mg/kg	0.0012	49	<0.0017U	<0.0014U	-	<0.0015U	<0.0013U	-
1,4-dichlorobenzene	mg/kg	0.00077	13	<0.0011U	<0.0009U	-	<0.00097U	<0.00084U	-
Methyl Ethyl Ketone	mg/kg	0.0022	100	<0.003U	<0.0026U	-	<0.0027U	<0.0024U	-
Acetone	mg/kg	0.0024	100	<0.0033U	<0.0028U	-	<0.003U	<0.0026U	-
Benzene	mg/kg	0.0015	4.8	<0.002U	<0.0017U	-	<0.0019U	<0.0016U	-
Carbon tetrachloride	mg/kg	0.0025	2.4	<0.0034U	<0.0029U	-	<0.0031U	<0.0027U	-
Chlorobenzene	mg/kg	0.0012	100	<0.0016U	<0.0014U	-	<0.0015U	<0.0013U	-
Chloroform	mg/kg	0.0016	49	<0.0022U	<0.0019U	-	<0.002U	<0.0017U	-
cis-1,2-dichloroethene	mg/kg	0.0012	100	<0.0016U	<0.0014U	-	<0.0015U	<0.0013U	-
Dichloromethane	mg/kg	0.0018	100	<0.0024U	<0.0021U	-	<0.0022U	<0.0019U	-
Ethylbenzene	mg/kg	0.0016	41	<0.0022U	<0.0019U	-	<0.002U	<0.0018U	-
Methyl-tert-butyl ether	mg/kg	0.0028	100	<0.0038U	<0.0032U	-	<0.0035U	<0.003U	-
n-butylbenzene	mg/kg	0.0029	100	<0.0039U	<0.0033U	-	<0.0036U	<0.0031U	-
n-propylbenzene	mg/kg	0.0016	100	<0.0022U	<0.0019U	-	<0.002U	<0.0017U	-
sec-butylbenzene	mg/kg	0.0018	100	<0.0025U	<0.0021U	-	<0.0023U	<0.002U	-
Trichloroethene	mg/kg	0.0011	21	<0.0016U	<0.0013U	-	<0.0014U	<0.0012U	-
tert-butylbenzene	mg/kg	0.0014	100	<0.0019U	<0.0016U	-	<0.0017U	<0.0015U	-
Tetrachloroethene	mg/kg	0.0015	19	<0.0021U	<0.0018U	-	<0.0019U	<0.0016U	-
Toluene	mg/kg	0.0013	100	<0.0017U	<0.0015U	-	<0.0016U	<0.0014U	-
trans-1,2-dichloroethene	mg/kg	0.0019	100	<0.0026U	<0.0022U	-	<0.0024U	<0.0021U	-
Vinyl chloride	mg/kg	0.0028	0.9	<0.0038U	<0.0032U	-	<0.0035U	<0.003U	-
Xylene Total	mg/kg	0.0032	100	<0.0045U	<0.0038U	-	<0.0041U	<0.0035U	-

Notes:

NYSDEC DER-10 App 5 - Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010
Concentrations detected above restricted residentual use for Imported fill or soil are bolded and highlighted in grey
U non detect
J estimated value
J+ estimated value; however value is likely to higher due to higher concentration of the analyte in sample due to positive bias
J- estimated value; however value is likely to lower due to lower concentration of the analyte in sample due to negative bias
UJ non detect; however the reported quantation limit is estimated

TABLE 5
Summary of Analytical Results for Potential Reuse

Former Sperry Remington Site - North Portion
Elmira, New York

				Windrow 2 Section 3			Windrow 2 Section 4		
			Sample ID	W2, S3, A 71117	W2, S3, B 71117	W2, S3, C 71117	W2, S4, A 71117	W2, S4, B 71117	W2, S4, C 71117
			Sampled Date	7/11/2017	7/11/2017	7/11/2017	7/11/2017	7/11/2017	7/11/2017
Chemical Group	**Units**	**EQL**	NYSDEC DER-10 App 5						
PCBs									
Arochlor 1016	mg/kg	0.0092		-	-	<0.0097U	-	-	<0.0097U
Arochlor 1221	mg/kg	0.009		-	-	<0.0095U	-	-	<0.0094U
Arochlor 1232	mg/kg	0.0069		-	-	<0.0073U	-	-	<0.0072U
Arochlor 1242	mg/kg	0.014		-	-	<0.015U	-	-	<0.014U
Arochlor 1248	mg/kg	0.017		-	-	0.69J	-	-	0.7J
Arochlor 1254	mg/kg	0.017		-	-	0.56J	-	-	0.48J
Arochlor 1260	mg/kg	0.012		-	-	0.16J	-	-	0.16J
Arochlor 1268	mg/kg	0.0053		-	-	<0.0056U	-	-	<0.0055U
Arochlor 1262	mg/kg	0.012		-	-	<0.013U	-	-	<0.013U
Total PCBs	mg/kg		1	-	-	**1.44**	-	-	**1.369**
Inorganics									
Arsenic	mg/kg	1	16	-	-	6.4	-	-	5.5J
Barium	mg/kg	20	400	-	-	80	-	-	86
Beryllium	mg/kg	0.41	72	-	-	0.33J	-	-	0.32J
Cadmium	mg/kg	0.12	4.3	-	-	0.14J	-	-	0.16J
Chromium (III+VI)	mg/kg	0.51	110	-	-	8.5	-	-	7.9
Copper	mg/kg	2.5	270	-	-	86	-	-	32
Lead	mg/kg	1	400	-	-	50	-	-	36
Manganese	mg/kg	1.5	2000	-	-	340	-	-	360
Nickel	mg/kg	4.1	310	-	-	19	-	-	14J
Selenium	mg/kg	0.4	180	-	-	<0.43U	-	-	0.84J
Silver	mg/kg	0.17	180	-	-	<0.18U	-	-	<0.17U
Zinc	mg/kg	2	10000	-	-	81	-	-	69
Mercury	mg/kg	0.028	0.81	-	-	0.46	-	-	0.65
Cyanide Total	mg/kg	0.14	27	-	-	<0.16U	-	-	0.29J
SVOCs									
1,4-Dioxane	mg/kg	0.0053	13	-	-	<0.054U	-	-	<0.027U
2,4,5-trichlorophenol	mg/kg	0.0034		-	-	<0.034U	-	-	<0.017U
2,4,6-trichlorophenol	mg/kg	0.0031		-	-	<0.031U	-	-	<0.016U
2,4-Dinitrotoluene	mg/kg	0.0047		-	-	<0.047U	-	-	<0.024U
2-methylphenol	mg/kg	0.0031	100	-	-	<0.032U	-	-	<0.016U
4-methylphenol	mg/kg	0.0031	100	-	-	<0.032U	-	-	<0.016U
Acenaphthene	mg/kg	0.0024	100	-	-	<0.024U	-	-	0.014J
Acenaphthylene	mg/kg	0.0024	100	-	-	0.23	-	-	0.18
Anthracene	mg/kg	0.0026	100	-	-	0.27	-	-	0.21
Benz(a)anthracene	mg/kg	0.0071	1	-	-	0.71	-	-	0.68
Benzo(a) pyrene	mg/kg	0.0071	1	-	-	0.72	-	-	0.69
Benzo(b)fluoranthene	mg/kg	0.0071	1	-	-	0.99	-	-	0.8
Benzo(g,h,i)perylene	mg/kg	0.0071	100	-	-	0.86	-	-	0.84
Benzo(k)fluoranthene	mg/kg	0.0071	3.9	-	-	0.22	-	-	0.34
Chrysene	mg/kg	0.0071	3.9	-	-	0.73	-	-	0.67
Dibenz(a,h)anthracene	mg/kg	0.0029	0.33	-	-	0.18	-	-	0.19
Dibenzofuran	mg/kg	0.0028	59	-	-	0.065J	-	-	0.057J
Fluoranthene	mg/kg	0.0071	100	-	-	1.2	-	-	1.1
Fluorene	mg/kg	0.0025	100	-	-	0.037J	-	-	0.039
Hexachlorobenzene	mg/kg	0.0028	1.2	-	-	<0.029U	-	-	<0.015U
Hexachlorobutadiene	mg/kg	0.0022		-	-	<0.023U	-	-	<0.011U
Hexachloroethane	mg/kg	0.0025		-	-	<0.026U	-	-	<0.013U
Indeno(1,2,3-c,d)pyrene	mg/kg	0.0071	0.5	-	-	**0.72**	-	-	**0.71**
Naphthalene	mg/kg	0.0026	100	-	-	0.22	-	-	0.21
Nitrobenzene	mg/kg	0.0027		-	-	<0.027U	-	-	<0.014U
Pentachlorophenol	mg/kg	0.067	6.7	-	-	<0.68U	-	-	<0.34U
Phenanthrene	mg/kg	0.0071	100	-	-	0.56	-	-	0.5
Phenol	mg/kg	0.0048	100	-	-	<0.048U	-	-	<0.025U
Pyrene	mg/kg	0.0071	100	-	-	1.1	-	-	0.97
Pyridine	mg/kg	0.0034		-	-	<0.034U	-	-	<0.017U
VOCs									
1,1,1-trichloroethane	mg/kg	0.0019	100	<0.004U	<0.0025U	-	<0.002U	<0.003U	-
1,1-dichloroethane	mg/kg	0.0014	26	<0.0029U	<0.0018U	-	<0.0015U	<0.0022U	-
1,1-dichloroethene	mg/kg	0.0021	100	<0.0045U	<0.0029U	-	<0.0023U	<0.0034U	-
1,2,4-trimethylbenzene	mg/kg	0.001	52	<0.0021U	<0.0014U	-	<0.0011U	<0.0016U	-
1,2-dichlorobenzene	mg/kg	0.003	100	<0.0064U	<0.0041U	-	<0.0033U	<0.0048U	-
1,2-dichloroethane	mg/kg	0.0011	3.1	<0.0023U	<0.0015U	-	<0.0012U	<0.0017U	-
1,3,5-trimethylbenzene	mg/kg	0.0013	52	<0.0027U	<0.0017U	-	<0.0014U	<0.0021U	-
1,3-dichlorobenzene	mg/kg	0.0012	49	<0.0025U	<0.0016U	-	<0.0013U	<0.0019U	-
1,4-dichlorobenzene	mg/kg	0.00077	13	<0.0016U	<0.001U	-	<0.00082U	<0.0012U	-
Methyl Ethyl Ketone	mg/kg	0.0022	100	<0.0046U	<0.0029U	-	<0.0023U	<0.0035U	-
Acetone	mg/kg	0.0024	100	<0.005U	<0.0032U	-	<0.0025U	<0.0038U	-
Benzene	mg/kg	0.0015	4.8	<0.0031U	<0.002U	-	<0.0016U	<0.0024U	-
Carbon tetrachloride	mg/kg	0.0025	2.4	<0.0052U	<0.0033U	-	<0.0027U	<0.004U	-
Chlorobenzene	mg/kg	0.0012	100	<0.0025U	<0.0016U	-	<0.0013U	<0.0019U	-
Chloroform	mg/kg	0.0016	49	<0.0033U	<0.0021U	-	<0.0017U	<0.0025U	-
cis-1,2-dichloroethene	mg/kg	0.0012	100	<0.0025U	<0.0016U	-	<0.0013U	<0.0019U	-
Dichloromethane	mg/kg	0.0018	100	<0.0037U	<0.0024U	-	<0.0019U	<0.0028U	-
Ethylbenzene	mg/kg	0.0016	41	<0.0034U	<0.0022U	-	<0.0017U	<0.0026U	-
Methyl-tert-butyl ether	mg/kg	0.0028	100	<0.0058U	<0.0037U	-	<0.003U	<0.0044U	-
n-butylbenzene	mg/kg	0.0029	100	<0.006U	<0.0038U	-	<0.0031U	<0.0045U	-
n-propylbenzene	mg/kg	0.0016	100	<0.0033U	<0.0021U	-	<0.0017U	<0.0025U	-
sec-butylbenzene	mg/kg	0.0018	100	<0.0039U	<0.0025U	-	<0.002U	<0.0029U	-
Trichloroethene	mg/kg	0.0011	21	<0.0024U	<0.0015U	-	<0.0012U	<0.0018U	-
tert-butylbenzene	mg/kg	0.0014	100	<0.0029U	<0.0018U	-	<0.0015U	<0.0022U	-
Tetrachloroethene	mg/kg	0.0015	19	<0.0032U	<0.002U	-	<0.0016U	<0.0024U	-
Toluene	mg/kg	0.0013	100	<0.0027U	<0.0017U	-	<0.0014U	<0.002U	-
trans-1,2-dichloroethene	mg/kg	0.0019	100	<0.004U	<0.0026U	-	<0.002U	<0.003U	-
Vinyl chloride	mg/kg	0.0028	0.9	<0.0058U	<0.0037U	-	<0.003U	<0.0044U	-
Xylene Total	mg/kg	0.0032	100	<0.0068U	<0.0043U	-	<0.0035U	<0.0052U	-

Notes:

NYSDEC DER-10 App 5 - Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010
Concentrations detected above restricted residentual use for Imported fill or soil are bolded and highlighted in grey
U non detect
J estimated value
J+ estimated value; however value is likely to higher due to higher concentration of the analyte in sample due to positive bias
J- estimated value; however value is likely to lower due to lower concentration of the analyte in sample due to negative bias
UJ non detect; however the reported quantation limit is estimated

TABLE 5
Summary of Analytical Results for Potential Reuse

Former Sperry Remington Site - North Portion
Elmira, New York

				Windrow 2 Section 5			Windrow 3 Section 1		
			Sample ID	W2, S5 A 71117	W2, S5 B 71117	W2, S5 C 71117	W3, S1 A 71117	W3, S1 B 71117	W3, S1, C 71117
			Sampled Date	7/11/2017	7/11/2017	7/11/2017	7/11/2017	7/11/2017	7/11/2017
Chemical Group	**Units**	**EQL**	NYSDEC DER-10 App 5						
PCBs									
Arochlor 1016	mg/kg	0.0092		-	-	<0.0094U	-	-	<0.0095U
Arochlor 1221	mg/kg	0.009		-	-	<0.0092U	-	-	<0.0093U
Arochlor 1232	mg/kg	0.0069		-	-	<0.007U	-	-	<0.0071U
Arochlor 1242	mg/kg	0.014		-	-	<0.014U	-	-	<0.014U
Arochlor 1248	mg/kg	0.017		-	-	0.7J	-	-	0.67J
Arochlor 1254	mg/kg	0.017		-	-	0.48J	-	-	0.47J
Arochlor 1260	mg/kg	0.012		-	-	0.17J	-	-	0.17J
Arochlor 1268	mg/kg	0.0053		-	-	<0.0054U	-	-	<0.0055U
Arochlor 1262	mg/kg	0.012		-	-	<0.013U	-	-	<0.013U
Total PCBs	mg/kg		1	-	-	**1.379**	-	-	**1.339**
Inorganics									
Arsenic	mg/kg	1	16	-	-	5.4	-	-	6.9
Barium	mg/kg	20	400	-	-	69	-	-	79
Beryllium	mg/kg	0.41	72	-	-	0.27J	-	-	0.3J
Cadmium	mg/kg	0.12	4.3	-	-	0.17J	-	-	0.22J
Chromium (III+VI)	mg/kg	0.51	110	-	-	8.7	-	-	9.6
Copper	mg/kg	2.5	270	-	-	34	-	-	58
Lead	mg/kg	1	400	-	-	44	-	-	51
Manganese	mg/kg	1.5	2000	-	-	270	-	-	400
Nickel	mg/kg	4.1	310	-	-	13	-	-	16
Selenium	mg/kg	0.4	180	-	-	<0.41U	-	-	0.54J
Silver	mg/kg	0.17	180	-	-	<0.17U	-	-	<0.19U
Zinc	mg/kg	2	10000	-	-	75	-	-	83
Mercury	mg/kg	0.028	0.81	-	-	0.69	-	-	0.65
Cyanide Total	mg/kg	0.14	27	-	-	<0.16U	-	-	<0.16U
SVOCs									
1,4-Dioxane	mg/kg	0.0053	13	-	-	<0.027U	-	-	<0.054U
2,4,5-trichlorophenol	mg/kg	0.0034		-	-	<0.017U	-	-	<0.034U
2,4,6-trichlorophenol	mg/kg	0.0031		-	-	<0.016U	-	-	<0.031U
2,4-Dinitrotoluene	mg/kg	0.0047		-	-	<0.024U	-	-	<0.047U
2-methylphenol	mg/kg	0.0031	100	-	-	<0.016U	-	-	<0.032U
4-methylphenol	mg/kg	0.0031	100	-	-	0.019J	-	-	<0.032U
Acenaphthene	mg/kg	0.0024	100	-	-	0.063	-	-	0.1
Acenaphthylene	mg/kg	0.0024	100	-	-	0.4	-	-	0.55
Anthracene	mg/kg	0.0026	100	-	-	1.5	-	-	2.3
Benz(a)anthracene	mg/kg	0.0071	1	-	-	**2.3**	-	-	**2.2**
Benzo(a) pyrene	mg/kg	0.0071	1	-	-	**1.9**	-	-	**2**
Benzo(b)fluoranthene	mg/kg	0.0071	1	-	-	**2.2**	-	-	**2.2**
Benzo(g,h,i)perylene	mg/kg	0.0071	100	-	-	1.9	-	-	2
Benzo(k)fluoranthene	mg/kg	0.0071	3.9	-	-	0.88	-	-	0.86
Chrysene	mg/kg	0.0071	3.9	-	-	2.1	-	-	2
Dibenz(a,h)anthracene	mg/kg	0.0029	0.33	-	-	**0.41**	-	-	**0.38**
Dibenzofuran	mg/kg	0.0028	59	-	-	0.17J	-	-	0.27J
Fluoranthene	mg/kg	0.0071	100	-	-	5.7	-	-	5.5
Fluorene	mg/kg	0.0025	100	-	-	0.23	-	-	0.27
Hexachlorobenzene	mg/kg	0.0028	1.2	-	-	<0.015U	-	-	<0.029U
Hexachlorobutadiene	mg/kg	0.0022		-	-	<0.011U	-	-	<0.023U
Hexachloroethane	mg/kg	0.0025		-	-	<0.013U	-	-	<0.026U
Indeno(1,2,3-c,d)pyrene	mg/kg	0.0071	0.5	-	-	**1.7**	-	-	**1.7**
Naphthalene	mg/kg	0.0026	100	-	-	0.38	-	-	0.38
Nitrobenzene	mg/kg	0.0027		-	-	<0.014U	-	-	<0.027U
Pentachlorophenol	mg/kg	0.067	6.7	-	-	<0.34U	-	-	<0.68U
Phenanthrene	mg/kg	0.0071	100	-	-	3.7	-	-	5
Phenol	mg/kg	0.0048	100	-	-	<0.025U	-	-	<0.048U
Pyrene	mg/kg	0.0071	100	-	-	3.8	-	-	3.7
Pyridine	mg/kg	0.0034		-	-	<0.017U	-	-	<0.034U
VOCs									
1,1,1-trichloroethane	mg/kg	0.0019	100	<0.0054U	<0.002U	-	<0.0028U	<0.0037U	-
1,1-dichloroethane	mg/kg	0.0014	26	<0.0039U	<0.0014U	-	<0.0021U	<0.0027U	-
1,1-dichloroethene	mg/kg	0.0021	100	<0.0061U	<0.0023U	-	<0.0032U	<0.0042U	-
1,2,4-trimethylbenzene	mg/kg	0.001	52	<0.0029U	<0.0011U	-	<0.0015U	<0.002U	-
1,2-dichlorobenzene	mg/kg	0.003	100	<0.0086U	<0.0032U	-	<0.0046U	<0.006U	-
1,2-dichloroethane	mg/kg	0.0011	3.1	<0.0031U	<0.0012U	-	<0.0016U	<0.0022U	-
1,3,5-trimethylbenzene	mg/kg	0.0013	52	<0.0037U	<0.0014U	-	<0.002U	<0.0026U	-
1,3-dichlorobenzene	mg/kg	0.0012	49	<0.0034U	<0.0013U	-	<0.0018U	<0.0024U	-
1,4-dichlorobenzene	mg/kg	0.00077	13	<0.0022U	<0.00081U	-	<0.0012U	<0.0015U	-
Methyl Ethyl Ketone	mg/kg	0.0022	100	<0.0062U	<0.0023U	-	<0.0033U	<0.0043U	-
Acetone	mg/kg	0.0024	100	<0.0067U	<0.0025U	-	<0.0036U	<0.0047U	-
Benzene	mg/kg	0.0015	4.8	<0.0042U	<0.0016U	-	<0.0022U	<0.0029U	-
Carbon tetrachloride	mg/kg	0.0025	2.4	<0.0071U	<0.0026U	-	<0.0038U	<0.0049U	-
Chlorobenzene	mg/kg	0.0012	100	<0.0034U	<0.0013U	-	<0.0018U	<0.0023U	-
Chloroform	mg/kg	0.0016	49	<0.0045U	<0.0017U	-	<0.0024U	<0.0031U	-
cis-1,2-dichloroethene	mg/kg	0.0012	100	<0.0034U	<0.0013U	-	<0.0018U	<0.0023U	-
Dichloromethane	mg/kg	0.0018	100	<0.005U	<0.0019U	-	<0.0027U	<0.0035U	-
Ethylbenzene	mg/kg	0.0016	41	<0.0046U	<0.0017U	-	<0.0024U	<0.0032U	-
Methyl-tert-butyl ether	mg/kg	0.0028	100	<0.0079U	<0.0029U	-	<0.0042U	<0.0055U	-
n-butylbenzene	mg/kg	0.0029	100	<0.0081U	<0.003U	-	<0.0043U	<0.0056U	-
n-propylbenzene	mg/kg	0.0016	100	<0.0045U	<0.0017U	-	<0.0024U	<0.0031U	-
sec-butylbenzene	mg/kg	0.0018	100	<0.0052U	<0.0019U	-	<0.0028U	<0.0036U	-
Trichloroethene	mg/kg	0.0011	21	<0.0032U	<0.0012U	-	<0.0017U	<0.0022U	-
tert-butylbenzene	mg/kg	0.0014	100	<0.0039U	<0.0015U	-	<0.0021U	<0.0027U	-
Tetrachloroethene	mg/kg	0.0015	19	<0.0043U	<0.0016U	-	<0.0023U	<0.003U	-
Toluene	mg/kg	0.0013	100	<0.0036U	<0.0013U	-	<0.0019U	<0.0025U	-
trans-1,2-dichloroethene	mg/kg	0.0019	100	<0.0054U	<0.002U	-	<0.0029U	<0.0038U	-
Vinyl chloride	mg/kg	0.0028	0.9	<0.0078U	<0.0029U	-	<0.0042U	<0.0055U	-
Xylene Total	mg/kg	0.0032	100	<0.0092U	<0.0034U	-	<0.0049U	<0.0064U	-

Notes:

NYSDEC DER-10 App 5 - Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010
Concentrations detected above restricted residentual use for Imported fill or soil are bolded and highlighted in grey
U non detect
J estimated value
J+ estimated value; however value is likely to higher due to higher concentration of the analyte in sample due to positive bias
J- estimated value; however value is likely to lower due to lower concentration of the analyte in sample due to negative bias
UJ non detect; however the reported quantation limit is estimated

TABLE 5
Summary of Analytical Results for Potential Reuse

Former Sperry Remington Site - North Portion
Elmira, New York

				Windrow 3 Section 2			Windrow 3 Section 3		
			Sample ID	W3, S2, A 71117	W3, S2, B 71117	W3, S2, C 71117	W3, S3, A 71117	W3, S3, B 71117	W3, S3, C 71117
			Sampled Date	7/11/2017	7/11/2017	7/11/2017	7/11/2017	7/11/2017	7/11/2017
Chemical Group	**Units**	**EQL**	NYSDEC DER-10 App 5						
PCBs									
Arochlor 1016	mg/kg	0.0092		-	-	<0.0095U	-	-	<0.0096U
Arochlor 1221	mg/kg	0.009		-	-	<0.0093U	-	-	<0.0094U
Arochlor 1232	mg/kg	0.0069		-	-	<0.0071U	-	-	<0.0072U
Arochlor 1242	mg/kg	0.014		-	-	<0.014U	-	-	<0.014U
Arochlor 1248	mg/kg	0.017		-	-	0.65J	-	-	0.88J
Arochlor 1254	mg/kg	0.017		-	-	0.44J	-	-	0.59J
Arochlor 1260	mg/kg	0.012		-	-	0.15J	-	-	0.17J
Arochlor 1268	mg/kg	0.0053		-	-	<0.0055U	-	-	<0.0055U
Arochlor 1262	mg/kg	0.012		-	-	<0.013U	-	-	<0.013U
Total PCBs	mg/kg		1	-	-	**1.269**	-	-	**1.669**
Inorganics									
Arsenic	mg/kg	1	16	-	-	6.8	-	-	5.6
Barium	mg/kg	20	400	-	-	69	-	-	77
Beryllium	mg/kg	0.41	72	-	-	0.27J	-	-	0.27J
Cadmium	mg/kg	0.12	4.3	-	-	0.13J	-	-	0.17J
Chromium (III+VI)	mg/kg	0.51	110	-	-	8.1	-	-	8.2
Copper	mg/kg	2.5	270	-	-	35	-	-	38
Lead	mg/kg	1	400	-	-	46	-	-	42
Manganese	mg/kg	1.5	2000	-	-	320	-	-	340
Nickel	mg/kg	4.1	310	-	-	14	-	-	16
Selenium	mg/kg	0.4	180	-	-	<0.43U	-	-	0.9J
Silver	mg/kg	0.17	180	-	-	<0.18U	-	-	<0.17U
Zinc	mg/kg	2	10000	-	-	69	-	-	75
Mercury	mg/kg	0.028	0.81	-	-	0.61	-	-	0.48
Cyanide Total	mg/kg	0.14	27	-	-	0.18J	-	-	0.93
SVOCs									
1,4-Dioxane	mg/kg	0.0053	13	-	-	<0.054U	-	-	<0.055U
2,4,5-trichlorophenol	mg/kg	0.0034		-	-	<0.034U	-	-	<0.035U
2,4,6-trichlorophenol	mg/kg	0.0031		-	-	<0.032U	-	-	<0.032U
2,4-Dinitrotoluene	mg/kg	0.0047		-	-	<0.048U	-	-	<0.048U
2-methylphenol	mg/kg	0.0031	100	-	-	<0.032U	-	-	<0.032U
4-methylphenol	mg/kg	0.0031	100	-	-	<0.032U	-	-	<0.032U
Acenaphthene	mg/kg	0.0024	100	-	-	<0.024U	-	-	<0.025U
Acenaphthylene	mg/kg	0.0024	100	-	-	0.1	-	-	0.13
Anthracene	mg/kg	0.0026	100	-	-	0.12	-	-	0.15
Benz(a)anthracene	mg/kg	0.0071	1	-	-	0.53	-	-	0.64
Benzo(a) pyrene	mg/kg	0.0071	1	-	-	0.56	-	-	0.72
Benzo(b)fluoranthene	mg/kg	0.0071	1	-	-	0.77	-	-	0.84
Benzo(g,h,i)perylene	mg/kg	0.0071	100	-	-	0.54	-	-	0.73
Benzo(k)fluoranthene	mg/kg	0.0071	3.9	-	-	0.21	-	-	0.38
Chrysene	mg/kg	0.0071	3.9	-	-	0.51	-	-	0.56
Dibenz(a,h)anthracene	mg/kg	0.0029	0.33	-	-	0.12	-	-	0.19
Dibenzofuran	mg/kg	0.0028	59	-	-	0.064J	-	-	0.07J
Fluoranthene	mg/kg	0.0071	100	-	-	0.73	-	-	0.92
Fluorene	mg/kg	0.0025	100	-	-	0.033J	-	-	0.042J
Hexachlorobenzene	mg/kg	0.0028	1.2	-	-	<0.029U	-	-	<0.029U
Hexachlorobutadiene	mg/kg	0.0022		-	-	<0.023U	-	-	<0.023U
Hexachloroethane	mg/kg	0.0025		-	-	<0.026U	-	-	<0.026U
Indeno(1,2,3-c,d)pyrene	mg/kg	0.0071	0.5	-	-	0.48	-	-	**0.61**
Naphthalene	mg/kg	0.0026	100	-	-	0.16	-	-	0.18
Nitrobenzene	mg/kg	0.0027		-	-	<0.027U	-	-	<0.028U
Pentachlorophenol	mg/kg	0.067	6.7	-	-	<0.68U	-	-	<0.69U
Phenanthrene	mg/kg	0.0071	100	-	-	0.39	-	-	0.46
Phenol	mg/kg	0.0048	100	-	-	<0.049U	-	-	<0.049U
Pyrene	mg/kg	0.0071	100	-	-	0.88	-	-	1.1
Pyridine	mg/kg	0.0034		-	-	<0.034U	-	-	<0.035U
VOCs									
1,1,1-trichloroethane	mg/kg	0.0019	100	<0.0026U	<0.0025U	-	<0.003U	<0.0028U	-
1,1-dichloroethane	mg/kg	0.0014	26	<0.0019U	<0.0018U	-	<0.0022U	<0.002U	-
1,1-dichloroethene	mg/kg	0.0021	100	<0.003U	<0.0028U	-	<0.0034U	<0.0031U	-
1,2,4-trimethylbenzene	mg/kg	0.001	52	<0.0014U	<0.0013U	-	<0.0016U	<0.0015U	-
1,2-dichlorobenzene	mg/kg	0.003	100	<0.0042U	<0.004U	-	<0.0048U	<0.0044U	-
1,2-dichloroethane	mg/kg	0.0011	3.1	<0.0015U	<0.0014U	-	<0.0017U	<0.0016U	-
1,3,5-trimethylbenzene	mg/kg	0.0013	52	<0.0018U	<0.0017U	-	<0.0021U	<0.0019U	-
1,3-dichlorobenzene	mg/kg	0.0012	49	<0.0017U	<0.0016U	-	<0.0019U	<0.0018U	-
1,4-dichlorobenzene	mg/kg	0.00077	13	<0.0011U	<0.001U	-	<0.0012U	<0.0011U	-
Methyl Ethyl Ketone	mg/kg	0.0022	100	<0.003U	<0.0029U	-	<0.0035U	<0.0032U	-
Acetone	mg/kg	0.0024	100	<0.0033U	<0.0031U	-	<0.0038U	<0.0035U	-
Benzene	mg/kg	0.0015	4.8	<0.002U	<0.002U	-	<0.0024U	<0.0022U	-
Carbon tetrachloride	mg/kg	0.0025	2.4	<0.0034U	<0.0033U	-	<0.004U	<0.0037U	-
Chlorobenzene	mg/kg	0.0012	100	<0.0016U	<0.0016U	-	<0.0019U	<0.0017U	-
Chloroform	mg/kg	0.0016	49	<0.0022U	<0.0021U	-	<0.0025U	<0.0023U	-
cis-1,2-dichloroethene	mg/kg	0.0012	100	<0.0016U	<0.0016U	-	<0.0019U	<0.0017U	-
Dichloromethane	mg/kg	0.0018	100	<0.0024U	<0.0024U	-	<0.0028U	<0.0026U	-
Ethylbenzene	mg/kg	0.0016	41	<0.0022U	<0.0021U	-	<0.0026U	<0.0024U	-
Methyl-tert-butyl ether	mg/kg	0.0028	100	<0.0038U	<0.0037U	-	<0.0044U	<0.0041U	-
n-butylbenzene	mg/kg	0.0029	100	<0.0039U	<0.0038U	-	<0.0045U	<0.0042U	-
n-propylbenzene	mg/kg	0.0016	100	<0.0022U	<0.0021U	-	<0.0025U	<0.0023U	-
sec-butylbenzene	mg/kg	0.0018	100	<0.0025U	<0.0024U	-	<0.0029U	<0.0027U	-
Trichloroethene	mg/kg	0.0011	21	<0.0016U	<0.0015U	-	<0.0018U	<0.0017U	-
tert-butylbenzene	mg/kg	0.0014	100	<0.0019U	<0.0018U	-	<0.0022U	<0.002U	-
Tetrachloroethene	mg/kg	0.0015	19	<0.0021U	<0.002U	-	<0.0024U	<0.0022U	-
Toluene	mg/kg	0.0013	100	<0.0017U	<0.0017U	-	<0.002U	<0.0019U	-
trans-1,2-dichloroethene	mg/kg	0.0019	100	<0.0026U	<0.0025U	-	<0.003U	<0.0028U	-
Vinyl chloride	mg/kg	0.0028	0.9	<0.0038U	<0.0037U	-	<0.0044U	<0.0041U	-
Xylene Total	mg/kg	0.0032	100	<0.0045U	<0.0043U	-	<0.0052U	<0.0048U	-

Notes:

NYSDEC DER-10 App 5 - Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010
Concentrations detected above restricted residentual use for Imported fill or soil are bolded and highlighted in grey
U non detect
J estimated value
J+ estimated value; however value is likely to higher due to higher concentration of the analyte in sample due to positive bias
J- estimated value; however value is likely to lower due to lower concentration of the analyte in sample due to negative bias
UJ non detect; however the reported quantation limit is estimated

TABLE 5
Summary of Analytical Results for Potential Reuse

Former Sperry Remington Site - North Portion
Elmira, New York

				Windrwo 3 Section 4			Windrow 3 Section 5		
			Sample ID	W3, S4, A 71117	W3, S4, B 71117	W3, S4, C 71117	W3, S5, A 71117	W3, S5, B 71117	W3, S5, C 71117
			Sampled Date	7/11/2017	7/11/2017	7/11/2017	7/11/2017	7/11/2017	7/11/2017
Chemical Group	**Units**	**EQL**	NYSDEC DER-10 App 5						
PCBs									
Arochlor 1016	mg/kg	0.0092		-	-	<0.0096U	-	-	<0.0093U
Arochlor 1221	mg/kg	0.009		-	-	<0.0094U	-	-	<0.0091U
Arochlor 1232	mg/kg	0.0069		-	-	<0.0072U	-	-	<0.0069U
Arochlor 1242	mg/kg	0.014		-	-	<0.014U	-	-	<0.014U
Arochlor 1248	mg/kg	0.017		-	-	0.93J	-	-	0.93J
Arochlor 1254	mg/kg	0.017		-	-	0.61J	-	-	0.61J
Arochlor 1260	mg/kg	0.012		-	-	0.19J	-	-	0.18J
Arochlor 1268	mg/kg	0.0053		-	-	<0.0055U	-	-	<0.0053U
Arochlor 1262	mg/kg	0.012		-	-	<0.013U	-	-	<0.013U
Total PCBs	mg/kg		1	-	-	**1.759**	-	-	**1.749**
Inorganics									
Arsenic	mg/kg	1	16	-	-	5.8	-	-	6.2
Barium	mg/kg	20	400	-	-	79	-	-	87
Beryllium	mg/kg	0.41	72	-	-	0.27J	-	-	0.29J
Cadmium	mg/kg	0.12	4.3	-	-	0.14J	-	-	0.19J
Chromium (III+VI)	mg/kg	0.51	110	-	-	8.2	-	-	7.8
Copper	mg/kg	2.5	270	-	-	37	-	-	30
Lead	mg/kg	1	400	-	-	53	-	-	46
Manganese	mg/kg	1.5	2000	-	-	400	-	-	290
Nickel	mg/kg	4.1	310	-	-	15	-	-	16
Selenium	mg/kg	0.4	180	-	-	<0.43U	-	-	<0.42U
Silver	mg/kg	0.17	180	-	-	<0.18U	-	-	<0.17U
Zinc	mg/kg	2	10000	-	-	78	-	-	76
Mercury	mg/kg	0.028	0.81	-	-	0.77	-	-	0.49
Cyanide Total	mg/kg	0.14	27	-	-	<0.17U	-	-	<0.17U
SVOCs									
1,4-Dioxane	mg/kg	0.0053	13	-	-	<0.056U	-	-	<0.054U
2,4,5-trichlorophenol	mg/kg	0.0034		-	-	<0.035U	-	-	<0.034U
2,4,6-trichlorophenol	mg/kg	0.0031		-	-	<0.032U	-	-	<0.032U
2,4-Dinitrotoluene	mg/kg	0.0047		-	-	<0.049U	-	-	<0.048U
2-methylphenol	mg/kg	0.0031	100	-	-	<0.033U	-	-	<0.032U
4-methylphenol	mg/kg	0.0031	100	-	-	<0.033U	-	-	<0.032U
Acenaphthene	mg/kg	0.0024	100	-	-	<0.025U	-	-	<0.024U
Acenaphthylene	mg/kg	0.0024	100	-	-	0.15	-	-	0.19
Anthracene	mg/kg	0.0026	100	-	-	0.19	-	-	0.26
Benz(a)anthracene	mg/kg	0.0071	1	-	-	0.74	-	-	0.96
Benzo(a) pyrene	mg/kg	0.0071	1	-	-	0.73	-	-	0.9
Benzo(b)fluoranthene	mg/kg	0.0071	1	-	-	0.96	-	-	**1.1**
Benzo(g,h,i)perylene	mg/kg	0.0071	100	-	-	0.75	-	-	0.97
Benzo(k)fluoranthene	mg/kg	0.0071	3.9	-	-	0.31	-	-	0.47
Chrysene	mg/kg	0.0071	3.9	-	-	0.7	-	-	0.88
Dibenz(a,h)anthracene	mg/kg	0.0029	0.33	-	-	0.14	-	-	0.24
Dibenzofuran	mg/kg	0.0028	59	-	-	0.068J	-	-	0.072J
Fluoranthene	mg/kg	0.0071	100	-	-	1	-	-	1.4
Fluorene	mg/kg	0.0025	100	-	-	0.041J	-	-	0.042J
Hexachlorobenzene	mg/kg	0.0028	1.2	-	-	<0.03U	-	-	<0.029U
Hexachlorobutadiene	mg/kg	0.0022		-	-	<0.023U	-	-	<0.023U
Hexachloroethane	mg/kg	0.0025		-	-	<0.026U	-	-	<0.026U
Indeno(1,2,3-c,d)pyrene	mg/kg	0.0071	0.5	-	-	**0.66**	-	-	**0.86**
Naphthalene	mg/kg	0.0026	100	-	-	0.23	-	-	0.23
Nitrobenzene	mg/kg	0.0027		-	-	<0.028U	-	-	<0.028U
Pentachlorophenol	mg/kg	0.067	6.7	-	-	<0.7U	-	-	<0.68U
Phenanthrene	mg/kg	0.0071	100	-	-	0.57	-	-	0.82
Phenol	mg/kg	0.0048	100	-	-	<0.05U	-	-	<0.049U
Pyrene	mg/kg	0.0071	100	-	-	1.2	-	-	1.5
Pyridine	mg/kg	0.0034		-	-	<0.035U	-	-	<0.034U
VOCs									
1,1,1-trichloroethane	mg/kg	0.0019	100	<0.0026U	<0.0022U	-	<0.0026U	<0.0031U	-
1,1-dichloroethane	mg/kg	0.0014	26	<0.0019U	<0.0016U	-	<0.0019U	<0.0022U	-
1,1-dichloroethene	mg/kg	0.0021	100	<0.0029U	<0.0025U	-	<0.0029U	<0.0035U	-
1,2,4-trimethylbenzene	mg/kg	0.001	52	<0.0014U	<0.0012U	-	<0.0014U	<0.0017U	-
1,2-dichlorobenzene	mg/kg	0.003	100	<0.0041U	<0.0035U	-	<0.0041U	<0.0049U	-
1,2-dichloroethane	mg/kg	0.0011	3.1	<0.0015U	<0.0013U	-	<0.0015U	<0.0018U	-
1,3,5-trimethylbenzene	mg/kg	0.0013	52	<0.0018U	<0.0015U	-	<0.0018U	<0.0021U	-
1,3-dichlorobenzene	mg/kg	0.0012	49	<0.0016U	<0.0014U	-	<0.0016U	<0.002U	-
1,4-dichlorobenzene	mg/kg	0.00077	13	<0.001U	<0.0009U	-	<0.0011U	<0.0013U	-
Methyl Ethyl Ketone	mg/kg	0.0022	100	<0.003U	<0.0026U	-	<0.003U	<0.0036U	-
Acetone	mg/kg	0.0024	100	<0.0032U	<0.0028U	-	<0.0032U	<0.0039U	-
Benzene	mg/kg	0.0015	4.8	<0.002U	<0.0017U	-	<0.002U	<0.0024U	-
Carbon tetrachloride	mg/kg	0.0025	2.4	<0.0034U	<0.0029U	-	<0.0034U	<0.0041U	-
Chlorobenzene	mg/kg	0.0012	100	<0.0016U	<0.0014U	-	<0.0016U	<0.0019U	-
Chloroform	mg/kg	0.0016	49	<0.0022U	<0.0019U	-	<0.0022U	<0.0026U	-
cis-1,2-dichloroethene	mg/kg	0.0012	100	<0.0016U	<0.0014U	-	<0.0016U	<0.0019U	-
Dichloromethane	mg/kg	0.0018	100	<0.0024U	<0.0021U	-	<0.0024U	<0.0029U	-
Ethylbenzene	mg/kg	0.0016	41	<0.0022U	<0.0019U	-	<0.0022U	<0.0026U	-
Methyl-tert-butyl ether	mg/kg	0.0028	100	<0.0038U	<0.0032U	-	<0.0038U	<0.0045U	-
n-butylbenzene	mg/kg	0.0029	100	<0.0039U	<0.0033U	-	<0.0039U	<0.0047U	-
n-propylbenzene	mg/kg	0.0016	100	<0.0022U	<0.0019U	-	<0.0022U	<0.0026U	-
sec-butylbenzene	mg/kg	0.0018	100	<0.0025U	<0.0021U	-	<0.0025U	<0.003U	-
Trichloroethene	mg/kg	0.0011	21	<0.0015U	<0.0013U	-	<0.0015U	<0.0018U	-
tert-butylbenzene	mg/kg	0.0014	100	<0.0019U	<0.0016U	-	<0.0019U	<0.0022U	-
Tetrachloroethene	mg/kg	0.0015	19	<0.0021U	<0.0018U	-	<0.0021U	<0.0025U	-
Toluene	mg/kg	0.0013	100	<0.0017U	<0.0015U	-	<0.0017U	<0.0021U	-
trans-1,2-dichloroethene	mg/kg	0.0019	100	<0.0026U	<0.0022U	-	<0.0026U	<0.0031U	-
Vinyl chloride	mg/kg	0.0028	0.9	<0.0038U	<0.0032U	-	<0.0038U	<0.0045U	-
Xylene Total	mg/kg	0.0032	100	<0.0044U	<0.0038U	-	<0.0044U	<0.0053U	-

Notes:

NYSDEC DER-10 App 5 - Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010
Concentrations detected above restricted residentual use for Imported fill or soil are bolded and highlighted in grey
U non detect
J estimated value
J+ estimated value; however value is likely to higher due to higher concentration of the analyte in sample due to positive bias
J- estimated value; however value is likely to lower due to lower concentration of the analyte in sample due to negative bias
UJ non detect; however the reported quantation limit is estimated

TABLE 5
Summary of Analytical Results for Potential Reuse

Former Sperry Remington Site - North Portion
Elmira, New York

				Windrow 4 Section 1			Windrow 4 Section 2		
			Sample ID	W4, S1, A 71317	W4, S1, B 71317	W4, S1, C 71217	W4, S2, A 71317	W4, S2, B 71317	W4, S2, C 71217
			Sampled Date	7/13/2017	7/13/2017	7/12/2017	7/13/2017	7/13/2017	7/12/2017
Chemical Group	**Units**	**EQL**	NYSDEC DER-10 App 5						
PCBs									
Arochlor 1016	mg/kg	0.0092		-	-	<0.0093U	-	-	<0.0097U
Arochlor 1221	mg/kg	0.009		-	-	<0.0091U	-	-	<0.0095U
Arochlor 1232	mg/kg	0.0069		-	-	<0.0069U	-	-	<0.0073U
Arochlor 1242	mg/kg	0.014		-	-	<0.014U	-	-	<0.015U
Arochlor 1248	mg/kg	0.017		-	-	0.55J	-	-	0.6J
Arochlor 1254	mg/kg	0.017		-	-	0.39J	-	-	0.43J
Arochlor 1260	mg/kg	0.012		-	-	0.12J	-	-	0.12J
Arochlor 1268	mg/kg	0.0053		-	-	<0.0053U	-	-	<0.0056U
Arochlor 1262	mg/kg	0.012		-	-	<0.013U	-	-	<0.013U
Total PCBs	mg/kg		1	-	-	**1.089**	-	-	**1.18**
Inorganics									
Arsenic	mg/kg	1	16	-	-	12	-	-	6.6
Barium	mg/kg	20	400	-	-	77	-	-	86
Beryllium	mg/kg	0.41	72	-	-	0.34J	-	-	0.34J
Cadmium	mg/kg	0.12	4.3	-	-	0.19J	-	-	0.18J
Chromium (III+VI)	mg/kg	0.51	110	-	-	9.9	-	-	8.8
Copper	mg/kg	2.5	270	-	-	26	-	-	22
Lead	mg/kg	1	400	-	-	34	-	-	36
Manganese	mg/kg	1.5	2000	-	-	550	-	-	460
Nickel	mg/kg	4.1	310	-	-	19	-	-	17
Selenium	mg/kg	0.4	180	-	-	<0.43U	-	-	1.2
Silver	mg/kg	0.17	180	-	-	<0.18U	-	-	<0.19U
Zinc	mg/kg	2	10000	-	-	82	-	-	64
Mercury	mg/kg	0.028	0.81	-	-	0.16J+	-	-	0.34
Cyanide Total	mg/kg	0.14	27	-	-	<0.15U	-	-	<0.14U
SVOCs									
1,4-Dioxane	mg/kg	0.0053	13	-	-	<0.022U	-	-	<0.022U
2,4,5-trichlorophenol	mg/kg	0.0034		-	-	<0.014U	-	-	<0.014U
2,4,6-trichlorophenol	mg/kg	0.0031		-	-	<0.013U	-	-	<0.013U
2,4-Dinitrotoluene	mg/kg	0.0047		-	-	<0.019U	-	-	<0.019U
2-methylphenol	mg/kg	0.0031	100	-	-	<0.013U	-	-	<0.013U
4-methylphenol	mg/kg	0.0031	100	-	-	<0.013U	-	-	<0.013U
Acenaphthene	mg/kg	0.0024	100	-	-	0.012J	-	-	<0.0099U
Acenaphthylene	mg/kg	0.0024	100	-	-	0.2	-	-	0.084J
Anthracene	mg/kg	0.0026	100	-	-	0.27	-	-	0.089
Benz(a)anthracene	mg/kg	0.0071	1	-	-	0.77	-	-	0.28J
Benzo(a) pyrene	mg/kg	0.0071	1	-	-	0.75	-	-	0.31J
Benzo(b)fluoranthene	mg/kg	0.0071	1	-	-	0.87	-	-	0.4J
Benzo(g,h,i)perylene	mg/kg	0.0071	100	-	-	0.83	-	-	0.41J
Benzo(k)fluoranthene	mg/kg	0.0071	3.9	-	-	0.34	-	-	0.11
Chrysene	mg/kg	0.0071	3.9	-	-	0.7	-	-	0.27J
Dibenz(a,h)anthracene	mg/kg	0.0029	0.33	-	-	0.21	-	-	0.086
Dibenzofuran	mg/kg	0.0028	59	-	-	0.031J	-	-	0.019J
Fluoranthene	mg/kg	0.0071	100	-	-	1.3	-	-	0.43J
Fluorene	mg/kg	0.0025	100	-	-	0.027J	-	-	0.012J
Hexachlorobenzene	mg/kg	0.0028	1.2	-	-	<0.012U	-	-	<0.012U
Hexachlorobutadiene	mg/kg	0.0022		-	-	<0.009U	-	-	<0.0092U
Hexachloroethane	mg/kg	0.0025		-	-	<0.01U	-	-	<0.011U
Indeno(1,2,3-c,d)pyrene	mg/kg	0.0071	0.5	-	-	**0.72**	-	-	0.33J
Naphthalene	mg/kg	0.0026	100	-	-	0.13	-	-	0.082
Nitrobenzene	mg/kg	0.0027		-	-	<0.011U	-	-	<0.011U
Pentachlorophenol	mg/kg	0.067	6.7	-	-	<0.27U	-	-	<0.28U
Phenanthrene	mg/kg	0.0071	100	-	-	0.61	-	-	0.17J
Phenol	mg/kg	0.0048	100	-	-	<0.019U	-	-	<0.02U
Pyrene	mg/kg	0.0071	100	-	-	1	-	-	0.37J
Pyridine	mg/kg	0.0034		-	-	<0.014U	-	-	<0.014U
VOCs									
1,1,1-trichloroethane	mg/kg	0.0019	100	<0.0025U	<0.002U	-	<0.0021U	<0.0023U	-
1,1-dichloroethane	mg/kg	0.0014	26	<0.0018U	<0.0015U	-	<0.0015U	<0.0017U	-
1,1-dichloroethene	mg/kg	0.0021	100	<0.0028U	<0.0023U	-	<0.0023U	<0.0026U	-
1,2,4-trimethylbenzene	mg/kg	0.001	52	<0.0013U	<0.0011U	-	<0.0011U	<0.0012U	-
1,2-dichlorobenzene	mg/kg	0.003	100	<0.004U	<0.0032U	-	<0.0033U	<0.0037U	-
1,2-dichloroethane	mg/kg	0.0011	3.1	<0.0014U	<0.0012U	-	<0.0012U	<0.0013U	-
1,3,5-trimethylbenzene	mg/kg	0.0013	52	<0.0017U	<0.0014U	-	<0.0014U	<0.0016U	-
1,3-dichlorobenzene	mg/kg	0.0012	49	<0.0016U	<0.0013U	-	<0.0013U	<0.0015U	-
1,4-dichlorobenzene	mg/kg	0.00077	13	<0.001U	<0.00082U	-	<0.00083U	<0.00093U	-
Methyl Ethyl Ketone	mg/kg	0.0022	100	<0.0029U	<0.0023U	-	<0.0024U	<0.0026U	-
Acetone	mg/kg	0.0024	100	<0.0031U	<0.0025U	-	<0.0026U	<0.0029U	-
Benzene	mg/kg	0.0015	4.8	<0.0019U	<0.0016U	-	<0.0016U	<0.0018U	-
Carbon tetrachloride	mg/kg	0.0025	2.4	<0.0033U	<0.0027U	-	<0.0027U	<0.003U	-
Chlorobenzene	mg/kg	0.0012	100	<0.0016U	<0.0013U	-	<0.0013U	<0.0014U	-
Chloroform	mg/kg	0.0016	49	<0.0021U	<0.0017U	-	<0.0017U	<0.0019U	-
cis-1,2-dichloroethene	mg/kg	0.0012	100	<0.0016U	<0.0013U	-	<0.0013U	<0.0014U	-
Dichloromethane	mg/kg	0.0018	100	<0.0023U	<0.0019U	-	<0.0019U	<0.0022U	-
Ethylbenzene	mg/kg	0.0016	41	<0.0021U	<0.0017U	-	<0.0018U	<0.002U	-
Methyl-tert-butyl ether	mg/kg	0.0028	100	<0.0036U	<0.003U	-	<0.003U	<0.0034U	-
n-butylbenzene	mg/kg	0.0029	100	<0.0037U	<0.003U	-	<0.0031U	<0.0035U	-
n-propylbenzene	mg/kg	0.0016	100	<0.0021U	<0.0017U	-	<0.0017U	<0.0019U	-
sec-butylbenzene	mg/kg	0.0018	100	<0.0024U	<0.002U	-	<0.002U	<0.0022U	-
Trichloroethene	mg/kg	0.0011	21	<0.0015U	<0.0012U	-	<0.0012U	<0.0014U	-
tert-butylbenzene	mg/kg	0.0014	100	<0.0018U	<0.0015U	-	<0.0015U	<0.0017U	-
Tetrachloroethene	mg/kg	0.0015	19	<0.002U	<0.0016U	-	<0.0016U	<0.0018U	-
Toluene	mg/kg	0.0013	100	<0.0017U	<0.0014U	-	<0.0014U	<0.0015U	-
trans-1,2-dichloroethene	mg/kg	0.0019	100	<0.0025U	<0.002U	-	<0.0021U	<0.0023U	-
Vinyl chloride	mg/kg	0.0028	0.9	<0.0036U	<0.0029U	-	<0.003U	<0.0034U	-
Xylene Total	mg/kg	0.0032	100	<0.0043U	<0.0035U	-	<0.0035U	<0.0039U	-

Notes:

NYSDEC DER-10 App 5 - Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010
Concentrations detected above restricted residentual use for Imported fill or soil are bolded and highlighted in grey
U non detect
J estimated value
J+ estimated value; however value is likely to higher due to higher concentration of the analyte in sample due to positive bias
J- estimated value; however value is likely to lower due to lower concentration of the analyte in sample due to negative bias
UJ non detect; however the reported quantation limit is estimated

TABLE 5
Summary of Analytical Results for Potential Reuse

Former Sperry Remington Site - North Portion
Elmira, New York

				Windrow 4 Section 3			Windrow 4 Section 4		
			Sample ID	W4, S3, A 71317	W4, S3, B 71317	W4, S3, C 71217	W4, S4, A 71317	W4, S4, B 71317	W4, S4, C 71217
			Sampled Date	7/13/2017	7/13/2017	7/12/2017	7/13/2017	7/13/2017	7/12/2017
Chemical Group	**Units**	**EQL**	NYSDEC DER-10 App 5						
PCBs									
Arochlor 1016	mg/kg	0.0092		-	-	<0.0094U	-	-	<0.0098U
Arochlor 1221	mg/kg	0.009		-	-	<0.0092U	-	-	<0.0096U
Arochlor 1232	mg/kg	0.0069		-	-	<0.007U	-	-	<0.0073U
Arochlor 1242	mg/kg	0.014		-	-	<0.014U	-	-	<0.015U
Arochlor 1248	mg/kg	0.017		-	-	0.71J	-	-	0.72J
Arochlor 1254	mg/kg	0.017		-	-	0.5J	-	-	0.51J
Arochlor 1260	mg/kg	0.012		-	-	0.15J	-	-	0.15J
Arochlor 1268	mg/kg	0.0053		-	-	<0.0054U	-	-	<0.0056U
Arochlor 1262	mg/kg	0.012		-	-	<0.013U	-	-	<0.013U
Total PCBs	mg/kg		1	-	-	**1.389**	-	-	**1.41**
Inorganics									
Arsenic	mg/kg	1	16	-	-	7.7	-	-	8
Barium	mg/kg	20	400	-	-	84	-	-	90
Beryllium	mg/kg	0.41	72	-	-	0.35J	-	-	0.4J
Cadmium	mg/kg	0.12	4.3	-	-	0.16J	-	-	0.19J
Chromium (III+VI)	mg/kg	0.51	110	-	-	8.9	-	-	10
Copper	mg/kg	2.5	270	-	-	24	-	-	26
Lead	mg/kg	1	400	-	-	35	-	-	40
Manganese	mg/kg	1.5	2000	-	-	350	-	-	650
Nickel	mg/kg	4.1	310	-	-	18	-	-	19
Selenium	mg/kg	0.4	180	-	-	0.57J	-	-	<0.44U
Silver	mg/kg	0.17	180	-	-	<0.18U	-	-	<0.18U
Zinc	mg/kg	2	10000	-	-	74	-	-	90
Mercury	mg/kg	0.028	0.81	-	-	0.34	-	-	0.24
Cyanide Total	mg/kg	0.14	27	-	-	<0.14U	-	-	<0.15U
SVOCs									
1,4-Dioxane	mg/kg	0.0053	13	-	-	<0.054U	-	-	<0.054U
2,4,5-trichlorophenol	mg/kg	0.0034		-	-	<0.034U	-	-	<0.034U
2,4,6-trichlorophenol	mg/kg	0.0031		-	-	<0.031U	-	-	<0.031U
2,4-Dinitrotoluene	mg/kg	0.0047		-	-	<0.047U	-	-	<0.048U
2-methylphenol	mg/kg	0.0031	100	-	-	<0.031U	-	-	<0.032U
4-methylphenol	mg/kg	0.0031	100	-	-	<0.031U	-	-	<0.032U
Acenaphthene	mg/kg	0.0024	100	-	-	<0.024U	-	-	<0.024U
Acenaphthylene	mg/kg	0.0024	100	-	-	0.28	-	-	0.45
Anthracene	mg/kg	0.0026	100	-	-	0.28	-	-	0.51
Benz(a)anthracene	mg/kg	0.0071	1	-	-	0.73	-	-	**1.1**
Benzo(a) pyrene	mg/kg	0.0071	1	-	-	0.75	-	-	**1.1**
Benzo(b)fluoranthene	mg/kg	0.0071	1	-	-	0.9	-	-	**1.2**
Benzo(g,h,i)perylene	mg/kg	0.0071	100	-	-	0.82	-	-	1.2
Benzo(k)fluoranthene	mg/kg	0.0071	3.9	-	-	0.32	-	-	0.52
Chrysene	mg/kg	0.0071	3.9	-	-	0.67	-	-	1.1
Dibenz(a,h)anthracene	mg/kg	0.0029	0.33	-	-	0.17	-	-	0.22
Dibenzofuran	mg/kg	0.0028	59	-	-	0.052J	-	-	0.074J
Fluoranthene	mg/kg	0.0071	100	-	-	1.5	-	-	2.4
Fluorene	mg/kg	0.0025	100	-	-	0.035J	-	-	0.076
Hexachlorobenzene	mg/kg	0.0028	1.2	-	-	<0.029U	-	-	<0.029U
Hexachlorobutadiene	mg/kg	0.0022		-	-	<0.022U	-	-	<0.023U
Hexachloroethane	mg/kg	0.0025		-	-	<0.025U	-	-	<0.026U
Indeno(1,2,3-c,d)pyrene	mg/kg	0.0071	0.5	-	-	**0.68**	-	-	**1**
Naphthalene	mg/kg	0.0026	100	-	-	0.14	-	-	0.19
Nitrobenzene	mg/kg	0.0027		-	-	<0.027U	-	-	<0.027U
Pentachlorophenol	mg/kg	0.067	6.7	-	-	<0.67U	-	-	<0.68U
Phenanthrene	mg/kg	0.0071	100	-	-	0.63	-	-	1.1
Phenol	mg/kg	0.0048	100	-	-	<0.048U	-	-	<0.048U
Pyrene	mg/kg	0.0071	100	-	-	0.99	-	-	1.5
Pyridine	mg/kg	0.0034		-	-	<0.034U	-	-	<0.034U
VOCs									
1,1,1-trichloroethane	mg/kg	0.0019	100	<0.0023U	<0.0025U	-	<0.0022U	<0.0024U	-
1,1-dichloroethane	mg/kg	0.0014	26	<0.0017U	<0.0018U	-	<0.0016U	<0.0017U	-
1,1-dichloroethene	mg/kg	0.0021	100	<0.0026U	<0.0028U	-	<0.0025U	<0.0027U	-
1,2,4-trimethylbenzene	mg/kg	0.001	52	<0.0012U	<0.0013U	-	<0.0012U	<0.0013U	-
1,2-dichlorobenzene	mg/kg	0.003	100	<0.0037U	<0.004U	-	<0.0036U	<0.0038U	-
1,2-dichloroethane	mg/kg	0.0011	3.1	<0.0013U	<0.0014U	-	<0.0013U	<0.0014U	-
1,3,5-trimethylbenzene	mg/kg	0.0013	52	<0.0016U	<0.0017U	-	<0.0015U	<0.0016U	-
1,3-dichlorobenzene	mg/kg	0.0012	49	<0.0015U	<0.0016U	-	<0.0014U	<0.0015U	-
1,4-dichlorobenzene	mg/kg	0.00077	13	<0.00094U	<0.001U	-	<0.0009U	<0.00096U	-
Methyl Ethyl Ketone	mg/kg	0.0022	100	<0.0027U	<0.0029U	-	<0.0026U	<0.0027U	-
Acetone	mg/kg	0.0024	100	<0.0029U	<0.0031U	-	<0.0028U	<0.003U	-
Benzene	mg/kg	0.0015	4.8	<0.0018U	<0.0019U	-	<0.0017U	<0.0018U	-
Carbon tetrachloride	mg/kg	0.0025	2.4	<0.0031U	<0.0033U	-	<0.0029U	<0.0031U	-
Chlorobenzene	mg/kg	0.0012	100	<0.0015U	<0.0016U	-	<0.0014U	<0.0015U	-
Chloroform	mg/kg	0.0016	49	<0.002U	<0.0021U	-	<0.0019U	<0.002U	-
cis-1,2-dichloroethene	mg/kg	0.0012	100	<0.0015U	<0.0016U	-	<0.0014U	<0.0015U	-
Dichloromethane	mg/kg	0.0018	100	<0.0022U	<0.0023U	-	<0.0021U	<0.0022U	-
Ethylbenzene	mg/kg	0.0016	41	<0.002U	<0.0021U	-	<0.0019U	<0.002U	-
Methyl-tert-butyl ether	mg/kg	0.0028	100	<0.0034U	<0.0036U	-	<0.0033U	<0.0035U	-
n-butylbenzene	mg/kg	0.0029	100	<0.0035U	<0.0037U	-	<0.0033U	<0.0036U	-
n-propylbenzene	mg/kg	0.0016	100	<0.002U	<0.0021U	-	<0.0019U	<0.002U	-
sec-butylbenzene	mg/kg	0.0018	100	<0.0023U	<0.0024U	-	<0.0022U	<0.0023U	-
Trichloroethene	mg/kg	0.0011	21	<0.0014U	<0.0015U	-	<0.0013U	<0.0014U	-
tert-butylbenzene	mg/kg	0.0014	100	<0.0017U	<0.0018U	-	<0.0016U	<0.0017U	-
Tetrachloroethene	mg/kg	0.0015	19	<0.0019U	<0.002U	-	<0.0018U	<0.0019U	-
Toluene	mg/kg	0.0013	100	<0.0016U	<0.0017U	-	<0.0015U	<0.0016U	-
trans-1,2-dichloroethene	mg/kg	0.0019	100	<0.0023U	<0.0025U	-	<0.0022U	<0.0024U	-
Vinyl chloride	mg/kg	0.0028	0.9	<0.0034U	<0.0036U	-	<0.0032U	<0.0034U	-
Xylene Total	mg/kg	0.0032	100	<0.004U	<0.0042U	-	<0.0038U	<0.004U	-

Notes:

NYSDEC DER-10 App 5 - Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010
Concentrations detected above restricted residentual use for Imported fill or soil are bolded and highlighted in grey
U non detect
J estimated value
J+ estimated value; however value is likely to higher due to higher concentration of the analyte in sample due to positive bias
J- estimated value; however value is likely to lower due to lower concentration of the analyte in sample due to negative bias
UJ non detect; however the reported quantation limit is estimated

TABLE 5
Summary of Analytical Results for Potential Reuse

Former Sperry Remington Site - North Portion
Elmira, New York

				Windrow 4 Section 5			Windrow 5 Section 1		
			Sample ID	W4, S5, A 71317	W4, S5, B 71317	W4, S5, C 71217	W5, S1, A 71217	W5, S1, B 71217	W5, S1, C 71217
			Sampled Date	7/13/2017	7/13/2017	7/12/2017	7/12/2017	7/12/2017	7/12/2017
Chemical Group	**Units**	**EQL**	NYSDEC DER-10 App 5						
PCBs									
Arochlor 1016	mg/kg	0.0092		-	-	<0.0096U	-	-	<0.0094U
Arochlor 1221	mg/kg	0.009		-	-	<0.0093U	-	-	<0.0092U
Arochlor 1232	mg/kg	0.0069		-	-	<0.0071U	-	-	<0.007U
Arochlor 1242	mg/kg	0.014		-	-	<0.014U	-	-	<0.014U
Arochlor 1248	mg/kg	0.017		-	-	0.61J	-	-	0.56J
Arochlor 1254	mg/kg	0.017		-	-	0.41J	-	-	0.36J
Arochlor 1260	mg/kg	0.012		-	-	0.12J	-	-	0.11J
Arochlor 1268	mg/kg	0.0053		-	-	<0.0055U	-	-	<0.0054U
Arochlor 1262	mg/kg	0.012		-	-	<0.013U	-	-	<0.013U
Total PCBs	mg/kg		1	-	-	**1.169**	-	-	**1.059**
Inorganics									
Arsenic	mg/kg	1	16	-	-	7	-	-	6.7
Barium	mg/kg	20	400	-	-	73	-	-	62
Beryllium	mg/kg	0.41	72	-	-	0.36J	-	-	0.32J
Cadmium	mg/kg	0.12	4.3	-	-	0.16J	-	-	0.14J
Chromium (III+VI)	mg/kg	0.51	110	-	-	9.5	-	-	8.7
Copper	mg/kg	2.5	270	-	-	26	-	-	27
Lead	mg/kg	1	400	-	-	33	-	-	29
Manganese	mg/kg	1.5	2000	-	-	370	-	-	350
Nickel	mg/kg	4.1	310	-	-	17	-	-	16
Selenium	mg/kg	0.4	180	-	-	0.53J	-	-	<0.43U
Silver	mg/kg	0.17	180	-	-	<0.18U	-	-	<0.18U
Zinc	mg/kg	2	10000	-	-	68	-	-	65
Mercury	mg/kg	0.028	0.81	-	-	0.18	-	-	0.072
Cyanide Total	mg/kg	0.14	27	-	-	<0.15U	-	-	<0.15U
SVOCs									
1,4-Dioxane	mg/kg	0.0053	13	-	-	<0.022U	-	-	<0.021U
2,4,5-trichlorophenol	mg/kg	0.0034		-	-	<0.014U	-	-	<0.014U
2,4,6-trichlorophenol	mg/kg	0.0031		-	-	<0.013U	-	-	<0.012U
2,4-Dinitrotoluene	mg/kg	0.0047		-	-	<0.019U	-	-	<0.019U
2-methylphenol	mg/kg	0.0031	100	-	-	<0.013U	-	-	<0.013U
4-methylphenol	mg/kg	0.0031	100	-	-	<0.013U	-	-	<0.013U
Acenaphthene	mg/kg	0.0024	100	-	-	0.02J	-	-	0.011J
Acenaphthylene	mg/kg	0.0024	100	-	-	0.48	-	-	0.21
Anthracene	mg/kg	0.0026	100	-	-	0.42	-	-	0.31
Benz(a)anthracene	mg/kg	0.0071	1	-	-	**1.2**	-	-	0.86
Benzo(a) pyrene	mg/kg	0.0071	1	-	-	**1.2**	-	-	0.96
Benzo(b)fluoranthene	mg/kg	0.0071	1	-	-	**1.4**	-	-	**1.1**
Benzo(g,h,i)perylene	mg/kg	0.0071	100	-	-	1.4	-	-	0.98
Benzo(k)fluoranthene	mg/kg	0.0071	3.9	-	-	0.56	-	-	0.4
Chrysene	mg/kg	0.0071	3.9	-	-	1.1	-	-	0.81
Dibenz(a,h)anthracene	mg/kg	0.0029	0.33	-	-	0.3	-	-	0.23
Dibenzofuran	mg/kg	0.0028	59	-	-	0.066J	-	-	0.044J
Fluoranthene	mg/kg	0.0071	100	-	-	2.7	-	-	1.5
Fluorene	mg/kg	0.0025	100	-	-	0.06	-	-	0.036
Hexachlorobenzene	mg/kg	0.0028	1.2	-	-	<0.012U	-	-	<0.011U
Hexachlorobutadiene	mg/kg	0.0022		-	-	<0.0093U	-	-	<0.009U
Hexachloroethane	mg/kg	0.0025		-	-	<0.011U	-	-	<0.01U
Indeno(1,2,3-c,d)pyrene	mg/kg	0.0071	0.5	-	-	**1.1**	-	-	**0.86**
Naphthalene	mg/kg	0.0026	100	-	-	0.22	-	-	0.2
Nitrobenzene	mg/kg	0.0027		-	-	<0.011U	-	-	<0.011U
Pentachlorophenol	mg/kg	0.067	6.7	-	-	<0.28U	-	-	<0.27U
Phenanthrene	mg/kg	0.0071	100	-	-	0.95	-	-	0.52
Phenol	mg/kg	0.0048	100	-	-	<0.02U	-	-	<0.019U
Pyrene	mg/kg	0.0071	100	-	-	1.8	-	-	1.1
Pyridine	mg/kg	0.0034		-	-	<0.014U	-	-	<0.014U
VOCs									
1,1,1-trichloroethane	mg/kg	0.0019	100	<0.0022U	<0.0024U	-	<0.0023U	<0.0024U	-
1,1-dichloroethane	mg/kg	0.0014	26	<0.0016U	<0.0017U	-	<0.0017U	<0.0017U	-
1,1-dichloroethene	mg/kg	0.0021	100	<0.0025U	<0.0027U	-	<0.0026U	<0.0027U	-
1,2,4-trimethylbenzene	mg/kg	0.001	52	<0.0012U	<0.0013U	-	<0.0012UJ	<0.0013U	-
1,2-dichlorobenzene	mg/kg	0.003	100	<0.0036U	<0.0038U	-	<0.0037UJ	<0.0038U	-
1,2-dichloroethane	mg/kg	0.0011	3.1	<0.0013U	<0.0014U	-	<0.0013U	<0.0014U	-
1,3,5-trimethylbenzene	mg/kg	0.0013	52	<0.0015U	<0.0016U	-	<0.0016UJ	<0.0016U	-
1,3-dichlorobenzene	mg/kg	0.0012	49	<0.0014U	<0.0015U	-	<0.0015UJ	<0.0015U	-
1,4-dichlorobenzene	mg/kg	0.00077	13	<0.00091U	<0.00096U	-	<0.00093UJ	<0.00097U	-
Methyl Ethyl Ketone	mg/kg	0.0022	100	<0.0026U	<0.0027U	-	<0.0027U	<0.0028U	-
Acetone	mg/kg	0.0024	100	<0.0028U	<0.003U	-	<0.0029U	<0.003U	-
Benzene	mg/kg	0.0015	4.8	<0.0018U	<0.0018U	-	<0.0018U	<0.0019U	-
Carbon tetrachloride	mg/kg	0.0025	2.4	<0.003U	<0.0031U	-	<0.003U	<0.0032U	-
Chlorobenzene	mg/kg	0.0012	100	<0.0014U	<0.0015U	-	<0.0014U	<0.0015U	-
Chloroform	mg/kg	0.0016	49	<0.0019U	<0.002U	-	<0.0019U	<0.002U	-
cis-1,2-dichloroethene	mg/kg	0.0012	100	<0.0014U	<0.0015U	-	<0.0014U	<0.0015U	-
Dichloromethane	mg/kg	0.0018	100	<0.0021U	<0.0022U	-	<0.0022U	<0.0022U	-
Ethylbenzene	mg/kg	0.0016	41	<0.0019U	<0.002U	-	<0.002U	<0.0021U	-
Methyl-tert-butyl ether	mg/kg	0.0028	100	<0.0033U	<0.0035U	-	<0.0034U	<0.0035U	-
n-butylbenzene	mg/kg	0.0029	100	<0.0034U	<0.0036U	-	<0.0035UJ	<0.0036U	-
n-propylbenzene	mg/kg	0.0016	100	<0.0019U	<0.002U	-	<0.0019UJ	<0.002U	-
sec-butylbenzene	mg/kg	0.0018	100	<0.0022U	<0.0023U	-	<0.0022UJ	<0.0023U	-
Trichloroethene	mg/kg	0.0011	21	<0.0013U	<0.0014U	-	<0.0014U	<0.0014U	-
tert-butylbenzene	mg/kg	0.0014	100	<0.0016U	<0.0017U	-	<0.0017UJ	<0.0017U	-
Tetrachloroethene	mg/kg	0.0015	19	<0.0018U	<0.0019U	-	<0.0018U	<0.0019U	-
Toluene	mg/kg	0.0013	100	<0.0015U	<0.0016U	-	<0.0015U	<0.0016U	-
trans-1,2-dichloroethene	mg/kg	0.0019	100	<0.0023U	<0.0024U	-	<0.0023U	<0.0024U	-
Vinyl chloride	mg/kg	0.0028	0.9	<0.0033U	<0.0035U	-	<0.0034U	<0.0035U	-
Xylene Total	mg/kg	0.0032	100	<0.0038U	<0.0041U	-	<0.0039U	<0.0041U	-

Notes:

NYSDEC DER-10 App 5 - Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010
Concentrations detected above restricted residentual use for Imported fill or soil are bolded and highlighted in grey
U non detect
J estimated value
J+ estimated value; however value is likely to higher due to higher concentration of the analyte in sample due to positive bias
J- estimated value; however value is likely to lower due to lower concentration of the analyte in sample due to negative bias
UJ non detect; however the reported quantation limit is estimated

TABLE 5
Summary of Analytical Results for Potential Reuse

Former Sperry Remington Site - North Portion
Elmira, New York

				Windrow 5 Section 2			Windrow 5 Section 3		
			Sample ID	W5, S2, A 71217	W5, S2, B 71217	W5, S2, C 71217	W5, S3, A 71217	W5, S3, B 71217	W5, S3, C 71217
			Sampled Date	7/12/2017	7/12/2017	7/12/2017	7/12/2017	7/12/2017	7/12/2017
Chemical Group	**Units**	**EQL**	NYSDEC DER-10 App 5						
PCBs									
Arochlor 1016	mg/kg	0.0092		-	-	<0.0096U	-	-	<0.0095U
Arochlor 1221	mg/kg	0.009		-	-	<0.0094U	-	-	<0.0092U
Arochlor 1232	mg/kg	0.0069		-	-	<0.0072U	-	-	<0.0071U
Arochlor 1242	mg/kg	0.014		-	-	<0.014U	-	-	<0.014U
Arochlor 1248	mg/kg	0.017		-	-	0.48J	-	-	0.71J
Arochlor 1254	mg/kg	0.017		-	-	0.3J	-	-	0.47J
Arochlor 1260	mg/kg	0.012		-	-	0.089J	-	-	0.14J
Arochlor 1268	mg/kg	0.0053		-	-	<0.0055U	-	-	<0.0054U
Arochlor 1262	mg/kg	0.012		-	-	<0.013U	-	-	<0.013U
Total PCBs	mg/kg		1	-	-	0.8984	-	-	**1.349**
Inorganics									
Arsenic	mg/kg	1	16	-	-	4.9	-	-	6.3
Barium	mg/kg	20	400	-	-	48	-	-	86
Beryllium	mg/kg	0.41	72	-	-	0.29J	-	-	0.33J
Cadmium	mg/kg	0.12	4.3	-	-	0.14J	-	-	0.3J
Chromium (III+VI)	mg/kg	0.51	110	-	-	7.7	-	-	8.7
Copper	mg/kg	2.5	270	-	-	39	-	-	22
Lead	mg/kg	1	400	-	-	64	-	-	28
Manganese	mg/kg	1.5	2000	-	-	300	-	-	360
Nickel	mg/kg	4.1	310	-	-	14	-	-	16
Selenium	mg/kg	0.4	180	-	-	<0.45U	-	-	0.55J
Silver	mg/kg	0.17	180	-	-	<0.19U	-	-	<0.2U
Zinc	mg/kg	2	10000	-	-	72	-	-	63
Mercury	mg/kg	0.028	0.81	-	-	0.11	-	-	0.24
Cyanide Total	mg/kg	0.14	27	-	-	<0.15U	-	-	<0.16U
SVOCs									
1,4-Dioxane	mg/kg	0.0053	13	-	-	<0.053U	-	-	<0.011U
2,4,5-trichlorophenol	mg/kg	0.0034		-	-	<0.034U	-	-	<0.0069U
2,4,6-trichlorophenol	mg/kg	0.0031		-	-	<0.031U	-	-	<0.0063U
2,4-Dinitrotoluene	mg/kg	0.0047		-	-	<0.047U	-	-	<0.0096U
2-methylphenol	mg/kg	0.0031	100	-	-	<0.031U	-	-	<0.0064U
4-methylphenol	mg/kg	0.0031	100	-	-	<0.031U	-	-	0.0072J
Acenaphthene	mg/kg	0.0024	100	-	-	<0.024U	-	-	0.013J
Acenaphthylene	mg/kg	0.0024	100	-	-	0.19	-	-	0.16
Anthracene	mg/kg	0.0026	100	-	-	0.28	-	-	0.25
Benz(a)anthracene	mg/kg	0.0071	1	-	-	**1**	-	-	0.83
Benzo(a) pyrene	mg/kg	0.0071	1	-	-	**1**	-	-	0.87
Benzo(b)fluoranthene	mg/kg	0.0071	1	-	-	**1.1**	-	-	0.98
Benzo(g,h,i)perylene	mg/kg	0.0071	100	-	-	1	-	-	0.86
Benzo(k)fluoranthene	mg/kg	0.0071	3.9	-	-	0.4	-	-	0.38
Chrysene	mg/kg	0.0071	3.9	-	-	0.87	-	-	0.74
Dibenz(a,h)anthracene	mg/kg	0.0029	0.33	-	-	0.25	-	-	0.21
Dibenzofuran	mg/kg	0.0028	59	-	-	0.052J	-	-	0.044J
Fluoranthene	mg/kg	0.0071	100	-	-	1.6	-	-	1.4
Fluorene	mg/kg	0.0025	100	-	-	0.036J	-	-	0.034
Hexachlorobenzene	mg/kg	0.0028	1.2	-	-	<0.029U	-	-	<0.0058U
Hexachlorobutadiene	mg/kg	0.0022		-	-	<0.022U	-	-	<0.0046U
Hexachloroethane	mg/kg	0.0025		-	-	<0.025U	-	-	<0.0052U
Indeno(1,2,3-c,d)pyrene	mg/kg	0.0071	0.5	-	-	**0.95**	-	-	**0.78**
Naphthalene	mg/kg	0.0026	100	-	-	0.17	-	-	0.17
Nitrobenzene	mg/kg	0.0027		-	-	<0.027U	-	-	<0.0055U
Pentachlorophenol	mg/kg	0.067	6.7	-	-	<0.67U	-	-	<0.14U
Phenanthrene	mg/kg	0.0071	100	-	-	0.58	-	-	0.61
Phenol	mg/kg	0.0048	100	-	-	<0.048U	-	-	<0.0098U
Pyrene	mg/kg	0.0071	100	-	-	1.2	-	-	1.1
Pyridine	mg/kg	0.0034		-	-	<0.034U	-	-	<0.0069U
VOCs									
1,1,1-trichloroethane	mg/kg	0.0019	100	<0.0026U	<0.0026U	-	<0.0027U	<0.0026U	-
1,1-dichloroethane	mg/kg	0.0014	26	<0.0019U	<0.0019U	-	<0.002U	<0.0019U	-
1,1-dichloroethene	mg/kg	0.0021	100	<0.003U	<0.003U	-	<0.0031U	<0.003U	-
1,2,4-trimethylbenzene	mg/kg	0.001	52	<0.0014U	<0.0014U	-	<0.0015U	<0.0014U	-
1,2-dichlorobenzene	mg/kg	0.003	100	<0.0042U	<0.0042U	-	<0.0044U	<0.0042U	-
1,2-dichloroethane	mg/kg	0.0011	3.1	<0.0015U	<0.0015U	-	<0.0016U	<0.0015U	-
1,3,5-trimethylbenzene	mg/kg	0.0013	52	<0.0018U	<0.0018U	-	<0.0019U	<0.0018U	-
1,3-dichlorobenzene	mg/kg	0.0012	49	<0.0017U	<0.0017U	-	<0.0017U	<0.0017U	-
1,4-dichlorobenzene	mg/kg	0.00077	13	<0.0011U	<0.0011U	-	<0.0011U	<0.0011U	-
Methyl Ethyl Ketone	mg/kg	0.0022	100	<0.003U	<0.003U	-	<0.0032U	<0.003U	-
Acetone	mg/kg	0.0024	100	<0.0033U	<0.0033U	-	<0.0034U	<0.0033U	-
Benzene	mg/kg	0.0015	4.8	<0.002U	<0.002U	-	<0.0021U	<0.002U	-
Carbon tetrachloride	mg/kg	0.0025	2.4	<0.0035U	<0.0034U	-	<0.0036U	<0.0034U	-
Chlorobenzene	mg/kg	0.0012	100	<0.0016U	<0.0016U	-	<0.0017U	<0.0016U	-
Chloroform	mg/kg	0.0016	49	<0.0022U	<0.0022U	-	<0.0023U	<0.0022U	-
cis-1,2-dichloroethene	mg/kg	0.0012	100	<0.0016U	<0.0016U	-	<0.0017U	<0.0016U	-
Dichloromethane	mg/kg	0.0018	100	<0.0025U	<0.0025U	-	<0.0026U	<0.0024U	-
Ethylbenzene	mg/kg	0.0016	41	<0.0022U	<0.0022U	-	<0.0023U	<0.0022U	-
Methyl-tert-butyl ether	mg/kg	0.0028	100	<0.0038U	<0.0038U	-	<0.004U	<0.0038U	-
n-butylbenzene	mg/kg	0.0029	100	<0.0039U	<0.0039U	-	<0.0041U	<0.0039U	-
n-propylbenzene	mg/kg	0.0016	100	<0.0022U	<0.0022U	-	<0.0023U	<0.0022U	-
sec-butylbenzene	mg/kg	0.0018	100	<0.0025U	<0.0025U	-	<0.0027U	<0.0025U	-
Trichloroethene	mg/kg	0.0011	21	<0.0016U	<0.0016U	-	<0.0016U	<0.0016U	-
tert-butylbenzene	mg/kg	0.0014	100	<0.0019U	<0.0019U	-	<0.002U	<0.0019U	-
Tetrachloroethene	mg/kg	0.0015	19	<0.0021U	<0.0021U	-	<0.0022U	<0.0021U	-
Toluene	mg/kg	0.0013	100	<0.0018U	<0.0018U	-	<0.0018U	<0.0017U	-
trans-1,2-dichloroethene	mg/kg	0.0019	100	<0.0026U	<0.0026U	-	<0.0028U	<0.0026U	-
Vinyl chloride	mg/kg	0.0028	0.9	<0.0038U	<0.0038U	-	<0.004U	<0.0038U	-
Xylene Total	mg/kg	0.0032	100	<0.0045U	<0.0045U	-	<0.0047U	<0.0045U	-

Notes:

NYSDEC DER-10 App 5 - Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010
Concentrations detected above restricted residentual use for Imported fill or soil are bolded and highlighted in grey
U non detect
J estimated value
J+ estimated value; however value is likely to higher due to higher concentration of the analyte in sample due to positive bias
J- estimated value; however value is likely to lower due to lower concentration of the analyte in sample due to negative bias
UJ non detect; however the reported quantation limit is estimated

TABLE 5
Summary of Analytical Results for Potential Reuse

Former Sperry Remington Site - North Portion
Elmira, New York

				Windrow 5 Section 4			Windrow 5 Section 5		
			Sample ID	W5, S4, A 71217	W5, S4, B 71217	W5, S4, C 71217	W5, S5, A 71217	W5, S5, B 71217	W5, S5, C 71217
			Sampled Date	7/12/2017	7/12/2017	7/12/2017	7/12/2017	7/12/2017	7/12/2017
Chemical Group	**Units**	**EQL**	NYSDEC DER-10 App 5						
PCBs									
Arochlor 1016	mg/kg	0.0092		-	-	<0.0095U	-	-	<0.0096U
Arochlor 1221	mg/kg	0.009		-	-	<0.0093U	-	-	<0.0094U
Arochlor 1232	mg/kg	0.0069		-	-	<0.0071U	-	-	<0.0072U
Arochlor 1242	mg/kg	0.014		-	-	<0.014U	-	-	<0.014U
Arochlor 1248	mg/kg	0.017		-	-	0.91J	-	-	0.68J
Arochlor 1254	mg/kg	0.017		-	-	0.64J	-	-	0.46J
Arochlor 1260	mg/kg	0.012		-	-	0.19J	-	-	0.14J
Arochlor 1268	mg/kg	0.0053		-	-	<0.0055U	-	-	<0.0055U
Arochlor 1262	mg/kg	0.012		-	-	<0.013U	-	-	<0.013U
Total PCBs	mg/kg		1	-	-	**1.769**	-	-	**1.309**
Inorganics									
Arsenic	mg/kg	1	16	-	-	11	-	-	10
Barium	mg/kg	20	400	-	-	85	-	-	100
Beryllium	mg/kg	0.41	72	-	-	0.42J	-	-	0.57
Cadmium	mg/kg	0.12	4.3	-	-	0.62	-	-	0.22J
Chromium (III+VI)	mg/kg	0.51	110	-	-	11	-	-	14
Copper	mg/kg	2.5	270	-	-	25	-	-	28
Lead	mg/kg	1	400	-	-	33	-	-	40
Manganese	mg/kg	1.5	2000	-	-	510	-	-	570
Nickel	mg/kg	4.1	310	-	-	23	-	-	27
Selenium	mg/kg	0.4	180	-	-	0.57J	-	-	<0.47U
Silver	mg/kg	0.17	180	-	-	<0.19U	-	-	<0.19U
Zinc	mg/kg	2	10000	-	-	76	-	-	89
Mercury	mg/kg	0.028	0.81	-	-	0.27	-	-	0.2
Cyanide Total	mg/kg	0.14	27	-	-	<0.15U	-	-	<0.15U
SVOCs									
1,4-Dioxane	mg/kg	0.0053	13	-	-	<0.028U	-	-	<0.016U
2,4,5-trichlorophenol	mg/kg	0.0034		-	-	<0.017U	-	-	<0.01U
2,4,6-trichlorophenol	mg/kg	0.0031		-	-	<0.016U	-	-	<0.0095U
2,4-Dinitrotoluene	mg/kg	0.0047		-	-	<0.024U	-	-	<0.014U
2-methylphenol	mg/kg	0.0031	100	-	-	<0.016U	-	-	<0.0096U
4-methylphenol	mg/kg	0.0031	100	-	-	<0.016U	-	-	<0.0096U
Acenaphthene	mg/kg	0.0024	100	-	-	<0.012U	-	-	<0.0073U
Acenaphthylene	mg/kg	0.0024	100	-	-	0.12	-	-	0.067
Anthracene	mg/kg	0.0026	100	-	-	0.18	-	-	0.084
Benz(a)anthracene	mg/kg	0.0071	1	-	-	0.49	-	-	0.27
Benzo(a) pyrene	mg/kg	0.0071	1	-	-	0.49	-	-	0.27
Benzo(b)fluoranthene	mg/kg	0.0071	1	-	-	0.57	-	-	0.32
Benzo(g,h,i)perylene	mg/kg	0.0071	100	-	-	0.52	-	-	0.28
Benzo(k)fluoranthene	mg/kg	0.0071	3.9	-	-	0.22	-	-	0.12
Chrysene	mg/kg	0.0071	3.9	-	-	0.43	-	-	0.27
Dibenz(a,h)anthracene	mg/kg	0.0029	0.33	-	-	0.13	-	-	0.067
Dibenzofuran	mg/kg	0.0028	59	-	-	0.031J	-	-	0.039J
Fluoranthene	mg/kg	0.0071	100	-	-	0.83	-	-	0.41
Fluorene	mg/kg	0.0025	100	-	-	0.024J	-	-	0.0087J
Hexachlorobenzene	mg/kg	0.0028	1.2	-	-	<0.015U	-	-	<0.0087U
Hexachlorobutadiene	mg/kg	0.0022		-	-	<0.012U	-	-	<0.0068U
Hexachloroethane	mg/kg	0.0025		-	-	<0.013U	-	-	<0.0078U
Indeno(1,2,3-c,d)pyrene	mg/kg	0.0071	0.5	-	-	0.44	-	-	0.24
Naphthalene	mg/kg	0.0026	100	-	-	0.095	-	-	0.39
Nitrobenzene	mg/kg	0.0027		-	-	<0.014U	-	-	<0.0083U
Pentachlorophenol	mg/kg	0.067	6.7	-	-	<0.35U	-	-	<0.2U
Phenanthrene	mg/kg	0.0071	100	-	-	0.38	-	-	0.18
Phenol	mg/kg	0.0048	100	-	-	<0.025U	-	-	<0.015U
Pyrene	mg/kg	0.0071	100	-	-	0.63	-	-	0.35
Pyridine	mg/kg	0.0034		-	-	<0.018U	-	-	<0.01U
VOCs									
1,1,1-trichloroethane	mg/kg	0.0019	100	<0.0025U	<0.003U	-	<0.0023U	<0.0025U	-
1,1-dichloroethane	mg/kg	0.0014	26	<0.0018U	<0.0022U	-	<0.0017U	<0.0018U	-
1,1-dichloroethene	mg/kg	0.0021	100	<0.0029U	<0.0034U	-	<0.0026U	<0.0028U	-
1,2,4-trimethylbenzene	mg/kg	0.001	52	<0.0014U	<0.0016U	-	<0.0012U	<0.0013U	-
1,2-dichlorobenzene	mg/kg	0.003	100	<0.0041U	<0.0048U	-	<0.0037U	<0.004U	-
1,2-dichloroethane	mg/kg	0.0011	3.1	<0.0015U	<0.0017U	-	<0.0013U	<0.0014U	-
1,3,5-trimethylbenzene	mg/kg	0.0013	52	<0.0017U	<0.0021U	-	<0.0016U	<0.0017U	-
1,3-dichlorobenzene	mg/kg	0.0012	49	<0.0016U	<0.0019U	-	<0.0015U	<0.0016U	-
1,4-dichlorobenzene	mg/kg	0.00077	13	<0.001U	<0.0012U	-	<0.00094U	<0.001U	-
Methyl Ethyl Ketone	mg/kg	0.0022	100	<0.0029U	<0.0035U	-	<0.0027U	<0.0028U	-
Acetone	mg/kg	0.0024	100	<0.0032U	<0.0038U	-	<0.0029U	<0.0031U	-
Benzene	mg/kg	0.0015	4.8	<0.002U	<0.0024U	-	<0.0018U	<0.0019U	-
Carbon tetrachloride	mg/kg	0.0025	2.4	<0.0034U	<0.004U	-	<0.0031U	<0.0033U	-
Chlorobenzene	mg/kg	0.0012	100	<0.0016U	<0.0019U	-	<0.0015U	<0.0015U	-
Chloroform	mg/kg	0.0016	49	<0.0021U	<0.0025U	-	<0.002U	<0.0021U	-
cis-1,2-dichloroethene	mg/kg	0.0012	100	<0.0016U	<0.0019U	-	<0.0015U	<0.0015U	-
Dichloromethane	mg/kg	0.0018	100	<0.0024U	<0.0028U	-	<0.0022U	<0.0023U	-
Ethylbenzene	mg/kg	0.0016	41	<0.0022U	<0.0026U	-	<0.002U	<0.0021U	-
Methyl-tert-butyl ether	mg/kg	0.0028	100	<0.0037U	<0.0044U	-	<0.0034U	<0.0036U	-
n-butylbenzene	mg/kg	0.0029	100	<0.0038U	<0.0046U	-	<0.0035U	<0.0037U	-
n-propylbenzene	mg/kg	0.0016	100	<0.0021U	<0.0025U	-	<0.002U	<0.0021U	-
sec-butylbenzene	mg/kg	0.0018	100	<0.0025U	<0.0029U	-	<0.0023U	<0.0024U	-
Trichloroethene	mg/kg	0.0011	21	<0.0015U	<0.0018U	-	<0.0014U	<0.0015U	-
tert-butylbenzene	mg/kg	0.0014	100	<0.0019U	<0.0022U	-	<0.0017U	<0.0018U	-
Tetrachloroethene	mg/kg	0.0015	19	<0.002U	<0.0024U	-	<0.0019U	<0.002U	-
Toluene	mg/kg	0.0013	100	<0.0017U	<0.002U	-	<0.0016U	<0.0017U	-
trans-1,2-dichloroethene	mg/kg	0.0019	100	<0.0026U	<0.003U	-	<0.0023U	<0.0025U	-
Vinyl chloride	mg/kg	0.0028	0.9	<0.0037U	<0.0044U	-	<0.0034U	<0.0036U	-
Xylene Total	mg/kg	0.0032	100	<0.0044U	<0.0052U	-	<0.004U	<0.0042U	-

Notes:

NYSDEC DER-10 App 5 - Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010
Concentrations detected above restricted residentual use for Imported fill or soil are bolded and highlighted in grey
U non detect
J estimated value
J+ estimated value; however value is likely to higher due to higher concentration of the analyte in sample due to positive bias
J- estimated value; however value is likely to lower due to lower concentration of the analyte in sample due to negative bias
UJ non detect; however the reported quantation limit is estimated

TABLE 5
Summary of Analytical Results for Potential Reuse

Former Sperry Remington Site - North Portion
Elmira, New York

				Windrow 5-b Section 5			Windrow 6 Section 1		
			Sample ID	W5-b, S5, A 08.04	W5-b, S5, B 08.04	W5-b, S5, C 08.04	W6, S1, A 071317	W6, S1, B 071317	W6, S1, C 071317
			Sampled Date	8/4/2017	8/4/2017	8/4/2017	7/13/2017	7/13/2017	7/13/2017
Chemical Group	**Units**	**EQL**	NYSDEC DER-10 App 5						
PCBs									
Arochlor 1016	mg/kg	0.0092		-	-	<0.049U	-	-	<0.0092U
Arochlor 1221	mg/kg	0.009		-	-	<0.048U	-	-	<0.009U
Arochlor 1232	mg/kg	0.0069		-	-	<0.037U	-	-	<0.0069U
Arochlor 1242	mg/kg	0.014		-	-	<0.073U	-	-	<0.014U
Arochlor 1248	mg/kg	0.017		-	-	6.5J	-	-	0.8J
Arochlor 1254	mg/kg	0.017		-	-	2.2J	-	-	0.47J
Arochlor 1260	mg/kg	0.012		-	-	0.34J	-	-	0.15J
Arochlor 1268	mg/kg	0.0053		-	-	<0.028U	-	-	<0.0053U
Arochlor 1262	mg/kg	0.012		-	-	<0.066U	-	-	<0.012U
Total PCBs	mg/kg		1	-	-	**9.191**	-	-	**1.448**
Inorganics									
Arsenic	mg/kg	1	16	-	-	6.5	-	-	6.6
Barium	mg/kg	20	400	-	-	93	-	-	85
Beryllium	mg/kg	0.41	72	-	-	0.3J	-	-	0.36J
Cadmium	mg/kg	0.12	4.3	-	-	0.17J	-	-	0.16J
Chromium (III+VI)	mg/kg	0.51	110	-	-	11	-	-	9.1
Copper	mg/kg	2.5	270	-	-	41	-	-	20
Lead	mg/kg	1	400	-	-	91	-	-	31
Manganese	mg/kg	1.5	2000	-	-	460	-	-	370
Nickel	mg/kg	4.1	310	-	-	42	-	-	17
Selenium	mg/kg	0.4	180	-	-	<0.44U	-	-	<0.42U
Silver	mg/kg	0.17	180	-	-	<0.19U	-	-	<0.17U
Zinc	mg/kg	2	10000	-	-	73	-	-	69
Mercury	mg/kg	0.028	0.81	-	-	0.058	-	-	0.12J
Cyanide Total	mg/kg	0.14	27	-	-	2	-	-	<0.14U
SVOCs									
1,4-Dioxane	mg/kg	0.0053	13	-	-	<0.0056U	-	-	<0.016U
2,4,5-trichlorophenol	mg/kg	0.0034		-	-	<0.0035U	-	-	<0.01U
2,4,6-trichlorophenol	mg/kg	0.0031		-	-	<0.0032U	-	-	<0.0093U
2,4-Dinitrotoluene	mg/kg	0.0047		-	-	<0.0049U	-	-	<0.014U
2-methylphenol	mg/kg	0.0031	100	-	-	<0.0033U	-	-	<0.0094U
4-methylphenol	mg/kg	0.0031	100	-	-	<0.0033U	-	-	<0.0094U
Acenaphthene	mg/kg	0.0024	100	-	-	0.0046J	-	-	0.01J
Acenaphthylene	mg/kg	0.0024	100	-	-	0.012	-	-	0.15
Anthracene	mg/kg	0.0026	100	-	-	0.019	-	-	0.17J
Benz(a)anthracene	mg/kg	0.0071	1	-	-	0.08	-	-	0.48J
Benzo(a) pyrene	mg/kg	0.0071	1	-	-	0.074	-	-	0.46J
Benzo(b)fluoranthene	mg/kg	0.0071	1	-	-	0.1	-	-	0.55J
Benzo(g,h,i)perylene	mg/kg	0.0071	100	-	-	0.074	-	-	0.49J
Benzo(k)fluoranthene	mg/kg	0.0071	3.9	-	-	0.028	-	-	0.24
Chrysene	mg/kg	0.0071	3.9	-	-	0.09	-	-	0.46J
Dibenz(a,h)anthracene	mg/kg	0.0029	0.33	-	-	0.019	-	-	0.12
Dibenzofuran	mg/kg	0.0028	59	-	-	0.0062J	-	-	0.029J
Fluoranthene	mg/kg	0.0071	100	-	-	0.16	-	-	0.94J
Fluorene	mg/kg	0.0025	100	-	-	<0.0026U	-	-	0.027
Hexachlorobenzene	mg/kg	0.0028	1.2	-	-	<0.003U	-	-	<0.0085U
Hexachlorobutadiene	mg/kg	0.0022		-	-	<0.0023U	-	-	<0.0067U
Hexachloroethane	mg/kg	0.0025		-	-	<0.0027U	-	-	<0.0076U
Indeno(1,2,3-c,d)pyrene	mg/kg	0.0071	0.5	-	-	0.064	-	-	0.41
Naphthalene	mg/kg	0.0026	100	-	-	0.014	-	-	0.12
Nitrobenzene	mg/kg	0.0027		-	-	<0.0028U	-	-	<0.0081U
Pentachlorophenol	mg/kg	0.067	6.7	-	-	<0.07U	-	-	<0.2UJ
Phenanthrene	mg/kg	0.0071	100	-	-	0.071	-	-	0.37J
Phenol	mg/kg	0.0048	100	-	-	<0.005U	-	-	<0.014U
Pyrene	mg/kg	0.0071	100	-	-	0.12	-	-	0.69J
Pyridine	mg/kg	0.0034		-	-	<0.0035U	-	-	<0.01U,F1,F2
VOCs									
1,1,1-trichloroethane	mg/kg	0.0019	100	<0.0021U	<0.0025U	-	<0.0023U	<0.0024U	-
1,1-dichloroethane	mg/kg	0.0014	26	<0.0015U	<0.0018U	-	<0.0017U	<0.0017U	-
1,1-dichloroethene	mg/kg	0.0021	100	<0.0024U	<0.0028U	-	<0.0026U	<0.0027U	-
1,2,4-trimethylbenzene	mg/kg	0.001	52	<0.0011U	<0.0013U	-	<0.0012U	<0.0013U	-
1,2-dichlorobenzene	mg/kg	0.003	100	<0.0033U	<0.004U	-	<0.0037U	<0.0038U	-
1,2-dichloroethane	mg/kg	0.0011	3.1	<0.0012U	<0.0014U	-	<0.0013U	<0.0014U	-
1,3,5-trimethylbenzene	mg/kg	0.0013	52	<0.0014U	<0.0017U	-	<0.0016U	<0.0016U	-
1,3-dichlorobenzene	mg/kg	0.0012	49	<0.0013U	<0.0016U	-	<0.0015U	<0.0015U	-
1,4-dichlorobenzene	mg/kg	0.00077	13	<0.00085U	<0.001U	-	<0.00094U	<0.00097U	-
Methyl Ethyl Ketone	mg/kg	0.0022	100	<0.0024U	<0.0029U	-	<0.0027U	<0.0028U	-
Acetone	mg/kg	0.0024	100	<0.0026U	<0.0031U	-	<0.0029U	<0.003U	-
Benzene	mg/kg	0.0015	4.8	<0.0016U	<0.002U	-	<0.0018U	<0.0019U	-
Carbon tetrachloride	mg/kg	0.0025	2.4	<0.0027U	<0.0033U	-	<0.003U	<0.0032U	-
Chlorobenzene	mg/kg	0.0012	100	<0.0013U	<0.0016U	-	<0.0014U	<0.0015U	-
Chloroform	mg/kg	0.0016	49	<0.0018U	<0.0021U	-	<0.0019U	<0.002U	-
cis-1,2-dichloroethene	mg/kg	0.0012	100	<0.0013U	<0.0016U	-	<0.0014U	<0.0015U	-
Dichloromethane	mg/kg	0.0018	100	<0.002U	<0.0023U	-	<0.0022U	<0.0023U	-
Ethylbenzene	mg/kg	0.0016	41	<0.0018U	<0.0021U	-	<0.002U	<0.0021U	-
Methyl-tert-butyl ether	mg/kg	0.0028	100	<0.0031U	<0.0037U	-	<0.0034U	<0.0035U	-
n-butylbenzene	mg/kg	0.0029	100	<0.0031U	<0.0038U	-	<0.0035U	<0.0036U	-
n-propylbenzene	mg/kg	0.0016	100	<0.0017U	<0.0021U	-	<0.0019U	<0.002U	-
sec-butylbenzene	mg/kg	0.0018	100	<0.002U	<0.0024U	-	<0.0022U	<0.0023U	-
Trichloroethene	mg/kg	0.0011	21	<0.0012U	<0.0015U	-	<0.0014U	<0.0014U	-
tert-butylbenzene	mg/kg	0.0014	100	<0.0015U	<0.0018U	-	<0.0017U	<0.0017U	-
Tetrachloroethene	mg/kg	0.0015	19	<0.0017U	<0.002U	-	<0.0018U	<0.0019U	-
Toluene	mg/kg	0.0013	100	<0.0014U	<0.0017U	-	<0.0015U	<0.0016U	-
trans-1,2-dichloroethene	mg/kg	0.0019	100	<0.0021U	<0.0025U	-	<0.0023U	<0.0024U	-
Vinyl chloride	mg/kg	0.0028	0.9	<0.003U	<0.0036U	-	<0.0034U	<0.0035U	-
Xylene Total	mg/kg	0.0032	100	<0.0036U	<0.0043U	-	<0.0039U	<0.0041U	-

Notes:

NYSDEC DER-10 App 5 - Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010
Concentrations detected above restricted residentual use for Imported fill or soil are bolded and highlighted in grey
U non detect
J estimated value
J+ estimated value; however value is likely to higher due to higher concentration of the analyte in sample due to positive bias
J- estimated value; however value is likely to lower due to lower concentration of the analyte in sample due to negative bias
UJ non detect; however the reported quantation limit is estimated

TABLE 5
Summary of Analytical Results for Potential Reuse

Former Sperry Remington Site - North Portion
Elmira, New York

				Windrow 6 Section 2			Windrow 6 Section 3		
			Sample ID	W6, S2, A 071317	W6, S2, B 071317	W6, S2, C 071317	W6, S3, A 071317	W6, S3, B 071317	W6, S3, C 071317
			Sampled Date	7/13/2017	7/13/2017	7/13/2017	7/13/2017	7/13/2017	7/13/2017
Chemical Group	**Units**	**EQL**	NYSDEC DER-10 App 5						
PCBs									
Arochlor 1016	mg/kg	0.0092		-	-	<0.01U	-	-	<0.0098U
Arochlor 1221	mg/kg	0.009		-	-	<0.0098U	-	-	<0.0096U
Arochlor 1232	mg/kg	0.0069		-	-	<0.0075U	-	-	<0.0073U
Arochlor 1242	mg/kg	0.014		-	-	<0.015U	-	-	<0.015U
Arochlor 1248	mg/kg	0.017		-	-	1.8J	-	-	1.2J
Arochlor 1254	mg/kg	0.017		-	-	0.76J	-	-	0.55J
Arochlor 1260	mg/kg	0.012		-	-	0.33J	-	-	0.23J
Arochlor 1268	mg/kg	0.0053		-	-	<0.0058U	-	-	<0.0056U
Arochlor 1262	mg/kg	0.012		-	-	<0.014U	-	-	<0.013U
Total PCBs	mg/kg		1	-	-	**2.921**	-	-	**2.01**
Inorganics									
Arsenic	mg/kg	1	16	-	-	6.7	-	-	12J
Barium	mg/kg	20	400	-	-	74	-	-	99J
Beryllium	mg/kg	0.41	72	-	-	0.38J	-	-	0.47
Cadmium	mg/kg	0.12	4.3	-	-	0.14J	-	-	0.17J
Chromium (III+VI)	mg/kg	0.51	110	-	-	9.9	-	-	12J
Copper	mg/kg	2.5	270	-	-	21	-	-	24
Lead	mg/kg	1	400	-	-	32	-	-	36
Manganese	mg/kg	1.5	2000	-	-	530	-	-	510J
Nickel	mg/kg	4.1	310	-	-	19	-	-	22J
Selenium	mg/kg	0.4	180	-	-	<0.43U	-	-	<0.44U
Silver	mg/kg	0.17	180	-	-	<0.18U	-	-	<0.18U
Zinc	mg/kg	2	10000	-	-	81	-	-	76J
Mercury	mg/kg	0.028	0.81	-	-	0.22	-	-	0.11
Cyanide Total	mg/kg	0.14	27	-	-	<0.17U	-	-	<0.16U
SVOCs									
1,4-Dioxane	mg/kg	0.0053	13	-	-	<0.017U	-	-	<0.056U
2,4,5-trichlorophenol	mg/kg	0.0034		-	-	<0.011U	-	-	<0.036U
2,4,6-trichlorophenol	mg/kg	0.0031		-	-	<0.0098U	-	-	<0.033U
2,4-Dinitrotoluene	mg/kg	0.0047		-	-	<0.015U	-	-	<0.049U
2-methylphenol	mg/kg	0.0031	100	-	-	<0.0099U	-	-	<0.033U
4-methylphenol	mg/kg	0.0031	100	-	-	<0.0099U	-	-	<0.033U
Acenaphthene	mg/kg	0.0024	100	-	-	<0.0075U	-	-	<0.025U
Acenaphthylene	mg/kg	0.0024	100	-	-	0.051	-	-	0.13
Anthracene	mg/kg	0.0026	100	-	-	0.078	-	-	0.075
Benz(a)anthracene	mg/kg	0.0071	1	-	-	0.26	-	-	0.32J
Benzo(a) pyrene	mg/kg	0.0071	1	-	-	0.24	-	-	0.33J
Benzo(b)fluoranthene	mg/kg	0.0071	1	-	-	0.28	-	-	0.38J
Benzo(g,h,i)perylene	mg/kg	0.0071	100	-	-	0.23	-	-	0.24
Benzo(k)fluoranthene	mg/kg	0.0071	3.9	-	-	0.12	-	-	0.15
Chrysene	mg/kg	0.0071	3.9	-	-	0.24	-	-	0.31J
Dibenz(a,h)anthracene	mg/kg	0.0029	0.33	-	-	0.052	-	-	0.067J
Dibenzofuran	mg/kg	0.0028	59	-	-	0.014J	-	-	<0.03U
Fluoranthene	mg/kg	0.0071	100	-	-	0.41	-	-	0.38
Fluorene	mg/kg	0.0025	100	-	-	0.012J	-	-	0.029J
Hexachlorobenzene	mg/kg	0.0028	1.2	-	-	<0.009U	-	-	<0.03U
Hexachlorobutadiene	mg/kg	0.0022		-	-	<0.0071U	-	-	<0.024U
Hexachloroethane	mg/kg	0.0025		-	-	<0.008U	-	-	<0.027U
Indeno(1,2,3-c,d)pyrene	mg/kg	0.0071	0.5	-	-	0.2	-	-	0.2
Naphthalene	mg/kg	0.0026	100	-	-	0.049	-	-	0.058J
Nitrobenzene	mg/kg	0.0027		-	-	<0.0085U	-	-	<0.029U
Pentachlorophenol	mg/kg	0.067	6.7	-	-	<0.21U	-	-	<0.71U
Phenanthrene	mg/kg	0.0071	100	-	-	0.26	-	-	0.16
Phenol	mg/kg	0.0048	100	-	-	<0.015U	-	-	<0.05U
Pyrene	mg/kg	0.0071	100	-	-	0.42	-	-	0.4
Pyridine	mg/kg	0.0034		-	-	<0.011U	-	-	<0.036U
VOCs									
1,1,1-trichloroethane	mg/kg	0.0019	100	<0.0026U	<0.0023U	-	<0.0024U	<0.0022U	-
1,1-dichloroethane	mg/kg	0.0014	26	<0.0019U	<0.0017U	-	<0.0017U	<0.0016U	-
1,1-dichloroethene	mg/kg	0.0021	100	<0.003U	<0.0026U	-	<0.0028U	<0.0025U	-
1,2,4-trimethylbenzene	mg/kg	0.001	52	<0.0014U	<0.0012U	-	<0.0013U	<0.0012U	-
1,2-dichlorobenzene	mg/kg	0.003	100	<0.0042U	<0.0037U	-	<0.0039U	<0.0035U	-
1,2-dichloroethane	mg/kg	0.0011	3.1	<0.0015U	<0.0013U	-	<0.0014U	<0.0013U	-
1,3,5-trimethylbenzene	mg/kg	0.0013	52	<0.0018U	<0.0016U	-	<0.0017U	<0.0015U	-
1,3-dichlorobenzene	mg/kg	0.0012	49	<0.0017U	<0.0015U	-	<0.0015U	<0.0014U	-
1,4-dichlorobenzene	mg/kg	0.00077	13	<0.0011U	<0.00093U	-	<0.00098U	<0.00088U	-
Methyl Ethyl Ketone	mg/kg	0.0022	100	<0.003U	<0.0026U	-	<0.0028U	<0.0025U	-
Acetone	mg/kg	0.0024	100	<0.0033U	<0.0029U	-	<0.003U	<0.0027U	-
Benzene	mg/kg	0.0015	4.8	<0.002U	<0.0018U	-	<0.0019U	<0.0017U	-
Carbon tetrachloride	mg/kg	0.0025	2.4	<0.0034U	<0.003U	-	<0.0032U	<0.0029U	-
Chlorobenzene	mg/kg	0.0012	100	<0.0016U	<0.0014U	-	<0.0015U	<0.0014U	-
Chloroform	mg/kg	0.0016	49	<0.0022U	<0.0019U	-	<0.002U	<0.0018U	-
cis-1,2-dichloroethene	mg/kg	0.0012	100	<0.0016U	<0.0014U	-	<0.0015U	<0.0014U	-
Dichloromethane	mg/kg	0.0018	100	<0.0025U	<0.0022U	-	0.0024J	<0.002U	-
Ethylbenzene	mg/kg	0.0016	41	<0.0022U	<0.002U	-	<0.0021U	<0.0019U	-
Methyl-tert-butyl ether	mg/kg	0.0028	100	<0.0038U	<0.0034U	-	<0.0036U	<0.0032U	-
n-butylbenzene	mg/kg	0.0029	100	<0.0039U	<0.0035U	-	<0.0037U	<0.0033U	-
n-propylbenzene	mg/kg	0.0016	100	<0.0022U	<0.0019U	-	<0.002U	<0.0018U	-
sec-butylbenzene	mg/kg	0.0018	100	<0.0025U	<0.0022U	-	<0.0024U	<0.0021U	-
Trichloroethene	mg/kg	0.0011	21	<0.0016U	<0.0014U	-	<0.0015U	<0.0013U	-
tert-butylbenzene	mg/kg	0.0014	100	<0.0019U	<0.0017U	-	<0.0018U	<0.0016U	-
Tetrachloroethene	mg/kg	0.0015	19	<0.0021U	<0.0018U	-	<0.0019U	<0.0017U	-
Toluene	mg/kg	0.0013	100	<0.0018U	<0.0015U	-	<0.0016U	<0.0015U	-
trans-1,2-dichloroethene	mg/kg	0.0019	100	<0.0026U	<0.0023U	-	<0.0024U	<0.0022U	-
Vinyl chloride	mg/kg	0.0028	0.9	<0.0038U	<0.0034U	-	<0.0035U	<0.0032U	-
Xylene Total	mg/kg	0.0032	100	<0.0045U	<0.0039U	-	<0.0042U	<0.0037U	-

Notes:

NYSDEC DER-10 App 5 - Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010
Concentrations detected above restricted residentual use for Imported fill or soil are bolded and highlighted in grey
U non detect
J estimated value
J+ estimated value; however value is likely to higher due to higher concentration of the analyte in sample due to positive bias
J- estimated value; however value is likely to lower due to lower concentration of the analyte in sample due to negative bias
UJ non detect; however the reported quantation limit is estimated

TABLE 5
Summary of Analytical Results for Potential Reuse

Former Sperry Remington Site - North Portion
Elmira, New York

				Windrow 6 Section 4			Windrow 6 Section 5		
			Sample ID	W6, S4, A 071317	W6, S4, B 071317	W6, S4, C 071317	W6, S5, A 071317	W6, S5, B 071317	W6, S5, C 071317
			Sampled Date	7/13/2017	7/13/2017	7/13/2017	7/13/2017	7/13/2017	7/13/2017
Chemical Group	**Units**	**EQL**	NYSDEC DER-10 App 5						
PCBs									
Arochlor 1016	mg/kg	0.0092		-	-	<0.0096U	-	-	<0.0096U
Arochlor 1221	mg/kg	0.009		-	-	<0.0094U	-	-	<0.0094U
Arochlor 1232	mg/kg	0.0069		-	-	<0.0072U	-	-	<0.0072U
Arochlor 1242	mg/kg	0.014		-	-	<0.014U	-	-	<0.014U
Arochlor 1248	mg/kg	0.017		-	-	1.5J	-	-	1.1J
Arochlor 1254	mg/kg	0.017		-	-	0.6J	-	-	0.35J
Arochlor 1260	mg/kg	0.012		-	-	0.22J	-	-	0.13J
Arochlor 1268	mg/kg	0.0053		-	-	<0.0055U	-	-	<0.0055U
Arochlor 1262	mg/kg	0.012		-	-	<0.013U	-	-	<0.013U
Total PCBs	mg/kg		1	-	-	**2.349**	-	-	**1.609**
Inorganics									
Arsenic	mg/kg	1	16	-	-	7.6	-	-	5.8
Barium	mg/kg	20	400	-	-	80	-	-	250
Beryllium	mg/kg	0.41	72	-	-	0.41J	-	-	0.23J
Cadmium	mg/kg	0.12	4.3	-	-	0.16J	-	-	<0.12U
Chromium (III+VI)	mg/kg	0.51	110	-	-	9.5	-	-	6
Copper	mg/kg	2.5	270	-	-	23	-	-	17
Lead	mg/kg	1	400	-	-	35	-	-	18
Manganese	mg/kg	1.5	2000	-	-	410	-	-	390
Nickel	mg/kg	4.1	310	-	-	18	-	-	13
Selenium	mg/kg	0.4	180	-	-	0.83J	-	-	1.3
Silver	mg/kg	0.17	180	-	-	<0.19U	-	-	<0.18U
Zinc	mg/kg	2	10000	-	-	62	-	-	42
Mercury	mg/kg	0.028	0.81	-	-	0.22	-	-	0.083
Cyanide Total	mg/kg	0.14	27	-	-	<0.16U	-	-	<0.15U
SVOCs									
1,4-Dioxane	mg/kg	0.0053	13	-	-	<0.022U	-	-	<0.021U
2,4,5-trichlorophenol	mg/kg	0.0034		-	-	<0.014U	-	-	<0.013U
2,4,6-trichlorophenol	mg/kg	0.0031		-	-	<0.013U	-	-	<0.012U
2,4-Dinitrotoluene	mg/kg	0.0047		-	-	<0.019U	-	-	<0.019U
2-methylphenol	mg/kg	0.0031	100	-	-	<0.013U	-	-	<0.012U
4-methylphenol	mg/kg	0.0031	100	-	-	<0.013U	-	-	<0.013U
Acenaphthene	mg/kg	0.0024	100	-	-	<0.0098U	-	-	<0.0095U
Acenaphthylene	mg/kg	0.0024	100	-	-	0.055	-	-	0.032
Anthracene	mg/kg	0.0026	100	-	-	0.052	-	-	0.066
Benz(a)anthracene	mg/kg	0.0071	1	-	-	0.16	-	-	0.19
Benzo(a) pyrene	mg/kg	0.0071	1	-	-	0.15	-	-	0.17
Benzo(b)fluoranthene	mg/kg	0.0071	1	-	-	0.19	-	-	0.25
Benzo(g,h,i)perylene	mg/kg	0.0071	100	-	-	0.16	-	-	0.19
Benzo(k)fluoranthene	mg/kg	0.0071	3.9	-	-	0.073	-	-	0.05
Chrysene	mg/kg	0.0071	3.9	-	-	0.16	-	-	0.18
Dibenz(a,h)anthracene	mg/kg	0.0029	0.33	-	-	0.04	-	-	0.045
Dibenzofuran	mg/kg	0.0028	59	-	-	0.02J	-	-	0.014J
Fluoranthene	mg/kg	0.0071	100	-	-	0.22	-	-	0.33
Fluorene	mg/kg	0.0025	100	-	-	0.011J	-	-	0.012J
Hexachlorobenzene	mg/kg	0.0028	1.2	-	-	<0.012U	-	-	<0.011U
Hexachlorobutadiene	mg/kg	0.0022		-	-	<0.0092U	-	-	<0.0089U
Hexachloroethane	mg/kg	0.0025		-	-	<0.01U	-	-	<0.01U
Indeno(1,2,3-c,d)pyrene	mg/kg	0.0071	0.5	-	-	0.13	-	-	0.15
Naphthalene	mg/kg	0.0026	100	-	-	0.053	-	-	0.039
Nitrobenzene	mg/kg	0.0027		-	-	<0.011U	-	-	<0.011U
Pentachlorophenol	mg/kg	0.067	6.7	-	-	<0.28U	-	-	<0.27U
Phenanthrene	mg/kg	0.0071	100	-	-	0.14	-	-	0.17
Phenol	mg/kg	0.0048	100	-	-	<0.02U	-	-	<0.019U
Pyrene	mg/kg	0.0071	100	-	-	0.24	-	-	0.3
Pyridine	mg/kg	0.0034		-	-	<0.014U,F1	-	-	<0.014U
VOCs									
1,1,1-trichloroethane	mg/kg	0.0019	100	<0.0023U	<0.0022U	-	<0.0025U	<0.0022U	-
1,1-dichloroethane	mg/kg	0.0014	26	<0.0016U	<0.0016U	-	<0.0018U	<0.0016U	-
1,1-dichloroethene	mg/kg	0.0021	100	<0.0026U	<0.0025U	-	<0.0028U	<0.0025U	-
1,2,4-trimethylbenzene	mg/kg	0.001	52	<0.0012U	<0.0012U	-	<0.0013U	<0.0012U	-
1,2-dichlorobenzene	mg/kg	0.003	100	<0.0036U	<0.0035U	-	<0.0039U	<0.0035U	-
1,2-dichloroethane	mg/kg	0.0011	3.1	<0.0013U	<0.0013U	-	<0.0014U	<0.0013U	-
1,3,5-trimethylbenzene	mg/kg	0.0013	52	<0.0016U	<0.0015U	-	<0.0017U	<0.0015U	-
1,3-dichlorobenzene	mg/kg	0.0012	49	<0.0014U	<0.0014U	-	<0.0016U	<0.0014U	-
1,4-dichlorobenzene	mg/kg	0.00077	13	<0.00092U	<0.00088U	-	<0.001U	<0.00089U	-
Methyl Ethyl Ketone	mg/kg	0.0022	100	<0.0026U	<0.0025U	-	<0.0028U	<0.0025U	-
Acetone	mg/kg	0.0024	100	<0.0029U	<0.0027U	-	<0.0031U	<0.0028U	-
Benzene	mg/kg	0.0015	4.8	<0.0018U	<0.0017U	-	<0.0019U	<0.0017U	-
Carbon tetrachloride	mg/kg	0.0025	2.4	<0.003U	<0.0029U	-	<0.0032U	<0.0029U	-
Chlorobenzene	mg/kg	0.0012	100	<0.0014U	<0.0014U	-	<0.0015U	<0.0014U	-
Chloroform	mg/kg	0.0016	49	<0.0019U	<0.0018U	-	<0.0021U	<0.0018U	-
cis-1,2-dichloroethene	mg/kg	0.0012	100	<0.0014U	<0.0014U	-	<0.0015U	<0.0014U	-
Dichloromethane	mg/kg	0.0018	100	<0.0021U	<0.002U	-	<0.0023U	<0.0021U	-
Ethylbenzene	mg/kg	0.0016	41	<0.002U	<0.0019U	-	<0.0021U	<0.0019U	-
Methyl-tert-butyl ether	mg/kg	0.0028	100	<0.0033U	<0.0032U	-	<0.0036U	<0.0032U	-
n-butylbenzene	mg/kg	0.0029	100	<0.0034U	<0.0033U	-	<0.0037U	<0.0033U	-
n-propylbenzene	mg/kg	0.0016	100	<0.0019U	<0.0018U	-	<0.0021U	<0.0018U	-
sec-butylbenzene	mg/kg	0.0018	100	<0.0022U	<0.0021U	-	<0.0024U	<0.0021U	-
Trichloroethene	mg/kg	0.0011	21	<0.0014U	<0.0013U	-	<0.0015U	<0.0013U	-
tert-butylbenzene	mg/kg	0.0014	100	<0.0017U	<0.0016U	-	<0.0018U	<0.0016U	-
Tetrachloroethene	mg/kg	0.0015	19	<0.0018U	<0.0017U	-	<0.002U	<0.0017U	-
Toluene	mg/kg	0.0013	100	<0.0015U	<0.0015U	-	<0.0016U	<0.0015U	-
trans-1,2-dichloroethene	mg/kg	0.0019	100	<0.0023U	<0.0022U	-	<0.0025U	<0.0022U	-
Vinyl chloride	mg/kg	0.0028	0.9	<0.0033U	<0.0032U	-	<0.0036U	<0.0032U	-
Xylene Total	mg/kg	0.0032	100	<0.0039U	<0.0037U	-	<0.0042U	<0.0038U	-

Notes:

NYSDEC DER-10 App 5 - Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010
Concentrations detected above restricted residentual use for Imported fill or soil are bolded and highlighted in grey
U non detect
J estimated value
J+ estimated value; however value is likely to higher due to higher concentration of the analyte in sample due to positive bias
J- estimated value; however value is likely to lower due to lower concentration of the analyte in sample due to negative bias
UJ non detect; however the reported quantation limit is estimated

TABLE 5
Summary of Analytical Results for Potential Reuse

Former Sperry Remington Site - North Portion
Elmira, New York

				Windrow 7 Section 1			Windrow 7 Section 2		
			Sample ID	W7, S1, A 71317	W7, S1, B 71317	W7, S1, C 71317	W7, S2, A 71317	W7, S2, B 71317	W7, S2, C 71317
			Sampled Date	7/13/2017	7/13/2017	7/13/2017	7/13/2017	7/13/2017	7/13/2017
Chemical Group	**Units**	**EQL**	NYSDEC DER-10 App 5						
PCBs									
Arochlor 1016	mg/kg	0.0092		-	-	<0.0097U	-	-	<0.0097U
Arochlor 1221	mg/kg	0.009		-	-	<0.0094U	-	-	<0.0094U
Arochlor 1232	mg/kg	0.0069		-	-	<0.0072U	-	-	<0.0072U
Arochlor 1242	mg/kg	0.014		-	-	<0.014U	-	-	<0.014U
Arochlor 1248	mg/kg	0.017		-	-	1.1J	-	-	1.5J
Arochlor 1254	mg/kg	0.017		-	-	0.42J	-	-	0.53J
Arochlor 1260	mg/kg	0.012		-	-	0.17J	-	-	0.19J
Arochlor 1268	mg/kg	0.0053		-	-	<0.0056U	-	-	<0.0056U
Arochlor 1262	mg/kg	0.012		-	-	<0.013U	-	-	<0.013U
Total PCBs	mg/kg		1	-	-	**1.719**	-	-	**2.249**
Inorganics									
Arsenic	mg/kg	1	16	-	-	6.9	-	-	9
Barium	mg/kg	20	400	-	-	61	-	-	78
Beryllium	mg/kg	0.41	72	-	-	0.32J	-	-	0.4J
Cadmium	mg/kg	0.12	4.3	-	-	0.17J	-	-	0.18J
Chromium (III+VI)	mg/kg	0.51	110	-	-	9.1	-	-	11
Copper	mg/kg	2.5	270	-	-	25	-	-	29
Lead	mg/kg	1	400	-	-	33	-	-	38
Manganese	mg/kg	1.5	2000	-	-	390	-	-	440
Nickel	mg/kg	4.1	310	-	-	18	-	-	21
Selenium	mg/kg	0.4	180	-	-	0.56J	-	-	<0.42U
Silver	mg/kg	0.17	180	-	-	<0.19U	-	-	<0.17U
Zinc	mg/kg	2	10000	-	-	74	-	-	83
Mercury	mg/kg	0.028	0.81	-	-	0.057	-	-	0.042
Cyanide Total	mg/kg	0.14	27	-	-	0.42J	-	-	0.23J
SVOCs									
1,4-Dioxane	mg/kg	0.0053	13	-	-	<0.055U	-	-	<0.56U
2,4,5-trichlorophenol	mg/kg	0.0034		-	-	<0.034U	-	-	<0.35U
2,4,6-trichlorophenol	mg/kg	0.0031		-	-	<0.032U	-	-	<0.33U
2,4-Dinitrotoluene	mg/kg	0.0047		-	-	<0.048U	-	-	<0.49U
2-methylphenol	mg/kg	0.0031	100	-	-	<0.032U	-	-	<0.33U
4-methylphenol	mg/kg	0.0031	100	-	-	<0.032U	-	-	<0.33U
Acenaphthene	mg/kg	0.0024	100	-	-	0.029J	-	-	<0.25U
Acenaphthylene	mg/kg	0.0024	100	-	-	0.28	-	-	1.2
Anthracene	mg/kg	0.0026	100	-	-	0.69	-	-	6
Benz(a)anthracene	mg/kg	0.0071	1	-	-	**1.9**	-	-	**12**
Benzo(a) pyrene	mg/kg	0.0071	1	-	-	**2**	-	-	**9.8**
Benzo(b)fluoranthene	mg/kg	0.0071	1	-	-	**2.4**	-	-	**12**
Benzo(g,h,i)perylene	mg/kg	0.0071	100	-	-	2	-	-	7.3
Benzo(k)fluoranthene	mg/kg	0.0071	3.9	-	-	0.7	-	-	3.4
Chrysene	mg/kg	0.0071	3.9	-	-	1.7	-	-	**9.3**
Dibenz(a,h)anthracene	mg/kg	0.0029	0.33	-	-	**0.41**	-	-	**2**
Dibenzofuran	mg/kg	0.0028	59	-	-	0.1J	-	-	0.57J
Fluoranthene	mg/kg	0.0071	100	-	-	3.5	-	-	24
Fluorene	mg/kg	0.0025	100	-	-	0.078	-	-	0.92
Hexachlorobenzene	mg/kg	0.0028	1.2	-	-	<0.029U	-	-	<0.3U
Hexachlorobutadiene	mg/kg	0.0022		-	-	<0.023U	-	-	<0.23U
Hexachloroethane	mg/kg	0.0025		-	-	<0.026U	-	-	<0.27U
Indeno(1,2,3-c,d)pyrene	mg/kg	0.0071	0.5	-	-	**1.7**	-	-	**7**
Naphthalene	mg/kg	0.0026	100	-	-	0.32	-	-	0.57J
Nitrobenzene	mg/kg	0.0027		-	-	<0.028U	-	-	<0.28U
Pentachlorophenol	mg/kg	0.067	6.7	-	-	<0.69U	-	-	<7U
Phenanthrene	mg/kg	0.0071	100	-	-	2	-	-	19
Phenol	mg/kg	0.0048	100	-	-	<0.049U	-	-	<0.5U
Pyrene	mg/kg	0.0071	100	-	-	3.3	-	-	21
Pyridine	mg/kg	0.0034		-	-	<0.035U	-	-	<0.36U
VOCs									
1,1,1-trichloroethane	mg/kg	0.0019	100	<0.0019U	<0.0019U	-	<0.0021U	<0.0026U	-
1,1-dichloroethane	mg/kg	0.0014	26	<0.0014U	<0.0014U	-	<0.0015U	<0.0019U	-
1,1-dichloroethene	mg/kg	0.0021	100	<0.0022U	<0.0021U	-	<0.0024U	<0.003U	-
1,2,4-trimethylbenzene	mg/kg	0.001	52	<0.001U	<0.001U	-	<0.0011U	<0.0014U	-
1,2-dichlorobenzene	mg/kg	0.003	100	<0.0031U	<0.003U	-	<0.0033U	<0.0042U	-
1,2-dichloroethane	mg/kg	0.0011	3.1	<0.0011U	<0.0011U	-	<0.0012U	<0.0015U	-
1,3,5-trimethylbenzene	mg/kg	0.0013	52	<0.0013U	<0.0013U	-	<0.0014U	<0.0018U	-
1,3-dichlorobenzene	mg/kg	0.0012	49	<0.0012U	<0.0012U	-	<0.0013U	<0.0017U	-
1,4-dichlorobenzene	mg/kg	0.00077	13	<0.00077U	<0.00077U	-	<0.00085U	<0.0011U	-
Methyl Ethyl Ketone	mg/kg	0.0022	100	<0.0022U	<0.0022U	-	<0.0024U	<0.003U	-
Acetone	mg/kg	0.0024	100	<0.0024U	<0.0024U	-	<0.0026U	<0.0033U	-
Benzene	mg/kg	0.0015	4.8	<0.0015U	<0.0015U	-	<0.0016U	<0.0021U	-
Carbon tetrachloride	mg/kg	0.0025	2.4	<0.0025U	<0.0025U	-	<0.0028U	<0.0035U	-
Chlorobenzene	mg/kg	0.0012	100	<0.0012U	<0.0012U	-	<0.0013U	<0.0016U	-
Chloroform	mg/kg	0.0016	49	<0.0016U	<0.0016U	-	<0.0018U	<0.0022U	-
cis-1,2-dichloroethene	mg/kg	0.0012	100	<0.0012U	<0.0012U	-	<0.0013U	<0.0016U	-
Dichloromethane	mg/kg	0.0018	100	<0.0018U	<0.0018U	-	<0.002U	<0.0025U	-
Ethylbenzene	mg/kg	0.0016	41	<0.0016U	<0.0016U	-	<0.0018U	<0.0023U	-
Methyl-tert-butyl ether	mg/kg	0.0028	100	<0.0028U	<0.0028U	-	<0.0031U	<0.0039U	-
n-butylbenzene	mg/kg	0.0029	100	<0.0029U	<0.0029U	-	<0.0031U	<0.004U	-
n-propylbenzene	mg/kg	0.0016	100	<0.0016U	<0.0016U	-	<0.0018U	<0.0022U	-
sec-butylbenzene	mg/kg	0.0018	100	<0.0019U	<0.0018U	-	<0.002U	<0.0026U	-
Trichloroethene	mg/kg	0.0011	21	<0.0011U	<0.0011U	-	<0.0012U	<0.0016U	-
tert-butylbenzene	mg/kg	0.0014	100	<0.0014U	<0.0014U	-	<0.0015U	<0.0019U	-
Tetrachloroethene	mg/kg	0.0015	19	<0.0015U	<0.0015U	-	<0.0017U	<0.0021U	-
Toluene	mg/kg	0.0013	100	<0.0013U	<0.0013U	-	<0.0014U	<0.0018U	-
trans-1,2-dichloroethene	mg/kg	0.0019	100	<0.0019U	<0.0019U	-	<0.0021U	<0.0027U	-
Vinyl chloride	mg/kg	0.0028	0.9	<0.0028U	<0.0028U	-	<0.003U	<0.0038U	-
Xylene Total	mg/kg	0.0032	100	<0.0033U	<0.0032U	-	<0.0036U	<0.0045U	-

Notes:

NYSDEC DER-10 App 5 - Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010
Concentrations detected above restricted residentual use for Imported fill or soil are bolded and highlighted in grey
U non detect
J estimated value
J+ estimated value; however value is likely to higher due to higher concentration of the analyte in sample due to positive bias
J- estimated value; however value is likely to lower due to lower concentration of the analyte in sample due to negative bias
UJ non detect; however the reported quantation limit is estimated

TABLE 5
Summary of Analytical Results for Potential Reuse

Former Sperry Remington Site - North Portion
Elmira, New York

				Windrow 7 Section 3			Windrow 7 Section 4		
			Sample ID	W7, S3, A 71317	W7, S3, B 71317	W7, S3, C 71317	W7, S4, A 71317	W7, S4, B 71317	W7, S4, C 71317
			Sampled Date	7/13/2017	7/13/2017	7/13/2017	7/13/2017	7/13/2017	7/13/2017
Chemical Group	**Units**	**EQL**	NYSDEC DER-10 App 5						
PCBs									
Arochlor 1016	mg/kg	0.0092		-	-	<0.0099U	-	-	<0.0095U
Arochlor 1221	mg/kg	0.009		-	-	<0.0096U	-	-	<0.0093U
Arochlor 1232	mg/kg	0.0069		-	-	<0.0074U	-	-	<0.0071U
Arochlor 1242	mg/kg	0.014		-	-	<0.015U	-	-	<0.014U
Arochlor 1248	mg/kg	0.017		-	-	0.5J	-	-	0.69J
Arochlor 1254	mg/kg	0.017		-	-	0.24J	-	-	0.36J
Arochlor 1260	mg/kg	0.012		-	-	0.092J	-	-	0.099J
Arochlor 1268	mg/kg	0.0053		-	-	<0.0057U	-	-	<0.0055U
Arochlor 1262	mg/kg	0.012		-	-	<0.013U	-	-	<0.013U
Total PCBs	mg/kg		1	-	-	0.8623	-	-	**1.178**
Inorganics									
Arsenic	mg/kg	1	16	-	-	7.4	-	-	4.8
Barium	mg/kg	20	400	-	-	78	-	-	40
Beryllium	mg/kg	0.41	72	-	-	0.4J	-	-	0.26J
Cadmium	mg/kg	0.12	4.3	-	-	0.16J	-	-	<0.12U
Chromium (III+VI)	mg/kg	0.51	110	-	-	11	-	-	6.8
Copper	mg/kg	2.5	270	-	-	23	-	-	17
Lead	mg/kg	1	400	-	-	24	-	-	17
Manganese	mg/kg	1.5	2000	-	-	470	-	-	300
Nickel	mg/kg	4.1	310	-	-	18	-	-	12
Selenium	mg/kg	0.4	180	-	-	<0.47U	-	-	<0.43U
Silver	mg/kg	0.17	180	-	-	<0.2U	-	-	<0.18U
Zinc	mg/kg	2	10000	-	-	67	-	-	47
Mercury	mg/kg	0.028	0.81	-	-	0.043	-	-	0.04
Cyanide Total	mg/kg	0.14	27	-	-	<0.15U	-	-	0.39J
SVOCs									
1,4-Dioxane	mg/kg	0.0053	13	-	-	<0.0056U	-	-	<0.027U
2,4,5-trichlorophenol	mg/kg	0.0034		-	-	<0.0035U	-	-	<0.017U
2,4,6-trichlorophenol	mg/kg	0.0031		-	-	<0.0032U	-	-	<0.016U
2,4-Dinitrotoluene	mg/kg	0.0047		-	-	<0.0049U	-	-	<0.023U
2-methylphenol	mg/kg	0.0031	100	-	-	<0.0033U	-	-	<0.016U
4-methylphenol	mg/kg	0.0031	100	-	-	0.0055J	-	-	<0.016U
Acenaphthene	mg/kg	0.0024	100	-	-	<0.0025U	-	-	<0.012U
Acenaphthylene	mg/kg	0.0024	100	-	-	0.02	-	-	0.044
Anthracene	mg/kg	0.0026	100	-	-	0.045	-	-	0.083
Benz(a)anthracene	mg/kg	0.0071	1	-	-	0.15	-	-	0.35
Benzo(a) pyrene	mg/kg	0.0071	1	-	-	0.15	-	-	0.3
Benzo(b)fluoranthene	mg/kg	0.0071	1	-	-	0.16	-	-	0.36
Benzo(g,h,i)perylene	mg/kg	0.0071	100	-	-	0.14	-	-	0.24
Benzo(k)fluoranthene	mg/kg	0.0071	3.9	-	-	0.077	-	-	0.14
Chrysene	mg/kg	0.0071	3.9	-	-	0.13	-	-	0.3
Dibenz(a,h)anthracene	mg/kg	0.0029	0.33	-	-	0.035	-	-	0.063
Dibenzofuran	mg/kg	0.0028	59	-	-	0.0069J	-	-	<0.014U
Fluoranthene	mg/kg	0.0071	100	-	-	0.26	-	-	0.49
Fluorene	mg/kg	0.0025	100	-	-	0.007J	-	-	<0.013U
Hexachlorobenzene	mg/kg	0.0028	1.2	-	-	<0.003U	-	-	<0.014U
Hexachlorobutadiene	mg/kg	0.0022		-	-	<0.0023U	-	-	<0.011U
Hexachloroethane	mg/kg	0.0025		-	-	<0.0027U	-	-	<0.013U
Indeno(1,2,3-c,d)pyrene	mg/kg	0.0071	0.5	-	-	0.13	-	-	0.21
Naphthalene	mg/kg	0.0026	100	-	-	0.022	-	-	0.029J
Nitrobenzene	mg/kg	0.0027		-	-	<0.0028U	-	-	<0.014U
Pentachlorophenol	mg/kg	0.067	6.7	-	-	<0.07U	-	-	<0.33U
Phenanthrene	mg/kg	0.0071	100	-	-	0.15	-	-	0.28
Phenol	mg/kg	0.0048	100	-	-	<0.005U	-	-	<0.024U
Pyrene	mg/kg	0.0071	100	-	-	0.23	-	-	0.52
Pyridine	mg/kg	0.0034		-	-	<0.0035U	-	-	<0.017U
VOCs									
1,1,1-trichloroethane	mg/kg	0.0019	100	<0.0021U	<0.0023U	-	<0.0024U	<0.0021U	-
1,1-dichloroethane	mg/kg	0.0014	26	<0.0015U	<0.0016U	-	<0.0017U	<0.0015U	-
1,1-dichloroethene	mg/kg	0.0021	100	<0.0024U	<0.0026U	-	<0.0027U	<0.0024U	-
1,2,4-trimethylbenzene	mg/kg	0.001	52	<0.0011U	<0.0012U	-	<0.0013U	<0.0011U	-
1,2-dichlorobenzene	mg/kg	0.003	100	<0.0034U	<0.0036U	-	<0.0039U	<0.0033U	-
1,2-dichloroethane	mg/kg	0.0011	3.1	<0.0012U	<0.0013U	-	<0.0014U	<0.0012U	-
1,3,5-trimethylbenzene	mg/kg	0.0013	52	<0.0015U	<0.0015U	-	<0.0017U	<0.0014U	-
1,3-dichlorobenzene	mg/kg	0.0012	49	<0.0013U	<0.0014U	-	<0.0015U	<0.0013U	-
1,4-dichlorobenzene	mg/kg	0.00077	13	<0.00086U	<0.00092U	-	<0.00098U	<0.00084U	-
Methyl Ethyl Ketone	mg/kg	0.0022	100	<0.0025U	<0.0026U	-	<0.0028U	<0.0024U	-
Acetone	mg/kg	0.0024	100	<0.0027U	<0.0028U	-	<0.003U	<0.0026U	-
Benzene	mg/kg	0.0015	4.8	<0.0017U	<0.0018U	-	<0.0019U	<0.0016U	-
Carbon tetrachloride	mg/kg	0.0025	2.4	<0.0028U	<0.003U	-	<0.0032U	<0.0027U	-
Chlorobenzene	mg/kg	0.0012	100	<0.0013U	<0.0014U	-	<0.0015U	<0.0013U	-
Chloroform	mg/kg	0.0016	49	<0.0018U	<0.0019U	-	<0.002U	<0.0017U	-
cis-1,2-dichloroethene	mg/kg	0.0012	100	<0.0013U	<0.0014U	-	<0.0015U	<0.0013U	-
Dichloromethane	mg/kg	0.0018	100	<0.002U	<0.0021U	-	<0.0023U	<0.0019U	-
Ethylbenzene	mg/kg	0.0016	41	<0.0018U	<0.0019U	-	<0.0021U	<0.0018U	-
Methyl-tert-butyl ether	mg/kg	0.0028	100	<0.0031U	<0.0033U	-	<0.0035U	<0.003U	-
n-butylbenzene	mg/kg	0.0029	100	<0.0032U	<0.0034U	-	<0.0036U	<0.0031U	-
n-propylbenzene	mg/kg	0.0016	100	<0.0018U	<0.0019U	-	<0.002U	<0.0017U	-
sec-butylbenzene	mg/kg	0.0018	100	<0.0021U	<0.0022U	-	<0.0023U	<0.002U	-
Trichloroethene	mg/kg	0.0011	21	<0.0013U	<0.0013U	-	<0.0014U	<0.0012U	-
tert-butylbenzene	mg/kg	0.0014	100	<0.0015U	<0.0016U	-	<0.0018U	<0.0015U	-
Tetrachloroethene	mg/kg	0.0015	19	<0.0017U	<0.0018U	-	<0.0019U	<0.0017U	-
Toluene	mg/kg	0.0013	100	<0.0014U	<0.0015U	-	<0.0016U	<0.0014U	-
trans-1,2-dichloroethene	mg/kg	0.0019	100	<0.0021U	<0.0023U	-	<0.0024U	<0.0021U	-
Vinyl chloride	mg/kg	0.0028	0.9	<0.0031U	<0.0033U	-	<0.0035U	<0.003U	-
Xylene Total	mg/kg	0.0032	100	<0.0036U	<0.0039U	-	<0.0041U	<0.0036U	-

Notes:

NYSDEC DER-10 App 5 - Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010
Concentrations detected above restricted residentual use for Imported fill or soil are bolded and highlighted in grey
U non detect
J estimated value
J+ estimated value; however value is likely to higher due to higher concentration of the analyte in sample due to positive bias
J- estimated value; however value is likely to lower due to lower concentration of the analyte in sample due to negative bias
UJ non detect; however the reported quantation limit is estimated

TABLE 5
Summary of Analytical Results for Potential Reuse

Former Sperry Remington Site - North Portion
Elmira, New York

				Windrow 7 Section 5			Windrow 8 Section 1		
			Sample ID	W7, S5, A 71317	W7, S5, B 71317	W7, S5, C 71317	W8, S1, A 71317	W8, S1, B 71317	W8, S1, C 71317
			Sampled Date	7/13/2017	7/13/2017	7/13/2017	7/13/2017	7/13/2017	7/13/2017
Chemical Group	**Units**	**EQL**	NYSDEC DER-10 App 5						
PCBs									
Arochlor 1016	mg/kg	0.0092		-	-	<0.0095U	-	-	<0.0096U
Arochlor 1221	mg/kg	0.009		-	-	<0.0093U	-	-	<0.0093U
Arochlor 1232	mg/kg	0.0069		-	-	<0.0071U	-	-	<0.0071U
Arochlor 1242	mg/kg	0.014		-	-	<0.014U	-	-	<0.014U
Arochlor 1248	mg/kg	0.017		-	-	0.24J	-	-	0.63J
Arochlor 1254	mg/kg	0.017		-	-	0.12J	-	-	0.32J
Arochlor 1260	mg/kg	0.012		-	-	0.047J	-	-	0.16J
Arochlor 1268	mg/kg	0.0053		-	-	<0.0055U	-	-	<0.0055U
Arochlor 1262	mg/kg	0.012		-	-	<0.013U	-	-	<0.013U
Total PCBs	mg/kg		1	-	-	0.4362	-	-	**1.139**
Inorganics									
Arsenic	mg/kg	1	16	-	-	5.5	-	-	7.3
Barium	mg/kg	20	400	-	-	52	-	-	98
Beryllium	mg/kg	0.41	72	-	-	0.3J	-	-	0.36J
Cadmium	mg/kg	0.12	4.3	-	-	<0.13U	-	-	0.27J
Chromium (III+VI)	mg/kg	0.51	110	-	-	7.5	-	-	13
Copper	mg/kg	2.5	270	-	-	21	-	-	67
Lead	mg/kg	1	400	-	-	18	-	-	75
Manganese	mg/kg	1.5	2000	-	-	490	-	-	440
Nickel	mg/kg	4.1	310	-	-	14	-	-	18
Selenium	mg/kg	0.4	180	-	-	<0.46U	-	-	<0.42U
Silver	mg/kg	0.17	180	-	-	<0.19U	-	-	<0.18U
Zinc	mg/kg	2	10000	-	-	52	-	-	120
Mercury	mg/kg	0.028	0.81	-	-	0.047	-	-	**0.86**
Cyanide Total	mg/kg	0.14	27	-	-	<0.16U	-	-	0.22J
SVOCs									
1,4-Dioxane	mg/kg	0.0053	13	-	-	<0.0053U	-	-	<0.027U
2,4,5-trichlorophenol	mg/kg	0.0034		-	-	<0.0034U	-	-	<0.017U
2,4,6-trichlorophenol	mg/kg	0.0031		-	-	<0.0031U	-	-	<0.016U
2,4-Dinitrotoluene	mg/kg	0.0047		-	-	<0.0047U	-	-	<0.024U
2-methylphenol	mg/kg	0.0031	100	-	-	<0.0031U	-	-	<0.016U
4-methylphenol	mg/kg	0.0031	100	-	-	<0.0031U	-	-	<0.016U
Acenaphthene	mg/kg	0.0024	100	-	-	<0.0024U	-	-	<0.012U
Acenaphthylene	mg/kg	0.0024	100	-	-	0.017	-	-	0.14
Anthracene	mg/kg	0.0026	100	-	-	0.033	-	-	0.15
Benz(a)anthracene	mg/kg	0.0071	1	-	-	0.16	-	-	0.49
Benzo(a) pyrene	mg/kg	0.0071	1	-	-	0.18	-	-	0.54
Benzo(b)fluoranthene	mg/kg	0.0071	1	-	-	0.21	-	-	0.73
Benzo(g,h,i)perylene	mg/kg	0.0071	100	-	-	0.16	-	-	0.72
Benzo(k)fluoranthene	mg/kg	0.0071	3.9	-	-	0.069	-	-	0.2
Chrysene	mg/kg	0.0071	3.9	-	-	0.14	-	-	0.48
Dibenz(a,h)anthracene	mg/kg	0.0029	0.33	-	-	0.039	-	-	0.13
Dibenzofuran	mg/kg	0.0028	59	-	-	0.0045J	-	-	0.055J
Fluoranthene	mg/kg	0.0071	100	-	-	0.24	-	-	0.74
Fluorene	mg/kg	0.0025	100	-	-	0.0031J	-	-	0.026J
Hexachlorobenzene	mg/kg	0.0028	1.2	-	-	<0.0028U	-	-	<0.014U
Hexachlorobutadiene	mg/kg	0.0022		-	-	<0.0022U	-	-	<0.011U
Hexachloroethane	mg/kg	0.0025		-	-	<0.0025U	-	-	<0.013U
Indeno(1,2,3-c,d)pyrene	mg/kg	0.0071	0.5	-	-	0.14	-	-	**0.58**
Naphthalene	mg/kg	0.0026	100	-	-	0.016	-	-	0.17
Nitrobenzene	mg/kg	0.0027		-	-	<0.0027U	-	-	<0.014U
Pentachlorophenol	mg/kg	0.067	6.7	-	-	<0.067U	-	-	<0.34U
Phenanthrene	mg/kg	0.0071	100	-	-	0.072	-	-	0.34
Phenol	mg/kg	0.0048	100	-	-	<0.0048U	-	-	<0.024U
Pyrene	mg/kg	0.0071	100	-	-	0.22	-	-	0.69
Pyridine	mg/kg	0.0034		-	-	<0.0034U	-	-	<0.017U
VOCs									
1,1,1-trichloroethane	mg/kg	0.0019	100	<0.0021U	<0.0023U	-	<0.002U	<0.002U	-
1,1-dichloroethane	mg/kg	0.0014	26	<0.0015U	<0.0016U	-	<0.0014U	<0.0015U	-
1,1-dichloroethene	mg/kg	0.0021	100	<0.0024U	<0.0026U	-	<0.0022U	<0.0023U	-
1,2,4-trimethylbenzene	mg/kg	0.001	52	<0.0011U	<0.0012U	-	<0.001U	<0.0011U	-
1,2-dichlorobenzene	mg/kg	0.003	100	<0.0034U	<0.0037U	-	<0.0031U	<0.0033U	-
1,2-dichloroethane	mg/kg	0.0011	3.1	<0.0012U	<0.0013U	-	<0.0011U	<0.0012U	-
1,3,5-trimethylbenzene	mg/kg	0.0013	52	<0.0014U	<0.0016U	-	<0.0013U	<0.0014U	-
1,3-dichlorobenzene	mg/kg	0.0012	49	<0.0013U	<0.0014U	-	<0.0012U	<0.0013U	-
1,4-dichlorobenzene	mg/kg	0.00077	13	<0.00085U	<0.00093U	-	<0.00079U	<0.00082U	-
Methyl Ethyl Ketone	mg/kg	0.0022	100	<0.0024U	<0.0026U	-	<0.0023U	<0.0023U	-
Acetone	mg/kg	0.0024	100	<0.0026U	<0.0029U	-	<0.0025U	<0.0025U	-
Benzene	mg/kg	0.0015	4.8	<0.0016U	<0.0018U	-	<0.0015U	<0.0016U	-
Carbon tetrachloride	mg/kg	0.0025	2.4	<0.0028U	<0.003U	-	<0.0026U	<0.0027U	-
Chlorobenzene	mg/kg	0.0012	100	<0.0013U	<0.0014U	-	<0.0012U	<0.0013U	-
Chloroform	mg/kg	0.0016	49	<0.0018U	<0.0019U	-	<0.0016U	<0.0017U	-
cis-1,2-dichloroethene	mg/kg	0.0012	100	<0.0013U	<0.0014U	-	<0.0012U	<0.0013U	-
Dichloromethane	mg/kg	0.0018	100	<0.002U	<0.0021U	-	<0.0018U	<0.0019U	-
Ethylbenzene	mg/kg	0.0016	41	<0.0018U	<0.002U	-	<0.0017U	<0.0017U	-
Methyl-tert-butyl ether	mg/kg	0.0028	100	<0.0031U	<0.0033U	-	<0.0029U	<0.003U	-
n-butylbenzene	mg/kg	0.0029	100	<0.0032U	<0.0034U	-	<0.0029U	<0.0031U	-
n-propylbenzene	mg/kg	0.0016	100	<0.0018U	<0.0019U	-	<0.0016U	<0.0017U	-
sec-butylbenzene	mg/kg	0.0018	100	<0.002U	<0.0022U	-	<0.0019U	<0.002U	-
Trichloroethene	mg/kg	0.0011	21	<0.0013U	<0.0014U	-	<0.0012U	<0.0012U	-
tert-butylbenzene	mg/kg	0.0014	100	<0.0015U	<0.0017U	-	<0.0014U	<0.0015U	-
Tetrachloroethene	mg/kg	0.0015	19	<0.0017U	<0.0018U	-	<0.0016U	<0.0016U	-
Toluene	mg/kg	0.0013	100	<0.0014U	<0.0015U	-	<0.0013U	<0.0014U	-
trans-1,2-dichloroethene	mg/kg	0.0019	100	<0.0021U	<0.0023U	-	<0.002U	<0.0021U	-
Vinyl chloride	mg/kg	0.0028	0.9	<0.0031U	<0.0033U	-	<0.0029U	<0.003U	-
Xylene Total	mg/kg	0.0032	100	<0.0036U	<0.0039U	-	<0.0033U	<0.0035U	-

Notes:

NYSDEC DER-10 App 5 - Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010
Concentrations detected above restricted residentual use for Imported fill or soil are bolded and highlighted in grey
U non detect
J estimated value
J+ estimated value; however value is likely to higher due to higher concentration of the analyte in sample due to positive bias
J- estimated value; however value is likely to lower due to lower concentration of the analyte in sample due to negative bias
UJ non detect; however the reported quantation limit is estimated

TABLE 5
Summary of Analytical Results for Potential Reuse

Former Sperry Remington Site - North Portion
Elmira, New York

				Windrow 8 Section 2			Windrow 8 Section 3		
			Sample ID	W8, S2, A 71317	W8, S2, B 71317	W8, S2, C 71317	W8, S3, A 71317	W8, S3, B 71317	W8, S3, C 71317
			Sampled Date	7/13/2017	7/13/2017	7/13/2017	7/13/2017	7/13/2017	7/13/2017
Chemical Group	**Units**	**EQL**	NYSDEC DER-10 App 5						
PCBs									
Arochlor 1016	mg/kg	0.0092		-	-	<0.0098U	-	-	<0.01U
Arochlor 1221	mg/kg	0.009		-	-	<0.0096U	-	-	<0.0098U
Arochlor 1232	mg/kg	0.0069		-	-	<0.0073U	-	-	<0.0075U
Arochlor 1242	mg/kg	0.014		-	-	<0.015U	-	-	<0.015U
Arochlor 1248	mg/kg	0.017		-	-	0.48J	-	-	0.17J
Arochlor 1254	mg/kg	0.017		-	-	0.29J	-	-	0.079J
Arochlor 1260	mg/kg	0.012		-	-	0.11J	-	-	0.03J
Arochlor 1268	mg/kg	0.0053		-	-	<0.0056U	-	-	<0.0057U
Arochlor 1262	mg/kg	0.012		-	-	<0.013U	-	-	<0.014U
Total PCBs	mg/kg		1	-	-	0.9102	-	-	0.31
Inorganics									
Arsenic	mg/kg	1	16	-	-	6.6	-	-	7.5
Barium	mg/kg	20	400	-	-	67	-	-	76
Beryllium	mg/kg	0.41	72	-	-	0.26J	-	-	0.42J
Cadmium	mg/kg	0.12	4.3	-	-	0.17J	-	-	0.13J
Chromium (III+VI)	mg/kg	0.51	110	-	-	9.2	-	-	11
Copper	mg/kg	2.5	270	-	-	36	-	-	23
Lead	mg/kg	1	400	-	-	45	-	-	33
Manganese	mg/kg	1.5	2000	-	-	370	-	-	390
Nickel	mg/kg	4.1	310	-	-	15	-	-	19
Selenium	mg/kg	0.4	180	-	-	0.67J	-	-	<0.47U
Silver	mg/kg	0.17	180	-	-	<0.18U	-	-	<0.2U
Zinc	mg/kg	2	10000	-	-	75	-	-	83
Mercury	mg/kg	0.028	0.81	-	-	0.6	-	-	0.16
Cyanide Total	mg/kg	0.14	27	-	-	0.28J	-	-	0.64
SVOCs									
1,4-Dioxane	mg/kg	0.0053	13	-	-	<0.028U	-	-	<0.012U
2,4,5-trichlorophenol	mg/kg	0.0034		-	-	<0.018U	-	-	<0.0073U
2,4,6-trichlorophenol	mg/kg	0.0031		-	-	<0.016U	-	-	<0.0067U
2,4-Dinitrotoluene	mg/kg	0.0047		-	-	<0.025U	-	-	<0.01U
2-methylphenol	mg/kg	0.0031	100	-	-	<0.016U	-	-	0.0096J
4-methylphenol	mg/kg	0.0031	100	-	-	<0.016U	-	-	0.045J
Acenaphthene	mg/kg	0.0024	100	-	-	<0.012U	-	-	0.017
Acenaphthylene	mg/kg	0.0024	100	-	-	0.13	-	-	0.37
Anthracene	mg/kg	0.0026	100	-	-	0.2	-	-	0.67
Benz(a)anthracene	mg/kg	0.0071	1	-	-	0.69	-	-	**2**
Benzo(a) pyrene	mg/kg	0.0071	1	-	-	0.7	-	-	**1.8**
Benzo(b)fluoranthene	mg/kg	0.0071	1	-	-	0.76	-	-	**2.1**
Benzo(g,h,i)perylene	mg/kg	0.0071	100	-	-	0.73	-	-	1.4
Benzo(k)fluoranthene	mg/kg	0.0071	3.9	-	-	0.3	-	-	0.85
Chrysene	mg/kg	0.0071	3.9	-	-	0.62	-	-	1.6
Dibenz(a,h)anthracene	mg/kg	0.0029	0.33	-	-	0.15	-	-	**0.36**
Dibenzofuran	mg/kg	0.0028	59	-	-	0.048J	-	-	0.11
Fluoranthene	mg/kg	0.0071	100	-	-	1	-	-	4.4
Fluorene	mg/kg	0.0025	100	-	-	0.034J	-	-	0.12
Hexachlorobenzene	mg/kg	0.0028	1.2	-	-	<0.015U	-	-	<0.0062U
Hexachlorobutadiene	mg/kg	0.0022		-	-	<0.012U	-	-	<0.0048U
Hexachloroethane	mg/kg	0.0025		-	-	<0.013U	-	-	<0.0055U
Indeno(1,2,3-c,d)pyrene	mg/kg	0.0071	0.5	-	-	**0.61**	-	-	**1.3**
Naphthalene	mg/kg	0.0026	100	-	-	0.13	-	-	0.19
Nitrobenzene	mg/kg	0.0027		-	-	<0.014U	-	-	<0.0058U
Pentachlorophenol	mg/kg	0.067	6.7	-	-	<0.35U	-	-	<0.14U
Phenanthrene	mg/kg	0.0071	100	-	-	0.55	-	-	2.5
Phenol	mg/kg	0.0048	100	-	-	<0.025U	-	-	0.033J
Pyrene	mg/kg	0.0071	100	-	-	0.94	-	-	3.8
Pyridine	mg/kg	0.0034		-	-	<0.018U	-	-	<0.0073U
VOCs									
1,1,1-trichloroethane	mg/kg	0.0019	100	<0.0019U	<0.002U	-	<0.0022U	<0.0023U	-
1,1-dichloroethane	mg/kg	0.0014	26	<0.0014U	<0.0015U	-	<0.0016U	<0.0016U	-
1,1-dichloroethene	mg/kg	0.0021	100	<0.0022U	<0.0023U	-	<0.0025U	<0.0026U	-
1,2,4-trimethylbenzene	mg/kg	0.001	52	<0.001U	<0.0011U	-	<0.0012U	<0.0012U	-
1,2-dichlorobenzene	mg/kg	0.003	100	<0.003U	<0.0032U	-	<0.0035U	<0.0036U	-
1,2-dichloroethane	mg/kg	0.0011	3.1	<0.0011U	<0.0012U	-	<0.0013U	<0.0013U	-
1,3,5-trimethylbenzene	mg/kg	0.0013	52	<0.0013U	<0.0014U	-	<0.0015U	<0.0016U	-
1,3-dichlorobenzene	mg/kg	0.0012	49	<0.0012U	<0.0013U	-	<0.0014U	<0.0014U	-
1,4-dichlorobenzene	mg/kg	0.00077	13	<0.00077U	<0.00082U	-	<0.00089U	<0.00092U	-
Methyl Ethyl Ketone	mg/kg	0.0022	100	<0.0022U	<0.0023U	-	<0.0025U	<0.0026U	-
Acetone	mg/kg	0.0024	100	<0.0024U	<0.0025U	-	<0.0028U	<0.0028U	-
Benzene	mg/kg	0.0015	4.8	<0.0015U	<0.0016U	-	<0.0017U	<0.0018U	-
Carbon tetrachloride	mg/kg	0.0025	2.4	<0.0025U	<0.0027U	-	<0.0029U	<0.003U	-
Chlorobenzene	mg/kg	0.0012	100	<0.0012U	<0.0013U	-	<0.0014U	<0.0014U	-
Chloroform	mg/kg	0.0016	49	<0.0016U	<0.0017U	-	<0.0018U	<0.0019U	-
cis-1,2-dichloroethene	mg/kg	0.0012	100	<0.0012U	<0.0013U	-	<0.0014U	<0.0014U	-
Dichloromethane	mg/kg	0.0018	100	<0.0018U	<0.0019U	-	<0.0021U	0.0021J	-
Ethylbenzene	mg/kg	0.0016	41	<0.0016U	<0.0017U	-	<0.0019U	<0.0019U	-
Methyl-tert-butyl ether	mg/kg	0.0028	100	<0.0028U	<0.003U	-	<0.0032U	<0.0033U	-
n-butylbenzene	mg/kg	0.0029	100	<0.0029U	<0.0031U	-	<0.0033U	<0.0034U	-
n-propylbenzene	mg/kg	0.0016	100	<0.0016U	<0.0017U	-	<0.0018U	<0.0019U	-
sec-butylbenzene	mg/kg	0.0018	100	<0.0018U	<0.002U	-	<0.0021U	<0.0022U	-
Trichloroethene	mg/kg	0.0011	21	<0.0011U	<0.0012U	-	<0.0013U	<0.0014U	-
tert-butylbenzene	mg/kg	0.0014	100	<0.0014U	<0.0015U	-	<0.0016U	<0.0017U	-
Tetrachloroethene	mg/kg	0.0015	19	<0.0015U	<0.0016U	-	<0.0017U	<0.0018U	-
Toluene	mg/kg	0.0013	100	<0.0013U	<0.0014U	-	<0.0015U	<0.0015U	-
trans-1,2-dichloroethene	mg/kg	0.0019	100	<0.0019U	<0.002U	-	<0.0022U	<0.0023U	-
Vinyl chloride	mg/kg	0.0028	0.9	<0.0028U	<0.003U	-	<0.0032U	<0.0033U	-
Xylene Total	mg/kg	0.0032	100	<0.0033U	<0.0035U	-	<0.0038U	<0.0039U	-

Notes:

NYSDEC DER-10 App 5 - Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010
Concentrations detected above restricted residentual use for Imported fill or soil are bolded and highlighted in grey
U non detect
J estimated value
J+ estimated value; however value is likely to higher due to higher concentration of the analyte in sample due to positive bias
J- estimated value; however value is likely to lower due to lower concentration of the analyte in sample due to negative bias
UJ non detect; however the reported quantation limit is estimated

TABLE 5
Summary of Analytical Results for Potential Reuse

Former Sperry Remington Site - North Portion
Elmira, New York

				Windrow 9 Section 1			Windrow Between 7-8 Section 1		
			Sample ID	W9, S1, A 072417	W9, S1, B 072417	W9, S1, C 072417	WB 7-8, S1, A 0724	WB 7-8, S1, B 0724	WB 7-8, S1, C 0724
			Sampled Date	7/24/2017	7/24/2017	7/24/2017	7/24/2017	7/24/2017	7/24/2017
Chemical Group	**Units**	**EQL**	NYSDEC DER-10 App 5						
PCBs									
Arochlor 1016	mg/kg	0.0092		-	-	<0.0095U	-	-	<0.012U
Arochlor 1221	mg/kg	0.009		-	-	<0.0093U	-	-	<0.012U
Arochlor 1232	mg/kg	0.0069		-	-	<0.0071U	-	-	<0.0089U
Arochlor 1242	mg/kg	0.014		-	-	<0.014U	-	-	<0.018U
Arochlor 1248	mg/kg	0.017		-	-	0.15J	-	-	1.3J
Arochlor 1254	mg/kg	0.017		-	-	0.053J	-	-	0.5J
Arochlor 1260	mg/kg	0.012		-	-	<0.012U	-	-	0.054J
Arochlor 1268	mg/kg	0.0053		-	-	<0.0055U	-	-	<0.0069U
Arochlor 1262	mg/kg	0.012		-	-	<0.013U	-	-	<0.016U
Total PCBs	mg/kg		1	-	-	0.2382	-	-	**1.891**
Inorganics									
Arsenic	mg/kg	1	16	-	-	6.7	-	-	5.6
Barium	mg/kg	20	400	-	-	68	-	-	90
Beryllium	mg/kg	0.41	72	-	-	0.33J	-	-	0.31J
Cadmium	mg/kg	0.12	4.3	-	-	0.15J	-	-	0.23J
Chromium (III+VI)	mg/kg	0.51	110	-	-	10	-	-	9.2
Copper	mg/kg	2.5	270	-	-	34	-	-	29
Lead	mg/kg	1	400	-	-	35	-	-	39
Manganese	mg/kg	1.5	2000	-	-	500	-	-	380
Nickel	mg/kg	4.1	310	-	-	19	-	-	19
Selenium	mg/kg	0.4	180	-	-	<0.45U	-	-	<0.55U
Silver	mg/kg	0.17	180	-	-	<0.19U	-	-	<0.23U
Zinc	mg/kg	2	10000	-	-	64	-	-	63
Mercury	mg/kg	0.028	0.81	-	-	0.022J	-	-	0.044J
Cyanide Total	mg/kg	0.14	27	-	-	0.37J	-	-	0.34J
SVOCs									
1,4-Dioxane	mg/kg	0.0053	13	-	-	<0.016U	-	-	<0.0069U
2,4,5-trichlorophenol	mg/kg	0.0034		-	-	<0.01U	-	-	<0.0043U
2,4,6-trichlorophenol	mg/kg	0.0031		-	-	<0.0095U	-	-	<0.004U
2,4-Dinitrotoluene	mg/kg	0.0047		-	-	<0.014U	-	-	<0.006U
2-methylphenol	mg/kg	0.0031	100	-	-	<0.0096U	-	-	<0.004U
4-methylphenol	mg/kg	0.0031	100	-	-	<0.0096U	-	-	0.0082J
Acenaphthene	mg/kg	0.0024	100	-	-	0.021J	-	-	0.012
Acenaphthylene	mg/kg	0.0024	100	-	-	0.052	-	-	0.029
Anthracene	mg/kg	0.0026	100	-	-	0.077	-	-	0.045
Benz(a)anthracene	mg/kg	0.0071	1	-	-	0.29	-	-	0.14
Benzo(a) pyrene	mg/kg	0.0071	1	-	-	0.31	-	-	0.15
Benzo(b)fluoranthene	mg/kg	0.0071	1	-	-	0.41	-	-	0.19
Benzo(g,h,i)perylene	mg/kg	0.0071	100	-	-	0.34	-	-	0.16
Benzo(k)fluoranthene	mg/kg	0.0071	3.9	-	-	0.14	-	-	0.08
Chrysene	mg/kg	0.0071	3.9	-	-	0.36	-	-	0.16
Dibenz(a,h)anthracene	mg/kg	0.0029	0.33	-	-	0.084	-	-	0.035
Dibenzofuran	mg/kg	0.0028	59	-	-	0.027J	-	-	0.0091J
Fluoranthene	mg/kg	0.0071	100	-	-	0.65	-	-	0.29
Fluorene	mg/kg	0.0025	100	-	-	0.026	-	-	0.014
Hexachlorobenzene	mg/kg	0.0028	1.2	-	-	<0.0087U	-	-	<0.0037U
Hexachlorobutadiene	mg/kg	0.0022		-	-	<0.0068U	-	-	<0.0029U
Hexachloroethane	mg/kg	0.0025		-	-	<0.0078U	-	-	<0.0033U
Indeno(1,2,3-c,d)pyrene	mg/kg	0.0071	0.5	-	-	0.31	-	-	0.14
Naphthalene	mg/kg	0.0026	100	-	-	0.047	-	-	0.011
Nitrobenzene	mg/kg	0.0027		-	-	<0.0083U	-	-	<0.0035U
Pentachlorophenol	mg/kg	0.067	6.7	-	-	<0.21U	-	-	<0.086U
Phenanthrene	mg/kg	0.0071	100	-	-	0.28	-	-	0.12
Phenol	mg/kg	0.0048	100	-	-	<0.015U	-	-	<0.0061U
Pyrene	mg/kg	0.0071	100	-	-	0.45	-	-	0.21
Pyridine	mg/kg	0.0034		-	-	<0.01U	-	-	<0.0044U
VOCs									
1,1,1-trichloroethane	mg/kg	0.0019	100	<0.0022U	<0.0023U	-	<0.0028U	<0.0027U	-
1,1-dichloroethane	mg/kg	0.0014	26	<0.0016U	<0.0017U	-	<0.002U	<0.002U	-
1,1-dichloroethene	mg/kg	0.0021	100	<0.0025U	<0.0026U	-	<0.0032U	<0.0031U	-
1,2,4-trimethylbenzene	mg/kg	0.001	52	<0.0012U	<0.0012U	-	<0.0015U	<0.0015U	-
1,2-dichlorobenzene	mg/kg	0.003	100	<0.0035U	<0.0037U	-	<0.0044U	<0.0044U	-
1,2-dichloroethane	mg/kg	0.0011	3.1	<0.0013U	<0.0013U	-	<0.0016U	<0.0016U	-
1,3,5-trimethylbenzene	mg/kg	0.0013	52	<0.0015U	<0.0016U	-	<0.0019U	<0.0019U	-
1,3-dichlorobenzene	mg/kg	0.0012	49	<0.0014U	<0.0015U	-	<0.0018U	<0.0017U	-
1,4-dichlorobenzene	mg/kg	0.00077	13	<0.00089U	<0.00093U	-	<0.0011U	<0.0011U	-
Methyl Ethyl Ketone	mg/kg	0.0022	100	<0.0025U	<0.0026U	-	<0.0032U	<0.0032U	-
Acetone	mg/kg	0.0024	100	<0.0028U	<0.0029U	-	<0.0035U	<0.0034U	-
Benzene	mg/kg	0.0015	4.8	<0.0017U	<0.0018U	-	<0.0022U	<0.0021U	-
Carbon tetrachloride	mg/kg	0.0025	2.4	<0.0029U	<0.003U	-	<0.0037U	<0.0036U	-
Chlorobenzene	mg/kg	0.0012	100	<0.0014U	<0.0014U	-	<0.0017U	<0.0017U	-
Chloroform	mg/kg	0.0016	49	<0.0018U	<0.0019U	-	<0.0023U	<0.0023U	-
cis-1,2-dichloroethene	mg/kg	0.0012	100	<0.0014U	<0.0014U	-	<0.0017U	<0.0017U	-
Dichloromethane	mg/kg	0.0018	100	<0.0021U	<0.0022U	-	<0.0026U	<0.0026U	-
Ethylbenzene	mg/kg	0.0016	41	<0.0019U	<0.002U	-	<0.0024U	<0.0024U	-
Methyl-tert-butyl ether	mg/kg	0.0028	100	<0.0032U	<0.0034U	-	<0.0041U	<0.004U	-
n-butylbenzene	mg/kg	0.0029	100	<0.0033U	<0.0035U	-	<0.0042U	<0.0041U	-
n-propylbenzene	mg/kg	0.0016	100	<0.0018U	<0.0019U	-	<0.0023U	<0.0023U	-
sec-butylbenzene	mg/kg	0.0018	100	<0.0021U	<0.0022U	-	<0.0027U	<0.0027U	-
Trichloroethene	mg/kg	0.0011	21	<0.0013U	<0.0014U	-	<0.0017U	<0.0016U	-
tert-butylbenzene	mg/kg	0.0014	100	<0.0016U	<0.0017U	-	<0.002U	<0.002U	-
Tetrachloroethene	mg/kg	0.0015	19	<0.0017U	<0.0018U	-	<0.0022U	<0.0022U	-
Toluene	mg/kg	0.0013	100	<0.0015U	<0.0015U	-	<0.0019U	<0.0018U	-
trans-1,2-dichloroethene	mg/kg	0.0019	100	<0.0022U	<0.0023U	-	<0.0028U	<0.0028U	-
Vinyl chloride	mg/kg	0.0028	0.9	<0.0032U	<0.0033U	-	<0.0041U	<0.004U	-
Xylene Total	mg/kg	0.0032	100	<0.0038U	<0.0039U	-	<0.0048U	<0.0047U	-

Notes:

NYSDEC DER-10 App 5 - Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010
Concentrations detected above restricted residentual use for Imported fill or soil are bolded and highlighted in grey
U non detect
J estimated value
J+ estimated value; however value is likely to higher due to higher concentration of the analyte in sample due to positive bias
J- estimated value; however value is likely to lower due to lower concentration of the analyte in sample due to negative bias
UJ non detect; however the reported quantation limit is estimated

TABLE 5
Summary of Analytical Results for Potential Reuse

Former Sperry Remington Site - North Portion
Elmira, New York

				Windrow Between 7-8 Section 2			Windrow Between 7-8 Section 3		
			Sample ID	WB 7-8, S2, A 072417	WB 7-8, S2, B 072417	WB 7-8, S2, C 072417	WB 7-8, S3, A 072417	WB 7-8, S3, B 072417	WB 7-8, S3, C 072417
			Sampled Date	7/24/2017	7/24/2017	7/24/2017	7/24/2017	7/24/2017	7/24/2017
Chemical Group	**Units**	**EQL**	NYSDEC DER-10 App 5						
PCBs									
Arochlor 1016	mg/kg	0.0092		-	-	<0.012U	-	-	<0.011U
Arochlor 1221	mg/kg	0.009		-	-	<0.012U	-	-	<0.011U
Arochlor 1232	mg/kg	0.0069		-	-	<0.0089U	-	-	<0.0085U
Arochlor 1242	mg/kg	0.014		-	-	<0.018U	-	-	<0.017U
Arochlor 1248	mg/kg	0.017		-	-	0.79J	-	-	1.3J
Arochlor 1254	mg/kg	0.017		-	-	0.3J	-	-	0.46J
Arochlor 1260	mg/kg	0.012		-	-	0.043J	-	-	0.05J
Arochlor 1268	mg/kg	0.0053		-	-	<0.0069U	-	-	<0.0065U
Arochlor 1262	mg/kg	0.012		-	-	<0.016U	-	-	<0.015U
Total PCBs	mg/kg		1	-	-	**1.17**	-	-	**1.845**
Inorganics									
Arsenic	mg/kg	1	16	-	-	7.2	-	-	7.4
Barium	mg/kg	20	400	-	-	97	-	-	120
Beryllium	mg/kg	0.41	72	-	-	0.41J	-	-	0.45J
Cadmium	mg/kg	0.12	4.3	-	-	0.23J	-	-	0.26J
Chromium (III+VI)	mg/kg	0.51	110	-	-	12	-	-	14
Copper	mg/kg	2.5	270	-	-	33	-	-	33
Lead	mg/kg	1	400	-	-	42	-	-	46
Manganese	mg/kg	1.5	2000	-	-	490	-	-	510
Nickel	mg/kg	4.1	310	-	-	26	-	-	39
Selenium	mg/kg	0.4	180	-	-	<0.55U	-	-	<0.56U
Silver	mg/kg	0.17	180	-	-	<0.23U	-	-	<0.23U
Zinc	mg/kg	2	10000	-	-	74	-	-	110
Mercury	mg/kg	0.028	0.81	-	-	0.066	-	-	0.06
Cyanide Total	mg/kg	0.14	27	-	-	0.3J	-	-	0.4J
SVOCs									
1,4-Dioxane	mg/kg	0.0053	13	-	-	<0.014U	-	-	<0.0065U
2,4,5-trichlorophenol	mg/kg	0.0034		-	-	<0.0087U	-	-	<0.0041U
2,4,6-trichlorophenol	mg/kg	0.0031		-	-	<0.008U	-	-	<0.0038U
2,4-Dinitrotoluene	mg/kg	0.0047		-	-	<0.012U	-	-	<0.0057U
2-methylphenol	mg/kg	0.0031	100	-	-	<0.0081U	-	-	<0.0038U
4-methylphenol	mg/kg	0.0031	100	-	-	0.021J	-	-	0.019J
Acenaphthene	mg/kg	0.0024	100	-	-	0.037	-	-	0.013
Acenaphthylene	mg/kg	0.0024	100	-	-	0.062	-	-	0.12
Anthracene	mg/kg	0.0026	100	-	-	0.1	-	-	0.097
Benz(a)anthracene	mg/kg	0.0071	1	-	-	0.23	-	-	0.18
Benzo(a) pyrene	mg/kg	0.0071	1	-	-	0.22	-	-	0.19
Benzo(b)fluoranthene	mg/kg	0.0071	1	-	-	0.29	-	-	0.27
Benzo(g,h,i)perylene	mg/kg	0.0071	100	-	-	0.22	-	-	0.25
Benzo(k)fluoranthene	mg/kg	0.0071	3.9	-	-	0.1	-	-	0.085
Chrysene	mg/kg	0.0071	3.9	-	-	0.25	-	-	0.26
Dibenz(a,h)anthracene	mg/kg	0.0029	0.33	-	-	0.053	-	-	0.062
Dibenzofuran	mg/kg	0.0028	59	-	-	0.028J	-	-	0.011J
Fluoranthene	mg/kg	0.0071	100	-	-	0.46	-	-	0.31
Fluorene	mg/kg	0.0025	100	-	-	0.044	-	-	0.019
Hexachlorobenzene	mg/kg	0.0028	1.2	-	-	<0.0074U	-	-	<0.0035U
Hexachlorobutadiene	mg/kg	0.0022		-	-	<0.0058U	-	-	<0.0027U
Hexachloroethane	mg/kg	0.0025		-	-	<0.0066U	-	-	<0.0031U
Indeno(1,2,3-c,d)pyrene	mg/kg	0.0071	0.5	-	-	0.18	-	-	0.2
Naphthalene	mg/kg	0.0026	100	-	-	0.03	-	-	0.03
Nitrobenzene	mg/kg	0.0027		-	-	<0.007U	-	-	<0.0033U
Pentachlorophenol	mg/kg	0.067	6.7	-	-	<0.17U	-	-	<0.081U
Phenanthrene	mg/kg	0.0071	100	-	-	0.28	-	-	0.14
Phenol	mg/kg	0.0048	100	-	-	<0.012U	-	-	<0.0058U
Pyrene	mg/kg	0.0071	100	-	-	0.33	-	-	0.26
Pyridine	mg/kg	0.0034		-	-	<0.0088U	-	-	<0.0041U
VOCs									
1,1,1-trichloroethane	mg/kg	0.0019	100	<0.0032U	<0.003U	-	<0.0027U	<0.0022U	-
1,1-dichloroethane	mg/kg	0.0014	26	<0.0023U	<0.0021U	-	<0.0019U	<0.0016U	-
1,1-dichloroethene	mg/kg	0.0021	100	<0.0037U	<0.0034U	-	<0.003U	<0.0025U	-
1,2,4-trimethylbenzene	mg/kg	0.001	52	<0.0017U	<0.0016U	-	<0.0014U	<0.0012U	-
1,2-dichlorobenzene	mg/kg	0.003	100	<0.0052U	<0.0048U	-	<0.0043U	<0.0036U	-
1,2-dichloroethane	mg/kg	0.0011	3.1	<0.0019U	<0.0017U	-	<0.0015U	<0.0013U	-
1,3,5-trimethylbenzene	mg/kg	0.0013	52	<0.0022U	<0.002U	-	<0.0018U	<0.0015U	-
1,3-dichlorobenzene	mg/kg	0.0012	49	<0.0021U	<0.0019U	-	<0.0017U	<0.0014U	-
1,4-dichlorobenzene	mg/kg	0.00077	13	<0.0013U	<0.0012U	-	<0.0011U	<0.00091U	-
Methyl Ethyl Ketone	mg/kg	0.0022	100	<0.0037U	<0.0034U	-	<0.0031U	<0.0026U	-
Acetone	mg/kg	0.0024	100	<0.0041U	<0.0037U	-	<0.0033U	<0.0028U	-
Benzene	mg/kg	0.0015	4.8	<0.0025U	<0.0023U	-	<0.0021U	<0.0018U	-
Carbon tetrachloride	mg/kg	0.0025	2.4	<0.0043U	<0.0039U	-	<0.0035U	<0.003U	-
Chlorobenzene	mg/kg	0.0012	100	<0.002U	<0.0019U	-	<0.0017U	<0.0014U	-
Chloroform	mg/kg	0.0016	49	<0.0027U	<0.0025U	-	<0.0022U	<0.0019U	-
cis-1,2-dichloroethene	mg/kg	0.0012	100	<0.002U	<0.0019U	-	<0.0017U	<0.0014U	-
Dichloromethane	mg/kg	0.0018	100	<0.003U	<0.0028U	-	<0.0025U	<0.0021U	-
Ethylbenzene	mg/kg	0.0016	41	0.004J	<0.0026U	-	<0.0023U	<0.0019U	-
Methyl-tert-butyl ether	mg/kg	0.0028	100	<0.0048U	<0.0044U	-	<0.0039U	<0.0033U	-
n-butylbenzene	mg/kg	0.0029	100	<0.0049U	<0.0045U	-	<0.004U	<0.0034U	-
n-propylbenzene	mg/kg	0.0016	100	<0.0027U	<0.0025U	-	<0.0022U	<0.0019U	-
sec-butylbenzene	mg/kg	0.0018	100	<0.0031U	<0.0029U	-	<0.0026U	<0.0022U	-
Trichloroethene	mg/kg	0.0011	21	<0.0019U	<0.0018U	-	<0.0016U	<0.0013U	-
tert-butylbenzene	mg/kg	0.0014	100	<0.0024U	<0.0022U	-	<0.0019U	<0.0016U	-
Tetrachloroethene	mg/kg	0.0015	19	<0.0026U	<0.0024U	-	<0.0021U	<0.0018U	-
Toluene	mg/kg	0.0013	100	<0.0022U	<0.002U	-	<0.0018U	<0.0015U	-
trans-1,2-dichloroethene	mg/kg	0.0019	100	<0.0033U	<0.003U	-	<0.0027U	<0.0023U	-
Vinyl chloride	mg/kg	0.0028	0.9	<0.0047U	<0.0043U	-	<0.0039U	<0.0033U	-
Xylene Total	mg/kg	0.0032	100	0.026	<0.0051U	-	<0.0046U	<0.0038U	-

Notes:

NYSDEC DER-10 App 5 - Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010
Concentrations detected above restricted residentual use for Imported fill or soil are bolded and highlighted in grey
U non detect
J estimated value
J+ estimated value; however value is likely to higher due to higher concentration of the analyte in sample due to positive bias
J- estimated value; however value is likely to lower due to lower concentration of the analyte in sample due to negative bias
UJ non detect; however the reported quantation limit is estimated

TABLE 5
Summary of Analytical Results for Potential Reuse

Former Sperry Remington Site - North Portion
Elmira, New York

				Windrow Between 7-8 Section 4			Windrow Between 2-3 Section 1		
			Sample ID	WB 7-8, S4, A 072417	WB 7-8, S4, B 072417	WB 7-8, S4, C 072417	WB2-3, S1, A 08.01.17	WB2-3, S1, B 08.01.17	WB2-3, S1, C 08.01.17
			Sampled Date	7/24/2017	7/24/2017	7/24/2017	8/1/2017	8/1/2017	8/1/2017
Chemical Group	**Units**	**EQL**	NYSDEC DER-10 App 5						
PCBs									
Arochlor 1016	mg/kg	0.0092		-	-	<0.012U	-	-	<0.0098U
Arochlor 1221	mg/kg	0.009		-	-	<0.012U	-	-	<0.0096U
Arochlor 1232	mg/kg	0.0069		-	-	<0.0091U	-	-	<0.0073U
Arochlor 1242	mg/kg	0.014		-	-	<0.018U	-	-	<0.015U
Arochlor 1248	mg/kg	0.017		-	-	1J	-	-	2.3J
Arochlor 1254	mg/kg	0.017		-	-	0.42J	-	-	1.4J
Arochlor 1260	mg/kg	0.012		-	-	0.04J	-	-	0.2J
Arochlor 1268	mg/kg	0.0053		-	-	<0.007U	-	-	<0.0057U
Arochlor 1262	mg/kg	0.012		-	-	<0.016U	-	-	<0.013U
Total PCBs	mg/kg		1	-	-	**1.497**	-	-	**3.93**
Inorganics									
Arsenic	mg/kg	1	16	-	-	5.9	-	-	6.8
Barium	mg/kg	20	400	-	-	95	-	-	86
Beryllium	mg/kg	0.41	72	-	-	0.34J	-	-	0.4J
Cadmium	mg/kg	0.12	4.3	-	-	0.19J	-	-	0.16J
Chromium (III+VI)	mg/kg	0.51	110	-	-	9.6	-	-	10
Copper	mg/kg	2.5	270	-	-	21	-	-	24
Lead	mg/kg	1	400	-	-	35	-	-	30
Manganese	mg/kg	1.5	2000	-	-	450	-	-	460
Nickel	mg/kg	4.1	310	-	-	17	-	-	20
Selenium	mg/kg	0.4	180	-	-	<0.53U	-	-	<0.43U
Silver	mg/kg	0.17	180	-	-	<0.22U	-	-	<0.18U
Zinc	mg/kg	2	10000	-	-	55	-	-	64
Mercury	mg/kg	0.028	0.81	-	-	0.048	-	-	0.055J+
Cyanide Total	mg/kg	0.14	27	-	-	0.75	-	-	<0.17U
SVOCs									
1,4-Dioxane	mg/kg	0.0053	13	-	-	<0.007U	-	-	<0.0056U
2,4,5-trichlorophenol	mg/kg	0.0034		-	-	<0.0044U	-	-	<0.0035U
2,4,6-trichlorophenol	mg/kg	0.0031		-	-	<0.0041U	-	-	<0.0033U
2,4-Dinitrotoluene	mg/kg	0.0047		-	-	<0.0062U	-	-	<0.0049U
2-methylphenol	mg/kg	0.0031	100	-	-	<0.0041U	-	-	<0.0033U
4-methylphenol	mg/kg	0.0031	100	-	-	0.0074J	-	-	<0.0033U
Acenaphthene	mg/kg	0.0024	100	-	-	0.0089J	-	-	0.018
Acenaphthylene	mg/kg	0.0024	100	-	-	0.052	-	-	0.082
Anthracene	mg/kg	0.0026	100	-	-	0.05	-	-	0.13J
Benz(a)anthracene	mg/kg	0.0071	1	-	-	0.12	-	-	0.38J
Benzo(a) pyrene	mg/kg	0.0071	1	-	-	0.13	-	-	0.38J
Benzo(b)fluoranthene	mg/kg	0.0071	1	-	-	0.17	-	-	0.52J
Benzo(g,h,i)perylene	mg/kg	0.0071	100	-	-	0.14	-	-	0.34J
Benzo(k)fluoranthene	mg/kg	0.0071	3.9	-	-	0.058	-	-	0.16J
Chrysene	mg/kg	0.0071	3.9	-	-	0.13	-	-	0.43J
Dibenz(a,h)anthracene	mg/kg	0.0029	0.33	-	-	0.037	-	-	0.089
Dibenzofuran	mg/kg	0.0028	59	-	-	0.0078J	-	-	0.022J
Fluoranthene	mg/kg	0.0071	100	-	-	0.23	-	-	0.63J
Fluorene	mg/kg	0.0025	100	-	-	0.013	-	-	0.021
Hexachlorobenzene	mg/kg	0.0028	1.2	-	-	<0.0037U	-	-	<0.003U
Hexachlorobutadiene	mg/kg	0.0022		-	-	<0.0029U	-	-	<0.0023U
Hexachloroethane	mg/kg	0.0025		-	-	<0.0033U	-	-	<0.0027U
Indeno(1,2,3-c,d)pyrene	mg/kg	0.0071	0.5	-	-	0.12	-	-	0.31J
Naphthalene	mg/kg	0.0026	100	-	-	0.016	-	-	0.041
Nitrobenzene	mg/kg	0.0027		-	-	<0.0036U	-	-	<0.0028U
Pentachlorophenol	mg/kg	0.067	6.7	-	-	<0.088U	-	-	<0.07U
Phenanthrene	mg/kg	0.0071	100	-	-	0.1	-	-	0.33J
Phenol	mg/kg	0.0048	100	-	-	<0.0063U	-	-	<0.005U
Pyrene	mg/kg	0.0071	100	-	-	0.17	-	-	0.57J
Pyridine	mg/kg	0.0034		-	-	<0.0044U	-	-	<0.0036UJ
VOCs									
1,1,1-trichloroethane	mg/kg	0.0019	100	<0.0032U	<0.0036U	-	<0.0024U	<0.0024U	-
1,1-dichloroethane	mg/kg	0.0014	26	<0.0023U	<0.0026U	-	<0.0017U	<0.0017U	-
1,1-dichloroethene	mg/kg	0.0021	100	<0.0037U	<0.0041U	-	<0.0027U	<0.0027U	-
1,2,4-trimethylbenzene	mg/kg	0.001	52	<0.0017U	<0.002U	-	<0.0013U	<0.0013U	-
1,2-dichlorobenzene	mg/kg	0.003	100	<0.0052U	<0.0058U	-	<0.0038U	<0.0038U	-
1,2-dichloroethane	mg/kg	0.0011	3.1	<0.0019U	<0.0021U	-	<0.0014U	<0.0014U	-
1,3,5-trimethylbenzene	mg/kg	0.0013	52	<0.0022U	<0.0025U	-	<0.0016U	<0.0016U	-
1,3-dichlorobenzene	mg/kg	0.0012	49	<0.0021U	<0.0023U	-	<0.0015U	<0.0015U	-
1,4-dichlorobenzene	mg/kg	0.00077	13	<0.0013U	<0.0015U	-	<0.00096U	<0.00097U	-
Methyl Ethyl Ketone	mg/kg	0.0022	100	<0.0038U	<0.0042U	-	<0.0027U	<0.0028U	-
Acetone	mg/kg	0.0024	100	<0.0041U	<0.0046U	-	<0.003U	<0.003U	-
Benzene	mg/kg	0.0015	4.8	<0.0025U	<0.0028U	-	<0.0019U	<0.0019U	-
Carbon tetrachloride	mg/kg	0.0025	2.4	<0.0043U	<0.0048U	-	<0.0031U	<0.0032U	-
Chlorobenzene	mg/kg	0.0012	100	<0.002U	<0.0023U	-	<0.0015U	<0.0015U	-
Chloroform	mg/kg	0.0016	49	<0.0027U	<0.0031U	-	<0.002U	<0.002U	-
cis-1,2-dichloroethene	mg/kg	0.0012	100	<0.002U	<0.0023U	-	<0.0015U	<0.0015U	-
Dichloromethane	mg/kg	0.0018	100	<0.0031U	<0.0034U	-	<0.0022U	<0.0022U	-
Ethylbenzene	mg/kg	0.0016	41	<0.0028U	<0.0031U	-	<0.002U	<0.0021U	-
Methyl-tert-butyl ether	mg/kg	0.0028	100	<0.0048U	<0.0053U	-	<0.0035U	<0.0035U	-
n-butylbenzene	mg/kg	0.0029	100	<0.0049U	<0.0055U	-	<0.0036U	<0.0036U	-
n-propylbenzene	mg/kg	0.0016	100	<0.0027U	<0.0031U	-	<0.002U	<0.002U	-
sec-butylbenzene	mg/kg	0.0018	100	<0.0032U	<0.0035U	-	<0.0023U	<0.0023U	-
Trichloroethene	mg/kg	0.0011	21	<0.0019U	<0.0022U	-	<0.0014U	<0.0014U	-
tert-butylbenzene	mg/kg	0.0014	100	<0.0024U	<0.0027U	-	<0.0017U	<0.0017U	-
Tetrachloroethene	mg/kg	0.0015	19	<0.0026U	<0.0029U	-	<0.0019U	<0.0019U	-
Toluene	mg/kg	0.0013	100	<0.0022U	<0.0024U	-	<0.0016U	<0.0016U	-
trans-1,2-dichloroethene	mg/kg	0.0019	100	<0.0033U	<0.0037U	-	<0.0024U	<0.0024U	-
Vinyl chloride	mg/kg	0.0028	0.9	<0.0048U	<0.0053U	-	<0.0035U	<0.0035U	-
Xylene Total	mg/kg	0.0032	100	<0.0056U	<0.0063U	-	<0.0041U	<0.0041U	-

Notes:

NYSDEC DER-10 App 5 - Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010
Concentrations detected above restricted residentual use for Imported fill or soil are bolded and highlighted in grey
U non detect
J estimated value
J+ estimated value; however value is likely to higher due to higher concentration of the analyte in sample due to positive bias
J- estimated value; however value is likely to lower due to lower concentration of the analyte in sample due to negative bias
UJ non detect; however the reported quantation limit is estimated

TABLE 5
Summary of Analytical Results for Potential Reuse

Former Sperry Remington Site - North Portion
Elmira, New York

				Windrow Between 2-3 Section 2			Windrow Between 2-3		
			Sample ID	WB2-3, S2, A 08.01.17	WB2-3, S2, B 08.01.17	WB2-3, S2, C 08.01.17	WB2-3, S3, A 08.02.17	WB2-3, S3, B 08.02.17	WB2-3, S3, C 08.02.17
			Sampled Date	8/1/2017	8/1/2017	8/1/2017	8/2/2017	8/2/2017	8/2/2017
Chemical Group	**Units**	**EQL**	NYSDEC DER-10 App 5						
PCBs									
Arochlor 1016	mg/kg	0.0092		-	-	<0.0097U	-	-	<0.0098U
Arochlor 1221	mg/kg	0.009		-	-	<0.0094U	-	-	<0.0095U
Arochlor 1232	mg/kg	0.0069		-	-	<0.0072U	-	-	<0.0073U
Arochlor 1242	mg/kg	0.014		-	-	<0.014U	-	-	<0.015U
Arochlor 1248	mg/kg	0.017		-	-	2.3J	-	-	1.6J
Arochlor 1254	mg/kg	0.017		-	-	1.1J	-	-	1.2J
Arochlor 1260	mg/kg	0.012		-	-	0.32J	-	-	0.19J
Arochlor 1268	mg/kg	0.0053		-	-	<0.0056U	-	-	<0.0056U
Arochlor 1262	mg/kg	0.012		-	-	<0.013U	-	-	<0.013U
Total PCBs	mg/kg		1	-	-	**3.749**	-	-	**3.02**
Inorganics									
Arsenic	mg/kg	1	16	-	-	5.2	-	-	6.8
Barium	mg/kg	20	400	-	-	95	-	-	91
Beryllium	mg/kg	0.41	72	-	-	0.3J	-	-	0.39J
Cadmium	mg/kg	0.12	4.3	-	-	0.16J	-	-	0.17J
Chromium (III+VI)	mg/kg	0.51	110	-	-	9.1	-	-	10
Copper	mg/kg	2.5	270	-	-	32	-	-	36
Lead	mg/kg	1	400	-	-	41	-	-	40
Manganese	mg/kg	1.5	2000	-	-	350	-	-	420
Nickel	mg/kg	4.1	310	-	-	17	-	-	20
Selenium	mg/kg	0.4	180	-	-	<0.45U	-	-	<0.46U
Silver	mg/kg	0.17	180	-	-	<0.19U	-	-	<0.19U
Zinc	mg/kg	2	10000	-	-	83	-	-	66
Mercury	mg/kg	0.028	0.81	-	-	0.042	-	-	0.094
Cyanide Total	mg/kg	0.14	27	-	-	0.26J	-	-	0.21J
SVOCs									
1,4-Dioxane	mg/kg	0.0053	13	-	-	<0.011U	-	-	<0.0055U
2,4,5-trichlorophenol	mg/kg	0.0034		-	-	<0.0069U	-	-	<0.0035U
2,4,6-trichlorophenol	mg/kg	0.0031		-	-	<0.0064U	-	-	<0.0032U
2,4-Dinitrotoluene	mg/kg	0.0047		-	-	<0.0097U	-	-	<0.0049U
2-methylphenol	mg/kg	0.0031	100	-	-	<0.0064U	-	-	<0.0032U
4-methylphenol	mg/kg	0.0031	100	-	-	<0.0065U	-	-	<0.0033U
Acenaphthene	mg/kg	0.0024	100	-	-	0.014J	-	-	0.01
Acenaphthylene	mg/kg	0.0024	100	-	-	0.1	-	-	0.12
Anthracene	mg/kg	0.0026	100	-	-	0.1	-	-	0.097
Benz(a)anthracene	mg/kg	0.0071	1	-	-	0.36	-	-	0.26
Benzo(a) pyrene	mg/kg	0.0071	1	-	-	0.41	-	-	0.25
Benzo(b)fluoranthene	mg/kg	0.0071	1	-	-	0.56	-	-	0.37
Benzo(g,h,i)perylene	mg/kg	0.0071	100	-	-	0.39	-	-	0.28
Benzo(k)fluoranthene	mg/kg	0.0071	3.9	-	-	0.18	-	-	0.11
Chrysene	mg/kg	0.0071	3.9	-	-	0.39	-	-	0.29
Dibenz(a,h)anthracene	mg/kg	0.0029	0.33	-	-	0.096	-	-	0.067
Dibenzofuran	mg/kg	0.0028	59	-	-	0.018J	-	-	0.018J
Fluoranthene	mg/kg	0.0071	100	-	-	0.54	-	-	0.37
Fluorene	mg/kg	0.0025	100	-	-	0.022	-	-	0.016
Hexachlorobenzene	mg/kg	0.0028	1.2	-	-	<0.0059U	-	-	<0.003U
Hexachlorobutadiene	mg/kg	0.0022		-	-	<0.0046U	-	-	<0.0023U
Hexachloroethane	mg/kg	0.0025		-	-	<0.0052U	-	-	<0.0026U
Indeno(1,2,3-c,d)pyrene	mg/kg	0.0071	0.5	-	-	0.35	-	-	0.22
Naphthalene	mg/kg	0.0026	100	-	-	0.059	-	-	0.063
Nitrobenzene	mg/kg	0.0027		-	-	<0.0056U	-	-	<0.0028U
Pentachlorophenol	mg/kg	0.067	6.7	-	-	<0.14U	-	-	<0.07U
Phenanthrene	mg/kg	0.0071	100	-	-	0.19	-	-	0.15
Phenol	mg/kg	0.0048	100	-	-	<0.0099U	-	-	<0.005U
Pyrene	mg/kg	0.0071	100	-	-	0.46	-	-	0.39
Pyridine	mg/kg	0.0034		-	-	<0.007U	-	-	<0.0035U
VOCs									
1,1,1-trichloroethane	mg/kg	0.0019	100	<0.0024U	<0.0025U	-	<0.0021U	<0.0024U	-
1,1-dichloroethane	mg/kg	0.0014	26	<0.0017U	<0.0018U	-	<0.0015U	<0.0017U	-
1,1-dichloroethene	mg/kg	0.0021	100	<0.0027U	<0.0029U	-	<0.0024U	<0.0027U	-
1,2,4-trimethylbenzene	mg/kg	0.001	52	<0.0013U	<0.0014U	-	<0.0011U	<0.0013U	-
1,2-dichlorobenzene	mg/kg	0.003	100	<0.0038U	<0.0041U	-	<0.0034U	<0.0039U	-
1,2-dichloroethane	mg/kg	0.0011	3.1	<0.0014U	<0.0015U	-	<0.0012U	<0.0014U	-
1,3,5-trimethylbenzene	mg/kg	0.0013	52	<0.0016U	<0.0017U	-	<0.0015U	<0.0017U	-
1,3-dichlorobenzene	mg/kg	0.0012	49	<0.0015U	<0.0016U	-	<0.0014U	<0.0015U	-
1,4-dichlorobenzene	mg/kg	0.00077	13	<0.00096U	<0.001U	-	<0.00087U	<0.00098U	-
Methyl Ethyl Ketone	mg/kg	0.0022	100	<0.0027U	<0.0029U	-	<0.0025U	<0.0028U	-
Acetone	mg/kg	0.0024	100	<0.003U	<0.0032U	-	<0.0027U	<0.003U	-
Benzene	mg/kg	0.0015	4.8	<0.0018U	<0.002U	-	<0.0017U	<0.0019U	-
Carbon tetrachloride	mg/kg	0.0025	2.4	<0.0031U	<0.0033U	-	<0.0028U	<0.0032U	-
Chlorobenzene	mg/kg	0.0012	100	<0.0015U	<0.0016U	-	<0.0013U	<0.0015U	-
Chloroform	mg/kg	0.0016	49	<0.002U	<0.0021U	-	<0.0018U	<0.002U	-
cis-1,2-dichloroethene	mg/kg	0.0012	100	<0.0015U	<0.0016U	-	<0.0013U	<0.0015U	-
Dichloromethane	mg/kg	0.0018	100	<0.0022U	<0.0024U	-	<0.002U	<0.0023U	-
Ethylbenzene	mg/kg	0.0016	41	<0.002U	<0.0022U	-	<0.0018U	<0.0021U	-
Methyl-tert-butyl ether	mg/kg	0.0028	100	<0.0035U	<0.0037U	-	<0.0031U	<0.0035U	-
n-butylbenzene	mg/kg	0.0029	100	<0.0036U	<0.0038U	-	<0.0032U	<0.0036U	-
n-propylbenzene	mg/kg	0.0016	100	<0.002U	<0.0021U	-	<0.0018U	<0.002U	-
sec-butylbenzene	mg/kg	0.0018	100	<0.0023U	<0.0025U	-	<0.0021U	<0.0023U	-
Trichloroethene	mg/kg	0.0011	21	<0.0014U	<0.0015U	-	<0.0013U	<0.0014U	-
tert-butylbenzene	mg/kg	0.0014	100	<0.0017U	<0.0018U	-	<0.0016U	<0.0018U	-
Tetrachloroethene	mg/kg	0.0015	19	<0.0019U	<0.002U	-	<0.0017U	<0.0019U	-
Toluene	mg/kg	0.0013	100	<0.0016U	<0.0017U	-	<0.0014U	<0.0016U	-
trans-1,2-dichloroethene	mg/kg	0.0019	100	<0.0024U	<0.0026U	-	<0.0022U	<0.0024U	-
Vinyl chloride	mg/kg	0.0028	0.9	<0.0034U	<0.0037U	-	<0.0031U	<0.0035U	-
Xylene Total	mg/kg	0.0032	100	<0.004U	<0.0043U	-	<0.0037U	<0.0041U	-

Notes:

NYSDEC DER-10 App 5 - Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010
Concentrations detected above restricted residentual use for Imported fill or soil are bolded and highlighted in grey
U non detect
J estimated value
J+ estimated value; however value is likely to higher due to higher concentration of the analyte in sample due to positive bias
J- estimated value; however value is likely to lower due to lower concentration of the analyte in sample due to negative bias
UJ non detect; however the reported quantation limit is estimated

TABLE 5
Summary of Analytical Results for Potential Reuse

Former Sperry Remington Site - North Portion
Elmira, New York

				Windrow Between 3-4 Section 1			Windrow Between 3-4 Section 2		
			Sample ID	WB3-4, S1, A 072817	WB3-4, S1, B 072817	WB3-4, S1, C 072817	WB3-4, S2, A 072817	WB3-4, S2, B 072817	WB3-4, S2, C 072817
			Sampled Date	7/28/2017	7/28/2017	7/28/2017	7/28/2017	7/28/2017	7/28/2017
Chemical Group	**Units**	**EQL**	NYSDEC DER-10 App 5						
PCBs									
Arochlor 1016	mg/kg	0.0092		-	-	<0.0096U	-	-	<0.0096U
Arochlor 1221	mg/kg	0.009		-	-	<0.0094U	-	-	<0.0094U
Arochlor 1232	mg/kg	0.0069		-	-	<0.0072U	-	-	<0.0072U
Arochlor 1242	mg/kg	0.014		-	-	<0.014U	-	-	<0.014U
Arochlor 1248	mg/kg	0.017		-	-	0.78J	-	-	4.4J
Arochlor 1254	mg/kg	0.017		-	-	0.29J	-	-	1.4J
Arochlor 1260	mg/kg	0.012		-	-	0.049J	-	-	0.18J
Arochlor 1268	mg/kg	0.0053		-	-	<0.0055U	-	-	<0.0055U
Arochlor 1262	mg/kg	0.012		-	-	<0.013U	-	-	<0.013U
Total PCBs	mg/kg		1	-	-	**1.148**	-	-	**6.009**
Inorganics									
Arsenic	mg/kg	1	16	-	-	7.8	-	-	7.8
Barium	mg/kg	20	400	-	-	71	-	-	64
Beryllium	mg/kg	0.41	72	-	-	0.33J	-	-	0.33J
Cadmium	mg/kg	0.12	4.3	-	-	0.14J	-	-	0.13J
Chromium (III+VI)	mg/kg	0.51	110	-	-	10	-	-	8.8
Copper	mg/kg	2.5	270	-	-	56J-	-	-	63
Lead	mg/kg	1	400	-	-	55J+	-	-	37
Manganese	mg/kg	1.5	2000	-	-	390	-	-	370
Nickel	mg/kg	4.1	310	-	-	26	-	-	21
Selenium	mg/kg	0.4	180	-	-	0.51J	-	-	<0.45U
Silver	mg/kg	0.17	180	-	-	<0.19U	-	-	<0.19U
Zinc	mg/kg	2	10000	-	-	65	-	-	55
Mercury	mg/kg	0.028	0.81	-	-	0.037J+	-	-	0.029J
Cyanide Total	mg/kg	0.14	27	-	-	1.1	-	-	1.9
SVOCs									
1,4-Dioxane	mg/kg	0.0053	13	-	-	<0.022U	-	-	<0.0056U
2,4,5-trichlorophenol	mg/kg	0.0034		-	-	<0.014U	-	-	<0.0035U
2,4,6-trichlorophenol	mg/kg	0.0031		-	-	<0.013U	-	-	<0.0032U
2,4-Dinitrotoluene	mg/kg	0.0047		-	-	<0.019U	-	-	<0.0049U
2-methylphenol	mg/kg	0.0031	100	-	-	<0.013U	-	-	<0.0033U
4-methylphenol	mg/kg	0.0031	100	-	-	0.025J	-	-	<0.0033U
Acenaphthene	mg/kg	0.0024	100	-	-	0.15J	-	-	0.007J
Acenaphthylene	mg/kg	0.0024	100	-	-	0.82J	-	-	0.033
Anthracene	mg/kg	0.0026	100	-	-	2.6J	-	-	0.043
Benz(a)anthracene	mg/kg	0.0071	1	-	-	**4.9J**	-	-	0.23
Benzo(a) pyrene	mg/kg	0.0071	1	-	-	**3.6J**	-	-	0.23
Benzo(b)fluoranthene	mg/kg	0.0071	1	-	-	**4.8J**	-	-	0.3
Benzo(g,h,i)perylene	mg/kg	0.0071	100	-	-	2.9J	-	-	0.23
Benzo(k)fluoranthene	mg/kg	0.0071	3.9	-	-	1.5J	-	-	0.11
Chrysene	mg/kg	0.0071	3.9	-	-	3.7J	-	-	0.22
Dibenz(a,h)anthracene	mg/kg	0.0029	0.33	-	-	**0.61J**	-	-	0.042
Dibenzofuran	mg/kg	0.0028	59	-	-	0.54J	-	-	0.019J
Fluoranthene	mg/kg	0.0071	100	-	-	8.4J	-	-	0.32
Fluorene	mg/kg	0.0025	100	-	-	0.4J	-	-	0.011
Hexachlorobenzene	mg/kg	0.0028	1.2	-	-	<0.012U	-	-	<0.003U
Hexachlorobutadiene	mg/kg	0.0022		-	-	<0.0091U	-	-	<0.0023U
Hexachloroethane	mg/kg	0.0025		-	-	<0.01U	-	-	<0.0027U
Indeno(1,2,3-c,d)pyrene	mg/kg	0.0071	0.5	-	-	**2.6J**	-	-	0.19
Naphthalene	mg/kg	0.0026	100	-	-	0.73J	-	-	0.049
Nitrobenzene	mg/kg	0.0027		-	-	<0.011U	-	-	<0.0028U
Pentachlorophenol	mg/kg	0.067	6.7	-	-	<0.27U	-	-	<0.07U
Phenanthrene	mg/kg	0.0071	100	-	-	8.3J	-	-	0.15
Phenol	mg/kg	0.0048	100	-	-	0.022J	-	-	<0.005U
Pyrene	mg/kg	0.0071	100	-	-	9.3J	-	-	0.33
Pyridine	mg/kg	0.0034		-	-	<0.014UJ	-	-	<0.0035U
VOCs									
1,1,1-trichloroethane	mg/kg	0.0019	100	<0.0022U	<0.0025U	-	<0.0024U	<0.0021U	-
1,1-dichloroethane	mg/kg	0.0014	26	<0.0016U	<0.0018U	-	<0.0017U	<0.0015U	-
1,1-dichloroethene	mg/kg	0.0021	100	<0.0025U	<0.0029U	-	<0.0027U	<0.0024U	-
1,2,4-trimethylbenzene	mg/kg	0.001	52	<0.0012U	<0.0014U	-	<0.0013U	<0.0011U	-
1,2-dichlorobenzene	mg/kg	0.003	100	<0.0036U	<0.0041U	-	<0.0039U	<0.0033U	-
1,2-dichloroethane	mg/kg	0.0011	3.1	<0.0013U	<0.0015U	-	<0.0014U	<0.0012U	-
1,3,5-trimethylbenzene	mg/kg	0.0013	52	<0.0015U	<0.0017U	-	<0.0016U	<0.0014U	-
1,3-dichlorobenzene	mg/kg	0.0012	49	<0.0014U	<0.0016U	-	<0.0015U	<0.0013U	-
1,4-dichlorobenzene	mg/kg	0.00077	13	<0.00091U	<0.001U	-	<0.00098U	<0.00085U	-
Methyl Ethyl Ketone	mg/kg	0.0022	100	<0.0026U	<0.0029U	-	<0.0028U	<0.0024U	-
Acetone	mg/kg	0.0024	100	<0.0028U	<0.0032U	-	<0.003U	<0.0026U	-
Benzene	mg/kg	0.0015	4.8	<0.0017U	<0.002U	-	<0.0019U	<0.0016U	-
Carbon tetrachloride	mg/kg	0.0025	2.4	<0.003U	<0.0033U	-	<0.0032U	<0.0028U	-
Chlorobenzene	mg/kg	0.0012	100	<0.0014U	<0.0016U	-	<0.0015U	<0.0013U	-
Chloroform	mg/kg	0.0016	49	<0.0019U	<0.0021U	-	<0.002U	<0.0018U	-
cis-1,2-dichloroethene	mg/kg	0.0012	100	<0.0014U	<0.0016U	-	<0.0015U	<0.0013U	-
Dichloromethane	mg/kg	0.0018	100	<0.0021U	<0.0024U	-	<0.0023U	<0.002U	-
Ethylbenzene	mg/kg	0.0016	41	<0.0019U	<0.0022U	-	<0.0021U	<0.0018U	-
Methyl-tert-butyl ether	mg/kg	0.0028	100	<0.0033U	<0.0037U	-	<0.0035U	<0.0031U	-
n-butylbenzene	mg/kg	0.0029	100	<0.0034U	<0.0038U	-	<0.0036U	<0.0031U	-
n-propylbenzene	mg/kg	0.0016	100	<0.0019U	<0.0021U	-	<0.002U	<0.0018U	-
sec-butylbenzene	mg/kg	0.0018	100	<0.0022U	<0.0025U	-	<0.0023U	<0.002U	-
Trichloroethene	mg/kg	0.0011	21	<0.0013U	<0.0015U	-	<0.0014U	<0.0012U	-
tert-butylbenzene	mg/kg	0.0014	100	<0.0016U	<0.0018U	-	<0.0018U	<0.0015U	-
Tetrachloroethene	mg/kg	0.0015	19	<0.0018U	<0.002U	-	<0.0019U	<0.0017U	-
Toluene	mg/kg	0.0013	100	<0.0015U	<0.0017U	-	<0.0016U	<0.0014U	-
trans-1,2-dichloroethene	mg/kg	0.0019	100	<0.0023U	<0.0026U	-	<0.0024U	<0.0021U	-
Vinyl chloride	mg/kg	0.0028	0.9	<0.0033U	<0.0037U	-	<0.0035U	<0.003U	-
Xylene Total	mg/kg	0.0032	100	<0.0038U	<0.0043U	-	<0.0041U	<0.0036U	-

Notes:

NYSDEC DER-10 App 5 - Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010
Concentrations detected above restricted residentual use for Imported fill or soil are bolded and highlighted in grey
U non detect
J estimated value
J+ estimated value; however value is likely to higher due to higher concentration of the analyte in sample due to positive bias
J- estimated value; however value is likely to lower due to lower concentration of the analyte in sample due to negative bias
UJ non detect; however the reported quantation limit is estimated

TABLE 5
Summary of Analytical Results for Potential Reuse

Former Sperry Remington Site - North Portion
Elmira, New York

				Windrow Between 3-4 Section 3			Windrow Between 4-5 Section 2		
			Sample ID	WB3-4, S3, A 072817	WB3-4, S3, B 072817	WB3-4, S3, C 072817	Wb4-5, S2A 82417	Wb4-5, S2B 82417	Wb4-5, S2C 82417
			Sampled Date	7/28/2017	7/28/2017	7/28/2017	8/24/2017	8/24/2017	8/24/2017
Chemical Group	**Units**	**EQL**	NYSDEC DER-10 App 5						
PCBs									
Arochlor 1016	mg/kg	0.0092		-	-	<0.0098U	-	-	<0.0094U
Arochlor 1221	mg/kg	0.009		-	-	<0.0096U	-	-	<0.0092U
Arochlor 1232	mg/kg	0.0069		-	-	<0.0073U	-	-	<0.007U
Arochlor 1242	mg/kg	0.014		-	-	<0.015U	-	-	<0.014U
Arochlor 1248	mg/kg	0.017		-	-	2.4J	-	-	0.12
Arochlor 1254	mg/kg	0.017		-	-	0.84J	-	-	0.032
Arochlor 1260	mg/kg	0.012		-	-	0.099J	-	-	<0.012U
Arochlor 1268	mg/kg	0.0053		-	-	<0.0056U	-	-	<0.0054U
Arochlor 1262	mg/kg	0.012		-	-	<0.013U	-	-	<0.013U
Total PCBs	mg/kg		1	-	-	**3.369**	-	-	0.187
Inorganics									
Arsenic	mg/kg	1	16	-	-	7.1	-	-	5.4
Barium	mg/kg	20	400	-	-	82	-	-	52
Beryllium	mg/kg	0.41	72	-	-	0.37J	-	-	0.28J
Cadmium	mg/kg	0.12	4.3	-	-	<0.13U	-	-	0.16J
Chromium (III+VI)	mg/kg	0.51	110	-	-	9.6	-	-	8.2
Copper	mg/kg	2.5	270	-	-	54	-	-	19
Lead	mg/kg	1	400	-	-	73	-	-	8.3
Manganese	mg/kg	1.5	2000	-	-	410	-	-	410
Nickel	mg/kg	4.1	310	-	-	21	-	-	16
Selenium	mg/kg	0.4	180	-	-	<0.47U	-	-	0.86J
Silver	mg/kg	0.17	180	-	-	<0.2U	-	-	<0.17U
Zinc	mg/kg	2	10000	-	-	62	-	-	72
Mercury	mg/kg	0.028	0.81	-	-	0.027J	-	-	0.016J,F1
Cyanide Total	mg/kg	0.14	27	-	-	1.3	-	-	<0.16U
SVOCs									
1,4-Dioxane	mg/kg	0.0053	13	-	-	<0.0057U	-	-	<0.0054U
2,4,5-trichlorophenol	mg/kg	0.0034		-	-	<0.0036U	-	-	<0.0034U
2,4,6-trichlorophenol	mg/kg	0.0031		-	-	<0.0033U	-	-	<0.0031U
2,4-Dinitrotoluene	mg/kg	0.0047		-	-	<0.005U	-	-	<0.0047U
2-methylphenol	mg/kg	0.0031	100	-	-	<0.0033U	-	-	<0.0031U
4-methylphenol	mg/kg	0.0031	100	-	-	<0.0033U	-	-	0.0097J
Acenaphthene	mg/kg	0.0024	100	-	-	0.0041J	-	-	<0.0024U
Acenaphthylene	mg/kg	0.0024	100	-	-	0.018	-	-	0.0032J
Anthracene	mg/kg	0.0026	100	-	-	0.027	-	-	0.0026J
Benz(a)anthracene	mg/kg	0.0071	1	-	-	0.12	-	-	0.0082
Benzo(a) pyrene	mg/kg	0.0071	1	-	-	0.11	-	-	0.009
Benzo(b)fluoranthene	mg/kg	0.0071	1	-	-	0.18	-	-	0.013
Benzo(g,h,i)perylene	mg/kg	0.0071	100	-	-	0.11	-	-	0.011
Benzo(k)fluoranthene	mg/kg	0.0071	3.9	-	-	0.049	-	-	0.0046J
Chrysene	mg/kg	0.0071	3.9	-	-	0.13	-	-	0.011
Dibenz(a,h)anthracene	mg/kg	0.0029	0.33	-	-	0.024	-	-	<0.0029U
Dibenzofuran	mg/kg	0.0028	59	-	-	0.014J	-	-	<0.0028U
Fluoranthene	mg/kg	0.0071	100	-	-	0.18	-	-	0.015
Fluorene	mg/kg	0.0025	100	-	-	0.0066J	-	-	<0.0025U
Hexachlorobenzene	mg/kg	0.0028	1.2	-	-	<0.003U	-	-	<0.0029U
Hexachlorobutadiene	mg/kg	0.0022		-	-	<0.0024U	-	-	<0.0022U
Hexachloroethane	mg/kg	0.0025		-	-	<0.0027U	-	-	<0.0026U
Indeno(1,2,3-c,d)pyrene	mg/kg	0.0071	0.5	-	-	0.086	-	-	0.0086
Naphthalene	mg/kg	0.0026	100	-	-	0.029	-	-	<0.0026U
Nitrobenzene	mg/kg	0.0027		-	-	<0.0029U	-	-	<0.0027U
Pentachlorophenol	mg/kg	0.067	6.7	-	-	<0.071U	-	-	<0.067U
Phenanthrene	mg/kg	0.0071	100	-	-	0.1	-	-	0.0063J
Phenol	mg/kg	0.0048	100	-	-	<0.0051U	-	-	<0.0048U
Pyrene	mg/kg	0.0071	100	-	-	0.22	-	-	0.013
Pyridine	mg/kg	0.0034		-	-	<0.0036U	-	-	<0.0034U
VOCs									
1,1,1-trichloroethane	mg/kg	0.0019	100	<0.0027U	<0.0022U	-	<0.0033U	<0.0023U	-
1,1-dichloroethane	mg/kg	0.0014	26	<0.0019U	<0.0016U	-	<0.0024U	<0.0016U	-
1,1-dichloroethene	mg/kg	0.0021	100	<0.003U	<0.0025U	-	<0.0038U	<0.0026U	-
1,2,4-trimethylbenzene	mg/kg	0.001	52	<0.0014U	<0.0012U	-	<0.0018U	<0.0012U	-
1,2-dichlorobenzene	mg/kg	0.003	100	<0.0043U	<0.0035U	-	<0.0053U	<0.0036U	-
1,2-dichloroethane	mg/kg	0.0011	3.1	<0.0015U	<0.0013U	-	<0.0019U	<0.0013U	-
1,3,5-trimethylbenzene	mg/kg	0.0013	52	<0.0018U	<0.0015U	-	<0.0023U	<0.0015U	-
1,3-dichlorobenzene	mg/kg	0.0012	49	<0.0017U	<0.0014U	-	<0.0021U	<0.0014U	-
1,4-dichlorobenzene	mg/kg	0.00077	13	<0.0011U	<0.00088U	-	<0.0014U	<0.00092U	-
Methyl Ethyl Ketone	mg/kg	0.0022	100	<0.0031U	<0.0025U	-	<0.0038U	<0.0026U	-
Acetone	mg/kg	0.0024	100	<0.0033U	<0.0027U	-	<0.0042U	<0.0028U	-
Benzene	mg/kg	0.0015	4.8	<0.0021U	<0.0017U	-	<0.0026U	<0.0018U	-
Carbon tetrachloride	mg/kg	0.0025	2.4	<0.0035U	<0.0029U	-	<0.0044U	<0.003U	-
Chlorobenzene	mg/kg	0.0012	100	<0.0017U	<0.0014U	-	<0.0021U	<0.0014U	-
Chloroform	mg/kg	0.0016	49	<0.0022U	<0.0018U	-	<0.0028U	<0.0019U	-
cis-1,2-dichloroethene	mg/kg	0.0012	100	<0.0017U	<0.0014U	-	<0.0021U	<0.0014U	-
Dichloromethane	mg/kg	0.0018	100	<0.0025U	<0.002U	-	<0.0031U	<0.0021U	-
Ethylbenzene	mg/kg	0.0016	41	<0.0023U	<0.0019U	-	<0.0029U	<0.0019U	-
Methyl-tert-butyl ether	mg/kg	0.0028	100	<0.0039U	<0.0032U	-	<0.0049U	<0.0033U	-
n-butylbenzene	mg/kg	0.0029	100	<0.004U	<0.0033U	-	<0.005U	<0.0034U	-
n-propylbenzene	mg/kg	0.0016	100	<0.0022U	<0.0018U	-	<0.0028U	<0.0019U	-
sec-butylbenzene	mg/kg	0.0018	100	<0.0026U	<0.0021U	-	<0.0032U	<0.0022U	-
Trichloroethene	mg/kg	0.0011	21	<0.0016U	<0.0013U	-	<0.002U	<0.0014U	-
tert-butylbenzene	mg/kg	0.0014	100	<0.0019U	<0.0016U	-	<0.0024U	<0.0016U	-
Tetrachloroethene	mg/kg	0.0015	19	<0.0021U	<0.0017U	-	<0.0027U	<0.0018U	-
Toluene	mg/kg	0.0013	100	<0.0018U	<0.0015U	-	<0.0022U	<0.0015U	-
trans-1,2-dichloroethene	mg/kg	0.0019	100	<0.0027U	<0.0022U	-	<0.0034U	<0.0023U	-
Vinyl chloride	mg/kg	0.0028	0.9	<0.0039U	<0.0032U	-	<0.0049U	<0.0033U	-
Xylene Total	mg/kg	0.0032	100	<0.0046U	<0.0037U	-	<0.0057U	<0.0039U	-

Notes:

NYSDEC DER-10 App 5 - Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010
Concentrations detected above restricted residentual use for Imported fill or soil are bolded and highlighted in grey
U non detect
J estimated value
J+ estimated value; however value is likely to higher due to higher concentration of the analyte in sample due to positive bias
J- estimated value; however value is likely to lower due to lower concentration of the analyte in sample due to negative bias
UJ non detect; however the reported quantation limit is estimated

TABLE 5
Summary of Analytical Results for Potential Reuse

Former Sperry Remington Site - North Portion
Elmira, New York

				Windrow 5-6 Section 2 (2)			Windrow Between 5-6 Section 3 (2)	
			Sample ID	Wb5-6, S2A 82417	Wb5-6, S2B 82417	Wb5-6, S2C 82417	Wb5-6, S3A, 82517	Wb5-6, S3C, 82517
			Sampled Date	8/24/2017	8/24/2017	8/24/2017	8/25/2017	8/25/2017
Chemical Group	**Units**	**EQL**	NYSDEC DER-10 App 5					
PCBs								
Arochlor 1016	mg/kg	0.0092		-	-	<0.0094U	-	<0.01U
Arochlor 1221	mg/kg	0.009		-	-	<0.0092U	-	<0.0098U
Arochlor 1232	mg/kg	0.0069		-	-	<0.007U	-	<0.0075U
Arochlor 1242	mg/kg	0.014		-	-	<0.014U	-	<0.015U
Arochlor 1248	mg/kg	0.017		-	-	0.14	-	2.1J
Arochlor 1254	mg/kg	0.017		-	-	0.041	-	0.99J
Arochlor 1260	mg/kg	0.012		-	-	<0.012U	-	0.13J
Arochlor 1268	mg/kg	0.0053		-	-	<0.0054U	-	<0.0058U
Arochlor 1262	mg/kg	0.012		-	-	<0.013U	-	<0.014U
Total PCBs	mg/kg		1	-	-	0.216	-	**3.251**
Inorganics								
Arsenic	mg/kg	1	16	-	-	3.9	-	6
Barium	mg/kg	20	400	-	-	51	-	94
Beryllium	mg/kg	0.41	72	-	-	0.24J	-	0.41J
Cadmium	mg/kg	0.12	4.3	-	-	0.19J	-	0.17J
Chromium (III+VI)	mg/kg	0.51	110	-	-	8.8	-	12
Copper	mg/kg	2.5	270	-	-	21	-	26
Lead	mg/kg	1	400	-	-	24	-	30
Manganese	mg/kg	1.5	2000	-	-	480	-	400
Nickel	mg/kg	4.1	310	-	-	18	-	56
Selenium	mg/kg	0.4	180	-	-	<0.4U	-	<0.47U
Silver	mg/kg	0.17	180	-	-	<0.17U	-	<0.2U
Zinc	mg/kg	2	10000	-	-	63	-	70
Mercury	mg/kg	0.028	0.81	-	-	0.015J	-	0.084
Cyanide Total	mg/kg	0.14	27	-	-	<0.15U	-	0.22J
SVOCs								
1,4-Dioxane	mg/kg	0.0053	13	-	-	<0.0054U	-	<0.022U
2,4,5-trichlorophenol	mg/kg	0.0034		-	-	<0.0034U	-	<0.014U
2,4,6-trichlorophenol	mg/kg	0.0031		-	-	<0.0031U	-	<0.013U
2,4-Dinitrotoluene	mg/kg	0.0047		-	-	<0.0047U	-	<0.02U
2-methylphenol	mg/kg	0.0031	100	-	-	<0.0032U	-	<0.013U
4-methylphenol	mg/kg	0.0031	100	-	-	0.0091J	-	0.017J
Acenaphthene	mg/kg	0.0024	100	-	-	<0.0024U	-	<0.01U
Acenaphthylene	mg/kg	0.0024	100	-	-	<0.0024U	-	0.037
Anthracene	mg/kg	0.0026	100	-	-	<0.0026U	-	0.023J
Benz(a)anthracene	mg/kg	0.0071	1	-	-	0.0058J	-	0.057
Benzo(a) pyrene	mg/kg	0.0071	1	-	-	0.0059J	-	0.061
Benzo(b)fluoranthene	mg/kg	0.0071	1	-	-	0.0089	-	0.082
Benzo(g,h,i)perylene	mg/kg	0.0071	100	-	-	0.0071J	-	0.077
Benzo(k)fluoranthene	mg/kg	0.0071	3.9	-	-	0.0032J	-	0.031
Chrysene	mg/kg	0.0071	3.9	-	-	0.0083	-	0.069
Dibenz(a,h)anthracene	mg/kg	0.0029	0.33	-	-	<0.003U	-	0.017J
Dibenzofuran	mg/kg	0.0028	59	-	-	<0.0029U	-	<0.012U
Fluoranthene	mg/kg	0.0071	100	-	-	0.01	-	0.096
Fluorene	mg/kg	0.0025	100	-	-	<0.0025U	-	<0.011U
Hexachlorobenzene	mg/kg	0.0028	1.2	-	-	<0.0029U	-	<0.012U
Hexachlorobutadiene	mg/kg	0.0022		-	-	<0.0022U	-	<0.0093U
Hexachloroethane	mg/kg	0.0025		-	-	<0.0026U	-	<0.011U
Indeno(1,2,3-c,d)pyrene	mg/kg	0.0071	0.5	-	-	0.0059J	-	0.061
Naphthalene	mg/kg	0.0026	100	-	-	<0.0026U	-	0.033
Nitrobenzene	mg/kg	0.0027		-	-	<0.0027U	-	<0.011U
Pentachlorophenol	mg/kg	0.067	6.7	-	-	<0.067U	-	<0.28U
Phenanthrene	mg/kg	0.0071	100	-	-	0.0055J	-	0.048
Phenol	mg/kg	0.0048	100	-	-	<0.0048U	-	<0.02U
Pyrene	mg/kg	0.0071	100	-	-	0.0088	-	0.087
Pyridine	mg/kg	0.0034		-	-	<0.0034U	-	<0.014U
VOCs								
1,1,1-trichloroethane	mg/kg	0.0019	100	<0.0033U	<0.0022U	-	<0.0025U	-
1,1-dichloroethane	mg/kg	0.0014	26	<0.0024U	<0.0016U	-	<0.0018U	-
1,1-dichloroethene	mg/kg	0.0021	100	<0.0037U	<0.0025U	-	<0.0028U	-
1,2,4-trimethylbenzene	mg/kg	0.001	52	<0.0018U	<0.0012U	-	<0.0013U	-
1,2-dichlorobenzene	mg/kg	0.003	100	<0.0052U	<0.0035U	-	<0.004U	-
1,2-dichloroethane	mg/kg	0.0011	3.1	<0.0019U	<0.0013U	-	<0.0014U	-
1,3,5-trimethylbenzene	mg/kg	0.0013	52	<0.0022U	<0.0015U	-	<0.0017U	-
1,3-dichlorobenzene	mg/kg	0.0012	49	<0.0021U	<0.0014U	-	<0.0016U	-
1,4-dichlorobenzene	mg/kg	0.00077	13	<0.0013U	<0.00089U	-	<0.001U	-
Methyl Ethyl Ketone	mg/kg	0.0022	100	<0.0038U	<0.0025U	-	<0.0028U	-
Acetone	mg/kg	0.0024	100	<0.0041U	0.0028J	-	<0.0031U	-
Benzene	mg/kg	0.0015	4.8	<0.0025U	<0.0017U	-	<0.0019U	-
Carbon tetrachloride	mg/kg	0.0025	2.4	<0.0043U	<0.0029U	-	<0.0033U	-
Chlorobenzene	mg/kg	0.0012	100	<0.002U	<0.0014U	-	<0.0015U	-
Chloroform	mg/kg	0.0016	49	<0.0027U	<0.0018U	-	<0.0021U	-
cis-1,2-dichloroethene	mg/kg	0.0012	100	<0.002U	<0.0014U	-	<0.0015U	-
Dichloromethane	mg/kg	0.0018	100	<0.0031U	<0.002U	-	<0.0023U	-
Ethylbenzene	mg/kg	0.0016	41	<0.0028U	<0.0019U	-	<0.0021U	-
Methyl-tert-butyl ether	mg/kg	0.0028	100	<0.0048U	<0.0032U	-	<0.0036U	-
n-butylbenzene	mg/kg	0.0029	100	<0.0049U	<0.0033U	-	<0.0037U	-
n-propylbenzene	mg/kg	0.0016	100	<0.0027U	<0.0018U	-	<0.0021U	-
sec-butylbenzene	mg/kg	0.0018	100	<0.0032U	<0.0021U	-	<0.0024U	-
Trichloroethene	mg/kg	0.0011	21	<0.002U	<0.0013U	-	<0.0015U	-
tert-butylbenzene	mg/kg	0.0014	100	<0.0024U	<0.0016U	-	<0.0018U	-
Tetrachloroethene	mg/kg	0.0015	19	<0.0026U	<0.0017U	-	<0.002U	-
Toluene	mg/kg	0.0013	100	<0.0022U	<0.0015U	-	<0.0017U	-
trans-1,2-dichloroethene	mg/kg	0.0019	100	<0.0033U	<0.0022U	-	<0.0025U	-
Vinyl chloride	mg/kg	0.0028	0.9	<0.0048U	<0.0032U	-	<0.0036U	-
Xylene Total	mg/kg	0.0032	100	<0.0056U	<0.0037U	-	<0.0042U	-

Notes:

NYSDEC DER-10 App 5 - Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010
Concentrations detected above restricted residentual use for Imported fill or soil are bolded and highlighted in grey
U non detect
J estimated value
J+ estimated value; however value is likely to higher due to higher concentration of the analyte in sample due to positive bias
J- estimated value; however value is likely to lower due to lower concentration of the analyte in sample due to negative bias
UJ non detect; however the reported quantation limit is estimated

TABLE 5
Summary of Analytical Results for Potential Reuse

Former Sperry Remington Site - North Portion
Elmira, New York

				Windrow Between 6-7 Section 1			Windrow Between 6-7 Section 2		
			Sample ID	WB6-7, S1, A 72517	WB6-7, S1, B 72517	WB6-7, S1, C 72517	WB6-7, S2, A 72517	WB6-7, S2, B 72517	WB6-7, S2, C 72517
			Sampled Date	7/25/2017	7/25/2017	7/25/2017	7/25/2017	7/25/2017	7/25/2017
Chemical Group	**Units**	**EQL**	NYSDEC DER-10 App 5						
PCBs									
Arochlor 1016	mg/kg	0.0092		-	-	<0.011U	-	-	<0.011U
Arochlor 1221	mg/kg	0.009		-	-	<0.011U	-	-	<0.011U
Arochlor 1232	mg/kg	0.0069		-	-	<0.0085U	-	-	<0.0081U
Arochlor 1242	mg/kg	0.014		-	-	<0.017U	-	-	<0.016U
Arochlor 1248	mg/kg	0.017		-	-	0.78J	-	-	0.98J
Arochlor 1254	mg/kg	0.017		-	-	0.29J	-	-	0.43J
Arochlor 1260	mg/kg	0.012		-	-	0.041J	-	-	0.059J
Arochlor 1268	mg/kg	0.0053		-	-	<0.0066U	-	-	<0.0062U
Arochlor 1262	mg/kg	0.012		-	-	<0.015U	-	-	<0.015U
Total PCBs	mg/kg		1	-	-	**1.146**	-	-	**1.503**
Inorganics									
Arsenic	mg/kg	1	16	-	-	4.7	-	-	7.1
Barium	mg/kg	20	400	-	-	72	-	-	68
Beryllium	mg/kg	0.41	72	-	-	0.27J	-	-	0.31J
Cadmium	mg/kg	0.12	4.3	-	-	0.21J	-	-	0.16J
Chromium (III+VI)	mg/kg	0.51	110	-	-	8.2	-	-	10
Copper	mg/kg	2.5	270	-	-	23	-	-	35
Lead	mg/kg	1	400	-	-	23	-	-	28
Manganese	mg/kg	1.5	2000	-	-	400	-	-	400
Nickel	mg/kg	4.1	310	-	-	16	-	-	18
Selenium	mg/kg	0.4	180	-	-	<0.51U	-	-	<0.48U
Silver	mg/kg	0.17	180	-	-	<0.21U	-	-	<0.2U
Zinc	mg/kg	2	10000	-	-	53	-	-	55
Mercury	mg/kg	0.028	0.81	-	-	0.035J	-	-	0.033J
Cyanide Total	mg/kg	0.14	27	-	-	0.47J	-	-	0.29J
SVOCs									
1,4-Dioxane	mg/kg	0.0053	13	-	-	<0.0065U	-	-	<0.0061U
2,4,5-trichlorophenol	mg/kg	0.0034		-	-	<0.0041U	-	-	<0.0039U
2,4,6-trichlorophenol	mg/kg	0.0031		-	-	<0.0038U	-	-	<0.0036U
2,4-Dinitrotoluene	mg/kg	0.0047		-	-	<0.0057U	-	-	<0.0054U
2-methylphenol	mg/kg	0.0031	100	-	-	<0.0038U	-	-	<0.0036U
4-methylphenol	mg/kg	0.0031	100	-	-	0.0091J	-	-	0.0055J
Acenaphthene	mg/kg	0.0024	100	-	-	0.0044J	-	-	0.032
Acenaphthylene	mg/kg	0.0024	100	-	-	0.04	-	-	0.042
Anthracene	mg/kg	0.0026	100	-	-	0.035	-	-	0.1
Benz(a)anthracene	mg/kg	0.0071	1	-	-	0.12	-	-	0.24
Benzo(a) pyrene	mg/kg	0.0071	1	-	-	0.13	-	-	0.23
Benzo(b)fluoranthene	mg/kg	0.0071	1	-	-	0.18	-	-	0.28
Benzo(g,h,i)perylene	mg/kg	0.0071	100	-	-	0.15	-	-	0.24
Benzo(k)fluoranthene	mg/kg	0.0071	3.9	-	-	0.067	-	-	0.12
Chrysene	mg/kg	0.0071	3.9	-	-	0.15	-	-	0.27
Dibenz(a,h)anthracene	mg/kg	0.0029	0.33	-	-	0.032	-	-	0.054
Dibenzofuran	mg/kg	0.0028	59	-	-	0.0078J	-	-	0.023J
Fluoranthene	mg/kg	0.0071	100	-	-	0.21	-	-	0.51
Fluorene	mg/kg	0.0025	100	-	-	0.0081J	-	-	0.032
Hexachlorobenzene	mg/kg	0.0028	1.2	-	-	<0.0035U	-	-	<0.0033U
Hexachlorobutadiene	mg/kg	0.0022		-	-	<0.0027U	-	-	<0.0026U
Hexachloroethane	mg/kg	0.0025		-	-	<0.0031U	-	-	<0.0029U
Indeno(1,2,3-c,d)pyrene	mg/kg	0.0071	0.5	-	-	0.12	-	-	0.2
Naphthalene	mg/kg	0.0026	100	-	-	0.018	-	-	0.028
Nitrobenzene	mg/kg	0.0027		-	-	<0.0033U	-	-	<0.0031U
Pentachlorophenol	mg/kg	0.067	6.7	-	-	<0.082U	-	-	<0.077U
Phenanthrene	mg/kg	0.0071	100	-	-	0.075	-	-	0.31
Phenol	mg/kg	0.0048	100	-	-	<0.0058U	-	-	<0.0055U
Pyrene	mg/kg	0.0071	100	-	-	0.16	-	-	0.38
Pyridine	mg/kg	0.0034		-	-	<0.0041U	-	-	<0.0039U
VOCs									
1,1,1-trichloroethane	mg/kg	0.0019	100	<0.0033U	<0.0036U	-	<0.0026U	<0.002U	-
1,1-dichloroethane	mg/kg	0.0014	26	<0.0024U	<0.0026U	-	<0.0019U	<0.0014U	-
1,1-dichloroethene	mg/kg	0.0021	100	<0.0037U	<0.0041U	-	<0.003U	<0.0023U	-
1,2,4-trimethylbenzene	mg/kg	0.001	52	<0.0018U	<0.0019U	-	<0.0014U	<0.0011U	-
1,2-dichlorobenzene	mg/kg	0.003	100	<0.0053U	<0.0057U	-	<0.0042U	<0.0032U	-
1,2-dichloroethane	mg/kg	0.0011	3.1	<0.0019U	<0.0021U	-	<0.0015U	<0.0011U	-
1,3,5-trimethylbenzene	mg/kg	0.0013	52	<0.0023U	<0.0025U	-	<0.0018U	<0.0014U	-
1,3-dichlorobenzene	mg/kg	0.0012	49	<0.0021U	<0.0023U	-	<0.0017U	<0.0013U	-
1,4-dichlorobenzene	mg/kg	0.00077	13	<0.0013U	<0.0015U	-	<0.0011U	<0.00081U	-
Methyl Ethyl Ketone	mg/kg	0.0022	100	<0.0038U	<0.0041U	-	<0.0031U	<0.0023U	-
Acetone	mg/kg	0.0024	100	<0.0041U	<0.0045U	-	<0.0033U	<0.0025U	-
Benzene	mg/kg	0.0015	4.8	<0.0026U	<0.0028U	-	<0.0021U	<0.0016U	-
Carbon tetrachloride	mg/kg	0.0025	2.4	<0.0043U	<0.0047U	-	<0.0035U	<0.0026U	-
Chlorobenzene	mg/kg	0.0012	100	<0.0021U	<0.0022U	-	<0.0017U	<0.0012U	-
Chloroform	mg/kg	0.0016	49	<0.0028U	<0.003U	-	<0.0022U	<0.0017U	-
cis-1,2-dichloroethene	mg/kg	0.0012	100	<0.0021U	<0.0022U	-	<0.0017U	<0.0012U	-
Dichloromethane	mg/kg	0.0018	100	<0.0031U	<0.0034U	-	<0.0025U	<0.0019U	-
Ethylbenzene	mg/kg	0.0016	41	<0.0028U	<0.0031U	-	<0.0023U	<0.0017U	-
Methyl-tert-butyl ether	mg/kg	0.0028	100	<0.0048U	<0.0053U	-	<0.0039U	<0.0029U	-
n-butylbenzene	mg/kg	0.0029	100	<0.005U	<0.0054U	-	<0.004U	<0.003U	-
n-propylbenzene	mg/kg	0.0016	100	<0.0028U	<0.003U	-	<0.0022U	<0.0017U	-
sec-butylbenzene	mg/kg	0.0018	100	<0.0032U	<0.0035U	-	<0.0026U	<0.0019U	-
Trichloroethene	mg/kg	0.0011	21	<0.002U	<0.0021U	-	<0.0016U	<0.0012U	-
tert-butylbenzene	mg/kg	0.0014	100	<0.0024U	<0.0026U	-	<0.0019U	<0.0014U	-
Tetrachloroethene	mg/kg	0.0015	19	<0.0026U	<0.0029U	-	<0.0021U	<0.0016U	-
Toluene	mg/kg	0.0013	100	<0.0022U	<0.0024U	-	<0.0018U	<0.0013U	-
trans-1,2-dichloroethene	mg/kg	0.0019	100	<0.0033U	<0.0036U	-	<0.0027U	<0.002U	-
Vinyl chloride	mg/kg	0.0028	0.9	<0.0048U	<0.0052U	-	<0.0039U	<0.0029U	-
Xylene Total	mg/kg	0.0032	100	<0.0056U	<0.0062U	-	<0.0045U	<0.0034U	-

Notes:

NYSDEC DER-10 App 5 - Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010
Concentrations detected above restricted residentual use for Imported fill or soil are bolded and highlighted in grey
U non detect
J estimated value
J+ estimated value; however value is likely to higher due to higher concentration of the analyte in sample due to positive bias
J- estimated value; however value is likely to lower due to lower concentration of the analyte in sample due to negative bias
UJ non detect; however the reported quantation limit is estimated

TABLE 5
Summary of Analytical Results for Potential Reuse

Former Sperry Remington Site - North Portion
Elmira, New York

				Windrow Between 6-7 Section 3			Windrow Between 6-7 Section 4		
			Sample ID	WB6-7, S3, A 072617	WB6-7, S3, B 072617	WB6-7, S3, C 072617	WB6-7, S4, A 072617	WB6-7, S4, B 072617	WB6-7, S4, C 072617
			Sampled Date	7/26/2017	7/26/2017	7/26/2017	7/26/2017	7/26/2017	7/26/2017
Chemical Group	**Units**	**EQL**	NYSDEC DER-10 App 5						
PCBs									
Arochlor 1016	mg/kg	0.0092		-	-	<0.01U	-	-	<0.01U
Arochlor 1221	mg/kg	0.009		-	-	<0.01U	-	-	<0.0098U
Arochlor 1232	mg/kg	0.0069		-	-	<0.0077U	-	-	<0.0075U
Arochlor 1242	mg/kg	0.014		-	-	<0.015U	-	-	<0.015U
Arochlor 1248	mg/kg	0.017		-	-	0.4J	-	-	0.76J
Arochlor 1254	mg/kg	0.017		-	-	0.19J	-	-	0.34J
Arochlor 1260	mg/kg	0.012		-	-	0.041J	-	-	0.068J
Arochlor 1268	mg/kg	0.0053		-	-	<0.0059U	-	-	<0.0058U
Arochlor 1262	mg/kg	0.012		-	-	<0.014U	-	-	<0.014U
Total PCBs	mg/kg		1	-	-	0.6623	-	-	**1.199**
Inorganics									
Arsenic	mg/kg	1	16	-	-	5.8	-	-	7.2
Barium	mg/kg	20	400	-	-	100	-	-	160
Beryllium	mg/kg	0.41	72	-	-	0.34J	-	-	0.35J
Cadmium	mg/kg	0.12	4.3	-	-	0.2J	-	-	0.19J
Chromium (III+VI)	mg/kg	0.51	110	-	-	11	-	-	15
Copper	mg/kg	2.5	270	-	-	49	-	-	120
Lead	mg/kg	1	400	-	-	64	-	-	110
Manganese	mg/kg	1.5	2000	-	-	390	-	-	390
Nickel	mg/kg	4.1	310	-	-	24	-	-	46
Selenium	mg/kg	0.4	180	-	-	<0.49U	-	-	0.88J
Silver	mg/kg	0.17	180	-	-	<0.21U	-	-	<0.18U
Zinc	mg/kg	2	10000	-	-	68	-	-	90
Mercury	mg/kg	0.028	0.81	-	-	0.035J	-	-	0.058
Cyanide Total	mg/kg	0.14	27	-	-	0.37J	-	-	0.48J
SVOCs									
1,4-Dioxane	mg/kg	0.0053	13	-	-	<0.0058U	-	-	<0.0057U
2,4,5-trichlorophenol	mg/kg	0.0034		-	-	<0.0037U	-	-	<0.0036U
2,4,6-trichlorophenol	mg/kg	0.0031		-	-	<0.0034U	-	-	<0.0033U
2,4-Dinitrotoluene	mg/kg	0.0047		-	-	<0.0051U	-	-	<0.005U
2-methylphenol	mg/kg	0.0031	100	-	-	<0.0034U	-	-	<0.0033U
4-methylphenol	mg/kg	0.0031	100	-	-	<0.0034U	-	-	0.0062J
Acenaphthene	mg/kg	0.0024	100	-	-	0.027	-	-	0.026
Acenaphthylene	mg/kg	0.0024	100	-	-	0.04	-	-	0.032
Anthracene	mg/kg	0.0026	100	-	-	0.082	-	-	0.1
Benz(a)anthracene	mg/kg	0.0071	1	-	-	0.27	-	-	0.22
Benzo(a) pyrene	mg/kg	0.0071	1	-	-	0.27	-	-	0.2
Benzo(b)fluoranthene	mg/kg	0.0071	1	-	-	0.34	-	-	0.23
Benzo(g,h,i)perylene	mg/kg	0.0071	100	-	-	0.26	-	-	0.22
Benzo(k)fluoranthene	mg/kg	0.0071	3.9	-	-	0.14	-	-	0.12
Chrysene	mg/kg	0.0071	3.9	-	-	0.31	-	-	0.24
Dibenz(a,h)anthracene	mg/kg	0.0029	0.33	-	-	0.057	-	-	0.05
Dibenzofuran	mg/kg	0.0028	59	-	-	0.02J	-	-	0.048
Fluoranthene	mg/kg	0.0071	100	-	-	0.5	-	-	0.48
Fluorene	mg/kg	0.0025	100	-	-	0.029	-	-	0.043
Hexachlorobenzene	mg/kg	0.0028	1.2	-	-	<0.0031U	-	-	<0.003U
Hexachlorobutadiene	mg/kg	0.0022		-	-	<0.0024U	-	-	<0.0024U
Hexachloroethane	mg/kg	0.0025		-	-	<0.0028U	-	-	<0.0027U
Indeno(1,2,3-c,d)pyrene	mg/kg	0.0071	0.5	-	-	0.22	-	-	0.18
Naphthalene	mg/kg	0.0026	100	-	-	0.023	-	-	0.04
Nitrobenzene	mg/kg	0.0027		-	-	<0.003U	-	-	<0.0029U
Pentachlorophenol	mg/kg	0.067	6.7	-	-	<0.073U	-	-	<0.071U
Phenanthrene	mg/kg	0.0071	100	-	-	0.23	-	-	0.25
Phenol	mg/kg	0.0048	100	-	-	<0.0052U	-	-	<0.0051U
Pyrene	mg/kg	0.0071	100	-	-	0.4	-	-	0.38
Pyridine	mg/kg	0.0034		-	-	<0.0037U	-	-	<0.0036U
VOCs									
1,1,1-trichloroethane	mg/kg	0.0019	100	<0.0019U	<0.0025U	-	<0.002U	<0.0021U	-
1,1-dichloroethane	mg/kg	0.0014	26	<0.0014U	<0.0018U	-	<0.0015U	<0.0015U	-
1,1-dichloroethene	mg/kg	0.0021	100	<0.0022U	<0.0029U	-	<0.0023U	<0.0023U	-
1,2,4-trimethylbenzene	mg/kg	0.001	52	<0.001U	<0.0014U	-	<0.0011U	<0.0011U	-
1,2-dichlorobenzene	mg/kg	0.003	100	<0.0031U	<0.004U	-	<0.0032U	<0.0033U	-
1,2-dichloroethane	mg/kg	0.0011	3.1	<0.0011U	<0.0015U	-	<0.0012U	<0.0012U	-
1,3,5-trimethylbenzene	mg/kg	0.0013	52	<0.0013U	<0.0017U	-	<0.0014U	<0.0014U	-
1,3-dichlorobenzene	mg/kg	0.0012	49	<0.0012U	<0.0016U	-	<0.0013U	<0.0013U	-
1,4-dichlorobenzene	mg/kg	0.00077	13	<0.00079U	<0.001U	-	<0.00082U	<0.00083U	-
Methyl Ethyl Ketone	mg/kg	0.0022	100	<0.0022U	<0.0029U	-	<0.0023U	<0.0024U	-
Acetone	mg/kg	0.0024	100	<0.0024U	<0.0032U	-	<0.016U	<0.016U	-
Benzene	mg/kg	0.0015	4.8	<0.0015U	<0.002U	-	<0.0016U	<0.0016U	-
Carbon tetrachloride	mg/kg	0.0025	2.4	<0.0026U	<0.0033U	-	<0.0027U	<0.0027U	-
Chlorobenzene	mg/kg	0.0012	100	<0.0012U	<0.0016U	-	<0.0013U	<0.0013U	-
Chloroform	mg/kg	0.0016	49	<0.0016U	<0.0021U	-	<0.0017U	<0.0017U	-
cis-1,2-dichloroethene	mg/kg	0.0012	100	<0.0012U	<0.0016U	-	<0.0013U	<0.0013U	-
Dichloromethane	mg/kg	0.0018	100	<0.0018U	<0.0024U	-	<0.0019U	<0.0019U	-
Ethylbenzene	mg/kg	0.0016	41	<0.0017U	<0.0022U	-	<0.0017U	<0.0018U	-
Methyl-tert-butyl ether	mg/kg	0.0028	100	<0.0028U	<0.0037U	-	<0.003U	<0.003U	-
n-butylbenzene	mg/kg	0.0029	100	<0.0029U	<0.0038U	-	<0.003U	<0.0031U	-
n-propylbenzene	mg/kg	0.0016	100	<0.0016U	<0.0021U	-	<0.0017U	<0.0017U	-
sec-butylbenzene	mg/kg	0.0018	100	<0.0019U	<0.0024U	-	<0.002U	<0.002U	-
Trichloroethene	mg/kg	0.0011	21	<0.0012U	<0.0015U	-	0.0014J	<0.0012U	-
tert-butylbenzene	mg/kg	0.0014	100	<0.0014U	<0.0018U	-	<0.0015U	<0.0015U	-
Tetrachloroethene	mg/kg	0.0015	19	<0.0015U	<0.002U	-	<0.0016U	<0.0016U	-
Toluene	mg/kg	0.0013	100	<0.0013U	<0.0017U	-	<0.0014U	<0.0014U	-
trans-1,2-dichloroethene	mg/kg	0.0019	100	<0.002U	<0.0025U	-	<0.002U	<0.0021U	-
Vinyl chloride	mg/kg	0.0028	0.9	<0.0028U	<0.0037U	-	<0.003U	<0.003U	-
Xylene Total	mg/kg	0.0032	100	<0.0033U	<0.0043U	-	<0.0035U	<0.0035U	-

Notes:

NYSDEC DER-10 App 5 - Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010
Concentrations detected above restricted residentual use for Imported fill or soil are bolded and highlighted in grey
U non detect
J estimated value
J+ estimated value; however value is likely to higher due to higher concentration of the analyte in sample due to positive bias
J- estimated value; however value is likely to lower due to lower concentration of the analyte in sample due to negative bias
UJ non detect; however the reported quantation limit is estimated

TABLE 5
Summary of Analytical Results for Potential Reuse

Former Sperry Remington Site - North Portion
Elmira, New York

				Windrow Between 7-8 Section 5			Windrow 1-b Section 1 (Segregated for off-Site Disposal)		
			Sample ID	WB7-8, S5, A 72517	WB7-8, S5, B 72517	WB7-8, S5, C 72517	W1-b, S1, A 073117	W1-b, S1, B 073117	W1-b, S1, C 073117
			Sampled Date	7/25/2017	7/25/2017	7/25/2017	7/31/2017	7/31/2017	7/31/2017
Chemical Group	**Units**	**EQL**	NYSDEC DER-10 App 5						
PCBs									
Arochlor 1016	mg/kg	0.0092		-	-	<0.012U	-	-	<0.05U
Arochlor 1221	mg/kg	0.009		-	-	<0.011U	-	-	<0.049U
Arochlor 1232	mg/kg	0.0069		-	-	<0.0088U	-	-	<0.037U
Arochlor 1242	mg/kg	0.014		-	-	<0.018U	-	-	<0.075U
Arochlor 1248	mg/kg	0.017		-	-	0.87J	-	-	9.1J
Arochlor 1254	mg/kg	0.017		-	-	0.36J	-	-	4.7J
Arochlor 1260	mg/kg	0.012		-	-	0.038J	-	-	0.96J
Arochlor 1268	mg/kg	0.0053		-	-	<0.0067U	-	-	<0.029U
Arochlor 1262	mg/kg	0.012		-	-	<0.016U	-	-	<0.067U
Total PCBs	mg/kg		1	-	-	**1.304**	-	-	**14.91**
Inorganics									
Arsenic	mg/kg	1	16	-	-	5.6	-	-	7.6
Barium	mg/kg	20	400	-	-	90	-	-	75
Beryllium	mg/kg	0.41	72	-	-	0.38J	-	-	0.35J
Cadmium	mg/kg	0.12	4.3	-	-	0.26J	-	-	0.14J
Chromium (III+VI)	mg/kg	0.51	110	-	-	9.8	-	-	9.7
Copper	mg/kg	2.5	270	-	-	21	-	-	41
Lead	mg/kg	1	400	-	-	22	-	-	64
Manganese	mg/kg	1.5	2000	-	-	420	-	-	310
Nickel	mg/kg	4.1	310	-	-	18	-	-	21
Selenium	mg/kg	0.4	180	-	-	<0.55U	-	-	<0.46U
Silver	mg/kg	0.17	180	-	-	<0.23U	-	-	<0.19U
Zinc	mg/kg	2	10000	-	-	59	-	-	95
Mercury	mg/kg	0.028	0.81	-	-	0.036J,F1	-	-	0.058J
Cyanide Total	mg/kg	0.14	27	-	-	0.38J	-	-	<0.17U
SVOCs									
1,4-Dioxane	mg/kg	0.0053	13	-	-	<0.0067U,F2	-	-	<0.028U
2,4,5-trichlorophenol	mg/kg	0.0034		-	-	<0.0042U,F2	-	-	<0.018U
2,4,6-trichlorophenol	mg/kg	0.0031		-	-	<0.0039U,F2	-	-	<0.016U
2,4-Dinitrotoluene	mg/kg	0.0047		-	-	<0.0059U,F2	-	-	<0.025U
2-methylphenol	mg/kg	0.0031	100	-	-	<0.0039U,F2	-	-	<0.017U
4-methylphenol	mg/kg	0.0031	100	-	-	0.012J	-	-	<0.017U
Acenaphthene	mg/kg	0.0024	100	-	-	0.0091J	-	-	0.037J
Acenaphthylene	mg/kg	0.0024	100	-	-	0.038J	-	-	0.59
Anthracene	mg/kg	0.0026	100	-	-	0.036J	-	-	0.41
Benz(a)anthracene	mg/kg	0.0071	1	-	-	0.097J	-	-	**1.2**
Benzo(a) pyrene	mg/kg	0.0071	1	-	-	0.1J	-	-	**1.2**
Benzo(b)fluoranthene	mg/kg	0.0071	1	-	-	0.14J	-	-	**1.7**
Benzo(g,h,i)perylene	mg/kg	0.0071	100	-	-	0.096J	-	-	1.4
Benzo(k)fluoranthene	mg/kg	0.0071	3.9	-	-	0.051J	-	-	0.61
Chrysene	mg/kg	0.0071	3.9	-	-	0.11J	-	-	1.3
Dibenz(a,h)anthracene	mg/kg	0.0029	0.33	-	-	0.024J	-	-	**0.33**
Dibenzofuran	mg/kg	0.0028	59	-	-	0.0075J	-	-	0.061J
Fluoranthene	mg/kg	0.0071	100	-	-	0.18J	-	-	2.6
Fluorene	mg/kg	0.0025	100	-	-	0.011J	-	-	0.12
Hexachlorobenzene	mg/kg	0.0028	1.2	-	-	<0.0036U,F2	-	-	<0.015U
Hexachlorobutadiene	mg/kg	0.0022		-	-	<0.0028U,F2	-	-	<0.012U
Hexachloroethane	mg/kg	0.0025		-	-	<0.0032U,F2	-	-	<0.013U
Indeno(1,2,3-c,d)pyrene	mg/kg	0.0071	0.5	-	-	0.082J	-	-	**1.1**
Naphthalene	mg/kg	0.0026	100	-	-	0.015J	-	-	0.094
Nitrobenzene	mg/kg	0.0027		-	-	<0.0034U,F2	-	-	<0.014U
Pentachlorophenol	mg/kg	0.067	6.7	-	-	<0.084U,F2	-	-	<0.36U
Phenanthrene	mg/kg	0.0071	100	-	-	0.085J	-	-	1.5
Phenol	mg/kg	0.0048	100	-	-	<0.006U,F2	-	-	<0.025U
Pyrene	mg/kg	0.0071	100	-	-	0.15J	-	-	2
Pyridine	mg/kg	0.0034		-	-	<0.0042UJ	-	-	<0.018U
VOCs									
1,1,1-trichloroethane	mg/kg	0.0019	100	<0.0037U,F1	<0.0025U	-	<0.002U	<0.0023U	-
1,1-dichloroethane	mg/kg	0.0014	26	<0.0027U	<0.0018U	-	<0.0014U	<0.0016U	-
1,1-dichloroethene	mg/kg	0.0021	100	<0.0042U	<0.0028U	-	<0.0022U	<0.0026U	-
1,2,4-trimethylbenzene	mg/kg	0.001	52	<0.002U,F1	<0.0013U	-	<0.0011U	<0.0012U	-
1,2-dichlorobenzene	mg/kg	0.003	100	<0.0059U	<0.004U	-	<0.0031U	<0.0036U	-
1,2-dichloroethane	mg/kg	0.0011	3.1	<0.0021U	<0.0014U	-	<0.0011U	<0.0013U	-
1,3,5-trimethylbenzene	mg/kg	0.0013	52	<0.0025U	<0.0017U	-	<0.0013U	<0.0016U	-
1,3-dichlorobenzene	mg/kg	0.0012	49	<0.0023U	<0.0016U	-	<0.0012U	<0.0014U	-
1,4-dichlorobenzene	mg/kg	0.00077	13	<0.0015U	<0.001U	-	<0.0008U	<0.00092U	-
Methyl Ethyl Ketone	mg/kg	0.0022	100	<0.0043U	<0.0029U	-	<0.0023U	<0.0026U	-
Acetone	mg/kg	0.0024	100	<0.0046U	<0.0031U	-	<0.0025U	<0.0028U	-
Benzene	mg/kg	0.0015	4.8	<0.0029U	<0.002U	-	<0.0015U	<0.0018U	-
Carbon tetrachloride	mg/kg	0.0025	2.4	<0.0049U,F1	<0.0033U	-	<0.0026U	<0.003U	-
Chlorobenzene	mg/kg	0.0012	100	<0.0023U	<0.0016U	-	<0.0012U	<0.0014U	-
Chloroform	mg/kg	0.0016	49	<0.0031U	<0.0021U	-	<0.0017U	<0.0019U	-
cis-1,2-dichloroethene	mg/kg	0.0012	100	<0.0023U	<0.0016U	-	<0.0012U	<0.0014U	-
Dichloromethane	mg/kg	0.0018	100	<0.0035U	<0.0023U	-	<0.0018U	<0.0021U	-
Ethylbenzene	mg/kg	0.0016	41	<0.0032U	<0.0021U	-	<0.0017U	<0.0019U	-
Methyl-tert-butyl ether	mg/kg	0.0028	100	<0.0054U	<0.0037U	-	<0.0029U	<0.0033U	-
n-butylbenzene	mg/kg	0.0029	100	<0.0056U	<0.0038U	-	<0.003U	<0.0034U	-
n-propylbenzene	mg/kg	0.0016	100	<0.0031U,F1	<0.0021U	-	<0.0016U	<0.0019U	-
sec-butylbenzene	mg/kg	0.0018	100	<0.0036U	<0.0024U	-	<0.0019U	<0.0022U	-
Trichloroethene	mg/kg	0.0011	21	<0.0022U	<0.0015U	-	<0.0012U	<0.0014U	-
tert-butylbenzene	mg/kg	0.0014	100	<0.0027U	<0.0018U	-	<0.0014U	<0.0017U	-
Tetrachloroethene	mg/kg	0.0015	19	<0.0029U	<0.002U	-	<0.0016U	<0.0018U	-
Toluene	mg/kg	0.0013	100	<0.0025U	<0.0017U	-	<0.0013U	<0.0015U	-
trans-1,2-dichloroethene	mg/kg	0.0019	100	<0.0037U	<0.0025U	-	<0.002U	<0.0023U	-
Vinyl chloride	mg/kg	0.0028	0.9	<0.0054U	<0.0036U	-	<0.0029U	<0.0033U	-
Xylene Total	mg/kg	0.0032	100	<0.0063U	<0.0043U	-	<0.0034U	<0.0039U	-

Notes:

NYSDEC DER-10 App 5 - Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010
Concentrations detected above restricted residentual use for Imported fill or soil are bolded and highlighted in grey
U non detect
J estimated value
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J- estimated value; however value is likely to lower due to lower concentration of the analyte in sample due to negative bias
UJ non detect; however the reported quantation limit is estimated

TABLE 6
Summary of Documentation and Confirmation Sample Results

Former Sperry Remington Site - North Portion
Elmira, New York

Sr. NO.	Depth Interval (ft bgs)	Location ID		PCB Concentration (mg/kg)	Recovery (%)	Comments
NORTH EXCAVATION						
SIDEWALL SAMPLES						
NS-1	0-2	SSHS-B285		0.88	75	
NS-2	0-2	SSHS-B399		0.42	100	
NS-3	0-2	SSHS-B401		0.47	100	
NS-4	0-2	SSHS-B398		0.92	100	
NS-5	0-2	SSHS-B400		0.58	84	
NS-6	0-2	SSHS-NE SIDEWALL S1	*	6.27	100	Bounded by Road
NS-7	0-2	SSHS-B779		0.52	100	
NS-8	0-2	SSHS-B780		0.25	100	
NS-9	0-2	SSHS-B72		0.08	100	
NS-10	0-2	SSHS-B821		ND	100	
NS-11	0-2	SSHS-B587		0.10	100	
NS-12	0-2	SSHS-B777		0.30	100	
NS-13	0-2	SSHS-B77		0.16	100	
NS-14	0-2	SSHS-B678		0.55	100	
NS-15	0-2	SSHS-B759		0.45	100	
NS-16	0-2	SSHS-B675		0.14	100	
NS-17	0-2	SSHS-B774		0.36	100	
NS-18	0-2	SSHS-B592		0.53	100	
NS-19	0-2	SSHS-B822		ND	100	Hand-Augured
NS-20	0-2	SSHS-B771		0.40	100	
NS-21	0-2	SSHS-B749		0.89	100	
NS-22	0-2	SSHS-B593		0.22	100	
NS-23	0-2	SSHS-B770		0.31	100	
NS-24	0-2	SSHS-B769		0.86	100	
NS-25	0-2	SSHS-B596		0.33	100	
NS-26	0-2	SSHS-B767		0.69	100	
NS-27	0-2	SSHS-B595		0.06	100	
NS-28	0-2	SSHS-B745		0.42	100	
NS-29	0-2	SSHS-B746		0.40	100	
NS-30	0-2	SSHS-B402		0.17	100	
BOTTOM SAMPLES						
NB-1	2-4	SSHS-B762		1.11	42	
NB-2	2-4	SSHS-B664		0.52	50	
NB-3	2-4	SSHS-B755		1.77	46	
NB-4	2-4	SSHS-B580		0.70	42	
NB-5	2-4	SSHS-B760		0.42	66	
NB-6	2-4	SSHS-B577		1.30	46	
NB-7	2-4	SSHS-B753		2.30	58	
NB-8	2-4	SSHS-B586		0.70	80	
NB-9	2-4	SSHS-B763		ND	50	
NB-10	2-4	SSHS-B677		ND	66	
NB-11	2-4	SSHS-B75		0.15	25	
NB-12	2-4	SSHS-B778		0.01	34	
NB-13	2-4	SSHS-B77		ND	38	
NB-14	2-4	SSHS-B76		ND	100	
NB-15	2-4	SSHS-B583		0.12	75	
NB-16	2-4	SSHS-B754		2.32	66	
NB-17	2-4	SSHS-B581		0.13	92	
NB-18	2-4	SSHS-B761		0.01	58	
NB-19	2-4	SSHS-B585		0.23	42	
NB-20	2-4	SSHS-B584		2.74	25	
NB-20	2-4	SSHS-B756		0.40	34	
NB-22	2-4	SSHS-B582		0.41	17	
NB-23	2-4	SSHS-B757		ND	25	
NB-24	2-4	SSHS-B578		1.18	58	
NB-25	2-4	SSHS-B758		1.06	54	
NB-26	2-4	SSHS-B579		ND	84	
NB-27	2-4	SSHS-B752		0.01	17	
NB-28	2-4	SSHS-B765		ND	58	
NB-29	2-4	SSHS-B766		0.39	54	
NB-30	2-4	SSHS-B773		0.11	50	
NB-31	2-4	SSHS-B772		0.19	62	
NB-32	2-4	SSHS-B748		0.56	79	
NB-33	2-4	SSHS-B768		0.29	66	
NB-34	2-4	SSHS-B747		0.39	46	
NB-35	2-4	SSHS-B594		0.72	50	
NB-36	2-4	SSHS-B750		0.36	92	

TABLE 6
Summary of Documentation and Confirmation Sample Results

Former Sperry Remington Site - North Portion
Elmira, New York

Sr. NO.	Depth Interval (ft bgs)	Location ID		PCB Concentration (mg/kg)	Recovery (%)	Comments
SOUTH EXCAVATION						
SIDEWALL SAMPLES						
SS-1	0-2	SSHS-B15-B		6.3	100	0.17 -1 ft bgs
	0-2	SSHS-B15-B		0.14	100	1 -2 ft bgs
SS-2	0-2	SSHS-B247		0.06	100	
SS-3	0-2	SSHS-B249	X	0.04	100	
SS-4	0-2	SSHS-B253	X	0.18	100	
SS-5	0-2	SSHS-B634		0.03	100	
SS-6	0-2	SSHS-B827	X	ND	88	
SS-7	0-2	SSHS-B632C	X	0.02	100	
SS-8	0-2	SSHS-B464	X	0.05	66	
SS-9	0-2	SSHS-B329		0.25	100	
SS-10	0-2	SSHS-B473		0.42	100	
SS-11	0-2	SSHS-B334		0.78	100	
SS-12	0-2	SSHS-B455		ND	100	
SS-13	0-2	SSHS-B456		ND	100	
SS-14	0-2	SSHS-B457		0.04	100	
SS-15	0-2	SSHS-B454		3.63	96	Bounded By Stands,Track
SS-16	0-2	SSHS-B332		0.63	100	Bounded By Track
SS-17	0-2	SSHS-B624		5.25	100	Bounded By Track
SS-18	0-2	SSHS-B344		4.36	100	Bounded By Track
SS-19	0-2	SSHS-B460		13.81	75	Bounded By Track
SS-20	0-2	SSHS-B327		1.95	100	Bounded By Track
SS-21	0-2	SSHS-B461		10.90	100	Bounded By Track
SS-22	0-2	SSHS-B620		5.46	100	Bounded By Track
SS-23	0-2	SSHS-B444		6.63	88	Bounded By Track
SS-24	0-2	SSHS-SE SIDEWALL 1	*	0.05	100	Bounded By Track
SS-25	0-2	SSHS-B619		3.36	100	Bounded by School Building
SS-26	0-2	SSHS-B477		0.53	100	Bounded by School Building
SS-27	0-2	SSHS-B744		0.48	86	Bounded by School Building
SS-28	0-2	SSHS-B688		0.20	100	
SS-29	0-2	SSHS-B648		0.43	88	
SS-30	0-2	SSHS-B243		0.64	100	
SS-31	2-4	SSHS-B329		0.01	66	
SS-32	2-4	SSHS-B704		0.66	86	
SS-33	2-4	SSHS-B696		2.10	79	
SS-34	2-4	SSHS-B783		0.29	42	
SS-35	2-4	SSHS-B722		0.05	50	
SS-36	2-4	SSHS-B721		0.57	71	
SS-37	2-4	SSHS-B784		0.11	42	
SS-38	2-4	SSHS-B799		0.11	54	
SS-39	2-4	SSHS-B681		0.26	79	
SS-40	2-4	SSHS-B634	X	0.27	58	
SS-41	2-4	SSHS-B798A		0.22	92	
BOTTOM SAMPLES						
SB-1	2-4	SSHS-B279		8.00	54	
SB-2	2-4	SSHS-B281		9.35	38	
SB-3	2-4	SSHS-B282		2.64	50	
SB-4	2-4	SSHS-B283		1.10	75	
SB-5	2-4	SSHS-B284		3.81	54	
SB-6	2-4	SSHS-B331		0.61	34	
SB-7	2-4	SSHS-B333		4.78	29	
SB-8	2-4	SSHS-B335		7.16	29	
SB-9	2-4	SSHS-B624		2.38	58	
SB-10	2-4	SSHS-SE BTM WALL 1	*	27.42	100	
SB-11	2-4	SSHS-SE BTM WALL 2	*	56.50	100	
SB-12	2-4	SSHS-SE BTM WALL 3	*	5.19	100	
SB-13	4-6	SSHS-B329		0.06	100	
SB-14	4-6	SSHS-B632		0.0021	79	
SB-15	4-6	SSHS-B632A		1.79	100	
SB-16	4-6	SSHS-B633		0.13	100	
SB-17	4-6	SSHS-B634		ND	100	
SB-18	4-6	SSHS-B679		ND	100	
SB-19	4-6	SSHS-B680		4.60	100	
SB-20	4-6	SSHS-B697		4.54	100	
SB-21	4-6	SSHS-B803		3.92	100	
SB-22	4-6	SSHS-B804		0.23	96	
SB-23	4-6	SSHS-B804A		0.13	66	

TABLE 6
Summary of Documentation and Confirmation Sample Results

Former Sperry Remington Site - North Portion
Elmira, New York

Sr. NO.	Depth Interval (ft bgs)	Location ID		PCB Concentration (mg/kg)	Recovery (%)	Comments
STRA EXCAVATION						
SIDEWALL SAMPLES						
FS-1	0-2	SSHS-B324		7.57	95	
FS-2	0-0.17	SSHS-B615		0.39	100	
FS-3	0-0.17	SSHS-B616		0.652	100	
FS-4	0-0.17	SSHS-B733		0.077	100	
FS-5	0-0.17	SSHS-B734		0.12	100	
FS-6	0-0.17	SSHS-FB-6A		0.33	100	
BOTTOM SAMPLES						
FB-1	0-2	SSHS-B315		11.99	100	
FB-2	0-2	SSHS-B814		1.27	100	
FB-3	0-2	SSHS-B815		7.06	100	
FB-4	0-2	SSHS-B816		0.61	100	
FB-5	0-2	SSHS-B817		0.32	100	
FB-6	0-2	SSHS-B818		0.29	100	
FB-7	0-2	SSHS-FB9-AA		2.5	100	
FB-8	0- 0.5	SSHS-B169B		0.74	100	
FB-9	0-2	SSHS-B175		6.23	100	Hand-Augured
FB-10	0-2	SSHS-B151		43.6	82	
FB-11	0-2	SSHS-B173		42.4	100	
FB-12	0-2	SSHS-B428		8.84	100	Bounded By Track
FB-13	0-2	SSHS-B429		9	100	Bounded By Track
FB-14	0-2	SSHS-B441		0.91	58	
FB-15	0-2	SSHS-B442		2.55	68	
FB-16	0-2	SSHS-FB9		0.068	N/A	
FB-17	0-2	SSHS-B138		0.55	66	
FB-18	0-2	SSHS-B170		29	0.27	NYSDEC Sample (2000)

Notes

ft bgs	feet below ground surface
PCB	polychlorinated biphenyl
N/A	Not Available
ND	Not Detected
*	Post-Excavation Confirmation Sample
X	Sidewall samples used to delineate 0-2 ft excavation but removed during completion of the 2-4 ft excavation.

TABLE 7
Summary of Excavation Bottom Areas

Former Sperry Remington Site - North Portion
Elmira, New York

IRM Area	Figure Reference	Bottom Depth (ft)	Bottom of Excavation Area[1] (SF)	Perimeter (ft)	Bottom Samples		
					Number of Samples Collected[2]	Range of Total PCB Concentration (mg/kg)	Sampling Basis
North Excavation	3	2	39,537	1,130	37	Non-Detect - 2.74 mg/kg	1 per 1,068 square feet; no sample in 2-4 ft bgs interval exceeds cleanup goal of 10 mg/kg
South Excavation	4	2	7,395	435.7	12	0.61 -56.5 mg/kg	1 per 900 square feet
	5	4	5,858	386	9	0.17 - 4.6 mg/kg	1 per 900 square feet
STRA	6	0.5	9,657	464	18	0.068 - 43.6 mg/kg	1 per 900 square feet

Notes:
1 Bottom of excavation is area below which soil was or will not be removed for remedial purposes.
2 The number of bottom samples to be collected were discussed with NYSDEC and presented in the revised Final IRM Work Plan approved by NYSDEC.
ft feet
SF square feet
mg/kg milligrams per kilogram
ft bgs feet below ground surface
PCB polychlorinated biphenyl
STRA Short-Term Response Action (Football Field)

Table 8A
Summary of Analytical Results for Imported Backfill

Former Sperry Remington Site - North Portion
Elmira, New York

Lab Sample ID			NYSDEC DER10 App 5 Constituent Levels for Imported Fill or Soil	L916338-01		L916338-02		L916338-03		L916338-04		L916338-05		L916338-06		L916338-07	
Client Sample ID			Restricted Residential Use	BREWERS_PIT_1		BREWERS_PIT_2		BREWERS_PIT_3		BREWERS_PIT_4		BREWERS_PIT_5		BREWERS_PIT_6		BREWERS_PIT_7	
Date Collected			May 2010	06/14/2017		06/14/2017		06/14/2017		06/14/2017		06/14/2017		06/14/2017		06/14/2017	
Method	Analyte	Units		Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
	TOTAL SOLIDS	%		94.7		93.5		95.2		95.8		94.4		96		95.5	
	ALDRIN	mg/kg	0.097	<0.0211		<0.0214											
	ALPHA BHC	mg/kg	0.02	<0.0211		<0.0214											
	BETA BHC	mg/kg	0.09	<0.0211		<0.0214											
	DELTA BHC	mg/kg	0.25	<0.0211		<0.0214											
	GAMMA BHC	mg/kg	0.1	<0.0211		<0.0214											
	CHLORDANE	mg/kg		<0.211		<0.214											
	4,4-DDD	mg/kg	13	<0.0211		<0.0214											
	4,4-DDE	mg/kg	8.9	<0.0211		<0.0214											
	4,4-DDT	mg/kg	7.9	<0.0211		<0.0214											
Pesticides	DIELDRIN	mg/kg	0.1	<0.0211		<0.0214											
	ENDOSULFAN I	mg/kg	24	<0.0211		<0.0214											
	ENDOSULFAN II	mg/kg	24	<0.0211		<0.0214											
	ENDOSULFAN SULFATE	mg/kg	24	<0.0211		<0.0214											
	ENDRIN	mg/kg	0.06	<0.0211		<0.0214											
	ENDRIN ALDEHYDE	mg/kg		<0.0211		<0.0214											
	ENDRIN KETONE	mg/kg		<0.0211		<0.0214											
	HEPTACHLOR	mg/kg	0.38	<0.0211		<0.0214											
	HEPTACHLOR EPOXIDE	mg/kg		<0.0211		<0.0214											
	HEXACHLOROBENZENE	mg/kg	1.2	<0.0211		<0.0214											
	METHOXYCHLOR	mg/kg		<0.0211		<0.0214											
	TOXAPHENE	mg/kg		<0.423		<0.428											
	PCB 1016	mg/kg		<0.018		<0.0182											
	PCB 1221	mg/kg		<0.018		<0.0182											
	PCB 1232	mg/kg		<0.018		<0.0182											
PCBs	PCB 1242	mg/kg		<0.018		<0.0182											
	PCB 1248	mg/kg		<0.018		<0.0182											
	PCB 1254	mg/kg		<0.018		<0.0182											
	PCB 1260	mg/kg		<0.018		<0.0182											
	ACETONE	mg/kg	0.05	0.0126	J	0.0153	J	0.0142	J	0.0177	J	0.0236	J	0.0144	J	0.012	J
	ACRYLONITRILE	mg/kg		<0.0106		<0.0107		<0.0105		<0.0104		<0.0106		<0.0104		<0.0105	
	BENZENE	mg/kg	0.06	0.00142		0.00198		0.00223		0.00209		0.00231		0.00206		0.00158	
	BROMOBENZENE	mg/kg		<0.00106		<0.00107		<0.00105		<0.00104		<0.00106		<0.00104		<0.00105	
	BROMODICHLOROMETHANE	mg/kg		<0.00106		<0.00107		<0.00105		<0.00104		<0.00106		<0.00104		<0.00105	
	BROMOFORM	mg/kg		<0.00106		<0.00107		<0.00105		<0.00104		<0.00106		<0.00104		<0.00105	
	BROMOMETHANE	mg/kg		<0.00528		<0.00535		<0.00525		<0.00522		<0.0053		<0.00521		<0.00524	
	N-BUTYLBENZENE	mg/kg	12	<0.00106		<0.00107		<0.00105		<0.00104		<0.00106		<0.00104		<0.00105	
	SEC-BUTYLBENZENE	mg/kg	11	<0.00106		<0.00107		<0.00105		<0.00104		<0.00106		<0.00104		<0.00105	
	TERT-BUTYLBENZENE	mg/kg	5.9	<0.00106		<0.00107		<0.00105		<0.00104		<0.00106		<0.00104		<0.00105	
	CARBON TETRACHLORIDE	mg/kg	0.76	<0.00106		<0.00107		<0.00105		<0.00104		<0.00106		<0.00104		<0.00105	
	CHLOROBENZENE	mg/kg	1.1	<0.00106		<0.00107		<0.00105		<0.00104		<0.00106		<0.00104		<0.00105	
	CHLORODIBROMOMETHANE	mg/kg		<0.00106		<0.00107		<0.00105		<0.00104		<0.00106		<0.00104		<0.00105	
	CHLOROETHANE	mg/kg		<0.00528		<0.00535		<0.00525		<0.00522		<0.0053		<0.00521		<0.00524	
	CHLOROFORM	mg/kg	0.37	<0.00528		<0.00535		<0.00525		<0.00522		<0.0053		<0.00521		<0.00524	
	CHLOROMETHANE	mg/kg		<0.00264		<0.00268		<0.00263		<0.00261		<0.00265		<0.0026		<0.00262	
	2-CHLOROTOLUENE	mg/kg		<0.00106		<0.00107		<0.00105		<0.00104		<0.00106		<0.00104		<0.00105	
	4-CHLOROTOLUENE	mg/kg		<0.00106		<0.00107		<0.00105		<0.00104		<0.00106		<0.00104		<0.00105	
	1,2-DIBROMO-3-CHLOROPROPANE	mg/kg		<0.00528		<0.00535		<0.00525		<0.00522		<0.0053		<0.00521		<0.00524	
	1,2-DIBROMOETHANE	mg/kg		<0.00106		<0.00107		<0.00105		<0.00104		<0.00106		<0.00104		<0.00105	
	DIBROMOMETHANE	mg/kg		<0.00106		<0.00107		<0.00105		<0.00104		<0.00106		<0.00104		<0.00105	
	1,2-DICHLOROBENZENE	mg/kg	1.1	<0.00106		<0.00107		<0.00105		<0.00104		<0.00106		<0.00104		<0.00105	
	1,3-DICHLOROBENZENE	mg/kg	2.4	<0.00106		<0.00107		<0.00105		<0.00104		<0.00106		<0.00104		<0.00105	
	1,4-DICHLOROBENZENE	mg/kg	1.8	<0.00106		<0.00107		<0.00105		<0.00104		<0.00106		<0.00104		<0.00105	
	DICHLORODIFLUOROMETHANE	mg/kg		<0.00528		<0.00535		<0.00525		<0.00522		<0.0053		<0.00521		<0.00524	
	1,1-DICHLOROETHANE	mg/kg	0.27	<0.00106		<0.00107		<0.00105		<0.00104		<0.00106		<0.00104		<0.00105	
	1,2-DICHLOROETHANE	mg/kg	0.02	<0.00106		<0.00107		<0.00105		<0.00104		<0.00106		<0.00104		<0.00105	
	1,1-DICHLOROETHENE	mg/kg	0.33	<0.00106		<0.00107		<0.00105		<0.00104		<0.00106		<0.00104		<0.00105	
	CIS-1,2-DICHLOROETHENE	mg/kg	0.25	<0.00106	J4	<0.00107	J4	<0.00105	J4	<0.00104	J4	<0.00106	J4	<0.00104	J4	<0.00105	J4
	TRANS-1,2-DICHLOROETHENE	mg/kg	0.19	<0.00106	J4	<0.00107	J4	<0.00105	J4	<0.00104	J4	<0.00106	J4	<0.00104	J4	<0.00105	J4
	1,2-DICHLOROPROPANE	mg/kg		<0.00106		<0.00107		<0.00105		<0.00104		<0.00106		<0.00104		<0.00105	
	1,1-DICHLOROPROPENE	mg/kg		<0.00106		<0.00107		<0.00105		<0.00104		<0.00106		<0.00104		<0.00105	
	1,3-DICHLOROPROPANE	mg/kg		<0.00106		<0.00107		<0.00105		<0.00104		<0.00106		<0.00104		<0.00105	
VOCs	CIS-1,3-DICHLOROPROPENE	mg/kg		<0.00106		<0.00107		<0.00105		<0.00104		<0.00106		<0.00104		<0.00105	
	TRANS-1,3-DICHLOROPROPENE	mg/kg		<0.00106		<0.00107		<0.00105		<0.00104		<0.00106		<0.00104		<0.00105	
	2,2-DICHLOROPROPANE	mg/kg		<0.00106		<0.00107		<0.00105		<0.00104		<0.00106		<0.00104		<0.00105	
	DI-ISOPROPYL ETHER	mg/kg		<0.00106		<0.00107		<0.00105		<0.00104		<0.00106		<0.00104		<0.00105	
	ETHYLBENZENE	mg/kg	1	<0.00106		<0.00107		<0.00105		<0.00104		<0.00106		<0.00104		<0.00105	
	HEXACHLORO-1,3-BUTADIENE	mg/kg		<0.00106		<0.00107		<0.00105		<0.00104		<0.00106		<0.00104		<0.00105	
	ISOPROPYLBENZENE	mg/kg		<0.00106		<0.00107		<0.00105		<0.00104		<0.00106		<0.00104		<0.00105	
	P-ISOPROPYLTOLUENE	mg/kg		<0.00106		<0.00107		<0.00105		<0.00104		<0.00106		<0.00104		<0.00105	
	2-BUTANONE (MEK)	mg/kg	0.12	<0.0106	J0	<0.0107	J0	<0.0105	J0	<0.0104	J0	<0.0106	J0	<0.0104	J0	<0.0105	J0
	METHYLENE CHLORIDE	mg/kg	0.05	<0.00528	UJ	<0.00535	UJ	<0.00525	UJ	<0.00522	UJ	<0.0053	UJ	<0.00521	UJ	<0.00524	UJ
	4-METHYL-2-PENTANONE (MIBK)	mg/kg		<0.0106		<0.0107		<0.0105		<0.0104		<0.0106		<0.0104		<0.0105	
	METHYL TERT-BUTYL ETHER	mg/kg	0.93	<0.00106		<0.00107		<0.00105		<0.00104		<0.00106		<0.00104		<0.00105	
	NAPHTHALENE	mg/kg	12	<0.00528		<0.00535		<0.00525		<0.00522		<0.0053		<0.00521		<0.00524	
	N-PROPYLBENZENE	mg/kg	3.9	<0.00106		<0.00107		<0.00105		<0.00104		<0.00106		<0.00104		<0.00105	
	STYRENE	mg/kg		<0.00106		<0.00107		<0.00105		<0.00104		<0.00106		<0.00104		<0.00105	
	1,1,1,2-TETRACHLOROETHANE	mg/kg		<0.00106		<0.00107		<0.00105		<0.00104		<0.00106		<0.00104		<0.00105	
	1,1,2,2-TETRACHLOROETHANE	mg/kg		<0.00106		<0.00107		<0.00105		<0.00104		<0.00106		<0.00104		<0.00105	
	1,1,2-TRICHLOROTRIFLUOROETHANE	mg/kg		<0.00106		<0.00107		<0.00105		<0.00104		<0.00106		<0.00104		<0.00105	
	TETRACHLOROETHENE	mg/kg	1.3	<0.00106		<0.00107		<0.00105		<0.00104		<0.00106		<0.00104		<0.00105	
	TOLUENE	mg/kg	0.7	0.0023	J	0.00374	J	0.0034	J	0.00337	J	0.00402	J	0.00346	J	0.00257	J
	1,2,3-TRICHLOROBENZENE	mg/kg		<0.00106		<0.00107		<0.00105		<0.00104		<0.00106		<0.00104		<0.00105	
	1,2,4-TRICHLOROBENZENE	mg/kg		<0.00106		<0.00107		<0.00105		<0.00104		<0.00106		<0.00104		<0.00105	
	1,1,1-TRICHLOROETHANE	mg/kg	0.68	<0.00106		<0.00107		<0.00105		<0.00104		<0.00106		<0.00104		<0.00105	
	1,1,2-TRICHLOROETHANE	mg/kg		<0.00106		<0.00107		<0.00105		<0.00104		<0.00106		<0.00104		<0.00105	
	TRICHLOROETHENE	mg/kg	0.47	<0.00106		<0.00107		<0.00105		<0.00104		<0.00106		<0.00104		<0.00105	
	TRICHLOROFLUOROMETHANE	mg/kg		<0.00528		<0.00535		<0.00525		<0.00522		<0.0053		<0.00521		<0.00524	
	1,2,3-TRICHLOROPROPANE	mg/kg		<0.00264		<0.00268		<0.00263		<0.00261		<0.00265		<0.0026		<0.00262	
	1,2,4-TRIMETHYLBENZENE	mg/kg	3.6	0.000479	J	0.000661	J	0.000599	J	0.000585	J	0.000787	J	0.000533	J	0.000434	J
	1,2,3-TRIMETHYLBENZENE	mg/kg		<0.00106		<0.00107		<0.00105		<0.00104		<0.00106		<0.00104		<0.00105	
	VINYL CHLORIDE	mg/kg	0.02	<0.00106		<0.00107		<0.00105		<0.00104		<0.00106		<0.00104		<0.00105	
	1,3,5-TRIMETHYLBENZENE	mg/kg	8.4	0.000312	J	0.000399	J	0.000371	J	0.000408	J	0.00049	J	0.000381	J	0.000299	J
	XYLENES, TOTAL	mg/kg	1.6	0.00184	J	0.00293	J	0.00259	J	0.00259	J	0.00329		0.00261	J	0.00193	J
	TOLUENE-D8	% Rec		102		104		103		102		104		104		104	
	DIBROMOFLUOROMETHANE	% Rec		122		122		124		124		123		124		125	
	4-BROMOFLUOROBENZENE	% Rec		93.2		92.3		92.9		91		92.3		91		93.4	
	ACENAPHTHENE	mg/kg	98	<0.0349		<0.0353		<0.0347		<0.0345		<0.035		<0.0344		<0.0346	
	ACENAPHTHYLENE	mg/kg	100	<0.0349		<0.0353		<0.0347		<0.0345		<0.035		<0.0344		<0.0346	
	ANTHRACENE	mg/kg	100	<0.0349		<0.0353		<0.0347		<0.0345		<0.035		<0.0344		<0.0346	
	BENZIDINE	mg/kg		<0.352	J4	<0.356	J4	<0.35	J4	<0.348	J4	<0.353	J4	<0.347	J4	<0.349	J4
	BENZO(A)ANTHRACENE	mg/kg	1	<0.0349		<0.0353		<0.0347		<0.0345		<0.035		<0.0344		<0.0346	
	BENZO(B)FLUORANTHENE	mg/kg	1	<0.0349		<0.0353		<0.0347		<0.0345		<0.035		<0.0344		<0.0346	
	BENZO(K)FLUORANTHENE	mg/kg	1.7	<0.0349		<0.0353		<0.0347		<0.0345		<0.035		<0.0344		<0.0346	
	BENZO(G,H,I)PERYLENE	mg/kg	100	<0.0349		<0.0353		<0.0347		<0.0345		<0.035		<0.0344		<0.0346	
	BENZO(A)PYRENE	mg/kg	1	<0.0349		<0.0353		<0.0347		<0.0345		<0.035		<0.0344		<0.0346	
	BIS(2-CHLORETHOXY)METHANE	mg/kg		<0.352		<0.356		<0.35		<0.348		<0.353		<0.347		<0.349	
	BIS(2-CHLOROETHYL)ETHER	mg/kg		<0.352		<0.356		<0.35		<0.348		<0.353		<0.347		<0.349	
SVOCs	BIS(2-CHLOROISOPROPYL)ETHER	mg/kg		<0.352		<0.356		<0.35		<0.348		<0.353		<0.347		<0.349	
	4-BROMOPHENYL-PHENYLETHER	mg/kg		<0.352		<0.356		<0.35		<0.348		<0.353		<0.347		<0.349	
	2-CHLORONAPHTHALENE	mg/kg		<0.0349		<0.0353		<0.0347		<0.0345		<0.035		<0.0344		<0.0346	
	4-CHLOROPHENYL-PHENYLETHER	mg/kg		<0.352		<0.356		<0.35		<0.348		<0.353		<0.347		<0.349	
	CHRYSENE	mg/kg	1	<0.0349		<0.0353		<0.0347		<0.0345		<0.035		<0.0344		<0.0346	
	DIBENZ(A,H)ANTHRACENE	mg/kg	0.33	<0.0349		<0.0353		<0.0347		<0.0345		<0.035		<0.0344		<0.0346	
	3,3-DICHLOROBENZIDINE	mg/kg		<0.352	J4	<0.356	J4	<0.35	J4	<0.348	J4	<0.353	J4	<0.347	J4	<0.349	J4
	2,4-DINITROTOLUENE	mg/kg		<0.352		<0.356		<0.35		<0.348		<0.353		<0.347		<0.349	
	2,6-DINITROTOLUENE	mg/kg		<0.352		<0.356		<0.35		<0.348		<0.353		<0.347		<0.349	
	FLUORANTHENE	mg/kg	100	<0.0349		<0.0353		<0.0347		<0.0345		<0.035		<0.0344		<0.0346	
	FLUORENE	mg/kg	100	<0.0349		<0.0353		<0.0347		<0.0345		<0.035		<0.0344		<0.0346	
	HEXACHLOROBENZENE	mg/kg	1.2	<0.352		<0.356		<0.35		<0.348		<0.353		<0.347		<0.349	

Table 8A
Summary of Analytical Results for Imported Backfill

Former Sperry Remington Site - North Portion
Elmira, New York

			NYSDEC DER10 App 5 Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010															
Lab Sample ID				L916338-01		L916338-02		L916338-03		L916338-04		L916338-05		L916338-06		L916338-07		
Client Sample ID				BREWERS_PIT_1		BREWERS_PIT_2		BREWERS_PIT_3		BREWERS_PIT_4		BREWERS_PIT_5		BREWERS_PIT_6		BREWERS_PIT_7		
Date Collected				06/14/2017		06/14/2017		06/14/2017		06/14/2017		06/14/2017		06/14/2017		06/14/2017		
SVOCS	HEXACHLORO-1,3-BUTADIENE	mg/kg		<0.352		<0.356		<0.35		<0.348		<0.353		<0.347		<0.349		
	HEXACHLOROCYCLOPENTADIENE	mg/kg		<0.352		<0.356		<0.35		<0.348		<0.353		<0.347		<0.349		
	HEXACHLOROETHANE	mg/kg		<0.352		<0.356		<0.35		<0.348		<0.353		<0.347		<0.349		
	INDENO(1,2,3-CD)PYRENE	mg/kg	0.5	<0.0349		<0.0353		<0.0347		<0.0345		<0.035		<0.0344		<0.0346		
	ISOPHORONE	mg/kg		<0.352		<0.356		<0.35		<0.348		<0.353		<0.347		<0.349		
	NAPHTHALENE	mg/kg	12	<0.0349		<0.0353		<0.0347		<0.0345		<0.035		<0.0344		<0.0346		
	NITROBENZENE	mg/kg		<0.352		<0.356		<0.35		<0.348		<0.353		<0.347		<0.349		
	N-NITROSODIMETHYLAMINE	mg/kg		<0.352		<0.356		<0.35		<0.348		<0.353		<0.347		<0.349		
	N-NITROSODIPHENYLAMINE	mg/kg		<0.352		<0.356		<0.35		<0.348		<0.353		<0.347		<0.349		
	N-NITROSODI-N-PROPYLAMINE	mg/kg		<0.352		<0.356		<0.35		<0.348		<0.353		<0.347		<0.349		
	PHENANTHRENE	mg/kg	100	<0.0349		<0.0353		<0.0347		<0.0345		<0.035		<0.0344		<0.0346		
	BENZYLBUTYL PHTHALATE	mg/kg		<0.352		<0.356		<0.35		<0.348		<0.353		<0.347		<0.349		
	BIS(2-ETHYLHEXYL)PHTHALATE	mg/kg		<0.352		<0.356		<0.35		<0.348		<0.353		<0.347		<0.349		
	DI-N-BUTYL PHTHALATE	mg/kg		<0.352		<0.356		<0.35		<0.348		<0.353		<0.347		<0.349		
	DIETHYL PHTHALATE	mg/kg		<0.352		<0.356		<0.35		<0.348		<0.353		<0.347		<0.349		
	DIMETHYL PHTHALATE	mg/kg		<0.352		<0.356		<0.35		<0.348		<0.353		<0.347		<0.349		
	DI-N-OCTYL PHTHALATE	mg/kg		<0.352		<0.356		<0.35		<0.348		<0.353		<0.347		<0.349		
	PYRENE	mg/kg	100	<0.0349		<0.0353		<0.0347		<0.0345		<0.035		<0.0344		<0.0346		
	1,2,4-TRICHLOROBENZENE	mg/kg		<0.352		<0.356		<0.35		<0.348		<0.353		<0.347		<0.349		
	4-CHLORO-3-METHYLPHENOL	mg/kg		<0.352		<0.356		<0.35		<0.348		<0.353		<0.347		<0.349		
	2-CHLOROPHENOL	mg/kg		<0.352		<0.356		<0.35		<0.348		<0.353		<0.347		<0.349		
	2,4-DICHLOROPHENOL	mg/kg		<0.352		<0.356		<0.35		<0.348		<0.353		<0.347		<0.349		
	2,4-DIMETHYLPHENOL	mg/kg		<0.352		<0.356		<0.35		<0.348		<0.353		<0.347		<0.349		
	4,6-DINITRO-2-METHYLPHENOL	mg/kg		<0.352		<0.356		<0.35		<0.348		<0.353		<0.347		<0.349		
	2,4-DINITROPHENOL	mg/kg		<0.352	J3	<0.356	J3	<0.35	J3	<0.348	J3	<0.353	J3	<0.347	J3	<0.349	J3	
	2-NITROPHENOL	mg/kg		<0.352		<0.356		<0.35		<0.348		<0.353		<0.347		<0.349		
	4-NITROPHENOL	mg/kg		<0.352		<0.356		<0.35		<0.348		<0.353		<0.347		<0.349		
	PENTACHLOROPHENOL	mg/kg	0.8	<0.352		<0.356		<0.35		<0.348		<0.353		<0.347		<0.349		
	PHENOL	mg/kg	0.33	<0.352		<0.356		<0.35		<0.348		<0.353		<0.347		<0.349		
	2,4,6-TRICHLOROPHENOL	mg/kg		<0.352		<0.356		<0.35		<0.348		<0.353		<0.347		<0.349		
	2-FLUOROPHENOL	% Rec		62.6		60.9		53.8		67.7		67.3		51.2		63.1		
	PHENOL-D5	% Rec		64		60.8		59.2		68.5		66.9		57		63.1		
	NITROBENZENE-D5	% Rec		59.3		52.9		57.2		65.2		56.5		53.7		59.5		
	2-FLUOROBIPHENYL	% Rec		60.5		64.3		64.6		64.9		71.4		62.5		64.4		
	2,4,6-TRIBROMOPHENOL	% Rec		78.2		83.6		71.8		85.7		87.4		71.8		85		
	P-TERPHENYL-D14	% Rec		65.8		69		66.6		67.5		72.6		68.9		67		
Metals and Inorganics	TOTAL SOLIDS	%		94.7		93.4		95.2		95.8		94.4		96		95.5		
	CHROMIUM,TRIVALENT	mg/kg	19	<2.11		<2.14		<2.1		<2.09		<2.12		<2.08		<2.09		
	CHROMIUM,HEXAVALENT	mg/kg	180	7.11		8.16		6.46		7.74		7.66		7.17		7.32		
	ARSENIC	mg/kg	16	2.38		1.74	J	0.927	J	2.26		2.69		2.76		3.96		
	BARIUM	mg/kg	400	47.4		52.7		37.3		53.3		47.3		47.7		44.6		
	BERYLLIUM	mg/kg	47	0.273		0.268		0.210	J	0.279		0.281		0.248		0.218		
	CADMIUM	mg/kg	4.3	<0.528		<0.535		<0.525		<0.522		<0.530		0.0816	J	<0.524		
	COPPER	mg/kg	270	20.3		23.7		15.5		20.0		19.0		20.3		16.5		
	LEAD	mg/kg	400	8.70		7.22		5.20		7.96		8.42		6.85		9.15		
	MANGANESE	mg/kg	2000	344		359		237		339		409		401		327		
	NICKEL	mg/kg	130	13.2		15.6		9.99		14.6		13.3		13.3		13.1		
	SILVER	mg/kg	8.3	<1.06		<1.07		<1.05		<1.04		<1.06		<1.04		<1.05		
	ZINC	mg/kg	2480	62.4		64.3		45.5		65.4		55.1		62.8		55.7		
	MERCURY	mg/kg	0.73	0.00723	J	0.00672	J	0.00543	J	0.00793	J	0.0102	J	0.00694	J	0.00569	J	
	CYANIDE	mg/kg	27	<0.264		<0.268		<0.263		<0.261		<0.265		<0.260		0.0497	J	

Notes:

Lab Qualifiers:J: The identification of the analyte is acceptable; the reported value is an estimate.J0: J0: Calibration verification outside of acceptance limits. Result is estimated.J3: The associated batch QC was outside the established quality control range for precision.J4: The associated batch QC was outside the established quality control range for accuracyJ5: The sample matrix interfered with the ability to make any accurate determination; spike value is highJ6: The sample matrix interfered with the ability to make any accurate determination; spike value is low

NYSDEC DER-10 App 5 - Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010
U non detect
J estimated value
J+ estimated value; however value is likely to higher due to higher concentration of the analyte in sample due to positive bias
J- estimated value; however value is likely to lower due to lower concentration of the analyte in sample due to negative bias
UJ non detect; however the reported quantation limit is estimated

TABLE 8B
Summary of Analytical Results for Imported Topsoil

Former Sperry Remington Site - North Portion
Elmira, New York

Client Sample ID			NYSDEC DER10 App 5 Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010	GRAB 1					GRAB 2					GRAB 3					GRAB 4				
Lab Sample ID				L923206-03					L923206-09					L923206-08					L923206-02				
Date Collected				07/18/2017					07/18/2017					07/18/2017					07/18/2017				
Method	Analyte	Units		Result	Qualifier	Validation r	Validation c	Reason cod	Result	Qualifier	Validation r	Validation c	Reason cod	Result	Qualifier	Validation r	Validation c	Reason cod	Result	Qualifier	Validation r	Validation c	Reason cod
VOCs	ACETONE	mg/kg	**0.05**	**0.0351**	J J3		J	**5**	**0.0466**	J J3		J	**5**	**0.0308**	J J3		J	**5**	**0.0231**	J J3		J	**5**
	ACRYLONITRILE	mg/kg		<0.0113					<0.0112					<0.0115					<0.0114				
	BENZENE	mg/kg	**0.06**	**0.000591**	J				**0.0006**	J				**0.000763**	J				**0.00078**	J			
	BROMOBENZENE	mg/kg		<0.00113					<0.00112					<0.00115					<0.00114				
	BROMODICHLOROMETHANE	mg/kg		<0.00113					<0.00112					<0.00115					<0.00114				
	BROMOFORM	mg/kg		<0.00113	J4				<0.00112	J4				<0.00115	J4				<0.00114	J4		J	**13**
	BROMOMETHANE	mg/kg		<0.00566					<0.00559					<0.00577					<0.00572				
	N-BUTYLBENZENE	mg/kg	**12**	<0.00113					<0.00112					<0.00115					<0.00114				
	SEC-BUTYLBENZENE	mg/kg	**11**	<0.00113					<0.00112					<0.00115					<0.00114				
	TERT-BUTYLBENZENE	mg/kg	**5.9**	<0.00113					<0.00112					<0.00115					<0.00114				
	CARBON TETRACHLORIDE	mg/kg	**0.76**	<0.00113					<0.00112					<0.00115					<0.00114				
	CHLOROBENZENE	mg/kg	**1.1**	<0.00113					<0.00112					<0.00115					<0.00114				
	CHLORODIBROMOMETHANE	mg/kg		<0.00113					<0.00112					<0.00115					<0.00114				
	CHLOROETHANE	mg/kg		<0.00566					<0.00559					<0.00577					<0.00572				
	CHLOROFORM	mg/kg	**0.37**	<0.00566					<0.00559					<0.00577					<0.00572				
	CHLOROMETHANE	mg/kg		<0.00283					<0.0028					<0.00289					<0.00286				
	2-CHLOROTOLUENE	mg/kg		<0.00113					<0.00112					<0.00115					<0.00114				
	4-CHLOROTOLUENE	mg/kg		<0.00113					<0.00112					<0.00115					<0.00114				
	1,2-DIBROMO-3-CHLOROPROPANE	mg/kg		<0.00566					<0.00559					<0.00577					<0.00572				
	1,2-DIBROMOETHANE	mg/kg		<0.00113					<0.00112					<0.00115					<0.00114				
	DIBROMOMETHANE	mg/kg		<0.00113					<0.00112					<0.00115					<0.00114				
	1,2-DICHLOROBENZENE	mg/kg	**1.1**	<0.00113					<0.00112					<0.00115					<0.00114				
	1,3-DICHLOROBENZENE	mg/kg	**2.4**	<0.00113					<0.00112					<0.00115					<0.00114				
	1,4-DICHLOROBENZENE	mg/kg	**1.8**	<0.00113					<0.00112					<0.00115					<0.00114				
	DICHLORODIFLUOROMETHANE	mg/kg		<0.00566					<0.00559					<0.00577					<0.00572				
	1,1-DICHLOROETHANE	mg/kg	**0.27**	<0.00113					<0.00112					<0.00115					<0.00114				
	1,2-DICHLOROETHANE	mg/kg	**0.02**	<0.00113					<0.00112					<0.00115					<0.00114				
	1,1-DICHLOROETHENE	mg/kg	**0.33**	<0.00113					<0.00112					<0.00115					<0.00114				
	CIS-1,2-DICHLOROETHENE	mg/kg	**0.25**	<0.00113					<0.00112					<0.00115					<0.00114				
	TRANS-1,2-DICHLOROETHENE	mg/kg	**0.19**	<0.00113					<0.00112					<0.00115					<0.00114				
	1,2-DICHLOROPROPANE	mg/kg		<0.00113					<0.00112					<0.00115					<0.00114				
	1,1-DICHLOROPROPENE	mg/kg		<0.00113					<0.00112					<0.00115					<0.00114				
	1,3-DICHLOROPROPANE	mg/kg		<0.00113					<0.00112					<0.00115					<0.00114				
	CIS-1,3-DICHLOROPROPENE	mg/kg		<0.00113					<0.00112					<0.00115					<0.00114				
	TRANS-1,3-DICHLOROPROPENE	mg/kg		<0.00113					<0.00112					<0.00115					<0.00114				
	2,2-DICHLOROPROPANE	mg/kg		<0.00113					<0.00112					<0.00115					<0.00114				
	DI-ISOPROPYL ETHER	mg/kg		<0.00113					<0.00112					<0.00115					<0.00114				
	ETHYLBENZENE	mg/kg	**1**	<0.00113					<0.00112					<0.00115					<0.00114				
	HEXACHLORO-1,3-BUTADIENE	mg/kg		<0.00113					<0.00112					<0.00115					<0.00114				
	ISOPROPYLBENZENE	mg/kg		<0.00113					<0.00112					<0.00115					<0.00114				
	P-ISOPROPYLTOLUENE	mg/kg		<0.00113					<0.00112					<0.00115					<0.00114				
	2-BUTANONE (MEK)	mg/kg	**0.12**	<0.0113					<0.0112					<0.0115					<0.0114				
	METHYLENE CHLORIDE	mg/kg	**0.05**	<0.00566					<0.00559					<0.00577					<0.00572				
	4-METHYL-2-PENTANONE (MIBK)	mg/kg		<0.0113					<0.0112					<0.0115					<0.0114				
	METHYL TERT-BUTYL ETHER	mg/kg	**0.93**	<0.00113					<0.00112					<0.00115					<0.00114				
	NAPHTHALENE	mg/kg	**12**	<0.00566					<0.00559					<0.00577					<0.00572				
	N-PROPYLBENZENE	mg/kg	**3.9**	<0.00113					<0.00112					<0.00115					<0.00114				
	STYRENE	mg/kg		<0.00113					<0.00112					<0.00115					<0.00114				
	1,1,1,2-TETRACHLOROETHANE	mg/kg		<0.00113					<0.00112					<0.00115					<0.00114				
	1,1,2,2-TETRACHLOROETHANE	mg/kg		<0.00113					<0.00112					<0.00115					<0.00114				
	1,1,2-TRICHLOROTRIFLUOROETHANE	mg/kg		<0.00113					<0.00112					<0.00115					<0.00114				
	TETRACHLOROETHENE	mg/kg	**1.3**	<0.00113					<0.00112					<0.00115					<0.00114				
	TOLUENE	mg/kg	**0.7**	**0.00279**	J				**0.00196**	J				**0.00277**	J				**0.00367**	J			
	1,2,3-TRICHLOROBENZENE	mg/kg		<0.00113					<0.00112					<0.00115					<0.00114				
	1,2,4-TRICHLOROBENZENE	mg/kg		<0.00113					<0.00112					<0.00115					<0.00114				
	1,1,1-TRICHLOROETHANE	mg/kg	**0.68**	<0.00113					<0.00112					<0.00115					<0.00114				
	1,1,2-TRICHLOROETHANE	mg/kg		<0.00113					<0.00112					<0.00115					<0.00114				
	TRICHLOROETHENE	mg/kg	**0.47**	<0.00113					<0.00112					<0.00115					<0.00114				
	TRICHLOROFLUOROMETHANE	mg/kg		<0.00566					<0.00559					<0.00577					<0.00572				
	1,2,3-TRICHLOROPROPANE	mg/kg		<0.00283					<0.0028					<0.00289					<0.00286				
	1,2,4-TRIMETHYLBENZENE	mg/kg	**3.6**	<0.00113					<0.00112					<0.00115					<0.00114				
	1,2,3-TRIMETHYLBENZENE	mg/kg		<0.00113					<0.00112					<0.00115					<0.00114				
	VINYL CHLORIDE	mg/kg	**0.02**	<0.00113					<0.00112					<0.00115					<0.00114				
	1,3,5-TRIMETHYLBENZENE	mg/kg	**8.4**	<0.00113					<0.00112					<0.00115					<0.00114				
	XYLENES, TOTAL	mg/kg	**1.6**	**0.000834**	J				<0.00336					<0.00346					**0.0011**	J			

Notes: **Lab Qualifiers:J: The identification of the analyte is acceptable; the reported value is an estimate.J0: J0: Calibration verification outside of acceptance limits. Result is estimated.J3: The associated batch QC was outside the established quality control range for precision.J4: The associated batch QC was outside the established quality control range for accuracyJ5: The sample matrix interfered with the ability to make any accurate determination; spike value is highJ6: The sample matrix interfered with the ability to make any accurate determination; spike value is low**

NYSDEC DER-10 App 5 - Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010

VALIDATION QUALIFIER DEFINITIONS

U non detect

J estimated value

J+ estimated value; however value is likely to higher due to higher concentration of the analyte in sample due to positive bias

J- estimated value; however value is likely to lower due to lower concentration of the analyte in sample due to negative bias

UJ non detect; however the reported quantation limit is estimated

TABLE 8B
Summary of Analytical Results for Imported Topsoil

Former Sperry Remington Site - North Portion
Elmira, New York

Client Sample ID			NYSDEC DER10 App 5 Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010	GRAB 5					GRAB 6					GRAB 7					DUP 1					
Lab Sample ID				L923206-05					L923206-04					L923206-07					L923206-06					
Date Collected				07/18/2017					07/18/2017					07/18/2017					07/18/2017					
Method	Analyte	Units		Result	Qualifier	Validation n	Validation d	Reason cod	Result	Qualifier	Validation n	Validation d	Reason cod	Result	Qualifier	Validation n	Validation d	Reason cod	Result	Qualifier	Validation n	Validation d	Reason cod	Validation date
	ACETONE	mg/kg	**0.05**	**0.0324**	J J3		J	**5**	**0.0356**	J J3		J	**5**	**0.0386**	J J5		J	4, 5	**0.0254**	J J3		J	**5**	**8/2/2017**
	ACRYLONITRILE	mg/kg		<0.0117					<0.0113					<0.0117					<0.011					**8/2/2017**
	BENZENE	mg/kg	**0.06**	**0.000497**	J				**0.000574**	J				**0.000458**	J				**0.00066**	J				**8/2/2017**
	BROMOBENZENE	mg/kg		<0.00117					<0.00113					<0.00117	R				<0.0011					**8/2/2017**
	BROMODICHLOROMETHANE	mg/kg		<0.00117					<0.00113					<0.00117					<0.0011					**8/2/2017**
	BROMOFORM	mg/kg		<0.00117	J4				<0.00113	J4				<0.00117	J4				<0.0011	J4				**8/2/2017**
	BROMOMETHANE	mg/kg		<0.00587					<0.00566					<0.00585					<0.00552					**8/2/2017**
	N-BUTYLBENZENE	mg/kg	**12**	<0.00117					<0.00113					<0.00117			R	**4**	<0.0011					**8/2/2017**
	SEC-BUTYLBENZENE	mg/kg	**11**	<0.00117					<0.00113					<0.00117					<0.0011					**8/2/2017**
	TERT-BUTYLBENZENE	mg/kg	**5.9**	<0.00117					<0.00113					<0.00117					<0.0011					**8/2/2017**
	CARBON TETRACHLORIDE	mg/kg	**0.76**	<0.00117					<0.00113					<0.00117					<0.0011					**8/2/2017**
	CHLOROBENZENE	mg/kg	**1.1**	<0.00117					<0.00113					<0.00117					<0.0011					**8/2/2017**
	CHLORODIBROMOMETHANE	mg/kg		<0.00117					<0.00113					<0.00117					<0.0011					**8/2/2017**
	CHLOROETHANE	mg/kg		<0.00587					<0.00566					<0.00585					<0.00552					**8/2/2017**
	CHLOROFORM	mg/kg	**0.37**	<0.00587					<0.00566					<0.00585					<0.00552					**8/2/2017**
	CHLOROMETHANE	mg/kg		<0.00293					<0.00283					<0.00293					<0.00276					**8/2/2017**
	2-CHLOROTOLUENE	mg/kg		<0.00117					<0.00113					<0.00117			R	**4**	<0.0011					**8/2/2017**
	4-CHLOROTOLUENE	mg/kg		<0.00117					<0.00113					<0.00117			R	**4**	<0.0011					**8/2/2017**
	1,2-DIBROMO-3-CHLOROPROPANE	mg/kg		<0.00587					<0.00566					<0.00585					<0.00552					**8/2/2017**
	1,2-DIBROMOETHANE	mg/kg		<0.00117					<0.00113					<0.00117					<0.0011					**8/2/2017**
	DIBROMOMETHANE	mg/kg		<0.00117					<0.00113					<0.00117					<0.0011					**8/2/2017**
	1,2-DICHLOROBENZENE	mg/kg	**1.1**	<0.00117					<0.00113					<0.00117			R	**4**	<0.0011					**8/2/2017**
	1,3-DICHLOROBENZENE	mg/kg	**2.4**	<0.00117					<0.00113					<0.00117	J3		R	**4**	<0.0011					**8/2/2017**
	1,4-DICHLOROBENZENE	mg/kg	**1.8**	<0.00117					<0.00113					<0.00117			R	**4**	<0.0011					**8/2/2017**
	DICHLORODIFLUOROMETHANE	mg/kg		<0.00587					<0.00566					<0.00585					<0.00552					**8/2/2017**
	1,1-DICHLOROETHANE	mg/kg	**0.27**	<0.00117					<0.00113					<0.00117					<0.0011					**8/2/2017**
	1,2-DICHLOROETHANE	mg/kg	**0.02**	<0.00117					<0.00113					<0.00117					<0.0011					**8/2/2017**
	1,1-DICHLOROETHENE	mg/kg	**0.33**	<0.00117					<0.00113					<0.00117					<0.0011					**8/2/2017**
	CIS-1,2-DICHLOROETHENE	mg/kg	**0.25**	<0.00117					<0.00113					<0.00117					<0.0011					**8/2/2017**
	TRANS-1,2-DICHLOROETHENE	mg/kg	**0.19**	<0.00117					<0.00113					<0.00117					<0.0011					**8/2/2017**
	1,2-DICHLOROPROPANE	mg/kg		<0.00117					<0.00113					<0.00117					<0.0011					**8/2/2017**
	1,1-DICHLOROPROPENE	mg/kg		<0.00117					<0.00113					<0.00117					<0.0011					**8/2/2017**
VOCs	1,3-DICHLOROPROPANE	mg/kg		<0.00117					<0.00113					<0.00117					<0.0011					**8/2/2017**
	CIS-1,3-DICHLOROPROPENE	mg/kg		<0.00117					<0.00113					<0.00117					<0.0011					**8/2/2017**
	TRANS-1,3-DICHLOROPROPENE	mg/kg		<0.00117					<0.00113					<0.00117					<0.0011					**8/2/2017**
	2,2-DICHLOROPROPANE	mg/kg		<0.00117					<0.00113					<0.00117					<0.0011					**8/2/2017**
	DI-ISOPROPYL ETHER	mg/kg		<0.00117					<0.00113					<0.00117					<0.0011					**8/2/2017**
	ETHYLBENZENE	mg/kg	**1**	<0.00117					<0.00113					<0.00117					<0.0011					**8/2/2017**
	HEXACHLORO-1,3-BUTADIENE	mg/kg		<0.00117					<0.00113					<0.00117			R	**4**	<0.0011					**8/2/2017**
	ISOPROPYLBENZENE	mg/kg		<0.00117					<0.00113					<0.00117					<0.0011					**8/2/2017**
	P-ISOPROPYLTOLUENE	mg/kg		<0.00117					**0.00033**	J				<0.00117					<0.0011					**8/2/2017**
	2-BUTANONE (MEK)	mg/kg	**0.12**	<0.0117					<0.0113					<0.0117					<0.011					**8/2/2017**
	METHYLENE CHLORIDE	mg/kg	**0.05**	<0.00587					<0.00566					<0.00585					<0.00552					**8/2/2017**
	4-METHYL-2-PENTANONE (MIBK)	mg/kg		<0.0117					<0.0113					<0.0117					<0.011					**8/2/2017**
	METHYL TERT-BUTYL ETHER	mg/kg	**0.93**	<0.00117					<0.00113					<0.00117					<0.0011					**8/2/2017**
	NAPHTHALENE	mg/kg	**12**	<0.00587					<0.00566					<0.00585	J6		R	**4**	<0.00552					**8/2/2017**
	N-PROPYLBENZENE	mg/kg	**3.9**	<0.00117					<0.00113					<0.00117					<0.0011					**8/2/2017**
	STYRENE	mg/kg		<0.00117					<0.00113					<0.00117	J3 J6		R	**4**	<0.0011					**8/2/2017**
	1,1,1,2-TETRACHLOROETHANE	mg/kg		<0.00117					<0.00113					<0.00117					<0.0011					**8/2/2017**
	1,1,2,2-TETRACHLOROETHANE	mg/kg		<0.00117					<0.00113					<0.00117					<0.0011					**8/2/2017**
	1,1,2-TRICHLOROTRIFLUOROETHANE	mg/kg		<0.00117					<0.00113					<0.00117					<0.0011					**8/2/2017**
	TETRACHLOROETHENE	mg/kg	**1.3**	<0.00117					<0.00113					<0.00117					<0.0011					**8/2/2017**
	TOLUENE	mg/kg	**0.7**	**0.00254**	J				**0.00202**	J				**0.00228**	J				**0.003**	J				**8/2/2017**
	1,2,3-TRICHLOROBENZENE	mg/kg		<0.00117					<0.00113					<0.00117	J6		R	**4**	<0.0011					**8/2/2017**
	1,2,4-TRICHLOROBENZENE	mg/kg		<0.00117					<0.00113					<0.00117	J6		R	**4**	<0.0011					**8/2/2017**
	1,1,1-TRICHLOROETHANE	mg/kg	**0.68**	<0.00117					<0.00113					<0.00117					<0.0011					**8/2/2017**
	1,1,2-TRICHLOROETHANE	mg/kg		<0.00117					<0.00113					<0.00117					<0.0011					**8/2/2017**
	TRICHLOROETHENE	mg/kg	**0.47**	<0.00115					<0.00113					<0.00117					<0.0011					**8/2/2017**
	TRICHLOROFLUOROMETHANE	mg/kg		<0.00587					<0.00566					<0.00585					<0.00552					**8/2/2017**
	1,2,3-TRICHLOROPROPANE	mg/kg		<0.00293					<0.00283					<0.00293					<0.00276					**8/2/2017**
	1,2,4-TRIMETHYLBENZENE	mg/kg	**3.6**	<0.00117					<0.00113					<0.00117	R				<0.0011					**8/2/2017**
	1,2,3-TRIMETHYLBENZENE	mg/kg		<0.00117					<0.00113					<0.00117					<0.0011					**8/2/2017**
	VINYL CHLORIDE	mg/kg	**0.02**	<0.00117					<0.00113					<0.00117					<0.0011					**8/2/2017**
	1,3,5-TRIMETHYLBENZENE	mg/kg	**8.4**	<0.00117					<0.00113					<0.00117	R				<0.0011					**8/2/2017**
	XYLENES, TOTAL	mg/kg	**1.6**	<0.00352					<0.0034					<0.00351					**0.000794**	J				**8/2/2017**

Notes: **Lab Qualifiers:J: The identification of the analyte is acceptable; the reported value is an estimate.J0: J0: Calibration verification outside of acceptance limits. Result is estimated.J3: The associated batch QC was outside the established quality control range for precision.J4: The associated batch QC was outside the established quality control range for accuracyJ5: The sample matrix interfered with the ability to make any accurate determination; spike value is highJ6: The sample matrix interfered with the ability to make any accurate determination; spike value is low**

NYSDEC DER-10 App 5 - Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010

VALIDATION QUALIFIER DEFINITIONS

U non detect

J estimated value

J+ estimated value; however value is likely to higher due to higher concentration of the analyte in sample due to positive bias

J- estimated value; however value is likely to lower due to lower concentration of the analyte in sample due to negative bias

UJ non detect; however the reported quantation limit is estimated

Table 9A
PCB results for Surface and Shallow soils Remaining in Place
Former Sperry Remington Site - North Portion
Elmira, NY

					PCBs									
					Total PCBs	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Aroclor 1262	Aroclor 1268
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Restricted - Residential SCO					1									
NYS Hazardous Waste					50									
Site Location	Location	Sample Name	Sample Depth (ft bgs)	Sample Date										
Football Field	SSHS-B138	SSHS-B138-SUB-0-2	0 - 2 ft	7/27/2015	0.55	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	0.32 J	0.19 J	0.04 J	< 0.019 U	< 0.019 U
Football Field	SSHS-B151	SSHS-B151-SUB-0.17-2	0.17 - 2 ft	8/5/2015	43.6	< 0.91 U	< 0.91 U	< 0.91 U	< 0.91 U	29 J	13 J	1.6 J	< 0.91 U	< 0.91 U
Football Field	SSHS-B15-B	SSHS-B15-B-0.17-1	0.17 - 1 ft	7/22/2014	6.3	< 0.044 U	< 0.044 U	< 0.044 U	< 0.044 U	4.3 J	2 J	< 0.044 U	< 0.044 U	< 0.044 U
Football Field	SSHS-B15-B	SSHS-B15-B-1-2	1 - 2 ft	7/22/2014	0.144	< 0.0089 U	< 0.0089 U	< 0.0089 U	< 0.0089 U	0.088 J	0.056 J	< 0.0089 U	< 0.0089 U	< 0.0089 U
Football Field	SSHS-B169	SSHS-B169-SUB-0.17-2	0.17-2	8/1/2015	80.3	< 0.92 U	< 0.92 U	< 0.92 U	< 0.92 U	55	23	2.3	< 0.92 U	< 0.92 U
Football Field	SSHS-B169B	B169-B	0 - 0.5 ft	8/3/2017	0.74	< 0.02 U	< 0.02 U	< 0.02 U	< 0.02 U	0.37	0.27	0.1	< 0.02 U	< 0.02 U
Tennis Courts / Main Parking Lot	SSHS-B170	SSHS-B170-SUB-0-2	17	7/27/2015	0.27	< 0.02 U	< 0.02 U	< 0.02 U	< 0.02 U	0.16 J	0.09 J	0.02 U	< 0.02 U	< 0.02 U
Football Field	SSHS-B173	CS-FD-#101	0.17 - 2 ft	8/5/2015	48.6	< 0.37 U	< 0.37 U	< 0.37 U	< 0.37 U	32 J	15 J	1.6 J	< 0.37 U	< 0.37 U
Football Field	SSHS-B173	SSHS-B173-SUB-0.17-2	0.17 - 2 ft	8/5/2015	42.4	< 0.37 U	< 0.37 U	< 0.37 U	< 0.37 U	28 J	13 J	1.4 J	< 0.37 U	< 0.37 U
Tennis Courts / Main Parking Lot	SSHS-B175	SSHS-B175-SUB-0.17-2	0.17 - 2 ft	7/28/2015	6.23	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	4.2 J	1.8 J	0.23 J	< 0.019 U	< 0.019 U
Football Field	SSHS-B243	SSHS-B243-SUB-0-2	0 - 2 ft	7/30/2015	0.639	< 0.02 U	< 0.02 U	< 0.02 U	< 0.02 U	0.36 J	0.23 J	0.049 J	< 0.02 U	< 0.02 U
Football Field	SSHS-B247	SSHS-B247-SUB-0-2	0 - 2 ft	7/20/2015	0.0557	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	0.032 J	0.018 J	0.0057 J	< 0.019 U	< 0.019 U
Football Field	SSHS-B267	SSHS-B267-SUB-0-2	0 - 2 ft	7/30/2015	0.0701	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.029 J	0.032 J	0.0091 J	< 0.018 U	< 0.018 U
Football Field	SSHS-B285	SSHS-B285-SUB-0-2	0 - 2 ft	7/14/2015	0.877	< 0.019	< 0.019	< 0.019	< 0.019	0.51	0.29	0.077	< 0.019	< 0.019
Football Field	SSHS-B315	SSHS-B315-SUB-0.17-2	0.17 - 2 ft	3/1/2016	11.99	< 0.19 U,F1	< 0.19 U	< 0.19 U	< 0.19 U	8.2 J	3.2 J	0.59 J	< 0.19 U	< 0.19 U
Football Field	SSHS-B324	PS-FD-2	0.17 - 2 ft	3/1/2016	7.32	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	5.5 J	1.4 J	0.42 J	< 0.019 U	< 0.019 U
Football Field	SSHS-B324	SSHS-B324-SUB-0.17-2	0.17 - 2 ft	3/1/2016	7.57	< 0.094 U	< 0.094 U	< 0.094 U	< 0.094 U	5.3 J	1.9 J	0.37 J	< 0.094 U	< 0.094 U
Football Field	SSHS-B327	SSHS-B327-SUB-0-2	0 - 2 ft	3/3/2016	1.95	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	0.99 J	0.78 J	0.18 J	< 0.019 U	< 0.019 U
South of Athletic Stands	SSHS-B329	SSHS-B329-SUB-0-2	0 - 2 ft	3/3/2016	0.251	< 0.017 U	< 0.017 U	< 0.017 U	< 0.017 U	0.18 J	0.059 J	0.012 J	< 0.017 U	< 0.017 U
Football Field	SSHS-B332	SSHS-B332-SUB-0-2	0 - 2 ft	3/3/2016	0.626	< 0.02 U	< 0.02 U	< 0.02 U	< 0.02 U	0.4 J	0.18 J	0.046 J	< 0.02 U	< 0.02 U
Northern Athletic Field	SSHS-B334	SSHS-B334-SUB-0-2	0 - 2 ft	3/3/2016	0.784	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.54 J	0.2 J	0.044 J	< 0.018 U	< 0.018 U
Football Field	SSHS-B344	SSHS-B344-SUB-0-2	0 - 2 ft	3/3/2016	4.36	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	2.6 J	1.4 J	0.36 J	< 0.018 U	< 0.018 U
Football Field	SSHS-B398	SSHS-B398-SUB-0-2	0 - 2 ft	8/25/2016	0.92	< 0.019	< 0.019	< 0.019	< 0.019	0.47	0.32	0.13	< 0.019	< 0.019
Football Field	SSHS-B399	SSHS-B399-SUB-0-2	0 - 2 ft	8/25/2016	0.415	< 0.018	< 0.018	< 0.018	< 0.018	0.21	0.15	0.055	< 0.018	< 0.018
Northern Athletic Field	SSHS-B400	SSHS-B400-SUB-0-2	0 - 2 ft	8/25/2016	0.58	< 0.019	< 0.019	< 0.019	< 0.019	0.28	0.21	0.09	< 0.019	< 0.019
Northern Athletic Field	SSHS-B401	SSHS-B401-SUB-0-2	0 - 2 ft	8/25/2016	0.466	< 0.018	< 0.018	< 0.018	< 0.018	0.21	0.18	0.076	< 0.018	< 0.018
Northern Athletic Field	SSHS-B402	SSHS-B402-SUB-0-2	0 - 2 ft	8/30/2016	0.168	< 0.018 U	< 0.018 U	< 0.018 U	< 0.079 U	0.059 J	0.082 J	0.027 J	< 0.018 U	< 0.018 U
Tennis Courts / Main Parking Lot	SSHS-B428	SSHS-B428-SUB-0.17-2	0.17 - 2 ft	8/26/2016	8.84	< 0.018 U	< 0.018 U	< 0.018 U	< 0.079 U	4.8 J	3.1 J	0.94 J	< 0.018 U	< 0.018 U
Football Field	SSHS-B429	SSHS-B429-SUB-0.17-2	0.17 - 2 ft	8/26/2016	9	< 0.019 U	< 0.019 U	< 0.019 U	< 0.079 U	6.2 J	2.3 J	0.5 J	< 0.019 U	< 0.019 U
Football Field	SSHS-B440	SSHS-B440-SUB-0-2	0 - 2 ft	8/26/2016	53.9	< 0.37 UJ	< 0.37 U	< 0.37 U	< 0.37 U	38 J	14 J	1.9 J	< 0.37 U	< 0.37 U
Football Field	SSHS-B441	SSHS-B441-SUB-0-2	0 - 2 ft	8/24/2016	0.91	< 0.02 U	< 0.02 U	< 0.02 U	< 0.02 U	0.7 J	0.21 J	< 0.02 U	< 0.02 U	< 0.02 U
Football Field	SSHS-B442	SSHS-B442-SUB-0-2	0 - 2 ft	8/24/2016	2.55	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	1.7 J	0.69 J	0.16 J	< 0.019 U	< 0.019 U
Football Field	SSHS-B444	SSHS-B444-SUB-0-2	0 - 2 ft	8/26/2016	6.63	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	4.4 J	1.8 J	0.43 J	< 0.018 U	< 0.018 U
Football Field	SSHS-B454	SSHS-B454-SUB-0-2	0 - 2 ft	8/24/2016	3.63	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	2.4 J	1 J	0.23 J	< 0.018 U	< 0.018 U
South of Athletic Stands	SSHS-B455	SSHS-B455-SUB-0-2	0 - 2 ft	8/30/2016	ND	< 0.017 U	< 0.017 U	< 0.017 U	< 0.017 U	< 0.017 U	< 0.017 U	< 0.017 U	< 0.017 U	< 0.017 U
Tennis Courts / Main Parking Lot	SSHS-B456	SSHS-B456-SUB-0-2	0 - 2 ft	8/30/2016	ND	< 0.017 U	< 0.017 U	< 0.017 U	< 0.017 U	< 0.017 U	< 0.017 U	< 0.017 U	< 0.017 U	< 0.017 U
Tennis Courts / Main Parking Lot	SSHS-B457	SSHS-B457-SUB-0-2	0 - 2 ft	8/30/2016	0.038	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.022 J	0.016 J	< 0.018 U	< 0.018 U	< 0.018 U
Tennis Courts / Main Parking Lot	SSHS-B460	SSHS-B460-SUB-0-2	0 - 2 ft	8/31/2016	13.81	< 0.09 U	< 0.09 U	< 0.09 U	< 0.09 U	10 J	3.1 J	0.71 J	< 0.09 U	< 0.09 U
Tennis Courts / Main Parking Lot	SSHS-B461	SSHS-B461-SUB-0-2	0 - 2 ft	8/31/2016	10.9	< 0.088 U	< 0.088 U	< 0.088 U	< 0.088 U	8 J	2.4 J	0.5 J	< 0.088 U	< 0.088 U
Tennis Courts / Main Parking Lot	SSHS-B473	SSHS-B473-SUB-0-2	0 - 2 ft	8/30/2016	0.424	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.3 J	0.11 J	0.014 J	< 0.018 U	< 0.018 U
Tennis Courts / Main Parking Lot	SSHS-B477	SSHS-B477-SUB-0-2	0 - 2 ft	8/29/2016	0.529	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	0.3 J	0.2 J	0.029 J	< 0.019 U	< 0.019 U
Football Field	SSHS-B587	PS-FD-21	0 - 2 ft	2/15/2017	0.068	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	0.04 J	0.028 J	< 0.019 U	< 0.019 U	< 0.019 U
Football Field	SSHS-B587	SSHS-B587-SUB-0-2	0 - 2 ft	2/15/2017	0.104	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.063 J	0.041 J	< 0.018 U	< 0.018 U	< 0.018 U
Football Field	SSHS-B592	SSHS-B592-SUB-0-2	0 - 2 ft	2/15/2017	0.53	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.19 J	0.2 J	0.14 J	< 0.018 U	< 0.018 U
Tennis Courts / Main Parking Lot	SSHS-B593	SSHS-B593-SUB-0-2	0 - 2 ft	2/15/2017	0.223	< 0.017 U	< 0.017 U	< 0.017 U	< 0.017 U	0.045 J	0.12 J	0.058 J	< 0.017 U	< 0.017 U
South of Athletic Stands	SSHS-B595	PS-FD-8	0.17 - 2 ft	2/10/2017	0.081	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.037 J	0.028 J	0.016 J	< 0.018 U	< 0.018 U
South of Athletic Stands	SSHS-B595	SSHS-B595-SUB-0.17-2	0.17 - 2 ft	2/10/2017	0.063	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.037 J	0.026 J	< 0.018 U	< 0.018 U	< 0.018 U
Tennis Courts / Main Parking Lot	SSHS-B596	SSHS-B596-SUB-0.17-2	0.17 - 2 ft	2/10/2017	0.327	< 0.02 U	< 0.02 U	< 0.02 U	< 0.02 U	0.2 J	0.093 J	0.034 J	< 0.02 U	< 0.02 U
Tennis Courts / Main Parking Lot	SSHS-B615	SSHS-B615-SS	0 - 0.17 ft	2/7/2017	0.393	< 0.023 U	< 0.023 U	< 0.023 U	< 0.023 U	0.24 J	0.12 J	0.033 J	< 0.023 U	< 0.023 U
Tennis Courts / Main Parking Lot	SSHS-B616	SSHS-B616-SS	0 - 0.17 ft	2/7/2017	0.652	< 0.024 U	< 0.024 U	< 0.024 U	< 0.024 U	0.43 J	0.18 J	0.042 J	< 0.024 U	< 0.024 U
Tennis Courts / Main Parking Lot	SSHS-B619	SSHS-B619-SUB-0-2	0 - 2 ft	2/14/2017	3.36	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	2.3 J	0.89 J	0.17 J	< 0.018 U	< 0.018 U
Tennis Courts / Main Parking Lot	SSHS-B620	SSHS-B620-SUB-0-2	0 - 2 ft	2/13/2017	5.46	< 0.02 U	< 0.02 U	< 0.02 U	< 0.02 U	3.7 J	1.4 J	0.36 J	< 0.02 U	< 0.02 U
Tennis Courts / Main Parking Lot	SSHS-B624	SSHS-B624-SUB-0.17-2	0.17 - 2 ft	2/9/2017	5.25	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	3.4 J	1.5 J	0.35 J	< 0.019 U	< 0.019 U
Tennis Courts / Main Parking Lot	SSHS-B634	SSHS-B634-SUB-0-2	0 - 2 ft	2/10/2017	0.0267	< 0.017 U	< 0.017 U	< 0.017 U	< 0.017 U	0.019 J	0.0077 J	< 0.017 U	< 0.017 U	< 0.017 U
Northern Athletic Field	SSHS-B636	PS-FD-10	0 - 2 ft	2/13/2017	0.05	< 0.017 U	< 0.017 U	< 0.017 U	< 0.017 U	0.031 J	0.019 J	< 0.017 U	< 0.017 U	< 0.017 U
Tennis Courts / Main Parking Lot	SSHS-B636	SSHS-B636-SUB-0-2	0 - 2 ft	2/13/2017	0.038	< 0.017 U	< 0.017 U	< 0.017 U	< 0.017 U	0.024 J	0.014 J	< 0.017 U	< 0.017 U	< 0.017 U
Tennis Courts / Main Parking Lot	SSHS-B648	SSHS-B648-SUB-0-2	0 - 2 ft	2/15/2017	0.427	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	0.25 J	0.14 J	0.037 J	< 0.019 U	< 0.019 U
Tennis Courts / Main Parking Lot	SSHS-B650	SSHS-B650-SUB-0-2	0 - 2 ft	2/14/2017	16.52	< 0.18 U	< 0.18 U	< 0.18 U	< 0.18 U	12 J	3.9 J	0.62 J	< 0.18 U	< 0.18 U
South of Athletic Stands	SSHS-B651	SSHS-651-SUB-0-2	0 - 2 ft	2/14/2017	2.14	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	1.5 J	0.54 J	0.1 J	< 0.018 U	< 0.018 U
Football Field	SSHS-B652	SSHS-B652-SUB-0-2	0 - 2 ft	2/14/2017	25.69	< 0.18 U	< 0.18 U	< 0.18 U	< 0.18 U	20 J	4.8 J	0.89 J	< 0.18 U	< 0.18 U
Football Field	SSHS-B675	217 08:50 SSHS-B675-SUB	0 - 2 ft	3/21/2017	0.137	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.071	0.041	0.025	< 0.018 U	< 0.018 U
South of Athletic Stands	SSHS-B678	SSHS-B678-SUB-0-2	0 - 2 ft	3/21/2017	0.551	< 0.018	< 0.018	< 0.018	< 0.018	0.38	0.11	0.061	< 0.018	< 0.018

Table 9A
PCB results for Surface and Shallow soils Remaining in Place
Former Sperry Remington Site - North Portion
Elmira, NY

					PCBs									
					Total PCBs	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Aroclor 1262	Aroclor 1268
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Restricted - Residential SCO					1									
NYS Hazardous Waste					50									
Site Location	Location	Sample Name	Sample Depth (ft bgs)	Sample Date										
Football Field	SSHS-B688	217 08:50 SSHS-B688-SUB	0 - 2 ft	3/21/2017	0.202	< 0.02	< 0.02	< 0.02	< 0.02	0.18		0.022	< 0.02	< 0.02
Football Field	SSHS-B72	SSHS-B72-0.17-2 (1)	0.17 - 2 ft	8/15/2014	0.0775	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.07	< 0.018 U	0.0075 J	< 0.018 U	< 0.018 U
Football Field	SSHS-B733	SSHS-B733-SS	0 - 0.17 ft	4/11/2017	0.077	< 0.022 U	< 0.022 U	< 0.022 U	< 0.022 U	< 0.022 U	0.054	0.023	< 0.022 U	< 0.022 U
Football Field	SSHS-B734	PS-FD-1	0 - 0.17 ft	4/11/2017	0.078	< 0.022 U	< 0.022 U	< 0.022 U	< 0.022 U	< 0.022 U	0.059	0.019 J	< 0.022 U	< 0.022 U
Football Field	SSHS-B734	SSHS-B734-SS	0 - 0.17 ft	4/11/2017	0.077	< 0.022 U	< 0.022 U	< 0.022 U	< 0.022 U	< 0.022 U	0.059	0.018 J	< 0.022 U	< 0.022 U
Tennis Courts / Main Parking Lot	SSHS-B744	SSHS-B744-SUB-0-2	0 - 2 ft	4/13/2017	0.475	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	0.33	0.12	0.025	< 0.019 U	< 0.019 U
Tennis Courts / Main Parking Lot	SSHS-B745	PS-FD-13	0 - 2 ft	5/22/2017	0.36	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.24	0.094	0.026	< 0.018 U	< 0.018 U
Football Field	SSHS-B745	SSHS-B745-SUB-0-2	0 - 2 ft	5/22/2017	0.421	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	0.28	0.11	0.031	< 0.019 U	< 0.019 U
Tennis Courts / Main Parking Lot	SSHS-B746	SSHS-B746-SUB-0-2	0 - 2 ft	5/22/2017	0.402	< 0.017 U	< 0.017 U	< 0.017 U	< 0.017 U	0.25	0.12	0.032	< 0.017 U	< 0.017 U
Northern Athletic Field	SSHS-B749	PS-FD-11	0 - 2 ft	5/22/2017	0.676	< 0.017 U	< 0.017 U	< 0.017 U	< 0.017 U	0.29	0.29	0.096	< 0.017 U	< 0.017 U
Football Field	SSHS-B749	SSHS-B749-SUB-0-2	0 - 2 ft	5/22/2017	0.89	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.37	0.39	0.13	< 0.018 U	< 0.018 U
Football Field	SSHS-B759	PS-FD-14	0 - 2 ft	5/22/2017	1.07	< 0.017 U	< 0.017 U	< 0.017 U	< 0.017 U	0.55	0.39	0.13	< 0.017 U	< 0.017 U
Football Field	SSHS-B759	SSHS-B759-SUB-0-2	0 - 2 ft	5/22/2017	0.452	< 0.017 U	< 0.017 U	< 0.017 U	< 0.017 U	0.23	0.17	0.052	< 0.017 U	< 0.017 U
Football Field	SSHS-B767	SSHS-B767-SUB-0-2	0 - 2 ft	5/22/2017	0.685	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.39	0.24	0.055	< 0.018 U	< 0.018 U
Football Field	SSHS-B769	SSHS-B769-SUB-0-2	0 - 2 ft	5/22/2017	0.863	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.53	0.26	0.073	< 0.018 U	< 0.018 U
South of Athletic Stands	SSHS-B77	SSHS-B77-0.17-2 (1.5)	0.17 - 2 ft	8/14/2014	0.162	< 0.017	< 0.017	< 0.017	< 0.017	0.089	< 0.017	0.073	< 0.017	< 0.017
South of Athletic Stands	SSHS-B770	SSHS-B770-SUB-0-2	0 - 2 ft	5/22/2017	0.307	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	0.15	0.12	0.037	< 0.019 U	< 0.019 U
South of Athletic Stands	SSHS-B771	SSHS-B771-SUB-0-2	0 - 2 ft	5/22/2017	0.404	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.35	0.054	< 0.018 U	< 0.018 U
Football Field	SSHS-B774	SSHS-B774-SUB-0-2	0 - 2 ft	5/22/2017	0.359	< 0.017 U	< 0.017 U	< 0.017 U	< 0.017 U	0.16	0.15	0.049	< 0.017 U	< 0.017 U
South of Athletic Stands	SSHS-B777	SSHS-B777-SUB-0-2	0 - 2 ft	5/23/2017	0.301	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.17	0.097	0.034	< 0.018 U	< 0.018 U
Football Field	SSHS-B779	SSHS-B779-SUB-0-2	0 - 2 ft	5/22/2017	0.517	< 0.017 U	< 0.017 U	< 0.017 U	< 0.017 U	0.3	0.17	0.047	< 0.017 U	< 0.017 U
Football Field	SSHS-B780	SSHS-B780-SUB-0-2	0 - 2 ft	5/22/2017	0.246	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.15	0.073	0.023	< 0.018 U	< 0.018 U
Football Field	SSHS-B814	SSHS-B814-SUB-0.17-2	0.17 - 2 ft	5/18/2017	1.272	< 0.02 U	< 0.02 U	< 0.02 U	< 0.02 U	0.73	0.48	0.062	< 0.02 U	< 0.02 U
Football Field	SSHS-B815	PS-FD-10	0.17 - 2 ft	5/18/2017	1.076	< 0.02 U	< 0.02 U	< 0.02 U	< 0.02 U	0.59	0.4	0.086	< 0.02 U	< 0.02 U
Football Field	SSHS-B815	SSHS-B815-SUB-0.17-2	0.17 - 2 ft	5/18/2017	7.06	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	3.7	2.8	0.56	< 0.019 U	< 0.019 U
Football Field	SSHS-B816	SSHS-B816-SUB-0.17-2	0.17 - 2 ft	5/18/2017	0.605	< 0.02 U	< 0.02 U	< 0.02 U	< 0.02 U	0.39	0.16	0.055	< 0.02 U	< 0.02 U
South of Athletic Stands	SSHS-B817	SSHS-B817-SUB-0.17-2	0.17 - 2 ft	5/18/2017	0.322	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	0.18	0.088	0.054	< 0.019 U	< 0.019 U
Football Field	SSHS-B818	SSHS-B818-SUB-0.17-2	0.17 - 2 ft	5/18/2017	0.29	< 0.02 U	< 0.02 U	< 0.02 U	< 0.02 U	0.17	0.12	< 0.02 U	< 0.02 U	< 0.02 U
Football Field	SSHS-B821	SSHS-B821-SUB-0-2	0 - 2 ft	5/23/2017	ND	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U
Tennis Courts / Main Parking Lot	SSHS-B822	DUP-1	0 - 2 ft	6/19/2017	ND	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U
Football Field	SSHS-B822	SSHS-B822-SUB-0-2	0 - 2 ft	6/19/2017	ND	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U
Football Field	SSHS-FB6-A	SSHS-DUP5	0 - 0.17 ft	7/22/2014	0.42	< 0.011 U	< 0.011 U	< 0.011 U	< 0.011 U	0.23 J	0.19 J	< 0.011 U	< 0.011 U	< 0.011 U
Football Field	SSHS-FB6-A	SSHS-FB6-A-SS	0 - 0.17 ft	7/22/2014	0.33	< 0.0054 U	< 0.0054 U	< 0.0054 U	< 0.0054 U	0.18 J	0.15 J	< 0.0054 U	< 0.0054 U	< 0.0054 U
Football Field	SSHS-FB9	B23406	1 - 2 ft	6/29/2000	0.068	< 0.041 U	< 0.041 U	< 0.041 U	< 0.041 U	< 0.041 U	< 0.041 U	0.068		
South of Athletic Stands	SSHS-FB9-AA	SSHS-FB9-AA-SUB-0.17-0.	0.17 - 0.5 ft	7/16/2015	2.5	< 0.021 U	< 0.021 U	< 0.021 U	< 0.021 U	1.5 J	0.87 J	0.13 J	< 0.021 U	< 0.021 U
Tennis Courts / Main Parking Lot	SSHS-NE SIDEWALL S1	H EXCAVATION SIDEWA	0 - 2 ft	7/10/2017	6.24	< 0.017	< 0.017	< 0.017	< 0.017	3.8	1.9	0.54	< 0.017	< 0.017
Tennis Courts / Main Parking Lot	SSHS-SE SIDEWALL 1	SE SIDEWALL 1	0 - 2 ft	7/24/2017	0.0091	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	0.0091 J	< 0.019 U	< 0.019 U	< 0.019 U

Notes
PCBs - Polychlorinated Biphenyls
mg/kg - milligrams per kilogram
ft bgs - Feet Below Ground Surface
J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U - non-detect at the value indicated
Analyte concentrations detected above Restricted Residential Soil Cleanup Objectives (SCOs) are presented in dark gray.
SCOs are derived from 6 NYCRR Part 375 (effective 14 December 2006) that was in effect during the performanace of the IRM.
Analyte concentrations detected above New York State Hazardous Waste Criteria are presented in black with white text

Table 9B
PCB results for Subsurface soils Remaining in Place
Former Sperry Remington Site - North Portion
Elmira, NY

					PCBs									
					Total PCBs	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Aroclor 1262	Aroclor 1268
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Subsurface Soil Criteria					10									
NYS Hazardous Waste					50									
Site Location	Location	Sample Name	Sample Depth (ft bgs)	Sample Date										
Tennis Court	SSHS-B36	_12 Sep 00B36_0.5-2.5	0.5 - 2.5 ft	9/12/2000	0.38	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	0.28	< 0.035 U	0.1		
Tennis Court	SSHS-B37	_12 Sep 00B37_0.5-2.5	0.5 - 2.5 ft	9/12/2000	ND	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U	< 0.034 U		
Tennis Court	SSHS-B38	_12 Sep 00B38_1-4.5	1 - 4.5 ft	9/12/2000	0.87	< 0.037 U	< 0.037 U	< 0.037 U	< 0.037 U	0.74	< 0.037 U	0.13		
A-Wing	SSHS-B15-A	SSHS-B15-A-2-3	2 - 3 ft	7/22/2014	0.205	< 0.009 U	< 0.009 U	< 0.009 U	< 0.009 U	0.13 J	0.063 J	< 0.009 U	0.012 J	< 0.009 U
A-Wing	SSHS-B15-B	SSHS-B15-B-2-3	2 - 3 ft	7/22/2014	0.31	< 0.0092 U	< 0.0092 U	< 0.0092 U	< 0.0092 U	0.2 J	0.11 J	< 0.0092 U	< 0.0092 U	< 0.0092 U
A-Wing	SSHS-B15-B	SSHS-B15-DUP8	2 - 3 ft	7/22/2014	0.273	< 0.0091 U	< 0.0091 U	< 0.0091 U	< 0.0091 U	0.16 J	0.097 J	< 0.0091 U	0.016 J	< 0.0091 U
A-Wing	SSHS-B15-C	SSHS-B15-C-2-3	2 - 3 ft	7/22/2014	22	< 0.18 U	< 0.18 U	< 0.18 U	< 0.18 U	15 J	7 J	< 0.18 U	< 0.18 U	< 0.18 U
A-Wing	SSHS-B251	SSHS-B251-SUB-2-3	2 - 3 ft	7/20/2015	8.35	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	6 J	2 J	0.35 J	< 0.018 U	< 0.018 U
South of Athletic Stands	SSHS-B264	SSHS-B264-SUB-2-3	2 - 3 ft	7/17/2015	23.15	< 0.18 U	< 0.18 U	< 0.18 U	< 0.18 U	15 J	7.3 J	0.85 J	< 0.18 U	< 0.18 U
South of Athletic Stands	SSHS-B269	SSHS-B269-SUB-2-3	2 - 3 ft	7/17/2015	11.17	< 0.091 U	< 0.091 U	< 0.091 U	< 0.091 U	7.3 J	3.3 J	0.57 J	< 0.091 U	< 0.091 U
Football Field SW	SSHS-B461	PS-FD-17	2 - 3 ft	8/31/2016	11.28	< 0.091 U	< 0.091 U	< 0.091 U	< 0.091 U	8.6 J	2.3 J	0.38 J	< 0.091 U	< 0.091 U
Football Field SW	SSHS-B461	SSHS-B461-SUB-2-3	2 - 3 ft	8/31/2016	8.63	< 0.089 U	< 0.089 U	< 0.089 U	< 0.089 U	6.6 J	1.7 J	0.33 J	< 0.089 U	< 0.089 U
Football Field SW	SSHS-B462	SSHS-B462-SUB-2-3	2 - 3 ft	8/31/2016	52.9	< 0.19 U	< 0.19 U	< 0.19 U	< 0.19 U	38 J	13 J	1.9 J	< 0.19 U	< 0.19 U
Football Field SW	SSHS-B463	SSHS-B463-SUB-2-3	2 - 3 ft	8/31/2016	15.58	< 0.092 U	< 0.092 U	< 0.092 U	< 0.092 U	11 J	3.9 J	0.68 J	< 0.092 U	< 0.092 U
South of Athletic Stands	SSHS-SS12-A	SSHS-SS12-A-2-3	2 - 3 ft	7/22/2014	11.5	< 0.045 U	< 0.045 U	< 0.045 U	< 0.045 U	8.2 J	3.3 J	< 0.045 U	< 0.045 U	< 0.045 U
South of Athletic Stands	SSHS-SS12-B	SSHS-SS12-B-2-3	2 - 3 ft	7/22/2014	32	< 0.23 U	< 0.23 U	< 0.23 U	< 0.23 U	20 J	12 J	< 0.23 U	< 0.23 U	< 0.23 U
South of Athletic Stands	SSHS-SS12-C	SSHS-SS12-C-2-3	2 - 3 ft	7/22/2014	129	< 0.45 U	< 0.45 U	< 0.45 U	< 0.45 U	100 J	29 J	< 0.45 U	< 0.45 U	< 0.45 U
A-Wing	SSHS-B243	SSHS-B243-SUB-2-4	2 - 4 ft	7/30/2015	1.95	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	1.1 J	0.72 J	0.13 J	< 0.019 U	< 0.019 U
A-Wing	SSHS-B246	SSHS-B246-SUB-2-4	2 - 4 ft	7/30/2015	0.126	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.065 J	0.049 J	0.012 J	< 0.018 U	< 0.018 U
A-Wing	SSHS-B247	SSHS-B247-SUB-2-4	2 - 4 ft	7/20/2015	4.09	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	2.5 J	1.4 J	0.19 J	< 0.018 U	< 0.018 U
A-Wing	SSHS-B248	SSHS-B248-SUB-2-4	2 - 4 ft	7/20/2015	0.261	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	0.14 J	0.1 J	0.021 J	< 0.019 U	< 0.019 U
A-Wing	SSHS-B249	CS-FD-#14	2 - 4 ft	7/30/2015	0.343	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	0.17 J	0.14 J	0.033 J	< 0.019 U	< 0.019 U
A-Wing	SSHS-B249	SSHS-B249-SUB-2-4	2 - 4 ft	7/30/2015	0.487	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	0.28 J	0.17 J	0.037 J	< 0.019 U	< 0.019 U
A-Wing	SSHS-B250	SSHS-B250-SUB-2-4	2 - 4 ft	7/30/2015	14.94	< 0.088 U	< 0.088 U	< 0.088 U	< 0.088 U	9.8 J	4.4 J	0.74 J	< 0.088 U	< 0.088 U
A-Wing	SSHS-B252	SSHS-B252-SUB-2-4	2 - 4 ft	7/20/2015	0.118	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.059 J	0.047 J	0.012 J	< 0.018 U	< 0.018 U
A-Wing	SSHS-B253	SSHS-B253-SUB-2-4	2 - 4 ft	7/30/2015	0.128	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.046 J	0.063 J	0.019 J	< 0.018 U	< 0.018 U
A-Wing	SSHS-B254	SSHS-B254-SUB-2-4	2 - 4 ft	7/30/2015	6.91	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	4.7 J	1.9 J	0.31 J	< 0.019 U	< 0.019 U
A-Wing	SSHS-B255	SSHS-B255-SUB-2-4	2 - 4 ft	7/30/2015	0.0478	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.0088 J	0.024 J	0.015 J	< 0.018 U	< 0.018 U
A-Wing	SSHS-B256	SSHS-B256-SUB-2-4	2 - 4 ft	7/20/2015	1.218	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	0.81 J	0.36 J	0.048 J	< 0.019 U	< 0.019 U
A-Wing	SSHS-B257	SSHS-B257-SUB-2-4	2 - 4 ft	7/30/2015	8.58	< 0.093 U,F1	< 0.093 U	< 0.093 U	< 0.093 U	8 J	< 0.093 U	0.58 J	< 0.093 U	< 0.093 U
South of Athletic Stands	SSHS-B259	SSHS-B259-SUB-2-4	2 - 4 ft	7/29/2015	44.1	< 0.39 U	< 0.39 U	< 0.39 U	< 0.39 U	35 J	7.7 J	1.4 J	< 0.39 U	< 0.39 U
South of Athletic Stands	SSHS-B260	SSHS-B260-SUB-2-4	2 - 4 ft	7/29/2015	62.9	< 0.91 U	< 0.91 U	< 0.91 U	< 0.91 U	44 J	17 J	1.9 J	< 0.91 U	< 0.91 U
South of Athletic Stands	SSHS-B261	SSHS-B261-SUB-2-4	2 - 4 ft	7/17/2015	33.6	< 0.18 U	< 0.18 U	< 0.18 U	< 0.18 U	23 J	9.3 J	1.3 J	< 0.18 U	< 0.18 U
South of Athletic Stands	SSHS-B262	SSHS-B262-SUB-2-4	2 - 4 ft	7/29/2015	20.64	< 0.39 U	< 0.39 U	< 0.39 U	< 0.39 U	18 J	2.1 J	0.54 J	< 0.39 U	< 0.39 U
South of Athletic Stands	SSHS-B265	SSHS-B265-SUB-2-4	2 - 4 ft	7/17/2015	32.3	< 0.18 U	< 0.18 U	< 0.18 U	< 0.18 U	23 J	8.2 J	1.1 J	< 0.18 U	< 0.18 U
South of Athletic Stands	SSHS-B266	SSHS-B266-SUB-2-4	2 - 4 ft	7/17/2015	11.92	< 0.099 U	< 0.099 U	< 0.099 U	< 0.099 U	8.5 J	3.1 J	0.32 J	< 0.099 U	< 0.099 U
Main Parking Lot	SSHS-B267	SSHS-B267-SUB-2-4	2 - 4 ft	7/30/2015	1.763	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	1.2 J	0.49 J	0.073 J	< 0.019 U	< 0.019 U
South of Athletic Stands	SSHS-B268	SSHS-B268-SUB-2-4	2 - 4 ft	7/29/2015	11.55	< 0.18 U	< 0.18 U	< 0.18 U	< 0.18 U	10 J	1.1 J	0.45 J	< 0.18 U	< 0.18 U
South of Athletic Stands	SSHS-B270	SSHS-B270-SUB-2-4	2 - 4 ft	7/17/2015	32.8	< 0.18 U	< 0.18 U	< 0.18 U	< 0.18 U	22 J	9.8 J	1 J	< 0.18 U	< 0.18 U
South of Athletic Stands	SSHS-B271	SSHS-B271-SUB-2-4	2 - 4 ft	7/17/2015	6.78	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	4.7 J	1.8 J	0.28 J	< 0.019 U	< 0.019 U
South of Athletic Stands	SSHS-B273	SSHS-B273-SUB-2-4	2 - 4 ft	7/29/2015	862	< 37 U	< 37 U	< 37 U	< 37 U	600 J	200 J	62 J	< 37 U	< 37 U
South of Athletic Stands	SSHS-B274	SSHS-B274-SUB-2-4	2 - 4 ft	7/29/2015	108.5	< 1.9 U	< 1.9 U	< 1.9 U	< 1.9 U	78 J	27 J	3.5 J	< 1.9 U	< 1.9 U
South of Athletic Stands	SSHS-B275	SSHS-B275-SUB-2-4	2 - 4 ft	7/17/2015	79.9	< 0.19 U	< 0.19 U	< 0.19 U	< 0.19 U	55 J	22 J	2.9 J	< 0.19 U	< 0.19 U
South of Athletic Stands	SSHS-B276	SSHS-B276-SUB-2-4	2 - 4 ft	7/29/2015	19.79	< 0.19 U	< 0.19 U	< 0.19 U	< 0.19 U	16 J	3.2 J	0.59 J	< 0.19 U	< 0.19 U
South of Athletic Stands	SSHS-B277	SSHS-B277-SUB-2-4	2 - 4 ft	7/29/2015	0.834	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.63 J	0.15 J	0.054 J	< 0.018 U	< 0.018 U
South of Athletic Stands	SSHS-B278	SSHS-B278-SUB-2-4	2 - 4 ft	7/16/2015	3.64	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	2.3 J	1.2 J	0.14 J	< 0.018 U	< 0.018 U
South of Athletic Stands	SSHS-B278A	SSHS-B278A-SUB-2-4	2 - 4 ft	7/13/2017	16.97	< 0.18 U	< 0.18 U	< 0.18 U	< 0.18 U	11	5.6	0.37	< 0.18 U	< 0.18 U
South of Athletic Stands	SSHS-B279	SSHS-B279-SUB-2-4	2 - 4 ft	7/29/2015	8	< 0.19 U	< 0.19 U	< 0.19 U	< 0.19 U	4.3 J	2 J	1.7 J	< 0.19 U	< 0.19 U
South of Athletic Stands	SSHS-B280	SSHS-B280-SUB-2-4	2 - 4 ft	7/16/2015	0.094	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.049 J	0.045 J	< 0.018 U	< 0.018 U	< 0.018 U
South of Athletic Stands	SSHS-B281	SSHS-B281-SUB-2-4	2 - 4 ft	7/17/2015	9.35	< 0.02 U	< 0.02 U	< 0.02 U	< 0.02 U	5.9 J	3.1 J	0.35 J	< 0.02 U	< 0.02 U
South of Athletic Stands	SSHS-B282	SSHS-B282-SUB-2-4	2 - 4 ft	7/29/2015	2.64	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	1.9 J	0.62 J	0.12 J	< 0.018 U	< 0.018 U
South of Athletic Stands	SSHS-B283	SSHS-B283-SUB-2-4	2 - 4 ft	7/16/2015	1.098	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	0.64 J	0.4 J	0.058 J	< 0.019 U	< 0.019 U
South of Athletic Stands	SSHS-B284	SSHS-B284-SUB-2-4	2 - 4 ft	7/29/2015	3.81	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	2.6 J	0.88 J	0.33 J	< 0.018 U	< 0.018 U
South of Athletic Stands	SSHS-B327	SSHS-B327-SUB-2-4	2 - 4 ft	3/3/2016	1.121	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	0.81 J	0.28 J	0.031 J	< 0.019 U	< 0.019 U
Football Field SW	SSHS-B328	SSHS-B328-SUB-2-4	2 - 4 ft	3/3/2016	93.2	< 0.9 U	< 0.9 U	< 0.9 U	< 0.9 U	64 J	25 J	4.2 J	< 0.9 U	< 0.9 U
Main Parking Lot	SSHS-B329	SSHS-B329-SUB-2-4	2 - 4 ft	3/3/2016	0.014	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.014 J	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U
A-Wing	SSHS-B330	SSHS-B330-SUB-2-4	2 - 4 ft	3/9/2016	11.88	< 0.092 U	< 0.092 U	< 0.092 U	< 0.092 U	8.5 J	3.1 J	0.28 J	< 0.092 U	< 0.092 U
South of Athletic Stands	SSHS-B331	SSHS-B331-SUB-2-4	2 - 4 ft	3/3/2016	0.613	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	0.36 J	0.2 J	0.053 J	< 0.019 U	< 0.019 U
South of Athletic Stands	SSHS-B333	SSHS-B333-SUB-2-4	2 - 4 ft	3/3/2016	4.78	< 0.02 U	< 0.02 U	< 0.02 U	< 0.02 U	2.5 J	1.8 J	0.48 J	< 0.02 U	< 0.02 U

Table 9B
PCB results for Subsurface soils Remaining in Place
Former Sperry Remington Site - North Portion
Elmira, NY

					PCBs									
					Total PCBs	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Aroclor 1262	Aroclor 1268
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Subsurface Soil Criteria					10									
NYS Hazardous Waste					50									
Site Location	Location	Sample Name	Sample Depth (ft bgs)	Sample Date										
Main Parking Lot	SSHS-B334	PS-FD-10	2 - 4 ft	3/3/2016	4.64	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	2.5 J	1.7 J	0.44 J	< 0.019 U	< 0.019 U
Main Parking Lot	SSHS-B334	SSHS-B334-SUB-2-4	2 - 4 ft	3/3/2016	3.23	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	1.8 J	1.1 J	0.33 J	< 0.018 U	< 0.018 U
South of Athletic Stands	SSHS-B335	SSHS-B335-SUB-2-4	2 - 4 ft	3/3/2016	7.16	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	5.1 J	1.7 J	0.36 J	< 0.018 U	< 0.018 U
South of Athletic Stands	SSHS-B336	SSHS-B336-SUB-2-4	2 - 4 ft	3/3/2016	3.14	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	2 J	0.94 J	0.2 J	< 0.019 U	< 0.019 U
South of Athletic Stands	SSHS-B336A	SSHS-B336A-SUB-2-4	2 - 4 ft	7/10/2017	13.69	< 0.091 U	< 0.091 U	< 0.091 U	< 0.091 U	8.9 J	4.3 J	0.49 J	< 0.091 U	< 0.091 U
A-Wing	SSHS-B338	SSHS-B338-SUB-2-4	2 - 4 ft	3/9/2016	13.82	< 0.091 U	< 0.091 U	< 0.091 U	< 0.091 U	10 J	3.5 J	0.32 J	< 0.091 U	< 0.091 U
A-Wing	SSHS-B339	SSHS-B339-SUB-2-4	2 - 4 ft	3/9/2016	9.17	< 0.091 U	< 0.091 U	< 0.091 U	< 0.091 U	6.6 J	2.4 J	0.17 J	< 0.091 U	< 0.091 U
A-Wing	SSHS-B340	SSHS-B340-SUB-2-4	2 - 4 ft	3/9/2016	204.6	< 0.95 U	< 0.95 U	< 0.95 U	< 0.95 U	140 J	58 J	6.6 J	< 0.95 U	< 0.95 U
Football Field SW	SSHS-B438	SSHS-B438-SUB-2-4	2 - 4 ft	8/26/2016	71.6	< 0.36 U	< 0.36 U	< 0.36 U	< 0.079 U	53 J	17 J	1.6 J	< 0.36 U	< 0.36 U
Football Field SW	SSHS-B439	SSHS-B439-SUB-2-4	2 - 4 ft	8/26/2016	57.7	< 0.35 U	< 0.35 U	< 0.35 U	< 0.35 U	39 J	17 J	1.7 J	< 0.35 U	< 0.35 U
Football Field SW	SSHS-B440	SSHS-B440-SUB-2-4	2 - 4 ft	8/26/2016	19.84	< 0.18 UJ	< 0.18 U	< 0.18 U	< 0.18 U	14 J	5.1 J	0.74 J	< 0.18 U	< 0.18 U
Football Field SW	SSHS-B443	SSHS-B443-SUB-2-4	2 - 4 ft	9/14/2016	292	< 1.8 U	< 1.8 U	< 1.8 U	< 1.8 U	210 J	72 J	10 J	< 1.8 U	< 1.8 U
Football Field SW	SSHS-B444	SSHS-B444-SUB-2-4	2 - 4 ft	8/26/2016	53.2	< 0.36 UJ	< 0.36 U	< 0.36 U	< 0.36 U	37 J	14 J	2.2 J	< 0.36 U	< 0.36 U
A-Wing	SSHS-B464	SSHS-B464-SUB-2-4	2 - 4 ft	8/29/2016	0.303	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.19 J	0.079 J	0.034 J	< 0.018 U	< 0.018 U
A-Wing	SSHS-B467	SSHS-B467-SUB-2-4	2 - 4 ft	8/29/2016	3765	< 9.2 U	< 9.2 U	< 9.2 U	< 9.2 U	2800 J	900 J	65 J	< 9.2 U	< 9.2 U
South of Athletic Stands	SSHS-B468	SSHS-B468-SUB-2-4	2 - 4 ft	8/24/2016	109.7	< 0.9 U	< 0.9 U	< 0.9 U	< 0.9 U	82 J	24 J	3.7 J	< 0.9 U	< 0.9 U
A-Wing	SSHS-B469	PS-FD-12	2 - 4 ft	8/29/2016	0.375	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.14 J	0.19 J	0.045 J	< 0.018 U	< 0.018 U
A-Wing	SSHS-B469	SSHS-B469-SUB-2-4	2 - 4 ft	8/29/2016	0.222	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	0.17 J	0.052 J	< 0.019 UJ	< 0.019 U	< 0.019 U
A-Wing	SSHS-B477	PS-FD-14	2 - 4 ft	8/29/2016	2.32	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	1.5 J	0.71 J	0.11 J	< 0.018 U	< 0.018 U
A-Wing	SSHS-B477	SSHS-B477-SUB-2-4	2 - 4 ft	8/29/2016	3.74	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	2.5 J	1.1 J	0.14 J	< 0.018 U	< 0.018 U
Tennis Court	SSHS-B577	SSHS-B577-SUB-2-4	2 - 4 ft	2/10/2017	1.3	< 0.018	< 0.018	< 0.018	< 0.018	0.73	0.42	0.15	< 0.018	< 0.018
Tennis Court	SSHS-B578	PS-FD-20	2 - 4 ft	2/15/2017	2.54	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	0.6 J	1.5 J	0.44 J	< 0.019 U	< 0.019 U
Tennis Court	SSHS-B578	SSHS-B578-SUB-2-4	2 - 4 ft	2/15/2017	1.18	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.4 J	0.53 J	0.25 J	< 0.018 U	< 0.018 U
Tennis Court	SSHS-B579	SSHS-B579-SUB-2-4	2 - 4 ft	2/15/2017	ND	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U
Tennis Court	SSHS-B580	SSHS-B580-SUB-2-4	2 - 4 ft	2/10/2017	0.697	< 0.018	< 0.018	< 0.018	< 0.018	0.43	0.18	0.087	< 0.018	< 0.018
Tennis Court	SSHS-B581	SSHS-B581-SUB-2-4	2 - 4 ft	2/14/2017	0.132	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.086 J	0.046 J	< 0.018 U	< 0.018 U	< 0.018 U
Tennis Court	SSHS-B582	SSHS-B582-SUB-2-4	2 - 4 ft	2/14/2017	0.407	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.24 J	0.12 J	0.047 J	< 0.018 U	< 0.018 U
Tennis Court	SSHS-B583	SSHS-B583-SUB-2-4	2 - 4 ft	2/14/2017	0.122	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.053 J	0.045 J	0.024 J	< 0.018 U	< 0.018 U
Tennis Court	SSHS-B584	PS-FD-19	2 - 4 ft	2/14/2017	0.83	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	0.45 J	0.27 J	0.11 J	< 0.019 U	< 0.019 U
Tennis Court	SSHS-B584	SSHS-B584-SUB-2-4	2 - 4 ft	2/14/2017	2.74	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	1.7 J	0.69 J	0.35 J	< 0.018 U	< 0.018 U
Tennis Court	SSHS-B585	SSHS-B585-SUB-2-4	2 - 4 ft	2/10/2017	0.231	< 0.018	< 0.018	< 0.018	< 0.018	0.13	0.068	0.033	< 0.018	< 0.018
Tennis Court	SSHS-B586	SSHS-B586-SUB-2-4	2 - 4 ft	2/10/2017	0.699	< 0.018	< 0.018	< 0.018	< 0.018	0.46	0.16	0.079	< 0.018	< 0.018
Tennis Court	SSHS-B594	SSHS-B594-SUB-2-4	2 - 4 ft	2/15/2017	0.72	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.36	0.24	0.12	< 0.018 U	< 0.018 U
Football Field SW	SSHS-B619	PS-FD-14	2 - 4 ft	2/14/2017	2.072	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	1.5 J	0.49 J	0.082 J	< 0.018 U	< 0.018 U
Football Field SW	SSHS-B619	SSHS-B619-SUB-2-4	2 - 4 ft	2/14/2017	2.52	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	1.8 J	0.61 J	0.11 J	< 0.018 U	< 0.018 U
Football Field SW	SSHS-B620	SSHS-B620-SUB-2-4	2 - 4 ft	2/13/2017	30.8	< 0.18 U	< 0.18 U	< 0.18 U	< 0.18 U	21 J	8.2 J	1.6 J	< 0.18 U	< 0.18 U
A-Wing	SSHS-B623	PS-FD-25	2 - 4 ft	2/16/2017	4.98	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	3.7 J	1.1 J	0.18 J	< 0.018 U	< 0.018 U
A-Wing	SSHS-B623	SSHS-B623-SUB-2-4	2 - 4 ft	2/16/2017	12.9	< 0.18 U	< 0.18 U	< 0.18 U	< 0.18 U	8.2 J	4.2 J	0.5 J	< 0.18 U	< 0.18 U
South of Athletic Stands	SSHS-B624	SSHS-B624-SUB-2-4	2 - 4 ft	2/9/2017	2.376	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	1.6 J	0.68 J	0.096 J	< 0.018 U	< 0.018 U
Main Parking Lot	SSHS-B633	SSHS-B633-SUB-2-4	2 - 4 ft	2/10/2017	14.93	< 0.17 U	< 0.17 U	< 0.17 U	< 0.17 U	11 J	3.3 J	0.63 J	< 0.17 U	< 0.17 U
Main Parking Lot	SSHS-B634	SSHS-B634-SUB-2-4	2 - 4 ft	2/10/2017	0.274	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.16	0.094	0.02	< 0.018 U	< 0.018 U
South of Athletic Stands	SSHS-B649	SSHS-B649-SUB-2-4	2 - 4 ft	2/9/2017	3.48	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	2.6 J	0.88 J		< 0.019 U	< 0.019 U
Football Field SW	SSHS-B650	SSHS-B650-SUB-2-4	2 - 4 ft	2/14/2017	16.67	< 0.18 U	< 0.18 U	< 0.18 U	< 0.18 U	12 J	3.9 J	0.77 J	< 0.18 U	< 0.18 U
Football Field SW	SSHS-B651	SSHS-651-SUB-2-4	2 - 4 ft	2/14/2017	0.606	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.39 J	0.18 J	0.036 J	< 0.018 U	< 0.018 U
Football Field SW	SSHS-B652	SSHS-B652-SUB-2-4	2 - 4 ft	2/14/2017	5.83	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	4.5 J	1.1 J	0.23 J	< 0.018 U	< 0.018 U
A-Wing	SSHS-B663	021617 08:35_SSHS-B663-SUB-2-4	2 - 4 ft	2/15/2017	5.97	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	4.1 J	1.6 J	0.27 J	< 0.018 U	< 0.018 U
Tennis Court	SSHS-B664	SSHS-B664-SUB-2-4	2 - 4 ft	2/15/2017	0.521	< 0.019	< 0.019	< 0.019	< 0.019	0.25	0.21	0.061	< 0.019	< 0.019
Tennis Court	SSHS-B674	032217 08:50_SSHS-B674-SUB-2-4	2 - 4 ft	3/21/2017	0.241	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	0.17	0.071	< 0.019 U	< 0.019 U
Tennis Court	SSHS-B677	SSHS-B677-SUB-2-4	2 - 4 ft	3/21/2017	ND	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019
Main Parking Lot	SSHS-B679	032217 08:50_SSHS-B679-SUB-2-4	2 - 4 ft	3/21/2017	11.85	< 0.092 U,F1	< 0.092 U	< 0.092 U	< 0.092 U	8.8	2.4	0.65	< 0.092 U	< 0.092 U
Main Parking Lot	SSHS-B680	032117 09:20_SSHS-B680-SUB-2-4	2 - 4 ft	3/20/2017	0.259	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.19	0.054	0.015 J	< 0.018 U	< 0.018 U
Main Parking Lot	SSHS-B681	032117 09:20_SSHS-B681-SUB-2-4	2 - 4 ft	3/20/2017	0.258	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	0.17	0.068	0.02	< 0.019 U	< 0.019 U
A-Wing	SSHS-B688	032217 08:50_PS-FD-4	2 - 4 ft	3/21/2017	2.228	< 0.018	< 0.018	< 0.018	< 0.018	1.6	0.53	0.098	< 0.018	< 0.018
A-Wing	SSHS-B688	032217 08:50_SSHS-B688-SUB-2-4	2 - 4 ft	3/21/2017	2.93	< 0.018	< 0.018	< 0.018	< 0.018	2.3	0.5	0.13	< 0.018	< 0.018
A-Wing	SSHS-B689	032417 08:45_SSHS-B689-SUB-2-4	2 - 4 ft	3/23/2017	0.397	< 0.019	< 0.019	< 0.019	< 0.019	0.27	0.1	0.027	< 0.019	< 0.019
Main Parking Lot	SSHS-B692	032117 09:20_SSHS-B692-SUB-2-4	2 - 4 ft	3/20/2017	0.563	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	0.37	0.14	0.053	< 0.019 U	< 0.019 U
Main Parking Lot	SSHS-B696	032117 09:20_SSHS-B696-SUB-2-4	2 - 4 ft	3/20/2017	2.1	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	1.3	0.52	0.28	< 0.018 U	< 0.018 U
Main Parking Lot	SSHS-B697	032217 08:50_SSHS-B697-SUB-2-4	2 - 4 ft	3/21/2017	153.5	< 1.9 U	< 1.9 U	< 1.9 U	< 1.9 U	110	38	5.5	< 1.9 U	< 1.9 U
Main Parking Lot	SSHS-B698	032117 09:20_SSHS-B698-SUB-2-4	2 - 4 ft	3/20/2017	0.777	< 0.02 U	< 0.02 U	< 0.02 U	< 0.02 U	0.55	0.17	0.057	< 0.02 U	< 0.02 U

Table 9B
PCB results for Subsurface soils Remaining in Place
Former Sperry Remington Site - North Portion
Elmira, NY

					PCBs									
					Total PCBs mg/kg	**Aroclor 1016** mg/kg	**Aroclor 1221** mg/kg	**Aroclor 1232** mg/kg	**Aroclor 1242** mg/kg	**Aroclor 1248** mg/kg	**Aroclor 1254** mg/kg	**Aroclor 1260** mg/kg	**Aroclor 1262** mg/kg	**Aroclor 1268** mg/kg
Subsurface Soil Criteria					10									
NYS Hazardous Waste					50									
Site Location	Location	Sample Name	Sample Depth (ft bgs)	Sample Date										
Main Parking Lot	SSHS-B699	032217 08:50_SSHS-B699-SUB-2-4	2 - 4 ft	3/21/2017	0.051	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.028	0.023	< 0.018 U	< 0.018 U	< 0.018 U
A-Wing	SSHS-B702	032217 08:50_SSHS-B702-SUB-2-4	2 - 4 ft	3/21/2017	0.088	< 0.018	< 0.018	< 0.018	< 0.018	0.063	0.025	< 0.018	< 0.018	< 0.018
A-Wing	SSHS-B703	032417 08:45_SSHS-B703-SUB-2-4	2 - 4 ft	3/23/2017	0.336	< 0.018	< 0.018	< 0.018	< 0.018	0.18	0.12	0.036	< 0.018	< 0.018
Main Parking Lot	SSHS-B704	032117 09:20_SSHS-B704-SUB-2-4	2 - 4 ft	3/20/2017	0.661	< 0.02 U,F1	< 0.02 U	< 0.02 U	< 0.02 U	0.49	0.12	0.051	< 0.02 U	< 0.02 U
Main Parking Lot	SSHS-B720	SSHS-B720-SUB-2-4	2 - 4 ft	4/12/2017	0.112	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	0.056	0.04	0.016 J	< 0.019 U	< 0.019 U
Main Parking Lot	SSHS-B721	SSHS-B721-SUB-2-4	2 - 4 ft	4/12/2017	0.569	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	0.32	0.21	0.039	< 0.019 U	< 0.019 U
Main Parking Lot	SSHS-B722	SSHS-B722-SUB-2-4	2 - 4 ft	4/12/2017	0.046	< 0.017 U	< 0.017 U	< 0.017 U	< 0.017 U	0.028	0.018	< 0.017 U	< 0.017 U	< 0.017 U
South of Athletic Stands	SSHS-B739	SSHS-B739-SUB-2-4	2 - 4 ft	4/12/2017	117.4	< 0.94 U	< 0.94 U	< 0.94 U	< 0.94 U	77	36	4.4	< 0.94 U	< 0.94 U
A-Wing	SSHS-B740	PS-FD-4	2 - 4 ft	4/13/2017	9.89	< 0.089 U	< 0.089 U	< 0.089 U	< 0.089 U	6	3.2	0.69	< 0.089 U	< 0.089 U
A-Wing	SSHS-B740	SSHS-B740-SUB-2-4	2 - 4 ft	4/13/2017	8.85	< 0.088 U	< 0.088 U	< 0.088 U	< 0.088 U	5.8	2.5	0.55	< 0.088 U	< 0.088 U
A-Wing	SSHS-B744	SSHS-B744-SUB-2-4	2 - 4 ft	4/13/2017	0.312	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.18	0.1	0.032	< 0.018 U	< 0.018 U
Tennis Court	SSHS-B747	SSHS-B747-SUB-2-4	2 - 4 ft	5/22/2017	0.39	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.39	< 0.018 U	< 0.018 U	< 0.018 U
Tennis Court	SSHS-B748	SSHS-B748-SUB-2-4	2 - 4 ft	5/22/2017	0.556	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	0.25	0.26	0.046	< 0.019 U	< 0.019 U
Tennis Court	SSHS-B750	SSHS-B750-SUB-2-4	2 - 4 ft	5/22/2017	0.36	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	0.36	< 0.019 U	< 0.019 U	< 0.019 U
Tennis Court	SSHS-B751	SSHS-B751-SUB-2-4	2 - 4 ft	5/22/2017	0.216	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	0.12	0.073	0.023	< 0.019 U	< 0.019 U
Tennis Court	SSHS-B751	SSHS-B751-SUB-2-4	2 - 4 ft	5/22/2017	0.216	< 0.019	< 0.019	< 0.019	< 0.019	0.12	0.073	0.023	< 0.019	< 0.019
Tennis Court	SSHS-B752	SSHS-B752-SUB-2-4	2 - 4 ft	5/22/2017	0.01	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.01 J	< 0.018 U	< 0.018 U	< 0.018 U
Tennis Court	SSHS-B753	SSHS-B753-SUB-2-4	2 - 4 ft	5/23/2017	2.3	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	1.3	0.78	0.22	< 0.018 U	< 0.018 U
Tennis Court	SSHS-B754	SSHS-B754-SUB-2-4	2 - 4 ft	5/23/2017	2.32	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	1.3	0.79	0.23	< 0.019 U	< 0.019 U
Tennis Court	SSHS-B755	SSHS-B755-SUB-2-4	2 - 4 ft	5/23/2017	1.77	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.97	0.62	0.18	< 0.018 U	< 0.018 U
Tennis Court	SSHS-B756	SSHS-B756-SUB-2-4	2 - 4 ft	5/22/2017	0.399	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.2	0.15	0.049	< 0.018 U	< 0.018 U
Tennis Court	SSHS-B757	SSHS-B757-SUB-2-4	2 - 4 ft	5/22/2017	ND	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U
Tennis Court	SSHS-B758	SSHS-B758-SUB-2-4	2 - 4 ft	5/22/2017	1.06	< 0.017 U	< 0.017 U	< 0.017 U	< 0.017 U	0.46	0.47	0.13	< 0.017 U	< 0.017 U
Tennis Court	SSHS-B760	SSHS-B760-SUB-2-4	2 - 4 ft	5/23/2017	0.419	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.22	0.15	0.049	< 0.018 U	< 0.018 U
Tennis Court	SSHS-B761	SSHS-B761-SUB-2-4	2 - 4 ft	5/22/2017	0.014	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.014 J	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U
Tennis Court	SSHS-B762	SSHS-B762-SUB-2-4	2 - 4 ft	5/23/2017	1.11	< 0.017 U	< 0.017 U	< 0.017 U	< 0.017 U	0.52	0.43	0.16	< 0.017 U	< 0.017 U
Tennis Court	SSHS-B763	SSHS-B763-SUB-2-4	2 - 4 ft	5/23/2017	ND	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U
Tennis Court	SSHS-B765	SSHS-B765-SUB-2-4	2 - 4 ft	5/22/2017	ND	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U
Tennis Court	SSHS-B766	SSHS-B766-SUB-2-4	2 - 4 ft	5/22/2017	0.39	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	0.29	0.1	< 0.019 U	< 0.019 U
Tennis Court	SSHS-B768	SSHS-B768-SUB-2-4	2 - 4 ft	5/22/2017	0.286	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	0.058	0.2	0.028	< 0.019 U	< 0.019 U
Tennis Court	SSHS-B771	SSHS-B771-SUB-2-4	2 - 4 ft	5/22/2017	0.102	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.09	0.012 J	< 0.018 U	< 0.018 U
Tennis Court	SSHS-B772	SSHS-B772-SUB-2-4	2 - 4 ft	5/22/2017	0.188	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.051	0.11	0.027	< 0.018 U	< 0.018 U
Tennis Court	SSHS-B773	SSHS-B773-SUB-2-4	2 - 4 ft	5/22/2017	0.114	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.088	0.026	< 0.018 U	< 0.018 U
Tennis Court	SSHS-B777	SSHS-B777-SUB-2-4	2 - 4 ft	5/23/2017	ND	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U
Tennis Court	SSHS-B778	SSHS-B778-SUB-2-4	2 - 4 ft	5/22/2017	0.0098	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.0098 J	< 0.018 U	< 0.018 U	< 0.018 U
Tennis Court	SSHS-B781	SSHS-B781-SUB-2-4	2 - 4 ft	5/23/2017	2.53	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	1.4	0.89	0.24	< 0.018 U	< 0.018 U
South of Athletic Stands	SSHS-B782	SSHS-B782-SUB-2-4	2 - 4 ft	5/16/2017	306.3	< 2 U	< 2 U	< 2 U	< 2 U	230	69	7.3	< 2 U	< 2 U
South of Athletic Stands	SSHS-B782A	SSHS-B782A-SUB-2-4	2 - 4 ft	7/12/2017	151.9	< 0.93 U	< 0.93 U	< 0.93 U	< 0.93 U	110	38	3.9	< 0.93 U	< 0.93 U
Main Parking Lot	SSHS-B783	SSHS-B783-SUB-2-4	2 - 4 ft	5/17/2017	0.292	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.2 J	0.078 J	0.014 J	< 0.018 U	< 0.018 U
Main Parking Lot	SSHS-B784	SSHS-B784-SUB-2-4	2 - 4 ft	5/17/2017	0.106	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	0.061 J	0.045 J	< 0.019 U	< 0.019 U	< 0.019 U
South of Athletic Stands	SSHS-B790	SSHS-B790-SUB-2-4	2 - 4 ft	5/17/2017	989	< 19 U	< 19 U	< 19 U	< 19 U	730 J	240 J	19 J	< 19 U	< 19 U
South of Athletic Stands	SSHS-B791	PS-FD-2	2 - 4 ft	5/16/2017	32.57	< 0.19 U	< 0.19 U	< 0.19 U	< 0.19 U	24	7.8	0.77	< 0.19 U	< 0.19 U
South of Athletic Stands	SSHS-B791	SSHS-B791-SUB-2-4	2 - 4 ft	5/16/2017	53	< 0.19 U	< 0.19 U	< 0.19 U	< 0.19 U	41	11	1	< 0.19 U	< 0.19 U
South of Athletic Stands	SSHS-B794	SSHS-B794-SUB-2-4	2 - 4 ft	5/16/2017	5.63	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	2.8	2.3	0.53	< 0.019 U	< 0.019 U
South of Athletic Stands	SSHS-B795	SSHS-B795-SUB-2-4	2 - 4 ft	5/16/2017	0.882	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	0.67	0.19	0.022	< 0.019 U	< 0.019 U
Main Parking Lot	SSHS-B795A	SSHS-B795A-SUB-2-4	2 - 4 ft	7/12/2017	1.336	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.91	0.38	0.046	< 0.018 U	< 0.018 U
A-Wing	SSHS-B798	SSHS-B798-SUB-2-4	2 - 4 ft	5/16/2017	0.086	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.054	0.032	< 0.018 U	< 0.018 U	< 0.018 U
A-Wing	SSHS-B798A	PS-FD-6	2 - 4 ft	7/12/2017	0.238	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	0.17	0.068	< 0.019 U	< 0.019 U	< 0.019 U
A-Wing	SSHS-B798A	SSHS-B798A-SUB-2-4	2 - 4 ft	7/12/2017	0.215	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	0.15	0.065	< 0.019 U	< 0.019 U	< 0.019 U
Main Parking Lot	SSHS-B799	SSHS-B799-SUB-2-4	2 - 4 ft	5/17/2017	0.112	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	0.079 J	0.033 J	< 0.019 U	< 0.019 U	< 0.019 U
South of Athletic Stands	SSHS-B800	SSHS-B800-SUB-2-4	2 - 4 ft	5/17/2017	45.2	< 0.36 U	< 0.36 U	< 0.36 U	< 0.36 U	34 J	10 J	1.2 J	< 0.36 U	< 0.36 U
A-Wing	SSHS-B809	SSHS-B809-SUB-2-4	2 - 4 ft	5/15/2017	1.472	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	1	0.39	0.082	< 0.019 U	< 0.019 U
Tennis Court	SSHS-B819	SSHS-B819-SUB-2-4	2 - 4 ft	5/23/2017	ND	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U
Tennis Court	SSHS-B821	SSHS-B821-SUB-2-4	2 - 4 ft	5/23/2017	ND	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U
South of Athletic Stands	SSHS-SE BTM WALL 1	SE BOTTOM WALL 1	2 - 4 ft	7/23/2017	27.42	< 0.18 U	< 0.18 U	< 0.18 U	< 0.18 U	19 J	7.6 J	0.82 J	< 0.18 U	< 0.18 U
South of Athletic Stands	SSHS-SE BTM WALL 2	SE BOTTOM WALL 2	2 - 4 ft	7/23/2017	56.5	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	43 J	12 J	1.5 J	< 0.2 U	< 0.2 U
South of Athletic Stands	SSHS-SE BTM WALL 3	SE BOTTOM WALL 3	2 - 4 ft	7/23/2017	5.191	< 0.02 U	< 0.02 U	< 0.02 U	< 0.02 U	3.7 J	1.4 J	0.091 J	< 0.02 U	< 0.02 U
South of Athletic Stands	SSHS-B70	081514 01:15_SSHS-B70-2-6 (3.5)	2 - 6 ft	8/14/2014	4.1	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	3.9	< 0.018 U	0.2	< 0.018 U	< 0.018 U
Main Parking Lot	SSHS-B73	SSHS-B73-2-6 (4)	2 - 6 ft	8/13/2014	ND	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U

Table 9B
PCB results for Subsurface soils Remaining in Place
Former Sperry Remington Site - North Portion
Elmira, NY

					PCBs									
					Total PCBs	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Aroclor 1262	Aroclor 1268
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Subsurface Soil Criteria					10									
NYS Hazardous Waste					50									
Site Location	Location	Sample Name	Sample Depth (ft bgs)	Sample Date										
Main Parking Lot	SSHS-B74	SSHS-B74-2-6 (5)	2 - 6 ft	8/13/2014	ND	< 0.017 U	< 0.017 U	< 0.017 U	< 0.017 U	< 0.017 U	< 0.017 U	< 0.017 U	< 0.017 U	< 0.017 U
Tennis Court	SSHS-B75	081514 01:15_DUP-14	2 - 6 ft	8/14/2014	ND	< 0.018	< 0.018	< 0.018	< 0.018	< 0.018	< 0.018	< 0.018	< 0.018	< 0.018
Tennis Court	SSHS-B75	SSHS-B75-2-6 (3)	2 - 6 ft	8/14/2014	0.147	< 0.019	< 0.019	< 0.019	< 0.019	0.13	< 0.019	0.017	< 0.019	< 0.019
Tennis Court	SSHS-B76	SSHS-B76-2-6 (5)	2 - 6 ft	8/14/2014	ND	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019	< 0.019
Tennis Court	SSHS-B77	SSHS-B77-2-6 (5)	2 - 6 ft	8/14/2014	ND	< 0.018	< 0.018	< 0.018	< 0.018	< 0.018	< 0.018	< 0.018	< 0.018	< 0.018
Main Parking Lot	SSHS-B78	SSHS-B78-2-6 (3.5)	2 - 6 ft	8/14/2014	ND	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U
Main Parking Lot	SSHS-B79	SSHS-B79-2-6 (4.5)	2 - 6 ft	8/14/2014	ND	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U
Main Parking Lot	SSHS-B80	DUP-15	2 - 6 ft	8/14/2014	ND	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U
Main Parking Lot	SSHS-B80	SSHS-B80-2-6 (5)	2 - 6 ft	8/14/2014	ND	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U
Main Parking Lot	SSHS-B81	DUP-12	2 - 6 ft	8/14/2014	ND	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U
Main Parking Lot	SSHS-B81	SSHS-B81-2-6 (4)	2 - 6 ft	8/14/2014	ND	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U
Main Parking Lot	SSHS-B82	SSHS-B82-2-6 (4)	2 - 6 ft	8/13/2014	ND	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U
Main Parking Lot	SSHS-B83	DUP-11	2 - 6 ft	8/13/2014	ND	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U
Main Parking Lot	SSHS-B83	SSHS-B83-2-6 (5.5)	2 - 6 ft	8/13/2014	ND	< 0.02 U	< 0.02 U	< 0.02 U	< 0.02 U	< 0.02 U	< 0.02 U	< 0.02 U	< 0.02 U	< 0.02 U
Main Parking Lot	SSHS-B84	SSHS-B84-2-6 (4)	2 - 6 ft	8/14/2014	ND	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U
Main Parking Lot	SSHS-B85	SSHS-B85-2-6 (3.5)	2 - 6 ft	8/13/2014	ND	< 0.021 U	< 0.021 U	< 0.021 U	< 0.021 U	< 0.021 U	< 0.021 U	< 0.021 U	< 0.021 U	< 0.021 U
Main Parking Lot	SSHS-B86	SSHS-B86-2-6 (3.5)	2 - 6 ft	8/13/2014	ND	< 0.02 U	< 0.02 U	< 0.02 U	< 0.02 U	< 0.02 U	< 0.02 U	< 0.02 U	< 0.02 U	< 0.02 U
Main Parking Lot	SSHS-B87	SSHS-B87-2-6 (5)	2 - 6 ft	8/14/2014	ND	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U
Main Parking Lot	SSHS-B88	SSHS-B88-2-6 (4)	2 - 6 ft	8/13/2014	ND	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U
Main Parking Lot	SSHS-B89	DUP-09	2 - 6 ft	8/13/2014	ND	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U
Main Parking Lot	SSHS-B89	SSHS-B89-2-6 (5)	2 - 6 ft	8/13/2014	ND	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U
Main Parking Lot	SSHS-B90	DUP-08	2 - 6 ft	8/13/2014	0.11	< 0.02 U	< 0.02 U	< 0.02 U	< 0.02 U	0.093	< 0.02 U	0.017 J	< 0.02 U	< 0.02 U
Main Parking Lot	SSHS-B90	SSHS-B90-2-6 (4)	2 - 6 ft	8/13/2014	0.045	< 0.02 U	< 0.02 U	< 0.02 U	< 0.02 U	0.033	< 0.02 U	0.012 J	< 0.02 U	< 0.02 U
Main Parking Lot	SSHS-B91	SSHS-91-2-6 (5)	2 - 6 ft	8/13/2014	ND	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U
Tennis Court	SSHS-B71	SSHS-B71-2.5-4.5 (3.5)	2.5 - 4.5 ft	8/15/2014	ND	< 0.018	< 0.018	< 0.018	< 0.018	< 0.018	< 0.018	< 0.018	< 0.018	< 0.018
Tennis Court	SSHS-B72	SSHS-B72-3-5 (4)	3 - 5 ft	8/15/2014	ND	< 0.017 U	< 0.017 U	< 0.017 U	< 0.017 U	< 0.017 U	< 0.017 U	< 0.017 U	< 0.017 U	< 0.017 U
A-Wing	SSHS-B15	B23454	4 - 5 ft	5/10/2000	80.1	< 0.039 U	< 0.039 U	< 0.039 U	< 0.039 U	74	< 0.039 U	6.1		
South of Athletic Stands	SSHS-B270	SSHS-B270-SUB-4-5	4 - 5 ft	7/17/2015	20.48	< 0.18 U	< 0.18 U	< 0.18 U	< 0.18 U	14 J	5.8 J	0.68 J	< 0.18 U	< 0.18 U
South of Athletic Stands	SSHS-B282	SSHS-B282-SUB-4-5	4 - 5 ft	7/29/2015	83.1	< 0.89 U	< 0.89 U	< 0.89 U	< 0.89 U	61 J	20 J	2.1 J	< 0.89 U	< 0.89 U
South of Athletic Stands	SSHS-B275	SSHS-B275-SUB-4-5.5	4 - 5.5 ft	7/17/2015	168.7	< 1.8 U	< 1.8 U	< 1.8 U	< 1.8 U	120 J	43 J	5.7 J	< 1.8 U	< 1.8 U
A-Wing	SSHS-B15A	SSHS-B15A-SUB-4-6	4 - 6 ft	7/11/2017	0.482	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.29	0.17	0.022	< 0.018 U	< 0.018 U
A-Wing	SSHS-B15-AA	SSHS-B15-AA-SUB-4-6	4 - 6 ft	7/20/2015	44.3	< 0.38 U	< 0.38 U	< 0.38 U	< 0.38 U	26 J	16 J	2.3 J	< 0.38 U	< 0.38 U
A-Wing	SSHS-B247	SSHS-B247-SUB-4-6	4 - 6 ft	7/20/2015	0.667	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.42 J	0.22 J	0.027 J	< 0.018 U	< 0.018 U
A-Wing	SSHS-B247A	SSHS-B247A-SUB-4-6	4 - 6 ft	7/11/2017	0.014	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.014 J	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U
A-Wing	SSHS-B248	SSHS-B248-SUB-4-6	4 - 6 ft	7/20/2015	5.5	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	3.2 J	1.8 J	0.5 J	< 0.018 U	< 0.018 U
A-Wing	SSHS-B248A	PS-FD-3	4 - 6 ft	7/11/2017	6.23	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	4.1	1.9	0.23	< 0.018 U	< 0.018 U
A-Wing	SSHS-B248A	SSHS-B248A-SUB-4-6	4 - 6 ft	7/11/2017	6.95	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	4.6	2.1	0.25	< 0.019 U	< 0.019 U
A-Wing	SSHS-B252	SSHS-B252-SUB-4-6	4 - 6 ft	7/20/2015	0.732	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.42 J	0.26 J	0.052 J	< 0.018 U	< 0.018 U
A-Wing	SSHS-B255	SSHS-B255-SUB-4-6	4 - 6 ft	7/30/2015	0.297	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	0.18 J	0.098 J	0.019 J	< 0.019 U	< 0.019 U
A-Wing	SSHS-B255A	SSHS-B255A-SUB-4-6	4 - 6 ft	7/12/2017	0.07	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.049	0.021	< 0.018 U	< 0.018 U	< 0.018 U
A-Wing	SSHS-B256	SSHS-B256-SUB-4-6	4 - 6 ft	7/20/2015	90.4	< 0.93 U	< 0.93 U	< 0.93 U	< 0.93 U	63 J	25 J	2.4 J	< 0.93 U	< 0.93 U
A-Wing	SSHS-B257	SSHS-B257-SUB-4-6	4 - 6 ft	7/30/2015	59.1	< 0.38 U	< 0.38 U	< 0.38 U	< 0.38 U	38 J	18 J	3.1 J	< 0.38 U	< 0.38 U
South of Athletic Stands	SSHS-B260	SSHS-B260-SUB-4-6	4 - 6 ft	7/29/2015	98.8	< 1.9 U	< 1.9 U	< 1.9 U	< 1.9 U	83 J	12 J	3.8 J	< 1.9 U	< 1.9 U
South of Athletic Stands	SSHS-B261	SSHS-B261-SUB-4-6	4 - 6 ft	7/17/2015	5.09	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	3.6 J	1.3 J	0.19 J	< 0.019 U	< 0.019 U
South of Athletic Stands	SSHS-B262	CS-FD-#9	4 - 6 ft	7/29/2015	2.878	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	2 J	0.81 J	0.068 J	< 0.019 U	< 0.019 U
South of Athletic Stands	SSHS-B262	SSHS-B262-SUB-4-6	4 - 6 ft	7/29/2015	3.679	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	2.6 J	1 J	0.079 J	< 0.019 U	< 0.019 U
South of Athletic Stands	SSHS-B265	SSHS-B265-SUB-4-6	4 - 6 ft	7/17/2015	2.037	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	1.5 J	0.48 J	0.057 J	< 0.019 U	< 0.019 U
South of Athletic Stands	SSHS-B266	SSHS-B266-SUB-4-6	4 - 6 ft	7/17/2015	64.7	< 0.9 U	< 0.9 U	< 0.9 U	< 0.9 U	44 J	18 J	2.7 J	< 0.9 U	< 0.9 U
Main Parking Lot	SSHS-B267	SSHS-B267-SUB-4-6	4 - 6 ft	7/30/2015	0.1932	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	0.13 J	0.054 J	0.0092 J	< 0.019 U	< 0.019 U
South of Athletic Stands	SSHS-B268	SSHS-B268-SUB-4-6	4 - 6 ft	7/29/2015	0.942	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	0.63 J	0.28 J	0.032 J	< 0.019 U	< 0.019 U
South of Athletic Stands	SSHS-B271	SSHS-B271-SUB-4-6	4 - 6 ft	7/17/2015	58.1	< 0.19 U	< 0.19 U	< 0.19 U	< 0.19 U	42 J	14 J	2.1 J	< 0.19 U	< 0.19 U
South of Athletic Stands	SSHS-B273	SSHS-B273-SUB-4-6	4 - 6 ft	7/29/2015	25.7	< 0.37 U	< 0.37 U	< 0.37 U	< 0.37 U	18 J	6.4 J	1.3 J	< 0.37 U	< 0.37 U
South of Athletic Stands	SSHS-B274	SSHS-B274-SUB-4-6	4 - 6 ft	7/29/2015	11.23	< 0.19 U	< 0.19 U	< 0.19 U	< 0.19 U	8.9 J	1.5 J	0.83 J	< 0.19 U	< 0.19 U
South of Athletic Stands	SSHS-B276	SSHS-B276-SUB-4-6	4 - 6 ft	7/29/2015	74.8	< 0.97 U	< 0.97 U	< 0.97 U	< 0.97 U	65 J	7.4 J	2.4 J	< 0.97 U	< 0.97 U
South of Athletic Stands	SSHS-B277	SSHS-B277-SUB-4-6	4 - 6 ft	7/29/2015	5.89	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	4.4 J	1.3 J	0.19 J	< 0.019 U	< 0.019 U
South of Athletic Stands	SSHS-B278	SSHS-B278-SUB-4-6	4 - 6 ft	7/16/2015	25.7	< 0.18 U	< 0.18 U	< 0.18 U	< 0.18 U	12 J	11 J	2.7 J	< 0.18 U	< 0.18 U
South of Athletic Stands	SSHS-B279	SSHS-B279-SUB-4-6	4 - 6 ft	7/29/2015	41.7	< 0.38 U	< 0.38 U	< 0.38 U	< 0.38 U	27 J	7.9 J	6.8 J	< 0.38 U	< 0.38 U
South of Athletic Stands	SSHS-B280	SSHS-B280-SUB-4-6	4 - 6 ft	7/16/2015	960	< 3.8 U	< 3.8 U	< 3.8 U	< 3.8 U	760 J	150 J	50 J	< 3.8 U	< 3.8 U
South of Athletic Stands	SSHS-B281	PA-FD-#7	4 - 6 ft	7/17/2015	19.8	< 0.095 U	< 0.095 U	< 0.095 U	< 0.095 U	6.3 J	11 J	2.5 J	< 0.095 U	< 0.095 U

Table 9B
PCB results for Subsurface soils Remaining in Place
Former Sperry Remington Site - North Portion
Elmira, NY

					PCBs									
					Total PCBs mg/kg	**Aroclor 1016** mg/kg	**Aroclor 1221** mg/kg	**Aroclor 1232** mg/kg	**Aroclor 1242** mg/kg	**Aroclor 1248** mg/kg	**Aroclor 1254** mg/kg	**Aroclor 1260** mg/kg	**Aroclor 1262** mg/kg	**Aroclor 1268** mg/kg
Subsurface Soil Criteria					10									
NYS Hazardous Waste					50									
Site Location	Location	Sample Name	Sample Depth (ft bgs)	Sample Date										
South of Athletic Stands	SSHS-B281	SSHS-B281-SUB-4-6	4 - 6 ft	7/17/2015	19.6	< 0.19 U	< 0.19 U	< 0.19 U	< 0.19 U	6.4 J	11 J	2.2 J	< 0.19 U	< 0.19 U
South of Athletic Stands	SSHS-B283	PS-FD-#5	4 - 6 ft	7/16/2015	21.54	< 0.37 U	< 0.37 U	< 0.37 U	< 0.37 U	14 J	6.9 J	0.64 J	< 0.37 U	< 0.37 U
South of Athletic Stands	SSHS-B283	SSHS-B283-SUB-4-6	4 - 6 ft	7/16/2015	28.3	< 0.37 U	< 0.37 U	< 0.37 U	< 0.37 U	19 J	7.9 J	1.4 J	< 0.37 U	< 0.37 U
South of Athletic Stands	SSHS-B284	SSHS-B284-SUB-4-6	4 - 6 ft	7/29/2015	9.2	< 0.18 U	< 0.18 U	< 0.18 U	< 0.18 U	6.6 J	2 J	0.6 J	< 0.18 U	< 0.18 U
South of Athletic Stands	SSHS-B284A	SSHS-B284A-SUB-4-6	4 - 6 ft	7/10/2017	6.32	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	2.6 J	3 J	0.72 J	< 0.018 U	< 0.018 U
Football Field SW	SSHS-B321	SSHS-B321-SUB-4-6	4 - 6 ft	3/3/2016	27820	< 95 U	< 95 U	< 95 U	< 95 U	22000 J	5100 J	720 J	< 95 U	< 95 U
South of Athletic Stands	SSHS-B327	SSHS-B327-SUB-4-6	4 - 6 ft	3/3/2016	0.249	< 0.02 U	< 0.02 U	< 0.02 U	< 0.02 U	0.19 J	0.059 J	< 0.02 U	< 0.02 U	< 0.02 U
Football Field SW	SSHS-B328	SSHS-B328-SUB-4-6	4 - 6 ft	3/3/2016	1.86	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	1.2 J	0.59 J	0.07 J	< 0.019 U	< 0.019 U
Main Parking Lot	SSHS-B329	SSHS-B329-SUB-4-6	4 - 6 ft	3/3/2016	0.062	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.049 J	0.013 J	< 0.018 U	< 0.018 U	< 0.018 U
A-Wing	SSHS-B330	SSHS-B330-SUB-4-6	4 - 6 ft	3/9/2016	1.95	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	1.2 J	0.59 J	0.16 J	< 0.019 U	< 0.019 U
South of Athletic Stands	SSHS-B331	PS-FD-9	4 - 6 ft	3/3/2016	1.9	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	0.51 J	0.96 J	0.43 J	< 0.019 U	< 0.019 U
South of Athletic Stands	SSHS-B331	SSHS-B331-SUB-4-6	4 - 6 ft	3/3/2016	2.52	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.62 J	1.3 J	0.6 J	< 0.018 U	< 0.018 U
South of Athletic Stands	SSHS-B332	SSHS-B332-SUB-4-6	4 - 6 ft	3/3/2016	0.381	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	0.25 J	0.11 J	0.021 J	< 0.019 U	< 0.019 U
South of Athletic Stands	SSHS-B333	SSHS-B333-SUB-4-6	4 - 6 ft	3/3/2016	60.2	< 0.39 U	< 0.39 U	< 0.39 U	< 0.39 U	43 J	16 J	1.2 J	< 0.39 U	< 0.39 U
Main Parking Lot	SSHS-B334	SSHS-B334-SUB-4-6	4 - 6 ft	3/3/2016	1.31	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.72 J	0.47 J	0.12 J	< 0.018 U	< 0.018 U
South of Athletic Stands	SSHS-B335	PS-FD-11	4 - 6 ft	3/3/2016	0.851	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.41 J	0.37 J	0.071 J	< 0.018 U	< 0.018 U
South of Athletic Stands	SSHS-B335	SSHS-B335-SUB-4-6	4 - 6 ft	3/3/2016	1.24	< 0.02 U	< 0.02 U	< 0.02 U	< 0.02 U	0.61 J	0.47 J	0.16 J	< 0.02 U	< 0.02 U
South of Athletic Stands	SSHS-B336	SSHS-B336-SUB-4-6	4 - 6 ft	3/3/2016	0.298	< 0.02 U	< 0.02 U	< 0.02 U	< 0.02 U	0.19 J	0.09 J	0.018 J	< 0.02 U	< 0.02 U
A-Wing	SSHS-B337	SSHS-B337-SUB-4-6	4 - 6 ft	3/9/2016	0.027	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	0.027	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U
A-Wing	SSHS-B338	SSHS-B338-SUB-4-6	4 - 6 ft	3/9/2016	3.31	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	2.3 J	0.89 J	0.12 J	< 0.018 U	< 0.018 U
A-Wing	SSHS-B343	SSHS-B343-SUB-4-6	4 - 6 ft	3/9/2016	0.106	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	0.046 J	0.045 J	0.015 J	< 0.019 U	< 0.019 U
South of Athletic Stands	SSHS-B344	SSHS-B344-SUB-4-6	4 - 6 ft	3/3/2016	3.7	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	2.6 J	0.96 J	0.14 J	< 0.019 U	< 0.019 U
A-Wing	SSHS-B345	SSHS-B345-SUB-4-6	4 - 6 ft	3/9/2016	7.55	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	5 J	2.2 J	0.35 J	< 0.018 U	< 0.018 U
Football Field SW	SSHS-B438	SSHS-B438-SUB-4-6	4 - 6 ft	8/26/2016	36.83	< 0.18 U	< 0.18 U	< 0.18 U	< 0.079 U	26 J	9.9 J	0.93 J	< 0.18 U	< 0.18 U
Football Field SW	SSHS-B440	SSHS-B440-SUB-4-6	4 - 6 ft	8/26/2016	26.1	< 0.19 UJ	< 0.19 U	< 0.19 U	< 0.19 U	18 J	7 J	1.1 J	< 0.19 U	< 0.19 U
Football Field SW	SSHS-B443	PS-FD-25	4 - 6 ft	9/14/2016	359	< 1.8 U	< 1.8 U	< 1.8 U	< 1.8 U	260 J	86 J	13 J	< 1.8 U	< 1.8 U
Football Field SW	SSHS-B443	SSHS-B443-SUB-4-6	4 - 6 ft	9/14/2016	2061	< 9 U	< 9 U	< 9 U	< 9 U	1500 J	510 J	51 J	< 9 U	< 9 U
Football Field SW	SSHS-B444	PS-FD-11	4 - 6 ft	8/26/2016	6.59	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	4.3 J	1.8 J	0.49 J	< 0.018 U	< 0.018 U
Football Field SW	SSHS-B444	SSHS-B444-SUB-4-6	4 - 6 ft	8/26/2016	8.92	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	5.5 J	2.7 J	0.72 J	< 0.018 U	< 0.018 U
Main Parking Lot	SSHS-B455	SSHS-B455-SUB-4-6	4 - 6 ft	8/30/2016	ND	< 0.02 U	< 0.02 U	< 0.02 U	< 0.02 U	< 0.02 U	< 0.02 U	< 0.02 U	< 0.02 U	< 0.02 U
Main Parking Lot	SSHS-B456	SSHS-B456-SUB-4-6	4 - 6 ft	8/30/2016	ND	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U
A-Wing	SSHS-B464	SSHS-B464-SUB-4-6	4 - 6 ft	8/29/2016	109.3	< 0.93 U	< 0.93 U	< 0.93 U	< 0.93 U	79 J	27 J	3.3 J	< 0.93 U	< 0.93 U
A-Wing	SSHS-B467	SSHS-B467-SUB-4-6	4 - 6 ft	8/29/2016	308.3	< 0.88 U	< 0.88 U	< 0.88 U	< 0.88 U	220 J	83 J	5.3 J	< 0.88 U	< 0.88 U
South of Athletic Stands	SSHS-B468	SSHS-B468-SUB-4-6	4 - 6 ft	8/24/2016	2.667	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	2 J	0.58 J	0.087 J	< 0.019 U	< 0.019 U
Main Parking Lot	SSHS-B473	SSHS-B473-SUB-4-6	4 - 6 ft	8/30/2016	0.193	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	0.14 J	0.053 J	< 0.019 U	< 0.019 U	< 0.019 U
A-Wing	SSHS-B477	SSHS-B477-SUB-4-6	4 - 6 ft	8/29/2016	94.1	< 0.9 U	< 0.9 U	< 0.9 U	< 0.9 U	67 J	25 J	2.1 J	< 0.9 U	< 0.9 U
A-Wing	SSHS-B479	SSHS-B479-SUB-4-6	4 - 6 ft	8/29/2016	14.48	< 0.091 U	< 0.091 U	< 0.091 U	< 0.091 U	9.3 J	4.7 J	0.48 J	< 0.091 U	< 0.091 U
Tennis Court	SSHS-B586	SSHS-B586-SUB-4-6	4 - 6 ft	2/10/2017	0.095	< 0.018	< 0.018	< 0.018	< 0.018	0.07	0.025	< 0.018	< 0.018	< 0.018
Tennis Court	SSHS-B590	SSHS-B590-SUB-4-6	4 - 6 ft	2/15/2017	ND	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U
Football Field SW	SSHS-B619	SSHS-B619-SUB-4-6	4 - 6 ft	2/14/2017	1.026	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.71 J	0.27 J	0.046 J	< 0.018 U	< 0.018 U
Football Field SW	SSHS-B620	SSHS-B620-SUB-4-6	4 - 6 ft	2/13/2017	13.2	< 0.19 U	< 0.19 U	< 0.19 U	< 0.19 U	9.2 J	3.4 J	0.6 J	< 0.19 U	< 0.19 U
A-Wing	SSHS-B622	SSHS-B622-SUB-4-6	4 - 6 ft	2/16/2017	22.78	< 0.18 U	< 0.18 U	< 0.18 U	< 0.18 U	17 J	4.9 J	0.88 J	< 0.18 U	< 0.18 U
A-Wing	SSHS-B623	SSHS-B623-SUB-4-6	4 - 6 ft	2/16/2017	1.515	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	1.1 J	0.34 J	0.075 J	< 0.019 U	< 0.019 U
South of Athletic Stands	SSHS-B624	SSHS-B624-SUB-4-6	4 - 6 ft	2/9/2017	0.47	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	0.29 J	0.16 J	0.02 J	< 0.019 U	< 0.019 U
Main Parking Lot	SSHS-B632	SSHS-B632-SUB-4-6	4 - 6 ft	2/10/2017	ND	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U
Main Parking Lot	SSHS-B632A	PS-FD-2	4 - 6 ft	7/11/2017	ND	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U
Main Parking Lot	SSHS-B632A	SSHS-B632A-SUB-4-6	4 - 6 ft	7/11/2017	ND	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U
Main Parking Lot	SSHS-B633	PS-FD-5	4 - 6 ft	2/10/2017	10.47	< 0.09 U	< 0.09 U	< 0.09 U	< 0.09 U	7.3 J	2.8 J	0.37 J	< 0.09 U	< 0.09 U
Main Parking Lot	SSHS-B633	SSHS-B633-SUB-4-6	4 - 6 ft	2/10/2017	4.6	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	3.6 J	0.82 J	0.18 J	< 0.018 U	< 0.018 U
Main Parking Lot	SSHS-B634	SSHS-B634-SUB-4-6	4 - 6 ft	2/10/2017	0.00207	< 0.0002 U	< 0.0002 U	< 0.0002 U	< 0.0002 U	0.0015	0.00057	< 0.0002 U	< 0.0002 U	< 0.0002 U
Football Field SW	SSHS-B650	SSHS-B650-SUB-4-6	4 - 6 ft	2/14/2017	2.92	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	2 J	0.78 J	0.14 J	< 0.018 U	< 0.018 U
Football Field SW	SSHS-B651	SSHS-B651-SUB-4-6	4 - 6 ft	2/14/2017	0.64	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.42 J	0.19 J	0.03 J	< 0.018 U	< 0.018 U
Football Field SW	SSHS-B652	SSHS-B652-SUB-4-6	4 - 6 ft	2/14/2017	195.7	< 1.9 U	< 1.9 U	< 1.9 U	< 1.9 U	150 J	39 J	6.7 J	< 1.9 U	< 1.9 U
Football Field SW	SSHS-B653	SSHS-B653-SUB-4-6	4 - 6 ft	2/14/2017	13.22	< 0.19 U	< 0.19 U	< 0.19 U	< 0.19 U	9.9 J	2.8 J	0.52 J	< 0.19 U	< 0.19 U
A-Wing	SSHS-B654	SSHS-B654-SUB-4-6	4 - 6 ft	2/16/2017	0.951	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	0.68 J	0.23 J	0.041 J	< 0.019 U	< 0.019 U
South of Athletic Stands	SSHS-B655	SSHS-B655-SUB-4-6	4 - 6 ft	2/13/2017	7.26	< 0.091 U	< 0.091 U	< 0.091 U	< 0.091 U	5 J	1.9 J	0.36 J	< 0.091 U	< 0.091 U
A-Wing	SSHS-B660	SSHS-B660-SUB-4-6	4 - 6 ft	2/15/2017	2.09	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	1.5 J	0.48 J	0.11 J	< 0.019 U	< 0.019 U
Football Field SW	SSHS-B661	SSHS-B661-SUB-4-6	4 - 6 ft	2/13/2017	3.44	< 0.02 U	< 0.02 U	< 0.02 U	< 0.02 U	2.4 J	0.82 J	0.22 J	< 0.02 U	< 0.02 U
A-Wing	SSHS-B662	021617 08:35_PS-FD-23	4 - 6 ft	2/15/2017	0.739	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	0.54 J	0.16 J	0.039 J	< 0.019 U	< 0.019 U

Table 9B
PCB results for Subsurface soils Remaining in Place
Former Sperry Remington Site - North Portion
Elmira, NY

					PCBs									
					Total PCBs	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Aroclor 1262	Aroclor 1268
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Subsurface Soil Criteria					10									
NYS Hazardous Waste					50									
Site Location	Location	Sample Name	Sample Depth (ft bgs)	Sample Date										
A-Wing	SSHS-B662	021617 08:35_SSHS-B662-SUB-4-6	4 - 6 ft	2/15/2017	1.645	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	1.2 J	0.36 J	0.085 J	< 0.019 U	< 0.019 U
Main Parking Lot	SSHS-B679	032217 08:50_SSHS-B679-SUB-4-6	4 - 6 ft	3/21/2017	1.788	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	1.3	0.4	0.088	< 0.018 U	< 0.018 U
Main Parking Lot	SSHS-B680	032117 09:20_SSHS-B680-SUB-4-6	4 - 6 ft	3/20/2017	0.127	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.095	0.032	< 0.018 U	< 0.018 U	< 0.018 U
Main Parking Lot	SSHS-B681	032117 09:20_SSHS-B681-SUB-4-6	4 - 6 ft	3/20/2017	0.133	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	0.076	0.043	0.014 J	< 0.019 U	< 0.019 U
A-Wing	SSHS-B689	032417 08:45_SSHS-B689-SUB-4-6	4 - 6 ft	3/23/2017	0.053	< 0.019	< 0.019	< 0.019	< 0.019	0.026	0.014	0.013	< 0.019	< 0.019
A-Wing	SSHS-B690	032417 08:45_SSHS-B690-SUB-4-6	4 - 6 ft	3/23/2017	19.11	< 0.18 U	< 0.18 U	< 0.18 U	< 0.18 U	13	5.6	0.51	< 0.18 U	< 0.18 U
A-Wing	SSHS-B695	032417 08:45_PS-FD-9	4 - 6 ft	3/23/2017	4.17	< 0.018	< 0.018	< 0.018	< 0.018	2.8	1.2	0.17	< 0.018	< 0.018
A-Wing	SSHS-B695	032417 08:45_SSHS-B695-SUB-4-6	4 - 6 ft	3/23/2017	0.169	< 0.018	< 0.018	< 0.018	< 0.018	0.13	0.039	< 0.018	< 0.018	< 0.018
Main Parking Lot	SSHS-B696	032117 09:20_SSHS-B696-SUB-4-6	4 - 6 ft	3/20/2017	2.65	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	1.6	0.86	0.19	< 0.019 U	< 0.019 U
Main Parking Lot	SSHS-B697	032217 08:50_SSHS-B697-SUB-4-6	4 - 6 ft	3/21/2017	4.54	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	3.5	0.88	0.16	< 0.019 U	< 0.019 U
Main Parking Lot	SSHS-B699	032217 08:50_SSHS-B699-SUB-4-6	4 - 6 ft	3/21/2017	0.202	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	0.12	0.057	0.025	< 0.019 U	< 0.019 U
South of Athletic Stands	SSHS-B707	032317 09:00_PS-FD-8	4 - 6 ft	3/22/2017	7.53	< 0.097 U	< 0.097 U	< 0.097 U	< 0.097 U	5.4	1.8	0.33	< 0.097 U	< 0.097 U
South of Athletic Stands	SSHS-B707	032317 09:00_SSHS-B707-SUB-4-6	4 - 6 ft	3/22/2017	11.49	< 0.093 U	< 0.093 U	< 0.093 U	< 0.093 U	8.3	2.7	0.49	< 0.093 U	< 0.093 U
Main Parking Lot	SSHS-B720	SSHS-B720-SUB-4-6	4 - 6 ft	4/12/2017	0.135	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	0.077	0.045	0.013 J	< 0.019 U	< 0.019 U
Main Parking Lot	SSHS-B721	PS-FD-2	4 - 6 ft	4/12/2017	0.133	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	0.089	0.044	< 0.019 U	< 0.019 U	< 0.019 U
Main Parking Lot	SSHS-B721	SSHS-B721-SUB-4-6	4 - 6 ft	4/12/2017	0.128	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.078	0.05	< 0.018 U	< 0.018 U	< 0.018 U
Main Parking Lot	SSHS-B722	SSHS-B722-SUB-4-6	4 - 6 ft	4/12/2017	0.083	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.055	0.028	< 0.018 U	< 0.018 U	< 0.018 U
South of Athletic Stands	SSHS-B739	SSHS-B739-SUB-4-6	4 - 6 ft	4/12/2017	3.95	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	2.7	1.1	0.15	< 0.019 U	< 0.019 U
South of Athletic Stands	SSHS-B791	SSHS-B791-SUB-4-6	4 - 6 ft	5/16/2017	31.05	< 0.19 U	< 0.19 U	< 0.19 U	< 0.19 U	23	7.1	0.95	< 0.19 U	< 0.19 U
A-Wing	SSHS-B793	SSHS-B793-SUB-4-6	4 - 6 ft	5/15/2017	1308	< 9.6 U	< 9.6 U	< 9.6 U	< 9.6 U	990	260	58	< 9.6 U	< 9.6 U
South of Athletic Stands	SSHS-B794	SSHS-B794-SUB-4-6	4 - 6 ft	5/16/2017	27.9	< 0.18 U	< 0.18 U	< 0.18 U	< 0.18 U	17	7.9	3	< 0.18 U	< 0.18 U
South of Athletic Stands	SSHS-B795	SSHS-B795-SUB-4-6	4 - 6 ft	5/16/2017	0.352	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	0.28	0.072	< 0.019 U	< 0.019 U	< 0.019 U
South of Athletic Stands	SSHS-B796	SSHS-B796-SUB-4-6	4 - 6 ft	5/16/2017	14.02	< 0.096 U	< 0.096 U	< 0.096 U	< 0.096 U	10	3.6	0.42	< 0.096 U	< 0.096 U
South of Athletic Stands	SSHS-B797	SSHS-B797-SUB-4-6	4 - 6 ft	5/16/2017	11.45	< 0.19 U	< 0.19 U	< 0.19 U	< 0.19 U	6.5	4	0.95	< 0.19 U	< 0.19 U
A-Wing	SSHS-B797A	SSHS-B797A-SUB-4-6	4 - 6 ft	7/13/2017	59	< 0.36 U	< 0.36 U	< 0.36 U	< 0.36 U	17	42	< 0.36 U	< 0.36 U	< 0.36 U
South of Athletic Stands	SSHS-B800	SSHS-B800-SUB-4-6	4 - 6 ft	5/17/2017	695	< 9.2 U	< 9.2 U	< 9.2 U	< 9.2 U	540 J	140 J	15 J	< 9.2 U	< 9.2 U
A-Wing	SSHS-B801	SSHS-B801-SUB-4-6	4 - 6 ft	5/17/2017	64.4	< 0.19 U	< 0.19 U	< 0.19 U	< 0.19 U	43 J	19 J	2.4 J	< 0.19 U	< 0.19 U
A-Wing	SSHS-B803	SSHS-B803-SUB-4-6	4 - 6 ft	5/16/2017	3.92	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	2.8	1	0.12	< 0.019 U	< 0.019 U
A-Wing	SSHS-B804	SSHS-B804-SUB-4-6	4 - 6 ft	5/16/2017	0.232	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	0.17	0.062	< 0.019 U	< 0.019 U	< 0.019 U
A-Wing	SSHS-B804A	SSHS-B804A-SUB-4-6	4 - 6 ft	7/11/2017	0.129	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	0.08	0.049	< 0.019 U	< 0.019 U	< 0.019 U
A-Wing	SSHS-B805	SSHS-B805-SUB-4-6	4 - 6 ft	5/17/2017	0.983	< 0.02 U	< 0.02 U	< 0.02 U	< 0.02 U	0.72 J	0.24 J	0.023 J	< 0.02 U	< 0.02 U
A-Wing	SSHS-B805A	SSHS-B805A-SUB-4-6	4 - 6 ft	7/12/2017	2.81	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	2	0.71	0.1	< 0.019 U	< 0.019 U
A-Wing	SSHS-B807	SSHS-B807-SUB-4-6	4 - 6 ft	5/15/2017	2.565	< 0.02 U	< 0.02 U	< 0.02 U	< 0.02 U	2	0.49	0.075	< 0.02 U	< 0.02 U
South of Athletic Stands	SSHS-B808	SSHS-B808-SUB-4-6	4 - 6 ft	5/16/2017	26.1	< 0.19 U	< 0.19 U	< 0.19 U	< 0.19 U	15	10	1.1	< 0.19 U	< 0.19 U
Tennis Court	SSHS-B819	SSHS-B819-SUB-4-6	4 - 6 ft	5/23/2017	ND	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U
South of Athletic Stands	SSHS-B820	PS-FD-17	4 - 6 ft	5/23/2017	0.759	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	0.43	0.28	0.049	< 0.019 U	< 0.019 U
South of Athletic Stands	SSHS-B820	SSHS-B820-SUB-4-6	4 - 6 ft	5/23/2017	0.774	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	0.49	0.25	0.034	< 0.019 U	< 0.019 U
Tennis Court	SSHS-B821	SSHS-B821-SUB-4-6	4 - 6 ft	5/23/2017	ND	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U
South of Athletic Stands	SSHS-SS12-CA	SSHS-SS12-CA-SUB-4-6	4 - 6 ft	7/17/2015	12.48	< 0.097 U	< 0.097 U	< 0.097 U	< 0.097 U	8.6 J	3.3 J	0.58 J	< 0.097 U	< 0.097 U
Tennis Court	SSHS-B14	B14_10 May 00_5-6	5 - 6 ft	5/10/2000	ND	< 0.036 U	< 0.036 U	< 0.036 U	< 0.036 U	< 0.036 U	< 0.036 U	< 0.036 U		
South of Athletic Stands	SSHS-B70	081514 01:15_SSHS-B70-6-10 (7.5)	6 - 10 ft	8/14/2014	41.3	< 0.93 U	< 0.93 U	< 0.93 U	< 0.93 U	39	< 0.93 U	2.3	< 0.93 U	< 0.93 U
Tennis Court	SSHS-B72	SSHS-B72-6-10 (8)	6 - 10 ft	8/15/2014	ND	< 0.02 U	< 0.02 U	< 0.02 U	< 0.02 U	< 0.02 U	< 0.02 U	< 0.02 U	< 0.02 U	< 0.02 U
Main Parking Lot	SSHS-B73	DUP-07	6 - 10 ft	8/13/2014	0.0178	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.0096 J	< 0.018 U	0.0082 J	< 0.018 U	< 0.018 U
Main Parking Lot	SSHS-B73	SSHS-B73-6-10 (8)	6 - 10 ft	8/13/2014	0.058	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.046	< 0.018 U	0.012 J	< 0.018 U	< 0.018 U
Main Parking Lot	SSHS-B74	SSHS-B74-6-10 (7.5)	6 - 10 ft	8/13/2014	ND	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U
Tennis Court	SSHS-B75	SSHS-B75-6-10 (8)	6 - 10 ft	8/14/2014	ND	< 0.018	< 0.018	< 0.018	< 0.018	< 0.018	< 0.018	< 0.018	< 0.018	< 0.018
Tennis Court	SSHS-B76	SSHS-B76-6-10 (8)	6 - 10 ft	8/14/2014	ND	< 0.018	< 0.018	< 0.018	< 0.018	< 0.018	< 0.018	< 0.018	< 0.018	< 0.018
Tennis Court	SSHS-B77	081514 01:15_DUP-19	6 - 10 ft	8/14/2014	ND	< 0.018	< 0.018	< 0.018	< 0.018	< 0.018	< 0.018	< 0.018	< 0.018	< 0.018
Tennis Court	SSHS-B77	SSHS-B77-6-10 (8)	6 - 10 ft	8/14/2014	ND	< 0.018	< 0.018	< 0.018	< 0.018	< 0.018	< 0.018	< 0.018	< 0.018	< 0.018
Main Parking Lot	SSHS-B78	SSHS-B78-6-10 (8)	6 - 10 ft	8/14/2014	ND	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U
Main Parking Lot	SSHS-B79	SSHS-B79-6-10 (8)	6 - 10 ft	8/14/2014	ND	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U
Main Parking Lot	SSHS-B80	SSHS-B80-6-10 (8)	6 - 10 ft	8/14/2014	ND	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U
Main Parking Lot	SSHS-B81	SSHS-B81-6-10 (8)	6 - 10 ft	8/14/2014	ND	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U
Main Parking Lot	SSHS-B82	SSHS-B82-6-10 (8)	6 - 10 ft	8/13/2014	ND	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U
Main Parking Lot	SSHS-B83	SSHS-B83-6-10 (8)	6 - 10 ft	8/13/2014	ND	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U
Main Parking Lot	SSHS-B84	DUP-13	6 - 10 ft	8/14/2014	ND	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U
Main Parking Lot	SSHS-B84	SSHS-B84-6-10 (8)	6 - 10 ft	8/14/2014	ND	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U
Main Parking Lot	SSHS-B85	SSHS-B85-6-10 (8)	6 - 10 ft	8/13/2014	ND	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U
Main Parking Lot	SSHS-B86	SSHS-B86-6-10 (8)	6 - 10 ft	8/13/2014	ND	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U

Table 9B
PCB results for Subsurface soils Remaining in Place
Former Sperry Remington Site - North Portion
Elmira, NY

					PCBs									
					Total PCBs	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Aroclor 1262	Aroclor 1268
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Subsurface Soil Criteria					10									
NYS Hazardous Waste					50									
Site Location	Location	Sample Name	Sample Depth (ft bgs)	Sample Date										
Main Parking Lot	SSHS-B87	SSHS-B87-6-10 (8)	6 - 10 ft	8/14/2014	ND	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U
Main Parking Lot	SSHS-B88	SSHS-B88-6-10 (8)	6 - 10 ft	8/13/2014	ND	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U
Main Parking Lot	SSHS-B89	SSHS-B89-6-10 (7.5)	6 - 10 ft	8/13/2014	ND	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U
Main Parking Lot	SSHS-B90	SSHS-B90-6-10 (9)	6 - 10 ft	8/13/2014	ND	< 0.02 U	< 0.02 U	< 0.02 U	< 0.02 U	< 0.02 U	< 0.02 U	< 0.02 U	< 0.02 U	< 0.02 U
Main Parking Lot	SSHS-B91	SSHS-91-6-10 (8)	6 - 10 ft	8/13/2014	ND	< 0.017 U	< 0.017 U	< 0.017 U	< 0.017 U	< 0.017 U	< 0.017 U	< 0.017 U	< 0.017 U	< 0.017 U
A-Wing	SSHS-B15A	SSHS-B15A-SUB-6-8	6 - 8 ft	7/11/2017	ND	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U
A-Wing	SSHS-B15-AA	SSHS-B15-AA-SUB-6-8	6 - 8 ft	7/20/2015	0.0941	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.061 J	0.027 J	0.0061 J	< 0.018 U	< 0.018 U
A-Wing	SSHS-B247	SSHS-B247-SUB-6-8	6 - 8 ft	7/20/2015	0.0934	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.066 J	0.023 J	0.0044 J	< 0.018 U	< 0.018 U
A-Wing	SSHS-B248	SSHS-B248-SUB-6-8	6 - 8 ft	7/20/2015	0.915	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	0.085 J	0.25 J	0.58 J	< 0.019 U	< 0.019 U
A-Wing	SSHS-B252	SSHS-B252-SUB-6-8	6 - 8 ft	7/20/2015	ND	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U
A-Wing	SSHS-B255	SSHS-B255-SUB-6-8	6 - 8 ft	7/30/2015	0.005	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.005 J	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U
A-Wing	SSHS-B255A	SSHS-B255A-SUB-6-8	6 - 8 ft	7/12/2017	ND	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U
A-Wing	SSHS-B256	SSHS-B256-SUB-6-8	6 - 8 ft	7/20/2015	0.0863	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.053 J	0.026 J	0.0073 J	< 0.018 U	< 0.018 U
A-Wing	SSHS-B257	SSHS-B257-SUB-6-8	6 - 8 ft	7/30/2015	25.3	< 0.18 U	< 0.18 U	< 0.18 U	< 0.18 U	16 J	8 J	1.3 J	< 0.18 U	< 0.18 U
South of Athletic Stands	SSHS-B260	SSHS-B260-SUB-6-8	6 - 8 ft	7/29/2015	1167	< 4 U	< 4 U	< 4 U	< 4 U	1000 J	130 J	37 J	< 4 U	< 4 U
South of Athletic Stands	SSHS-B261	SSHS-B261-SUB-6-8	6 - 8 ft	7/17/2015	ND	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U
South of Athletic Stands	SSHS-B262	SSHS-B262-SUB-6-8	6 - 8 ft	7/29/2015	0.0237	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.016 J	0.0077 J	< 0.018 U	< 0.018 U	< 0.018 U
South of Athletic Stands	SSHS-B265	SSHS-B265-SUB-6-8	6 - 8 ft	7/17/2015	ND	< 0.02 U	< 0.02 U	< 0.02 U	< 0.02 U	< 0.02 U	< 0.02 U	< 0.02 U	< 0.02 U	< 0.02 U
South of Athletic Stands	SSHS-B266	SSHS-B266-SUB-6-8	6 - 8 ft	7/17/2015	247	< 1.9 U	< 1.9 U	< 1.9 U	< 1.9 U	170 J	66 J	11 J	< 1.9 U	< 1.9 U
Main Parking Lot	SSHS-B267	SSHS-B267-SUB-6-8	6 - 8 ft	7/30/2015	ND	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U
South of Athletic Stands	SSHS-B268	SSHS-B268-SUB-6-8	6 - 8 ft	7/29/2015	ND	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U
South of Athletic Stands	SSHS-B271	SSHS-B271-SUB-6-8	6 - 8 ft	7/17/2015	8.83	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	5.9 J	2.5 J	0.43 J	< 0.018 U	< 0.018 U
South of Athletic Stands	SSHS-B273	SSHS-B273-SUB-6-8	6 - 8 ft	7/29/2015	0.202	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	0.084 J	0.099 J	0.019 U	< 0.019 U	< 0.019 U
South of Athletic Stands	SSHS-B274	SSHS-B274-SUB-6-8	6 - 8 ft	7/29/2015	0.0076	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	0.0076 J	< 0.019 U	< 0.019 U
South of Athletic Stands	SSHS-B276	SSHS-B276-SUB-6-8	6 - 8 ft	7/29/2015	73.6	< 0.95 U	< 0.95 U	< 0.95 U	< 0.95 U	62 J	9.4 J	2.2 J	< 0.95 U	< 0.95 U
South of Athletic Stands	SSHS-B277	SSHS-B277-SUB-6-8	6 - 8 ft	7/29/2015	21.7	< 0.37 U	< 0.37 U	< 0.37 U	< 0.37 U	16 J	3.5 J	2.2 J	< 0.37 U	< 0.37 U
South of Athletic Stands	SSHS-B278	SSHS-B278-SUB-6-8	6 - 8 ft	7/16/2015	29.3	< 0.36 U	< 0.36 U	< 0.36 U	< 0.36 U	14 J	12 J	3.3 J	< 0.36 U	< 0.36 U
South of Athletic Stands	SSHS-B279	CS-FD-#11	6 - 8 ft	7/29/2015	0.11	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.11	< 0.018 U	< 0.018 U
South of Athletic Stands	SSHS-B279	SSHS-B279-SUB-6-8	6 - 8 ft	7/29/2015	0.088	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.023 J	0.065 J	< 0.018 U	< 0.018 U
South of Athletic Stands	SSHS-B280	SSHS-B280-SUB-6-8	6 - 8 ft	7/16/2015	6.46	< 0.021 U	< 0.021 U	< 0.021 U	< 0.021 U	4.1 J	2 J	0.36 J	< 0.021 U	< 0.021 U
South of Athletic Stands	SSHS-B281	SSHS-B281-SUB-6-8	6 - 8 ft	7/17/2015	0.329	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	0.25 J	0.079 J	< 0.019 U	< 0.019 U
South of Athletic Stands	SSHS-B283	SSHS-B283-SUB-6-8	6 - 8 ft	7/16/2015	47.6	< 0.38 U	< 0.38 U	< 0.38 U	< 0.38 U	31 J	15 J	1.6 J	< 0.38 U	< 0.38 U
South of Athletic Stands	SSHS-B284	SSHS-B284-SUB-6-8	6 - 8 ft	7/29/2015	3.51	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	2.3 J	0.81 J	0.4 J	< 0.018 U	< 0.018 U
South of Athletic Stands	SSHS-B284A	PS-FD-1	6 - 8 ft	7/10/2017	ND	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U
South of Athletic Stands	SSHS-B284A	SSHS-B284A-SUB-6-8	6 - 8 ft	7/10/2017	ND	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U
Main Parking Lot	SSHS-B329	SSHS-B329-SUB-6-8	6 - 8 ft	3/3/2016	ND	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U
A-Wing	SSHS-B330	SSHS-B330-SUB-6-8	6 - 8 ft	3/9/2016	42.3	< 0.37 U	< 0.37 U	< 0.37 U	< 0.37 U	30 J	11 J	1.3 J	< 0.37 U	< 0.37 U
A-Wing	SSHS-B330A	SSHS-B330A-SUB-6-8	6 - 8 ft	7/13/2017	4.69	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	2.9	1.6	0.19	< 0.018 U	< 0.018 U
South of Athletic Stands	SSHS-B331	SSHS-B331-SUB-6-8	6 - 8 ft	3/3/2016	3.35	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	0.9 J	1.8 J	0.65 J	< 0.019 U	< 0.019 U
South of Athletic Stands	SSHS-B332	SSHS-B332-SUB-6-8	6 - 8 ft	3/3/2016	0.01	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	0.01 J	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U
South of Athletic Stands	SSHS-B333	SSHS-B333-SUB-6-8	6 - 8 ft	3/3/2016	242	< 1.9 U	< 1.9 U	< 1.9 U	< 1.9 U	180 J	52 J	10 J	< 1.9 U	< 1.9 U
Main Parking Lot	SSHS-B334	SSHS-B334-SUB-6-8	6 - 8 ft	3/3/2016	0.022	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.022	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U
South of Athletic Stands	SSHS-B336	SSHS-B336-SUB-6-8	6 - 8 ft	3/3/2016	0.046	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	0.031 J	0.015 J	< 0.019 U	< 0.019 U	< 0.019 U
A-Wing	SSHS-B338	SSHS-B338-SUB-6-8	6 - 8 ft	3/9/2016	21.11	< 0.19 U	< 0.19 U	< 0.19 U	< 0.19 U	15 J	5.7 J	0.41 J	< 0.19 U	< 0.19 U
South of Athletic Stands	SSHS-B344	PS-FD-8	6 - 8 ft	3/3/2016	0.016	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	0.016 J	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U
South of Athletic Stands	SSHS-B344	SSHS-B344-SUB-6-8	6 - 8 ft	3/3/2016	0.013	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	0.013 J	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U
Football Field SW	SSHS-B438	SSHS-B438-SUB-6-8	6 - 8 ft	8/26/2016	36.8	< 0.18 U	< 0.18 U	< 0.18 U	< 0.079 U	26 J	10 J	0.8 J	< 0.18 U	< 0.18 U
Football Field SW	SSHS-B439	SSHS-B439-SUB-6-8	6 - 8 ft	9/15/2016	374	< 1.9 U	< 1.9 U	< 1.9 U	< 1.9 U	270 J	89 J	15 J	< 1.9 U	< 1.9 U
Football Field SW	SSHS-B440	SSHS-B440-SUB-6-8	6 - 8 ft	8/26/2016	440	< 1.8 UJ	< 1.8 U	< 1.8 U	< 1.8 U	340 J	86 J	14 J	< 1.8 U	< 1.8 U
Football Field SW	SSHS-B443	SSHS-B443-SUB-6-8	6 - 8 ft	9/14/2016	101.5	< 0.93 U	< 0.93 U	< 0.93 U	< 0.93 U	74 J	24 J	3.5 J	< 0.93 U	< 0.93 U
Football Field SW	SSHS-B444	SSHS-B444-SUB-6-8	6 - 8 ft	8/26/2016	23	< 0.19 UJ	< 0.19 U	< 0.19 U	< 0.19 U	< 0.19 U	23	< 0.19 U	< 0.19 U	< 0.19 U
Main Parking Lot	SSHS-B455	PS-FD-16	6 - 8 ft	8/30/2016	ND	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U
Main Parking Lot	SSHS-B455	SSHS-B455-SUB-6-8	6 - 8 ft	8/30/2016	ND	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U
A-Wing	SSHS-B464	SSHS-B464-SUB-6-8	6 - 8 ft	8/29/2016	1056	< 3.8 U	< 3.8 U	< 3.8 U	< 3.8 U	750 J	270 J	36 J	< 3.8 U	< 3.8 U
A-Wing	SSHS-B467	SSHS-B467-SUB-6-8	6 - 8 ft	8/29/2016	0.025	< 0.017 U	< 0.017 U	< 0.017 U	< 0.017 U	0.025	< 0.017 U	< 0.017 U	< 0.017 U	< 0.017 U
A-Wing	SSHS-B469	SSHS-B469-SUB-6-8	6 - 8 ft	8/29/2016	7.9	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	5.6 J	2 J	0.3 J	< 0.019 U	< 0.019 U
A-Wing	SSHS-B470	SSHS-B470-SUB-6-8	6 - 8 ft	8/29/2016	0.298	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.18 J	0.1 J	0.018 J	< 0.018 U	< 0.018 U
South of Athletic Stands	SSHS-B471	PS-FD-6	6 - 8 ft	8/24/2016	75	< 0.92 U	< 0.92 U	< 0.92 U	< 0.92 U	41 J	34 J		< 0.92 U	< 0.92 U
South of Athletic Stands	SSHS-B471	SSHS-B471-SUB-6-8	6 - 8 ft	8/24/2016	81	< 0.9 U	< 0.9 U	< 0.9 U	< 0.9 U	43 J	38 J		< 0.9 U	< 0.9 U

Table 9B
PCB results for Subsurface soils Remaining in Place
Former Sperry Remington Site - North Portion
Elmira, NY

					PCBs									
					Total PCBs	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Aroclor 1262	Aroclor 1268
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Subsurface Soil Criteria					10									
NYS Hazardous Waste					50									
Site Location	Location	Sample Name	Sample Depth (ft bgs)	Sample Date										
Main Parking Lot	SSHS-B473	PS-FD-15	6 - 8 ft	8/30/2016	ND	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U
Main Parking Lot	SSHS-B473	SSHS-B473-SUB-6-8	6 - 8 ft	8/30/2016	ND	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U
A-Wing	SSHS-B476	SSHS-B476-SUB-6-8	6 - 8 ft	8/29/2016	ND	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U
A-Wing	SSHS-B477	SSHS-B477-SUB-6-8	6 - 8 ft	8/29/2016	135.7	< 0.93 U	< 0.93 U	< 0.93 U	< 0.93 U	98 J	35 J	2.7 J	< 0.93 U	< 0.93 U
South of Athletic Stands	SSHS-B478	SSHS-B478-SUB-6-8	6 - 8 ft	8/25/2016	31.5	< 0.19 U	< 0.19 U	< 0.19 U	< 0.19 U	21 J	9.4 J	1.1 J	< 0.19 U	< 0.19 U
A-Wing	SSHS-B479	SSHS-B479-SUB-6-8	6 - 8 ft	8/29/2016	ND	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U
Football Field SW	SSHS-B619	SSHS-B619-SUB-6-8	6 - 8 ft	2/14/2017	0.125	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.082 J	0.043 J	< 0.018 U	< 0.018 U	< 0.018 U
Football Field SW	SSHS-B620	PS-FD-13	6 - 8 ft	2/13/2017	4.92	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	3.2 J	1.4 J	0.32 J	< 0.019 U	< 0.019 U
Football Field SW	SSHS-B620	SSHS-B620-SUB-6-8	6 - 8 ft	2/13/2017	2.33	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	1.6 J	0.58 J	0.15 J	< 0.019 U	< 0.019 U
Football Field SW	SSHS-B621	PS-FD-12	6 - 8 ft	2/13/2017	0.034	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.025 J	0.009 J	< 0.018 U	< 0.018 U	< 0.018 U
Football Field SW	SSHS-B621	SSHS-B621-SUB-6-8	6 - 8 ft	2/13/2017	0.0354	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.026 J	0.0094 J	< 0.018 U	< 0.018 U	< 0.018 U
A-Wing	SSHS-B622	SSHS-B622-SUB-6-8	6 - 8 ft	2/16/2017	2.7	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	1.7	0.87	0.13	< 0.018 U	< 0.018 U
South of Athletic Stands	SSHS-B624	SSHS-B624-SUB-6-8	6 - 8 ft	2/9/2017	0.024	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	0.013 J	0.011 J	< 0.019 U	< 0.019 U	< 0.019 U
Main Parking Lot	SSHS-B629	SSHS-B629-SUB-6-8	6 - 8 ft	2/9/2017	ND	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U
Main Parking Lot	SSHS-B629A	SSHS-B629A-SUB-6-8	6 - 8 ft	7/10/2017	ND	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U
Main Parking Lot	SSHS-B632	SSHS-B632-SUB-6-8	6 - 8 ft	2/10/2017	ND	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U
Main Parking Lot	SSHS-B632A	SSHS-B632A-SUB-6-8	6 - 8 ft	7/11/2017	ND	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U
Main Parking Lot	SSHS-B632B	SSHS-B632B-SUB-6-8	6 - 8 ft	7/13/2017	ND	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U
Main Parking Lot	SSHS-B633	SSHS-B633-SUB-6-8	6 - 8 ft	2/10/2017	0.244	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.16 J	0.084 J	< 0.018 U	< 0.018 U	< 0.018 U
Football Field SW	SSHS-B650	SSHS-B650-SUB-6-8	6 - 8 ft	2/14/2017	20.99	< 0.19 U	< 0.19 U	< 0.19 U	< 0.19 U	15 J	5.1 J	0.89 J	< 0.19 U	< 0.19 U
Football Field SW	SSHS-B651	PS-FD-15	6 - 8 ft	2/14/2017	ND	< 0.02 U	< 0.02 U	< 0.02 U	< 0.02 U	< 0.02 U	< 0.02 U	< 0.02 U	< 0.02 U	< 0.02 U
Football Field SW	SSHS-B651	SSHS-B651-SUB-6-8	6 - 8 ft	2/14/2017	ND	< 0.021 U	< 0.021 U	< 0.021 U	< 0.021 U	< 0.021 U	< 0.021 U	< 0.021 U	< 0.021 U	< 0.021 U
Football Field SW	SSHS-B652	PS-FD-16	6 - 8 ft	2/14/2017	52.9	< 0.93 U	< 0.93 U	< 0.93 U	< 0.93 U	40 J	11 J	1.9 J	< 0.93 U	< 0.93 U
Football Field SW	SSHS-B652	SSHS-B652-SUB-6-8	6 - 8 ft	2/14/2017	101.6	< 1.9 U	< 1.9 U	< 1.9 U	< 1.9 U	77 J	21 J	3.6 J	< 1.9 U	< 1.9 U
Football Field SW	SSHS-B653	SSHS-B653-SUB-6-8	6 - 8 ft	2/14/2017	22.9	< 0.19 U	< 0.19 U	< 0.19 U	< 0.19 U	17 J	5.9 J		< 0.19 U	< 0.19 U
South of Athletic Stands	SSHS-B655	SSHS-B655-SUB-6-8	6 - 8 ft	2/13/2017	0.025	< 0.02 U	< 0.02 U	< 0.02 U	< 0.02 U	0.025	< 0.02 U	< 0.02 U	< 0.02 U	< 0.02 U
A-Wing	SSHS-B665	021817 08:50_SSHS-B665-SUB-6-8	6 - 8 ft	2/16/2017	0.422	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.23 J	0.12 J	0.072 J	< 0.018 U	< 0.018 U
A-Wing	SSHS-B672	021817 08:50_PS-FD-26	6 - 8 ft	2/16/2017	0.028	< 0.017 U	< 0.017 U	< 0.017 U	< 0.017 U	0.018 J	0.01 J	< 0.017 U	< 0.017 U	< 0.017 U
A-Wing	SSHS-B672	021817 08:50_SSHS-B672-SUB-6-8	6 - 8 ft	2/16/2017	0.075	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.05 J	0.025 J	< 0.018 U	< 0.018 U	< 0.018 U
South of Athletic Stands	SSHS-B700	032317 09:00_SSHS-B700-SUB-6-8	6 - 8 ft	3/22/2017	0.0254	< 0.017 U	< 0.017 U	< 0.017 U	< 0.017 U	0.017	0.0084 J	< 0.017 U	< 0.017 U	< 0.017 U
Football Field SW	SSHS-B709	032317 09:00_SSHS-B709-SUB-6-8	6 - 8 ft	3/22/2017	0.037	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.026	0.011 J	< 0.018 U	< 0.018 U	< 0.018 U
A-Wing	SSHS-B710	032417 08:45_SSHS-B710-SUB-6-8	6 - 8 ft	3/23/2017	ND	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U
A-Wing	SSHS-B711	032417 08:45_SSHS-B711-SUB-6-8	6 - 8 ft	3/23/2017	1.318	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	0.86	0.38	0.078	< 0.019 U	< 0.019 U
A-Wing	SSHS-B723	SSHS-B723-SUB-6-8	6 - 8 ft	4/13/2017	2090	< 19 U	< 19 U	< 19 U	< 19 U	1500	480	110	< 19 U	< 19 U
A-Wing	SSHS-B738	SSHS-B738-SUB-6-8	6 - 8 ft	4/13/2017	0.021	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.021	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U
South of Athletic Stands	SSHS-B739	PS-FD-3	6 - 8 ft	4/12/2017	0.011	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	0.011 J	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U
South of Athletic Stands	SSHS-B739	SSHS-B739-SUB-6-8	6 - 8 ft	4/12/2017	ND	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U
A-Wing	SSHS-B743	SSHS-B743-SUB-6-8	6 - 8 ft	4/13/2017	0.017	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.017 J	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U
South of Athletic Stands	SSHS-B785	SSHS-B785-SUB-6-8	6 - 8 ft	5/17/2017	0.0443	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	0.035 J	0.0093 J	< 0.019 U	< 0.019 U	< 0.019 U
South of Athletic Stands	SSHS-B786	PS-FD-7	6 - 8 ft	5/17/2017	0.226	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.18 J	0.046 J	< 0.018 U	< 0.018 U	< 0.018 U
South of Athletic Stands	SSHS-B786	SSHS-B786-SUB-6-8	6 - 8 ft	5/17/2017	0.438	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	0.34 J	0.098 J	< 0.019 U	< 0.019 U	< 0.019 U
South of Athletic Stands	SSHS-B791	PS-FD-16	6 - 8 ft	5/23/2017	34.06	< 0.37 U	< 0.37 U	< 0.37 U	< 0.37 U	26	7.4	0.66	< 0.37 U	< 0.37 U
South of Athletic Stands	SSHS-B791	SSHS-B791-SUB-6-8	6 - 8 ft	5/23/2017	31.13	< 0.35 U	< 0.35 U	< 0.35 U	< 0.35 U	24	6.6	0.53	< 0.35 U	< 0.35 U
A-Wing	SSHS-B793	SSHS-B793-SUB-6-8	6 - 8 ft	5/15/2017	3730	< 9.4 U	< 9.4 U	< 9.4 U	< 9.4 U	2800	760	170	< 9.4 U	< 9.4 U
South of Athletic Stands	SSHS-B794	PS-FD-6	6 - 8 ft	5/16/2017	0.83	< 0.02 U	< 0.02 U	< 0.02 U	< 0.02 U	< 0.02 U	0.83	< 0.02 U	< 0.02 U	< 0.02 U
South of Athletic Stands	SSHS-B794	SSHS-B794-SUB-6-8	6 - 8 ft	5/16/2017	1.19	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	0.78	0.41	< 0.019 U	< 0.019 U
South of Athletic Stands	SSHS-B795	PS-FD-3	6 - 8 ft	5/16/2017	ND	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U
South of Athletic Stands	SSHS-B795	SSHS-B795-SUB-6-8	6 - 8 ft	5/16/2017	ND	< 0.02 U	< 0.02 U	< 0.02 U	< 0.02 U	< 0.02 U	< 0.02 U	< 0.02 U	< 0.02 U	< 0.02 U
South of Athletic Stands	SSHS-B796	SSHS-B796-SUB-6-8	6 - 8 ft	5/16/2017	0.199	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.11	0.073	0.016 J	< 0.018 U	< 0.018 U
South of Athletic Stands	SSHS-B797	PS-FD-5	6 - 8 ft	5/16/2017	184	< 1.9 U	< 1.9 U	< 1.9 U	< 1.9 U	69	88	27	< 1.9 U	< 1.9 U
South of Athletic Stands	SSHS-B797	SSHS-B797-SUB-6-8	6 - 8 ft	5/16/2017	154	< 1.9 U	< 1.9 U	< 1.9 U	< 1.9 U	52	79	23	< 1.9 U	< 1.9 U
A-Wing	SSHS-B797A	DS-PD-7	6 - 8 ft	7/13/2017	0.158	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.067	0.07	0.021	< 0.018 U	< 0.018 U
A-Wing	SSHS-B797A	SSHS-B797A-SUB-6-0	6 - 8 ft	7/13/2017	0.086	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.042	0.044	< 0.018 U	< 0.018 U	< 0.018 U
South of Athletic Stands	SSHS-B800	SSHS-B800-SUB-6-8	6 - 8 ft	5/17/2017	3409	< 19 U	< 19 U	< 19 U	< 19 U	2700 J	630 J	79 J	< 19 U	< 19 U
A-Wing	SSHS-B803	SSHS-B803-SUB-6-8	6 - 8 ft	5/16/2017	0.866	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	0.62	0.22	0.026	< 0.019 U	< 0.019 U
A-Wing	SSHS-B807	SSHS-B807-SUB-6-8	6 - 8 ft	5/15/2017	ND	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U
Tennis Court	SSHS-B819	SSHS-B819-SUB-6-8	6 - 8 ft	5/23/2017	ND	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U
South of Athletic Stands	SSHS-B820	SSHS-B820-SUB-6-8	6 - 8 ft	5/23/2017	ND	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U
Tennis Court	SSHS-B821	SSHS-B821-SUB-6-8	6 - 8 ft	5/23/2017	ND	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U

Table 9B
PCB results for Subsurface soils Remaining in Place
Former Sperry Remington Site - North Portion
Elmira, NY

					PCBs									
					Total PCBs	**Aroclor 1016**	**Aroclor 1221**	**Aroclor 1232**	**Aroclor 1242**	**Aroclor 1248**	**Aroclor 1254**	**Aroclor 1260**	**Aroclor 1262**	**Aroclor 1268**
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Subsurface Soil Criteria					10									
NYS Hazardous Waste					50									
Site Location	Location	Sample Name	Sample Depth (ft bgs)	Sample Date										
South of Athletic Stands	SSHS-SS12-CA	PS-FD-#10	6 - 8 ft	7/17/2015	ND	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U
South of Athletic Stands	SSHS-SS12-CA	SSHS-SS12-CA-SUB-6-8	6 - 8 ft	7/17/2015	ND	< 0.02 U	< 0.02 U	< 0.02 U	< 0.02 U	< 0.02 U	< 0.02 U	< 0.02 U	< 0.02 U	< 0.02 U
Tennis Court	SSHS-B71	081614 09:00_DUP-20	6 - 9.5 ft	8/15/2014	ND	< 0.018	< 0.018	< 0.018	< 0.018	< 0.018	< 0.018	< 0.018	< 0.018	< 0.018
Tennis Court	SSHS-B71	SSHS-B71-6-9.5R (8)	6 - 9.5 ft	8/15/2014	ND	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017
A-Wing	SSHS-B257	SSHS-B257-SUB-8-10	8 - 10 ft	7/30/2015	5.47	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	5 J		0.47 J	< 0.018 U	< 0.018 U
South of Athletic Stands	SSHS-B266A	SSHS-B266A-SUB-8-10	8 - 10 ft	7/29/2015	25.7	< 0.19 U	< 0.19 U	< 0.19 U	< 0.19 U	20 J	4.7 J	1 J	< 0.19 U	< 0.19 U
South of Athletic Stands	SSHS-B278A	SSHS-B278A-SUB-8-10	8 - 10 ft	7/29/2015	5.31	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	4.4 J	0.76 J	0.15 J	< 0.018 U	< 0.018 U
South of Athletic Stands	SSHS-B283A	SSHS-B283A-SUB-8-10	8 - 10 ft	7/29/2015	24.4	< 0.37 U	< 0.37 U	< 0.37 U	< 0.37 U	14 J	6.6 J	3.8 J	< 0.37 U	< 0.37 U
Main Parking Lot	SSHS-B329	SSHS-B329-SUB-8-10	8 - 10 ft	3/3/2016	0.132	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.11 J	0.022 J	< 0.018 U	< 0.018 U	< 0.018 U
A-Wing	SSHS-B330	SSHS-B330-SUB-8-10	8 - 10 ft	3/9/2016	42.1	< 0.37 U	< 0.37 U	< 0.37 U	< 0.37 U	31 J	10 J	1.1 J	< 0.37 U	< 0.37 U
A-Wing	SSHS-B330A	SSHS-B330A-SUB-8-10	8 - 10 ft	7/13/2017	2.627	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	1.7	0.83	0.097	< 0.018 U	< 0.018 U
South of Athletic Stands	SSHS-B331	SSHS-B331-SUB-8-10	8 - 10 ft	3/3/2016	0.294	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	0.12 J	0.13 J	0.044 J	< 0.019 U	< 0.019 U
South of Athletic Stands	SSHS-B332	SSHS-B332-SUB-8-10	8 - 10 ft	3/3/2016	0.313	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	0.2 J	0.095 J	0.018 J	< 0.019 U	< 0.019 U
South of Athletic Stands	SSHS-B333	SSHS-B333-SUB-8-10	8 - 10 ft	3/3/2016	78	< 0.96 U	< 0.96 U	< 0.96 U	< 0.96 U	57 J	19 J	2 J	< 0.96 U	< 0.96 U
Main Parking Lot	SSHS-B334	SSHS-B334-SUB-8-10	8 - 10 ft	3/3/2016	1.63	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	1 J	0.52 J	0.11 J	< 0.018 U	< 0.018 U
South of Athletic Stands	SSHS-B335	SSHS-B335-SUB-8-10	8 - 10 ft	3/3/2016	4.88	< 0.02 U	< 0.02 U	< 0.02 U	< 0.02 U	2.3 J	2.2 J	0.38 J	< 0.02 U	< 0.02 U
South of Athletic Stands	SSHS-B336	SSHS-B336-SUB-8-10	8 - 10 ft	3/3/2016	0.225	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	0.15 J	0.064 J	0.011 J	< 0.019 U	< 0.019 U
A-Wing	SSHS-B337	SSHS-B337-SUB-8-10	8 - 10 ft	3/9/2016	0.09	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.064 J	0.026 J	< 0.018 U	< 0.018 U	< 0.018 U
A-Wing	SSHS-B338	SSHS-B338-SUB-8-10	8 - 10 ft	3/9/2016	2.76	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	1.8 J	0.86 J	0.1 J	< 0.018 U	< 0.018 U
South of Athletic Stands	SSHS-B341	SSHS-B341-SUB-8-10	8 - 10 ft	3/3/2016	7.14	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	4.8 J	2.1 J	0.24 J	< 0.018 U	< 0.018 U
South of Athletic Stands	SSHS-B342	PS-FD-7	8 - 10 ft	3/3/2016	10	< 0.095 U	< 0.095 U	< 0.095 U	< 0.095 U	7.3 J	2.5 J	0.2 J	< 0.095 U	< 0.095 U
South of Athletic Stands	SSHS-B342	SSHS-B342-SUB-8-10	8 - 10 ft	3/3/2016	5.82	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	4.4 J	1.3 J	0.12 J	< 0.019 U	< 0.019 U
South of Athletic Stands	SSHS-B344	SSHS-B344-SUB-8-10	8 - 10 ft	3/3/2016	1.839	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	1.3 J	0.47 J	0.069 J	< 0.019 U	< 0.019 U
Tennis Court	SSHS-B37	12 Sep 00B37_8-10	8 - 10 ft	9/12/2000	0.081	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	0.046	< 0.035 U	0.035		
Football Field SW	SSHS-B438	SSHS-B438-SUB-8-10	8 - 10 ft	8/26/2016	231.5	< 1.8 U	< 1.8 U	< 1.8 U	< 0.079 U	170 J	56 J	5.5 J	< 1.8 U	< 1.8 U
Football Field SW	SSHS-B439	SSHS-B439-SUB-8-10	8 - 10 ft	9/15/2016	144.8	< 1.9 U	< 1.9 U	< 1.9 U	< 1.9 U	110 J	31 J	3.8 J	< 1.9 U	< 1.9 U
Football Field SW	SSHS-B440	SSHS-B440-SUB-8-10	8 - 10 ft	8/26/2016	39.6	< 0.37 U	< 0.37 U	< 0.37 U	< 0.37 U	29 J	9.4 J	1.2 J	< 0.37 U	< 0.37 U
Football Field SW	SSHS-B443	SSHS-B443-SUB-8-10	8 - 10 ft	9/15/2016	271.6	< 1.8 U	< 1.8 U	< 1.8 U	< 1.8 U	200 J	65 J	6.6 J	< 1.8 U	< 1.8 U
Football Field SW	SSHS-B444	SSHS-B444-SUB-8-10	8 - 10 ft	8/26/2016	33.6	< 0.18 U	< 0.18 U	< 0.18 U	< 0.18 U	24 J	8.2 J	1.4 J	< 0.18 U	< 0.18 U
Main Parking Lot	SSHS-B455	SSHS-B455-SUB-8-10	8 - 10 ft	8/30/2016	0.295	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.21 J	0.085 J	< 0.018 U	< 0.018 U	< 0.018 U
Main Parking Lot	SSHS-B455A	SSHS-B455A-SUB-8-10	8 - 10 ft	7/10/2017	0.138	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	0.087 J	0.051 J	< 0.019 U	< 0.019 U	< 0.019 U
A-Wing	SSHS-B469	SSHS-B469-SUB-8-10	8 - 10 ft	8/29/2016	87.9	< 0.96 U	< 0.96 U	< 0.96 U	< 0.96 U	63 J	22 J	2.9 J	< 0.96 U	< 0.96 U
A-Wing	SSHS-B470	SSHS-B470-SUB-8-10	8 - 10 ft	8/29/2016	174.1	< 0.96 U	< 0.96 U	< 0.96 U	< 0.96 U	120 J	48 J	6.1 J	< 0.96 U	< 0.96 U
South of Athletic Stands	SSHS-B471	SSHS-B471-SUB-8-10	8 - 10 ft	8/24/2016	320	< 1.8 U	< 1.8 U	< 1.8 U	< 1.8 U	< 1.8 U	320 J		< 1.8 U	< 1.8 U
South of Athletic Stands	SSHS-B472	SSHS-B472-SUB-8-10	8 - 10 ft	8/24/2016	0.65	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.41 J	0.24 J		< 0.018 U	< 0.018 U
Main Parking Lot	SSHS-B473	SSHS-B473-SUB-8-10	8 - 10 ft	8/30/2016	ND	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U
South of Athletic Stands	SSHS-B474	SSHS-B474-SUB-8-10	8 - 10 ft	8/24/2016	378	< 1.8 U	< 1.8 U	< 1.8 U	< 1.8 U	300 J	67 J	11 J	< 1.8 U	< 1.8 U
A-Wing	SSHS-B475	PS-FD-13	8 - 10 ft	8/29/2016	0.9	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.54 J	0.31 J	0.05 J	< 0.018 U	< 0.018 U
A-Wing	SSHS-B475	SSHS-B475-SUB-8-10	8 - 10 ft	8/29/2016	0.994	< 0.017 U	< 0.017 U	< 0.017 U	< 0.017 U	0.6 J	0.34 J	0.054 J	< 0.017 U	< 0.017 U
South of Athletic Stands	SSHS-B478	SSHS-B478-SUB-8-10	8 - 10 ft	8/25/2016	21.9	< 0.19 U	< 0.19 U	< 0.19 U	< 0.19 U	13 J	7.7 J	1.2 J	< 0.19 U	< 0.19 U
Football Field SW	SSHS-B619	SSHS-B619-SUB-8-10	8 - 10 ft	2/14/2017	0.607	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.42 J	0.16 J	0.027 J	< 0.018 U	< 0.018 U
Football Field SW	SSHS-B620	SSHS-B620-SUB-8-10	8 - 10 ft	2/13/2017	4.83	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	3.4 J	1.2 J	0.23 J	< 0.019 U	< 0.019 U
Football Field SW	SSHS-B621	SSHS-B621-SUB-8-10	8 - 10 ft	2/13/2017	0.434	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	0.31 J	0.099 J	0.025 J	< 0.019 U	< 0.019 U
A-Wing	SSHS-B622	SSHS-B622-SUB-8-10	8 - 10 ft	2/16/2017	6.92	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	4.7	2.1	0.12	< 0.018 U	< 0.018 U
South of Athletic Stands	SSHS-B624	SSHS-B624-SUB-8-10	8 - 10 ft	2/9/2017	1.701	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	1 J	0.61 J	0.091 J	< 0.019 U	< 0.019 U
Main Parking Lot	SSHS-B629	SSHS-B629-SUB-8-10	8 - 10 ft	2/9/2017	0.03	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.017 J	0.013 J	< 0.018 U	< 0.018 U	< 0.018 U
Main Parking Lot	SSHS-B629A	SSHS-B629A-SUB-8-10	8 - 10 ft	7/10/2017	ND	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U
South of Athletic Stands	SSHS-B630	PS-FD-17	8 - 10 ft	2/14/2017	1091	< 10 U	< 10 U	< 10 U	< 10 U	860 J	190 J	41 J	< 10 U	< 10 U
South of Athletic Stands	SSHS-B630	SSHS-B630-SUB-8-10	8 - 10 ft	2/14/2017	1303	< 9.8 U	< 9.8 U	< 9.8 U	< 9.8 U	1000 J	250 J	53 J	< 9.8 U	< 9.8 U
Main Parking Lot	SSHS-B632	SSHS-B632-SUB-8-10	8 - 10 ft	2/10/2017	0.053	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.033 J	0.02 J	< 0.018 U	< 0.018 U	< 0.018 U
Main Parking Lot	SSHS-B632A	SSHS-B632A-SUB-8-10	8 - 10 ft	7/11/2017	ND	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U
Main Parking Lot	SSHS-B633	SSHS-B633-SUB-8-10	8 - 10 ft	2/10/2017	3.027	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	2.2 J	0.73 J	0.097 J	< 0.018 U	< 0.018 U
Main Parking Lot	SSHS-B634	SSHS-B634-SUB-8-10	8 - 10 ft	2/10/2017	0.154	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	0.11 J	0.044 J	< 0.019 U	< 0.019 U	< 0.019 U
A-Wing	SSHS-B635	SSHS-B635-SUB-8-10	8 - 10 ft	2/16/2017	17.6	< 0.18 U	< 0.18 U	< 0.18 U	< 0.18 U	12 J	4.7 J	0.9 J	< 0.18 U	< 0.18 U
Football Field SW	SSHS-B650	SSHS-B650-SUB-8-10	8 - 10 ft	2/14/2017	1.936	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	1.4 J	0.45 J	0.086 J	< 0.019 U	< 0.019 U
Football Field SW	SSHS-B651	SSHS-B651-SUB-8-10	8 - 10 ft	2/14/2017	0.979	< 0.02 U	< 0.02 U	< 0.02 U	< 0.02 U	0.64 J	0.29 J	0.049 J	< 0.02 U	< 0.02 U
Football Field SW	SSHS-B652	SSHS-B652-SUB-8-10	8 - 10 ft	2/14/2017	108.7	< 1.8 U	< 1.8 U	< 1.8 U	< 1.8 U	84 J	21 J	3.7 J	< 1.8 U	< 1.8 U
Football Field SW	SSHS-B653	SSHS-B653-SUB-8-10	8 - 10 ft	2/14/2017	11.91	< 0.19 U	< 0.19 U	< 0.19 U	< 0.19 U	8.9 J	2.5 J	0.51 J	< 0.19 U	< 0.19 U
A-Wing	SSHS-B654	SSHS-B654-SUB-8-10	8 - 10 ft	2/16/2017	0.207	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	0.15 J	0.057 J	< 0.019 U	< 0.019 U	< 0.019 U

Table 9B
PCB results for Subsurface soils Remaining in Place
Former Sperry Remington Site - North Portion
Elmira, NY

					PCBs									
					Total PCBs	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Aroclor 1262	Aroclor 1268
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Subsurface Soil Criteria					10									
NYS Hazardous Waste					50									
Site Location	Location	Sample Name	Sample Depth (ft bgs)	Sample Date										
South of Athletic Stands	SSHS-B655	SSHS-B655-SUB-8-10	8 - 10 ft	2/13/2017	7.07	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	4.1	2.4	0.57	< 0.019 U	< 0.019 U
A-Wing	SSHS-B659	SSHS-B659-SUB-8-10	8 - 10 ft	2/16/2017	0.65	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	0.54 J	0.11 J	< 0.019 U	< 0.019 U	< 0.019 U
South of Athletic Stands	SSHS-B666	021617 08:35_SSHS-B666-SUB-8-10	8 - 10 ft	2/13/2017	1.627	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	1.2 J	0.36 J	0.067 J	< 0.018 U	< 0.018 U
A-Wing	SSHS-B673	021817 08:50_SSHS-B673-SUB-8-10	8 - 10 ft	2/16/2017	0.446	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	0.35 J	0.096 J	< 0.019 U	< 0.019 U	< 0.019 U
Main Parking Lot	SSHS-B681	032117 09:20_PS-FD-2	8 - 10 ft	3/20/2017	0.154	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	0.11	0.044	< 0.019 U	< 0.019 U	< 0.019 U
Main Parking Lot	SSHS-B681	032117 09:20_SSHS-B681-SUB-8-10	8 - 10 ft	3/20/2017	0.156	< 0.02 U	< 0.02 U	< 0.02 U	< 0.02 U	0.099	0.041	0.016 J	< 0.02 U	< 0.02 U
A-Wing	SSHS-B691	032417 08:45_SSHS-B691-SUB-8-10	8 - 10 ft	3/23/2017	0.141	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	0.091	0.034	0.016 J	< 0.019 U	< 0.019 U
Main Parking Lot	SSHS-B692	032117 09:20_SSHS-B692-SUB-8-10	8 - 10 ft	3/20/2017	0.351	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	0.25	0.078	0.023	< 0.019 U	< 0.019 U
A-Wing	SSHS-B693	032417 08:45_SSHS-B693-SUB-8-10	8 - 10 ft	3/23/2017	0.06	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.041	0.019	< 0.018 U	< 0.018 U	< 0.018 U
A-Wing	SSHS-B695	032417 08:45_SSHS-B695-SUB-8-10	8 - 10 ft	3/23/2017	0.059	< 0.018	< 0.018	< 0.018	< 0.018	0.046	0.013	< 0.018	< 0.018	< 0.018
Main Parking Lot	SSHS-B699	032217 08:50_SSHS-B699-SUB-8-10	8 - 10 ft	3/21/2017	0.105	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.073	0.032	< 0.018 U	< 0.018 U	< 0.018 U
A-Wing	SSHS-B701	032417 08:45_SSHS-B701-SUB-8-10	8 - 10 ft	3/23/2017	0.152	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.11	0.042	< 0.018 U	< 0.018 U	< 0.018 U
Main Parking Lot	SSHS-B705	032117 09:20_SSHS-B705-SUB-8-10	8 - 10 ft	3/20/2017	0.324	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	0.2	0.093	0.031	< 0.019 U	< 0.019 U
A-Wing	SSHS-B708	032217 08:50_SSHS-B708-SUB-8-10	8 - 10 ft	3/21/2017	0.096	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	0.096		< 0.019 U	< 0.019 U	< 0.019 U
South of Athletic Stands	SSHS-B715	032317 09:00_PS-FD-6	8 - 10 ft	3/22/2017	2.277	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	1.8	0.4	0.077	< 0.018 U	< 0.018 U
South of Athletic Stands	SSHS-B715	032317 09:00_SSHS-B715-SUB-8-10	8 - 10 ft	3/22/2017	2.591	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	2	0.5	0.091	< 0.019 U	< 0.019 U
South of Athletic Stands	SSHS-B741	SSHS-B741-SUB-8-10	8 - 10 ft	4/12/2017	4.55	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	3.2	1.1	0.25	< 0.019 U	< 0.019 U
South of Athletic Stands	SSHS-B787	SSHS-B787-SUB-8-10	8 - 10 ft	5/15/2017	0.907	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.62	0.25	0.037	< 0.018 U	< 0.018 U
A-Wing	SSHS-B792	SSHS-B792-SUB-8-10	8 - 10 ft	5/16/2017	172.6	< 1.8 U	< 1.8 U	< 1.8 U	< 1.8 U	130	38	4.6	< 1.8 U	< 1.8 U
South of Athletic Stands	SSHS-B795	SSHS-B795-SUB-8-10	8 - 10 ft	5/16/2017	0.211	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	0.16	0.051	< 0.019 U	< 0.019 U	< 0.019 U
A-Wing	SSHS-B798	SSHS-B798-SUB-8-10	8 - 10 ft	5/16/2017	0.38	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	0.2	0.15	0.03	< 0.019 U	< 0.019 U
South of Athletic Stands	SSHS-B800	SSHS-B800-SUB-8-10	8 - 10 ft	5/17/2017	1075	< 19 U	< 19 U	< 19 U	< 19 U	850 J	200 J	25 J	< 19 U	< 19 U
A-Wing	SSHS-B801	SSHS-B801-SUB-8-10	8 - 10 ft	5/17/2017	0.77	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.53 J	0.21 J	0.03 J	< 0.018 U	< 0.018 U
A-Wing	SSHS-B802	SSHS-B802-SUB-8-10	8 - 10 ft	5/17/2017	21.08	< 0.19 U	< 0.19 U	< 0.19 U	< 0.19 U	16 J	4.5 J	0.58 J	< 0.19 U	< 0.19 U
A-Wing	SSHS-B803	SSHS-B803-SUB-8-10	8 - 10 ft	5/16/2017	4.26	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	3.1	1	0.16	< 0.019 U	< 0.019 U
A-Wing	SSHS-B803A	SSHS-B803A-SUB-8-10	8 - 10 ft	7/11/2017	ND	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U
A-Wing	SSHS-B804	SSHS-B804-SUB-8-10	8 - 10 ft	5/16/2017	0.1	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.068	0.032	< 0.018 U	< 0.018 U	< 0.018 U
A-Wing	SSHS-B805	PS-FD-4	8 - 10 ft	5/16/2017	0.224	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.12	0.085	0.019	< 0.018 U	< 0.018 U
A-Wing	SSHS-B807	PS-FD-1	8 - 10 ft	5/15/2017	2.55	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	1.6	0.79	0.16	< 0.018 U	< 0.018 U
A-Wing	SSHS-B807	SSHS-B807-SUB-8-10	8 - 10 ft	5/15/2017	1.91	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	1.2	0.6	0.11	< 0.018 U	< 0.018 U
A-Wing	SSHS-B812	SSHS-B812-SUB-8-10	8 - 10 ft	5/15/2017	0.721	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.55	0.15	0.021	< 0.018 U	< 0.018 U
Tennis Court	SSHS-B819	SSHS-B819-SUB-8-10	8 - 10 ft	5/23/2017	ND	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U
Tennis Court	SSHS-B821	SSHS-B821-SUB-8-10	8 - 10 ft	5/23/2017	ND	< 0.017 U	< 0.017 U	< 0.017 U	< 0.017 U	< 0.017 U	< 0.017 U	< 0.017 U	< 0.017 U	< 0.017 U
Main Parking Lot	SSHS-B329A	SSHS-B329A-SUB-10-12	10 - 12 ft	7/11/2017	ND	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U
A-Wing	SSHS-B330	SSHS-B330B-SUB-10-12	10 - 12 ft	3/9/2016	267.4	< 1.9 U	< 1.9 U	< 1.9 U	< 1.9 U	180 J	78 J	9.4 J	< 1.9 U	< 1.9 U
A-Wing	SSHS-B469	SSHS-B469-SUB-10-12	10 - 12 ft	8/29/2016	1032	< 3.9 U	< 3.9 U	< 3.9 U	< 3.9 U	750 J	250 J	32 J	< 3.9 U	< 3.9 U
A-Wing	SSHS-B470	SSHS-B470-SUB-10-12	10 - 12 ft	8/29/2016	0.494	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.34 J	0.13 J	0.024 J	< 0.018 U	< 0.018 U
South of Athletic Stands	SSHS-B474	SSHS-B474-SUB-10-12	10 - 12 ft	8/24/2016	2.298	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	1.5 J	0.71 J	0.088 J	< 0.019 U	< 0.019 U
A-Wing	SSHS-B475	SSHS-B475-SUB-10-12	10 - 12 ft	8/29/2016	0.092	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.061 J	0.031 J	< 0.018 U	< 0.018 U	< 0.018 U
South of Athletic Stands	SSHS-B478	SSHS-B478-SUB-10-12	10 - 12 ft	8/25/2016	0.682	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.43 J	0.18 J	0.072 J	< 0.018 U	< 0.018 U
A-Wing	SSHS-B479	SSHS-B479-SUB-10-12	10 - 12 ft	8/29/2016	ND	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U
A-Wing	SSHS-B480	SSHS-B480-SUB-10-12	10 - 12 ft	8/29/2016	ND	< 0.017 U	< 0.017 U	< 0.017 U	< 0.017 U	< 0.017 U	< 0.017 U	< 0.017 U	< 0.017 U	< 0.017 U
South of Athletic Stands	SSHS-B482	PS-FD-7	10 - 12 ft	8/24/2016	1.3	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.87 J	0.32 J	0.11 J	< 0.018 U	< 0.018 U
South of Athletic Stands	SSHS-B482	SSHS-B482-SUB-10-12	10 - 12 ft	8/24/2016	1.96	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	1.4 J	0.41 J	0.15 J	< 0.018 U	< 0.018 U
Football Field SW	SSHS-B619	SSHS-B619-SUB-10-12	10 - 12 ft	2/14/2017	ND	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U
Football Field SW	SSHS-B620	SSHS-B620-SUB-10-12	10 - 12 ft	2/13/2017	0.017	< 0.017 U	< 0.017 U	< 0.017 U	< 0.017 U	0.017	< 0.017 U	< 0.017 U	< 0.017 U	< 0.017 U
Football Field SW	SSHS-B621	SSHS-B621-SUB-10-12	10 - 12 ft	2/13/2017	0.826	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.62 J	0.17 J	0.036 J	< 0.018 U	< 0.018 U
A-Wing	SSHS-B622	SSHS-B622-SUB-10-12	10 - 12 ft	2/16/2017	0.058	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.042 J	0.016 J	< 0.018 U	< 0.018 U	< 0.018 U
A-Wing	SSHS-B623	SSHS-B623-SUB-10-12	10 - 12 ft	2/16/2017	ND	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U
South of Athletic Stands	SSHS-B624	SSHS-B624-SUB-10-12	10 - 12 ft	2/9/2017	ND	< 0.02 U	< 0.02 U	< 0.02 U	< 0.02 U	< 0.02 U	< 0.02 U	< 0.02 U	< 0.02 U	< 0.02 U
South of Athletic Stands	SSHS-B625	SSHS-B625-SUB-10-12	10 - 12 ft	2/8/2017	ND	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U
South of Athletic Stands	SSHS-B625A	SSHS-B625A-SUB-10-12	10 - 12 ft	7/11/2017	0.06	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.03	0.03	< 0.018 U	< 0.018 U	< 0.018 U
South of Athletic Stands	SSHS-B626	SSHS-B626-SUB-10-12	10 - 12 ft	2/9/2017	0.032	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.032	< 0.018 U	< 0.018 U
South of Athletic Stands	SSHS-B630	SSHS-B630-SUB-10-12	10 - 12 ft	2/14/2017	59.2	< 0.94 U	< 0.94 U	< 0.94 U	< 0.94 U	46 J	11 J	2.2 J	< 0.94 U	< 0.94 U
Main Parking Lot	SSHS-B632	SSHS-B632-SUB-10-12	10 - 12 ft	2/10/2017	ND	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U
Main Parking Lot	SSHS-B632A	SSHS-B632A-SUB-10-12	10 - 12 ft	7/11/2017	ND	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U
Main Parking Lot	SSHS-B632B	SSHS-B632B-SUB-10-12	10 - 12 ft	7/13/2017	0.01	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.01 J	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U
Main Parking Lot	SSHS-B633	SSHS-B633-SUB-10-12	10 - 12 ft	2/10/2017	373	< 1.9 U	< 1.9 U	< 1.9 U	< 1.9 U	240 J	120 J	13 J	< 1.9 U	< 1.9 U
Football Field SW	SSHS-B644	PS-FD-4	10 - 12 ft	2/9/2017	24.02	< 0.19 U	< 0.19 U	< 0.19 U	< 0.19 U	16 J	7.3 J	0.72 J	< 0.19 U	< 0.19 U

Table 9B
PCB results for Subsurface soils Remaining in Place
Former Sperry Remington Site - North Portion
Elmira, NY

					PCBs									
					Total PCBs	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Aroclor 1262	Aroclor 1268
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Subsurface Soil Criteria					10									
NYS Hazardous Waste					50									
Site Location	Location	Sample Name	Sample Depth (ft bgs)	Sample Date										
Football Field SW	SSHS-B644	SSHS-B644-SUB-10-12	10 - 12 ft	2/9/2017	14.64	< 0.18 U	< 0.18 U	< 0.18 U	< 0.18 U	10 J	4.2 J	0.44 J	< 0.18 U	< 0.18 U
Football Field SW	SSHS-B645	SSHS-B645-SUB-10-12	10 - 12 ft	2/13/2017	9.39	< 0.087 U	< 0.087 U	< 0.087 U	< 0.087 U	5.8 J	2.7 J	0.89 J	< 0.087 U	< 0.087 U
Football Field SW	SSHS-B646	SSHS-B646-SUB-10-12	10 - 12 ft	2/13/2017	0.099	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.081 J	0.018 J	< 0.018 U	< 0.018 U	< 0.018 U
Football Field SW	SSHS-B650	SSHS-B650-SUB-10-12	10 - 12 ft	2/14/2017	0.039	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	0.023 J	0.016 J	< 0.019 U	< 0.019 U	< 0.019 U
Football Field SW	SSHS-B651	SSHS-B651-SUB-10-12	10 - 12 ft	2/14/2017	ND	< 0.02 U	< 0.02 U	< 0.02 U	< 0.02 U	< 0.02 U	< 0.02 U	< 0.02 U	< 0.02 U	< 0.02 U
Football Field SW	SSHS-B652	SSHS-B652-SUB-10-12	10 - 12 ft	2/14/2017	0.075	< 0.017 U	< 0.017 U	< 0.017 U	< 0.017 U	0.056 J	0.019 J	< 0.017 U	< 0.017 U	< 0.017 U
Football Field SW	SSHS-B653	SSHS-B653-SUB-10-12	10 - 12 ft	2/14/2017	7.4	< 0.19 U	< 0.19 U	< 0.19 U	< 0.19 U	5.6 J	1.5 J	0.3 J	< 0.19 U	< 0.19 U
A-Wing	SSHS-B654	SSHS-B654-SUB-10-12	10 - 12 ft	2/16/2017	0.0316	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.022 J	0.0096 J	< 0.018 U	< 0.018 U	< 0.018 U
Main Parking Lot	SSHS-B656	SSHS-B656-SUB-10-12	10 - 12 ft	2/14/2017	0.047	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.036 J	0.011 J	< 0.018 U	< 0.018 U	< 0.018 U
South of Athletic Stands	SSHS-B667	021117 09:30_SSHS-B667-SUB-10-12	10 - 12 ft	2/10/2017	30.1	< 0.2 U	< 0.2 U	< 0.2 U	< 0.2 U	20 J	8.1 J	2 J	< 0.2 U	< 0.2 U
South of Athletic Stands	SSHS-B668	021017 09:20_SSHS-B668-SUB-10-12	10 - 12 ft	2/9/2017	223	< 1.8 U	< 1.8 U	< 1.8 U	< 1.8 U	150 J	55 J	18 J	< 1.8 U	< 1.8 U
Football Field SW	SSHS-B669	021617 08:35_SSHS-B669-SUB-10-12	10 - 12 ft	2/13/2017	0.605	< 0.017 U	< 0.017 U	< 0.017 U	< 0.017 U	0.49 J	0.093 J	0.022 J	< 0.017 U	< 0.017 U
South of Athletic Stands	SSHS-B671	021117 09:30_SSHS-B671-SUB-10-12	10 - 12 ft	2/10/2017	ND	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U
South of Athletic Stands	SSHS-B671A	071117 08:30_SSHS-B671A-SUB-10-12	10 - 12 ft	7/10/2017	0.28	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	0.17 J	0.11 J	< 0.019 U	< 0.019 U
A-Wing	SSHS-B673	021817 08:50_SSHS-B673-SUB-10-12	10 - 12 ft	2/16/2017	0.057	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.046 J	0.011 J	< 0.018 U	< 0.018 U	< 0.018 U
Main Parking Lot	SSHS-B679	032217 08:50_PS-FD-5	10 - 12 ft	3/21/2017	0.329	< 0.02 U	< 0.02 U	< 0.02 U	< 0.02 U	0.2	0.096	0.033	< 0.02 U	< 0.02 U
Main Parking Lot	SSHS-B679	032217 08:50_SSHS-B679-SUB-10-12	10 - 12 ft	3/21/2017	0.365	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	0.24	0.093	0.032	< 0.019 U	< 0.019 U
Main Parking Lot	SSHS-B680	032117 09:20_SSHS-B680-SUB-10-12	10 - 12 ft	3/20/2017	0.969	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	0.75	0.17	0.049	< 0.019 U	< 0.019 U
Main Parking Lot	SSHS-B681	032117 09:20_SSHS-B681-SUB-10-12	10 - 12 ft	3/20/2017	0.619	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	0.47	0.11	0.039	< 0.019 U	< 0.019 U
A-Wing	SSHS-B682	032417 08:45_SSHS-B682-SUB-10-12	10 - 12 ft	3/23/2017	12.5	< 0.094 U,F1	< 0.094 U	< 0.094 U	< 0.094 U	9.4	2.6	0.5	< 0.094 U	< 0.094 U
South of Athletic Stands	SSHS-B683	032317 09:00_SSHS-B683-SUB-10-12	10 - 12 ft	3/22/2017	0.2	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.2	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U
South of Athletic Stands	SSHS-B684	032317 09:00_SSHS-B684-SUB-10-12	10 - 12 ft	3/22/2017	200	< 1.9 U	< 1.9 U	< 1.9 U	< 1.9 U	< 1.9 U	200	< 1.9 U	< 1.9 U	< 1.9 U
South of Athletic Stands	SSHS-B685	032417 08:45_SSHS-B685-SUB-10-12	10 - 12 ft	3/23/2017	ND	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U
South of Athletic Stands	SSHS-B686	032317 09:00_SSHS-B686-SUB-10-12	10 - 12 ft	3/22/2017	0.021	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.021	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U
South of Athletic Stands	SSHS-B686A	071117 08:30_SSHS-B686A-SUB-10-12	10 - 12 ft	7/10/2017	4.91	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	3.5 J	1.3 J	0.11 J	< 0.019 U	< 0.019 U
South of Athletic Stands	SSHS-B687	032317 09:00_SSHS-B687-SUB-10-12	10 - 12 ft	3/22/2017	ND	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U
A-Wing	SSHS-B691	032417 08:45_SSHS-B691-SUB-10-12	10 - 12 ft	3/23/2017	0.11	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	0.062	0.048	< 0.019 U	< 0.019 U	< 0.019 U
Main Parking Lot	SSHS-B692	032117 09:20_SSHS-B692-SUB-10-12	10 - 12 ft	3/20/2017	1.367	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	1	0.3	0.067	< 0.018 U	< 0.018 U
A-Wing	SSHS-B693	032417 08:45_SSHS-B693-SUB-10-12	10 - 12 ft	3/23/2017	ND	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U
Main Parking Lot	SSHS-B694	032217 08:50_SSHS-B694-SUB-10-12	10 - 12 ft	3/21/2017	ND	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U
Main Parking Lot	SSHS-B696	032117 09:20_PS-FD-1	10 - 12 ft	3/20/2017	0.183	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.096	0.07	0.017 J	< 0.018 U	< 0.018 U
Main Parking Lot	SSHS-B696	032117 09:20_SSHS-B696-SUB-10-12	10 - 12 ft	3/20/2017	0.27	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	0.13	0.09	0.05	< 0.019 U	< 0.019 U
Main Parking Lot	SSHS-B697	032217 08:50_SSHS-B697-SUB-10-12	10 - 12 ft	3/21/2017	1.22	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	0.74	0.36	0.12	< 0.019 U	< 0.019 U
Main Parking Lot	SSHS-B698	032117 09:20_SSHS-B698-SUB-10-12	10 - 12 ft	3/20/2017	0.173	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	0.093	0.059	0.021	< 0.019 U	< 0.019 U
Main Parking Lot	SSHS-B699	032217 08:50_SSHS-B699-SUB-10-12	10 - 12 ft	3/21/2017	0.698	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	0.51	0.14	0.048	< 0.019 U	< 0.019 U
South of Athletic Stands	SSHS-B700	032317 09:00_SSHS-B700-SUB-10-12	10 - 12 ft	3/22/2017	ND	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U
A-Wing	SSHS-B701	032417 08:45_SSHS-B701-SUB-10-12	10 - 12 ft	3/23/2017	ND	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U
South of Athletic Stands	SSHS-B706	032317 09:00_SSHS-B706-SUB-10-12	10 - 12 ft	3/22/2017	0.094	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.048	0.022	0.024	< 0.018 U	< 0.018 U
South of Athletic Stands	SSHS-B707	032317 09:00_SSHS-B707-SUB-10-12	10 - 12 ft	3/22/2017	ND	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U
South of Athletic Stands	SSHS-B712	032317 09:00_SSHS-B712-SUB-10-12	10 - 12 ft	3/22/2017	0.0249	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.015 J	0.0099 J	< 0.018 U	< 0.018 U	< 0.018 U
South of Athletic Stands	SSHS-B712A	071117 08:30_SSHS-B712A-SUB-10-12	10 - 12 ft	7/10/2017	1.2	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	1.2 J		< 0.019 U	< 0.019 U
A-Wing	SSHS-B713	032417 08:45_PS-FD-11	10 - 12 ft	3/23/2017	ND	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U
A-Wing	SSHS-B713	032417 08:45_SSHS-B713-SUB-10-12	10 - 12 ft	3/23/2017	ND	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U
South of Athletic Stands	SSHS-B724	SSHS-B724-SUB-10-12	10 - 12 ft	4/12/2017	ND	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U
South of Athletic Stands	SSHS-B742	SSHS-B742-SUB-10-12	10 - 12 ft	4/12/2017	ND	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U
South of Athletic Stands	SSHS-B742A	SSHS-B742A-SUB-10-12	10 - 12 ft	7/13/2017	0.0319	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.022	0.0099 J	< 0.018 U	< 0.018 U	< 0.018 U
A-Wing	SSHS-B788	SSHS-B788-SUB-10-12	10 - 12 ft	5/16/2017	4.14	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	2.9	1.1	0.14	< 0.019 U	< 0.019 U
A-Wing	SSHS-B792	SSHS-B792-SUB-10-12	10 - 12 ft	5/16/2017	0.782	< 0.02 U	< 0.02 U	< 0.02 U	< 0.02 U	0.47	0.25	0.062	< 0.02 U	< 0.02 U
A-Wing	SSHS-B798	SSHS-B798-SUB-10-12	10 - 12 ft	5/16/2017	4.6	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	3.7	0.77	0.13	< 0.018 U	< 0.018 U
Main Parking Lot	SSHS-B799	PS-FD-8	10 - 12 ft	5/17/2017	1.679	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	1.2 J	0.42 J	0.059 J	< 0.019 U	< 0.019 U
Main Parking Lot	SSHS-B799	SSHS-B799-SUB-10-12	10 - 12 ft	5/17/2017	2.341	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	1.7 J	0.57 J	0.071 J	< 0.018 U	< 0.018 U
South of Athletic Stands	SSHS-B800	SSHS-B800-SUB-10-12	10 - 12 ft	5/17/2017	91.3	< 0.96 U	< 0.96 U	< 0.96 U	< 0.96 U	71	18	2.3	< 0.96 U	< 0.96 U
A-Wing	SSHS-B801	PS-FD-9	10 - 12 ft	5/17/2017	0.13	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.11 J	0.02 J	< 0.018 U	< 0.018 U	< 0.018 U
A-Wing	SSHS-B801	SSHS-B801-SUB-10-12	10 - 12 ft	5/17/2017	0.095	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.079 J	0.016 J	< 0.018 U	< 0.018 U	< 0.018 U
A-Wing	SSHS-B803	SSHS-B803-SUB-10-12	10 - 12 ft	5/16/2017	0.569	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	0.39	0.15	0.029	< 0.019 U	< 0.019 U
A-Wing	SSHS-B803A	SSHS-B803A-SUB-10-12	10 - 12 ft	7/11/2017	ND	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U
A-Wing	SSHS-B804	SSHS-B804-SUB-10-12	10 - 12 ft	5/16/2017	544	< 9.2 U	< 9.2 U	< 9.2 U	< 9.2 U	410	120	14	< 9.2 U	< 9.2 U
A-Wing	SSHS-B805	SSHS-B805-SUB-10-12	10 - 12 ft	5/17/2017	27.26	< 0.18 U	< 0.18 U	< 0.18 U	< 0.18 U	20 J	6.4 J	0.86 J	< 0.18 U	< 0.18 U
A-Wing	SSHS-B805A	SSHS-B805A-SUB-10-12	10 - 12 ft	7/12/2017	4.62	< 0.02 U	< 0.02 U	< 0.02 U	< 0.02 U	2.8	1.6	0.22	< 0.02 U	< 0.02 U

Table 9B
PCB results for Subsurface soils Remaining in Place
Former Sperry Remington Site - North Portion
Elmira, NY

					PCBs									
					Total PCBs	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Aroclor 1262	Aroclor 1268
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Subsurface Soil Criteria					10									
NYS Hazardous Waste					50									
Site Location	Location	Sample Name	Sample Depth (ft bgs)	Sample Date										
Tennis Court	SSHS-B819	SSHS-B819-SUB-10-12	10 - 12 ft	5/23/2017	ND	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U
Tennis Court	SSHS-B821	SSHS-B821-SUB-10-12	10 - 12 ft	5/23/2017	ND	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U
Main Parking Lot	SSHS-B81	SSHS-B81-10-13.5 (10.5)	10 - 13.5 ft	8/14/2014	ND	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U
South of Athletic Stands	SSHS-B70	081514 01:15_SSHS-B70-10-14 (12.5)	10 - 14 ft	8/14/2014	3.3	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	3.3	< 0.019 U	< 0.019 U	< 0.019 U
Main Parking Lot	SSHS-B84	SSHS-B84-10-14 (12)	10 - 14 ft	8/14/2014	ND	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U
Main Parking Lot	SSHS-B80	SSHS-B80-10-14.5 (12.5)	10 - 14.5 ft	8/14/2014	ND	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U
Main Parking Lot	SSHS-B83	SSHS-B83-10-14.5 (12)	10 - 14.5 ft	8/13/2014	ND	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U
Main Parking Lot	SSHS-B73	SSHS-B73-10-15 (12.5)	10 - 15 ft	8/13/2014	0.101	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	0.077	< 0.019 U	0.024	< 0.019 U	< 0.019 U
Main Parking Lot	SSHS-B74	SSHS-B74-10-15 (12.5)	10 - 15 ft	8/13/2014	ND	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U
Tennis Court	SSHS-B75	SSHS-B75-10-15 (12.5)	10 - 15 ft	8/14/2014	ND	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017
Tennis Court	SSHS-B76	SSHS-B76-10-15 (12.5)	10 - 15 ft	8/14/2014	ND	< 0.018	< 0.018	< 0.018	< 0.018	< 0.018	< 0.018	< 0.018	< 0.018	< 0.018
Tennis Court	SSHS-B77	SSHS-B77-10-15 (12.5)	10 - 15 ft	8/14/2014	ND	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017
Main Parking Lot	SSHS-B78	SSHS-B78-10-15 (12)	10 - 15 ft	8/14/2014	ND	< 0.017 U	< 0.017 U	< 0.017 U	< 0.017 U	< 0.017 U	< 0.017 U	< 0.017 U	< 0.017 U	< 0.017 U
Main Parking Lot	SSHS-B79	SSHS-B79-10-15 (12.5)	10 - 15 ft	8/14/2014	ND	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U
Main Parking Lot	SSHS-B82	SSHS-B82-10-15 (12.5)	10 - 15 ft	8/13/2014	ND	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U
Main Parking Lot	SSHS-B85	DUP-10	10 - 15 ft	8/13/2014	ND	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U
Main Parking Lot	SSHS-B85	SSHS-B85-10-15 (12.5)	10 - 15 ft	8/13/2014	ND	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U
Main Parking Lot	SSHS-B86	SSHS-B86-10-15 (12.5)	10 - 15 ft	8/13/2014	ND	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U
Main Parking Lot	SSHS-B87	SSHS-B87-10-15 (12)	10 - 15 ft	8/14/2014	ND	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U
Main Parking Lot	SSHS-B88	SSHS-B88-10-15 (12.5)	10 - 15 ft	8/13/2014	ND	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U
Main Parking Lot	SSHS-B89	SSHS-B89-10-15 (12.5)	10 - 15 ft	8/13/2014	ND	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U
Main Parking Lot	SSHS-B90	SSHS-B90-10-15 (13)	10 - 15 ft	8/13/2014	ND	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U
Main Parking Lot	SSHS-B91	SSHS-91-10-15 (12.5)	10 - 15 ft	8/13/2014	ND	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U
Tennis Court	SSHS-B72	SSHS-B72-11.5-13.5 (12.5)	11.5 - 13.5 ft	8/15/2014	ND	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U
A-Wing	SSHS-B330	SSHS-B330B-SUB-12-14	12 - 14 ft	3/9/2016	3.85	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	2.2 J	1.4 J	0.25 J	< 0.018 U	< 0.018 U
A-Wing	SSHS-B469	SSHS-B469-SUB-12-14	12 - 14 ft	8/29/2016	555	< 1.9 U	< 1.9 U	< 1.9 U	< 1.9 U	410 J	130 J	15 J	< 1.9 U	< 1.9 U
A-Wing	SSHS-B470	SSHS-B470-SUB-12-14	12 - 14 ft	8/29/2016	11.4	< 0.093 U	< 0.093 U	< 0.093 U	< 0.093 U	7.6 J	3.3 J	0.5 J	< 0.093 U	< 0.093 U
South of Athletic Stands	SSHS-B478	SSHS-B478-SUB-12-14	12 - 14 ft	8/25/2016	13.47	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	7.8 J	5 J	0.67 J	< 0.019 U	< 0.019 U
Football Field SW	SSHS-B621	SSHS-B621-SUB-12-14	12 - 14 ft	2/13/2017	0.268	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.18	0.088	< 0.018 U	< 0.018 U	< 0.018 U
South of Athletic Stands	SSHS-B624	SSHS-B624-SUB-12-14	12 - 14 ft	2/9/2017	0.532	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.37	0.13	0.032	< 0.018 U	< 0.018 U
South of Athletic Stands	SSHS-B625	SSHS-B625-SUB-12-14	12 - 14 ft	2/8/2017	ND	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U
South of Athletic Stands	SSHS-B626	PS-FD-2	12 - 14 ft	2/9/2017	2.25	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	1.4 J	0.76 J	0.09 J	< 0.018 U	< 0.018 U
South of Athletic Stands	SSHS-B626	SSHS-B626-SUB-12-14	12 - 14 ft	2/9/2017	1.57	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	1.1 J	0.39 J	0.08 J	< 0.018 U	< 0.018 U
South of Athletic Stands	SSHS-B627	SSHS-B627-SUB-12-14	12 - 14 ft	2/8/2017	0.66	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.3 J	0.25 J	0.11 J	< 0.018 U	< 0.018 U
Main Parking Lot	SSHS-B628	SSHS-B628-SUB-12-14	12 - 14 ft	2/9/2017	0.675	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	0.32 J	0.29 J	0.065 J	< 0.019 U	< 0.019 U
Main Parking Lot	SSHS-B629	SSHS-B629-SUB-12-14	12 - 14 ft	2/9/2017	ND	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U
South of Athletic Stands	SSHS-B630	SSHS-B630-SUB-12-14	12 - 14 ft	2/14/2017	228.7	< 1.8 U	< 1.8 U	< 1.8 U	< 1.8 U	180 J	40 J	8.7 J	< 1.8 U	< 1.8 U
A-Wing	SSHS-B631	SSHS-B631-SUB-12-14	12 - 14 ft	2/16/2017	0.128	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.092 J	0.036 J	< 0.018 U	< 0.018 U	< 0.018 U
Main Parking Lot	SSHS-B632	SSHS-B632-SUB-12-14	12 - 14 ft	2/10/2017	0.035	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.023 J	0.012 J	< 0.018 U	< 0.018 U	< 0.018 U
Main Parking Lot	SSHS-B632A	SSHS-B632A-SUB-12-14	12 - 14 ft	7/11/2017	ND	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U
Main Parking Lot	SSHS-B633	SSHS-B633-SUB-12-14	12 - 14 ft	2/10/2017	16.45	< 0.093 U	< 0.093 U	< 0.093 U	< 0.093 U	11 J	4.7 J	0.75 J	< 0.093 U	< 0.093 U
Main Parking Lot	SSHS-B634	SSHS-B634-SUB-12-14	12 - 14 ft	2/10/2017	0.133	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.087 J	0.046 J	< 0.018 U	< 0.018 U	< 0.018 U
A-Wing	SSHS-B635	SSHS-B635-SUB-12-14	12 - 14 ft	2/16/2017	1.59	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	1.1 J	0.39 J	0.1 J	< 0.019 U	< 0.019 U
Football Field SW	SSHS-B644	SSHS-B644-SUB-12-14	12 - 14 ft	2/9/2017	0.078	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.061	0.017 J	< 0.018 U	< 0.018 U	< 0.018 U
Football Field SW	SSHS-B645	SSHS-B645-SUB-12-14	12 - 14 ft	2/13/2017	6.27	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	4.2	1.7	0.37	< 0.018 U	< 0.018 U
Football Field SW	SSHS-B646	SSHS-B646-SUB-12-14	12 - 14 ft	2/13/2017	323	< 9 U	< 9 U	< 9 U	< 9 U	220	90	13	< 9 U	< 9 U
Football Field SW	SSHS-B650	SSHS-B650-SUB-12-14	12 - 14 ft	2/14/2017	1.787	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	1.3	0.4	0.087	< 0.018 U	< 0.018 U
Football Field SW	SSHS-B651	SSHS-B651-SUB-12-14	12 - 14 ft	2/14/2017	0.069	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.05	0.019	< 0.018 U	< 0.018 U	< 0.018 U
Football Field SW	SSHS-B652	SSHS-B652-SUB-12-14	12 - 14 ft	2/14/2017	19.24	< 0.18 U	< 0.18 U	< 0.18 U	< 0.18 U	15	3.6	0.64	< 0.18 U	< 0.18 U
Football Field SW	SSHS-B653	SSHS-B653-SUB-12-14	12 - 14 ft	2/14/2017	5.41	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	4.1	1.1	0.21	< 0.018 U	< 0.018 U
Main Parking Lot	SSHS-B656	SSHS-B656-SUB-12-14	12 - 14 ft	2/14/2017	0.618	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.45 J	0.15 J	0.018 J	< 0.018 U	< 0.018 U
A-Wing	SSHS-B659	PS-FD-27	12 - 14 ft	2/16/2017	0.885	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.58 J	0.28 J	0.025 J	< 0.018 U	< 0.018 U
A-Wing	SSHS-B659	SSHS-B659-SUB-12-14	12 - 14 ft	2/16/2017	0.867	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.58 J	0.26 J	0.027 J	< 0.018 U	< 0.018 U
South of Athletic Stands	SSHS-B667	021117 09:30_SSHS-B667-SUB-12-14	12 - 14 ft	2/10/2017	8.86	< 0.021 U	< 0.021 U	< 0.021 U	< 0.021 U	6.6	1.9	0.36	< 0.021 U	< 0.021 U
South of Athletic Stands	SSHS-B668	021017 09:20_SSHS-B668-SUB-12-14	12 - 14 ft	2/9/2017	100.3	< 0.93 U	< 0.93 U	< 0.93 U	< 0.93 U	49	43	8.3	< 0.93 U	< 0.93 U
Football Field SW	SSHS-B669	021617 08:35_SSHS-B669-SUB-12-14	12 - 14 ft	2/13/2017	33.9	< 0.18 U	< 0.18 U	< 0.18 U	< 0.18 U	22	9.9	2	< 0.18 U	< 0.18 U
Main Parking Lot	SSHS-B679	032217 08:50_SSHS-B679-SUB-12-14	12 - 14 ft	3/21/2017	1.014	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.74	0.22	0.054	< 0.018 U	< 0.018 U
Main Parking Lot	SSHS-B680	032117 09:20_SSHS-B680-SUB-12-14	12 - 14 ft	3/20/2017	0.243	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.18	0.049	0.014 J	< 0.018 U	< 0.018 U
Main Parking Lot	SSHS-B681	032117 09:20_SSHS-B681-SUB-12-14	12 - 14 ft	3/20/2017	0.157	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	0.11	0.033	0.014 J	< 0.019 U	< 0.019 U

Table 9B
PCB results for Subsurface soils Remaining in Place
Former Sperry Remington Site - North Portion
Elmira, NY

					PCBs									
					Total PCBs	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Aroclor 1262	Aroclor 1268
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Subsurface Soil Criteria					10									
NYS Hazardous Waste					50									
Site Location	Location	Sample Name	Sample Depth (ft bgs)	Sample Date										
South of Athletic Stands	SSHS-B683	032317 09:00_SSHS-B683-SUB-12-14	12 - 14 ft	3/22/2017	0.887	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.52	0.27	0.097	< 0.018 U	< 0.018 U
South of Athletic Stands	SSHS-B684	032317 09:00_SSHS-B684-SUB-12-14	12 - 14 ft	3/22/2017	410	< 1.8 U	< 1.8 U	< 1.8 U	< 1.8 U	< 1.8 U	410	< 1.8 U	< 1.8 U	< 1.8 U
South of Athletic Stands	SSHS-B685	032417 08:45_SSHS-B685-SUB-12-14	12 - 14 ft	3/23/2017	0.541	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	0.4	0.12	0.021	< 0.019 U	< 0.019 U
South of Athletic Stands	SSHS-B686	032317 09:00_SSHS-B686-SUB-12-14	12 - 14 ft	3/22/2017	0.737	< 0.017 U,F2,F1	< 0.017 U	< 0.017 U	< 0.017 U	0.56	0.15	0.027	< 0.017 U	< 0.017 U
Main Parking Lot	SSHS-B692	032117 09:20_SSHS-B692-SUB-12-14	12 - 14 ft	3/20/2017	0.523	< 0.02 U	< 0.02 U	< 0.02 U	< 0.02 U	0.37	0.11	0.043	< 0.02 U	< 0.02 U
Main Parking Lot	SSHS-B696	032117 09:20_SSHS-B696-SUB-12-14	12 - 14 ft	3/20/2017	0.605	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.55		0.055	< 0.018 U	< 0.018 U
Main Parking Lot	SSHS-B697	032217 08:50_SSHS-B697-SUB-12-14	12 - 14 ft	3/21/2017	2.66	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	2.1	0.46	0.1	< 0.019 U	< 0.019 U
Main Parking Lot	SSHS-B698	032117 09:20_SSHS-B698-SUB-12-14	12 - 14 ft	3/20/2017	0.108	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	0.073	0.035	< 0.019 U	< 0.019 U	< 0.019 U
Main Parking Lot	SSHS-B699	032217 08:50_SSHS-B699-SUB-12-14	12 - 14 ft	3/21/2017	0.108	< 0.02 U	< 0.02 U	< 0.02 U	< 0.02 U	0.075	0.033	< 0.02 U	< 0.02 U	< 0.02 U
South of Athletic Stands	SSHS-B700	032317 09:00_PS-FD-7	12 - 14 ft	3/22/2017	0.322	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.24	0.064	0.018	< 0.018 U	< 0.018 U
South of Athletic Stands	SSHS-B700	032317 09:00_SSHS-B700-SUB-12-14	12 - 14 ft	3/22/2017	0.482	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	0.34	0.11	0.032	< 0.019 U	< 0.019 U
A-Wing	SSHS-B701	032417 08:45_SSHS-B701-SUB-12-14	12 - 14 ft	3/23/2017	0.271	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.2	0.058	0.013 J	< 0.018 U	< 0.018 U
South of Athletic Stands	SSHS-B714	032317 09:00_SSHS-B714-SUB-12-14	12 - 14 ft	3/22/2017	0.203	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	0.14	0.049	0.014 J	< 0.019 U	< 0.019 U
South of Athletic Stands	SSHS-B715	032317 09:00_SSHS-B715-SUB-12-14	12 - 14 ft	3/22/2017	0.237	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	0.18	0.045	0.012 J	< 0.019 U	< 0.019 U
South of Athletic Stands	SSHS-B724	SSHS-B724-SUB-12-14	12 - 14 ft	4/12/2017	0.014	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.014 J	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U
A-Wing	SSHS-B736	SSHS-B736-SUB-12-14	12 - 14 ft	4/13/2017	0.034	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.023	0.011 J	< 0.018 U	< 0.018 U	< 0.018 U
A-Wing	SSHS-B737	PS-FD-5	12 - 14 ft	4/13/2017	0.357	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	0.24	0.092	0.025	< 0.019 U	< 0.019 U
A-Wing	SSHS-B737	SSHS-B737-SUB-12-14	12 - 14 ft	4/13/2017	0.589	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	0.32	0.22	0.049	< 0.019 U	< 0.019 U
South of Athletic Stands	SSHS-B742	SSHS-B742-SUB-12-14	12 - 14 ft	4/12/2017	4.07	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	3.1	0.84	0.13	< 0.019 U	< 0.019 U
A-Wing	SSHS-B792	SSHS-B792-SUB-12-14	12 - 14 ft	5/16/2017	81	< 1.1 U	< 1.1 U	< 1.1 U	< 1.1 U	63	16	2	< 1.1 U	< 1.1 U
Main Parking Lot	SSHS-B799	SSHS-B799-SUB-12-14	12 - 14 ft	5/17/2017	0.196	< 0.02 U	< 0.02 U	< 0.02 U	< 0.02 U	0.13 J	0.066 J	< 0.02 U	< 0.02 U	< 0.02 U
South of Athletic Stands	SSHS-B800	SSHS-B800-SUB-12-14	12 - 14 ft	5/17/2017	216.1	< 1.8 U	< 1.8 U	< 1.8 U	< 1.8 U	170 J	41 J	5.1 J	< 1.8 U	< 1.8 U
A-Wing	SSHS-B801	SSHS-B801-SUB-12-14	12 - 14 ft	5/17/2017	2.693	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	1.9 J	0.7 J	0.093 J	< 0.018 U	< 0.018 U
A-Wing	SSHS-B802	SSHS-B802-SUB-12-14	12 - 14 ft	5/17/2017	17.06	< 0.18 U	< 0.18 U	< 0.18 U	< 0.18 U	13 J	3.6 J	0.46 J	< 0.18 U	< 0.18 U
A-Wing	SSHS-B803	SSHS-B803-SUB-12-14	12 - 14 ft	5/16/2017	0.565	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.39	0.15	0.025	< 0.018 U	< 0.018 U
A-Wing	SSHS-B804	SSHS-B804-SUB-12-14	12 - 14 ft	5/16/2017	115.7	< 0.96 U	< 0.96 U	< 0.96 U	< 0.96 U	80	32	3.7	< 0.96 U	< 0.96 U
A-Wing	SSHS-B811	SSHS-B811-SUB-12-14	12 - 14 ft	5/16/2017	124.2	< 0.96 U	< 0.96 U	< 0.96 U	< 0.96 U	89	31	4.2	< 0.96 U	< 0.96 U
A-Wing	SSHS-B812	SSHS-B812-SUB-12-14	12 - 14 ft	5/15/2017	12.84	< 0.18 U	< 0.18 U	< 0.18 U	< 0.18 U	9.6	2.6	0.64	< 0.18 U	< 0.18 U
Tennis Court	SSHS-B819	SSHS-B819-SUB-12-14	12 - 14 ft	5/23/2017	0.027	< 0.017 U	< 0.017 U	< 0.017 U	< 0.017 U	< 0.017 U	0.027	< 0.017 U	< 0.017 U	< 0.017 U
Tennis Court	SSHS-B821	SSHS-B821-SUB-12-14	12 - 14 ft	5/23/2017	ND	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U
Football Field SW	SSHS-B621	SSHS-B621-SUB-14-16	14 - 16 ft	2/13/2017	0.056	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	0.029	0.027	< 0.019 U	< 0.019 U	< 0.019 U
South of Athletic Stands	SSHS-B624	SSHS-B624-SUB-14-16	14 - 16 ft	2/9/2017	ND	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U
South of Athletic Stands	SSHS-B630	SSHS-B630-SUB-14-16	14 - 16 ft	2/14/2017	0.216	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	0.17	0.046	< 0.019 U	< 0.019 U	< 0.019 U
A-Wing	SSHS-B630A	SSHS-B630A-SUB-14-16	14 - 16 ft	7/12/2017	2.201	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	1.7	0.45	0.051	< 0.018 U	< 0.018 U
A-Wing	SSHS-B631	SSHS-B631-SUB-14-16	14 - 16 ft	2/16/2017	ND	< 0.017 U	< 0.017 U	< 0.017 U	< 0.017 U	< 0.017 U	< 0.017 U	< 0.017 U	< 0.017 U	< 0.017 U
Football Field SW	SSHS-B644	SSHS-B644-SUB-14-16	14 - 16 ft	2/9/2017	22.84	< 0.17 U	< 0.17 U	< 0.17 U	< 0.17 U	16	6.1	0.74	< 0.17 U	< 0.17 U
Football Field SW	SSHS-B645	SSHS-B645-SUB-14-16	14 - 16 ft	2/13/2017	0.078	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.046	0.032	< 0.018 U	< 0.018 U	< 0.018 U
Football Field SW	SSHS-B646	SSHS-B646-SUB-14-16	14 - 16 ft	2/13/2017	0.96	< 0.018 U	< 0.018 U	< 0.018 U	0.96	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U
A-Wing	SSHS-B647	PS-FD-24	14 - 16 ft	2/16/2017	14.29	< 0.18 U	< 0.18 U	< 0.18 U	< 0.18 U	11 J	2.7 J	0.59 J	< 0.18 U	< 0.18 U
A-Wing	SSHS-B647	SSHS-B647-SUB-14-16	14 - 16 ft	2/16/2017	14.33	< 0.089 U	< 0.089 U	< 0.089 U	< 0.089 U	11 J	2.8 J	0.53 J	< 0.089 U	< 0.089 U
Football Field SW	SSHS-B650	SSHS-B650-SUB-14-16	14 - 16 ft	2/14/2017	ND	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U
Football Field SW	SSHS-B651	SSHS-B651-SUB-14-16	14 - 16 ft	2/14/2017	ND	< 0.017 U	< 0.017 U	< 0.017 U	< 0.017 U	< 0.017 U	< 0.017 U	< 0.017 U	< 0.017 U	< 0.017 U
Football Field SW	SSHS-B652	SSHS-B652-SUB-14-16	14 - 16 ft	2/14/2017	0.45	< 0.017 U	< 0.017 U	< 0.017 U	< 0.017 U	0.33	0.12	< 0.017 U	< 0.017 U	< 0.017 U
Football Field SW	SSHS-B653	SSHS-B653-SUB-14-16	14 - 16 ft	2/14/2017	0.354	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.28	0.074	< 0.018 U	< 0.018 U	< 0.018 U
South of Athletic Stands	SSHS-B657	SSHS-B657-SUB-14-16	14 - 16 ft	2/10/2017	0.045	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.023 J	0.022 J	< 0.018 U	< 0.018 U	< 0.018 U
South of Athletic Stands	SSHS-B657A	SSHS-B657A-SUB-14-16	14 - 16 ft	7/12/2017	0.0189	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.01 J	0.0089 J	< 0.018 U	< 0.018 U	< 0.018 U
A-Wing	SSHS-B658	SSHS-B658-SUB-14-16	14 - 16 ft	2/16/2017	0.028	< 0.017 U	< 0.017 U	< 0.017 U	< 0.017 U	0.017 J	0.011 J	< 0.017 U	< 0.017 U	< 0.017 U
A-Wing	SSHS-B659	SSHS-B659-SUB-14-16	14 - 16 ft	2/16/2017	0.0188	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.0094 J	0.0094 J	< 0.018 U	< 0.018 U	< 0.018 U
South of Athletic Stands	SSHS-B667	021117 09:30_SSHS-B667-SUB-14-16	14 - 16 ft	2/10/2017	0.997	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.71	0.24	0.047	< 0.018 U	< 0.018 U
Football Field SW	SSHS-B669	021617 08:35_SSHS-B669-SUB-14-16	14 - 16 ft	2/13/2017	0.345	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.22	0.11	0.015 J	< 0.018 U	< 0.018 U
A-Wing	SSHS-B670	021617 08:35_PS-FD-18	14 - 16 ft	2/14/2017	0.129	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	0.083 J	0.046 J	< 0.019 U	< 0.019 U	< 0.019 U
A-Wing	SSHS-B670	021617 08:35_SSHS-B670-SUB-14-16	14 - 16 ft	2/14/2017	0.097	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.067 J	0.03 J	< 0.018 U	< 0.018 U	< 0.018 U
South of Athletic Stands	SSHS-B671	021117 09:30_PS-FD-6	14 - 16 ft	2/10/2017	ND	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U
South of Athletic Stands	SSHS-B671	021117 09:30_SSHS-B671-SUB-14-16	14 - 16 ft	2/10/2017	ND	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U
South of Athletic Stands	SSHS-B671A	071317 07:30_SSHS-B671A-SUB-14-16	14 - 16 ft	7/12/2017	0.026	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.014 J	0.012 J	< 0.018 U	< 0.018 U	< 0.018 U
Main Parking Lot	SSHS-B679	032217 08:50_SSHS-B679-SUB-14-16	14 - 16 ft	3/21/2017	1.456	< 0.019 U,F1	< 0.019 U	< 0.019 U	< 0.019 U	1.1	0.3	0.056	< 0.019 U	< 0.019 U
Main Parking Lot	SSHS-B680	032117 09:20_SSHS-B680-SUB-14-16	14 - 16 ft	3/20/2017	ND	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U
Main Parking Lot	SSHS-B681	032117 09:20_SSHS-B681-SUB-14-16	14 - 16 ft	3/20/2017	ND	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U
South of Athletic Stands	SSHS-B685	032417 08:45_SSHS-B685-SUB-14-16	14 - 16 ft	3/23/2017	ND	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U

Table 9B
PCB results for Subsurface soils Remaining in Place
Former Sperry Remington Site - North Portion
Elmira, NY

					PCBs									
					Total PCBs	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Aroclor 1262	Aroclor 1268
					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Subsurface Soil Criteria					10									
NYS Hazardous Waste					50									
Site Location	Location	Sample Name	Sample Depth (ft bgs)	Sample Date										
South of Athletic Stands	SSHS-B685A	071317 07:30_SSHS-B685A-SUB-14-16	14 - 16 ft	7/12/2017	7.04	< 0.02 U	< 0.02 U	< 0.02 U	< 0.02 U	4.8	2	0.24	< 0.02 U	< 0.02 U
Main Parking Lot	SSHS-B697	032217 08:50_SSHS-B697-SUB-14-16	14 - 16 ft	3/21/2017	0.023	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	0.023	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U
Main Parking Lot	SSHS-B698	032117 09:20_SSHS-B698-SUB-14-16	14 - 16 ft	3/20/2017	ND	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U
Main Parking Lot	SSHS-B699	032217 08:50_SSHS-B699-SUB-14-16	14 - 16 ft	3/21/2017	0.0091	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.0091 J	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U
Main Parking Lot	SSHS-B716	032117 09:20_SSHS-B716-SUB-14-16	14 - 16 ft	3/20/2017	0.369	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.23	0.12	0.019	< 0.018 U	< 0.018 U
South of Athletic Stands	SSHS-B717	032417 08:45_SSHS-B717-SUB-14-16	14 - 16 ft	3/23/2017	ND	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U
South of Athletic Stands	SSHS-B717A	071317 07:30_SSHS-B717A-SUB-14-16	14 - 16 ft	7/12/2017	0.027	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	0.027	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U
Main Parking Lot	SSHS-B718	032217 08:50_SSHS-B718-SUB-14-16	14 - 16 ft	3/21/2017	0.0096	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.0096 J	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U
Main Parking Lot	SSHS-B718A	071317 07:30_SSHS-B718A-SUB-14-16	14 - 16 ft	7/12/2017	0.012	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.012 J	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U
South of Athletic Stands	SSHS-B719	SSHS-B719-SUB-14-16	14 - 16 ft	3/22/2017	4.23	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	1.9	1.7	0.63	< 0.019 U	< 0.019 U
South of Athletic Stands	SSHS-B730	SSHS-B730-SUB-14-16	14 - 16 ft	4/12/2017	ND	< 0.017 U	< 0.017 U	< 0.017 U	< 0.017 U	< 0.017 U	< 0.017 U	< 0.017 U	< 0.017 U	< 0.017 U
A-Wing	SSHS-B792	SSHS-B792-SUB-14-16	14 - 16 ft	5/16/2017	0.342	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	0.23	0.093	0.019	< 0.019 U	< 0.019 U
Main Parking Lot	SSHS-B799	SSHS-B799-SUB-14-16	14 - 16 ft	5/17/2017	0.047	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.033	0.014 J	< 0.018 U	< 0.018 U	< 0.018 U
South of Athletic Stands	SSHS-B800	SSHS-B800-SUB-14-16	14 - 16 ft	5/17/2017	0.206	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.16	0.046	< 0.018 U	< 0.018 U	< 0.018 U
A-Wing	SSHS-B803	SSHS-B803-SUB-14-16	14 - 16 ft	5/16/2017	0.011	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.011 J	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U
A-Wing	SSHS-B803A	SSHS-B803A-SUB-14-16	14 - 16 ft	7/12/2017	0.086	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.067	0.019	< 0.018 U	< 0.018 U	< 0.018 U
A-Wing	SSHS-B804	SSHS-B804-SUB-14-16	14 - 16 ft	5/16/2017	3.34	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	2.3	0.93	0.11	< 0.018 U	< 0.018 U
A-Wing	SSHS-B804A	SSHS-B804A-SUB-14-16	14 - 16 ft	7/12/2017	0.211	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.15	0.061	< 0.018 U	< 0.018 U	< 0.018 U
Tennis Court	SSHS-B819	DW-FD-2	14 - 16 ft	5/23/2017	ND	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U
Tennis Court	SSHS-B819	SSHS-B819-SUB-14-16	14 - 16 ft	5/23/2017	ND	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U
Tennis Court	SSHS-B821	DW-FD-1	14 - 16 ft	5/23/2017	ND	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U
Tennis Court	SSHS-B821	SSHS-B821-SUB-14-16	14 - 16 ft	5/23/2017	ND	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U
A-Wing	SSHS-B723	SSHS-B723-SUB-16-18	16 - 18 ft	4/13/2017	16.7	< 0.18 U	< 0.18 U	< 0.18 U	< 0.18 U	11	4.7	1	< 0.18 U	< 0.18 U
A-Wing	SSHS-B723	SSHS-B723-SUB-18-20	18 - 20 ft	4/13/2017	0.263	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.19	0.06	0.013 J	< 0.018 U	< 0.018 U

Notes
PCBs - Polychlorinated Biphenyls
mg/kg - milligrams per kilogram
ft bgs - Feet Below Ground Surface
J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U - non-detect at the value indicated
Analyte concentrations detected above Subsurface Soil Cleanup Objectives are presented in light gray
Analyte concentrations detected above New York State Hazardous Waste Criteria are presented in dark gray

Table 9C
PCB results for Subsurface Soils near Water Table Remaining in Place
Former Sperry Remington Site - North Portion
Elmira, NY

				PCBs									
				Total PCBs mg/kg	**Aroclor 1016** mg/kg	**Aroclor 1221** mg/kg	**Aroclor 1232** mg/kg	**Aroclor 1242** mg/kg	**Aroclor 1248** mg/kg	**Aroclor 1254** mg/kg	**Aroclor 1260** mg/kg	**Aroclor 1262** mg/kg	**Aroclor 1268** mg/kg
Protection of Groundwater SCO				3.2									
NYS Hazardous Waste				50									
Site Location	Location	Sample Depth (ft bgs)	Sample Date										
Football Field SW	SSHS-B621	14 - 16 ft	2/13/2017	0.056	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	0.029	0.027	< 0.019 U	< 0.019 U	< 0.019 U
South of Athletic Stands	SSHS-B624	14 - 16 ft	2/9/2017	ND	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U
South of Athletic Stands	SSHS-B630	14 - 16 ft	2/14/2017	0.216	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	0.17	0.046	< 0.019 U	< 0.019 U	< 0.019 U
A-Wing	SSHS-B630A	14 - 16 ft	7/12/2017	2.201	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	1.7	0.45	0.051	< 0.018 U	< 0.018 U
A-Wing	SSHS-B631	14 - 16 ft	2/16/2017	ND	< 0.017 U	< 0.017 U	< 0.017 U	< 0.017 U	< 0.017 U	< 0.017 U	< 0.017 U	< 0.017 U	< 0.017 U
Football Field SW	SSHS-B644	14 - 16 ft	2/9/2017	22.84	< 0.17 U	< 0.17 U	< 0.17 U	< 0.17 U	16	6.1	0.74	< 0.17 U	< 0.17 U
Football Field SW	SSHS-B645	14 - 16 ft	2/13/2017	0.078	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.046	0.032	< 0.018 U	< 0.018 U	< 0.018 U
Football Field SW	SSHS-B646	14 - 16 ft	2/13/2017	0.96	< 0.018 U	< 0.018 U	< 0.018 U	0.96	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U
A-Wing	SSHS-B647	14 - 16 ft	2/16/2017	14.29	< 0.18 U	< 0.18 U	< 0.18 U	< 0.18 U	11 J	2.7 J	0.59 J	< 0.18 U	< 0.18 U
A-Wing	SSHS-B647	14 - 16 ft	2/16/2017	14.33	< 0.089 U	< 0.089 U	< 0.089 U	< 0.089 U	11 J	2.8 J	0.53 J	< 0.089 U	< 0.089 U
Football Field SW	SSHS-B650	14 - 16 ft	2/14/2017	ND	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U
Football Field SW	SSHS-B651	14 - 16 ft	2/14/2017	ND	< 0.017 U	< 0.017 U	< 0.017 U	< 0.017 U	< 0.017 U	< 0.017 U	< 0.017 U	< 0.017 U	< 0.017 U
Football Field SW	SSHS-B652	14 - 16 ft	2/14/2017	0.45	< 0.017 U	< 0.017 U	< 0.017 U	< 0.017 U	0.33	0.12	< 0.017 U	< 0.017 U	< 0.017 U
Football Field SW	SSHS-B653	14 - 16 ft	2/14/2017	0.354	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.28	0.074	< 0.018 U	< 0.018 U	< 0.018 U
South of Athletic Stands	SSHS-B657	14 - 16 ft	2/10/2017	0.045	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.023 J	0.022 J	< 0.018 U	< 0.018 U	< 0.018 U
South of Athletic Stands	SSHS-B657A	14 - 16 ft	7/12/2017	0.0189	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.01 J	0.0089 J	< 0.018 U	< 0.018 U	< 0.018 U
A-Wing	SSHS-B658	14 - 16 ft	2/16/2017	0.028	< 0.017 U	< 0.017 U	< 0.017 U	< 0.017 U	0.017 J	0.011 J	< 0.017 U	< 0.017 U	< 0.017 U
A-Wing	SSHS-B659	14 - 16 ft	2/16/2017	0.0188	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.0094 J	0.0094 J	< 0.018 U	< 0.018 U	< 0.018 U
South of Athletic Stands	SSHS-B667	14 - 16 ft	2/10/2017	0.997	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.71	0.24	0.047	< 0.018 U	< 0.018 U
Football Field SW	SSHS-B669	14 - 16 ft	2/13/2017	0.345	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.22	0.11	0.015 J	< 0.018 U	< 0.018 U
A-Wing	SSHS-B670	14 - 16 ft	2/14/2017	0.129	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	0.083 J	0.046 J	< 0.019 U	< 0.019 U	< 0.019 U
A-Wing	SSHS-B670	14 - 16 ft	2/14/2017	0.097	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.067 J	0.03 J	< 0.018 U	< 0.018 U	< 0.018 U
South of Athletic Stands	SSHS-B671	14 - 16 ft	2/10/2017	ND	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U
South of Athletic Stands	SSHS-B671	14 - 16 ft	2/10/2017	ND	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U
South of Athletic Stands	SSHS-B671A	14 - 16 ft	7/12/2017	0.026	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.014 J	0.012 J	< 0.018 U	< 0.018 U	< 0.018 U
Main Parking Lot	SSHS-B679	14 - 16 ft	3/21/2017	1.456	< 0.019 U,F1	< 0.019 U	< 0.019 U	< 0.019 U	1.1	0.3	0.056	< 0.019 U	< 0.019 U
Main Parking Lot	SSHS-B680	14 - 16 ft	3/20/2017	ND	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U
Main Parking Lot	SSHS-B681	14 - 16 ft	3/20/2017	ND	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U
South of Athletic Stands	SSHS-B685	14 - 16 ft	3/23/2017	ND	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U
South of Athletic Stands	SSHS-B685A	14 - 16 ft	7/12/2017	7.04	< 0.02 U	< 0.02 U	< 0.02 U	< 0.02 U	4.8	2	0.24	< 0.02 U	< 0.02 U
Main Parking Lot	SSHS-B697	14 - 16 ft	3/21/2017	0.023	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	0.023	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U
Main Parking Lot	SSHS-B698	14 - 16 ft	3/20/2017	ND	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U
Main Parking Lot	SSHS-B699	14 - 16 ft	3/21/2017	0.0091	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.0091 J	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U
Main Parking Lot	SSHS-B716	14 - 16 ft	3/20/2017	0.369	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.23	0.12	0.019	< 0.018 U	< 0.018 U
South of Athletic Stands	SSHS-B717	14 - 16 ft	3/23/2017	ND	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U
South of Athletic Stands	SSHS-B717A	14 - 16 ft	7/12/2017	0.027	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	0.027	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U
Main Parking Lot	SSHS-B718	14 - 16 ft	3/21/2017	0.0096	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.0096 J	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U
Main Parking Lot	SSHS-B718A	14 - 16 ft	7/12/2017	0.012	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.012 J	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U
South of Athletic Stands	SSHS-B719	14 - 16 ft	3/22/2017	4.23	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	1.9	1.7	0.63	< 0.019 U	< 0.019 U
Tennis Court	SSHS-B72	11.5 - 13.5 ft	8/15/2014	ND	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U
A-Wing	SSHS-B723	16 - 18 ft	4/13/2017	16.7	< 0.18 U	< 0.18 U	< 0.18 U	< 0.18 U	11	4.7	1	< 0.18 U	< 0.18 U
A-Wing	SSHS-B723	18 - 20 ft	4/13/2017	0.263	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.19	0.06	0.013 J	< 0.018 U	< 0.018 U
Main Parking Lot	SSHS-B73	10 - 15 ft	8/13/2014	0.101	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	0.077	< 0.019 U	0.024	< 0.019 U	< 0.019 U
South of Athletic Stands	SSHS-B730	14 - 16 ft	4/12/2017	ND	< 0.017 U	< 0.017 U	< 0.017 U	< 0.017 U	< 0.017 U	< 0.017 U	< 0.017 U	< 0.017 U	< 0.017 U
Main Parking Lot	SSHS-B74	10 - 15 ft	8/13/2014	ND	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U
Tennis Court	SSHS-B75	10 - 15 ft	8/14/2014	ND	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017
Tennis Court	SSHS-B76	10 - 15 ft	8/14/2014	ND	< 0.018	< 0.018	< 0.018	< 0.018	< 0.018	< 0.018	< 0.018	< 0.018	< 0.018
Tennis Court	SSHS-B77	10 - 15 ft	8/14/2014	ND	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017	< 0.017
Main Parking Lot	SSHS-B78	10 - 15 ft	8/14/2014	ND	< 0.017 U	< 0.017 U	< 0.017 U	< 0.017 U	< 0.017 U	< 0.017 U	< 0.017 U	< 0.017 U	< 0.017 U
Main Parking Lot	SSHS-B79	10 - 15 ft	8/14/2014	ND	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U
A-Wing	SSHS-B792	14 - 16 ft	5/16/2017	0.342	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	0.23	0.093	0.019	< 0.019 U	< 0.019 U
Main Parking Lot	SSHS-B799	14 - 16 ft	5/17/2017	0.047	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.033	0.014 J	< 0.018 U	< 0.018 U	< 0.018 U
Main Parking Lot	SSHS-B80	10 - 14.5 ft	8/14/2014	ND	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U
South of Athletic Stands	SSHS-B800	14 - 16 ft	5/17/2017	0.206	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.16	0.046	< 0.018 U	< 0.018 U	< 0.018 U
A-Wing	SSHS-B803	14 - 16 ft	5/16/2017	0.011	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.011 J	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U
A-Wing	SSHS-B803A	14 - 16 ft	7/12/2017	0.086	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.067	0.019	< 0.018 U	< 0.018 U	< 0.018 U
A-Wing	SSHS-B804	14 - 16 ft	5/16/2017	3.34	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	2.3	0.93	0.11	< 0.018 U	< 0.018 U
A-Wing	SSHS-B804A	14 - 16 ft	7/12/2017	0.211	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	0.15	0.061	< 0.018 U	< 0.018 U	< 0.018 U
Tennis Court	SSHS-B819	14 - 16 ft	5/23/2017	ND	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U

Table 9C
PCB results for Subsurface Soils near Water Table Remaining in Place
Former Sperry Remington Site - North Portion
Elmira, NY

				PCBs									
				Total PCBs mg/kg	**Aroclor 1016** mg/kg	**Aroclor 1221** mg/kg	**Aroclor 1232** mg/kg	**Aroclor 1242** mg/kg	**Aroclor 1248** mg/kg	**Aroclor 1254** mg/kg	**Aroclor 1260** mg/kg	**Aroclor 1262** mg/kg	**Aroclor 1268** mg/kg
Protection of Groundwater SCO				3.2									
NYS Hazardous Waste				50									
Site Location	Location	Sample Depth (ft bgs)	Sample Date										
Tennis Court	SSHS-B819	14 - 16 ft	5/23/2017	ND	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U
Main Parking Lot	SSHS-B82	10 - 15 ft	8/13/2014	ND	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U
Tennis Court	SSHS-B821	14 - 16 ft	5/23/2017	ND	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U
Tennis Court	SSHS-B821	14 - 16 ft	5/23/2017	ND	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U
Main Parking Lot	SSHS-B83	10 - 14.5 ft	8/13/2014	ND	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U
Main Parking Lot	SSHS-B85	10 - 15 ft	8/13/2014	ND	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U
Main Parking Lot	SSHS-B85	10 - 15 ft	8/13/2014	ND	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U
Main Parking Lot	SSHS-B86	10 - 15 ft	8/13/2014	ND	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U
Main Parking Lot	SSHS-B87	10 - 15 ft	8/14/2014	ND	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U
Main Parking Lot	SSHS-B88	10 - 15 ft	8/13/2014	ND	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U
Main Parking Lot	SSHS-B89	10 - 15 ft	8/13/2014	ND	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U
Main Parking Lot	SSHS-B90	10 - 15 ft	8/13/2014	ND	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U	< 0.018 U
Main Parking Lot	SSHS-B91	10 - 15 ft	8/13/2014	ND	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U	< 0.019 U

Notes
PCBs - Polychlorinated Biphenyls
mg/kg - milligrams per kilogram
ft bgs - Feet Below Ground Surface
J - Result is less than the RL but greater than or equal to the MDL and the concentration is an
U - non-detect at the value indicated
Analyte concentrations detected above Protection of Groundwater Soil Cleanup Objectives (SCOs) are presented in light gray.
SCOs are derived from 6 NYCRR Part 375 (effective 14 December 2006) that was in effect during the performanace of the IRM.
Analyte concentrations detected above New York State Hazardous Waste Criteria are presented in dark gray

TABLE 9D
Other COPCs - Remaining

Former Sperry Remington Site - North Portion
Elmira, New York

			LocCode	SSHS-B15	SSHS-B70	SSHS-B70	SSHS-B70	SSHS-B8
			Sample Depth	4-5	2-6	6-10	10-14	4-5
			Sampled Date	5/10/2000	8/14/2014	8/14/2014	8/14/2014	5/11/2000
COPC	**Analyte**	**Units**	Restricted - Residential SCO					
SVOCs	1,1-Biphenyl	mg/kg		-	<0.032U	<0.17U	<0.033U	-
	1,2,4,5-tetrachlorobenzene	mg/kg		-	<0.028U	<0.14U	<0.028U	-
	1,4-Dioxane	mg/kg	13	-	<0.042U	<0.21U	<0.043U	-
	2,3,4,6-tetrachlorophenol	mg/kg		-	<0.023U	<0.12U	<0.024U	-
	2,4,5-trichlorophenol	mg/kg		-	<0.039U	<0.2U	<0.04U	-
	2,4,6-trichlorophenol	mg/kg		-	<0.054U	<0.28U	<0.056U	-
	2,4-dichlorophenol	mg/kg		-	<0.0073U	<0.037U	<0.0075U	-
	2,4-dimethylphenol	mg/kg		-	<0.057U	<0.29U	<0.058U	-
	2,4-dinitrophenol	mg/kg		-	<0.43U	<2.2U	<0.44U	-
	2,4-Dinitrotoluene	mg/kg		-	<0.029U	<0.15U	<0.03U	-
	2,6-dinitrotoluene	mg/kg		-	<0.038U	<0.19U	<0.038U	-
	2-chloronaphthalene	mg/kg		-	<0.0076U	<0.039U	<0.0078U	-
	2-chlorophenol	mg/kg		-	<0.03U	<0.15U	<0.03U	-
	2-methylnaphthalene	mg/kg		-	0.17	<0.2J	<0.0067U	-
	2-methylphenol	mg/kg	100	<0.39U	<0.025U	<0.13U	<0.026U	<0.37U
	2-nitroaniline	mg/kg		-	<0.16U	<0.83U	<0.17U	-
	2-nitrophenol	mg/kg		-	<0.04U	<0.2U	<0.041U	-
	3,3-Dichlorobenzidine	mg/kg		-	<0.038U	<0.2U	<0.039U	-
	3-nitroaniline	mg/kg		-	<0.15U	<0.76U	<0.15U	-
	4,6-Dinitro-2-methylphenol	mg/kg		-	<0.15U	<0.75U	<0.15U	-
	4-bromophenyl phenyl ether	mg/kg		-	<0.032U	<0.16U	<0.032U	-
	4-chloro-3-methylphenol	mg/kg		-	<0.033U	<0.17U	<0.034U	-
	4-chloroaniline	mg/kg		-	<0.029U	<0.15U	<0.03U	-
	4-chlorophenyl phenyl ether	mg/kg		-	<0.04U	<0.21U	<0.041U	-
	4-methylphenol	mg/kg	100	<0.39U	<0.036U	<0.18U	<0.036U	<0.37U
	4-nitroaniline	mg/kg		-	<0.15U	<0.75U	<0.15U	-
	4-nitrophenol	mg/kg		-	<0.13U	<0.68U	<0.14U	-
	Acenaphthene	mg/kg	100	<0.39U	0.14	0.54	<0.0072U	<0.37U
	Acenaphthylene	mg/kg	100	0.22J	0.42	<0.062J	<0.0085U	<0.37U
	Acetophenone	mg/kg		-	<0.03U	<0.15U	<0.031U	-
	Anthracene	mg/kg	100	0.26J	0.46	2.5	<0.0073U	<0.37U
	Atrazine	mg/kg		-	<0.035U	<0.18U	<0.036U	-
	Benz(a)anthracene	mg/kg	1	0.96	1.3	6.7	<0.0093U	<0.37U
	Benzaldehyde	mg/kg		-	<0.055U	<0.28U	<0.056U	-
	Benzo(a) pyrene	mg/kg	1	1.3	1.3	5.8	<0.0075U	<0.37U
	Benzo(b)fluoranthene	mg/kg	1	1.9	1.5	6.9	<0.012U	<0.37U
	Benzo(g,h,i)perylene	mg/kg	100	0.96	1.1	4.2	<0.0074U	<0.37U
	Benzo(k)fluoranthene	mg/kg	3.9	1.2	0.69	2.6	<0.015U	<0.37U
	Bis(2-chloroethoxy) methane	mg/kg		-	<0.024U	<0.12U	<0.025U	-
	Bis(2-chloroethyl)ether	mg/kg		-	<0.0098U	<0.05U	<0.01U	-
	Bis(2-chloroisopropyl) ether	mg/kg		-	<0.0079U	<0.04U	<0.008U	-
	Bis(2-ethylhexyl) phthalate	mg/kg		-	<0.059U	<0.3U	<0.06U	-
	Butyl benzyl phthalate	mg/kg		-	<0.05U	<0.25U	<0.051U	-
	Caprolactam	mg/kg		-	<0.27U	<1.4U	<0.28U	-
	Carbazole	mg/kg		-	0.13	0.64	<0.0069U	-
	Chrysene	mg/kg	3.9	1.5	1.4	6.4	<0.0089U	<0.37U
	Dibenz(a,h)anthracene	mg/kg	0.33	0.36J	0.23	0.93	<0.0083U	<0.37U
	Dibenzofuran	mg/kg	59	<0.39U	<0.11J	<0.32J	<0.037U	<0.37U
	Diethylphthalate	mg/kg		-	<0.04U	<0.2U	<0.041U	-
	Dimethyl phthalate	mg/kg		-	<0.04U	<0.2U	<0.041U	-
	Di-n-butyl phthalate	mg/kg		-	<0.046U	<0.23U	<0.047U	-
	Di-n-octyl phthalate	mg/kg		-	<0.038U	<0.2U	<0.039U	-
	Fluoranthene	mg/kg	100	1.1	2	15	<0.008U	0.042J
	Fluorene	mg/kg	100	<0.39U	0.14	0.65	<0.0098U	<0.37U
	Hexachlorobenzene	mg/kg	1.2	<0.39U	<0.0078U	<0.04U	<0.0079U	<0.37U
	Hexachlorobutadiene	mg/kg		-	<0.0081U	<0.042U	<0.0083U	-
	Hexachlorocyclopentadiene	mg/kg		-	<0.039U	<0.2U	<0.04U	-
	Hexachloroethane	mg/kg		-	<0.026U	<0.13U	<0.027U	-
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.5	0.87	0.92	3.7	<0.0077U	<0.37U
	Isophorone	mg/kg		-	<0.027U	<0.14U	<0.028U	-
	Naphthalene	mg/kg	100	0.06J	0.2	<0.26J	<0.0064U	<0.37U
	Nitrobenzene	mg/kg		-	<0.03U	<0.15U	<0.031U	-
	N-nitrosodi-n-propylamine	mg/kg		-	<0.0085U	<0.044U	<0.0087U	-
	n-Nitrosodiphenylamine	mg/kg		-	<0.034U	<0.17U	<0.034U	-
	Pentachlorophenol	mg/kg	6.7	<0.93U	<0.033U	<0.17U	<0.033U	<0.88U
	Phenanthrene	mg/kg	100	0.24J	1.1	7.7	<0.012U	<0.37U
	Phenol	mg/kg	100	<0.39U	<0.0086U	<0.044U	<0.0088U	<0.37U
	Pyrene	mg/kg	100	1.7	2	11	<0.0075U	<0.37U
VOCs	1,1,1-trichloroethane	mg/kg	100	<0.0058U	<0.00053U	<0.00052U	<0.00042U	<0.0055U
	1,1,2,2-tetrachloroethane	mg/kg		-	<0.00079U	<0.00076U	<0.00062U	-
	1,1,2-trichloroethane	mg/kg		-	<0.00091U	<0.00088U	<0.00072U	-
	1,1-dichloroethane	mg/kg	26	<0.0058U	<0.00063U	<0.00061U	<0.0005U	<0.0055U
	1,1-dichloroethene	mg/kg	100	<0.0058U	<0.00093U	<0.0009U	<0.00074U	<0.0055U
	1,2,3-trichlorobenzene	mg/kg		-	<0.00093U	<0.0009U	<0.00073U	-
	1,2,4-trichlorobenzene	mg/kg		-	<0.00097U	<0.00094U	<0.00077U	-
	1,2-dibromo-3-chloropropane	mg/kg		-	<0.00082U	<0.00079U	<0.00065U	-
	1,2-dibromoethane	mg/kg		-	<0.00095U	<0.00092U,*	<0.00075U,*	-
	1,2-dichlorobenzene	mg/kg	100	<0.39U	<0.00087U	<0.00085U	<0.00069U	<0.37U
	1,2-dichloroethane	mg/kg	3.1	<0.0058U	<0.00067U	<0.00065U	<0.00053U	<0.0055U
	1,2-dichloropropane	mg/kg		-	<0.0006U	<0.00058U	<0.00047U	-
	1,3-dichlorobenzene	mg/kg	49	<0.39U	<0.00072U	<0.0007U	<0.00057U	<0.37U
	1,4-dichlorobenzene	mg/kg	13	<0.39U	<0.0007U	<0.00068U	<0.00055U	<0.37U

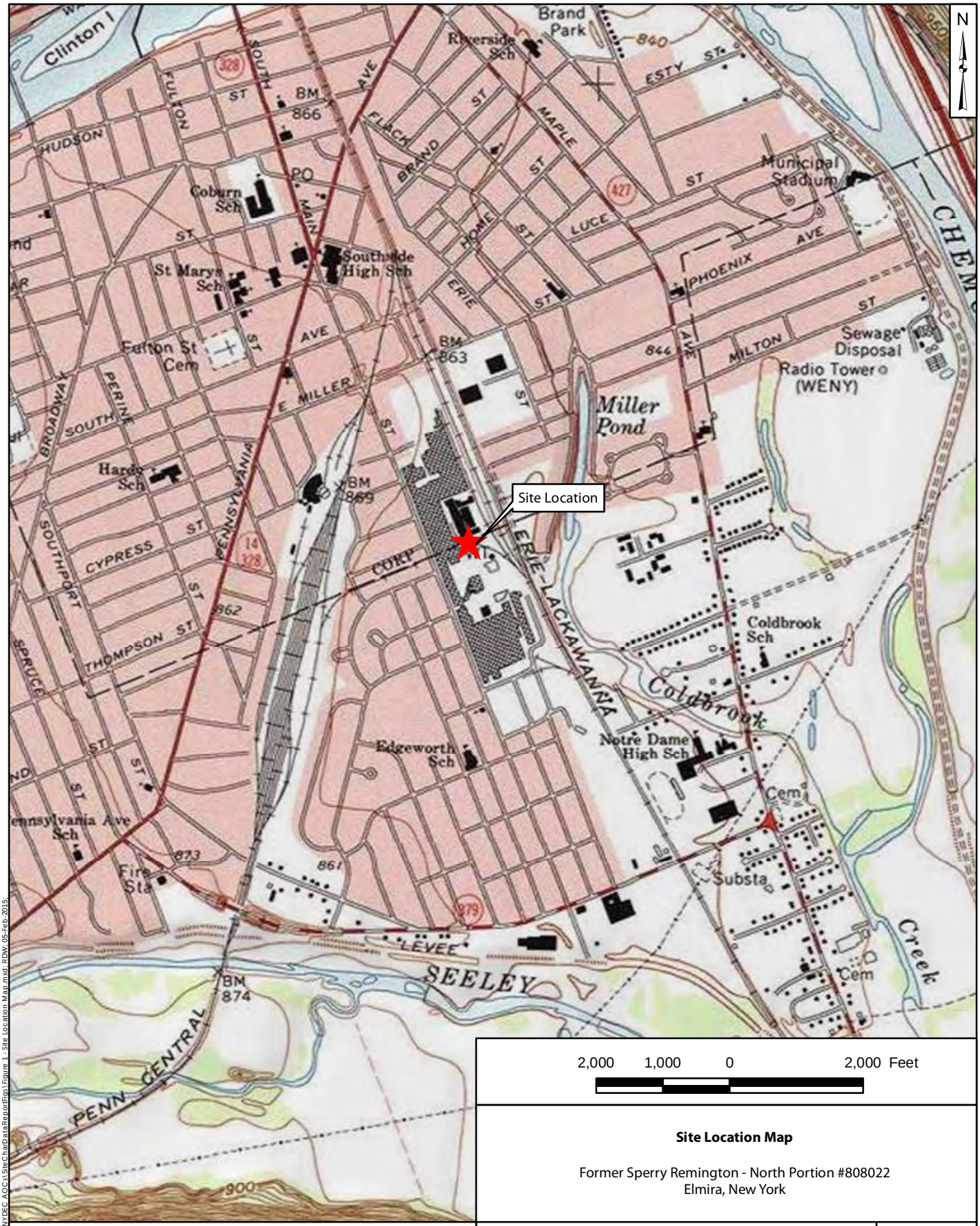
TABLE 9D
Other COPCs - Remaining

Former Sperry Remington Site - North Portion
Elmira, New York

			LocCode	SSHS-B15	SSHS-B70	SSHS-B70	SSHS-B70	SSHS-B8
			Sample Depth	4-5	2-6	6-10	10-14	4-5
			Sampled Date	5/10/2000	8/14/2014	8/14/2014	8/14/2014	5/11/2000
COPC	**Analyte**	**Units**	Restricted - Residential SCO					
VOCs	1,4-Dioxane	mg/kg	13	-	<0.3U	-	<0.24U	-
	Methyl Ethyl Ketone	mg/kg	100	<0.012U	<0.00097U	<0.00093U	<0.00077U	<0.011U
	2-hexanone (MBK)	mg/kg		-	<0.00076U	<0.00073U	<0.0006U	-
	4-Methyl-2-pentanone	mg/kg		-	<0.00072U	<0.00069U,*	<0.00057U,*	-
	Acetone	mg/kg	100	<0.023U	<0.0055U	<0.0053U	<0.0043U	<0.022U
	Benzene	mg/kg	4.8	<0.0056U	<0.00074U	<0.00072U	<0.00059U	<0.0055U
	Bromochloromethane	mg/kg		-	<0.00075U	<0.00073U	<0.0006U	-
	Bromodichloromethane	mg/kg		-	<0.00062U	<0.0006U	<0.00049U	-
	Bromoform	mg/kg		-	<0.00048U	<0.00047U	<0.00038U	-
	Bromomethane	mg/kg		-	<0.00081U	<0.00078U	<0.00064U	-
	Carbon disulfide	mg/kg		-	<0.00056U	<0.00054U	<0.00044U	-
	Carbon tetrachloride	mg/kg	2.4	<0.0058U	<0.00049U	<0.00047U	<0.00039U	<0.0055U
	Chlorobenzene	mg/kg	100	<0.0058U	<0.00083U	<0.0008U	<0.00066U	<0.0055U
	Chlorodibromomethane	mg/kg		-	<0.00078U	<0.00075U	<0.00062U	-
	Chloroethane	mg/kg		-	<0.0017U	<0.0016U	<0.0013U	-
	Chloroform	mg/kg	49	<0.0058U	<0.00064U	<0.00062U	<0.00051U	0.0013J
	Chloromethane	mg/kg		-	<0.00093U	<0.0009U	<0.00074U	-
	cis-1,2-dichloroethene	mg/kg	100	<0.0058U	<0.00077U	<0.00075U	<0.00061U	<0.0055U
	cis-1,3-dichloropropene	mg/kg		-	<0.00074U	<0.00072U,*	<0.00059U,*	-
	Cyclohexane	mg/kg		-	<0.00041U	<0.00039U	<0.00032U	-
	Dichlorodifluoromethane	mg/kg		-	<0.00073U	<0.00071U	<0.00058U	-
	Dichloromethane	mg/kg	100	<0.0058U	<0.00074U	<0.00071U	<0.00058U	<0.0055U
	Ethylbenzene	mg/kg	41	<0.0058U	<0.0007U	<0.00068U	<0.00056U	<0.0055U
	Isopropylbenzene	mg/kg		-	<0.00074U	<0.00072U	<0.00059U	-
	Methyl-tert-butyl ether	mg/kg	100	-	<0.00082U	<0.00079U	<0.00065U	-
	Styrene	mg/kg		-	<0.00077U	<0.00075U	<0.00061U	-
	Trichloroethene	mg/kg	21	<0.0058U	<0.00072U	<0.0007U	<0.00057U	0.0022J
	Tetrachloroethene	mg/kg	19	0.012	<0.00075U	<0.00072U	<0.00059U	0.0029J
	Toluene	mg/kg	100	<0.0058U	<0.0008U	<0.00077U	<0.00063U	<0.0055U
	trans-1,2-dichloroethene	mg/kg	100	<0.0058U	<0.00065U	<0.00063U	<0.00052U	<0.0055U
	trans-1,3-dichloropropene	mg/kg		-	<0.00066U	<0.00063U	<0.00052U	-
	Trichlorofluoromethane	mg/kg		-	<0.001U	<0.00097U	<0.0008U	-
	Vinyl chloride	mg/kg	0.9	<0.0058U	<0.00051U	<0.0005U	<0.00041U	<0.0055U
	Xylene (m & p)	mg/kg		<0.0058U	<0.0016U	<0.0016U	<0.0013U	<0.0055U
	Xylene (o)	mg/kg		<0.0058U	<0.00085U	<0.00083U	<0.00068U	<0.0055U
Metals and Inorganics	Cyanide Total	mg/kg	27	15	<0.55U	1.2B	<0.58U	<1.11U
	Aluminum	mg/kg		-	7600	7200	5800	-
	Antimony	mg/kg		-	<0.22U	<0.61J	<0.28J	-
	Arsenic	mg/kg	16	9.1	8.3	8.1	5.5	7.4
	Barium	mg/kg	400	<611U	92	190	74	426
	Beryllium	mg/kg	72	<0.57U	<0.39J	<0.38J	<0.26J	<0.53U
	Cadmium	mg/kg	4.3	<0.57U	<0.016U	<0.55U	<0.015U	<0.53U
	Calcium	mg/kg		-	11,000	19,000	17,000	-
	Chromium (III+VI)	mg/kg	110	21.4	11	39	7.5	12.9
	Cobalt	mg/kg		-	6.2	6.2	5.5	-
	Copper	mg/kg	270	85.2	26	75	18	243
	Iron	mg/kg		-	17,000B	20,000B	14,000B	-
	Lead	mg/kg	400	149	35	160	23	286
	Magnesium	mg/kg		-	3300	3300	4500	-
	Manganese	mg/kg	2000	-	450	430	360	-
	Nickel	mg/kg	310	38	28	100	13	202
	Potassium	mg/kg		-	630B	730B	660B	-
	Selenium	mg/kg	180	0.89	<0.61J	<0.73J	<0.31J	<0.53U
	Silver	mg/kg	180	<1.1U	<0.045U	<0.044U	<0.043U	<1.1U
	Sodium	mg/kg		-	<63J	<150J	<87J	-
	Thallium	mg/kg		-	<0.16U	<0.16U	<0.16U	-
	Vanadium	mg/kg		-	15	14	11	-
	Zinc	mg/kg	10000	205	66B	98B	53B	145
	Mercury	mg/kg	0.81	<0.06U	0.046	0.099	0.11	<0.05U
Pesticides	4,4-DDE	mg/kg	8.9	<0.002U	<0.00027U	<0.00028U	<0.00028U	<0.0019U
	a-BHC	mg/kg	0.48	<0.002U	<0.0003U	<0.0003U	<0.0003U	<0.0019U
	Aldrin	mg/kg	0.097	<0.002U	<0.027U	<0.22U	<0.00033U	<0.0019U
	b-BHC	mg/kg	0.36	<0.002U	<0.007U	<0.043U	<0.00048U	<0.0019U
	Chlordane (cis)	mg/kg	4.2	-	<0.0019U	<0.012U	<0.0019U	-
	Chlordane (trans)	mg/kg		-	<0.064U	<0.23U	<0.069U	-
	d-BHC	mg/kg	100	<0.002U	<0.00028U	<0.00028U	<0.0019U	<0.0019U
	DDD	mg/kg	13	<0.002U	<0.0048U	<0.036U	<0.0069U	<0.0019U
	DDT	mg/kg	7.9	<0.0039U	<0.0073U	<0.053U	<0.031U	<0.0037U
	Dieldrin	mg/kg	0.2	<0.002U	<0.0003U	<0.021U	0.0066	<0.0019U
	Endosulfan I	mg/kg	24	<0.002U	0.0047	0.039	0.007	<0.0019U
	Endosulfan II	mg/kg	24	<0.0039U	<0.0019U	<0.0055U	<0.0019U	<0.0037U
	Endosulfan sulphate	mg/kg	24	<0.0039U	<0.0027U	<0.018U	<0.0052U	<0.0037U
	Endrin	mg/kg	11	<0.002U	<0.016U	<0.15U	<0.098U	<0.0019U
	Endrin aldehyde	mg/kg		-	0.0033	0.024	<0.00036U	-
	Endrin ketone	mg/kg		-	<0.0023U	<0.016U	<0.0019U	-
	g-BHC (Lindane)	mg/kg	1.3	-	<0.0019U	<0.02U	<0.00033U	-
	Heptachlor	mg/kg	2.1	<0.002U	<0.018U	<0.062U	<0.00041U	<0.0019U
	Heptachlor epoxide	mg/kg		-	<0.051U	<0.42U	<0.013U	-
	Methoxychlor	mg/kg		-	<0.018U	<0.26U	<0.0037U	-
	Toxaphene	mg/kg		-	<0.012U	<0.012U	<0.012U	-

Notes:
J - estimated value
U - non-detect
mg/kg - milligram per kilogram
ft bgs - feet below ground surface
COPC - Constituent of potential concern
Concentrations detected above Restricted Residential SCOs are presented in grey, as applicable. SCOs are derived from 6 NYCRR Part 375 (effective 14 December 2006) that was in effect during the performanace of the IRM.

FIGURES



Site Location Map

Former Sperry Remington - North Portion #808022
Elmira, New York

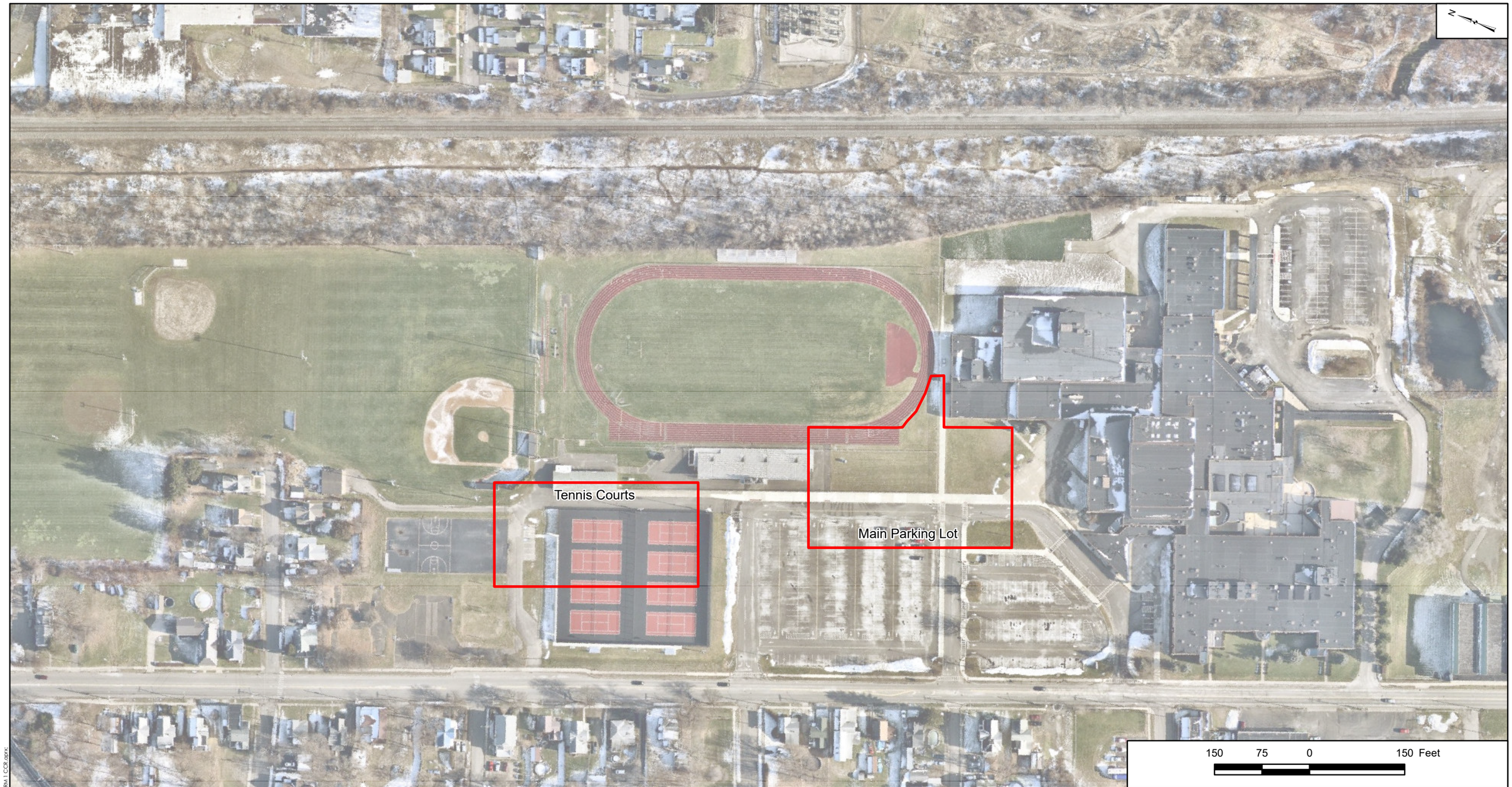
Notes:
Topographic map accessed via ArcGIS Online and provided by National Geographic Society and i-cubed on 5 February 2015. Elmira, New York Quadrangle (1971, photorevised 1976) is shown.

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Figure 1

P:\GIS\Elmira - MW0832\Maps\NYDEC AOC's\SiteCharData\ReportFigs\Figure 1 - Site Location Map.mxd; ROW; 05-Feb-2015;



150 75 0 150 Feet

Notes

Aerial imagery source: Nearmap, captured December 9, 2018.

Site Map

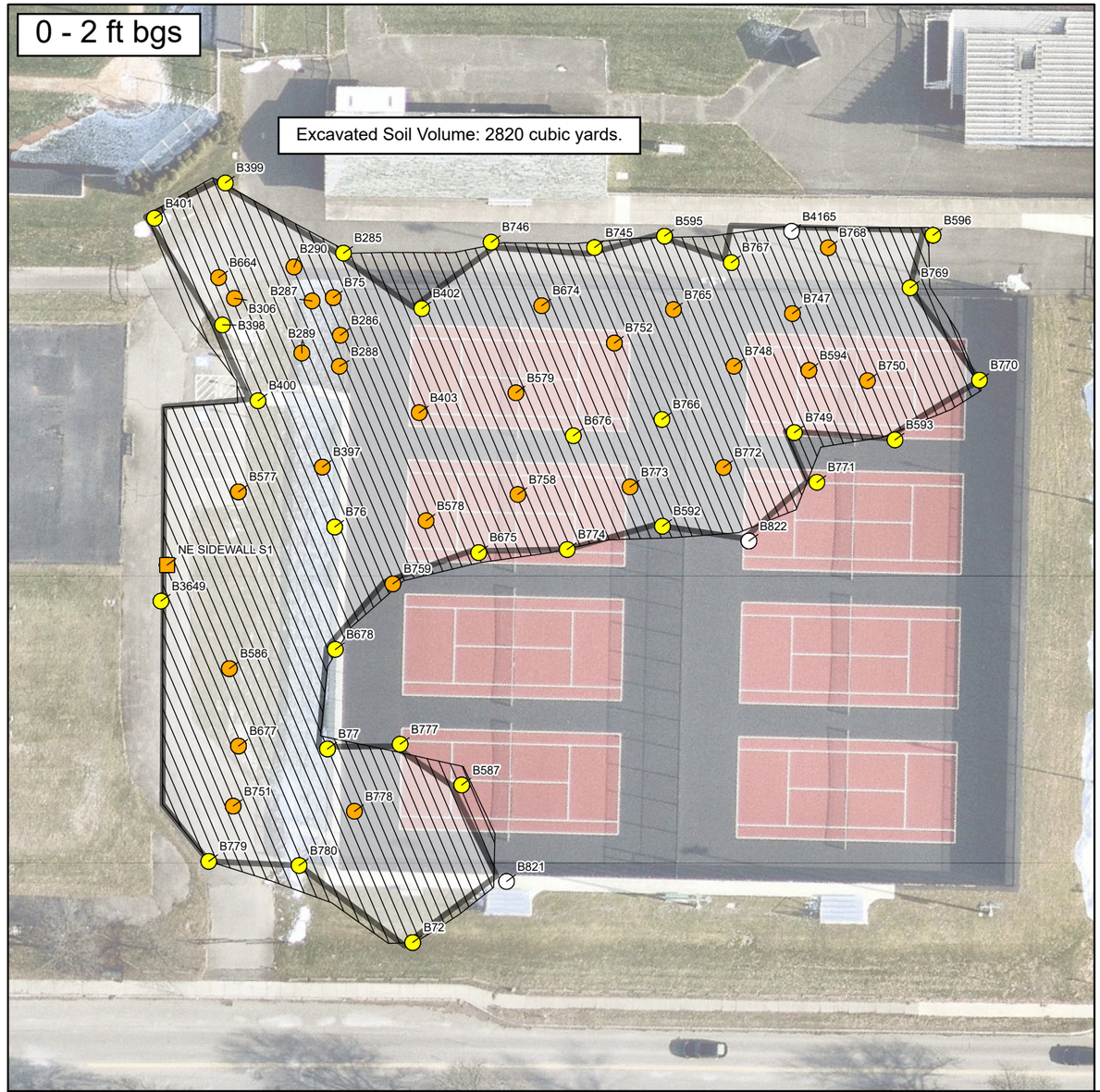
Former Sperry Remington - North Portion #808022
Elmira, New York

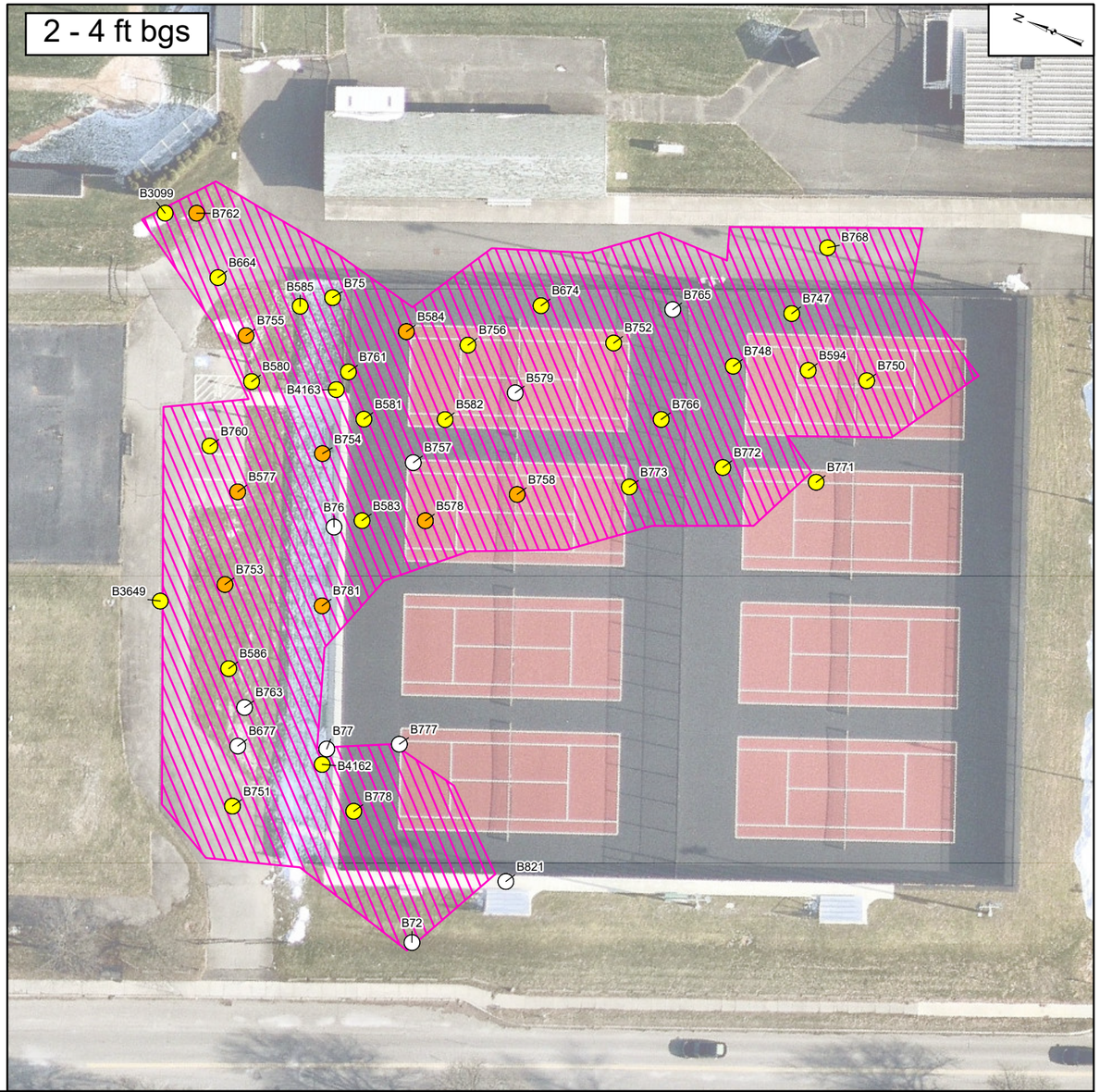
Geosyntec consultants

Blue Bell, PA | June 2026

Figure **2**

P:\GIS\GISprojects\MN08321 - Elmira\Projects\Elmira IRM 1 CCR\IRM 1 CCR.aprx;





Legend

PCB Concentration

- >50 mg/kg
- >10 to 50 mg/kg
- >1 to 10 mg/kg
- >0 to 1 mg/kg
- Non-Detect
- Documentation (Pre-Delineation) Sample
- Post-Excavation Confirmation Sample
- Proposed Limits of Excavation
- As-Built Excavation (0-2 ft bgs)
- As-Built Excavation Bottom (2 ft bgs)

Notes
PCB - Polychlorinated Biphenyl
ft bgs - Feet below ground surface
mg/kg - milligram per kilogram

"SSHS-" prefix removed from location identification.

Screening criteria of soil above 2 feet bgs is the Restricted Residential Soil Cleanup Objective of 1 mg/kg (6 NYCRR Part 375).

Aerial imagery source: Nearmap, captured December 9, 2018.

50 25 0 50 Feet

IRM Excavation - Tennis Courts

Former Sperry Remington - North Portion #808022
Elmira, New York

Geosyntec consultants

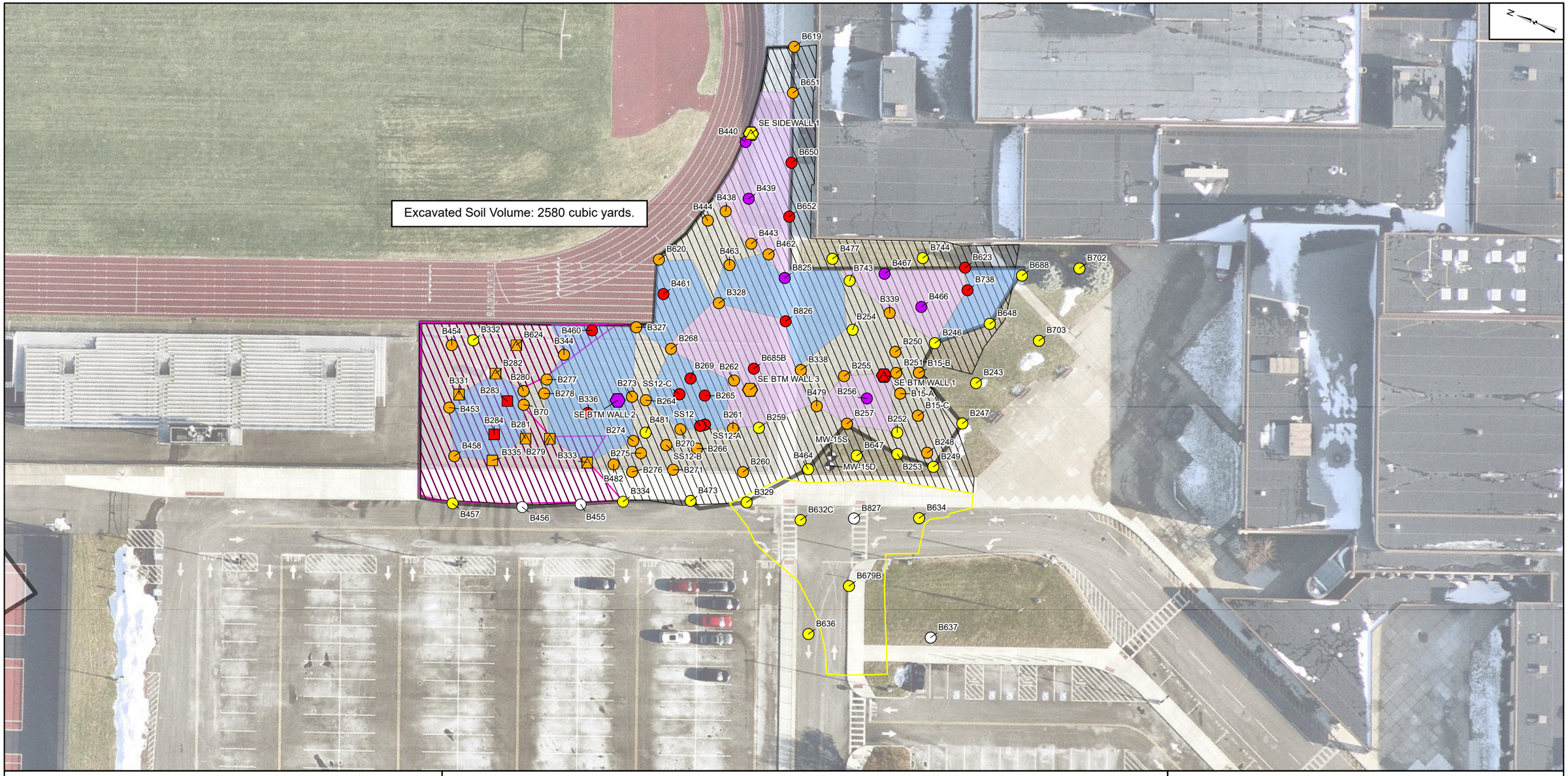
Blue Bell, PA | June 2026

Figure 3

P:\GIS\GISprojects\MH03821 - Elmira\Projects\Elmira IRM 1 CCR\IRM 1 CCR.aprx

Excavated Soil Volume: 2580 cubic yards.

B619 B651 SE SIDEWALL 1 B440 B650 B439 B438 B444 B652 B443 B462 B620 B463 B477 B744 B623 B688 B702 B825 B743 B467 B738 B461 B328 B339 B466 B826 B254 B648 B703 B454 B332 B624 B460 B327 B344 B268 B246 B250 B282 B269 B262 B685B B338 B255 B251 B15-B B243 B331 B280 B277 B283 B278 B273 SS12-C SE BTM WALL 3 B479 B256 SE BTM WALL 1 B15-A B453 B70 B336 B264 B265 B15-C B247 B284 B281 SE BTM WALL 2 B481 SS12 B261 B259 B257 B252 B274 SS12-A MW-15S B647 B248 B458 B335 B279 B333 B275 B270 B266 SS12-B B260 B464 B249 MW-15D B253 B482 B276 B271 B334 B473 B329 B457 B456 B455 B632C B827 B634 B679B B636 B637



Legend

PCB Concentration

- >50 mg/kg
- >10 to 50 mg/kg
- >1 to 10 mg/kg
- >0 to 1 mg/kg
- Non-Detect
- Sidewall Sample (0-2 ft bgs)
- Excavation Bottom (2-4 ft bgs)
- Post-Ex Sample
- Monitoring Well (Decommissioned)

Waste Segregation Areas

- Non-Hazardous Waste
- PCB Remediation Waste
- Proposed Limits of Excavation
- Overall Extent of Excavation (As-Built)
- As-Built Excavation (0-2 ft bgs)
- As-Built Excavation Bottom (2 ft bgs)

Notes
PCB - Polychlorinated Biphenyl
ft bgs - Feet below ground surface
mg/kg - milligram per kilogram

"SSHS-" prefix removed from location identification.

PCB Remediation Waste – Total PCB concentration of fifty (50) mg/kg or greater as defined in 40 CFR §761.3 (TSCA)
Non-Hazardous Waste - Total PCB concentration greater than ten (10) mg/kg and less than fifty (50) mg/kg

Cleanup level of soil above 2 feet bgs is the Restricted Residential Soil Cleanup Objective of 1 mg/kg (6 NYCRR Part 375)

Aerial imagery source: Nearmap, captured December 9, 2018.

50 25 0 50 Feet

IRM Excavation - Main Parking Lot - 0-2 ft bgs

Former Sperry Remington - North Portion #808022
Elmira, New York

Geosyntec consultants

Blue Bell, PA | June 2026

Figure 4

P:\GIS\GISprojects\MH08321 - Bmiro\Project\Elmira RA 1 CCR\RA 1 CCR.aprx

Estimated Soil with PCBs Remaining: 2580 cubic yards.

Excavated Soil Volume: 430 cubic yards.

Legend

PCB Concentration

- >50 mg/kg
- >10 to 50 mg/kg
- >1 to 10 mg/kg
- >0 to 1 mg/kg
- Non-Detect
- Sidewall Sample (2-4 ft bgs)
- Excavation Bottom (4-6 ft bgs)
- Monitoring Well (Decommissioned)
- Estimated Limit of PCB Remediation Waste
- Proposed Limits of Excavation
- Overall Extent of Excavation (As-Built)
- As-Built Excavation (2-4 ft bgs)

Notes

PCB - Polychlorinated Biphenyl
ft bgs - Feet below ground surface
mg/kg - milligram per kilogram

"SSHS-" prefix removed from location identification.

PCB Remediation Waste – Total PCB concentration of fifty (50) mg/kg or greater as defined in 40 CFR §761.3 (TSCA)

Proposed Cleanup Level – Total PCB concentration of ten (10) mg/kg

The extent of PCB Remediation Waste may be revised based on future pre-delineation sampling or confirmation sampling of excavation side walls and bottom at frequencies in a ccordance with Section 5.4 (b) of DER-10

Aerial imagery source: Nearmap, captured December 9, 2018.

50 25 0 50 Feet

IRM Excavation - Main Parking Lot - 2-4 ft bgs

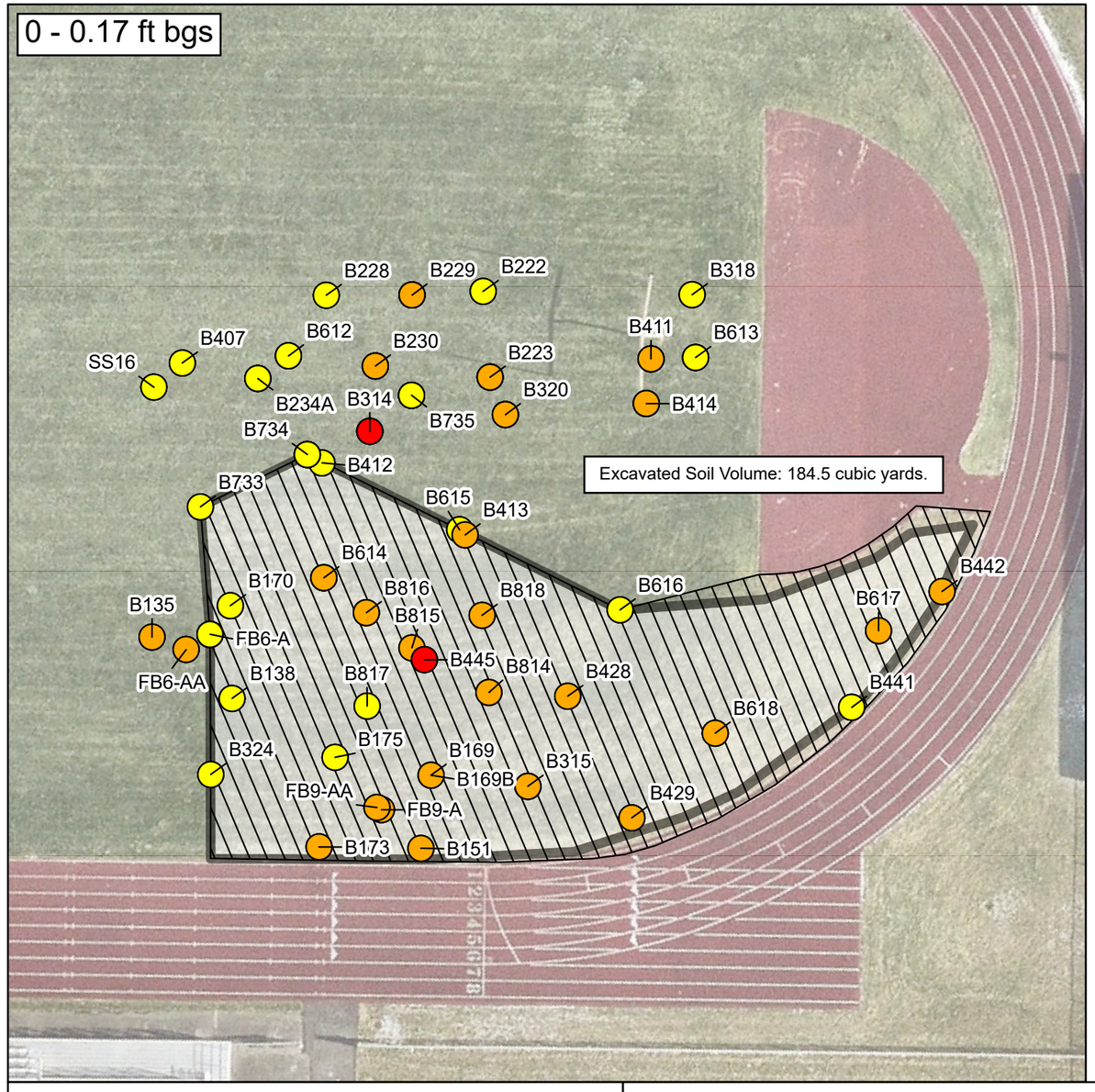
Former Sperry Remington - North Portion #808022
Elmira, New York

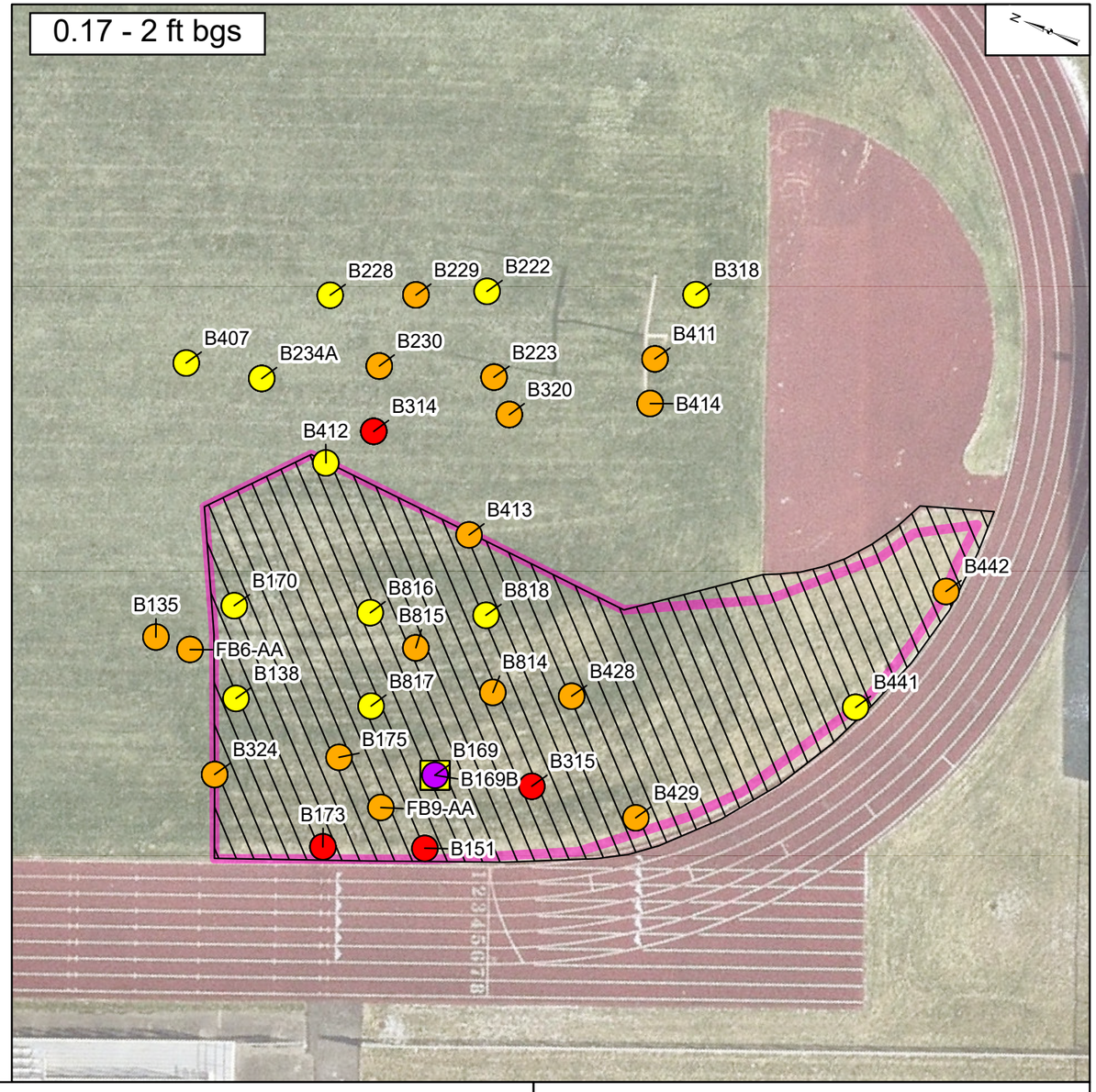
Geosyntec consultants

Blue Bell, PA | June 2026

Figure 5

P:\GIS\GISprojects\MH08021 - Elmira\Projects\Elmira IRM 1 CCR\IRM 1 CCR.aprx





Legend

PCB Concentration

- >50 mg/kg
- >10 to 50 mg/kg
- >1 to 10 mg/kg
- >0 to 1 mg/kg
- Non-Detect
- Pre-Delineation Sample
- Re-Sample
- Proposed Limits of Excavation
- As-Built Excavation (0-0.5 ft bgs)
- Proposed Excavation Bottom (0.5 ft bgs)

Notes
PCB - Polychlorinated Biphenyl
ft bgs - Feet below ground surface
mg/kg - milligram per kilogram

"SSHS-" prefix removed from location identification.

Aerial imagery source: Nearmap, captured December 9, 2018.

30 15 0 30 Feet

STRA Excavation - Football Field

Former Sperry Remington - North Portion #808022
Elmira, New York

Geosyntec consultants

Blue Bell, PA | June 2026

Figure 6

P:\GIS\GISprojects\MN08321 - Elmira\Projects\Elmira IRM 1 CCR\IRM 1 CCR.aprx

Estimated Soil with PCBs Remaining: 1940 cubic yards.

B619 B651 B440 B650 B321 B438 B444 B652 B443 B620 B477 B467 B623 B653 B654 B622 B690 B328 B661 B327 B662 B660 B689 B655 B332 B624 B344 B268 B739 B707 B468 B282 B277 B262 B338 B255 B337 B695 B345 B331 B280 B278 B265 B255A B256 B15A B283 B273 SS12-CA B807 B479 B15-AA B336 B70 B257 B247 B247A B284A B284 B279 B797A B794 B274 B270 B261 B805 B252 B801 B793 B797 B275 B266 B800 MW-15S B330 B248 B343 B335 B281 B808 B333 B271 B805A B248A B276 B791 B260 B464 MW-15D B796 B803 B804 B804A B820 B473 B329 B795 B632A B632 B633 B634 B680 B681 B696 B679 B697 B722 B721

Legend

PCB Concentration

- >50 mg/kg
- >10 to 50 mg/kg
- >1 to 10 mg/kg
- >0 to 1 mg/kg
- Non-Detect

- Monitoring Well (Decommissioned)
- Estimated Limit of PCB Remediation Waste
- Proposed Limits of Excavation
- Overall Extent of Excavation (As-Built)

Notes
PCB - Polychlorinated Biphenyl
ft bgs - Feet below ground surface
mg/kg - milligram per kilogram

"SSHS-" prefix removed from location identification.

PCB Remediation Waste – Total PCB concentration of fifty (50) mg/kg or greater as defined in 40 CFR §761.3 (TSCA)

Proposed Cleanup Level – Total PCB concentration of ten (10) mg/kg

The extent of PCB Remediation Waste may be revised based on future pre-delineation sampling or confirmation sampling of excavation side walls and bottom at frequencies in a ccordance with Section 5.4 (b) of DER-10

Aerial imagery source: Nearmap, captured December 9, 2018.

50 25 0 50 Feet

IRM Excavation - Main Parking Lot - 4-6 ft bgs

Former Sperry Remington - North Portion #808022
Elmira, New York

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Blue Bell, PA | June 2026

Figure 7

P:\GIS\GISprojects\MN08821- Elmira\Projects\Elmira IRM 1 CCR\IRM 1 CCR.aprx

Estimated Soil with PCBs Remaining: 1190 cubic yards.

B619 B651 B440 B650 B439 B438 B444 B652 B443 B620 B477 B743 B467 B653 B621 B738 B622 B476 B709 B700 B655 B710 B711 B332 B624 B344 B268 B739 B471 B277 B262 B338 B255 B672 B331 B283 B280 B278 B273 B265 B255A B256 B15A B15-AA B70 B336 SS12-CA B785 B807 B479 B665 B247 B284A B281 B797A B794 B274 B786 B261 B257 B252 B284 B279 B478 B797 B333 B266 B800 B793 MW-15S B330 B248 B723 B330A B276 B271 B791 B260 B464 MW-15D B470 B796 B803 B469 B629 B820 B473 B329 B632A B632 B633 B629A B795 B632B

N

Legend

PCB Concentration

- >50 mg/kg
- >10 to 50 mg/kg
- >0 to 10 mg/kg
- Non-Detect

- Monitoring Well (Decommissioned)
- Estimated Limit of PCB Remediation Waste
- Proposed Limits of Excavation
- Overall Extent of Excavation (As-Built)

Notes
PCB - Polychlorinated Biphenyl
ft bgs - Feet below ground surface
mg/kg - milligram per kilogram

"SSHS-" prefix removed from location identification.

PCB Remediation Waste – Total PCB concentration of fifty (50) mg/kg or greater as defined in 40 CFR §761.3 (TSCA)

Proposed Cleanup Level – Total PCB concentration of ten (10) mg/kg

The extent of PCB Remediation Waste may be revised based on future pre-delineation sampling or confirmation sampling of excavation side walls and bottom at frequencies in a ccordance with Section 5.4 (b) of DER-10

Aerial imagery source: Nearmap, captured December 9, 2018.

50 25 0 50 Feet

IRM Excavation - Main Parking Lot - 6-8 ft bgs

Former Sperry Remington - North Portion #808022
Elmira, New York

Geosyntec consultants

Blue Bell, PA | June 2026

Figure 8

P:\GIS\GISprojects\MN02821- Elmira\Projects\Elmira IRM 1 CCR\IRM 1 CCR.aprx

Estimated Soil with PCBs Remaining: 1310 cubic yards.

B619 B651 B440 B650 B439 B438 B652 B444 B443 B620 B673 B653 B621 B654 B622 B655 B332 B624 B344 B471 B701 B338 B337 B695 B666 B812 B331 B283A B278A B787 B807 B659 B693 B708 B336 B715 B342 B802 B257 B805 B475 B472 B70 B341 B630 B801 B330 B741 B266A B800 B335 B478 B333 B474 MW-15S B330A B691 B792 MW-15D B635 B470 B795 B803 B469 B798 B629 B473 B329 B803A B804 B634 B629A B633 B632 B632A B681

N

Legend

PCB Concentration

- >50 mg/kg
- >10 to 50 mg/kg
- >0 to 10 mg/kg
- Non-Detect

- Monitoring Well (Decommissioned)
- Estimated Limit of PCB Remediation Waste
- Proposed Limits of Excavation
- Overall Extent of Excavation (As-Built)

Notes
PCB - Polychlorinated Biphenyl
ft bgs - Feet below ground surface
mg/kg - milligram per kilogram

"SSHS-" prefix removed from location identification.

PCB Remediation Waste – Total PCB concentration of fifty (50) mg/kg or greater as defined in 40 CFR §761.3 (TSCA)

Proposed Cleanup Level – Total PCB concentration of ten (10) mg/kg

The extent of PCB Remediation Waste may be revised based on future pre-delineation sampling or confirmation sampling of excavation side walls and bottom at frequencies in a ccordance with Section 5.4 (b) of DER-10

Aerial imagery source: Nearmap, captured December 9, 2018.

50 25 0 50 Feet

IRM Excavation - Main Parking Lot - 8-10 ft bgs

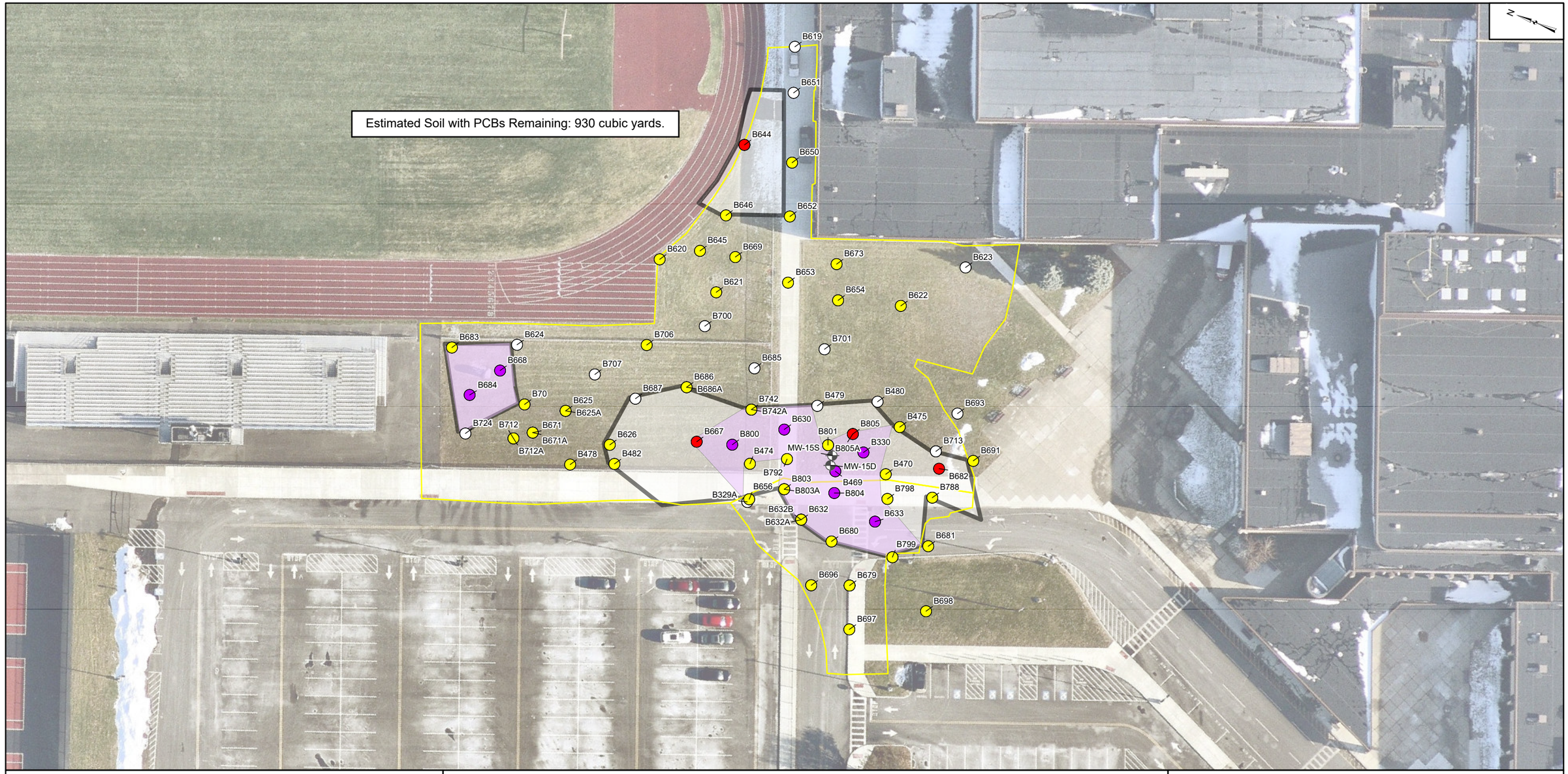
Former Sperry Remington - North Portion #808022
Elmira, New York

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Figure 9

P:\GIS\GISprojects\MN02821- Elmira\Projects\Elmira IRM 1 CCR\IRM 1 CCR.aprx



Legend

PCB Concentration

- >50 mg/kg
- >10 to 50 mg/kg
- >0 to 10 mg/kg
- Non-Detect

- Monitoring Well (Decommissioned)
- Estimated Limit of PCB Remediation Waste
- Proposed Limits of Excavation
- Overall Extent of Excavation (As-Built)

Notes

PCB - Polychlorinated Biphenyl
ft bgs - Feet below ground surface
mg/kg - milligram per kilogram

"SSHS-" prefix removed from location identification.

PCB Remediation Waste – Total PCB concentration of fifty (50) mg/kg or greater as defined in 40 CFR §761.3 (TSCA)

Proposed Cleanup Level – Total PCB concentration of ten (10) mg/kg

The extent of PCB Remediation Waste may be revised based on future pre-delineation sampling or confirmation sampling of excavation side walls and bottom at frequencies in a ccordance with Section 5.4 (b) of DER-10

Aerial imagery source: Nearmap, captured December 9, 2018.

50 25 0 50 Feet

IRM Excavation - Main Parking Lot - 10-12 ft bgs

Former Sperry Remington - North Portion #808022
Elmira, New York

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Figure **10**

P:\GIS\GISprojects\MH08321 - Elmira\Projects\Elmira RM 1 CCR\RM 1 CCR.aprx

B651
B644
B650
B646
B652
B645
B669
B621
B653
B700
B683
B624
B701
B668
B685
B684
B686
B812
B70
B625
B742
B659
B715
B802
B724
B627
B630
B631
B714
B667
B800
B801
MW-15S
B736
B626
B792
B330
B635
B737
B478
MW-15D
B470
B803
B656
B804
B469
B629
B811
B632A
B632
B633
B634
B680
B681
B799
B696
B679
B698
B697

Legend

PCB Concentration

- >50 mg/kg
- >10 to 50 mg/kg
- >0 to 10 mg/kg
- Non-Detect

- Monitoring Well (Decommissioned)
- Estimated Limit of PCB Remediation Waste
- Proposed Limits of Excavation
- Overall Extent of Excavation (As-Built)

Notes
PCB - Polychlorinated Biphenyl
ft bgs - Feet below ground surface
mg/kg - milligram per kilogram

"SSHS-" prefix removed from location identification.

PCB Remediation Waste – Total PCB concentration of fifty (50) mg/kg or greater as defined in 40 CFR §761.3 (TSCA)

Proposed Cleanup Level – Total PCB concentration of ten (10) mg/kg

The extent of PCB Remediation Waste may be revised based on future pre-delineation sampling or confirmation sampling of excavation side walls and bottom at frequencies in a ccordance with Section 5.4 (b) of DER-10

Aerial imagery source: Nearmap, captured December 9, 2018.

50 25 0 50 Feet

IRM Excavation - Main Parking Lot - 12-14 ft bgs

Former Sperry Remington - North Portion #808022
Elmira, New York

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Figure 11

P:\GIS\GISproject\MN08321 - Elmira\Projects\Elmira IRM 1 CCR\IRM 1 CCR.aprx

Estimated Soil with PCBs Remaining: 300 cubic yards.

B651
B644
B650
B646
B652
B645
B669
B621
B653
B624
B719
B730
B685
B685A
B717A
B717
B659
B671A
B671
B657
B657A
B667
B800
B630
B630A
B631
B792
MW-15S
B647
B658
B670
MW-15D
B803
B803A
B804A
B804
B716
B718A
B718
B680
B799
B681
B679
B698
B697

N

Legend

PCB Concentration

- >50 mg/kg
- >3.2 to 50 mg/kg
- >0 to 3.2 mg/kg
- Non-Detect

- Monitoring Well (Decommissioned)
- Proposed Limits of Excavation
- Overall Extent of Excavation (As-Built)

Notes
PCB - Polychlorinated Biphenyl
ft bgs - Feet below ground surface
mg/kg - milligram per kilogram

"SSHS-" prefix removed from location identification.

PCB Remediation Waste – Total PCB concentration of fifty (50) mg/kg or greater as defined in 40 CFR §761.3 (TSCA)

Proposed Cleanup Level – Total PCB concentration of ten (10) mg/kg

The extent of PCB Remediation Waste may be revised based on future pre-delineation sampling or confirmation sampling of excavation side walls and bottom at frequencies in a ccordance with Section 5.4 (b) of DER-10

Aerial imagery source: Nearmap, captured December 9, 2018.

50 25 0 50 Feet

IRM Excavation - Main Parking Lot - 14-16 ft bgs

Former Sperry Remington - North Portion #808022
Elmira, New York

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Blue Bell, PA | June 2026

Figure 12

P:\GIS\GISproject\MN08321- Elmira\Projects\Elmira IRM 1 CCR\IRM 1 CCR.aprx





Legend

PCB Concentration

- >50 mg/kg
- >3.2 to 50 mg/kg
- >0 to 3.2 mg/kg
- Non-Detect

Monitoring Well (Decommissioned)

Notes
PCB - Polychlorinated Biphenyl
ft bgs - Feet below ground surface
mg/kg - milligram per kilogram

"SSHS-" prefix removed from location identification.

Protection of Groundwater Soil Cleanup Objective of 3.2 mg/kg (6 NYCRR Part 375)

Depth of excavation will be 6-12 inches below the water table based on field observations.

Aerial imagery source: Nearmap, captured December 9, 2018.

50 25 0 50 Feet

IRM Excavation - Main Parking Lot - 16-20 ft bgs

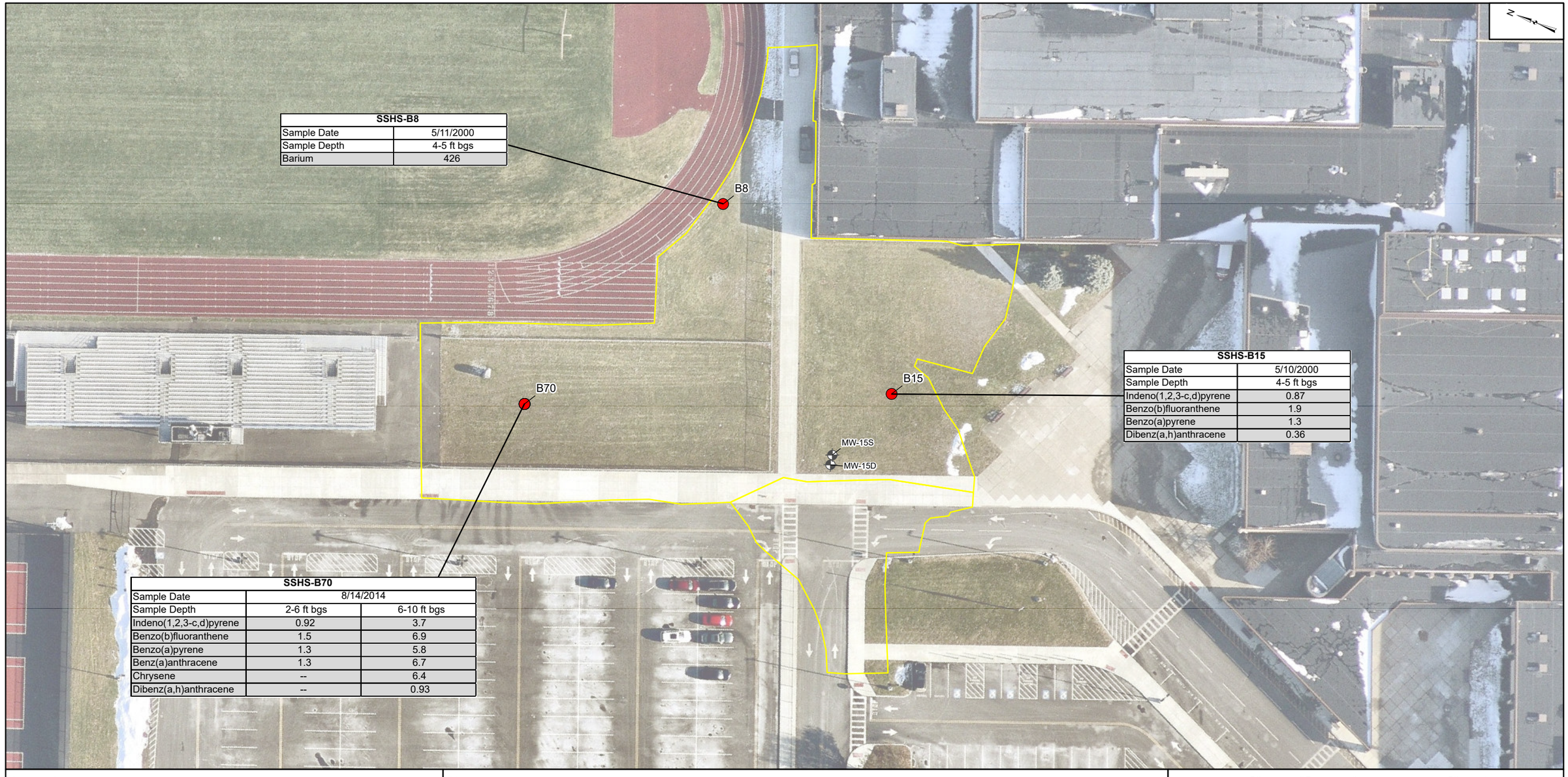
Former Sperry Remington - North Portion #808022
Elmira, New York

Geosyntec consultants

Blue Bell, PA | June 2026

Figure 13

P:\GIS\GISprojects\MH08021- Elmira\Projects\Elmira IRM 1 CCR\IRM 1 CCR.aprx



SSHS-B8	
Sample Date	5/11/2000
Sample Depth	4-5 ft bgs
Barium	426

SSHS-B15	
Sample Date	5/10/2000
Sample Depth	4-5 ft bgs
Indeno(1,2,3-c,d)pyrene	0.87
Benzo(b)fluoranthene	1.9
Benzo(a)pyrene	1.3
Dibenz(a,h)anthracene	0.36

SSHS-B70		
Sample Date	8/14/2014	
Sample Depth	2-6 ft bgs	6-10 ft bgs
Indeno(1,2,3-c,d)pyrene	0.92	3.7
Benzo(b)fluoranthene	1.5	6.9
Benzo(a)pyrene	1.3	5.8
Benz(a)anthracene	1.3	6.7
Chrysene	--	6.4
Dibenz(a,h)anthracene	--	0.93

Legend

SVOC, VOC and Metals Concentrations (mg/kg)

- Exceeds SCO
- Detected, Below SCO
- Non-Detect

- Monitoring Well (Decommissioned)
- Overall Extent of Excavation (As-Built)

Notes
SVOC: Semi-volatile Organic Compounds
VOC: Volatile Organic Compounds
ft bgs - Feet below ground surface
mg/kg - milligram per kilogram

"SSHS-" prefix removed from location identification.

Aerial imagery source: Nearmap, captured December 9, 2018.

50 25 0 50 Feet

Other COPC Exceedances

Former Sperry Remington - North Portion #808022
Elmira, New York

Geosyntec consultants

Blue Bell, PA | June 2026

Figure 14

P:\GIS\GISprojects\MW08021 - Elmira\Projects\Elmira IRM 1 CCR\IRM 1 CCR.aprx

Appendix A

Survey Map, Metes and Bounds

FORM 556X N. Y. DEED—BARGAIN AND SALE (From a Corporation)

TUTBLANK REGISTERED U. S. PAT. OFFICE TUTTLE LAW PRINT, PUBLISHERS BURLINGTON, VT. 05401

This Indenture,

LIBER 653 PAGE 925

33.00

Made the 15th *day of* June,

Nineteen Hundred and Seventy-seven.

Between MARINE MIDLAND BANK, formerly known as Marine Midland Bank-Southern

a corporation organized under the laws of the State of New York, with offices at 150 Lake Street, Elmira, New York,

party of the first part, and

CITY SCHOOL DISTRICT OF THE CITY OF ELMIRA, NEW YORK, a school district organized under the Education Law of the State of New York, with its principal office at 951 Hoffman Street, Elmira, New York,

party of the second part,

Witnesseth *that the party of the first part, in consideration of*---ONE--------

and NO/100----------*Dollar* ($1.00----) *lawful money of the United States,* and other good and valuable consideration *paid by the party of the second part, does hereby grant and release unto the party of the second part,* its successors *and assigns forever, all* THAT TRACT OR PARCEL OF LAND situate in the City of Elmira, County of Chemung and State of New York, bounded and described as follows:

Beginning at a point in the northerly line of lands formerly belonging to Stephen Keating, which point is one hundred fifty (150) feet easterly from a point marking the northwest corner of said Keating lands located on the easterly line of South Main Street distant northerly four hundred ninety-one and ninety-four hundredths (491.94) feet from the northeasterly corner of South Main Street and O'Gorman Street; from said point of beginning running thence southerly parallel with the easterly line of South Main Street three hundred fifty-one and ninety-four hundredths (351.94) feet to a point; thence easterly parallel with O'Gorman Street one hundred and eighty (180) feet to a point; thence southerly parallel with South Main Street one hundred eighty (180) feet to a point in the southerly line of O'Gorman Street; thence easterly along the southerly line of O'Gorman Street three hundred thirty-three and forty-eight hundredths (333.48) feet to the westerly line of the right-of-way of the Erie Lackawanna Railway Company; thence northerly along said right-of-way five hundred thirty-one and eighty-one hundredths (531.81) feet more or less to a point in the westerly line of the right-of-way of said railroad company, said point marking the northeast corner of said Keating lands; thence westerly along the northerly line of said Keating lands five hundred nine and thirty-five hundredths (509.35) feet to the point of beginning.

Being the same premises conveyed to the party of the first part by Referee's Deed from Vernando J. Bonsignore, Referee, dated October 11, 1974, and recorded October 18, 1974 in Chemung County Clerk's Office in Liber 635 of Deeds at page 47.

The premises herein conveyed does not represent a substantial portion of the assets of the grantor.

The grantor covenants that it has not done or suffered anything which might adversely affect the marketability of the title of the premises.

The grantor also covenants that the grantee shall quietly enjoy the said premises and that the grantor will forever warrant the title to the premises.

Liber 893 PAGE 936

Together *with the appurtenances and all the estate and rights of the party of the first part in and to said premises,*

To have and to hold *the premises herein granted unto the party of the second part,* its successors *and assigns forever.*

That, in compliance with Section 13 of the Lien Law, the grantor will receive the consideration for this conveyance and will hold the right to receive such consideration as a trust fund to be applied first for the purpose of paying the cost of the improvement and will apply the same first to the payment of the cost of the improvement before using any part of the total of the same for any other purpose.

In Presence of

In Witness Whereof, *the party of the first part has caused its corporate seal to be hereunto affixed, and these presents to be signed by its duly authorized officer this* 15th *day of* June, *Nineteen Hundred and* Seventy-seven.

MARINE MIDLAND BANK

By Paul G. Baxter
Paul G. Baxter, VICE PRESIDENT

ASSESSORS OFFICE
ELMIRA, N. Y.

JUN 22 1977

ASSESSOR

RECEIVED
$ 35.00
REAL ESTATE
JUN 15 1977
TRANSFER TAX
CHEMUNG
COUNTY

#2788

State of New York } ss.
County of CHEMUNG } ss.

On this 15th *day of* June, *Nineteen Hundred and* Seventy-seven, *before me personally came* PAUL G. BAXTER

to me personally known, who, being by me duly sworn, did depose and say that he resides in Town of Southport *that he is the* Vice President *of* Marine Midland Bank *the corporation described in, and which executed, the within Instrument; that he knows the seal of said corporation; that the seal affixed to said Instrument is such corporate seal; that it was so affixed by order of the Board of Directors of said corporation; and that he signed* his *name thereto by like order.*

Richard Denton
Notary Public

RICHARD DENTON 08-5989800
Notary Public, Chemung County
State of New York
Commission Expires 30th March 1978

FILED-RECORDED
JUN 15 4 29 PM 1977
CHEMUNG COUNTY
CLERK'S OFFICE
HARRY C. SHEPARD
COUNTY CLERK

LIBER 652 PAGE 327

THIS INDENTURE made this 21 day of April, 1977, between WESTINGHOUSE ELECTRIC CORPORATION, a Pennsylvania corporation having its principal office and place of business at Westinghouse Building, Gateway Center, Pittsburgh, Pennsylvania, party of the first part and THE CITY SCHOOL DISTRICT OF THE CITY OF ELMIRA, NEW YORK, a municipal corporation of the State of New York having its principal office and place of business at 951 Hoffman Street, Elmira, New York, party of the second part,

WITNESSETH that the party of the first part in consideration of one dollar ($1.00) lawful money of the United States and other good and valuable consideration paid by the party of the second part, does hereby grant and release unto the party of the second part, its successors and assigns forever:

ALL THAT TRACT OR PARCEL OF LAND situate in the City of Elmira and Town of Southport, Chemung County, New York, bounded and described as follows:

BEGINNING at an iron pin in the easterly line of South Main Street in the City of Elmira located 60.30 feet southerly along said line from the intersection of the easterly line of South Main Street with the southerly line of O'Gorman Street and running thence north 74° 02' 00" east a distance of 150.00 feet to an iron pin; thence south 15° 03' 00" east a distance of 60.0 feet to an iron pin; thence north 74° 05' 00" east a distance of 112.00 feet to an iron pin; thence north 15° 03' 00" west a distance of 120.40 feet to an iron pin in the south line of O'Gorman Street; thence north 74° 02' 00" east a distance of 68.00 feet along the southerly line of O'Gorman Street to an iron pin; continuing thence north 74° 02' 00" east along a continuation easterly of the southerly line of O'Gorman Street a distance of 333.48 feet to an iron pin in the westerly line of the right-of-way of the former Erie Railroad Company; thence south 15° 46' 00" east along the westerly line of the right-of-way of the Erie Railroad Company a distance of 984.24 feet to an iron pin; thence continuing along the westerly right-of-way of the Erie Railroad Company south 26° 25' 47" east a distance of 635.25 feet to an iron pin; thence continuing along the westerly right-of-way of the Erie Railroad Company south 20° 06' 00" east a distance of 154.93 feet to an iron pin; thence south 73° 37' 30" west a distance of 350.0 feet to an iron pin; thence south 18° 31' 26" west a distance of 73.15 feet to an iron pin; thence south 74° 45' 53" west a distance of 175.46 feet to an iron

RECEIVED $ Exempt REAL ESTATE APR 21 1977 TRANSFER TAX CHEMUNG COUNTY

2165

FILED FOR RECORD CHEMUNG COUNTY CLERK'S OFFICE Apr 21 4 53 PM 1977

APR 21 1977 ASSESSOR

ASSESSOR'S OFFICE ELMIRA, N.Y.

pin; thence north 60° 09' 32" west a distance of 118.91 feet to an iron pin; thence south 74° 50' 28" west a distance of 164.62 feet to an iron pin in the easterly line of South Main Street; thence north 15° 03' 00" west a distance of 1676.34 feet along the west line of South Main Street to the place of beginning.

Excepting and reserving an easement ten (10) feet in width running along the westerly line of the above described premises from the southwesterly corner thereof northerly a distance of 548.85 feet to the division line between the City of Elmira and the Town of Southport for the purpose of maintaining, repairing and replacing a sewer main.

Subject to a gas pipeline easement granted by Sperry Rand Corporation to the New York State Electric and Gas Corporation dated April 10, 1969 and recorded in Chemung County Clerk's Office in Liber 601 of Deeds at Page 663 as amended by agreement dated April 12, 1977, to be recorded in Chemung County Clerk's Office and subject to the right reserved to the City of Elmira to maintain a sewer line in what was formerly Scott Street reserved in a quitclaim deed from the City of Elmira to Morrow Manufacturing Company dated October 31, 1916 and recorded in Chemung County Clerk's Office in Liber 182 of Deeds at Page 127.

Being the same premises conveyed by the Chemung County Industrial Development Agency to Westinghouse Electric Corporation by Deed dated April 21, 1977, to be recorded in the Chemung County Clerk's Office.

Together with the appurtenances and all the estate and rights of the party of the first part in and to said premises,

To have and to hold the premises herein granted unto the party of the second part, its successors and assigns forever,

The party of the first part does hereby covenant that it has not done nor suffered anything to be done which will in any way encumber the title to the above described premises.

Pursuant to the Lien Law of the State of New York the party of the first part does hereby covenant and agree that it will hold the consideration received for this conveyance and the right to receive such consideration as a trust fund to be used first for the payment of the cost of any improvements which may have been made on the above described premises within four months preceding the date of this conveyance.

LIBER 652 PAGE 329

IN WITNESS WHEREOF the party of the first part has caused this deed to be executed by its duly authorized officers and its corporate seal to be affixed as of the day and year first above written.

WESTINGHOUSE ELECTRIC CORPORATION,

By _____

Its Vice President

Attest: _____

Its Assistant Secretary

State of Pennsylvania,)
: ss.
County of Allegheny .)

On the 19th day of April, 1977, before me, personally came S. W. Herwald, to me known, who being by me duly sworn, did depose and say that he resides at _____, in the City of Pittsburgh, Allegheny County, Pennsylvania; that he is the Vice President of Westinghouse Electric Corporation the corporation described in and which executed the foregoing deed; that he knows the seal of said corporation; that the seal affixed to said deed is such corporate seal; that it was so affixed by order of the Board of Directors of said corporation and that he signed his name thereto by like order.

_____
Notary Public

JEANNE F. KANDSBERGER, Notary Public
Pittsburgh, Allegheny County, Pa
My Commission Expires
July 27, 1979

Allegheny County, Commonwealth of Pennsylvania, } ss:

I, John P. Joyce, Prothonotary of the Court of Common Pleas in and for the County of Allegheny, in the Commonwealth of Pennsylvania, the same being a Court of Law and Record, and having a seal, do hereby certify that _____ Esquire, before whom the foregoing ACKNOWLEDGMENT or AFFIDAVIT was taken, and who has thereunto, in his or her own proper handwriting, subscribed his or her name to the certificate of the proof and acknowledgment of the annexed instrument, was at that time and is now a NOTARY PUBLIC in and for the Commonwealth of Pennsylvania, resident of said County aforesaid, duly commissioned and sworn and authorized by law to take and certify affidavits and the acknowledgments and proof of deeds to land, etc., to be recorded, to all whose acts as such due faith and credits are, and of right ought to be, given throughout the United States and elsewhere; and further, that said instrument is executed in accordance with the laws of this Commonwealth, and that I am acquainted with his or her signature and seal, and believe the same to be genuine.

In Testimony Whereof, I have hereunto set my hand and affixed the seal of the said Court at Pittsburgh, in said County this 19 day of April in the year of our Lord one thousand nine hundred and seventy-seven. John P. Joyce Prothonotary.

20928 By _____ Deputy

Appendix B

Agency Approvals

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation, Region 8
6274 East Avon-Lima Road, Avon, NY 14414-9516
P: (585) 226-5353 I F: (585) 226-8139
www.dec.ny.gov

Via E-mail

June 16, 2017

Mr. Kevin Krueger, PE
Unisys Corporation
Corporate Environmental Affairs
3199 Pilot Knob Road
Eagan, NY 55121

Dear Mr. Krueger:

Re: Interim Remedial Measures Work Plan
Former Sperry Remington Site #c808022
Elmira, Chemung County

The New York State Department of Environmental Conservation (NYSDEC) and the New York State Department of Health have completed the review of "Interim Remedial Measures Work Plan" for the Former Sperry Remington – North Portion Site #c808022, last revised June 2, 2017 and request the following modifications:

1. IRM Work Plan – Section 4 – Health and Safety - please add: "A contingency for chemical specific PCB monitoring should developed in the event the State determines that it is necessary."

2. IRM Work Plan – Figures modifications – 6-9-17 DEC Markup
    a. Boring locations labeled consistent with the data tables
    b. Modified excavation limits
    c. Additional confirmation sampling

3. IRM Work Plan - Please add all supporting documentation/approvals requested in Bernette Schilling's 5-26-17 email as an appendix.

4. Appendix C - Construction Drawings – 6-12-17 DEC Markup
    a. Note – Utilities "Removed" not "Demolished" and segregated for off-site disposal characterization.
    b. Modified excavation limits
    c. Additional confirmatory samples
        i. Where identifiable impacted soil continues beyond excavation / delineation limits
        ii. Boring logs demonstrate insufficient interval recovery
            1. Submit remaining boring logs

d. Note - All trucks hauling impacted soils on the public roadway will have a valid NYS Part 364 Waste Transporter Permit.
e. Truck wash traffic flow for tennis court area
f. Identify water source, storage and management for truck wash
g. Note – Time restrictions and flag person requirements for truck traffic related to tennis court area (not satisfied in 6-14-17 revision)
h. Note – record keeping requirements for trucks leaving excavation and stockpile areas (not satisfied in 6-14-17 revision)
i. A truck wash will be require for the stockpile area.
j. Note – Drop inlet protection and stormwater management by-pass plan
k. Note – special segregation of 0-2' soils for reuse that overlie PCB soil > 50 ppm (not satisfied in 6-14-17 revision)
l. Note – excavation to 18' bgs if water table is not restrictive
m. Demarcation layer below 2' soil cover system
n. Detailed Stockpile Area Plan including (not satisfied in 6-14-17 revision)
    i. Truck wash
    ii. Ground stabilized traffic patterns
    iii. Stabilized access road to east gate
    iv. Stockpile organization plan
    v. Loading zones
    vi. Stormwater management

5. Appendix D – Contract Specifications - Section 02100 – 3.04A – Table 02210-1 referenced in this section does not provide a frequency of sampling, identifies waste disposal characterization sampling methods and indicates individual stockpile volume of 200 cubic yards. These specifications will not generate data necessary to evaluate soils for reuse on-site. Soils anticipated for reuse will be segregated in 100 cubic yard stockpiles, testing requirements for reuse will be in accordance with table 02055-2, validated data will be compared to DER-10 Appendix 5 for Restricted Residential Use and a Request to Import or Reuse Soil Form will be submitted to the NYSDEC for approval at least 7 days in advance of intended reuse. Under no circumstance will soil be reused without NYSDEC approval.

6. Appendix D – Contract Specifications - Provide certification that all required Contractor submittals have been received, reviewed and are in strict compliance with IRM Work Plan and these requested modifications. Any deviations will require review and approval from the NYSDEC before proceeding.

7. Appendix E - Soil/Dust Control and Monitoring Plan - Please add the NYSDOH CAMP as an appendix.

8. Appendix F – Health and Safety Plan - Please identify on-site personnel designated "competent person(s)" for 29 CFR 1926 Subpart P - Excavations.

Provided that the above changes are accepted, Notice to Proceed with field activities is granted. Please revise the work plan, addressing all comments, modifications and additions and resubmit within 5 days for official Department approval.

Please contact me at (585) 226-5480 if you have any questions regarding this letter.

Sincerely,

Timothy Schneider, P.E.
Professional Engineer 1

P. Brookner
A. Krasnopoler
B. Schilling
M. Cruden
B. Conlon
D. Hettrick
J. Deming

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation, Region 8
6274 East Avon-Lima Road, Avon, NY 14414-9516
P: (585) 226-5353 I F: (585) 226-8139
www.dec.ny.gov

Via E-mail

July 3, 2017

Mr. Kevin Krueger, PE
Unisys Corporation
Corporate Environmental Affairs
3199 Pilot Knob Road
Eagan, NY 55121

Dear Mr. Krueger:

Re: Interim Remedial Measures Work Plan
Former Sperry Remington Site #c808022
Elmira, Chemung County

The New York State Department of Environmental Conservation (NYSDEC) has completed the review of Response to 28 June 2017 Letter and Revised Final Interim Remedial Measures Work Plan for the Former Sperry Remington – North Portion Site #c808022 dated 30 June 2017. The aforementioned work plan is approved contingent upon the following conditions and drawing revisions:

1. Excavation / PCB delineation limits shown on the IRM figures and construction drawings for the southern excavation area may be revised due to low pre-delineation sample recovery or may require confirmatory sampling in accordance with the work plan. Final excavation / PCB delineation limits will be approved by NYSDEC prior to excavation.
2. Modified Soil Management Logs will be utilized by the Engineer / Geosyntec in accordance with Contract Specification Section 02057-1.05 – Quality Assurance.
3. Construction Drawings Sheet 9 of 14 – The Equipment Wash Pad detail should be appropriately labeled 6/9 not 6/6.
4. Construction Drawings Sheet 9 of 14 – The Temporary Access Road detail should be appropriately labeled 3/9 not 3/6.
5. Construction Drawings Sheet 11 of 14 – The Limits of Disturbance detail should be appropriately labeled 1/11 not 1/3.
6. Construction Drawings Sheet 13 of 14 – Note #1 – remove – "if necessary" regarding the dewatering sump pit.
7. Construction Drawings Sheet 13 of 14 – The Silt Fence detail should be appropriately labeled 3/13 not 3/11.
8. Construction Drawings Sheet 13 of 14 – The Stabilized Construction Access detail should be appropriately labeled 1/13 not 1/6.
9. Construction Drawings Sheet 13 of 14 – The Compost Filter Sock detail should be appropriately labeled 4/13 not 4/-.

10. Construction Drawings Sheet 14 of 14 – Note #1 – remove – “if necessary” regarding the dewatering sump pit.
11. Construction Drawings Sheet 14 of 14 – The Soil Stockpile (side view) detail should be appropriately labeled 2/13 not 1/-.

Provided that the above conditions are accepted, and IRM Work Plan revisions are made within 5 days, Notice to Proceed with field activities is granted.

As a BCP participant, you are required to notify this office within 20 days after receipt of this letter and identify whether you will modify the document and re-submit a revised document within 30 days. It may be to your benefit to schedule a meeting with the Department to discuss the course of action being considered prior to the end of this 20 day period. The Department seeks to resolve outstanding differences in a mutually agreeable manner which addresses the requirements of the Brownfield Cleanup Agreement and associated remedial work plan requirements.

Please contact me at (585) 226-5480 if you have any questions regarding this letter.

Sincerely,

Timothy Schneider, P.E.
Professional Engineer 1

P. Brookner
A. Krasnopoler
B. Schilling
M. Cruden
B. Conlon
D. Hettrick
J. Deming

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation, Region 8
6274 East Avon-Lima Road, Avon, NY 14414-9516
P: (585) 226-5353 I F: (585) 226-8139
www.dec.ny.gov

Via E-mail

August 10, 2017

Mr. Kevin Krueger, PE
Unisys Corporation
Corporate Environmental Affairs
3199 Pilot Knob Road
Eagan, NY 55121

Dear Mr. Krueger:

Re: Interim Remedial Measures Work Plan
Former Sperry Remington Site #c808022
Elmira, Chemung County

The New York State Department of Environmental Conservation (NYSDEC) and the New York State Department of Health have completed the review of "Interim Remedial Measures Work Plan" for the Former Sperry Remington – North Portion Site #c808022, last revised July 11, 2017 and approve the work plan contingent upon the following:

1. Low recovery pre-excavation delineation samples will be recollected in-situ or confirmatory excavation samples will be required.

This letter shall be attached to the revised IRM Work Plan and a hard copy is required to be kept in the document repository and one sent to NYSDEC.

As a reminder, all final documents and reports are to be in electronic format on compact computer discs (CDs). The disk should contain an Adobe® Acrobat® Portable Document Format (PDF) file and must be searchable. In addition, all data submitted to the DER must be in the DEC-approved Electronic Data Deliverable (EDD). Moreover, new data must be submitted on a continuous basis immediately after data validation occurs but in no event more than 90 days after the data has been submitted to the remedial party or its consultant(s). In other words, data is not to be held and submitted with the related reports.

Please contact me at (585) 226-5480 if you have any questions regarding this letter.

Sincerely,

Timothy Schneider, P.E.
Professional Engineer 1

P. Brookner
A. Krasnopoler
B. Schilling
M. Cruden
B. Conlon
D. Hettrick
J. Deming

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation, Region 8
6274 East Avon-Lima Road, Avon, NY 14414-9516
P: (585) 226-5353 I F: (585) 226-8139
www.dec.ny.gov

Via E-mail

August 10, 2017

Mr. Kevin Krueger, PE
Unisys Corporation
Corporate Environmental Affairs
3199 Pilot Knob Road
Eagan, NY 55121

Dear Mr. Krueger:

Re: Interim Remedial Measures Work Plan - Amendment
Former Sperry Remington Site #c808022
Elmira, Chemung County

The New York State Department of Environmental Conservation (NYSDEC) has completed the review of "Interim Remedial Measures Work Plan – Amendment #2" for the Former Sperry Remington – North Portion Site #c808022, last revised August 9, 2017 and approve the work plan amendment contingent upon the following:

1. The Amendment is appropriately renamed Amendment #1.
2. Approval of work plan modifications to Material Storage Area (MSA) management techniques and time duration are contingent upon Southern Tier Commerce Center approval.
3. Written NYSDEC approval to consolidate windrows will be required.
4. Community air monitoring will continue during amendment activities.

This letter shall be attached to the revised IRM Work Plan Amendment #1 and a hard copy is required to be kept in the document repository and one sent to NYSDEC.

Additional NYS Department of Health comments, if any, will be transmitted directly.

As a reminder, all final documents and reports are to be in electronic format on compact computer discs (CDs). The disk should contain an Adobe® Acrobat® Portable Document Format (PDF) file and must be searchable. In addition, all data submitted to the DER must be in the DEC-approved Electronic Data Deliverable (EDD). Moreover, new data must be submitted on a continuous basis immediately after data validation occurs but in no event more than 90 days after the data has been submitted to the remedial party or its consultant(s). In other words, data is not to be held and submitted with the related reports.

Please contact me at (585) 226-5480 if you have any questions regarding this letter.

Sincerely,

Timothy Schneider, P.E.
Professional Engineer 1

P. Brookner
A. Krasnopoler
B. Schilling
M. Cruden
B. Conlon
D. Hettrick
J. Deming
A. Meinstein

Appendix C

Copies of the Daily Field Reports

Geosyntec consultants

100 Washington Avenue South, Suite 1590
Minneapolis, Minnesota 55401
612.253.8205

DAILY FIELD REPORT

PROJECT AND SITE INFORMATION

PROJECT: Unisys/Elmira	DATE: 6/19/2017	
DESCRIPTION: Soil Sampling, Field CQA	PROJECT NO.: MN0832D	PHASE NO.: 2
CLIENT: Unisys	LOCATION: Elmira, NY	
CONTRACTOR(S): Recon		
WEATHER: 60-65 F; Light to Heavy Rain		

ON-SITE PERSONNEL

NAME	COMPANY	POSITION
Aron Krasnopoler	Geosyntec Consultants	Project Engineer
Ashwin Ranna	Geosyntec Consultants	Staff engineer
Michael Furlong	Recon	Project Superintendent
Multiple Recon Employees	Recon	

VISITOR'S NAME	COMPANY
Roche	Town Of Southport Code Enforcement
Mike Dunn	EHS
Dominic Insogna	EHS

EQUIPMENT LIST

DESCRIPTION (QTY)	MODEL NO.	COMMENTS
GPS	GeoXH	
PID	MiniRAE3000	
Hand auger		

MATERIALS DELIVERED

DESCRIPTION	QTY	CONDITIONS / COMMENTS

DESCRIPTION OF WORK

Field Activities

1. Geosyntec arrived on site at 0715. Met with John Geary and Michael Furlong of Recon.
2. Rain was predicted for the entirety of the day. MF of Recon explained that he was still waiting on results for structural fill and had cancelled trucks for the day as the stockpile area was currently under construction. He provided access to the trailer and indicated the area to be used by Geosyntec. He explained that power was provided to the trailer by generator and was only available during work hours.
3. Geosyntec held a Tailgate safety meeting at 0730 and prepared to collect confirmatory samples at additional boring locations. During mobilization MF explained that the existing SF and Chain link fence would be moved to accommodate complete extent of excavation.
4. Heavy rain began at 0800. MF said that Recon would begin by preparing soil for loading within the limits of excavation. Dust monitors were not deployed on account of rain.
5. Dominic Insogna from EHS was on site and talked to Recon at 0830. He explained that Mike Dunn (EHS) was currently tied up and would be on site later in the day
6. Between 0830 at 1500 Geosyntec collected soil samples (0'-2' BGS) at locations SSHS-B822, SSHS-B823 and SSHS-B824.
7. 1000 MD and DI from EHS onsite. AK and EHS carried out a site walk to identify ventilators near the southern Excavation. MD explained that it might be possible to turn off some of the ventilators to the gym during the day.
8. 1200 Rain continues. AR carries out daily ES&C inspection.
9. 1225 Lightning observed on site. Work stopped.
10. Between 1230 and 1330 Geosyntec left site for lunch.
11. 1345 Excavation resumes. Light rain in progress. Geosyntec talked to MF about inlet protection for Dry wells within the LOD. Construction of entry, exit and washouts for Stockpile area continues.
12. 1450 Collected equipment blank from auger for samples and began packing samples.
13. 1530 Representative (Mr. Roche?) from Town of Southport code enforcement on site in regards to complaint about stockpile proximity to Oakdale Street. Talked to MF of Recon. Basis conversation with Geosyntec he did not have any issues with stockpile location if it was part of an approved plan.
14. 1630 Completed packing samples. Emptied extra sample material and decon water into barrels on site. Took photos of Oakland Street and stockpile area.
15. Between 1630 and 1700 Contractor began demobing and covering stockpile with plastic tarp within the LOD.
16. 1715 Geosyntec demobed , signed out of site and headed to FEdex to ship samples
17. 1745 Samples shipped

PROBLEMS/DELAYS ENCOUNTERED

Refusal between 16"-20" for all borings

MODIFICATIONS TO PLANNED SCOPE OF WORK

A nuclear gauge cannot be used on site due to issues with licensing and equipment availability. Drive cylinders are to be used for density testing and an oven is to be purchased to carry out moisture content calculations. Equipment will be sent to site later this week.

QA/QC Samples

QA/QC Sample	**Parent Sample**
DUP-1, MS-MSD-1	SSHS-B822-SUB-0-2
EB-1	SSHS-B824-SUB-0-2

MISCELLANEOUS ITEMS

OTHER INFORMATION

Time Work Started – Completed: 0730 – 1745 hrs	Prepared By: Ashwin Ranna

SITE PHOTOGRAPHS	
Photograph 1 Date: 6.19.2017 Direction: NA Hand augering at SSHS-B822	
Photograph 2 Date: 6/19/2017 Direction: East Excavation to 2’ within LOD	

SITE PHOTOGRAPHS	
Photograph 1 Date: 6.19.2017 Direction: NW Excavation and stockpiling inside LOD.	
Photograph 2 Date: 6/19/2017 Direction: South Covering the stockpile at end of day.	

Geosyntec consultants

100 Washington Avenue South, Suite 1590
Minneapolis, Minnesota 55401
612.253.8205

DAILY FIELD REPORT

PROJECT AND SITE INFORMATION

PROJECT: Unisys/Elmira	DATE: 6/20/2017	
DESCRIPTION: Field CQA	PROJECT NO.: MN0832D	PHASE NO.: 2
CLIENT: Unisys	LOCATION: Elmira, NY	
CONTRACTOR(S): Recon		
WEATHER: 57-78 F; Partly cloudy to light rain		

ON-SITE PERSONNEL

NAME	COMPANY	POSITION
Aron Krasnopoler	Geosyntec Consultants	Project Engineer
Ashwin Ranna	Geosyntec Consultants	Staff engineer
Michael Furlong	Recon	Project Superintendent
Multiple Recon Employees	Recon	
John Geary	Recon	Project Manager

VISITOR'S NAME	COMPANY
Tim Schneider	NYSDEC
Scott Williams	NYSDEC

EQUIPMENT LIST

DESCRIPTION (QTY)	MODEL NO.	COMMENTS
GPS	GeoXH	
PID	MiniRAE3000	
PID (Recon)	-	2 (1 roving 1 in cab of excavator)
Dust monitor (Recon)	Thermoscientific PDR 1500	4

MATERIALS DELIVERED

DESCRIPTION	QTY	CONDITIONS / COMMENTS
Trucks (Recon)	2	

DESCRIPTION OF WORK

Field Activities

1. Geosyntec arrived on site at 0700. Attended Site safety meeting with Recon
2. 0715 AR conducts E&S inspection with Recon. Identified locations requiring Inlet protection, issues with Silt fence depths, overlap at some locations. Recon begins carrying out repairs.
3. Recon installs dust monitors (2 each) at upwind and downwind locations in excavation area and stockpile area.) . Stockpiling within LOD for loading and work on construction entry, exit and truck wash for stockpile area underway.
4. 0745 Geotextile material placed down near excavation area to allow trucks to enter without contact with soils. 2 trucks on site to load and unload material.
5. 0815 Inspected stockpile area and silt socks chainlink fence and poly. Recon laid down poly sheet for stockpile near North Western corner of stockpile area.
6. 0845 loading trucks begins. Excavation and stockpiling continues within LOD during truck trips.
7. 0945 AR heads over to stockpile area to observe unloading of trucks and inspect stockpile arrangement. Checked recordkeeping of trucks leaving from excavation area and arriving at stockpile area.
8. 1000 DEC on site. Observed multiple issues with regards to loading, unloading and movement of trucks; storage of material on poly in stockpile area; demarcation of 100 CY volumes of stockpiled material within stockpile area; Silt fence location around tennis courts; inlet protection within LOD; Construction entrances and exits and vehicle wash pads at both tennis court excavation area and stockpile area. DEC advised Geosyntec to rectify discrepancies on a high priority.
9. DEC advised Geosyntec and Recon that full suite testing (barring pesticide) would be required on material that would be reused as backfill. JG of Recon requested that data validation be carried out by Geosyntec. DEC reminded Geosyntec and recon that approval was required to be obtained before bringing fill material to site.
10. 1100 DEC continues inspection. Recon stopped loading soil into trucks. Excavation and stockpiling within limits of disturbance continues.
11. 1200 DEC leaves site for lunch. Returns at 1330 to meet with Geosyntec. Advises that a full list of items observed differing from submitted plans would be provided by end of day. Recommended that observed issues be rectified as per submitted drawings and proposals immediately.
12. 1345 DEC left site.
13. 1345-1430 Geosyntec met with Recon JG, MF and discussed path forward. Recon indicated willingness to resolve discrepancies observed as per final approved plans.
14. 1430 -1600 Covered stockpiles in stockpile area with plastic. Geotextile placed on ground as required for next stage of stockpiles.
15. 1530 AK left site. Recon collected and downloaded dust monitor data. AR reviewed data downloaded.
16. 1600 -1730 AR talked to Recon and reviewed plans. Recon closed site and shut down for the day at 1700. Recon indicated that structural fill analysis had just been received and would be forwarded to Geosyntec for approval.

Delay in receiving results on structural fill analysis.

MODIFICATIONS TO PLANNED SCOPE OF WORK

Additional air monitors to arrive on site Thursday
s

QA/QC Samples

QA/QC Sample	**Parent Sample**

MISCELLANEOUS ITEMS

OTHER INFORMATION

Time Work Started – Completed: 0730 – 1730 hrs	Prepared By: Ashwin Ranna

SITE PHOTOGRAPHS

Photograph 1 Date: 6/20/2017 Direction: East Loading trucks within LOD. Plastic tarp on side of truck to prevent side walls from getting contaminated.	
Photograph 2 Date: 6/20/2017 Direction: West Placing tarp on top of stockpile within stockpile area. ~ 150-200 CY stored in stockpile area.	

SITE PHOTOGRAPHS

Photograph 3 Date: 6/20/2017 Direction: North East Spraying down stockpile material within LOD to improve dust suppression.	
Photograph 4 Date: 6/20/2017 Direction: South Excavated area within tennis court, (~20-25% of North section). Plastic tarp being placed on stockpile in North area	

Geosyntec consultants

100 Washington Avenue South, Suite 1590
Minneapolis, Minnesota 55401
612.253.8205

DAILY FIELD REPORT

PROJECT AND SITE INFORMATION

PROJECT: Unisys/Elmira	DATE: 6/26/2017	
DESCRIPTION: Field CQA	PROJECT NO.: MN0832B	PHASE NO.:25
CLIENT: Unisys	LOCATION: Elmira, NY	
CONTRACTOR(S): Recon		
WEATHER: 52-75 F; Cloudy		

ON-SITE PERSONNEL

NAME	COMPANY	POSITION
Ashwin Ranna	Geosyntec Consultants	Staff engineer
Michael Furlong	Recon	Project Superintendent
Kyle Snyder	Recon	Project Engineer
Rodney Cockerel	Recon	Site Safety Officer
Multiple Recon Employees	Recon	

VISITOR'S NAME	COMPANY
Scott Williams	NYSDEC

EQUIPMENT LIST

DESCRIPTION (QTY)	MODEL NO.	COMMENTS
PID	MiniRAE3000	1
PID (Recon)	MultiRAE	2
Dust monitor (Recon)	Thermoscientific PDR 1500	4

MATERIALS DELIVERED

DESCRIPTION	QTY	CONDITIONS / COMMENTS
Sandbags	~100	

DESCRIPTION OF WORK

Field Activities

1. Geosyntec arrived on site at 0650. AR attended the site safety meeting with Recon. Reviewed Poison Ivy Poison Oak and Poison Sumac identification. No earthwork or moving activities were to be carried out today and Dust monitors were not deployed.
2. Recon conducted a site walk along the southern extent and identified sections of fence to be taken down and extents of excavation.
3. MW-15S MW-15D, wells to be abandoned were identified and mulch on top of wells was removed.
4. Edger (Capital Projects was on site and began installing a perimeter fence.
5. 0900-1230 Recon began taking down the fence along the football field in preparation for installing Chain link fence.
6. 1130 Scott Williams from DEC on site. Indicates that the privacy cover on the CLF surrounding the stockpile was loose and that the edges of the tarp on the stockpiles had blown over. Advised Recon to rectify immediately.
7. Between 1230 and 1330 Summit (Recon subcontractor) abandoned MW-15s, between 1330 and 1445 MW-15D was abandoned in place using a bentonite cement slurry mixture.
8. Between 1200 and 1230 Recon broke for lunch.
9. At 1500 AR drove over to stockpile area to record repairs. STCC appears to be carrying out mowing activities in area adjacent to stockpile.
10. Between 1230 -1700 Recon installed a chain link fence along LOD of southern excavation.
11. Additional sand bags were brought to site to install perimeter fence
12. 1700 AR discussed tomorrow's plans with Mike Furlong.
13. AR left site at 1715 to return equipment via Fedex.

PROBLEMS ENCOUNTERED/ DELAYS

Require approval from DEC on structural fill material. Analysis submitted for approval.

MODIFICATIONS TO PLANNED SCOPE OF WORK

QA/QC Samples

QA/QC Sample	**Parent Sample**

MISCELLANEOUS ITEMS

OTHER INFORMATION

Time Work Started – Completed: 0700 – 1715 hrs	Prepared By: Ashwin Ranna

SITE PHOTOGRAPHS	
Photograph 1 Date: 6/26/2017 Direction: North Abandoning wells	
Photograph 2 Date: 6/26/2017 Direction: East Installing chain link LOD fence	

SITE PHOTOGRAPHS	
Photograph 3 Date: 6/26/2017 Direction: East Tarps on stockpile at End of day	
Photograph 4 Date: 6/26/2017 Direction: East Repairs to stockpile fence at end of day.	

Geosyntec consultants

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Minneapolis, Minnesota 55401
612.253.8205

DAILY FIELD REPORT

PROJECT AND SITE INFORMATION

PROJECT: Unisys/Elmira	DATE: 6/27/2017	
DESCRIPTION: Field CQA	PROJECT NO.: MN0832B	PHASE NO.:25
CLIENT: Unisys	LOCATION: Elmira, NY	
CONTRACTOR(S): Recon		
WEATHER: 49-69 F; Partly Cloudy Few sudden showers		

ON-SITE PERSONNEL

NAME	COMPANY	POSITION
Ashwin Ranna	Geosyntec Consultants	Staff engineer
Michael Furlong	Recon	Project Superintendent
Kyle Snyder	Recon	Project Engineer
Rodney Cockerel	Recon	Site Safety Officer
John Geary	Recon	Senior Project Manager
Multiple Recon Employees	Recon	

VISITOR'S NAME	COMPANY
Scott Williams	NYSDEC
Matthew Schallinger	Geosyntec

EQUIPMENT LIST

DESCRIPTION (QTY)	MODEL NO.	COMMENTS
PID	MiniRAE3000	1
PID (Recon)	MultiRAE	2
Dust monitor (Recon)	Thermoscientific PDR 1500	10
Nuclear Gauge	Troxler	1

MATERIALS DELIVERED

DESCRIPTION	QTY	CONDITIONS / COMMENTS

DESCRIPTION OF WORK

Field Activities

1. Geosyntec arrived on site at 0650 and inspected tarp and fence at stockpile area. AR attended the site safety meeting with Recon. Reviewed Situational awareness and slips trips and falls. Dust monitors were not installed on account of predicted thunderstorms through the day and no earthwork activity on site.
2. Between 0730 and 1200 Recon installed perimeter fence and Silt fence along the south section. Work resumed on the fence between after lunch between1230 until 1530.
3. JG of Recon indicated that the next critical steps for the completion of the project on schedule was approval from DEC to import structural fill, and approvals for disposal of hazardous and non-hazardous material.
4. Between 1245 and 1445 AR assisted KS of Recon in collecting samples from the quarry stockpile for fill material approval.
5. Matthew Schallinger arrived at site at 1510. Handed over Nuclear density gauge and SPT equipment. Recon began tree removal in mulch area south of gymnasium.
6. AR and MS installed warning signs on conex box and reviewed operating procedure for gauge between 1510 and 1545.
7. 1530 Scott Williams arrived on site. He said he would be back on site Thursday.
8. 1545 MS left site.
9. 1600 SW left site. AR headed back to Recon trailer to discuss plan for next day with MF. AR also reviewed Recon COCs for sample analysis.
10. 1630 AR left site.

PROBLEMS ENCOUNTERED/ DELAYS

Require approval from DEC for structural fill.

MODIFICATIONS TO PLANNED SCOPE OF WORK

QA/QC Samples

QA/QC Sample	**Parent Sample**

MISCELLANEOUS ITEMS

OTHER INFORMATION

Time Work Started – Completed: 0700 – 1630 hrs	Prepared By: Ashwin Ranna

SITE PHOTOGRAPHS	
Photograph 1 Date: 6/27/2017 Direction: East Perimeter fence install on site	
Photograph 2 Date: 6/27/2017 Direction: -- Quarry stockpile sampling	

Geosyntec consultants

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DAILY FIELD REPORT

PROJECT AND SITE INFORMATION

PROJECT: Unisys/Elmira	DATE: 6/28/2017	
DESCRIPTION: Field CQA	PROJECT NO.: MN0832B	PHASE NO.:25
CLIENT: Unisys	LOCATION: Elmira, NY	
CONTRACTOR(S): Recon		
WEATHER: 57-79 F; Partly Cloudy		

ON-SITE PERSONNEL

NAME	COMPANY	POSITION
Ashwin Ranna	Geosyntec Consultants	Staff engineer
Michael Furlong	Recon	Project Superintendent
Kyle Snyder	Recon	Project Engineer
Rodney Cockerel	Recon	Site Safety Officer
John Geary	Recon	Senior Project Manager
Multiple Recon Employees	Recon	

VISITOR'S NAME	COMPANY
Scott Williams	NYSDEC
Ally Debicki	WENY news

EQUIPMENT LIST

DESCRIPTION (QTY)	MODEL NO.	COMMENTS
PID	MiniRAE3000	1
PID (Recon)	MultiRAE	2
Dust monitor (Recon)	Thermoscientific PDR 1500	10
Nuclear Gauge	Troxler	1

MATERIALS DELIVERED

DESCRIPTION	QTY	CONDITIONS / COMMENTS

DESCRIPTION OF WORK

Field Activities

1. Geosyntec arrived on site at 0650 and inspected tarp and fence at stockpile area. AR attended the site safety meeting with Recon. Reviewed Slips trips and falls and vehicle entry and exit and locking vehicles when not in use.
2. 5 Dust monitors were installed along the perimeter and upwind of the Northern excavation area (tennis court area). Some temporary high readings were observed at the upwind location. These values were ascribed to vehicle movement (Capital projects contractor Edger began milling asphalt and shifting milled material near the upwind monitor.). Values recorded did not reach action levels.
3. Recon requested advice on how to treat non delineated material above delineated sections. For example the 0-2 section does not extend into the parking lot but the 2-4 section does. JG of Recon said that there was a lack of space within the stockpile area to handle the additional material that would need to come out during the excavation. Recon is currently preparing an estimate of the total material to be moved based on the drawings and is preparing an excavation plan.
4. 0830-0915 all contractors and the school authorities met to discuss planned progress on the school grounds. The school requested that Recon install clear demarcation of proposed truck routes along back parking lot to reduce hazards to groundskeepers who will be working on site.
5. Between 0830 and 1510 Recon had carried out utility locates on the south mulch area.
6. Recon indicated that the property owner (STCC?) indicated displeasure that the stockpile area had been expanded to include the eastern road around the stockpile and was adamant that the western road not be included into the stockpile area. The property owner indicated that the road was necessary for access for property maintenance.
7. Edger stockpiled the milled asphalt material ~5 from the silt fence around the tennis court excavation on top of Poly.
8. At 1400 Ally Debicki of WENY news was on site. AR handed over the DEC fact sheet and directed all queries to Tim Schneider. AD took some video of Edger stockpiling material and left site.
9. Between 0800 and 1700 Recon constructed access roads and began construction of Truck wash near the eastern end of site.
10. MF from Recon indicated that Tom Tanner and Brad Lockheart from Recon were expected on site on Wednessday and Thursday.
11. 1600 Scott Williams arrived on site and inspected stockpile area. Scott said that he was advised to come down to observe Edger's milling and stockpiling of the asphalt in the school parking lot.

PROBLEMS ENCOUNTERED/ DELAYS

MODIFICATIONS TO PLANNED SCOPE OF WORK

QA/QC Samples

QA/QC Sample	**Parent Sample**

MISCELLANEOUS ITEMS

OTHER INFORMATION

Time Work Started – Completed: 0700 – 1630 hrs	Prepared By: Ashwin Ranna

SITE PHOTOGRAPHS	
Photograph 1 Date: 6/28/2017 Direction: East Edger Stockpiling milled asphalt next to tennis court excavation area silt fence	
Photograph 2 Date: 6/28/2017 Direction: North Access road Construction	

SITE PHOTOGRAPHS	
Photograph 3 Date: 6/28/2017 Direction: East Silt fence installed along perimeter fence for southern excavation	
Photograph 4 Date: 6/28/2017 Direction: South Conex box marked with tags used for storing nuclear density gauge	

Geosyntec consultants

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DAILY FIELD REPORT

PROJECT AND SITE INFORMATION

PROJECT: Unisys/Elmira	DATE: 6/29/2017	
DESCRIPTION: Field CQA	PROJECT NO.: MN0832B	PHASE NO.:25
CLIENT: Unisys	LOCATION: Elmira, NY	
CONTRACTOR(S): Recon		
WEATHER: 68-83 F; Partly Cloudy		

ON-SITE PERSONNEL

NAME	COMPANY	POSITION
Ashwin Ranna	Geosyntec Consultants	Staff engineer
Michael Furlong	Recon	Project Superintendent
Kyle Snyder	Recon	Project Engineer
Rodney Cockerel	Recon	Site Safety Officer
Genea Gramling	Recon	
Multiple Recon Employees	Recon	

VISITOR'S NAME	COMPANY
Scott Williams	NYSDEC

EQUIPMENT LIST

DESCRIPTION (QTY)	MODEL NO.	COMMENTS
PID	MiniRAE3000	1
PID (Recon)	MultiRAE	2
Dust monitor (Recon)	Thermoscientific PDR 1500	10
Nuclear Gauge	Troxler	1

MATERIALS DELIVERED

DESCRIPTION	QTY	CONDITIONS / COMMENTS

DESCRIPTION OF WORK

Field Activities

1. Geosyntec arrived on site at 0650 and inspected tarp and fence at stockpile area. AR attended the site safety meeting with Recon. Reviewed the HASP, using the right tool for the job and Contaminants of concern.
2. 5 Dust monitors were installed along the perimeter and upwind of the Northern excavation area (tennis court area). Some high readings were observed at the upwind location. These values were observed to coincide with vehicle movement (Capital projects contractor Edger was milling asphalt in the parking lot and shifting milled material near the upwind monitor.).
3. 5 Dust monitors were installed in the stockpile area. No exceedances were observed at this location.
4. Between 0800 and 0850 AR attended the teleconference call with Recon and Unisys. Recon was receiving material to place as a base for the stockpile area and spreading it out over the geotextile.
5. Between 0730 and 1200 Recon corrected the Truck wash out for the Tennis court and began construction of the truck wash out at the stockpile area.
6. Recon Broke for lunch between 1200 and 1230.
7. Scott Williams was on site at 1330.
8. Between 1330 and 1715 Recon carried out levelling operations in stockpile area.
9. AR conducted an E&S walk along site and identified some sections of stockpile area where silt socks needed to be repaired. Talked to MF about repairs and queried about plans for working on the weekend. MF responded that Recon planned to not work on Saturday this week or Monday next week and would only resume work on Wednesday next week.
10. Geosyntec left site at 1730.

PROBLEMS ENCOUNTERED/ DELAYS

MODIFICATIONS TO PLANNED SCOPE OF WORK

QA/QC Samples

QA/QC Sample	**Parent Sample**

MISCELLANEOUS ITEMS

Edger is on schedule to complete milling the parking lot area by end of this week.

OTHER INFORMATION

Time Work Started – Completed: 0650 – 1730 hrs	Prepared By: Ashwin Ranna

SITE PHOTOGRAPHS	
Photograph 1	
Date: 6/29/2017	
Direction: North	
Constructing Truck wash at Stockpile area	
Photograph 2	
Date: 6/29/2017	
Direction: South East	
Installing Item 4 base in stockpile area	

SITE PHOTOGRAPHS	
Photograph 3 Date: 6/29/2017 Direction: South Placing Geotextile in stockpile area	
Photograph 4 Date: 6/29/2017 Direction: East Tarp on stockpile at end of day.	

Geosyntec consultants

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612.253.8205

DAILY FIELD REPORT

PROJECT AND SITE INFORMATION

PROJECT: Unisys/Elmira	DATE: 6/30/2017	
DESCRIPTION: Field CQA	PROJECT NO.: MN0832B	PHASE NO.:25
CLIENT: Unisys	LOCATION: Elmira, NY	
CONTRACTOR(S): Recon		
WEATHER: 68-86 F; Partly Cloudy		

ON-SITE PERSONNEL

NAME	COMPANY	POSITION
Ashwin Ranna	Geosyntec Consultants	Staff engineer
Michael Furlong	Recon	Project Superintendent
Kyle Snyder	Recon	Project Engineer
Rodney Cockerel	Recon	Site Safety Officer
Genea Gramling	Recon	Site Safety Officer
Multiple Recon Employees	Recon	

VISITOR'S NAME	COMPANY
Scott Williams	NYSDEC

EQUIPMENT LIST

DESCRIPTION (QTY)	MODEL NO.	COMMENTS
PID	MiniRAE3000	1
PID (Recon)	MultiRAE	2
Dust monitor (Recon)	Thermoscientific PDR 1500	10
Nuclear Gauge	Troxler 3440	1

MATERIALS DELIVERED

DESCRIPTION	QTY	CONDITIONS / COMMENTS
Roller (Recon)	1	1
Dump truck (Rxecon)	1	1

DESCRIPTION OF WORK

Field Activities

1. Geosyntec arrived on site at 0650 and inspected tarp and fence at stockpile area. AR attended the site safety meeting with Recon. Reviewed action levels.
2. 5 Dust monitors were installed in the stockpile area. Some high readings associated with vehicular movement were observed. Additional dust control measures were implemented and readings stabilized below action levels.
3. Between 0730 and 1500 Recon received material for the stockpile area and spread it out over geotextile.
4. Between 1500 and 1700 Recon compacted the base material.
5. MF conveyed to AR that site would be inactive between Saturday and Tuesday. Recon would be monitoring site on a daily basis to inspect poly cover and perimeter fence status during this time period.
6. 1200 Scott Williams from DEC was on site. He said that Tim would be reviewing all submittals on Monday.
7. Recon Broke for lunch between 1200 and 1230.
8. Recon replaced silt sox around the stockpile area.
9. PDRs were taken down at 1630. AR reviewed data with Recon.
10. Geosyntec left site at 1730.

PROBLEMS ENCOUNTERED/ DELAYS

MODIFICATIONS TO PLANNED SCOPE OF WORK

QA/QC Samples

QA/QC Sample	**Parent Sample**

MISCELLANEOUS ITEMS

OTHER INFORMATION

Time Work Started – Completed: 0650 – 1730 hrs	Prepared By: Ashwin Ranna

SITE PHOTOGRAPHS	
Photograph 1	
Date: 6/29/2017	
Direction: South East	
Levelling in stockpile area on top of Geotextile. Base Layer 4” Item 4	
Photograph 2	
Date: 6/29/2017	
Direction: South East	
Compacting Base	

SITE PHOTOGRAPHS	
Photograph 3 Date: 6/30/2017 Direction: South Tennis Court area Stockpile Covered with Poly	
Photograph 4 Date: 6/30/2017 Direction: East Tarp on stockpile at end of day.	

Geosyntec consultants

100 Washington Avenue South, Suite 1590
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DAILY FIELD REPORT

PROJECT AND SITE INFORMATION

PROJECT: Unisys/Elmira	DATE:7/05/2017	
DESCRIPTION: Field CQA	PROJECT NO.: MN0832B	PHASE NO.:25
CLIENT: Unisys	LOCATION: Elmira, NY	
CONTRACTOR(S): Recon		
WEATHER: 63-85 F; Partly Cloudy		

ON-SITE PERSONNEL

NAME	COMPANY	POSITION
Ashwin Ranna	Geosyntec Consultants	Staff engineer
Michael Furlong	Recon	Project Superintendent
Kyle Snyder	Recon	Project Engineer
Rodney Cockerel	Recon	Site Safety Officer
Multiple Recon Employees	Recon	
Tom Ramsey	Geosyntec Consultants	Principal
Tom Tanner	Recon	
John Geary	Recon	Project manager

VISITOR'S NAME	COMPANY
Scott Williams	NYSDEC
Dom Insogna	EHS

EQUIPMENT LIST

DESCRIPTION (QTY)	MODEL NO.	COMMENTS
PID	MiniRAE3000	1
PID (Recon)	MultiRAE	2
Dust monitor (Recon)	Thermoscientific PDR 1500	10
Nuclear Gauge	Troxler 3440	1

MATERIALS DELIVERED

DESCRIPTION	QTY	CONDITIONS / COMMENTS
Excavator	1	1
Trucks (Edger for Recon)	1	1

DESCRIPTION OF WORK

Field Activities

1. AR arrived on site at 0650.Inspected stockpile area poly and fence. Attended site safety meeting. Reviewed active shooter incident on road adjacent to site that occurred on Sunday. Discussed site activities for the day; MF designated personnel to inspect trucks as they entered and left the stockpile areas and excavation area and to oversee flagging of vehicles leaving the north Tennis excavation area.
2. 0745 2 trucks arrived from Edger on site. Stockpile area truck wash being completed. Installed perforated bucket at lowest point to place pump for water added gravel along the berms. AR talked to MF about additional gravel and finishing requirements and was told that Recon would carry out the adjustments later in the day.
3. Recon carried out installing fence supports and transported 54 truckloads (~ 900 Cu yds.) to the stockpile area between 0805 and 1730.
4. An excavator was delivered to the stockpile area and used to compile the unloaded material and create berms in the stockpile.
5. AR checked the PDRs in the stockpile area multiple times. Although point high readings were observed during unloading, STEL levels did not reach action levels. Recon carried out frequent watering on site.
6. TR arrived on site at 1130. A site walk with Recon was done and a meeting held in the trailer.
   a) JG mentioned that Edger was replacing the storm drains on site with new materials and Geosyntec should identify if Recon need to match the newly placed material or the existing materials during work in the southern section.(for the utility tie ins)
   b) Recon pointed out that it may be viable to install permanent fencing for the stockpile area.
   c) TR confirmed that Geosyntec would be carrying out all the sampling in the stockpile area and reviewed the requirements for backfill of material that passed the chemical analyses. Bottleware has been ordered and should be on site tomorrow.
   d) Recon confirmed that August 8 would need to be the last day for excavation and that backfilling would need to begin post August 8th to allow for school to reopen as per schedule.
   e) It was identified that the base for the monument in the south excavation extended into the TSCA material. If the monument is not being replaced the base would need to be deconned during excavation.
7. Scott Williams was on site at 1215. He inspected the stockpile area and went into some detail of the work in the truck wash and the stockpile subbase. We reviewed the detail drawings and he indicated that he was satisfied with the execution on site. He also asked about additional personnel on site for sampling and about further delineation within the southern excavation area. He took notes on the truck logging and decon procedures.
8. Dom Insogna from EHS visited site around 1245.
9. TR left site at 1500. AR inspected PDR activity, truck loading and unloading, and checked on signs for Nuclear gauge in conex box.
10. Between1730 and 1950 Recon carried out repairs to the stockpile truck washout , covered the stockpile with poly and closed site.
11. 1955 AR left site.

PROBLEMS ENCOUNTERED/ DELAYS

MODIFICATIONS TO PLANNED SCOPE OF WORK

It might be more efficient to provide a replacement monument and dispose of current stone.
Recon is currently reviewing the excavation plan to identify how to end work so as to avoid impacting the parking lot during next phase of work.

QA/QC Samples

QA/QC Sample	**Parent Sample**

MISCELLANEOUS ITEMS

OTHER INFORMATION

Time Work Started – Completed: 0650 – 1955 hrs	Prepared By: Ashwin Ranna

SITE PHOTOGRAPHS	
Photograph 1	
Date: 07/05/2017	
Direction: North	
Completing stockpile washout	
Photograph 2	
Date: 07/05/2017	
Direction: North	
Decon truck leaving stockpile area.	

SITE PHOTOGRAPHS

Photograph 3 Date: 07/05/2017 Direction: South Leveling and shaping unloaded material into windrows with berms	
Photograph 4 Date: 07/05/2017 Direction: East Tarp on stockpile at end of day.	

Geosyntec consultants

100 Washington Avenue South, Suite 1590
Minneapolis, Minnesota 55401
612.253.8205

DAILY FIELD REPORT

PROJECT AND SITE INFORMATION

PROJECT: Unisys/Elmira	DATE:7/08/2017	
DESCRIPTION: Field CQA	PROJECT NO.: MN0832B	PHASE NO.:25
CLIENT: Unisys	LOCATION: Elmira, NY	
CONTRACTOR(S): Recon		
WEATHER: 65-85 F; Cloud – Sunny, Multiple sudden brief showers in afternoon		

ON-SITE PERSONNEL

NAME	COMPANY	POSITION
Ashwin Ranna	Geosyntec Consultants	Staff engineer
Michael Furlong	Recon	Project Superintendent
Kyle Snyder	Recon	Project Engineer
Rodney Cockerel	Recon	Site Safety Officer
Multiple Recon Employees	Recon	

VISITOR'S NAME	COMPANY
Scott Williams	NYSDEC

EQUIPMENT LIST

DESCRIPTION (QTY)	MODEL NO.	COMMENTS
PID	MiniRAE3000	1
PID (Recon)	MultiRAE	2
Dust monitor (Recon)	Thermoscientific PDR 1500	10
Nuclear Gauge	Troxler 3440	1

MATERIALS DELIVERED

DESCRIPTION	QTY	CONDITIONS / COMMENTS
Skid steer (Recon)	1	
Trucks (Edger for Recon)	3	
Vacuum Truck (Badger for Recon)	1	

DESCRIPTION OF WORK

Field Activities

1. AR arrived on site at 0650.Inspected stockpile area poly and fence. Attended site safety meeting. Topics discussed included Foot protection and walking on uneven surfaces. MF reviewed site activities for the day (Excavating in tennis court area and placing stockpile material in windrows.); MF designated personnel to inspect trucks as they entered and left the stockpile area and excavation area and to oversee flagging of vehicles leaving the north Tennis excavation area.
2. 3 trucks arrived from Edger on site. Fresh fill was placed in stockpile area on top of geotextile. AR calibrated PID and reviewed placement of PDRs.
3. 0750 Recon began loading trucks. The tennis court excavation area was demarcated and the asphalt along the road was saw cut. Saws cutting caused increased readings along one DW PDR. Water was sprayed to reduce dust levels. The orange security fence and silt fence along the asphalt was taken down to allow excavation within the road. Between 0750 and 1600 Recon transported 39 truckloads of material (~670 Cu yds.) from the northern excavation area to the stockpile area. An excavator at the stockpile area was used to compile the unloaded material into windrows and create berms in the stockpile.
4. At 1030 Stirling requested AR to remind Recon that any movement of vehicles between the north and south areas should avoid going across the parking lot. If movement had to go through the parking lot, the equipment would need to be deconned. AR conveyed the same to MF. (Skid steer had driven between North and south sites across parking lot)
5. Contractor broke for lunch between 1200 and 1230. Scott Williams arrived on site at 1230. He was initially down at the stockpile area and later met AR at the tennis court excavation area. He asked questions about the remaining space available within the stockpile area. He also had questions about the schedule for sampling and additional personnel on site. He reiterated that Tim was planning to be on site on Monday. He also wanted to know about an STCC semi parked adjacent to the stockpile area.
6. Between 1200 and 1500 multiple sudden showers occurred on site. Excavating and loading continued after lunch. Excavating under the truck wash in the north area underway. Approximately 85% of the northern excavation is complete.
7. Stockpiles were tarped at end of day. A security fence was installed along the edge of the open excavation. Reviewed PDR data. One point with elevated readings, associated with saw cutting asphalt road.
8. 1715 AR left site. MF confirmed that he would be inspecting the site in case of weather tomorrow.

PROBLEMS ENCOUNTERED/ DELAYS

MODIFICATIONS TO PLANNED SCOPE OF WORK

QA/QC Samples

QA/QC Sample	**Parent Sample**

MISCELLANEOUS ITEMS

OTHER INFORMATION

Time Work Started – Completed: 0650 – 1715 hrs	Prepared By: Ashwin Ranna

SITE PHOTOGRAPHS	
Photograph 1	
Date: 07/08/2017	
Direction: East	
Spraying water to saw cut asphalt along North excavation	
Photograph 2	
Date: 07/08/2017	
Direction: West	
North Excavation~85% complete, Excavating under truck wash in progress.	

SITE PHOTOGRAPHS	
Photograph 3 Date: 07/08/2017 Direction: South Security fence along edge of excavation	
Photograph 4 Date: 07/08/2017 Direction: East Tarp on stockpile at end of day.	

Geosyntec consultants

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DAILY FIELD REPORT

PROJECT AND SITE INFORMATION

PROJECT: Unisys/Elmira	DATE:7/10/2017	
DESCRIPTION: Field CQA	PROJECT NO.: MN0832B	PHASE NO.:25
CLIENT: Unisys	LOCATION: Elmira, NY	
CONTRACTOR(S): Recon		
WEATHER: 65-85 F Partially Cloudy		

ON-SITE PERSONNEL

NAME	COMPANY	POSITION
Ashwin Ranna	Geosyntec Consultants	Staff engineer
Jay Thompson	Geosyntec Consultants	Engineer
Alexandra Ambrosino	Geosyntec Consultants	Staff engineer
Ellen Buelow	Geosyntec Consultants	Staff geologist
Michael Furlong	Recon	Project Superintendent
Kyle Snyder	Recon	Project Engineer
Rodney Cockerel	Recon	Site Safety Officer
Seth Lovell	Hunt (Recon)	Surveyor
Multiple Recon Employees	Recon	

VISITOR'S NAME	COMPANY
Scott Williams+1	NYSDEC
Timothy A Schneider	NYSDEC

EQUIPMENT LIST

DESCRIPTION (QTY)	MODEL NO.	COMMENTS
PID	MiniRAE3000	2
PID (Recon)	MultiRAE	2
Dust monitor (Recon)	Thermoscientific PDR 1500	10
Nuclear Gauge	Troxler 3440	1
GPRS		1

MATERIALS DELIVERED

DESCRIPTION	QTY	CONDITIONS / COMMENTS
Trucks (Edger for Recon)	2	
Sampling Coolers	10	For stockpile and delineation sampling

DESCRIPTION OF WORK

1. Geosyntec arrived at site at 0700 and attended the daily site meeting and safety moment conducted by Recon. Recon reviewed the day's plans including: Completing excavation in the northern area and stockpiling material, preparing the southern area for excavation.. Once excavation was complete Recon planned to complete a survey to confirm excavation limits were reached. The topics discussed in the safety meet included Heat stress and working around heavy equipment.
2. Between 0710 and 0730 Geosyntec carried out a safety tailgate reviewing hazards of working on site, and routes to nearby hospitals. Geosyntec then began a site walkthrough to review borings to be carried out in the south excavation area.
3. At 0730 Aron K called and reviewed sampling procedures for the stockpile.
4. 2 trucks arrived from Edger on site. Truck loading began at 0750 and continued till 1400. All excavation in the north area was completed. Surveyor began verifying that requisite depth had been excavated at all locations.
5. Between 0730 and 1230 Recon marked out divisions in windrows to identify 100 Cuyds and also marked out utilities in the southern excavation area.
6. At 0830 a resident across the street yelled at the flagman that she was unable to breathe. On reviewing the PDR readings levels were seen to be well below action levels. However Recon took extra efforts to reduce dust movement during loading trucks. No PID readings were observed.
7. Cascade arrived on site at 0930. Boring began around 1230 after site walk utility markout and setup.
8. DEC arrived on site at 1100. They headed to the stockpile area and performed a site walk.
9. DEC met AR around 1200. Tim walked around in the excavation area and identified locations where he wanted additional sidewall or bottom sampling carried out. After talking with AK, 3 samples (see PDF in email for locations) were collected and have been sent to lab for analysis. Tim also asked the surveyor as to how they planned to ensure that the excavation was properly carried out, he seemed satisfied with the surveyors response that the excavation would be carried out using GPRS enabled machine control.
10. DEC headed out for lunch and returned to the stockpile area at 1300 to review stockpile sampling procedures. They requested that the VOC grab samples be collected at least a foot below the surface. AA and JT began collecting samples from the stockpile area. AR relieved JT at 1430 and JT headed over to assist EB with borings. AR and AA collected 4 sets of samples from the first windrow between 1430 and 1730.
11. During the walkthrough in the south excavation Tim expressed concern that the privacy fence had fallen down and that the silt fence had not yet been completely installed.
12. At 1500 DEC left site and confirmed that they would be returning tomorrow to continue overseeing sampling.
13. PDR's were pulled at 1630. Geosyntec began preparing samples for shipping. Recon shut down and left site at 1700. Stockpiles were tarped and security fence was installed along edge of open excavation.
14. Between 1630 and 1800 Geosyntec packed coolers. AR and EB stayed behind to close down site, while JT and AA headed to fedex to ship samples.
15. 1815 AR and EB left site.

SAMPLES COLLECTED

Windrow 1, Sec 1, A; Windrow 1,Sec 1,B ,Windrow 1, Sec 1,C; Windrow 1, Sec 2, A; Windrow 1,Sec 2,B ,Windrow 1, Sec 2,C; Windrow 1, Sec 3, A; Windrow 1,Sec 3,B ,Windrow 1, Sec 3,C; Windrow 1, Sec 4, A; Windrow 1,Sec 4,B ,Windrow 1, Sec 4,C;North excavation SW S1; North excavation BW S2; North excavation BW S3.

PROBLEMS ENCOUNTERED/ DELAYS

MODIFICATIONS TO PLANNED SCOPE OF WORK

VOC samples to be collected 1' below surface.

QA/QC Samples

QA/QC Sample	**Parent Sample**
DUP-1	Windrow 1,Sec 3, A
DUP-2	Windrow 1,Sec 3, C

MISCELLANEOUS ITEMS

OTHER INFORMATION

Time Work Started – Completed: 0650 – 1815 hrs	Prepared By: Ashwin Ranna

SITE PHOTOGRAPHS	
Photograph 1	
Date: 07/10/2017	
Direction: East	
Truck loading with Diaper installed.	
Photograph 2	
Date: 07/08/2017	
Direction: South	
Drilling for samples in the southern excavation area.	

SITE PHOTOGRAPHS	
Photograph 3 Date: 07/08/2017 Direction: West Security fence along edge of excavation. Small stockpile of material created after surveyor checked the extents of excavation. To be moved in the morning tomorrow.	
Photograph 4 Date: 07/10/2017 Direction: East Tarp on stockpile at end of day. Paint marks on ground indicate limits of 100cu yds.	

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DAILY FIELD REPORT

PROJECT AND SITE INFORMATION

PROJECT: Unisys/Elmira	DATE:7/11/2017	
DESCRIPTION: Field CQA	PROJECT NO.: MN0832B	PHASE NO.:25
CLIENT: Unisys	LOCATION: Elmira, NY	
CONTRACTOR(S): Recon		
WEATHER: 66-83 F Partially Cloudy		

ON-SITE PERSONNEL

NAME	COMPANY	POSITION
Ashwin Ranna	Geosyntec Consultants	Staff engineer
Jay Thompson	Geosyntec Consultants	Engineer
Alexandra Ambrosino	Geosyntec Consultants	Staff engineer
Ellen Buelow	Geosyntec Consultants	Staff geologist
Michael Furlong	Recon	Project Superintendent
Kyle Snyder	Recon	Project Engineer
Rodney Cockerel	Recon	Site Safety Officer
Multiple Recon Employees	Recon	

VISITOR'S NAME	COMPANY
Scott Williams+1	NYSDEC

EQUIPMENT LIST

DESCRIPTION (QTY)	MODEL NO.	COMMENTS
PID	MiniRAE3000	2
PID (Recon)	MultiRAE	2
Dust monitor (Recon)	Thermoscientific PDR 1500	10
Nuclear Gauge	Troxler 3440	1
GPRS		1

MATERIALS DELIVERED

DESCRIPTION	QTY	CONDITIONS / COMMENTS
Trucks (Edger for Recon)	1	
Sampling Coolers	10	For stockpile and delineation sampling

DESCRIPTION OF WORK

1. Geosyntec arrived at site at 0700 and attended the daily site meeting and safety meeting conducted by Recon. Recon reviewed the day's plans including: Completing excavation in the northern area and stockpiling material, Installing silt fence and privacy fencing along the southern excavation area. The topics discussed in the safety meet included storm warnings, and awareness while working on site.
2. PDRs were installed and truck loading of remaining excavation material began. The last 6 truckloads of material were shifted to the stockpile area. The excavator was cleaned of all dirt and tracked across the parking lot towards the south excavation area after receiving permission from Edger and Stirling.
3. DEC arrived onsite at 0930. They reviewed the boring being done in the south area and granted permission to begin sampling today. They reviewed the sampling process and said that they would be back on site early tomorrow. Scott also gave permission to begin sampling prior to his arrival on site to speed up stockpile sampling.
4. Scott mentioned that he was concerned that the access road between EHS and STCC had a Dip in it that might cause issues during hauling of material. MF of Recon said that the trucks would be able to handle the slope.
5. Recon carried out Privacy fence, silt fence and silt sock installation as preparation for the southern excavation. In the stockpile area Recon was completed preparing the base layer of the entire stockpile area and shaped all material in the stockpile into windrows. Currently there is space for about 700 Cu yds within the stockpile.
6. Recon Broke for lunch between 1200 and 1230.
7. PDR's were taken down at 1400. No elevated readings were observed. No further equipment based soil movement was carried out after 1400.
8. Geosyntec collected 11 sets (2 VOC, 1 Composite= 1 set) of samples from the stockpile area completing sampling of the first three windrows within the stockpile area. Sampling continued till 1600 after which samples were packed and shipped.
9. AA and JT left site to ship samples at 1815. Samples were shipped at Fedex around 1845.
10. AR and EB completed closing down the site and left site at 1845.

SAMPLES COLLECTED

W1,S5,A71117;W1,S5,B71117;W1,S5,C71117; W2,S1,A71117;W2,S1,B71117;W2,S1,C71117;
W2,S2,A71117;W2,S2,B71117;W2,S2,C71117; W2,S3,A71117;W2,S3,B71117;W2,S3,C71117;
W2,S4,A71117;W2,S4,B71117;W2,S4,C71117; W2,S5,A71117;W2,S5,B71117;W2,S5,C71117;
W3,S1,A71117;W3,S1,B71117;W3,S1,C71117; W3,S2,A71117;W3,S2,B71117;W3,S2,C71117;
W3,S3,A71117;W3,S3,B71117;W3,S3,C71117; W3,S4,A71117;W3,S4,B71117;W3,S4,C71117;
W3,S5,A71117;W3,S5,B71117;W3,S5,C71117;

PROBLEMS ENCOUNTERED/ DELAYS

MODIFICATIONS TO PLANNED SCOPE OF WORK

Additional samples have been ordered.

QA/QC Samples

QA/QC Sample	**Parent Sample**
DUP-3	W2,S4,B71117
DUP-4	W2,S4,C71117
DUP-5	W3,S2,A71117

MISCELLANEOUS ITEMS

OTHER INFORMATION

Time Work Started – Completed: 0645 – 1845 hrs	Prepared By: Ashwin Ranna

SITE PHOTOGRAPHS	
Photograph 1	
Date: 07/11/2017	
Direction: East	
Access road between STCC and EHS .	
Photograph 2	
Date: 07/1/2017	
Direction: East	
Repaired privacy fence and silt fence around track area	

SITE PHOTOGRAPHS	
Photograph 3 Date: 07/11/2017 Direction: North Completed Northern excavation. Area has been surveyed and Recon is to submit survey details to Geosyntec for approval prior to backfill.	
Photograph 4 Date: 07/11/2017 Direction: East Tarp on stockpile at end of day. Total of ~3800 cuyds of material has been stored in stockpile area (all from north excavation). Approximately room for additional 700cuyds.	

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DAILY FIELD REPORT

PROJECT AND SITE INFORMATION

PROJECT: Unisys/Elmira	DATE:7/12/2017	
DESCRIPTION: Field CQA	PROJECT NO.: MN0832B	PHASE NO.:25
CLIENT: Unisys	LOCATION: Elmira, NY	
CONTRACTOR(S): Recon		
WEATHER: 70-84 F Overcast several sudden showers		

ON-SITE PERSONNEL

NAME	COMPANY	POSITION
Ashwin Ranna	Geosyntec Consultants	Staff engineer
Jay Thompson	Geosyntec Consultants	Engineer
Alexandra Ambrosino	Geosyntec Consultants	Staff engineer
Ellen Buelow	Geosyntec Consultants	Staff geologist
Michael Furlong	Recon	Project Superintendent
Kyle Snyder	Recon	Project Engineer
Rodney Cockerel	Recon	Site Safety Officer
Multiple Recon Employees	Recon	

VISITOR'S NAME	COMPANY
Scott Williams	NYSDEC

EQUIPMENT LIST

DESCRIPTION (QTY)	MODEL NO.	COMMENTS
PID	MiniRAE3000	2
PID (Recon)	MultiRAE	2
Dust monitor (Recon)	Thermoscientific PDR 1500	10
Nuclear Gauge	Troxler 3440	1
GPRS		1

MATERIALS DELIVERED

DESCRIPTION	QTY	CONDITIONS / COMMENTS
Sampling Coolers	3	For stockpile and delineation sampling

DESCRIPTION OF WORK

1. Geosyntec arrived at site at 0645 and set up for boring sin the southern excavation area. AR attended the daily site meeting and safety meeting conducted by Recon. Recon reviewed the day's plans including: Installing silt fence and privacy fencing along the southern excavation area and shifting the timbers requested by the school. The topics discussed in the safety meet included storm warnings, foot protection while working on site.
2. PDRs were not installed on account of several storm fronts predicted to reach site and because no soil movement was planned.
3. AR and AA sampled stockpiles from 0800 to 1400. 10 sets of samples (1000 cu yds) were collected along with 3 duplicates and 1 MS/MSD.EB and JT carried out boring sampling within the south excavation area.
4. DEC arrived onsite at 0830. Scott reviewed the boring being done in the south area and granted permission to begin sampling early tomorrow. Scott also observed that the excavator was being used to load the timbers around the mulch bed and passed on a comment from Tim indicating that the DEC was worried that the tread of the excavator would tear up the mulch and geofabric and potentially spread TSCA material. This concern was passed on to Recon following which the excavator dismounted off the mulch bed and removed the remaining timber from outside the mulch bed area. The mulch surface did not appear to have been compromised
5. Jason Plumley of Welliver wanted to know if it was possible to complete excavation outside of the sidewalk on a priority basis. This would allow reinstallation of the parking lot for school to restart.
6. Between 1400 and 1815 Geosyntec labelled, and packed and carried out Decon for the compositing bowls. AR carried out an E&S inspection and identified locations around the north excavation where the silt fence needed to be repaired.
7. AA and JT shipped samples at 1815. EB and AR demobed and left site at 1845.

SAMPLES COLLECTED

W4,S1,A71217;W4,S1,B71217;W4,S1,C71217; W4,S2,A71217;W4,S2,B71217;W4,S2,C71217;
W4,S3,A71217;W4,S3,B71217;W4,S3,C71217; W4,S4,A71217;W4,S4,B71217;W4,S4,C71217;
W4,S5,A71217;W4,S5,B71217;W4,S5,C71217;
W5,S1,A71217;W5,S1,B71217;W5,S1,C71217; W5,S2,A71217;W5,S2,B71217;W5,S2,C71217;
W5,S3,A71217;W5,S3,B71217;W5,S3,C71217; W5,S4,A71217;W5,S4,B71217;W5,S4,C71217;
W5,S5,A71217;W5,S5,B71217;W5,S5,C71217;

PROBLEMS ENCOUNTERED/ DELAYS

MODIFICATIONS TO PLANNED SCOPE OF WORK

QA/QC Samples

QA/QC Sample	**Parent Sample**
DUP-6	W4,S2,C71217
DUP-7	W4,S3,A71217
DUP-8	W5,S4,B71217

MISCELLANEOUS ITEMS

Recon will require permission for backfilling in northern area.
They requested permission for continuing with the soft dig for utilities in the south area.

OTHER INFORMATION

Time Work Started – Completed: 0645 – 1845 hrs	Prepared By: Ashwin Ranna

SITE PHOTOGRAPHS	
Photograph 1	
Date: 07/12/2017	
Direction: South	
Privacy fence installed along southern excavation. Excavator removing timbers around mulch bed.	
Photograph 2	
Date: 07/12/2017	
Direction: East	
No visible breaks in mulch after excavator came off bed.	

SITE PHOTOGRAPHS	
Photograph 3 Date: 07/12/2017 Direction: South Timbers from around stockpile removed. Excavator worked adjacent to mulch bed instead of on top of it.	
Photograph 4 Date: 07/12/2017 Direction: East Tarp on stockpile at end of day. 5 out of 7.5 windrows have been sampled (~2500 cuyds.)	

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DAILY FIELD REPORT

PROJECT AND SITE INFORMATION

PROJECT: Unisys/Elmira	DATE:7/13/2017	
DESCRIPTION: Field CQA	PROJECT NO.: MN0832B	PHASE NO.:25
CLIENT: Unisys	LOCATION: Elmira, NY	
CONTRACTOR(S): Recon		
WEATHER: 67-80 F Overcast several sudden showers		

ON-SITE PERSONNEL

NAME	COMPANY	POSITION
Ashwin Ranna	Geosyntec Consultants	Staff engineer
Jay Thompson	Geosyntec Consultants	Engineer
Alexandra Ambrosino	Geosyntec Consultants	Staff engineer
Ellen Buelow	Geosyntec Consultants	Staff geologist
Michael Furlong	Recon	Project Superintendent
Kyle Snyder	Recon	Project Engineer
Rodney Cockerel	Recon	Site Safety Officer
Multiple Recon Employees	Recon	
Brad Lockheart	Recon	Safety coordinator
VISITOR'S NAME		COMPANY
Scott Williams		NYSDEC

EQUIPMENT LIST

DESCRIPTION (QTY)	MODEL NO.	COMMENTS
PID	MiniRAE3000	2
PID (Recon)	MultiRAE	2
Dust monitor (Recon)	Thermoscientific PDR 1500	10
Nuclear Gauge	Troxler 3440	1
GPRS		1

MATERIALS DELIVERED

DESCRIPTION	QTY	CONDITIONS / COMMENTS
Sampling Coolers	3	For stockpile and delineation sampling

DESCRIPTION OF WORK

1. Geosyntec arrived at site at 0645 and set up for boring sin the southern excavation area. AR attended the daily site meeting and safety meeting conducted by Recon. Recon reviewed the day's plans including: Installing silt fence and privacy fencing along the southern excavation area, Constructing Decon stations and installing the access roads. The topics discussed in the safety meet included storm warnings, and preparing for a job and job site awareness.
2. PDRs were not installed on account of several storm fronts predicted to reach site and because no soil movement was planned.
3. AR and AA sampled stockpiles from 0800 to 1400. 10 sets of samples (1000 cu yds) were collected along with 5 duplicates and 3 MS/MSDs.EB and JT carried out boring sampling within the south excavation area.
4. DEC arrived onsite at 0900 Scott reviewed the boring being done in the south area and granted permission to begin sampling early tomorrow. Scott identified some pieces of geofabric in the stockpiled material (From the dismantled truck wash in the north excavation area) and requested that such pieces be removed prior to backfilling.
5. Between 0930 and 1500 Ar followed up multiple times with Fedex to locate the coolers of stockpile samples. Although the coolers were located in Memphis later in the day the samples will not arrive to the lab till after 10 tomorrow. The VOC samples collected in the first half of yesterday would be beyond their hold time. As such the VOC samples collected in the first half of yesterday were resampled and shipped today.
6. At 1500 to 1530 there was a joint meeting via teleconference, and details related to the south excavation area were reviewed. Minutes of meeting were summarized in Paul's email sent out to all participants copied below:

   Due to schedule requirements of the ECSD contractor, the scope of excavation will be scaled back to include only the 0 – 2 ft and 2 – 4 ft excavations shown on Drawing 8 of the IRM plan. A demarcation layer will be installed at the base of the excavation prior to requesting NYSDEC approval to backfill. As a result, it is recognized that in the future, the parking lot repaving will have to be cut and repaired in the future in order to excavate soils as shown at lower depths on Drawing 8.
   RECON intends to begin the excavation by removing the 0 – 2 ft and 2 – 4 ft layers within the parking lot first, then moving to areas outside the parking lot. RECON will lay out the limits of the TSCA excavation with a surveyor and will incorporate this data into GPS-enabled equipment prior to starting the excavation.
   In order to address areas of the 0-2' layer that overly TSCA materials in the 2-4' layer, Geosyntec has collected additional soil samples for laboratory analysis from the 0 – 2 ft interval excavation as identified in Tim Schneider's comments to the IRM investigation plan provided on July 13 (see attached sketch). This data is expected to be in-hand on Monday, July 17 in order to identify if soils >50 ppm PCBs (TSCA materials) in the 0 – 2 ft excavation interval. For areas in the 0-2' interval above TSCA materials where analytical data is not available, those soils will be excavated, and stored on a plastic liner until analytical data is available for proper disposition.
   Marking of the 0-2' areas will begin tomorrow.
7. Recon Labor left site at around 1530. Silt fences had been repaired and decon stations were installed at the perimeter of the excavation area by Recon.
8. Between 1600 and 1830 Geosyntec labelled, and packed samples for shipping.
9. JT and AR shipped samples at 1830.geosyntec returned to site to shut down and demobed from site at 1950.

SAMPLES COLLECTED

W4,S1,A71317;W4,S1,B71317; W4,S2,A71317;W4,S2,B71317; W4,S3,A71317;W4,S3,B71317;
W4,S4,A713217;W4,S4,B71317; W4,S5,A71317;W4,S5,B71317;
W6,S1,A71317;W6,S1,B71317;W6,S1,C71317; W6,S2,A71317;W6,S2,B71317;W6,S2,C71317;
W6,S3,A71317;W6,S3,B71317;W6,S3,C71317; W6,S4,A713217;W6,S4,B71317;W6,S4,C71317;
W6,S5,A71317;W6,S5,B71317;W6,S5,C71317;
W7,S1,A71317;W7,S1,B71317;W7,S1,C71317; W7,S2,A71317;W7,S2,B71317;W7,S2,C71317;
W7,S3,A71317;W7,S3,B71317;W7,S3,C71317; W7,S4,A713217;W7,S4,B71317;W7,S4,C71317;
W7,S5,A71317;W7,S5,B71317;W7,S5,C71317;
W8,S1,A71317;W8,S1,B71317;W8,S1,C71317; W8,S2,A71317;W8,S2,B71317;W8,S2,C71317;
W8,S3,A71317;W8,S3,B71317;W8,S3,C71317;

PROBLEMS ENCOUNTERED/ DELAYS

Fedex misplaced the coolers sent yesterday requiring resampling of all VOCs collected in the first half of the 7.12.2017. All samples have now been collected.
6 inorganic analysis sample jars were overlooked during the packing and shipping of samples. The lab has been notified and the samples are currently kept on ice and will be shipped tomorrow.

MODIFICATIONS TO PLANNED SCOPE OF WORK

QA/QC Samples

QA/QC Sample	**Parent Sample**
DUP-9	W6,S3,B71317
DUP-10	W6,S3,C71317
DUP-11	W7,S4,B71317

DUP-12	W8,S1,B71317
DUP-13	W4,S2,A71317
MISCELLANEOUS ITEMS	
OTHER INFORMATION	
Time Work Started – Completed: 0645 – 1845 hrs	Prepared By: Ashwin Ranna

SITE PHOTOGRAPHS	
Photograph 1	
Date:	
Direction:	
Photograph 2	
Date:	
Direction:	

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DAILY FIELD REPORT

PROJECT AND SITE INFORMATION

PROJECT: Unisys/Elmira	DATE:7/14/2017	
DESCRIPTION: Field CQA	PROJECT NO.: MN0832B	PHASE NO.:25
CLIENT: Unisys	LOCATION: Elmira, NY	
CONTRACTOR(S): Recon		
WEATHER: 61-87 F Overcast Showers towards end of day		

ON-SITE PERSONNEL

NAME	COMPANY	POSITION
Ashwin Ranna	Geosyntec Consultants	Staff engineer
Jay Thompson	Geosyntec Consultants	Engineer
Alexandra Ambrosino	Geosyntec Consultants	Staff engineer
Ellen Buelow	Geosyntec Consultants	Staff geologist
Michael Furlong	Recon	Project Superintendent
Kyle Snyder	Recon	Project Engineer
Rodney Cockerel	Recon	Site Safety Officer
Multiple Recon Employees	Recon	

VISITOR'S NAME	COMPANY
Scott Williams+1	NYSDEC

EQUIPMENT LIST

DESCRIPTION (QTY)	MODEL NO.	COMMENTS
PID	MiniRAE3000	1
PID (Recon)	MultiRAE	2
Dust monitor (Recon)	Thermoscientific PDR 1500	10
Nuclear Gauge	Troxler 3440	1

MATERIALS DELIVERED

DESCRIPTION	QTY	CONDITIONS / COMMENTS

DESCRIPTION OF WORK

FIELD ACTIVITIES

1. AR arrived at site at 0650 and attended the daily site meeting and safety meeting conducted by Recon. Recon reviewed the day's plans including: Installing the truck wash for the haul road and backfilling the northern excavation area. The safety meet reviewed biohazards seen on site and steps to identify and avoid the same.
2. PDRs were installed around the north excavation where backfilling was to take place.
3. AA arrived at site at 0830.
4. Lab conveyed that samples had arrived at 1000.
5. DEC arrived onsite at 1200 Scott reviewed the construction of the truck wash and inspected the north excavation backfill. DEC said they will be back on Monday.
6. Recon carried out construction and backfilling of north excavation from 0730 to 1730. Orange snow fence was laid down on the ground to act as a demarcation layer prior to placing backfill. Recon broke for lunch between 1200 and 1230.
7. JT and EB completed Decon and demobed from site at 1330. Samples were shipped at 1600.
8. AR carried out an E&S inspection at 1430.
9. Recon backfilled 2 lifts along the northern edge of the northern excavation along the asphalt road to improve vehicle safety.
10. Recon surveyor marked out the extent of TSCA material in the southern excavation area.
11. Recon Labor left site at around 1730.
12. At end of day MF conveyed that Recon would not be working on Saturday this week. Recon personnel would be on site over the weekend to inspect the fence and tarp on the stockpile areas.
13. AR left site at 1800.

SAMPLES COLLECTED

PROBLEMS ENCOUNTERED/ DELAYS

MODIFICATIONS TO PLANNED SCOPE OF WORK

QA/QC Samples

QA/QC Sample	**Parent Sample**

MISCELLANEOUS ITEMS

Samples misplaced by fedex arrived at lab in the morning.

OTHER INFORMATION

Time Work Started – Completed: 0645 – 1800 hrs	Prepared By: Ashwin Ranna

SITE PHOTOGRAPHS	
Photograph 1	
Date:	
Direction:	
Photograph 2	
Date:	
Direction:	

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DAILY FIELD REPORT

PROJECT AND SITE INFORMATION

PROJECT: Unisys/Elmira	DATE:7/17/2017	
DESCRIPTION: Field CQA	PROJECT NO.: MN0832B	PHASE NO.:25
CLIENT: Unisys	LOCATION: Elmira, NY	
CONTRACTOR(S): Recon		
WEATHER: 60-87 F Misty in the morning, thunderstorm at the end of the day		

ON-SITE PERSONNEL

NAME	COMPANY	POSITION
Ashwin Ranna	Geosyntec Consultants	Staff engineer
Michael Furlong	Recon	Project Superintendent
Kyle Snyder	Recon	Project Engineer
Rodney Cockerel	Recon	Site Safety Officer
Genea Gramling	Recon	Site Safety officer
John Geary	Recon	Project Manager
Multiple Recon Employees	Recon	

VISITOR'S NAME	COMPANY
Scott Williams	NYSDEC

EQUIPMENT LIST

DESCRIPTION (QTY)	MODEL NO.	COMMENTS
PID	MiniRAE3000	1
PID (Recon)	MultiRAE	2
Dust monitor (Recon)	Thermoscientific PDR 1500	10
Nuclear Gauge	Troxler 3440	1

MATERIALS DELIVERED

DESCRIPTION	QTY	CONDITIONS / COMMENTS

DESCRIPTION OF WORK

Field Activities

1. AR arrived at site at 0645 and inspected the stockpile area. AR attended the daily site meeting and safety meeting conducted by Recon. Recon reviewed the day's plans including: Backfilling north excavation area and constructing truck wash for TSCA load out and movement of the 0-2' soil above 2-4 area within the southern excavation. The topics discussed in the safety meet included hazard awareness and a review of spill kit locations on site.
2. PDRs were installed around the south excavation area. Trucks arrived to place material for backfill in north excavation area.
3. Recon completed the Haul road truck wash and installed silt socks along the access roads. Recon also removed the bollards along the concrete footpath along the south excavation, to allow movement of trucks to western part of excavation. Recon laid down geotextile to allow trucks to move without coming into contact with soil. AR told recon to stockpile bollards within LOD.
4. Call with AK, reviewed plan for the day. Preparation to load trucks halted. Backfill spreading along northern excavation to prevent demarcation layer from moving.
5. 1115. DEC onsite. Reviewed truck wash construction and requested that final survey data be certified by Surveyor. Reviewed location of TSCA stakeout. Scott conveyed that Tim had an issue with the location of the TSCA demarcation on the drawing 8 and on the aerial images.
6. MF and KS layout extent of truck wash for TSCA delineation. No soil to be moved in south excavation area. Backfill and construction of truck wash underway.
7. 12-1230 Recon broke for lunch. DEC left site at 1400.
8. 1430 lightning on site. Work stopped and restarted at 1600 (30 minutes after last thunder.)
9. Heavy rain on site. Surveyor demarcates TSCA material within parking lot.
10. Backfilling continues till 1730. Between 1600 and 1715 Recon replaces stockpile tarps.
11. Recon demobs from site at 1700. AR left site at 1730.

SAMPLES COLLECTED

PROBLEMS ENCOUNTERED/ DELAYS

MODIFICATIONS TO PLANNED SCOPE OF WORK

QA/QC Samples

QA/QC Sample	**Parent Sample**

MISCELLANEOUS ITEMS

Recon requires topsoil sampling for backfill.

OTHER INFORMATION

Time Work Started – Completed: 0645 – 1730 hrs	Prepared By: Ashwin Ranna

SITE PHOTOGRAPHS	
Photograph 1 Date: 07/17/2017 Direction: West Installing truck wash for TSCA trucks	
Photograph 2 Date: 07/17/2017 Direction: Northwest Survey for TSCA delineation within south excavation	

SITE PHOTOGRAPHS	
Photograph 3 Date: 07/17/2017 Direction: East Compacting first layer backfill at end of day.	
Photograph 4 Date: 07/17/2017 Direction: East Tarp on stockpile at end of day.	

Geosyntec consultants

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DAILY FIELD REPORT

PROJECT AND SITE INFORMATION

PROJECT: Unisys/Elmira	DATE:7/18/2017	
DESCRIPTION: Field CQA	PROJECT NO.: MN0832B	PHASE NO.:25
CLIENT: Unisys	LOCATION: Elmira, NY	
CONTRACTOR(S): Recon		
WEATHER: 59-88 F Misty in the morning		

ON-SITE PERSONNEL

NAME	COMPANY	POSITION
Ashwin Ranna	Geosyntec Consultants	Staff engineer
Alexandra Ambrosino	Geosyntec Consultants	Staff Scientist
Michael Furlong	Recon	Project Superintendent
Kyle Snyder	Recon	Project Engineer
Rodney Cockerel	Recon	Site Safety Officer
Genea Gramling	Recon	Site Safety officer
John Geary	Recon	Project Manager
Seth Lovell	Hunt (for Recon)	Surveyor
Multiple Recon Employees	Recon	

VISITOR'S NAME	COMPANY
Scott Williams	NYSDEC
Mike Barber	NYSDEC

EQUIPMENT LIST

DESCRIPTION (QTY)	MODEL NO.	COMMENTS
PID	MiniRAE3000	1
PID (Recon)	MultiRAE	2
Dust monitor (Recon)	Thermoscientific PDR 1500	10
Nuclear Gauge	Troxler 3440	1

MATERIALS DELIVERED

DESCRIPTION	QTY	CONDITIONS / COMMENTS

DESCRIPTION OF WORK

Field Activities

1. AR arrived at site at 0645 and inspected the stockpile area. AR attended the daily site meeting and safety meeting conducted by Recon. Recon reviewed the day's plans including: Excavating material from the parking lot and stockpiling within the LOD, Construction of the truckwash for TSCA loadout and backfilling north excavation area and constructing truck wash for TSCA load out and movement of the 0-2' soil above 2-4 area within the southern excavation. The topics discussed in the safety meet included Head safety with details reviewed for helmet usage and requirements.
2. PDRs were installed around the south excavation area. Trucks arrived to place material for backfill in north excavation area.
3. Recon moved material from the Parking lot area into 2 separate stockpiles near the monument. Material was segregated based on whether it overlay TSCA or non TSCA material. Asphalt and concrete materials were stockpiled separately. Manual excavation was carried out to locate the Optic fiber line.
4. DEC was on site at 1115. They reviewed the boring locations and held a conference call with the surveyor on site. Scott took physical distance measurements between stakes on site and left site at 1400.
5. Between 1300 and 1500 AA collected soil samples for TS sampling. Samples were labelled and packed on ice. Recon shipped samples at end of day.
6. Excavation of 0-2 material continued till 1430. AR took compaction tests for the first lift of material in the tennis courts. Material met moisture and density requirements. Second layer of backfilling underway.(Approximately 75% of excavation has first lift of backfill)
7. From 1430-1830 Recon prepared TSCA material for loadout in the morning. Truckwash construction continued and soil stockpiles were covered with poly. AR carried out an E&SC inspection and advised Recon to provide inlet protection for 2 drop inlets adjacent to excavation.
8. At 1830 Recon shut down site.
9. AR left site at 1830.

SAMPLES COLLECTED

PROBLEMS ENCOUNTERED/ DELAYS

MODIFICATIONS TO PLANNED SCOPE OF WORK

QA/QC Samples

QA/QC Sample	**Parent Sample**

MISCELLANEOUS ITEMS

Recon requires topsoil sampling for backfill.

OTHER INFORMATION

Time Work Started – Completed: 0645 – 1830 hrs	Prepared By: Ashwin Ranna

SITE PHOTOGRAPHS	
Photograph 1 Date: 07/18/2017 Direction: North Backfilling for Northern excavation	
Photograph 2 Date: 07/18/2017 Direction: East 0-2’ excavation in parking lot section of southern excavation.	

SITE PHOTOGRAPHS	
Photograph 3 Date: 07/18/2017 Direction: East Construction of truck wash for TSCA loading.	
Photograph 4 Date: 07/18/2017 Direction: North Tarp on stockpile within LOD at end of day.	

Geosyntec consultants

100 Washington Avenue South, Suite 1590
Minneapolis, Minnesota 55401
612.253.8205

DAILY FIELD REPORT

PROJECT AND SITE INFORMATION

PROJECT: Unisys/Elmira	DATE:7/19/2017	
DESCRIPTION: Field CQA	PROJECT NO.: MN0832B	PHASE NO.:25
CLIENT: Unisys	LOCATION: Elmira, NY	
CONTRACTOR(S): Recon		
WEATHER: 65-90 F Misty in the morning		

ON-SITE PERSONNEL

NAME	COMPANY	POSITION
Ashwin Ranna	Geosyntec Consultants	Staff engineer
Alexandra Ambrosino	Geosyntec Consultants	Staff Scientist
Michael Furlong	Recon	Project Superintendent
Kyle Snyder	Recon	Project Engineer
Rodney Cockerel	Recon	Site Safety Officer
Genea Gramling	Recon	Site Safety officer
John Geary	Recon	Project Manager
Multiple Recon Employees	Recon	

VISITOR'S NAME	COMPANY
Scott Williams	NYSDEC

EQUIPMENT LIST

DESCRIPTION (QTY)	MODEL NO.	COMMENTS
PID	MiniRAE3000	1
PID (Recon)	MultiRAE	2
Dust monitor (Recon)	Thermoscientific PDR 1500	10
Nuclear Gauge	Troxler 3440	1

MATERIALS DELIVERED

DESCRIPTION	QTY	CONDITIONS / COMMENTS

DESCRIPTION OF WORK

Field Activities

1. AR arrived at site at 0645 and inspected the stockpile area. AR attended the daily site meeting and safety meeting conducted by Recon. Recon reviewed the day's plans including: Excavating TSCA material within 0-2 area off of the parking lot area, Loading TSCA material, and backfilling northern excavation. The topics discussed in the safety meet included heat stress, staying hydrated and a review of site regulations.
2. PDRs were installed around the south excavation area. Surveyor marked out extent of TSCA material within the 0-2 area under the mulch beds. Trucks arrived to place material for backfill in north excavation area. Trailer trucks arrived to take TSCA material offsite. AR observed loading of trailer trucks and signed manifests. A total of 9 truckloads of TSCA material (~198 tons) were shipped today.
3. AA collected geotechnical samples and shipped samples for analysis. AR carried out the final sets of density testing and gave okay for the second lift within the northern excavation. Soil density and moisture percentages were within required standards. AA left site at 1115.
4. DEC arrived on site at 1415. Scott said he was in a rush and requested photos to be forwarded to him of excavation and stockpiling of TSCA material.
5. Between 1430 and 1600 AR carried out compaction tests for the second lift of material in the south excavation. Results were within required specifications. Recon is currently completing final lift of backfill before level surveying northern backfill area.
6. 12-1230 Recon broke for lunch.
7. Backfilling continued till 1700. Recon completed tarping stockpiles and shut down site at 1730. Recon provided filters for the storm drains within the LOD. AR carried out an E&SC inspection at end of day.
8. AR left site at 1730

SAMPLES COLLECTED

PROBLEMS ENCOUNTERED/ DELAYS

MODIFICATIONS TO PLANNED SCOPE OF WORK

Backfill 1, Backfill 2, Backfill 3. For geotechnical analysis.

QA/QC Samples

QA/QC Sample	**Parent Sample**

MISCELLANEOUS ITEMS

Recon plans to load TSCA material (7 trucks) tomorrow
Recon will be sending 0-2 excavated material stored within the LOD to the stockpile tomorrow.
Windrow 1 section 1-4 are planned to be used as refill material in the parking lot.
Recon plans to consolidate windrows 2 and 3 to prepare for loadout tomorrow.

OTHER INFORMATION

Time Work Started – Completed: 0645 – 1730 hrs	Prepared By: Ashwin Ranna

SITE PHOTOGRAPHS	
Photograph 1	
Date: 07/19/2017	
Direction: West	
TSCA material near school excavated	
Photograph 2	
Date: 07/17/2017	
Direction: Northwest	
2nd TSCA area (nearer to Parking lot excavated)	

SITE PHOTOGRAPHS	
Photograph 3 Date: 07/17/2017 Direction: East Backfill of Northern excavation area nearing completion.	
Photograph 4 Date: 07/17/2017 Direction: East TSCA material stored on top of 2-4 TSCA material in parking lot area. Material is stored on poly.	

Geosyntec consultants

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DAILY FIELD REPORT

PROJECT AND SITE INFORMATION

PROJECT: Unisys/Elmira	DATE:7/20/2017	
DESCRIPTION: Field CQA	PROJECT NO.: MN0832B	PHASE NO.:25
CLIENT: Unisys	LOCATION: Elmira, NY	
CONTRACTOR(S): Recon		
WEATHER: 66-87 F Overcast, Thunderstorm at end of day		

ON-SITE PERSONNEL

NAME	COMPANY	POSITION
Ashwin Ranna	Geosyntec Consultants	Staff engineer
Michael Furlong	Recon	Project Superintendent
Kyle Snyder	Recon	Project Engineer
Rodney Cockerel	Recon	Site Safety Officer
Genea Gramling	Recon	Site Safety officer
John Geary	Recon	Project Manager
Multiple Recon Employees	Recon	

VISITOR'S NAME	COMPANY
Scott Williams	NYSDEC
Timothy A Schneider	NYSDEC
Mike Barber	NYSDEC

EQUIPMENT LIST

DESCRIPTION (QTY)	MODEL NO.	COMMENTS
PID	MiniRAE3000	1
PID (Recon)	MultiRAE	2
Dust monitor (Recon)	Thermoscientific PDR 1500	10
Nuclear Gauge	Troxler 3440	1

MATERIALS DELIVERED

DESCRIPTION	QTY	CONDITIONS / COMMENTS

DESCRIPTION OF WORK

Field Activities

1. AR arrived at site at 0645 and inspected the stockpile area. AR attended the daily site meeting and safety meeting conducted by Recon. Recon reviewed the day's plans including: Excavating TSCA material within 0-2 area off of the parking lot area, Loading TSCA material, and backfilling northern excavation, Shifting overlay material to the stockpile area. The topics discussed in the safety meet included safety around excavation and placing barricades and markings around open excavations.
2. PDRs were installed around the south excavation area and the stockpile area. Surveyor marked out extent of TSCA material within the 0-2 area off the parking lots. Trucks arrived to place material for backfill in north excavation area. Trailer trucks arrived to take TSCA material offsite. AR observed loading of trailer trucks from 0755 to 1410 and signed manifests. A total of 8 truckloads of TSCA material (~176 tons) were shipped today.
3. DEC arrived on site at 1100. Tim reviewed the excavation of TSCA material and identified a location to collect a bottom sample for analysis. Slag and ash material was identified in that location. Tim also requested for details regarding the analysis of the sidewall sample from the northern excavation.
4. Recon labor broke for lunch between 12 and 1230.
5. Tim also requested that we wait till we receive all data for the stockpile before beginning consolidation, and that if possible the stockpiles be consolidated towards the Northern end of the stockpile area, away from the residences.
   DEC inspected the stockpile area and were pleased to see that concrete and construction debris were being stored independently from the excavated material. Tim left site at 1300. Scott and Mike remained on site and inspected the northern backfill.
6. Recon moved overlay material from 1015-1510. Asphalt concrete detritus was moved initially followed by TSCA overlay soil. Material from TSCA overlay was kept separately from other material on site. PDRs were pulled at 1430 on account of incoming storm
7. At 1500 the weekly teleconference was held. Work progress, staffing and work over the weekend was discussed. Recon explained plans to stockpile material in between windrows going forward.
8. 1505 Lightning was seen on site. Site was shut down Poly was placed on stockpiled materials and Recon labor left site.
9. 1530 AR left site.

SAMPLES COLLECTED

PROBLEMS ENCOUNTERED/ DELAYS

Lightning and heavy rain at end of day. Work stopped at 1530.

MODIFICATIONS TO PLANNED SCOPE OF WORK

QA/QC Samples

QA/QC Sample	**Parent Sample**

MISCELLANEOUS ITEMS

Recon plans to load TSCA material (10-14 trucks) tomorrow
Recon will be sending 0-2 excavated material stored within the LOD to the stockpile tomorrow.

OTHER INFORMATION

Time Work Started – Completed: 0645 – 1530 hrs	Prepared By: Ashwin Ranna

SITE PHOTOGRAPHS	
Photograph 1	
Date: 07/20/2017	
Direction: East	
Shifting of Concrete and construction Debris	
Photograph 2	
Date: 07/20/2017	
Direction: East	
Wetting down TSCA truck prior to leaving site.	

SITE PHOTOGRAPHS	
Photograph 3 Date: 07/20/2017 Direction: East Loading of TSCA overlay material to move to stockpile	
Photograph 4 Date: 07/20/2017 Direction: East Stockpiles at end of day.	

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DAILY FIELD REPORT

PROJECT AND SITE INFORMATION

PROJECT: Unisys/Elmira	DATE:7/21/2017	
DESCRIPTION: Field CQA	PROJECT NO.: MN0832B	PHASE NO.:25
CLIENT: Unisys	LOCATION: Elmira, NY	
CONTRACTOR(S): Recon		
WEATHER: 63-90 F Partly Cloudy		

ON-SITE PERSONNEL

NAME	COMPANY	POSITION
Ashwin Ranna	Geosyntec Consultants	Staff engineer
Michael Furlong	Recon	Project Superintendent
Kyle Snyder	Recon	Project Engineer
Rodney Cockerel	Recon	Site Safety Officer
Genea Gramling	Recon	Site Safety officer
John Geary	Recon	Project Manager
Multiple Recon Employees	Recon	

VISITOR'S NAME	COMPANY
Scott Williams	NYSDEC

EQUIPMENT LIST

DESCRIPTION (QTY)	MODEL NO.	COMMENTS
PID	MiniRAE3000	1
PID (Recon)	MultiRAE	2
Dust monitor (Recon)	Thermoscientific PDR 1500	10
Nuclear Gauge	Troxler 3440	1

MATERIALS DELIVERED

DESCRIPTION	QTY	CONDITIONS / COMMENTS

DESCRIPTION OF WORK

Field Activities

1. AR arrived at site at 0645 and inspected the stockpile area. AR attended the daily site meeting and safety meeting conducted by Recon. Recon reviewed the day's plans including: Excavating TSCA material within 0-2 area off of the parking lot area, Loading TSCA material, levelling and final testing of backfill material in northern excavation area. The topics discussed in the safety meet included working around heavy equipment and working near the road.
2. PDRs were installed around the south excavation area and the stockpile area. Trucks arrived to place material for backfill in north excavation area. Trailer trucks arrived to take TSCA material offsite. AR observed loading of trailer trucks from 0755 to 1400 and signed manifests. A total of 10 truckloads of TSCA material (~220 tons) were shipped today.
3. DEC arrived on site at 1100. Scott reviewed the excavation of TSCA material observed the stockpile area. On being queried AR verified that the concrete on top of the TSCA material was being loaded out with the TSCA material. Scott advised that the road near the north excavation should be kept clean (some track out was being observed from the backfill trucks after the rain yesterday) .AR verified that Recon was excavating manually around utilities located within the excavation. Scott gave permission to sample on Sunday without DEC supervision and also gave permission to begin sampling the stockpile before DEC arrived on site on Monday.
4. Recon labor broke for lunch between 12 and 1230.
5. AR carried out compaction and moisture tests on the Northern excavation between 1400 and 1530.
6. Recon surveyor was on site around 1300 he verified the extent of TSCA material in the 0-2 region off the parking lot. Recon moved TSCA material from 0930-1730. TSCA material was stored on Poly on top of 2-4 TSCA material in the parking lot area.
7. JG conveyed that Recon had arranged for additional trucks for TSCA material loadout on Saturday. Recon shut down site, covered stockpiles with poly and left site at 1730.
8. AR left site at 1730.

SAMPLES COLLECTED

PROBLEMS ENCOUNTERED/ DELAYS

MODIFICATIONS TO PLANNED SCOPE OF WORK

QA/QC Samples

QA/QC Sample	**Parent Sample**

MISCELLANEOUS ITEMS

Recon plans to load TSCA material (6 trucks) tomorrow

OTHER INFORMATION

Time Work Started – Completed: 0700 – 1730 hrs	Prepared By: Ashwin Ranna

SITE PHOTOGRAPHS	
Photograph 1	
Date: 07/21/2017	
Direction: East	
Breaking concrete pavement along E-W wall of school	
Photograph 2	
Date: 07/21/2017	
Direction: South	
Completed backfill in northern excavation	

SITE PHOTOGRAPHS	
Photograph 3 Date: 07/21/2017 Direction: East Loading TSCA material for shipping	
Photograph 4 Date: 07/21/2017 Direction: South Excavation of TSCA material along E-w Wall of school building	

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DAILY FIELD REPORT

PROJECT AND SITE INFORMATION

PROJECT: Unisys/Elmira	DATE:7/22/2017	
DESCRIPTION: Field CQA	PROJECT NO.: MN0832B	PHASE NO.:25
CLIENT: Unisys	LOCATION: Elmira, NY	
CONTRACTOR(S): Recon		
WEATHER: 63-85F Overcast, light showers		

ON-SITE PERSONNEL

NAME	COMPANY	POSITION
Ashwin Ranna	Geosyntec Consultants	Staff engineer
Michael Furlong	Recon	Project Superintendent
Kyle Snyder	Recon	Project Engineer
Rodney Cockerel	Recon	Site Safety Officer
Genea Gramling	Recon	Site Safety officer
John Geary	Recon	Project Manager
Multiple Recon Employees	Recon	

VISITOR'S NAME	COMPANY
Scott Williams	NYSDEC

EQUIPMENT LIST

DESCRIPTION (QTY)	MODEL NO.	COMMENTS
PID	MiniRAE3000	1
PID (Recon)	MultiRAE	2
Dust monitor (Recon)	Thermoscientific PDR 1500	10
Nuclear Gauge	Troxler 3440	1

MATERIALS DELIVERED

DESCRIPTION	QTY	CONDITIONS / COMMENTS

DESCRIPTION OF WORK

Field Activities

1. AR arrived at site at 0700 and inspected the stockpile area. AR attended the daily site meeting and safety meeting conducted by Recon. Recon reviewed the day's plans including: Excavating TSCA material within 0-2 area off of the parking lot area, Loading TSCA material, preparing to move non TSCA material to the stockpile area and locating and repairing the 4" pipeline near the school building. The topics discussed in the safety meet included a review of the gather points and working with fire extinguishers.
2. Recon prepared a map of material to be excavated from the south excavation area indicating different types of material based on delineation and corresponding locations in the stockpile area where the material is to be stored. These maps were provided to the haul truck drivers.
3. PDRs were installed around the south excavation area and the stockpile area. Trailer trucks arrived to take TSCA material offsite. AR observed loading of trailer trucks from 0755 to 1310 and signed manifests. A total of 6 truckloads of TSCA material (~132 tons) were shipped today.
4. JG identified some foundry bricks collected during the excavation of the 0-2 TSCA material. AR collected the sample and will be sending it to the lab for asbestos analysis on Monday.
5. Recon began manual excavation to locate the 4" line at 0900. Between 0900 and 1100 Recon excavated to 7' without locating the pipe. In expanding the excavation Recon hit a previously unknown 1" PVC pipeline carrying water. Recon temporarily plugged the pipe and prepared to repair the pipe. AR contacted Paul Brookner and Mike Dunn.
6. DEC arrived on site at 1130. Scott reviewed the excavation areas and observed the repair of the broken pipe. He identified 2 areas within the 0-2 TSCA excavation showing discoloration and requested that samples be collected from those areas. Recon arranged to repair the broken pipe and containerized approximately 200 gallons of water that had collected. Water has been stored in a poly tote on site. Samples have been collected and are currently stored on ice.
7. Recon labor broke for lunch between 1200 and 1230. Manual excavation labor broke for lunch between 1330 and 1400.
8. After water was containerized, Recon attempted to locate the 4" pipe again. Further attempts were paused at 1400 and Mike decided to begin preparation to move Overlay material to the stockpile area. Recon will coordinate with Edger and the school on Monday to identify alternate routes to provide water
9. Recon placed down Poly sheets over the TSCA material and placed Non-TSCA overlay on top to allow movement of trucks in the Southern excavation area. Trucks were wet deconned and wetted down at time of leaving the excavation area and were wet deconned again after leaving the stockpile area. 10 truckloads of material were shifted to the stockpile area.
10. Between 1645 and 1730 Recon shut down site and covered stockpiles of material.
11. AR left site at 1745

SAMPLES COLLECTED

SEBW-1;SE,BW-2

PROBLEMS ENCOUNTERED/ DELAYS

Hit 1" previously unmarked PVC pipe while excavating to locate previously hit unmarked PVC 4" pipe.

MODIFICATIONS TO PLANNED SCOPE OF WORK

We will be discussing methods to provide an alternate water supply to connect the 4" water line.

QA/QC Samples

QA/QC Sample	**Parent Sample**

MISCELLANEOUS ITEMS

OTHER INFORMATION

Time Work Started – Completed: 0700 – 1745 hrs	Prepared By: Ashwin Ranna

SITE PHOTOGRAPHS	
Photograph 1 Date: 07/22/2017 Direction: West Repaired PVC Pipe	
Photograph 2 Date: 07/22/2017 Direction: West Pumping out water to be containerized. ~200 gallons collected.	

SITE PHOTOGRAPHS

Photograph 3 Date: 07/22/2017 Direction: West Placing Poly and overlay material over TSCA excavation to allow movement of trucks	
Photograph 4 Date: 07/22/2017 Direction: East Wet Decon of Off road trucks leaving excavation area	

SITE PHOTOGRAPHS	
Photograph 5	
Date: 07/21/2017	
Direction: East	
Wet Decon of Off road trucks leaving stockpile area	
Photograph 6	
Date: 07/22/2017	
Direction: South	
Stockpiles covered at end of day	

Geosyntec consultants

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DAILY FIELD REPORT

PROJECT AND SITE INFORMATION

PROJECT: Unisys/Elmira	DATE:7/23/2017	
DESCRIPTION: Field CQA	PROJECT NO.: MN0832B	PHASE NO.:25
CLIENT: Unisys	LOCATION: Elmira, NY	
CONTRACTOR(S): Recon		
WEATHER: 67-79F Overcast, light showers		

ON-SITE PERSONNEL

NAME	COMPANY	POSITION
Ashwin Ranna	Geosyntec Consultants	Staff engineer
Michael Furlong	Recon	Project Superintendent
Kyle Snyder	Recon	Project Engineer
Genea Gramling	Recon	Site Safety officer
John Geary	Recon	Project Manager
Multiple Recon Employees	Recon	

VISITOR'S NAME	COMPANY

EQUIPMENT LIST

DESCRIPTION (QTY)	MODEL NO.	COMMENTS
PID	MiniRAE3000	1
PID (Recon)	MultiRAE	2
Dust monitor (Recon)	Thermoscientific PDR 1500	10
Nuclear Gauge	Troxler 3440	1

MATERIALS DELIVERED

DESCRIPTION	QTY	CONDITIONS / COMMENTS

DESCRIPTION OF WORK

Field Activities

1. AR arrived at site at 0700 and attended the daily site meeting and safety meeting conducted by Recon. Recon reviewed the day's plans including: Shifting material from the south excavation area to the stockpile area. The topics discussed in the safety meet included Lifting heavy loads and a review of incidents occurring around the site on previous Sundays.
2. PDRs were installed around the south excavation area and the stockpile area. 41 truckloads of material were shifted from the excavation area to the stockpile area. (~ 300 CUyds of >10 ppm <50 ppm Material and approximately 500 Cu yds of <10 ppm material.) Material was placed in windrows based on PCB delineation (>10 ppm, <50 ppm material was placed in windrow 9; <10 ppm material in between windrows 7 and 8.). Recon shaped the stockpile and placed poly tarps through the day.
3. Recon labor broke for lunch between 1200 and 1230.
4. AR deconned mixing bowls and prepped for soil sampling tomorrow.
5. Light showers were observed on site around 1400. AR carried out an E&SC survey and checked PDRs during rounds. Bottom wall samples at locations indicated by DEC were collected and placed on ice.
6. Recon shut down site at 1530 and completed covering stockpiles.
7. AR left site at 1530.

SAMPLES COLLECTED

SE Bottom wall 1, SE bottom wall 2, SE bottom wall 3

PROBLEMS ENCOUNTERED/ DELAYS

MODIFICATIONS TO PLANNED SCOPE OF WORK

We will be discussing methods on Monday with the school and the capital projects contractor to provide an alternate water supply to connect the 4" water line.

QA/QC Samples

QA/QC Sample	**Parent Sample**

MISCELLANEOUS ITEMS

OTHER INFORMATION

Time Work Started – Completed: 0700 – 1530 hrs	Prepared By: Ashwin Ranna

SITE PHOTOGRAPHS	
Photograph 1	
Date: 07/23/2017	
Direction: East	
Decon of trucks leaving excavation area	
Photograph 2	
Date: 07/23/2017	
Direction: North	
Containerized water collected.	

SITE PHOTOGRAPHS	
Photograph 3 Date: 07/23/2017 Direction: East Excavation and loading of 0-2 material	
Photograph 4 Date: 07/22/2017 Direction: East Stockpiles Tarped at end of day. Material placed between windrows.	

Geosyntec consultants

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DAILY FIELD REPORT

PROJECT AND SITE INFORMATION

PROJECT: Unisys/Elmira	DATE:7/24/2017	
DESCRIPTION: Field CQA	PROJECT NO.: MN0832B	PHASE NO.:25
CLIENT: Unisys	LOCATION: Elmira, NY	
CONTRACTOR(S): Recon		
WEATHER: 61-79F Heavy rain in morning, Multiple thunderstorms		

ON-SITE PERSONNEL

NAME	COMPANY	POSITION
Ashwin Ranna	Geosyntec Consultants	Staff engineer
Ellen Buelow	Geosyntec Consultants	Staff Geologist
Michael Furlong	Recon	Project Superintendent
Kyle Snyder	Recon	Project Engineer
Genea Gramling	Recon	Site Safety officer
John Geary	Recon	Project Manager
Multiple Recon Employees	Recon	

VISITOR'S NAME	COMPANY
Scott Williams	

EQUIPMENT LIST

DESCRIPTION (QTY)	MODEL NO.	COMMENTS
PID	MiniRAE3000	2
PID (Recon)	MultiRAE	2
Dust monitor (Recon)	Thermoscientific PDR 1500	10
Nuclear Gauge	Troxler 3440	1

MATERIALS DELIVERED

DESCRIPTION	QTY	CONDITIONS / COMMENTS

DESCRIPTION OF WORK

Field Activities

1. Geosyntec arrived at site at 0700 and attended the daily site meeting and safety meeting conducted by Recon. Recon reviewed the day's plans including: Shifting material from the south excavation area to the stockpile area and Loading of 7 TSCA trucks. The topics discussed in the safety meet included working in wet conditions, working around heavy equipment, and slips trips and falls.
2. PDRs were not installed on account of heavy rain and predicted rain throughout the day. EB began preparation to sample stockpile material and AR oversaw loading of 1st TSCA truck before site was shutdown on account of lightning at 0810 AM. Work resumed at 0850 and trucks were loaded throughout the day as they arrived.
3. Recon attempted to move soil between the excavation area and the stockpile, however work was stopped on account of heavy rain and only 1 truck of material was moved to the stockpile area. Recon spent the majority of the day reinforcing the barrier roads across the TSCA excavations and preparing for the excavation work tomorrow when the ground was a little drier.
4. Recon labor broke for lunch between 1200 and 1230.
5. Site was shut down for lightning between 1400 and 1430.
6. Scott arrived on site at 1400. He reviewed the stockpile area and took notes on the excavation carried out on Sunday. He asked queries about the material placed down on top of poly within the TSCA excavations to allow haul truck movement within the South excavation area and requested that the material be specifically tracked within the stockpile area.
7. EB completed sampling of the material stockpiled within the stockpile area
8. Short heavy showers occurred on site throughout the day. AR carried out an E&SC survey at end of day. An additional side wall sample was collected along the western edge of the excavated area and a sample of foundry brick was collected to test for asbestos.
9. An Adler tank to store water was delivered to site and installed along the Haul road truck wash. A single load of clean fill was brought to site and was spread to complete levelling within the northern excavation area.
10. Last TSCA truck was filled and left site at 1730. AR and EB packed samples from 1745 to 1830. AR headed to Fedex to ship samples and EB remained behind to shut down the site. Samples were shipped at 1900.

SE sidewall 1, Foundry brick sample;
Windrow 9 Sections 1-4
W9,S1,A72417;W9,S1,B72417;W9,S1,C 72417; W9,S2,A 72417; W9,S2,C72417; W9,S3,A72417; W9,S3,C 72417; W9,S4,A 72417; W9,S4,C 72417;
Windrow **B**etween 7-8,
WB7-8,S1,A 72417; WB7-8,S1,B 72417; WB7-8,S1,C 72417; WB7-8,S2,A 72417; WB7-8,S2,B 72417; WB7-8,S2,C 72417; WB7-8,S3,A 72417; WB7-8,S3,B 72417; WB7-8,S3,C 72417; WB7-8,S4,A 72417; WB7-8,S4,B 72417; WB7-8,S4,C 72417;

PROBLEMS ENCOUNTERED/ DELAYS

Work stopped for around 1 hour on account of lightning. Heavy rain on site prevented moving of haul trucks within site.

MODIFICATIONS TO PLANNED SCOPE OF WORK

QA/QC Samples

QA/QC Sample	**Parent Sample**
DUP14	WB7-8,S4,C 72417
DUP15	W9,S1,A 72417
DUP16	W9,S4,C72417

MISCELLANEOUS ITEMS

OTHER INFORMATION

Time Work Started – Completed: 0700 – 1900 hrs	Prepared By: Ashwin Ranna

SITE PHOTOGRAPHS	
Photograph 1	
Date: 07/24/2017	
Direction: East	
Loading TSCA trucks	
Photograph 2	
Date: 07/24/2017	
Direction: East	
Heavy Rain on site. Water that remains within the excavation tomorrow.will be containerized.	

SITE PHOTOGRAPHS	
Photograph 3	
Date: 07/23/2017	
Direction: East	
Repairs to Haul roads	

Geosyntec consultants

100 Washington Avenue South, Suite 1590
Minneapolis, Minnesota 55401
612.253.8205

DAILY FIELD REPORT

PROJECT AND SITE INFORMATION

PROJECT: Unisys/Elmira	DATE:7/25/2017	
DESCRIPTION: Field CQA	PROJECT NO.: MN0832B	PHASE NO.:25
CLIENT: Unisys	LOCATION: Elmira, NY	
CONTRACTOR(S): Recon		
WEATHER: 55-70FOvercast, Multiple light rain showers through the day		

ON-SITE PERSONNEL

NAME	COMPANY	POSITION
Ashwin Ranna	Geosyntec Consultants	Staff engineer
Ellen Buelow	Geosyntec Consultants	Staff Geologist
Michael Furlong	Recon	Project Superintendent
Kyle Snyder	Recon	Project Engineer
Genea Gramling	Recon	Site Safety officer
Rodney Cockerel	Recon	Site Safety Officer
Multiple Recon Employees	Recon	

VISITOR'S NAME	COMPANY
Scott Williams	NYSDEC
Mike Barber	NYSDEC

EQUIPMENT LIST

DESCRIPTION (QTY)	MODEL NO.	COMMENTS
PID	MiniRAE3000	2
PID (Recon)	MultiRAE	2
Dust monitor (Recon)	Thermoscientific PDR 1500	10
Nuclear Gauge	Troxler 3440	1

MATERIALS DELIVERED

DESCRIPTION	QTY	CONDITIONS / COMMENTS

DESCRIPTION OF WORK

Field Activities

1. Geosyntec arrived at site at 0700 and attended the daily site meeting and safety meeting conducted by Recon. Recon reviewed the day's plans including: Shifting material from the south excavation area to the stockpile area and Loading of 10 TSCA trucks. The topics discussed in the safety meet included working evacuation plans and gather points in times of emergencies.
2. PDRs were installed around the south excavation area and stockpile area. EB began preparation to sample stockpile material and AR oversaw loading of 10 TSCA trucks between 0800and 1500.
3. AR advised Recon to clean out track out caused by Delivery truck for Adler tank in school back parking lot. Recon assigned labor to clean the road.
4. Recon moved 22 truckloads of <10ppm material from the south excavation to the stockpile area. Material was shaped sampled and covered with plastic as it came in. Material was placed in WB7-8 and WB 6-7.
5. NYSDEC arrived on site at 1030 and reviewed stockpile sampling. Scott also reviewed the loading of TSCA material being shipped and asked about the additional samples collected.
6. Recon labor broke for lunch between 1200 and 1230.
7. Work on site was stopped at 1530 when the truck wash on the haul road was observed to be filled up with water. Recon collected the water in the Adler tank and carried out repairs to the Haul road that had developed ruts due to vehicle movement.
8. AR reviewed tomorrow's plans with Mike at 1730. Recon has scheduled 13 TSCA trucks and hopes to complete the TSCA loadout tomorrow. Additional material will be sent to the stockpile.
9. AR and EB packed samples and shipped at 1800. Samples were shipped at 1830.

SAMPLES COLLECTED

WB7-8, S5, A 7252017; WB7-8,S5,B 7252017; WB7-8,S5,C;7252017
WB6-7, S1, A 7252017; WB6-7,S1,B 7252017; WB6-7,S1,C;7252017
WB6-7, S2, A 7252017; WB6-7,S2,B 7252017; WB6-7,S2,C;7252017

PROBLEMS ENCOUNTERED/ DELAYS

MODIFICATIONS TO PLANNED SCOPE OF WORK

QA/QC Samples

QA/QC Sample	**Parent Sample**
DUP-17	WB6-7,S1,B,7252017

MISCELLANEOUS ITEMS

OTHER INFORMATION

Time Work Started – Completed: 0700 – 1830 hrs	Prepared By: Ashwin Ranna

SITE PHOTOGRAPHS	
Photograph 1 Date: 07/25/2017 Direction: West Loading TSCA trucks	
Photograph 2 Date: 07/24/2017 Direction: East Cleanup of Track out in school back parking lot	

SITE PHOTOGRAPHS

Photograph 3 Date: 07/25/2017 Direction: East Excavation of <10 ppm material under mulch beds. Material was shifted to stockpile WB7-8 and WB6-7.	
Photograph 4 Date: 07/25/2017 Direction: North Purging water in Haul road truck wash to Adler Tank	

Geosyntec consultants

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DAILY FIELD REPORT

PROJECT AND SITE INFORMATION

PROJECT: Unisys/Elmira	DATE:7/26/2017	
DESCRIPTION: Field CQA	PROJECT NO.: MN0832B	PHASE NO.:25
CLIENT: Unisys	LOCATION: Elmira, NY	
CONTRACTOR(S): Recon		
WEATHER: 65-76FOvercast		

ON-SITE PERSONNEL

NAME	COMPANY	POSITION
Ashwin Ranna	Geosyntec Consultants	Staff engineer
Ellen Buelow	Geosyntec Consultants	Staff Geologist
Julianne Payne	Geosyntec Consultants	Senior Staff Engineer
Michael Furlong	Recon	Project Superintendent
Kyle Snyder	Recon	Project Engineer
Genea Gramling	Recon	Site Safety officer
Rodney Cockerel	Recon	Site Safety Officer
Multiple Recon Employees	Recon	

VISITOR'S NAME	COMPANY
Scott Williams	NYSDEC

EQUIPMENT LIST

DESCRIPTION (QTY)	MODEL NO.	COMMENTS
PID	MiniRAE3000	2
PID (Recon)	MultiRAE	2
Dust monitor (Recon)	Thermoscientific PDR 1500	10
Nuclear Gauge	Troxler 3440	1

MATERIALS DELIVERED

DESCRIPTION	QTY	CONDITIONS / COMMENTS

DESCRIPTION OF WORK

Field Activities

1. Geosyntec arrived at site at 0700 and attended the daily site meeting and safety meeting conducted by Recon. Recon reviewed the day's plans including: Shifting material from the south excavation area to the stockpile area and Loading of 13 TSCA trucks. The topics discussed in the safety meet included working evacuation plans and gather points in times of emergencies.
2. PDRs were installed around the south excavation area and stockpile area. EB began preparation to sample stockpile material and AR oversaw loading of 13 TSCA trucks between 0730and 1430.
3. EB attended the coordination meeting with the school board from 0800-0900. Recon reiterated that they were pushing to get out of the parking area this week and out of site by August 15th.
4. Recon began loading excavation material and TSCA trucks. Excavation in the mulch area exposed a catch basin with a grate in the western part of the mulch bed that appears to be connected to the storm sewer system
5. NYSDEC arrived on site at 0950. He inspected the stockpile area and expressed concern that the windrows between existing stockpiles were overlapping with material from earlier windrows. Recon was advised to reduce the size of the windrows. Going forward in this manner the amount of material that can still be stored in the stockpile is about 800 Cu. yds.
6. Scott also took notes on the catch basin observed in the mulch area and the materials observed in the base of the TSCA 2-4 excavation.
7. Recon took a break for lunch between 1200 and 1230.JP reached site at 1230.
8. Recon came across several large pieces of concrete blocks during loading the TSCA material. The concrete blocks were broken and will be loaded out tomorrow on what is anticipated to be the last 5 TSCA trucks.
9. Recon loaded 15 trucks of <10 ppm material to the stockpile area. Recon began excavating the area in the parking lot and a new windrow for material >10 ppm was started in windrow between windrows 5-6. AR and JP reviewed the site work and went over responsibilities on site.
10. Recon stopped shipping material and began closing site at 1430. Stockpiles were covered.
11. AR reviewed tomorrow's plans with Mike at 1730. Recon has scheduled 5 TSCA trucks and plans to complete the TSCA loadout tomorrow. Additional material will be sent to the stockpile. AR advised MF to carry out repairs to the haul road as the ruts caused by vehicle movement had damaged the geotextile at some locations.
12. AR and JP left site at 1800.
13. EB packed and shipped samples till 1830. Samples were shipped at 1850.

SAMPLES COLLECTED

WB6-7, S3, A 7262017; WB6-7,S3,B 7262017; WB6-7,S3,C;7262017
WB6-7, S4, A 7262017; WB6-7,S4,B 7262017; WB6-7,S4,C;7262017

PROBLEMS ENCOUNTERED/ DELAYS

MODIFICATIONS TO PLANNED SCOPE OF WORK

QA/QC Samples

QA/QC Sample	**Parent Sample**

MISCELLANEOUS ITEMS

OTHER INFORMATION

Time Work Started – Completed: 0700 – 1800 hrs	Prepared By: Ashwin Ranna

SITE PHOTOGRAPHS	
Photograph 1 Date: 07/26/2017 Direction: East Excavation in parking lot area “Area B” Structure seen is part of storm sewer system and will be connected by EDGER.	
Photograph 2 Date: 07/26/2017 Direction: West Broken concrete ready for loadout with TSCA material	

SITE PHOTOGRAPHS

Photograph 3 Date: 07/26/2017 Direction: Southt Decon of Haul Road trucks.	
Photograph 4 Date: 07/26/2017 Direction: East Skinnier windrows to reduce overlap. Recon covering stockpiles with poly.	

Geosyntec consultants

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612.253.8205

DAILY FIELD REPORT

PROJECT AND SITE INFORMATION

PROJECT: Unisys/Elmira	DATE:7/27/2017	
DESCRIPTION: Field CQA	PROJECT NO.: MN0832B	PHASE NO.:25
CLIENT: Unisys	LOCATION: Elmira, NY	
CONTRACTOR(S): Recon		
WEATHER: 65-75FOvercast		

ON-SITE PERSONNEL

NAME	COMPANY	POSITION
Ashwin Ranna	Geosyntec Consultants	Staff Engineer
Ellen Buelow	Geosyntec Consultants	Staff Geologist
Julianne Payne	Geosyntec Consultants	Senior Staff Engineer
Michael Furlong	Recon	Project Superintendent
Kyle Snyder	Recon	Project Engineer
Genea Gramling	Recon	Site Safety Officer
Rodney Cockerel	Recon	Site Safety Officer
Multiple Recon Employees	Recon	

VISITOR'S NAME	COMPANY
Scott Williams	NYSDEC
Seth Lovell	HUNT

EQUIPMENT LIST

DESCRIPTION (QTY)	MODEL NO.	COMMENTS
PID	MiniRAE3000	2
PID (Recon)	MultiRAE	2
Dust monitor (Recon)	Thermoscientific PDR 1500	10
Nuclear Gauge	Troxler 3440	1

MATERIALS DELIVERED

DESCRIPTION	QTY	CONDITIONS / COMMENTS

DESCRIPTION OF WORK

Field Activities

1. Geosyntec arrived at site at 0700 and attended the daily site meeting and safety meeting conducted by Recon. Recon reviewed the day's plans including: loading of up to 5 TSCA trucks (remaining TSCA material in Area A), shifting remaining material from the south excavation area to the stockpile area, and beginning to backfill Area A 2-4 feet below ground surface (ft BGS) with soil approved for reuse. The topics discussed in the safety meet included reiterating that food/drink cannot be consumed in the excavation area, and that smoking can only take place offsite.
2. PDRs were installed around the south excavation area and stockpile area.
3. At 0730, HUNT representative Seth Lovell (SL) came onsite to survey excavation extent. SL confirmed the Area A stakes demarcating the corners of excavation in Area A (2-4 ft BGS), and the 0-2 ft BGS excavation boundaries in Area B.
4. Julianne Payne (JP) oversaw loading of 4 TSCA trucks between 0815 and 1400. 5 TSCA trucks were ordered, however only 4 trucks were needed to haul the remaining TSCA material in Area A (westernmost part of Area A). Broken concrete pieces (removed from the excavation on 7/26/17) were loaded into the TSCA trucks along with the decon liner from the TSCA loading area.
5. NYSDEC arrived on site at 1100. He inspected the stockpile area and expressed concern about keeping track of reuse material (windrow and section) and where it is placed in Area A in the 2-4 ft BGS interval. Scott also asked about plan for today, approach for Part B excavation, and any PID hits in the excavation area.
6. Recon took a break for lunch between 1200 and 1230. Ashwin Ranna (AR) left site at approximately 1200.
7. Recon began deploying construction fence followed by a 30-mil geotextile layer at 4 ft BGS and up the excavation walls in Area A of south excavation at 1300. Reuse material (<10 ppm PCBs) from sections I through IV of windrow 1 was used to backfill Area A. Reuse material was dumped in southwestern corner of Area A and spread to the west using a bulldozer. Once the western area was compacted with a vibrating roller, reuse material was spread to the east. Ellen Buelow (EB) documented the sections of windrow 1, truck number, and times of departure for trucks transporting reuse material for backfill. JP documented the excavation area and lift where reuse material was dumped, as well as truck number and time of arrival. A total of 22 trucks dumped reuse material as backfill. Reuse material from sections I, II, and III of windrow 1 were placed in the western portion of the first lift (3-4 ft BGS) and reuse material from sections III and IV of windrow 1 were placed in the eastern portion of the first lift (3-4 ft BGS). Backfill continued from 1445 to 1730. The western approximately 2/3 of the first lift has been backfilled and compacted, however, the easternmost portion of the first lift has not be completed.
8. At 1500, EB collected a geotechnical sample ("Reuse Fill 1") from windrow 1 composited from sections I through IV to be analyzed by: sieve analysis, hydrometer, and standard proctor. Caleb Kyper (Geotechnics) indicated that he will rush analysis, as this sample will be used as proctor for compaction tests in 2-4 ft BGS layer of Area A. Aron Krasnopoler (AK) and Tom Ramsey (TR) indicated that the proctor from imported fill will be used for tomorrow's compaction testing and updated once reuse material standard proctor results are received.
9. Recon began loading excavation material remaining from 0-4 ft BGS in northern portion of Area A (<10 ppm) using 14 trucks. This material was staged in windrow 3-4. Excavation occurred between 1530 and 1730, and was completed for Area A.
10. Recon spray painted the location of the catch basin to be installed by EDGER tomorrow in the northeastern portion of Area A.
11. JP reviewed tomorrow's plans with Mike at 1730. Recon will continue to backfill Area A with reuse material at 2-4 ft BGS. Five compaction tests will be performed for each lift. Excavation of Area B will begin tomorrow, starting at the northern edge and working southward. Once sections I through IV of windrow 1 have been backfilled, AK requested that sections IV and V of windrow 5 be used for backfill, as the analytical results are similar.
12. EB and JP left site at 1800. EB and JP shipped geotechnical sample priority overnight at 1850.

SAMPLES COLLECTED

Reuse Fill 1 (Geotechnical Sample)

PROBLEMS ENCOUNTERED/ DELAYS

MODIFICATIONS TO PLANNED SCOPE OF WORK

QA/QC Samples

QA/QC Sample	Parent Sample

MISCELLANEOUS ITEMS	
OTHER INFORMATION	
Time Work Started – Completed: 0700 – 1800 hrs	Prepared By: Julianne Payne

SITE PHOTOGRAPHS	
Photograph 1	
Date: 07/27/2017	
Direction: West	
Loading of final TSCA truck for 2-4 ft BGS layer of Area A.	
Photograph 2	
Date: 07/27/2017	
Direction: East	
Deployment of construction fence followed by 30-mil geotextile at 4 ft BGS in Area A.	

SITE PHOTOGRAPHS

Photograph 3 Date: 07/27/2017 Direction: East Bulldozer spreading reuse material (<10 ppm) as backfill in western portion of Area A.	
Photograph 4 Date: 07/27/2017 Direction: Southwest Vibrating roller compacting western side of first lift in Area A	

Geosyntec consultants

100 Washington Avenue South, Suite 1590
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DAILY FIELD REPORT

PROJECT AND SITE INFORMATION

PROJECT: Unisys/Elmira	DATE:7/28/2017	
DESCRIPTION: Field CQA	PROJECT NO.: MN0832B	PHASE NO.:25
CLIENT: Unisys	LOCATION: Elmira, NY	
CONTRACTOR(S): Recon		
WEATHER: 65-75F Overcast		

ON-SITE PERSONNEL

NAME	COMPANY	POSITION
Julianne Payne	Geosyntec Consultants	Senior Staff Engineer
Ellen Buelow	Geosyntec Consultants	Staff Geologist
Michael Furlong	Recon	Project Superintendent
Kyle Snyder	Recon	Project Engineer
Genea Gramling	Recon	Site Safety Officer
Rodney Cockerel	Recon	Site Safety Officer
Multiple Recon Employees	Recon	

VISITOR'S NAME	COMPANY
Scott Williams	NYSDEC

EQUIPMENT LIST

DESCRIPTION (QTY)	MODEL NO.	COMMENTS
PID	MiniRAE3000	2
PID (Recon)	MultiRAE	2
Dust monitor (Recon)	Thermoscientific PDR 1500	10
Nuclear Gauge	Troxler 3440	1

MATERIALS DELIVERED

DESCRIPTION	QTY	CONDITIONS / COMMENTS

DESCRIPTION OF WORK

Field Activities

1. Geosyntec arrived at site at 0700 and attended the daily site meeting and safety meeting conducted by Recon. Recon reviewed the day's plans including: continue backfilling Area A and start excavating Area B. Sections IV and V of windrow 5 will be used for remaining reuse material, per direction by Aron Krasnopoler (AK). The topics discussed in the safety meet included avoiding complacency and being aware of the zone of control.
2. PDRs were installed around the south excavation area and stockpile area.
3. At 0730, Recon removed remaining material in Area A south of fiber optic line 0-4 feet below ground surface (ft BGS). Approximately 4-5 buckets of material (>10 ppm) were shifted to the stockpile in windrow 4-5.
4. 0900-1030, 5 trucks of reuse material (<10 ppm) from sections IV and V of windrow 5 were backfilled/compacted in the eastern portion of Area A in 2-4 ft BGS layer.
5. At 1000 Recon begins excavating <10 ppm material in southern portion of Area B at 0-2 ft BGS, material is stored in windrow 1B. Note: windrow 1B is in the same location as windrow 1, however, this is the newly placed material (as sections I through IV of windrow 1 have already been removed for reuse material). A layer of orange construction fence followed by 30-mil geotextile is place at 2 ft BGS in Area B. At 1430 Recon begins excavating <10 ppm material from the northern portion of Area B at 0-2 ft BGS, material is stored in windrow 1B. A total of 10 trucks of material from 0-2 ft BGS in Area B are staged in windrow 1B
6. At 1100, a layer of orange construction fence followed by 30-mil geotextile is place at 2 ft BGS in Area A and up the side walls at approximately. Imported fill is brought in by EDGER and backfilled in 0-2 ft BGS layer in Area A, approximately 35 trucks in total. By 1730, the western portion of Area A is backfilled, the eastern portion of Area A has been backfilled to lift 3 (1-2 ft BGS), and the utility area along the eastern portion of Area A is left excavated to 4 ft BGS (EDGER will perform utilities work in this area tomorrow).
7. Julianne Payne (JP) performed compaction testing at lifts 1 (3-4 ft, reuse material), 2 (2-3 ft, reuse material), 3 (1-2 ft, imported fill), and 4 (0-1 ft, imported fill) of Area A. After first test in lift one, Kyle runs vibrating roller along material at 1000. In lifts 1 and 2, compaction ranges from 92.0-96.0% (when using backfill 3 as proctor). JP calls Tom Ramsey, who talks to Mike Furlong (Recon). Mike mentions the rain this morning and lack of proctor data for reuse material. Once reuse material proctor results (Reuse Fill 1) are received, compaction will need to be recalculated. The geotechnical sample was received by Geotechnics this morning and has been requested with a rush turnaround time. Compaction results for lifts 3 and 4 in area A had compaction greater than 95%. Five tests were performed at lifts 1 and 2, and two tests were performed at lifts 3 and 4 in Area A. Additionally, one test was performed at lift 1 in Area B (1-2 ft, contains imported fill). Compaction testing was performed between 0900 and 1500.
8. NYSDEC arrived on site at 11:30. He inspected the Area A excavation, and asked about backfill material for layers and liner locations. Scott then walked JP to tennis court area to see soil staining uncovered by EDGER/Sterling at approximate 6 ft BGS near tennis court excavation, slightly west of the stadium. Note that Geosyntec's excavation in this area only extended to 2 ft BGS. Scott indicated that Tim may want analytical testing performed, the consultant performing the testing has not been determined. He then walked over to the stockpile area, and asked Ellen Buelow (EB) where reuse material came from and where excavated material from Area B was being placed.
9. 1215-1615 EB collects soil samples from sections I, II, and II of windrow 3-4, which contains <10 ppm material.
10. 1300-1330 Geosyntec and Recon break for lunch.
11. At 1600, JP surveys erosion and sediment controls, and reminds Mike to address ruts in the haul road southeast of Area B that continues towards decon area. There are deep ruts that have cut through the geotextile and soil can be seen between patches of gravel. Mike indicates that he has ordered a truck of gravel and will spread it on the road tomorrow. JP also indicates that there's a catch basin northeast of Area B that hasn't been covered. Mike says he will wrap geotextile around it tomorrow morning.
12. JP reviews tomorrow's plans with Mike at 1730. Recon will continue to backfill Area A with imported fill and EDGER will install the new catch basin and piping in the eastern portion of Area A. Recon may continue to excavate Area B (depending on staffing availability) but the focus will remain on backfilling Area A.
13. EB and JP left site at 1800. EB shipped samples at 1830.

SAMPLES COLLECTED

WB3-4, S1, A 7282017; WB3-4, S1, B 7282017; WB3-4, S1, C 7282017;
WB3-4, S2, A 7282017; WB3-4, S2, B 7282017; WB3-4, S2, C 7282017;
WB3-4, S3, A 7282017; WB3-4, S3, B 7282017; WB3-4, S3, C 7282017.

PROBLEMS ENCOUNTERED/ DELAYS

MODIFICATIONS TO PLANNED SCOPE OF WORK	
QA/QC Samples	
QA/QC Sample	**Parent Sample**
Dupe 18	WB3-4, S1, C 7282017
Dupe 19	WB3-4, S3, B 7282017
Trip Blank #1	N/A
MISCELLANEOUS ITEMS	
OTHER INFORMATION	
Time Work Started – Completed: 0700 – 1800 hrs	Prepared By: Julianne Payne

SITE PHOTOGRAPHS	
Photograph 1	
Date: 07/28/2017	
Direction: South	
Deployment of construction fence and 30-mil geotextile at 2 ft BGS in southern portion of Area B.	
Photograph 2	
Date: 07/28/2017	
Direction: South	
Unloading of imported fill material in Area A.	

SITE PHOTOGRAPHS	
Photograph 3 Date: 07/28/2017 Direction: South Bulldozer spreading imported fill material as backfill in western portion of Area A.	
Photograph 4 Date: 07/28/2017 Direction: South Vibrating roller compacting western side of fourth lift in Area A	

Geosyntec consultants

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DAILY FIELD REPORT

PROJECT AND SITE INFORMATION

PROJECT: Unisys/Elmira	DATE:7/29/2017	
DESCRIPTION: Field CQA	PROJECT NO.: MN0832B	PHASE NO.:25
CLIENT: Unisys	LOCATION: Elmira, NY	
CONTRACTOR(S): Recon		
WEATHER: 65-75F Sunny		

ON-SITE PERSONNEL

NAME	COMPANY	POSITION
Julianne Payne	Geosyntec Consultants	Senior Staff Engineer
Ellen Buelow	Geosyntec Consultants	Staff Geologist
Michael Furlong	Recon	Project Superintendent
Kyle Snyder	Recon	Project Engineer
Genea Gramling	Recon	Site Safety Officer
Rodney Cockerel	Recon	Site Safety Officer
Multiple Recon Employees	Recon	

VISITOR'S NAME	COMPANY
Scott Williams	NYSDEC

EQUIPMENT LIST

DESCRIPTION (QTY)	MODEL NO.	COMMENTS
PID	MiniRAE3000	2
PID (Recon)	MultiRAE	2
Dust monitor (Recon)	Thermoscientific PDR 1500	10
Nuclear Gauge	Troxler 3440	1

MATERIALS DELIVERED

DESCRIPTION	QTY	CONDITIONS / COMMENTS

DESCRIPTION OF WORK

Field Activities

1. Geosyntec arrived at site at 0700 and attended the daily site meeting and safety meeting conducted by Recon. Recon reviewed the day's plans including: finish backfilling/compacting Area A, continue excavating Area B (northern side), and storing imported fill material in Area B (southern side). The topics discussed in the safety meet included power tool safety and the importance of inspecting tools after dropped (especially before passing off to another employee).
2. PDRs installed around the south excavation area and stockpile area.
3. At 0730, EDGER trucks begin hauling imported fill to the southwestern corner of Area B. The material is spread/compacted in the eastern portion of Area A and the southern portion of Area B. The utility area in the eastern portion of Area A is backfilled and compacted. In this area, the construction fence and 30-mil geotextile were deployed at 4 feet below ground surface (ft BGS) and backfilled with imported fill (no reuse material) due to utility work associated with capital improvements project. EDGER is scheduled to install the catch basin and tie in on Monday. A total of 42 trucks transported imported fill to the Site between 0730 and 1430.
4. 0800, Recon continues excavation along western extent of Area B. Recon places 30-mil geotextile over the catch basin in the northeastern corner of the Site, and the grate is placed on top of the liner. 0845-1130, Recon switches over to excavate the northeastern corner of Area B. This material is from 0-2 ft BGS and <10ppm. A total of 11 trucks transported this material to windrow 1-B in the stockpile area. Recon excavated to within 1 ft of the memorial statue located in the northeastern portion of Area B. Mike (Recon) indicated that they'd previously dug around the base of this memorial statue and found that the foundation is approximately 2-3 ft BGS. The remaining portion will be hand cleared next week (using a shovel).
5. 1230-1310, Geosyntec and Recon break for lunch.
6. 1400 NYDEC arrived on site. Scott inspected the completed Area A excavation and northeastern portion of Area B. He indicated that Area A "looked good" and was appreciative that we were able to complete the backfill/compaction on schedule to hand this portion to EDGER for their capital improvement project needs (scheduled to begin on Monday). Scott also mentioned that the haul road looked to be in good shape, due to the mud mats Mike (Recon) applied for structural support.
7. 1430, Mike (Recon) rolls excavator that was previously in contact with TSCA material across poly liner, when mobilizing the excavator out of Area A. Rodney takes down PDR's.
8. 1500, Recon moves construction fence eastward, bisecting Area A, to hand off area to EDGER for upcoming capital improvements work.
9. EB and JP left site at 1530.

SAMPLES COLLECTED

None.

PROBLEMS ENCOUNTERED/ DELAYS

MODIFICATIONS TO PLANNED SCOPE OF WORK

QA/QC Samples

QA/QC Sample	**Parent Sample**
None.	None.

MISCELLANEOUS ITEMS

OTHER INFORMATION

Time Work Started – Completed: 0700 – 1530 hrs	Prepared By: Julianne Payne

SITE PHOTOGRAPHS	
Photograph 1 Date: 07/29/2017 Direction: Downwards Placement of 30-mil geotextile over catch basin in the northeastern corner of Area B prior to excavation in this area.	
Photograph 2 Date: 07/29/2017 Direction: North Recon checking/confirming excavation depth in northeastern corner of Area B.	

SITE PHOTOGRAPHS	
Photograph 3 Date: 07/29/2017 Direction: Southwest Completed Area A excavation.	
Photograph 4 Date: 07/29/2017 Direction: West Mobilization of excavator (which was previously in contact with TSCA material) across poly liner while crossing Area A.	

Geosyntec consultants

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DAILY FIELD REPORT

PROJECT AND SITE INFORMATION

PROJECT: Unisys/Elmira	DATE:7/31/2017	
DESCRIPTION: Field CQA	PROJECT NO.: MN0832B	PHASE NO.:25
CLIENT: Unisys	LOCATION: Elmira, NY	
CONTRACTOR(S): Recon		
WEATHER: 65-85F Sunny		

ON-SITE PERSONNEL

NAME	COMPANY	POSITION
Julianne Payne	Geosyntec Consultants	Senior Staff Engineer
Ellen Buelow	Geosyntec Consultants	Staff Geologist
Michael Furlong	Recon	Project Superintendent
Kyle Snyder	Recon	Project Engineer
Genea Gramling	Recon	Site Safety Officer
Rodney Cockerel	Recon	Site Safety Officer
Multiple Recon Employees	Recon	

VISITOR'S NAME	COMPANY
Scott Williams	NYSDEC
Mike (Field Temp)	NYSDEC

EQUIPMENT LIST

DESCRIPTION (QTY)	MODEL NO.	COMMENTS
PID	MiniRAE3000	2
PID (Recon)	MultiRAE	2
Dust monitor (Recon)	Thermoscientific PDR 1500	10
Nuclear Gauge	Troxler 3440	1

MATERIALS DELIVERED

DESCRIPTION	QTY	CONDITIONS / COMMENTS

DESCRIPTION OF WORK

Field Activities

1. Geosyntec arrived at site at 0700 and attended the daily site meeting and safety meeting conducted by Recon. Recon reviewed the day's plans including: excavating Area B (northern side). The topics discussed in the safety meet included working alone, stop work authority, and keeping safety as a core value.
2. PDRs installed around the south excavation area and stockpile area.
3. At 0730, Recon continues excavation of Area B along the northern side. <10 ppm material is excavated from the northeastern corner until 1030 using 12 trucks. >10 ppm material is excavated from the northernmost polygon until 1324 using 7 trucks. <10 ppm material is excavated from the east-west small rectangle (between the two >10 ppm polygons) until 1450 using 7 trucks. >10 ppm material is excavated from the second northernmost polygon until 1655 using 11 truck. This second polygon (>10 ppm material) was not completed, but we will resume here tomorrow. A total of 19 trucks transported material <10 ppm to windrows 1-B and 2-3, and 18 trucks transported material >10 ppm to windrow 4-5.
4. 0845, NYSDEC on site. Scott (with Mike) ask about process, happy with the excavation. He indicated we might receive info on soil sampling near the tennis courts from EDGER now that Tim is back in the office, but wasn't sure; EDGER has left this stained portion of the excavation open and continued with other projects. Scott indicated that EDGER has been happy with the transition (ie passing western portion of Area A to them for their capital improvement project needs). Scott (with Mike) left site at 1115.
5. 0930, a concrete electrical vault is discovered. This was not picked up by GPR previously. It is approximately 3' x 3'. Recon hand clears (with a shovel) around the concrete vault, which sticks up approximately 4" above the base of the excavation. Recon replaces the concrete lid and continues excavating around it.
6. 1215-1245, Geosyntec and Recon break for lunch.
7. 1500, Kyle backfills haul road with imported gravel. Prioritizes placing gravel in the areas in contact with the truck tires.
8. 1730, Recon puts poly sheeting over excavated >10ppm material from second northernmost polygon in Area B (which did not get placed into trucks yet).
9. 1815, JP recaps day with AK. Indicated that windrow 1-2 is still open for backfill, and portions of windrows 2-3 and 5 (<10 ppm) and windrows 4-5 and 5-6 (>10 ppm) still remain open for backfill.
10. EB and JP left site at 1800.
11. EB ships samples at 1830.

SAMPLES COLLECTED

W1-b, S1, A 7312017; W1-b, S1, B 7312017; W1-b, S1, C 7312017;
W1-b, S2, A 7312017; W1-b, S2, B 7312017; W1-b, S2, C 7312017;
W1-b, S3, A 7312017; W1-b, S3, B 7312017; W1-b, S3, C 7312017;
W1-b, S4, A 7312017; W1-b, S4, B 7312017; W1-b, S4, C 7312017;
WB4-5, S1, A 7312017; WB4-5, S1, C 7312017;
WB4-5, S2, A 7312017; WB4-5, S2, C 7312017;
Trip Blank #1.

PROBLEMS ENCOUNTERED/ DELAYS

MODIFICATIONS TO PLANNED SCOPE OF WORK

QA/QC Samples

QA/QC Sample	**Parent Sample**
Dup 20	W1-b, S4, A 7312017
Dup 21	WB4-5, S1, A 7312017

MISCELLANEOUS ITEMS

OTHER INFORMATION

Time Work Started – Completed: 0700 – 1830 hrs	Prepared By: Julianne Payne

SITE PHOTOGRAPHS	
Photograph 1	
Date: 07/31/2017	
Direction: Downwards	
Electrical vault discovered in northeastern corner of Area B, hand cleared by Recon. Box is approximately 20 feet southeast of monument.	
Photograph 2	
Date: 07/31/2017	
Direction: East	
Monument was left with an approximately 1-2 feet buffer of soil for structural support. This material will be removed during the next phase of the excavation (when the monument is removed).	

SITE PHOTOGRAPHS

Photograph 3 Date: 07/31/2017 Direction: South Southern portion of Area B excavated 0-2 feet BGS.	
Photograph 4 Date: 07/31/2017 Direction: South Repairs to the haul road with imported gravel.	

Geosyntec consultants

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DAILY FIELD REPORT

PROJECT AND SITE INFORMATION

PROJECT: Unisys/Elmira	DATE:8/01/2017	
DESCRIPTION: Field CQA	PROJECT NO.: MN0832B	PHASE NO.:25
CLIENT: Unisys	LOCATION: Elmira, NY	
CONTRACTOR(S): Recon		
WEATHER: 65-85F Sunny		

ON-SITE PERSONNEL

NAME	COMPANY	POSITION
Julianne Payne	Geosyntec Consultants	Senior Staff Engineer
Ellen Buelow	Geosyntec Consultants	Staff Geologist
Michael Furlong	Recon	Project Superintendent
Kyle Snyder	Recon	Project Engineer
Genea Gramling	Recon	Site Safety Officer
Rodney Cockerel	Recon	Site Safety Officer
Multiple Recon Employees	Recon	

VISITOR'S NAME	COMPANY
Scott Williams	NYSDEC
Mike Barber (Field Temp)	NYSDEC
Seth Lovell	HUNT

EQUIPMENT LIST

DESCRIPTION (QTY)	MODEL NO.	COMMENTS
PID	MiniRAE3000	2
PID (Recon)	MultiRAE	2
Dust monitor (Recon)	Thermoscientific PDR 1500	10
Nuclear Gauge	Troxler 3440	1

MATERIALS DELIVERED

DESCRIPTION	QTY	CONDITIONS / COMMENTS

DESCRIPTION OF WORK

Field Activities

1. Geosyntec arrived at site at 0700 and attended the daily site meeting and safety meeting conducted by Recon. Recon reviewed the day's plans including: excavating Area B (northern side) moving south from 0-2 ft. The topics discussed in the safety meeting included no smoking on site, reminder that the trailer is the muster point, and 30/30 rule for lightning and thunder.
2. PDRs installed around the south excavation area and stockpile area.
3. At 0730, Recon continues excavation of Area B along the northern side. >10 ppm material is excavated from the second northernmost polygon until 1052 using 16 trucks. One truck of concrete debris, not in a TSCA area/discovered during Ashwin's time on site, is staged with other debris in the stockpile area at 0845. <10ppm material is excavated just south of the second northernmost polygon until 1526 using 18 trucks. Some staining in the floor of the excavation was observed in the western portion of this area, see below discussion with NYSDEC. >10 ppm material is excavated from the central polygon until 1631 using 6 trucks. This central polygon (>10 ppm material) was not completed, but we will resume here tomorrow. A total of 22 trucks transported material >10 ppm to windrows 4-5, 9, 5-6, and 8, and 18 trucks transported material <10 ppm to windrow 2-3.
4. 0900, Recon maps out remaining polygon corners with a tape wheel and spray paint (HUNT will confirm locations later today).
5. 0930, NYSDEC on site. Scott (with Mike) head to stockpile area to talk to Ellen about which windrows are currently being filled. Asked Ellen if he could get copies of her field sketches of the windrows, but she indicated she would have to run that by AK first. Scott arrives at excavation area at approximately 1145. Discusses the staining in the floor of the excavation. The two areas are both approximately 10'x20' and located in the <10 ppm area between the second northernmost polygon and central polygon along the western extent of the excavation. Scott takes pictures and sketches the areas on a map. There are no PID detections, although soil does appear stained and there's a faint petroleum-like odor. Mike and JP remind Scott that this area will be excavated in a future phase of the project. No staining is observed in the sidewalls in this area. NYSDEC offsite at 1310.
6. 0955 to 1655, EB collects samples from windrows 4-5, 9, 5-6, and 2-3.
7. 1000, EDGER alerts Recon that they need access to the western extent of Area B so that they can install their curb. Mike and JP talk, and determine that lining/backfill/compaction of this area will happen tomorrow (8/2/17), concurrently with the excavation in Area B. Recon will use EDGER's truck wash station and bring in the fill through EDGER's side of the site (parking lot).
8. 1400, JP and EB discuss remaining windrow space. Windrow 1-2 is the only open windrow for >10 ppm material. Mike said he could get creative by adding in another windrow running north-south (perpendicular to the other windrows) on the east side of the stockpile (if needed).
9. 1430, JP recalculates the compaction results from 7/28/17 for lifts 1 and 2, which used reuse material, using the new proctor results for sample "Reuse Fill 1". All ten results now exceed 100% compaction and moisture content is also within passing range.
10. 1610, Recon uncovers another concrete electrical vault, approximately 2' x 3' that is in the center portion of Area B, approximately 30 feet west of the end of the straight part of the track. Recon uses voltage meter and the wires are live. Replaced the lid of the electrical vault and hand cleared around it.
11. 1630, Seth Lovell (HUNT) on site to confirm Area B excavation limits. Seth also shot the center point of the two stained areas (described above) along the western side of Area B, per AK's request. Offsite at 1710.
12. EB and JP left site at 1800.
13. EB ships samples (to lab) and PID case (to Field Environmental) at 1830.

SAMPLES COLLECTED

WB4-5, S3, A 08012017; WB4-5, S3, C 08012017;
WB4-5, S4, A 08012017; WB4-5, S4, C 08012017;
W9, S5, A 08012017; W9, S5, C 08012017;
WB5-6, S2, A 08012017; WB5-6, S2, C 08012017;
WB5-6, S3, A 08012017; WB5-6, S3, C 08012017;
WB2-3, S1, A 08012017; WB2-3, S1, B 08012017; WB2-3, S1, C 08012017;
WB2-3, S2, A 08012017; WB2-3, S2, B 08012017; WB2-3, S2, C 08012017;
Trip Blank #1.

PROBLEMS ENCOUNTERED/ DELAYS

MODIFICATIONS TO PLANNED SCOPE OF WORK	
QA/QC Samples	
QA/QC Sample	**Parent Sample**
	None.
MISCELLANEOUS ITEMS	
OTHER INFORMATION	
Time Work Started – Completed: 0700 – 1830 hrs	Prepared By: Julianne Payne

SITE PHOTOGRAPHS

Photograph 1 Date: 08/01/2017 Direction: West Recon marking out polygon extent using spray paint and tape wheel.	
Photograph 2 Date: 08/01/2017 Direction: South View of Area B. Note two stained areas (referenced above) in the western portion of Area B (right side of picture).	

SITE PHOTOGRAPHS

Photograph 3 Date: 08/01/2017 Direction: Downgradient Close up of northern stained area in western portion of Area B.	
Photograph 4 Date: 08/01/2017 Direction: East Recon hand clearing around a newly discovered electrical vault. This vault is approximately 30 feet west of the end of the straight part of the track (visible in the background of the photo).	

Geosyntec consultants

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DAILY FIELD REPORT

PROJECT AND SITE INFORMATION

PROJECT: Unisys/Elmira	DATE:8/02/2017	
DESCRIPTION: Field CQA	PROJECT NO.: MN0832B	PHASE NO.:25
CLIENT: Unisys	LOCATION: Elmira, NY	
CONTRACTOR(S): Recon		
WEATHER: 65-85F Sunny		

ON-SITE PERSONNEL

NAME	COMPANY	POSITION
Julianne Payne	Geosyntec Consultants	Senior Staff Engineer
Ellen Buelow	Geosyntec Consultants	Staff Geologist
Michael Furlong	Recon	Project Superintendent
Kyle Snyder	Recon	Project Engineer
Genea Gramling	Recon	Site Safety Officer
Rodney Cockerel	Recon	Site Safety Officer
Multiple Recon Employees	Recon	

VISITOR'S NAME	COMPANY
Scott Williams	NYSDEC

EQUIPMENT LIST

DESCRIPTION (QTY)	MODEL NO.	COMMENTS
PID	MiniRAE3000	2
PID (Recon)	MultiRAE	2
Dust monitor (Recon)	Thermoscientific PDR 1500	10
Nuclear Gauge	Troxler 3440	1

MATERIALS DELIVERED

DESCRIPTION	QTY	CONDITIONS / COMMENTS

DESCRIPTION OF WORK

Field Activities

1. Geosyntec arrived at site at 0700 and attended the daily site meeting and safety meeting conducted by Recon. Recon reviewed the day's plans including: excavating Area B (central portion) moving east from 0-2 ft. Additionally, HUNT (surveyor) shot a few areas late yesterday that weren't 2 feet deep, so we'll excavate approximately 4 inches deeper in the western portion of Area B. The topics discussed in the safety meeting included daily equipment inspections to avoid injury to employees, suggested taking pictures of the equipment when it arrives on site and check for damage, and not to stand in front of the front tires when decontaminating trucks (difficult for truck driver to see you).
2. PDRs installed around the south excavation area and stockpile area.
3. At 0730, JP and EB discuss EDGER sidewall sample with AK. We have been authorized to collect one sidewall sample. Decision is to wait until NYSDEC is on site, and have them direct us on sampling plan.
4. Recon continues excavation of Area B in the central portion. >10 ppm material is excavated from the northeastern polygon until 1637 using 37 trucks. This material is staged in windrows 8 and b1-2. One truck of <10 ppm material is excavated from western side of Area B after bulldozer scrapes off the approximately 4 inches needed to extend the depth to 2 feet at 1440. This material is staged in windrow 2-3.
5. 0830, Recon uncovers a buried catch basin. There was a geotextile layer followed by approximately 1 foot of mulch on top of the catch basin when it was uncovered. Recon opened the catch basin, placed a layer of 30-mil geotextile over it, and placed the grate on top to keep soil from the excavation from entering the catch basin.
6. 1030, NYSDEC on site. Scott and JP walk to the EDGER trench in the tennis courts next to the stadium. JP indicates that we have been authorized to collect one sample, and would like direction from NYSDEC on exactly where to collect the sample and which analyses to run. Scott describes a tentative plan (as follows) but indicates he would like to consult with Tim first. Scott identifies three areas he would like composite sample from three areas (see photograph below): area 1 is a dark stained area of the south end of the trench at approximately 2 ft BGS (note, our excavation didn't extend this far south), area 2 is a stained area at 4 ft BGS that is further north (note, our excavation didn't extend this far south), and area 3 is a stained area at 2 ft BGS just below our demarcation layer. Additionally, Scott envisions a terracore sample being collected from area 2. He said he will run this idea by Tim and confirm with JP tomorrow while on site; he would like to observe collection of this sample. JP also discussed the southern electrical vault uncovered yesterday as well as the catch basin uncovered today. Scott requested that we fill in the bend of the haul road with gravel. JP said she'd speak to Mike about this, as there is extra gravel on the sides that could be raked into the ruts. JP told Scott that the two stained areas in the western portion of Area B were surveyed (center points) yesterday by HUNT. Scott inspects stockpile area and leaves site at 1200.
7. 1150, AK and JP discuss the catch basin that was uncovered this morning. There was some soil/mulch visible inside, however, it was wrapped with geotextile (see above) once uncovered to avoid soil from this excavation entering the catch basin. AK would like this surveyed tomorrow when HUNT is on site.
8. 1200-1230, Recon, JP, and EB break for lunch.
9. 1600, JP and EB discuss PB's request for boring sample 2-6 inches BGS. JP confirms with Recon that HUNT will be able to map us to the boring location, as they'll be onsite tomorrow morning. JP will also request that HUNT shoot the two electrical vaults and catch basins that were recently uncovered, per AK's request.
10. 1035 to 1620, EB collects samples from windrows 8, 1-2, and 2-3.
11. EB and JP left site at 1800.
12. EB ships samples (to lab) and PID case (to Field Environmental) at 1830.

SAMPLES COLLECTED

W8, S5, A 08022017; W8, S5, C 08022017;
W8, S6, A 08022017; W8, S6, C 08022017;
WB1-2, S1, A 08022017; WB1-2, S1, C 08022017;
WB1-2, S2, A 08022017; WB1-2, S2, C 08022017;
WB2-3, S3, A 08022017; WB2-3, S3, B 08022017; WB2-3, S3, C 08022017;
Trip Blank #1.

PROBLEMS ENCOUNTERED/ DELAYS

MODIFICATIONS TO PLANNED SCOPE OF WORK

QA/QC Samples	
QA/QC Sample	**Parent Sample**
Dup 22	WB1-2, S1, C 08022017
Dup 23	WB1-2, S2, A 08022017
Dup 24	WB2-3, S3, B 08022017
MISCELLANEOUS ITEMS	
OTHER INFORMATION	
Time Work Started – Completed: 0700 – 1830 hrs	Prepared By: Julianne Payne

SITE PHOTOGRAPHS	
Photograph 1	
Date: 08/02/2017	
Direction: East	
Recon hand clearing catch basin uncovered slightly southwest of the corner of the school building in Area B.	
Photograph 2	
Date: 08/02/2017	
Direction: West	
View of areas Scott suggested for sampling of EDGER sidewall. Areas 1-3 (described above, shown left to right) are visible in this photo.	

SITE PHOTOGRAPHS

Photograph 3 Date: 08/02/2017 Direction: South Recon using bulldozer to remove approximately 4 inches of material from western extent of Area B (<10 ppm material) to extend depth to 2 feet BGS.	
Photograph 4 Date: 08/02/2017 Direction: South Northern portion of Area B (previously excavated) showing where material was excavated in the central portion of Area B (in the background of photograph) today.	

Geosyntec consultants

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DAILY FIELD REPORT

PROJECT AND SITE INFORMATION

PROJECT: Unisys/Elmira	DATE:8/03/2017	
DESCRIPTION: Field CQA	PROJECT NO.: MN0832B	PHASE NO.:25
CLIENT: Unisys	LOCATION: Elmira, NY	
CONTRACTOR(S): Recon		
WEATHER: 65-85F Sunny		

ON-SITE PERSONNEL

NAME	COMPANY	POSITION
Julianne Payne	Geosyntec Consultants	Senior Staff Engineer
Ellen Buelow	Geosyntec Consultants	Staff Geologist
Michael Furlong	Recon	Project Superintendent
Kyle Snyder	Recon	Project Engineer
Genea Gramling	Recon	Site Safety Officer
Rodney Cockerel	Recon	Site Safety Officer
Multiple Recon Employees	Recon	

VISITOR'S NAME	COMPANY
Scott Williams	NYSDEC
Tim Schneider	NYSDEC
Seth Lovell	HUNT

EQUIPMENT LIST

DESCRIPTION (QTY)	MODEL NO.	COMMENTS
PID	MiniRAE3000	2
PID (Recon)	MultiRAE	2
Dust monitor (Recon)	Thermoscientific PDR 1500	10
Nuclear Gauge	Troxler 3440	1

MATERIALS DELIVERED

DESCRIPTION	QTY	CONDITIONS / COMMENTS

DESCRIPTION OF WORK

Field Activities

1. Geosyntec arrived at site at 0700 and attended the daily site meeting and safety meeting conducted by Recon. Recon reviewed the day's plans including: excavating Area B built up road material (>10 ppm) and small section of <10 ppm material slightly east of the easternmost TSCA area. We will backfill northwestern portion of Area B (so that EDGER can install their curb) and bring trucks through EDGER's site/use EDGER's truck wash. The topics discussed in the safety meeting included stored energy, the importance of carefully walking around equipment, and letting the operator know when you want to approach so that they can lower the excavator bucket.
2. PDRs installed around the south excavation area and stockpile area.
3. At 0740, Recon begins rolling out orange demarcation layer (construction fence) and then 30-mil geotextile in northwestern corner of Area B, alone area where EDGER plans to construct the curb. A total of 29 trucks of imported fill were trucked to this area between 0752 and 1715, spreading the backfill southeastwards. Truck tires were decontaminated at EDGER's truck wash prior to exiting the Site.
4. 0830-0900, conversations between Test America (Dave Dunlap), AK, and PB to determine analyses to run for B169 sample. 0900, HUNT (Seth Lovell) located B169 boring location using coordinates provided by PB. Geosyntec obtains sample (B169-B) from 2 to 6 inches, and steps north approximately 6 inches to obtain more material at the same depth. Sample will be analyzed for PCBs on a 1-day TAT, and based on those results, three additional 4-oz jars of soil have been sent to the lab on hold for TCLP analysis of VOCs, SVOCs, and metals. On the chain of custody, Geosyntec wrote in that Test America should consult with Geosyntec once PCB results are received to determine whether or not held soil will need to be analyzed. Boring was backfilled with remaining soil from 2 – 6 inches and top soil plug was returned for both holes.
5. 0900, Recon continues excavation slightly north of the school building to remove material used to build up the road. >10 ppm material is excavated from this area until 1310 using 8 trucks. Material is stored in windrow 1-2, a perpendicular section has been added to this windrow, making it look like a "T". <10 ppm material at the easternmost edge of the Area B excavation is excavated until 1545 using 7 trucks. Material is stored in section 5b of windrow 5. The Area B excavation is complete at 1545.
6. 1100, Tim and Scott (NYDEC) on site. Tim asked about staining observed during the excavation. JP explained that there were no PID hits, faint odor only in western stained areas, but that most of the staining has corresponded to the >10 ppm areas. Tim also asked if the football field sample (B169) had been collected yet. We indicated that it had been collected this morning with a 1-day TAT for PCBs, and told him the stake was still there marking the sample location. Tim asked Mike if the top foot of the excavation looked fairly uniform, as if it might be fill. Mike indicated that this appeared to be the case, and that this was a fairly consistent observation. Lastly, Tim asked that during 4-inch water pipe repair (which was damaged during drilling approximately nine months ago, Tim wants this referred to as "emergency repair") that a mini excavator be used and the delineation drawings from 0 to 6 feet be reviewed, and each 2 foot layer be treated accordingly.
7. 1200-1230, Recon, JP, and EB break for lunch.
8. 1415, JP performs compaction testing of lift 1 (1-2 ft BGS) of Area B, in the northwestern portion of the site (where EDGER's curb will be placed). Both tests passed (103.5% and 104.2% compaction, moisture was also within range).
9. 1440, JP, EB, AK, and NYDEC (Tim and Scott) discuss sampling approach. Tim wants one sample collected from material within an east-west running pipe adjacent to EDGER's northernmost catch basin. The pipe is approximately 4 feet BGS and 6 inches in diameter. Geosyntec probes the pipe with a tape measure, it is greater than 25 feet and seemingly empty. There is some material within the first four inches of the pipe, but the soil was not stained and is likely just fill material that was pushed into the pipe during EDGER's excavation. Note that some flakes from the pipe were collected in the sample, as the pipe was deteriorating. Geosyntec collects sample "NE EDGER Trench Pipe" for analysis of PCBs and metals. The pipe was located next to a series of limestone blocks approximately 29" from the bottom of the trench and approximately 4 feet long. Tim also requested that a sidewall composite sample be collected from three locations in the western wall of the trench (see 8/2/17 DFR for location description/photograph) in stained areas approximately 2.5 ft BGS. Sample was collected and called "EDGER sidewall" and will be analyzed for PCBs, SVOCs, and metals. The soil sample was black and dry. Scott observed collection of both samples, as Tim had to left the site at approximately 1455. Both samples were placed on a separate chain and will be analyzed with a standard TAT, per AK's request.
10. EB and JP left site at 1800.
11. EB ships samples at 1830.

SAMPLES COLLECTED

EQB 1; B169-B; EDGER Sidewall; NE EDGER Trench Pipe.

PROBLEMS ENCOUNTERED/ DELAYS	
MODIFICATIONS TO PLANNED SCOPE OF WORK	
QA/QC Samples	
QA/QC Sample	**Parent Sample**
-	-
MISCELLANEOUS ITEMS	
OTHER INFORMATION	
Time Work Started – Completed: 0700 – 1830 hrs	Prepared By: Julianne Payne

SITE PHOTOGRAPHS	
Photograph 1	
Date: 08/03/2017	
Direction: West	
Recon deploying demarcation layer (construction fence) followed by 30-mil geotextile in northwestern portion of Area B.	
Photograph 2	
Date: 08/03/2017	
Direction: West	
Recon decontaminating trucks hauling imported fill in EDGER's truck wash prior to exiting the site.	

SITE PHOTOGRAPHS

Photograph 3 Date: 08/03/2017 Direction: Downwards View of composite sample: "EDGER Sidewall".	
Photograph 4 Date: 08/03/2017 Direction: South View of backfilling of Area B from above. The northwestern corner of the site has been lined and backfilled with imported fill, and the backfill is continuing towards to the southeast.	

Geosyntec consultants

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DAILY FIELD REPORT

PROJECT AND SITE INFORMATION

PROJECT: Unisys/Elmira	DATE:8/04/2017	
DESCRIPTION: Field CQA	PROJECT NO.: MN0832B	PHASE NO.:25
CLIENT: Unisys	LOCATION: Elmira, NY	
CONTRACTOR(S): Recon		
WEATHER: 62-86F Sunny		

ON-SITE PERSONNEL

NAME	COMPANY	POSITION
Julianne Payne	Geosyntec Consultants	Senior Staff Engineer
Ellen Buelow	Geosyntec Consultants	Staff Geologist
Ashwin Ranna	Geosyntec Consultants	Staff Engineer
Michael Furlong	Recon	Project Superintendent
Kyle Snyder	Recon	Project Engineer
Genea Gramling	Recon	Site Safety Officer
Multiple Recon Employees	Recon	

VISITOR'S NAME	COMPANY
Scott Williams	NYSDEC
Mike Dunn	EHS
Dom Insogna	EHS
Seth Lovell	HUNT (Surveyor for Recon)

EQUIPMENT LIST

DESCRIPTION (QTY)	MODEL NO.	COMMENTS
PID	MiniRAE3000	2
PID (Recon)	MultiRAE	2
Dust monitor (Recon)	Thermoscientific PDR 1500	10
Nuclear Gauge	Troxler 3440	1

MATERIALS DELIVERED

DESCRIPTION	QTY	CONDITIONS / COMMENTS

DESCRIPTION OF WORK

Field Activities

1. Geosyntec arrived at site at 0700 and attended the daily site meeting and safety meeting conducted by Recon. Recon reviewed the day's plans including: Backfilling and compacting along the western section of area A, Repairing the 4" pipe in southern excavation area and deconning excavators and haul trucks. The topics discussed in the safety meeting included gather points and stop work authority.
2. PDRs installed around the south excavation area and stockpile area. Recon requested that Geosyntec collect additional fill samples for the next 1000 cu yds of material to be brought to site.
3. JP walked the site with AR and EB began sampling and collecting equipment blanks. Trucks arrived for backfill material.
4. 0815 DI and MD visit site, inspected the uncovered concrete structures and identified them as electrical vaults. MD indicated that the drawings in EHS possession indicated that the valve well was exposed on site near where the 4" line was hit was associated with the 4" line and could be used to identify the location of the pipe. He also mentioned that a pencil addition to the drawing indicated that the 1" PVC line encountered during the previous attempt to repair the 4" line was used to substitute the copper irrigation line in that area. MD wanted to know when power would be restored to the athletic field stands. AR reconfirmed that the handover date from Recon to Edger was the 15th. Recon begins decon of Haul trucks and excavators.
5. Seth carries out a survey along the western edge of area A to identify the level of backfill. Additional ~4-6 inches of material to be placed and compacted. JP left site at ~0900.
6. Recon located the 4" pipe at 1045, Pipe was approximately 6' below original ground surface. Recon began chasing the pipe to locate the break. EKB completed sampling and began packing samples to ship.
7. 1130 DEC arrived on site. Scott inspected the stockpile area and met AR at the Southern excavation. He looked at the excavation for the pipe repair and reviewed the planned emergency repair process. Scott asked about the concrete material excavated at the northern excavation and queried what was the plan to dispose of the same. He mentioned that Tim was concerned that Edger was placing uncharacterized material on top of the clean backfill in the Tennis court area. Edger began placing a geotextile and collecting additional samples from the stockpiled material
8. Scott left site at 1245. EB left site at 1245.
9. AR left site to pick up backfill samples from quarry. Recon took a break for lunch from 1200- 1230.
10. AR returned to site at 1400. Recon continued backfilling and spreading material in southern excavation. Total of 36 truckloads of backfill material brought to site. Pipe repair continued and was completed at 1630. Recon placed one excavator bucket load of clean fill immediately around the pipe. Recon then backfilled the excavated material on top of the excavation after placing a plastic demarcation layer. Pipe will be tested on Monday as Recon was not capable of restarting the water supply. MF wanted to avoid leaving an open excavation over the weekend on account of predicted heavy thunderstorms.
11. Recon stopped working at 1715. AR packed samples and refreshed ice. Heavy winds caused Edger's privacy fence near laydown area to blow over as AR left site.
12. Samples were shipped at 1845.

SAMPLES COLLECTED

BP-5000-6000 grab and composite samples for backfill material.
Windrow 5-b Section 5 sample set (<10ppm)
Windrow 1-2 Section 3 and section 4 sets (>10 ppm)
Equipment blanks 1,2

PROBLEMS ENCOUNTERED/ DELAYS

MODIFICATIONS TO PLANNED SCOPE OF WORK

QA/QC Samples

QA/QC Sample	Parent Sample
-	-

MISCELLANEOUS ITEMS

Another 1" PVC pipe was encountered adjacent to the 4" PVC line. No markings on the pipe to indicate what is running through it.

OTHER INFORMATION	
Time Work Started – Completed: 0700 – 1845 hrs	Prepared By: Ashwin Ranna

SITE PHOTOGRAPHS	
Photograph 1 Date: 08/04/2017 Direction: West Excavating to locate 4” pipe. Mini excavator was used and material removed was returned to the excavation as part of the emergency repair.	
Photograph 2 Date: 08/04/2017 Direction: South Recon deconning Haul trucks.	

SITE PHOTOGRAPHS	
Photograph 3 Date: 08/04/2017 Direction: East Backfilling and spreading material along northern and western section of Area A. 36 truckloads of material brought to site. Western edge (Sidewalk section) ~95% complete. ~ 40% of total backfill first layer completed	
Photograph 4 Date: 08/04/2017 Direction: Down Repaired PVC pipe. Note unknown 1” pipe adjacent.	

Geosyntec consultants

100 Washington Avenue South, Suite 1590
Minneapolis, Minnesota 55401
612.253.8205

DAILY FIELD REPORT

PROJECT AND SITE INFORMATION

PROJECT: Unisys/Elmira	DATE:8/05/2017	
DESCRIPTION: Field CQA	PROJECT NO.: MN0832B	PHASE NO.:25
CLIENT: Unisys	LOCATION: Elmira, NY	
CONTRACTOR(S): Recon		
WEATHER: 52-74F Sunny		

ON-SITE PERSONNEL

NAME	COMPANY	POSITION
Ashwin Ranna	Geosyntec Consultants	Staff Engineer
Michael Furlong	Recon	Project Superintendent
Kyle Snyder	Recon	Project Engineer
Genea Gramling	Recon	Site Safety Officer
Multiple Recon Employees	Recon	

VISITOR'S NAME	COMPANY

EQUIPMENT LIST

DESCRIPTION (QTY)	MODEL NO.	COMMENTS
PID	MiniRAE3000	2
PID (Recon)	MultiRAE	2
Dust monitor (Recon)	Thermoscientific PDR 1500	10
Nuclear Gauge	Troxler 3440	1

MATERIALS DELIVERED

DESCRIPTION	QTY	CONDITIONS / COMMENTS

DESCRIPTION OF WORK

Field Activities

1. Geosyntec arrived at site at 0700 and attended the daily site meeting and safety meeting conducted by Recon. Recon reviewed the day's plans including: Backfilling and compacting along the western section of area A. Edger let Recon know that they could not allow access from the western side of site on account of heavy rain. Recon decided to fix the haul road and compact with backfill to allow access via the Eastern haul road for backfill material.
2. PDRs were placed along the southern excavation area.
3. AR carried out compaction tests along the last lift of the western side of area A. Edger began excavating for placing the sidewalk along the western edge of area A. Some amount of black color is seen in the soil along that area. See photo below.
4. Between 800 and 1300 Recon repaired the haul road and compacted to make to accessible to the quarry trucks.
5. Recon placed demarcating layer and geotextile along the east west running wall of the school building and created a path allowing the backfill trucks to enter and turn around on site coming in through the haul road.
6. Recon broke for lunch from 1215-1245.
7. AR carried out an E&S inspection on site and inspected PDRs. No unusual readings were observed.
8. A total of 25 trucks of material was brought to site. Recon stopped work at 1545. Site was shut down and closed by 1600.

SAMPLES COLLECTED

PROBLEMS ENCOUNTERED/ DELAYS

Access from the western access road was stopped by Edger to allow sidewalk construction and on account of heavy rain on site.

MODIFICATIONS TO PLANNED SCOPE OF WORK

QA/QC Samples

QA/QC Sample	**Parent Sample**
-	-

MISCELLANEOUS ITEMS

Tent was damaged in thunderstorm will need to be replaced.

OTHER INFORMATION

Time Work Started – Completed: 0700 – 1600 hrs	Prepared By: Ashwin Ranna

SITE PHOTOGRAPHS

Photograph 1 Date: 08/05/2017 Direction: North Blackish color along western edge of area A where sidewalk is to be constructed. This area was outside the backfilled area (Demarcating layer and geotextile edgecan be seen in photo.)	
Photograph 2 Date: 08/05/2017 Direction:East Access road for backfill trucks geotextile and demarcating layer spread prior to laying down material	

SITE PHOTOGRAPHS

Photograph 3 Date: 08/05/2017 Direction: South Spreading material and compacting access road.	
Photograph 4 Date: 08/05/2017 Direction: South Stone replaced and levelled at entrance to Haul road.	

Geosyntec consultants

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DAILY FIELD REPORT

PROJECT AND SITE INFORMATION

PROJECT: Unisys/Elmira	DATE:8/07/2017	
DESCRIPTION: Field CQA	PROJECT NO.: MN0832B	PHASE NO.:25
CLIENT: Unisys	LOCATION: Elmira, NY	
CONTRACTOR(S): Recon		
WEATHER: 59-71F Partly cloudy		

ON-SITE PERSONNEL

NAME	COMPANY	POSITION
Ashwin Ranna	Geosyntec Consultants	Staff Engineer
Michael Furlong	Recon	Project Superintendent
Kyle Snyder	Recon	Project Engineer
John Geary	Recon	Project Manager
Multiple Recon Employees	Recon	

VISITOR'S NAME	COMPANY
Scott Williams	NYSDEC

EQUIPMENT LIST

DESCRIPTION (QTY)	MODEL NO.	COMMENTS
PID	MiniRAE3000	2
PID (Recon)	MultiRAE	2
Dust monitor (Recon)	Thermoscientific PDR 1500	10
Nuclear Gauge	Troxler 3440	1

MATERIALS DELIVERED

DESCRIPTION	QTY	CONDITIONS / COMMENTS

DESCRIPTION OF WORK

Field Activities

1. Geosyntec arrived at site at 0700 and attended the daily site meeting and safety meeting conducted by Recon. Recon reviewed the day's plans including: Backfilling and compacting the southern excavation area, Moving mulch to the stockpile area. Cleanup of site and preparation to loadout material from stockpile area.
2. On account of predicted rain throughout the day PDRs were not installed.
3. Recon began backfilling material for Southern excavation area. Geosyntec took down the damaged tent and disposed of it. AR advised Recon to recover the stockpiles as the poly had been blown around by the wind.
4. Between 0800 and 0900 AR carried out compaction tests along the 0-1 backfilled area.. EB deconned sampling bowls and oversaw backfilling.
5. Between 0900 and 1300 Recon shifted mulch to the stockpile area. Backfilling began at 0830 and continued till 1730. Recon broke for lunch at 1200 -1230.
6. NYSDEC was on site at 1145 and stayed till 1300. He reviewed the backfilling of material on site and asked queries about the planned football field work. He observed Recon beginning to recover the stockpile area and left site at 1300.
7. AR called Mike Dunn at 1300 and left a message that the 4" pipe was repaired and water needed to be turned on to test the repair. On calling back at 1400,MD said that he would be able to turn on the water in the morning tomorrow. AR contacted Edger and confirmed that turning on the water would not affect their activities.
8. Recon sprayed water along the haul road and at the entrance of the haul road as a dust suppressant measure.
9. A total of 37 truckloads of backfill material were brought to site. EB left site at 1700. AR left site at 1730.

SAMPLES COLLECTED

PROBLEMS ENCOUNTERED/ DELAYS

MODIFICATIONS TO PLANNED SCOPE OF WORK

QA/QC Samples

QA/QC Sample	**Parent Sample**
-	-

MISCELLANEOUS ITEMS

OTHER INFORMATION

Time Work Started – Completed: 0700 – 1730 hrs	Prepared By: Ashwin Ranna

SITE PHOTOGRAPHS	
Photograph 1	
Date: 08/07/2017	
Direction: West	
Shifting mulch from southern excavation area to stockpile area.	
Photograph 2	
Date: 08/07/2017	
Direction: East	
Recovering plastic tarp on top of stockpiles	

SITE PHOTOGRAPHS	
Photograph 3 Date: 08/05/2017 Direction: South Backfilling on site. Approximately 75% of 1-2' BGS material backfilled and compacted	
Photograph 4 Date: 08/07/2017 Direction: West Covered stockpiles at end of day.	

Geosyntec consultants

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DAILY FIELD REPORT

PROJECT AND SITE INFORMATION

PROJECT: Unisys/Elmira	DATE:8/08/2017	
DESCRIPTION: Field CQA	PROJECT NO.: MN0832B	PHASE NO.:25
CLIENT: Unisys	LOCATION: Elmira, NY	
CONTRACTOR(S): Recon		
WEATHER: 59-71F Partly cloudy		

ON-SITE PERSONNEL

NAME	COMPANY	POSITION
Ashwin Ranna	Geosyntec Consultants	Staff Engineer
Ellen Buelow	Geosyntec Consultants	Staff Geologist
Michael Furlong	Recon	Project Superintendent
Kyle Snyder	Recon	Project Engineer
Rodney Cockerel	Recon	Site safety officer
Multiple Recon Employees	Recon	

VISITOR'S NAME	COMPANY
Scott Williams	NYSDEC

EQUIPMENT LIST

DESCRIPTION (QTY)	MODEL NO.	COMMENTS
PID	MiniRAE3000	2
PID (Recon)	MultiRAE	2
Dust monitor (Recon)	Thermoscientific PDR 1500	10
Nuclear Gauge	Troxler 3440	1

MATERIALS DELIVERED

DESCRIPTION	QTY	CONDITIONS / COMMENTS

DESCRIPTION OF WORK

Field Activities

1. Geosyntec arrived at site at 0700 and attended the daily site meeting and safety meeting conducted by Recon. Recon reviewed the day's plans including: Backfilling and compacting the southern excavation area, organizing the timbers removed from around the mulch area, and deconning and shifting an excavator to the stockpile area. The safety meeting reviewed human habits like complacency overconfidence inexperience and drowsiness,
2. PDR's were installed along the southern excavation edges.
3. Recon moved the excavator and crane mats from the previously dismantled truck wash to the stockpile area.
4. AR called Mike Dunn of EHS and confirmed that the 4" line had been reactivated. and no problems had been observed in operation.
5. Scott was on site at 1130. He inspected the site and observed the stockpile area. He requested that the privacy fence be repaired at some locations and observed the backfilling at the southern excavation area. He observed the tree trucks from the south excavation area had been shifted to the stockpile area and said he was pleased with the poly being reinstalled on the stockpiles. DEC then headed over to talk to Stirling about material being stored on the northern excavation area.
6. Recon carried out backfilling and compacting from 0730 to 1730. 26 trucks of backfill material were unloaded on site. Recon broke for lunch from 1200-1230.
7. Scott inspected the stockpile area and verified that the silt sock was ensuring that no material was leaving the stockpile area along the perimeter of the stockpile. Scott left site at 1500.
8. At 1500 the biweekly progress meeting was held.
9. AR carried out an E&S inspection on site.
10. 1530 water was sprayed to control dust, backfilling and compaction continued. Samples were collected for geotechnical analysis. EB talked to MF and confirmed that Recon was still planning to ship material from the stockpile on Thursday. Recon also confirmed that they would be able to complete backfill of the structural fill by tomorrow and start backfilling topsoil by Thursday.
11. PDRs were taken down at 1600. Recon began shutting down site.
12. EB left site at 1645. Recon stopped backfilling and closed site at 1730. AR left site.

SAMPLES COLLECTED

Sample for Structural fill sieve and Hydrometer analysis.

PROBLEMS ENCOUNTERED/ DELAYS

MODIFICATIONS TO PLANNED SCOPE OF WORK

QA/QC Samples

QA/QC Sample	**Parent Sample**
-	-

MISCELLANEOUS ITEMS

OTHER INFORMATION

Time Work Started – Completed: 0700 – 1730 hrs	Prepared By: Ashwin Ranna

SITE PHOTOGRAPHS	
Photograph 1	
Date: 08/08/2017	
Direction: East	
Moving crane mats from old truck wash to stockpile area.	
Photograph 2	
Date: 08/08/2017	
Direction: East	
Placing geotextile and demarcating layer prior to backfilling	

SITE PHOTOGRAPHS	
Photograph 3 Date: 08/08/2017 Direction: East Spraying water to reduce dust movement	
Photograph 4 Date: 08/08/2017 Direction: South 100% 1-2’ BGS soil placed, ~40% 0-1 BGS soil placed. (final levelling and placement of topsoil still to be done for 0-1’ BGS lift)	

Geosyntec consultants

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DAILY FIELD REPORT

PROJECT AND SITE INFORMATION

PROJECT: Unisys/Elmira	DATE:8/09/2017	
DESCRIPTION: Field CQA	PROJECT NO.: MN0832B	PHASE NO.:25
CLIENT: Unisys	LOCATION: Elmira, NY	
CONTRACTOR(S): Recon		
WEATHER: 56-83F Partly cloudy		

ON-SITE PERSONNEL

NAME	COMPANY	POSITION
Ashwin Ranna	Geosyntec Consultants	Staff Engineer
Ellen Buelow	Geosyntec Consultants	Staff Geologist
Michael Furlong	Recon	Project Superintendent
Kyle Snyder	Recon	Project Engineer
Rodney Cockerel	Recon	Site safety officer
Multiple Recon Employees	Recon	

VISITOR'S NAME	COMPANY

EQUIPMENT LIST

DESCRIPTION (QTY)	MODEL NO.	COMMENTS
PID	MiniRAE3000	2
PID (Recon)	MultiRAE	2
Dust monitor (Recon)	Thermoscientific PDR 1500	10
Nuclear Gauge	Troxler 3440	1

MATERIALS DELIVERED

DESCRIPTION	QTY	CONDITIONS / COMMENTS

DESCRIPTION OF WORK

Field Activities

1. Geosyntec arrived at site at 0700 and attended the daily site meeting and safety meeting conducted by Recon. Recon reviewed the day's plans including: Completing backfilling and compacting the southern excavation area. The safety meeting reviewed working around heavy equipment and working on a site with multiple contractors
2. PDR's were installed along the southern excavation perimeter.
3. Geosyntec inspected the site and reviewed movement of materials on site.
4. Between 0800 and 0830 Recon attended the site coordination meeting. Geosyntec collected samples for field moisture content tests and structural fill analysis.
5. AR contacted Mike Dunn and asked about school plan for the catch basins in the mulch area. MD confirmed that it was okay to cover the 3 catch basins found under the mulch beds if they were located below grade.
6. Between 0715 and 1600 Recon received 39 trucks of backfill on site. Recon has completed spreading the backfill along the southern excavation however final grading and levelling is to be done. The surveyor is expected to be on site early in the morning tomorrow.
7. From 1600 -1645 4 trucks of topsoil material were brought to site.
8. AR contacted Stirling and confirmed details on material being stored on top of tennis court backfill. Material was being stored on liner and under poly, but was currently uncharacterized. Material is to be sampled for reuse and currently consists of scrapings generated during grading of the parking lot. No visibly impacted material is currently being stored on the tennis court area.
9. EB left site from 1235-1435.
10. AR carried out an E&S inspection on site.
11. Recon sprayed water multiple times on site to prevent dust movement.
12. PDRs were taken down at 1600. No unusual readings were observed. Recon shut down site for the day at 1730.
13. Geosyntec left site at 1740. Structural fill samples were shipped at 1815.

SAMPLES COLLECTED

S.Fill 4 08072017; S.Fill 5 08082017; S.Fill 6 08092017

PROBLEMS ENCOUNTERED/ DELAYS

MODIFICATIONS TO PLANNED SCOPE OF WORK

QA/QC Samples

QA/QC Sample	**Parent Sample**
-	-

MISCELLANEOUS ITEMS

Recon plans to begin moving >10 ppm material from the stockpile area to the landfill tomorrow.
MF informed me that they do not currently anticipate working on Saturday or Sunday this weekend.
MF intends to estimate the quantity of material being removed from the parking lot sometime tomorrow.

OTHER INFORMATION

Time Work Started – Completed: 0700 – 1815 hrs	Prepared By: Ashwin Ranna

SITE PHOTOGRAPHS	
Photograph 1	
Date: 08/09/2017	
Direction: East	
Cleanup of trackout at end of haul road.	
Photograph 2	
Date: 08/09/2017	
Direction: East	
Topsoil brought to site. Spreading and placement of topsoil will only begin after final compaction and survey of structural fill	

SITE PHOTOGRAPHS

Photograph 3 Date: 08/09/2017 Direction: East Completion of spreading structural fill along excavation. Final compaction and grading to be carried out	
Photograph 4 Date: 08/09/2017 Direction: South Stockpiled material placed on tennis court.	

Geosyntec consultants

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DAILY FIELD REPORT

PROJECT AND SITE INFORMATION

PROJECT: Unisys/Elmira	DATE:8/10/2017	
DESCRIPTION: Field CQA	PROJECT NO.: MN0832B	PHASE NO.:25
CLIENT: Unisys	LOCATION: Elmira, NY	
CONTRACTOR(S): Recon		
WEATHER: 56-84F Sunny		

ON-SITE PERSONNEL

NAME	COMPANY	POSITION
Ashwin Ranna	Geosyntec Consultants	Staff Engineer
Ellen Buelow	Geosyntec Consultants	Staff Geologist
Michael Furlong	Recon	Project Superintendent
Kyle Snyder	Recon	Project Engineer
Rodney Cockerel	Recon	Site safety officer
Multiple Recon Employees	Recon	

VISITOR'S NAME	COMPANY
Scott Williams	NYSDEC
Mike Barber	NYSDEC

EQUIPMENT LIST

DESCRIPTION (QTY)	MODEL NO.	COMMENTS
PID	MiniRAE3000	2
PID (Recon)	MultiRAE	2
Dust monitor (Recon)	Thermoscientific PDR 1500	10
Nuclear Gauge	Troxler 3440	1

MATERIALS DELIVERED

DESCRIPTION	QTY	CONDITIONS / COMMENTS

DESCRIPTION OF WORK

Field Activities

1. Geosyntec arrived at site at 0700 and attended the daily site meeting and safety meeting conducted by Recon. Recon reviewed the day's plans including: Surveying and compacting structural fill, spreading and compacting topsoil. The safety meeting reviewed dangers of distracted driving.
2. PDR's were installed along the stockpile area perimeter. Recon began to prepare to load out> 10 ppm material. Between 0800 and 0930 Recon loaded out 5 trucks of material (~ 150 cu yds) from Windrow 9 section 2-4.
3. Recon surveyed the structural fill in the southern excavation area and compacted cut and graded as necessary. Topsoil was spread graded and compacted on top of levelled structural fill. Between 0730 and 1700 23 trucks of topsoil were brought to site.
4. Between 0930 and 1030 Geosyntec reviewed Edgers stockpiled material on site. Geosyntec calculated estimated quantities of materials and identified different stockpiled material on site. Stirling confirmed that samples taken within the stockpile A (on the tennis court) had been invalidated as additional material had been added to the stockpile and that additional sampling would be done to characterize that material.
5. Recon moved the construction debris within the stockpile area into section 1 of the windrow (Asphalt cuttings) in order to open the southern privacy fence of the stockpile area and allow trucks to enter the stockpile without backing up.
6. NYSDEC was on site at 1100 and reviewed the loadout of material. Scott asked about the moved material and was concerned that construction debris material was mixed into characterized material. Mike said that it was not possible to move the material out at present on account of lack of space within the stockpile. EB confirmed that the material was all construction debris and Recon and DEC agreed that it was possible and acceptable to segregate the larger concrete from where they had been placed.
7. Recon confirmed that the trucks were delayed at the landfill and would not return till tomorrow. Stockpiles were re-covered, the privacy fence reinstalled and PDRs were taken down from the stockpile area.
8. Backfilling and spreading of topsoil continued till 1700 .
9. Recon requested that Geosyntec arrange for sampling of Truck wash water for disposal.
10. .EB left site at 1530 to return equipment and repair a puncture in the rental car. Equipment was shipped at 1730. Site was closed and AR left site at 1730.

SAMPLES COLLECTED

PROBLEMS ENCOUNTERED/ DELAYS

MODIFICATIONS TO PLANNED SCOPE OF WORK

QA/QC Samples

QA/QC Sample	**Parent Sample**
-	-

MISCELLANEOUS ITEMS

Recon plans to continue moving >10 ppm material from the stockpile area to the landfill
Work is expected to start at 0600 AM to try to get 2 rounds of trucks in one day.

OTHER INFORMATION

Time Work Started – Completed: 0700 – 1730 hrs	Prepared By: Ashwin Ranna

SITE PHOTOGRAPHS	
Photograph 1	
Date: 08/10/2017	
Direction: East	
Deconning Haul trucks leaving MSA	
Photograph 2	
Date: 08/10/2017	
Direction: North	
Recovering Stockpiles	

SITE PHOTOGRAPHS

Photograph 3 Date: 08/10/2017 Direction: South Moved material in C&D stockpile to allow movement of trucks on access road from southern perimeter of stockpile area	
Photograph 4 Date: 08/10/2017 Direction: East Spreading and compacting topsoil on top of fill.	

Geosyntec consultants

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DAILY FIELD REPORT

PROJECT AND SITE INFORMATION

PROJECT: Unisys/Elmira	DATE:8/15/2017	
DESCRIPTION: Field CQA	PROJECT NO.: MN0832B	PHASE NO.:25
CLIENT: Unisys	LOCATION: Elmira, NY	
CONTRACTOR(S): Recon		
WEATHER: 61-85F Cloudy in the morning , Sunny at end of day		

ON-SITE PERSONNEL

NAME	COMPANY	POSITION
Ashwin Ranna	Geosyntec Consultants	Staff Engineer
Aron Krasnopoler	Geosyntec Consultants	Project Engineer
Michael Furlong	Recon	Project Superintendent
John Geary	Recon	Project Manager
Kyle Snyder	Recon	Project Engineer
Genae Gramling	Recon	Site Safety Officer
Multiple Recon Employees	Recon	

VISITOR'S NAME	COMPANY
Scott Williams	NYSDEC
Mike Barber	NYSDEC

EQUIPMENT LIST

DESCRIPTION (QTY)	MODEL NO.	COMMENTS
PID	MiniRAE3000	2
PID (Recon)	MultiRAE	2
Dust monitor (Recon)	Thermoscientific PDR 1500	10
Nuclear Gauge	Troxler 3440	1

MATERIALS DELIVERED

DESCRIPTION	QTY	CONDITIONS / COMMENTS

DESCRIPTION OF WORK

Field Activities

1. Geosyntec arrived at site at 0600 and attended the daily site meeting and safety meeting conducted by Recon. Recon reviewed the day's plans including: Loading out >10 ppm Material from the stockpile area and excavating >10 ppm material from the football field and shifting it to the stockpile area. The safety meeting reviewed OSHA regulation revisions and storage and dimensional requirements for stockpile and excavation work.
2. PDR's were installed along the stockpile area perimeter and also along the perimeter for the football field. Recon began to prepare to load out> 10 ppm material.
3. The surveyor was on site at 0630 and laid out the extent of the football field excavation as well as the extent of the >10 ppm material and <10 ppm material. Between 0730 and 1700 Recon loaded material from the football field and stored it in the stockpile area between windrows 4 and 5 along section 1 and 2.
4. Between 0650 and 1230 Recon also loaded out 7 Dump trailers worth of material from windrow 5-6 Section 3 and 4 to the landfill.
5. DEC arrived on site at 0900 and reviewed the loadout of material from the stockpile area as well as the excavation work in the football field. Scott and Mike remained on site till 1300.
6. Recon shifted the breaker to the MSA at 0930. It will be used to break the large concrete pieces prior to shipping them off site. Recon also broke up the wooden trunks stored in the MSA area in preparation to ship them offsite.
7. Geosyntec contacted Clean Harbors and verified the tests required for shipping truck wash water to the facility. The bottle order has been placed and will arrive tomorrow.
8. Edger moved 32 dump truck loads of material from the H and I stockpiles (~450 Cu yds) to the Steuben county landfill. Loading will resume at 0830 tomorrow and should be completed by end of day.
9. EHS requested that the mulch beds at the back of the school be cleaned out Geosyntec Reached out to McDonald Contracting and requested a quote to weed and refill the mulch beds at the back of the school.
10. Between 1500 and 1530 the biweekly meet was held.
11. Stirling confirmed to Geosyntec that the material stored on the northern tennis court area was separated from the asphalt by at least 2" of subgrade material.
12. AK left site at 1620.
13. Recon stopped excavation at 1730. Stockpiles were covered with Poly. High winds at end of day knocked down the fence along the stockpile area. Recon repaired the fence and closed site at 1745.

SAMPLES COLLECTED

PROBLEMS ENCOUNTERED/ DELAYS

MODIFICATIONS TO PLANNED SCOPE OF WORK

QA/QC Samples

QA/QC Sample	**Parent Sample**
-	-

MISCELLANEOUS ITEMS

Loading of >10ppm material resume at 0600.

OTHER INFORMATION

Time Work Started – Completed: 0600 – 1745 hrs	Prepared By: Ashwin Ranna

SITE PHOTOGRAPHS	
Photograph 1	
Date: 08/15/2017	
Direction: North	
Deconning truck as it leaves stockpile area.	
Photograph 2	
Date: 08/15/2017	
Direction: East	
Loading of >10 ppm material from stockpile area.	

SITE PHOTOGRAPHS

Photograph 3 Date: 08/15/2017 Direction: West Unloading >10 ppm material in between windrows 4-5 b section 1,2.	
Photograph 4 Date: 08/15/2017 Direction: East ~30% of >10 ppm material excavation completed.	

Geosyntec consultants

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DAILY FIELD REPORT

PROJECT AND SITE INFORMATION

PROJECT: Unisys/Elmira	DATE:8/16/2017	
DESCRIPTION: Field CQA	PROJECT NO.: MN0832B	PHASE NO.:25
CLIENT: Unisys	LOCATION: Elmira, NY	
CONTRACTOR(S): Recon		
WEATHER: 55-84F Misty in the morning , Sunny at end of day		

ON-SITE PERSONNEL

NAME	COMPANY	POSITION
Ashwin Ranna	Geosyntec Consultants	Staff Engineer
Michael Furlong	Recon	Project Superintendent
Kyle Snyder	Recon	Project Engineer
Genae Gramling	Recon	Site Safety Officer
Multiple Recon Employees	Recon	

VISITOR'S NAME	COMPANY
Scott Williams	NYSDEC

EQUIPMENT LIST

DESCRIPTION (QTY)	MODEL NO.	COMMENTS
PID	MiniRAE3000	1
PID (Recon)	MultiRAE	2
Dust monitor (Recon)	Thermoscientific PDR 1500	10
Nuclear Gauge	Troxler 3440	1

MATERIALS DELIVERED

DESCRIPTION	QTY	CONDITIONS / COMMENTS

DESCRIPTION OF WORK

Field Activities

1. Geosyntec arrived at site at 0600 and attended the daily site meeting and safety meeting conducted by Recon. Recon reviewed the day's plans including: Loading out >10 ppm Material from the stockpile area and excavating delineated soil from the football field and shifting it to the stockpile area. The safety meeting reviewed driving safety.
2. PDR's were installed along the stockpile area perimeter and also along the perimeter for the football field. Recon began to load out > 10 ppm material. 15 truckloads (11 dump trailers and 4 Dump trucks) of material arrived on site. ~300 Cu yds of material was sent to the landfill. (Windrow B4-5 Section 3,4; Windrow 9 Section 5; Windrow 1b Section 1.
3. Between 0730 and 1430 Recon loaded >10 ppm material from the football field and stored it in the stockpile area between windrows 4 and 5 along section 1 and 2. After filling those 2 sections additional >10 ppm material was stored in Windrow 5-6b section 1. ~90 % of the >10 ppm material was shifted to the stockpile area. The remaining area has been left to allow access of haul vehicles in the excavation.
4. Recon confirmed to Geosyntec that all the material from the football field will be sent to the landfill. Material cannot be reused on account of high organic content (sod).Characterization samples will be collected accordingly.
5. Between 1500 and 1730 Recon loaded <10ppm material which was shifted to the stockpile windrow 9 section 1.
6. DEC arrived on site at 1200 and reviewed the loadout of material from the stockpile area as well as the excavation work in the football field. Scott left site at 1300.
7. Recon completed breaking the large concrete blocks and segregated the construction debris. Recon plans to remove the concrete material along with the material from windrow B 1-2.
8. AR collected characterization samples for the >10 ppm material and stored them on ice. Samples will be shipped tomorrow.
9. The bottle order for Water sampling arrived today. Samples will be collected and shipped tomorrow.
10. Edger moved 24 dump truck loads of material from the H stockpile (~300 Cu yds) to the Steuben county landfill. Loading will resume at 0830 tomorrow and will be completed by end of day
11. Recon confirmed that they have received approval from Casella to move additional material. They plan to utilize additional trucks to speed up the football field excavation. They plan to complete excavation by end of day tomorrow.
12. PDRs were collected at 1645.
13. Recon stopped excavation at 1715. Stockpiles were covered with Poly. Recon shut down site and AR left at 1730.

SAMPLES COLLECTED

FF >10 ppm Sample A, FF >10 ppm Sample C

PROBLEMS ENCOUNTERED/ DELAYS

MODIFICATIONS TO PLANNED SCOPE OF WORK

QA/QC Samples

QA/QC Sample	**Parent Sample**
-	-

MISCELLANEOUS ITEMS

Loading of >10ppm material resume at 0600.

OTHER INFORMATION

Time Work Started – Completed: 0600 – 1730 hrs	Prepared By: Ashwin Ranna

SITE PHOTOGRAPHS	
Photograph 1	
Date: 08/16/2017	
Direction: South	
Loading >10 ppm material to landfill.	
Photograph 2	
Date: 08/16/2017	
Direction: East	
Storage of >10 ppm material from football field in MSA	

SITE PHOTOGRAPHS	
Photograph 3 Date: 08/16/2017 Direction: West Broken concrete in MSA	
Photograph 4 Date: 08/16/2017 Direction: East Excavation of Football field. ~90% of >10ppm material completed. ~ 15% <10ppm material completed	

Geosyntec consultants

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612.253.8205

DAILY FIELD REPORT

PROJECT AND SITE INFORMATION

PROJECT: Unisys/Elmira	DATE:8/17/2017	
DESCRIPTION: Field CQA	PROJECT NO.: MN0832B	PHASE NO.:25
CLIENT: Unisys	LOCATION: Elmira, NY	
CONTRACTOR(S): Recon		
WEATHER: 72-85F Misty in the morning , Sunny at end of day		

ON-SITE PERSONNEL

NAME	COMPANY	POSITION
Ashwin Ranna	Geosyntec Consultants	Staff Engineer
Michael Furlong	Recon	Project Superintendent
Kyle Snyder	Recon	Project Engineer
Genae Gramling	Recon	Site Safety Officer
Multiple Recon Employees	Recon	

VISITOR'S NAME	COMPANY
Scott Williams	NYSDEC
Mike Barber	NYSDEC

EQUIPMENT LIST

DESCRIPTION (QTY)	MODEL NO.	COMMENTS
PID	MiniRAE3000	1
PID (Recon)	MultiRAE	2
Dust monitor (Recon)	Thermoscientific PDR 1500	10
Nuclear Gauge	Troxler 3440	1

MATERIALS DELIVERED

DESCRIPTION	QTY	CONDITIONS / COMMENTS

DESCRIPTION OF WORK

Field Activities

1. Geosyntec arrived at site at 0600 and attended the daily site meeting and safety meeting conducted by Recon. Recon reviewed the day's plans including: Loading out >10 ppm Material from the stockpile area and excavating delineated soil from the football field and shifting it to the stockpile area. The safety meeting reviewed proper storage and handling of PPE.
2. PDR's were installed along the stockpile area perimeter and also along the perimeter for the football field. Recon began to load out > 10 ppm material. 4 trailer trucks of material were sent to the landfill (~120 Cu yds of material) . (Material was removed from Windrow 8 Sections 5 and 6).
3. AR met with the groundskeeper from EHS and was informed that the sprinkler system could not be turned on because the 4" pipe was broken in another location at the baseball field. The groundskeeper (Jim) said that the pipe was likely broken during test borings made by a different contractor while working on the light poles in the baseball field. AR inspected the location and verified that we have not made any borings in that region.
4. Between 0730 and 1730 Recon loaded the top 6" of soil and grass from the football field and stored it in the stockpile area.> 10 ppm material was stored in between windrows 5 and 6 and < 10ppm material was stored at windrow 9.
5. AR collected wash water samples for analysis. Samples were stored on ice in preparation to ship out.
6. DEC arrived on site at 1130 and inspected the stockpile and excavation. They also reviewed the broken pipe location in the baseball field and observed pieces of PVC brought to the surface by the flow of water. Scott said he recollected seeing the contractor install the borings sometime in March.
7. Edger removed majority of remaining material on site ~ 200 cu yds. Last few truckloads of material from stockpile H will be shipped tomorrow.
8. AR collected characterization samples for the soil material from the football field. Samples were stored on ice.
9. The surveyor arrived at 1730 and checked that the grade had been achieved. Locations requiring further grading were finished and all material was shifted to the stockpile area.
10. Recon deconned the excavator at the stockpile and plans to move it to the southern excavation area to assist with spreading topsoil. Mike confirmed that they do not plan to load out soil tomorrow and that work will begin at 0700.
11. PDRs were collected at 1730. No exceedances were observed.
12. Stockpiles were covered with Poly. AR left at 1800 to Fedex to ship samples. Samples were shipped at 1845.

SAMPLES COLLECTED

WB 4-5, S1, A 081717; WB 4-5,S1,C 081717; WB 5-6, S1, A 081717; WB 5-6,S1,C 081717; W9, S2, A 081717; W9,S2,C 081717; Wash water sample.

PROBLEMS ENCOUNTERED/ DELAYS

MODIFICATIONS TO PLANNED SCOPE OF WORK

QA/QC Samples

QA/QC Sample	**Parent Sample**
-	-

MISCELLANEOUS ITEMS

OTHER INFORMATION

Time Work Started – Completed: 0600 – 1845 hrs	Prepared By: Ashwin Ranna

SITE PHOTOGRAPHS	
Photograph 1 Date: 08/17/2017 Direction: South Loading >10 ppm material to landfill.(Windrow 8 section 5)	
Photograph 2 Date: 08/17/2017 Direction: East Location in baseball field where pipe is broken	

SITE PHOTOGRAPHS	
Photograph 3	
Date: 08/17/2017	
Direction: East	
Completed excavation in Football field. Final grading completed and surveyed.	

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DAILY FIELD REPORT

PROJECT AND SITE INFORMATION

PROJECT: Unisys/Elmira	DATE:8/18/2017	
DESCRIPTION: Field CQA	PROJECT NO.: MN0832B	PHASE NO.:25
CLIENT: Unisys	LOCATION: Elmira, NY	
CONTRACTOR(S): Recon		
WEATHER: 63-86F Continuous showers in the morning , Sunny at end of day		

ON-SITE PERSONNEL

NAME	COMPANY	POSITION
Ashwin Ranna	Geosyntec Consultants	Staff Engineer
Michael Furlong	Recon	Project Superintendent
Kyle Snyder	Recon	Project Engineer
Genae Gramling	Recon	Site Safety Officer
Multiple Recon Employees	Recon	

VISITOR'S NAME	COMPANY
Scott Williams	NYSDEC
Mike Barber	NYSDEC

EQUIPMENT LIST

DESCRIPTION (QTY)	MODEL NO.	COMMENTS
PID	MiniRAE3000	1
PID (Recon)	MultiRAE	2
Dust monitor (Recon)	Thermoscientific PDR 1500	10
Nuclear Gauge	Troxler 3440	1

MATERIALS DELIVERED

DESCRIPTION	QTY	CONDITIONS / COMMENTS

DESCRIPTION OF WORK

Field Activities

1. Geosyntec arrived at site at 0700 and attended the daily site meeting and safety meeting conducted by Recon. Recon reviewed the day's plans including: Loading out Haul road material to the stockpile and installing demarcation layer and placing topsoil in football field. . The safety meeting reviewed importance of proper preparation before starting any work and gather points on site..
2. PDR's were not installed on account of continuous rain expected on site. Topsoil could not be brought to site in the morning on account of rain.
3. Recon began to load Haul road material from the eastern end of the sidewalk to the east of the southern excavation limit. The concrete of the sidewalk was broken and sent separately to the stockpile area. Material from the haul road was stored in Windrow b 4-5 Section 3 onwards.
4. Recon also manually cut the edge of the sod along the excavation of the football field in preparation for replacing sod after placing topsoil. Recon also manually completed removing large pebbles from the excavation area and repaired one broken sprinkler head as preparation for placing topsoil.
5. Edger completed haul out of all material from stockpile H at around 1000. A total of 110 truckloads of material ~ 1500 Cu yds was sent to the landfill.
6. Welliver's Jason Plumley identified that the power supply to shed at the end of the baseball field was not working, Mike Furlong reviewed the problem and determined that it was likely that the boring that cut the water pipe in the baseball field also damaged the electrical connection. Welliver will be excavating in the baseball field tomorrow to repair the water line, they plan to locate and repair the power line as well.
7. 2 piezometers were identified in the football field excavation. (originally the PVC pipe was identified as part of the sprinkler system) The 1" PVC pipes will be recapped and GPS'd to be able to identify them for later work.
8. Recon broke for lunch between 12 and 1230
9. NYSDEC was on site at 1330. Scott inspected the stockpile area and the football field excavation. Scott asked about the plans to repair the sprinkler system lines
10. Recon stopped work at 1630. AR was offsite at 1645. Rain in the morning prevented topsoil being brought to site. Recon plans to work tomorrow to spread topsoil and allow replacing sod in the football field on Tuesday. Work Will start at 0700

SAMPLES COLLECTED

PROBLEMS ENCOUNTERED/ DELAYS

MODIFICATIONS TO PLANNED SCOPE OF WORK

QA/QC Samples

QA/QC Sample	**Parent Sample**
-	-

MISCELLANEOUS ITEMS

OTHER INFORMATION

Time Work Started – Completed: 0700-1645 hrs	Prepared By: Ashwin Ranna

SITE PHOTOGRAPHS	
Photograph 1 Date: 08/18/2017 Direction: South Completed excavation, loadout of pushed up area of Haul road.	
Photograph 2 Date: 08/18/2017 Direction: West Completed haul out of Stockpile H and Stockpile I material from parking lot	

SITE PHOTOGRAPHS	
Photograph 3 Date: 08/18/2017 Direction: South Concrete material shifted to stockpile area.	
Photograph 4 Date: 08/18/2017 Direction: Down Piezometer in football field excavation.~13’ deep .2nd piezometer (not in picture) ~ 17’ deep.	

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DAILY FIELD REPORT

PROJECT AND SITE INFORMATION

PROJECT: Unisys/Elmira	DATE:8/19/2017	
DESCRIPTION: Field CQA	PROJECT NO.: MN0832B	PHASE NO.:25
CLIENT: Unisys	LOCATION: Elmira, NY	
CONTRACTOR(S): Recon		
WEATHER: 59-81F Sunny		

ON-SITE PERSONNEL

NAME	COMPANY	POSITION
Ashwin Ranna	Geosyntec Consultants	Staff Engineer
Michael Furlong	Recon	Project Superintendent
Kyle Snyder	Recon	Project Engineer
Genae Gramling	Recon	Site Safety Officer
Multiple Recon Employees	Recon	

VISITOR'S NAME	COMPANY

EQUIPMENT LIST

DESCRIPTION (QTY)	MODEL NO.	COMMENTS
PID	MiniRAE3000	1
PID (Recon)	MultiRAE	2
Dust monitor (Recon)	Thermoscientific PDR 1500	10
Nuclear Gauge	Troxler 3440	1

MATERIALS DELIVERED

DESCRIPTION	QTY	CONDITIONS / COMMENTS

DESCRIPTION OF WORK

Field Activities

1. Geosyntec arrived at site at 0700 and attended the daily site meeting and safety meeting conducted by Recon. Recon reviewed the day's plans including: installing demarcation layer and placing topsoil in football field. . The safety meeting reviewed Allergic reactions and identifying insect bites.
2. Recon spread out demarcation fabric and brought topsoil to site. Topsoil was unloaded onto the area of the haul road excavated yesterday and then taken to the football field by loading onto a small truck. Material was spread evenly and raked manually as required.
3. Welliver completed excavation to locate the broken pipe in the baseball field. The broken cable was adjacent to the pipe location.
4. Recon broke for lunch between 1200 and 1230.
5. All sprinkler heads and piezometers identified in the excavation were staked to be able to GPS locate them later.
6. Between 0730 and 1530 Recon brought 7 truckloads of topsoil to the site. Additional topsoil stored in piles in the southeast excavation area was also sent to the football field. ~ 90 % of the football field has topsoil on it. Final grading and leveling still to be completed. Mike plans to be completed on Monday and be ready for placing sod on Tuesday.
7. Recon shut down site at 1530 and AR left site.

SAMPLES COLLECTED

PROBLEMS ENCOUNTERED/ DELAYS

MODIFICATIONS TO PLANNED SCOPE OF WORK

QA/QC Samples

QA/QC Sample	**Parent Sample**
-	-

MISCELLANEOUS ITEMS

OTHER INFORMATION

Time Work Started – Completed: 0700-1530 hrs	Prepared By: Ashwin Ranna

SITE PHOTOGRAPHS

Photograph 1 Date: 08/18/2017 Direction: South Spreading topsoil on top of demarcation layer	
Photograph 2 Date: 08/19/2017 Direction: East Loading delivered topsoil into smaller truck to bring material across track to football field excavation area.	

SITE PHOTOGRAPHS	
Photograph 3 Date: 08/19/2017 Direction: Down Broken pipe and cable exposed in baseball field. School maintenance plan to fix on Monday	
Photograph 4 Date: 08/19/2017 Direction: East Spread material in football field. ~~90% complete	

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DAILY FIELD REPORT

PROJECT AND SITE INFORMATION

PROJECT: Unisys/Elmira	DATE:8/21/2017	
DESCRIPTION: Field CQA	PROJECT NO.: MN0832B	PHASE NO.:25
CLIENT: Unisys	LOCATION: Elmira, NY	
CONTRACTOR(S): Recon		
WEATHER: 66-89F Sunny		

ON-SITE PERSONNEL

NAME	COMPANY	POSITION
Ashwin Ranna	Geosyntec Consultants	Staff Engineer
Michael Furlong	Recon	Project Superintendent
Kyle Snyder	Recon	Project Engineer
Genae Gramling	Recon	Site Safety Officer
Multiple Recon Employees	Recon	

VISITOR'S NAME	COMPANY
Dom Insogna	EHS

EQUIPMENT LIST

DESCRIPTION (QTY)	MODEL NO.	COMMENTS
PID	MiniRAE3000	1
PID (Recon)	MultiRAE	2
Dust monitor (Recon)	Thermoscientific PDR 1500	10
Nuclear Gauge	Troxler 3440	1

MATERIALS DELIVERED

DESCRIPTION	QTY	CONDITIONS / COMMENTS

DESCRIPTION OF WORK

Field Activities

1. Geosyntec arrived at site at 0700 and attended the daily site meeting and safety meeting conducted by Recon. Recon reviewed the day's plans including: Grading topsoil in the football field and in the southern excavation area. The safety meeting reviewed working around heavy equipment and site awareness.
2. EHS contacted Geosyntec and requested that we dispose some material (~0.4 cu yds) excavated by Verizon during work in the back parking lot area. Material was excavated adjacent to the southern wall of the gymnasium building.
3. Dom arrived on site around 0930 and showed that the excavated material is currently stored on Poly and under poly near the access road between EHS and STCC. He also showed the origin of the material and said it came from between 0-3' below ground surface. Material was generated during the installation of fence posts around an external staircase. Material has not yet been characterized. AR tried to contact Dom repeatedly to request that the material be characterized by Stirling, and will try again tomorrow.
4. Recon completed spreading topsoil on the football field by 1330.
5. Welliver contacted Recon and said that the cables encountered in the baseball field were not providing power to the shed. They requested that Recon examine the eastern part of the northern excavation and determine if the power cable was broken there. Mike plans to locate the cable (outside the excavation) and then follow it to identify if there were any breaks within the excavation area.
6. McDonald contracting (mulch bed restoration) reached out today and said that they will be mobilizing to site tomorrow.
7. Between 1330 and 1630 Recon spread topsoil along the southern and western edges of the southern excavation area.
8. Recon shut down site at 1630 and AR left site.

SAMPLES COLLECTED

PROBLEMS ENCOUNTERED/ DELAYS

MODIFICATIONS TO PLANNED SCOPE OF WORK

QA/QC Samples

QA/QC Sample	**Parent Sample**
-	-

MISCELLANEOUS ITEMS

OTHER INFORMATION

Time Work Started – Completed: 0700-1630 hrs	Prepared By: Ashwin Ranna

SITE PHOTOGRAPHS	
Photograph 1 Date: 08/21/2017 Direction: West Completed football field topsoil spreading	
Photograph 2 Date: 08/21/2017 Direction: East Material stored from Back parking lot work by EHS.	

SITE PHOTOGRAPHS

Photograph 3

Date: 08/21/2017

Direction: Down



Repairs in progress in baseball field area.

Photograph 4

Date: 08/21/2017

Direction: North



Spreading topsoil in the southern excavation area.

Geosyntec consultants

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DAILY FIELD REPORT

PROJECT AND SITE INFORMATION

PROJECT: Unisys/Elmira	DATE:8/22/2017	
DESCRIPTION: Field CQA	PROJECT NO.: MN0832B	PHASE NO.:25
CLIENT: Unisys	LOCATION: Elmira, NY	
CONTRACTOR(S): Recon		
WEATHER: 58-86F Sunny		

ON-SITE PERSONNEL

NAME	COMPANY	POSITION
Ashwin Ranna	Geosyntec Consultants	Staff Engineer
Michael Furlong	Recon	Project Superintendent
Kyle Snyder	Recon	Project Engineer
Genae Gramling	Recon	Site Safety Officer
Multiple Recon Employees	Recon	

VISITOR'S NAME	COMPANY
Scott Williams	NYSDEC
Mike Barber	NYSDEC

EQUIPMENT LIST

DESCRIPTION (QTY)	MODEL NO.	COMMENTS
PID	MiniRAE3000	1
PID (Recon)	MultiRAE	2
Dust monitor (Recon)	Thermoscientific PDR 1500	10
Nuclear Gauge	Troxler 3440	1

MATERIALS DELIVERED

DESCRIPTION	QTY	CONDITIONS / COMMENTS

DESCRIPTION OF WORK

Field Activities

1. Geosyntec arrived at site at 0700 and attended the daily site meeting and safety meeting conducted by Recon. Recon reviewed the day's plans involving Laying sod in the football field area. Heavy overnight rains meant that spreading topsoil in the southern excavation area could not be carried out as the site was extremely wet. The safety meeting reviewed distracted driving and the importance of being aware of surroundings while moving around on site.
2. Sod delivery to the site was delayed. Recon began taking down the privacy fence as part of the site restoration activity. Fence was shifted to the stockpile area. Recon will be replacing the removed fence as part of the site restoration.
3. EHS completed repairs to the broken pipeline and the zone lighting power cables in the baseball field. The pipe was pressurized and the sprinklers in the baseball field were tested. Recon requested that the sprinklers in the football field not be turned on till the sod was placed.
4. Recon located the break in the cable and excavated a trench to reconnect the power cable to the baseball shed.
5. DEC was on site from 1030 to 1200. Scott took measurements of the sidewall dug by Edger for the storm drain and reviewed the work progress at the football field and the baseball pipe repair. He said that he expected to be back on site tomorrow and recommended that Recon place additional zip ties to the privacy fence in the stockpile area.
6. Sod arrived at 1400. Between 1400 and 1630 Recon placed sod in 85% of the football field.
7. The biweekly meeting was held at 1500. Site progress was reviewed and plans for next steps were discussed.
8. Mike from McDonald contracting contacted Geosyntec and confirmed that they would be on site in the morning tomorrow.
9. Mike Furlong confirmed that they would be starting the loadout of the remaining >10 ppm material from the stockpile area tomorrow. Loadout will begin at 0600. Recon is coordinating an electrician to complete repairs.
10. Work was stopped at 1630. AR left site.

SAMPLES COLLECTED

PROBLEMS ENCOUNTERED/ DELAYS

MODIFICATIONS TO PLANNED SCOPE OF WORK

QA/QC Samples

QA/QC Sample	**Parent Sample**
-	-

MISCELLANEOUS ITEMS

OTHER INFORMATION

Time Work Started – Completed: 0700-1630 hrs	Prepared By: Ashwin Ranna

SITE PHOTOGRAPHS	
Photograph 1 Date: 08/22/2017 Direction: Eastt Overnight heavy rain on site. Topsoil still wet.	
Photograph 2 Date: 08/22/2017 Direction: East Trench dug to locate and relay power cable in the eastern corner of northern excavation	

SITE PHOTOGRAPHS	
Photograph 3 Date: 08/22/2017 Direction: East EHS completed repairs to pipe. Main pipeline repressurized. Baseball field Sprinklers turned on.	
Photograph 4 Date: 08/22/2017 Direction: South 85% of sod placed in football field	

Geosyntec consultants

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DAILY FIELD REPORT

PROJECT AND SITE INFORMATION

PROJECT: Unisys/Elmira	DATE:8/23/2017	
DESCRIPTION: Field CQA	PROJECT NO.: MN0832B	PHASE NO.:25
CLIENT: Unisys	LOCATION: Elmira, NY	
CONTRACTOR(S): Recon		
WEATHER: 51-75F Sunny		

ON-SITE PERSONNEL

NAME	COMPANY	POSITION
Ashwin Ranna	Geosyntec Consultants	Staff Engineer
Michael Furlong	Recon	Project Superintendent
Kyle Snyder	Recon	Project Engineer
Genae Gramling	Recon	Site Safety Officer
Multiple Recon Employees	Recon	

VISITOR'S NAME	COMPANY

EQUIPMENT LIST

DESCRIPTION (QTY)	MODEL NO.	COMMENTS
PID	MiniRAE3000	1
PID (Recon)	MultiRAE	2
Dust monitor (Recon)	Thermoscientific PDR 1500	10
Nuclear Gauge	Troxler 3440	1

MATERIALS DELIVERED

DESCRIPTION	QTY	CONDITIONS / COMMENTS

DESCRIPTION OF WORK

Field Activities

1. Geosyntec arrived at site at 0600 and attended the daily site meeting and safety meeting conducted by Recon. Recon reviewed the day's plans including: removing >10 ppm material from stockpile area; completing sod placement in football field; sending haul road material to stockpile area. Heavy overnight rains prevented spreading topsoil in the southern excavation area as the site was still extremely wet. The safety meeting reviewed biological hazards associated with the site.
2. Recon loaded material from Windrow b 1-2 Sections 3 and 4. Material was loaded between 0630 and 1400. A total amounting to about 175 cu yds was taken offsite.
3. PDRs were installed in the stockpile area.
4. McDonald landscapers arrived on site at 0900. They completed removal of all weeds on all 3 mulch beds and began placing fresh mulch along the mulch bed adjacent to the gym building. They anticipate being completed by end of day tomorrow.
5. Recon completed placing the sod in the football field at 1030. Recon then demobilized from the football field and dismantled the temporary haul road made to allow access to the football field excavation.
6. Recon dismantled the main haul road and placed the material generated in the stockpile in windrow B4-5 Section 3 onwards and in windrow B5-6 section 3 onwards. The truck wash was drained of all standing water prior to being dismantled.
7. AR contacted Dom Insogna and requested an inspection of the mulch beds on Friday. Dom said that he would be off on Friday and said he would try to make it down sometime tomorrow and would definitely come to see the work on Monday.
8. Between 1600 and 1720 Recon arranged to re-cover the piles and fix the privacy cover along the fence.
9. Work was stopped at 1730 and AR left site.

SAMPLES COLLECTED

PROBLEMS ENCOUNTERED/ DELAYS

MODIFICATIONS TO PLANNED SCOPE OF WORK

QA/QC Samples

QA/QC Sample	**Parent Sample**
-	-

MISCELLANEOUS ITEMS

OTHER INFORMATION

Time Work Started – Completed: 0700-1630 hrs	Prepared By: Ashwin Ranna

SITE PHOTOGRAPHS	
Photograph 1 Date: 08/23/2017 Direction: East Dismantling truck wash in haul road. Removing standing water.	
Photograph 2 Date: 08/23/2017 Direction: East Loadout of >10ppm material from windrow b 1-2	

SITE PHOTOGRAPHS

Photograph 3 Date: 08/23/2017 Direction: East Completed sod placement in football field	
Photograph 4 Date: 08/23/2017 Direction: South Replacing mulch on mulch bed adjacent to gym building after removing all weeds.	

Geosyntec consultants

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DAILY FIELD REPORT

PROJECT AND SITE INFORMATION

PROJECT: Unisys/Elmira	DATE:8/29/2017	
DESCRIPTION: Field CQA	PROJECT NO.: MN0832B	PHASE NO.:25
CLIENT: Unisys	LOCATION: Elmira, NY	
CONTRACTOR(S): Recon		
WEATHER: 49-69Fs Sunny		

ON-SITE PERSONNEL

NAME	COMPANY	POSITION
Ashwin Ranna	Geosyntec Consultants	Staff Engineer
Mike Furlong	Recon	Project Superintendent
Kyle Snyder	Recon	Project Engineer
Genae Gramling	Recon	Site Safety Officer
Multiple Recon Employees	Recon	

VISITOR'S NAME	COMPANY
Scott Williams	NYSDEC

EQUIPMENT LIST

DESCRIPTION (QTY)	MODEL NO.	COMMENTS
PID	MiniRAE3000	1
PID (Recon)	MultiRAE	2
Dust monitor (Recon)	Thermoscientific PDR 1500	5
Nuclear Gauge	Troxler 3440	1

MATERIALS DELIVERED

DESCRIPTION	QTY	CONDITIONS / COMMENTS

DESCRIPTION OF WORK

Field Activities

1. Geosyntec arrived at site at 0700 and attended the daily site meeting conducted by Recon. Recon reviewed the day's plans including: Loading out of >10 ppm material from the stockpile; Cleanup of site in preparation to demobilize and reinstalling fences along the track and southern excavation area. The safety meeting reviewed cold working and dehydration.
2. PDR's were installed along the edge of the fence of the stockpile area.
3. Between 0730 and 1330 Recon sent 4 truckloads of material from the windrow b1-2 section 4. Concrete debris was also sent out with the last truck.
4. Edger began placing sidewalk along the east west wall of the building.
5. Recon labor to install fence arrived on site at 0900. They reviewed the locations where the fence was to be installed and were advised that fence posts would have to be driven in as material could not be excavated to install the posts. (Plan depth of posts ~4').Labor left site to organize equipment after marking out the fence lines and will be back to begin working tomorrow
6. NYSDEC was on site at 1300. Scott reviewed the stockpile loadout and sod placement.
7. Recon arranged material for loadout tomorrow at 0600. Labor closed up site and site was shut down at 1500.
8. The biweekly meeting was held at 1500. Site progress and plans were reviewed and plans to consolidate the stockpile were discussed.
9. AR left site at 1530.

SAMPLES COLLECTED

PROBLEMS ENCOUNTERED/ DELAYS

MODIFICATIONS TO PLANNED SCOPE OF WORK

QA/QC Samples

QA/QC Sample	**Parent Sample**

MISCELLANEOUS ITEMS

OTHER INFORMATION

Time Work Started – Completed: 0700-1530 hrs	Prepared By: Ashwin Ranna

SITE PHOTOGRAPHS	
Photograph 1 Date: 08/29/2017 Direction: East Loadout of material from Windrow b1-2 Section 4	
Photograph 2 Date: 08/29/2017 Direction: South Edger installing East West sidewalk.	

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DAILY FIELD REPORT

PROJECT AND SITE INFORMATION

PROJECT: Unisys/Elmira	DATE:8/31/2017	
DESCRIPTION: Field CQA	PROJECT NO.: MN0832B	PHASE NO.:25
CLIENT: Unisys	LOCATION: Elmira, NY	
CONTRACTOR(S): Recon		
WEATHER: 57-77F Sunny		

ON-SITE PERSONNEL

NAME	COMPANY	POSITION
Ashwin Ranna	Geosyntec Consultants	Staff Engineer
Mike Furlong	Recon	Project Superintendent
Kyle Snyder	Recon	Project Engineer
Genae Gramling	Recon	Site Safety Officer
Multiple Recon Employees	Recon	

VISITOR'S NAME	COMPANY

EQUIPMENT LIST

DESCRIPTION (QTY)	MODEL NO.	COMMENTS
PID	MiniRAE3000	1
PID (Recon)	MultiRAE	2
Dust monitor (Recon)	Thermoscientific PDR 1500	5
Nuclear Gauge	Troxler 3440	1

MATERIALS DELIVERED

DESCRIPTION	QTY	CONDITIONS / COMMENTS

DESCRIPTION OF WORK

Field Activities

1. Geosyntec arrived at site at 0700 and headed to the stockpile area.
2. Recon labor had arrived at 0600 and begun preparing for consolidation of the stockpile.
3. PDR's were installed along the edge of the fence of the stockpile area.
4. Between 0730 and 1730 Recon consolidated the stockpile material. Haul road material was segregated during consolidation and was placed along the north eastern side of the stockpile. Material was separated from the remaining stockpile material by a demarcation layer.
5. Heavy rain was experienced on site between 0800 and 0930. PDR's were collected during the shower and reinstalled at 1200.
6. Fence installation began at 1000. Fence posts were driven along the edge of the sidewalk and the track area.
7. Recon broke for lunch between 12 and 1230.
8. Edger continued placing sidewalk along the east west wall of the building.
9. PDR's were collected at 1730.
10. Recon began to close the site and cover the stockpile at 1530. The lining was spread and weighed down with sandbags. Liner was spread by 1900.
11. Recon shut down site and headed out at 1900.

SAMPLES COLLECTED

PROBLEMS ENCOUNTERED/ DELAYS

MODIFICATIONS TO PLANNED SCOPE OF WORK

QA/QC Samples

QA/QC Sample	**Parent Sample**

MISCELLANEOUS ITEMS

OTHER INFORMATION

Time Work Started – Completed: 0700-1900 hrs	Prepared By: Ashwin Ranna

SITE PHOTOGRAPHS	
Photograph 1 Date: 08/31/2017 Direction: South Segregating Haul road material	
Photograph 2 Date: 08/31/2017 Direction: South Demarcation layer before incorporating haul road material into stockpile	

SITE PHOTOGRAPHS	
Photograph 3 Date: 08/31/2017 Direction: West Installing fence posts along track	
Photograph 4 Date: 08/31/2017 Direction: South Covered stockpile at end of day	

Geosyntec consultants

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DAILY FIELD REPORT

PROJECT AND SITE INFORMATION

PROJECT: Unisys/Elmira	DATE:09/02/2017	
DESCRIPTION: Field CQA	PROJECT NO.: MN0832B	PHASE NO.:25
CLIENT: Unisys	LOCATION: Elmira, NY	
CONTRACTOR(S): Recon		
WEATHER: 39-66F Sunny		

ON-SITE PERSONNEL

NAME	COMPANY	POSITION
Ashwin Ranna	Geosyntec Consultants	Staff Engineer
Mike Furlong	Recon	Project Superintendent
Genae Gramling	Recon	Site Safety Officer
Multiple Recon Employees	Recon	

VISITOR'S NAME	COMPANY

EQUIPMENT LIST

DESCRIPTION (QTY)	MODEL NO.	COMMENTS
PID	MiniRAE3000	1
PID (Recon)	MultiRAE	2
Dust monitor (Recon)	Thermoscientific PDR 1500	5
Nuclear Gauge	Troxler 3440	1

MATERIALS DELIVERED

DESCRIPTION	QTY	CONDITIONS / COMMENTS

DESCRIPTION OF WORK

Field Activities

1. Geosyntec arrived at site at 0700. Recon held the daily meeting and reviewed the planned activities: Continuation of stockpile consolidation, spreading topsoil for hydroseeding, fence installation and cleanup of site in preparation for demobilization. Recon held the safety meeting to review heat and cold stress.
2. Recon labor spread the topsoil and prepared for hydro seeding on Tuesday.
3. Recon continued work on long term storage for the stockpiled material. Work was focused on placing of crane mats on top of stockpile and covering the truck wash heading out of the stockpile area. Work continued from 0700 to 1630.
4. Recon completed fencepost installation along the east section of the track and began preparation to install the netting. Work should be completed Tuesday.
5. Recon completed placing material on the top of berm around the stockpile.
6. Recon broke for lunch between 12 and 1230.
7. MF reviewed the remaining activities on site and confirmed the planned schedule to AR: All dates are for the week starting 9/3/2017.
   A) Hydroseeding: Will be completed Tuesday
   B) Fence work within school grounds: Tuesday
   C) Disposal of wash water: Clean harbors expected on site on Tuesday morning.
   D) Removing the Adler tanks from the School property: Will be completed Tuesday
   E) Adjusting the stockpile fence and reinforcing the MSA fence. : Expected to be completed Wednesday.
8. Recon began to close the site at 1630.AR left site at 1630.MF will not be on site next week. Recon's Kyle Snyder will be in charge of completing demobilization from site. MF mentioned that he had placed ~ 200 tons of material on top of the berm around the stockpile.

SAMPLES COLLECTED

PROBLEMS ENCOUNTERED/ DELAYS

MODIFICATIONS TO PLANNED SCOPE OF WORK

QA/QC Samples

QA/QC Sample	**Parent Sample**

MISCELLANEOUS ITEMS

OTHER INFORMATION

Time Work Started – Completed: 0700-1630 hrs	Prepared By: Ashwin Ranna

SITE PHOTOGRAPHS	
Photograph 1	
Date: 09/02/2017	
Direction: South	
Placing crane mats on top of stockpile.	
Photograph 2	
Date: 09/02/2017	
Direction: North	
Spreading tarp on top of truck wash at MSA	

SITE PHOTOGRAPHS

Photograph 3 Date: 09/02/2017 Direction: North Covered truck wash	
Photograph 4 Date: 09/02/2017 Direction: West Spreading topsoil to edge of sidewalk for hydroseeding	

Geosyntec consultants

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DAILY FIELD REPORT

PROJECT AND SITE INFORMATION

PROJECT: Unisys/Elmira	DATE:09/05/2017	
DESCRIPTION: Field CQA	PROJECT NO.: MN0832B	PHASE NO.:25
CLIENT: Unisys	LOCATION: Elmira, NY	
CONTRACTOR(S): Recon		
WEATHER: 53-74F Overcast light-heavy rains		

ON-SITE PERSONNEL

NAME	COMPANY	POSITION
Ashwin Ranna	Geosyntec Consultants	Staff Engineer
Kyle Snyder	Recon	Project Engineer
Multiple Recon Employees	Recon	

VISITOR'S NAME	COMPANY

EQUIPMENT LIST

DESCRIPTION (QTY)	MODEL NO.	COMMENTS
PID	MiniRAE3000	1
Nuclear Gauge	Troxler 3440	1

MATERIALS DELIVERED

DESCRIPTION	QTY	CONDITIONS / COMMENTS

DESCRIPTION OF WORK

Field Activities

1. Geosyntec arrived at site at 0700. Recon held the daily meeting and reviewed the planned activities: Getting all of the school area ready for start of school, Preparation of stockpile area for long term storage. Recon held the safety meeting to review working in the rain and slips trips and falls.
2. Edger labor got the formwork off the last piece of sidewalk. Recon spread topsoil to prepare for hydroseeding.
3. AR observed that high wind had caused the stockpile area fence to blow over, and contacted STCC Kevin Knapp to let him know that we would be resolving it later today.
4. AR called Dom Insogna and requested a site inspection tomorrow morning. DI said he would be available after 0930.
5. Recon began repairs to the fence at 1100 and shifted the eastern fence of the MSA to provide access to the STCC. Recon completed fence repairs at 1700.
6. Between 0900 and 1400 clean harbor's containerized the MSA frac (adler)tank water and cleaned it out.
7. Hydrosseding contractor arrived on site at 1000 and completed Hydroseeding site by 1500. Recon removed inlet protection from catch basins at end of day.
8. Fence contractor arrived on site at 1100 and continued working till 1730. All fences have been installed barring one gate at the eastern end. Special equipment to install that gate will be required and work is expected to be completed early in the morning tomorrow.
9. Recon got the frac tank on school property offsite at 1300. Recon spread hydroseed under the frac tank location
10. Recon broke for lunch from 1200 to 1230.
11. Recon cleaned up the site from 1730 to 1930. All material in the trailer was shifted to the conex and Recon demobed from site at 1930. Ar left site at 1930.

SAMPLES COLLECTED

PROBLEMS ENCOUNTERED/ DELAYS

MODIFICATIONS TO PLANNED SCOPE OF WORK

QA/QC Samples

QA/QC Sample	**Parent Sample**

MISCELLANEOUS ITEMS

OTHER INFORMATION

Time Work Started – Completed: 0700-1930 hrs	Prepared By: Ashwin Ranna

SITE PHOTOGRAPHS	
Photograph 1 Date: 09/05/2017 Direction: East Clean out of Frac tank	
Photograph 2 Date: 09/05/2017 Direction: South Shifting eastern end of MSA fence. Road has been cleaned.	

SITE PHOTOGRAPHS	
Photograph 3 Date: 09/05/2017 Direction: South Repair to MSA fence	
Photograph 4 Date: 09/02/2017 Direction: East Hydroseeding completed Fences installed, Site cleaned.	

Geosyntec consultants

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DAILY FIELD REPORT

PROJECT AND SITE INFORMATION

PROJECT: Unisys/Elmira	DATE:09/06/2017	
DESCRIPTION: Field CQA	PROJECT NO.: MN0832B	PHASE NO.:25
CLIENT: Unisys	LOCATION: Elmira, NY	
CONTRACTOR(S): Recon		
WEATHER: 51-65F Overcast light rains		

ON-SITE PERSONNEL

NAME	COMPANY	POSITION
Ashwin Ranna	Geosyntec Consultants	Staff Engineer
Kyle Snyder	Recon	Project Engineer
Multiple Recon Employees	Recon	

VISITOR'S NAME	COMPANY
Dom Insogna	EHS

EQUIPMENT LIST

DESCRIPTION (QTY)	MODEL NO.	COMMENTS
PID	MiniRAE3000	1
Nuclear Gauge	Troxler 3440	1

MATERIALS DELIVERED

DESCRIPTION	QTY	CONDITIONS / COMMENTS

DESCRIPTION OF WORK

Field Activities

1. Geosyntec arrived at site at 0700. Recon held the daily meeting and reviewed the planned activities: Completing reinforcing the MSA fence and prep to demobilize from the site. Recon covered housekeeping and preparation for work prior to starting work
2. Recons trailer was sent offsite at 0800.
3. Recon started installing the reinforcement to the fence along the MSA at 0900. Stakes were hammered in and will be fixed to the fence tomorrow.
4. Recon installed the gate at the far end of the track at 0930.
5. Dom Insogna from EHS and Kyle Snyder from Recon performed a site walk along the school work area. He mentioned that Stirling had sampled the small pile of material at the back of the school parking lot. He requested that we look into replacing the manhole cover along the back road of the school. Dom said he would advise the school kids to stay off the hydroseeded areas.
6. Recons excavator and dozer were taken offsite.
7. Recon continued installing posts for reinforcing the fence till 0630. KS expects to complete fence reinforcement, attaching the rods to the fence, reattaching the privacy screen to the fence and staking the silt socks tomorrow.

SAMPLES COLLECTED

PROBLEMS ENCOUNTERED/ DELAYS

MODIFICATIONS TO PLANNED SCOPE OF WORK

QA/QC Samples

QA/QC Sample	**Parent Sample**

MISCELLANEOUS ITEMS

OTHER INFORMATION

Time Work Started – Completed: 0700-1830 hrs	Prepared By: Ashwin Ranna

SITE PHOTOGRAPHS	
Photograph 1	
Date: 09/06/2017	
Direction: East	
Installing reinforcement for the fence	

Geosyntec consultants

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DAILY FIELD REPORT

PROJECT AND SITE INFORMATION

PROJECT: Unisys/Elmira	DATE:09/08/2017	
DESCRIPTION: Field CQA	PROJECT NO.: MN0832B	PHASE NO.:25
CLIENT: Unisys	LOCATION: Elmira, NY	
CONTRACTOR(S): Recon		
WEATHER: 48-66F Sunny		

ON-SITE PERSONNEL

NAME	COMPANY	POSITION
Ashwin Ranna	Geosyntec Consultants	Staff Engineer
Kyle Snyder	Recon	Project Engineer
Emmanuel	Recon	Labor

VISITOR'S NAME	COMPANY
Scott Williams	NYSDEC
Mike Barber	NYSDEC
Dominic Insogna	EHS
Mike Dunn	EHS

EQUIPMENT LIST

DESCRIPTION (QTY)	MODEL NO.	COMMENTS
PID	MiniRAE3000	1
Nuclear Gauge	Troxler 3440	1

MATERIALS DELIVERED

DESCRIPTION	QTY	CONDITIONS / COMMENTS

DESCRIPTION OF WORK

Field Activities

1. Geosyntec arrived at site at 0700. Recon held the daily meeting and reviewed the planned activities: Cleaning site, sitewalk and punch point resolution. . Recon covered slips trips and falls as part of the safety meeting.
2. Between 0800 and 1200 Recon labor cleaned up around the site, staked down the silt sock and repaired holes in the privacy covers.
3. Kevin Knapp was on site at 0930. He was happy with the work completed on site and said he was going to be inspecting the area on Mondays and Thursdays. Kevin also inspected the access road between STCC and EHS.
4. MD and DI of EHS were on site. They said that it looked like the installation of the fence had damaged the hydroseeded area. Recon agreed to resolve the issue and EHS agreed that the site was too wet to repair at present.
5. The Frac tank at the MSA was taken offsite at 1100.
6. Recon closed the stockpile and installed a combination lock on the gate (access code 3925.)
7. Recon continued cleanup on site and installed wire clamps on the fence sections across the access road between STCC and EHS.
8. NYSDEC was on site at 1230. They inspected the repairs to the potholes and the additional sandbags on the stockpile liner.
9. AR collected the nuclear gauge took down the notices and headed offsite at 1330.

SAMPLES COLLECTED

PROBLEMS ENCOUNTERED/ DELAYS

MODIFICATIONS TO PLANNED SCOPE OF WORK

QA/QC Samples

QA/QC Sample	**Parent Sample**

MISCELLANEOUS ITEMS

OTHER INFORMATION

Time Work Started – Completed: 0700-1330 hrs	Prepared By: Ashwin Ranna

SITE PHOTOGRAPHS	
Photograph 1 Date: 09/08/2017 Direction: North MSA Adler tank (Frac tank) taken offsite.	
Photograph 2 Date: 09/08/2017 Direction: East Locked gate to MSA	

SITE PHOTOGRAPHS	
Photograph 3 Date: 09/08/2017 Direction: East Final cleanup along eastern road of MSA	
Photograph 4 Date: 09/08/2017 Direction: South East Repairs to privacy fence openings and holes	

Appendix D

Copies of Field Data Sheets for CAMP Monitoring

Summary of CAMP Monitoring

Beech and Bonaparte

Former Sperry Remington Site - North Portion
Elmira, New York

Unit Location	Record Date	Record Time	Unit Serial Number	Start Date	Start Time	Record #	Dust Concentration in µg/m^3	Temp	RHumidity	AtmoPressure in mm/Hg	Notes
PDR 818 UW Tennis Court 1 of 2.txt	6/18/2017	12:39:11 PM	0115249311	6/18/2017	12:24:11 PM	1	1.78	27.9	54	734	
PDR 818 UW Tennis Court 1 of 2.txt	6/18/2017	12:54:11 PM	0115249311	6/18/2017	12:24:11 PM	2	2.03	30.2	51	734	
PDR 818 UW Tennis Court 1 of 2.txt	6/18/2017	1:09:11 PM	0115249311	6/18/2017	12:24:11 PM	3	1.56	31.9	47	734	
PDR 818 UW Tennis Court 1 of 2.txt	6/18/2017	1:24:11 PM	0115249311	6/18/2017	12:24:11 PM	4	2.63	33.1	43	734	
PDR 818 UW Tennis Court 1 of 2.txt	6/18/2017	1:39:11 PM	0115249311	6/18/2017	12:24:11 PM	5	2.2	33.6	41	734	
PDR 818 UW Tennis Court 1 of 2.txt	6/18/2017	1:54:11 PM	0115249311	6/18/2017	12:24:11 PM	6	1.13	33.9	40	734	
PDR 818 UW Tennis Court 1 of 2.txt	6/18/2017	2:09:11 PM	0115249311	6/18/2017	12:24:11 PM	7	0.67	34.1	40	734	
PDR 818 UW Tennis Court 1 of 2.txt	6/18/2017	2:24:11 PM	0115249311	6/18/2017	12:24:11 PM	8	0.72	34.5	40	734	
PDR 818 UW Tennis Court 1 of 2.txt	6/18/2017	2:39:11 PM	0115249311	6/18/2017	12:24:11 PM	9	0.84	34.8	39	734	
PDR 818 UW Tennis Court 1 of 2.txt	6/18/2017	2:54:11 PM	0115249311	6/18/2017	12:24:11 PM	10	0.8	34.9	39	734	
PDR 1421 DW Stockpile Area.txt	6/20/2017	7:32:08 AM	0115249975	6/20/2017	7:17:08 AM	1	0.78	18.3	69	736	
PDR 1421 DW Stockpile Area.txt	6/20/2017	7:47:08 AM	0115249975	6/20/2017	7:17:08 AM	2	0.36	18.5	67	736	
PDR 1421 DW Stockpile Area.txt	6/20/2017	8:02:08 AM	0115249975	6/20/2017	7:17:08 AM	3	0.35	18.1	66	736	
PDR 1421 DW Stockpile Area.txt	6/20/2017	8:17:08 AM	0115249975	6/20/2017	7:17:08 AM	4	1.81	18.1	66	736	
PDR 1421 DW Stockpile Area.txt	6/20/2017	8:32:08 AM	0115249975	6/20/2017	7:17:08 AM	5	0.14	18.8	64	736	
PDR 1421 DW Stockpile Area.txt	6/20/2017	8:47:08 AM	0115249975	6/20/2017	7:17:08 AM	6	-0.28	20.8	58	736	
PDR 1421 DW Stockpile Area.txt	6/20/2017	9:02:08 AM	0115249975	6/20/2017	7:17:08 AM	7	1.9	22	52	738	
PDR 1421 DW Stockpile Area.txt	6/20/2017	9:17:08 AM	0115249975	6/20/2017	7:17:08 AM	8	1.25	21.3	53	738	
PDR 1421 DW Stockpile Area.txt	6/20/2017	9:32:08 AM	0115249975	6/20/2017	7:17:08 AM	9	5.19	21.3	54	736	
PDR 1421 DW Stockpile Area.txt	6/20/2017	9:47:08 AM	0115249975	6/20/2017	7:17:08 AM	10	1.25	22.6	50	738	
PDR 1421 DW Stockpile Area.txt	6/20/2017	10:02:08 AM	0115249975	6/20/2017	7:17:08 AM	11	0.03	23.6	45	738	
PDR 1421 DW Stockpile Area.txt	6/20/2017	10:17:08 AM	0115249975	6/20/2017	7:17:08 AM	12	0.9	24.7	43	738	
PDR 1421 DW Stockpile Area.txt	6/20/2017	10:32:08 AM	0115249975	6/20/2017	7:17:08 AM	13	5.07	25.2	40	738	
PDR 1421 DW Stockpile Area.txt	6/20/2017	10:47:08 AM	0115249975	6/20/2017	7:17:08 AM	14	8.54	24	41	738	
PDR 1421 DW Stockpile Area.txt	6/20/2017	11:02:08 AM	0115249975	6/20/2017	7:17:08 AM	15	-1.29	24.4	40	738	
PDR 1421 DW Stockpile Area.txt	6/20/2017	11:17:08 AM	0115249975	6/20/2017	7:17:08 AM	16	-1.16	25.6	38	738	
PDR 1421 DW Stockpile Area.txt	6/20/2017	11:32:08 AM	0115249975	6/20/2017	7:17:08 AM	17	0.11	26.2	36	738	
PDR 1421 DW Stockpile Area.txt	6/20/2017	11:47:08 AM	0115249975	6/20/2017	7:17:08 AM	18	-1.71	26.9	35	738	
PDR 1421 DW Stockpile Area.txt	6/20/2017	12:02:08 PM	0115249975	6/20/2017	7:17:08 AM	19	-1.26	27.6	34	738	
PDR 1421 DW Stockpile Area.txt	6/20/2017	12:17:08 PM	0115249975	6/20/2017	7:17:08 AM	20	-1.86	28	32	738	
PDR 1421 DW Stockpile Area.txt	6/20/2017	12:32:08 PM	0115249975	6/20/2017	7:17:08 AM	21	-2.05	27.7	33	738	
PDR 1421 DW Stockpile Area.txt	6/20/2017	12:47:08 PM	0115249975	6/20/2017	7:17:08 AM	22	-0.16	27.5	33	738	
PDR 1421 DW Stockpile Area.txt	6/20/2017	1:02:08 PM	0115249975	6/20/2017	7:17:08 AM	23	0.57	27.2	34	738	
PDR 1421 DW Stockpile Area.txt	6/20/2017	1:17:08 PM	0115249975	6/20/2017	7:17:08 AM	24	0.29	28	34	738	
PDR 1421 DW Stockpile Area.txt	6/20/2017	1:32:08 PM	0115249975	6/20/2017	7:17:08 AM	25	0.27	26.9	34	738	
PDR 1421 DW Stockpile Area.txt	6/20/2017	1:47:08 PM	0115249975	6/20/2017	7:17:08 AM	26	-2.23	27.3	34	738	
PDR 1421 DW Stockpile Area.txt	6/20/2017	2:02:08 PM	0115249975	6/20/2017	7:17:08 AM	27	0.2	27.9	32	738	
PDR 1421 DW Stockpile Area.txt	6/20/2017	2:17:08 PM	0115249975	6/20/2017	7:17:08 AM	28	-0.14	29.7	29	738	
PDR 1421 DW Stockpile Area.txt	6/20/2017	2:32:08 PM	0115249975	6/20/2017	7:17:08 AM	29	-0.52	31.3	26	738	
PDR 1429 UW Stockpile Area.txt	6/20/2017	7:31:47 AM	0115250009	6/20/2017	7:16:47 AM	1	1.78	17.2	75	736	
PDR 1429 UW Stockpile Area.txt	6/20/2017	7:46:47 AM	0115250009	6/20/2017	7:16:47 AM	2	1.08	17.5	73	736	
PDR 1429 UW Stockpile Area.txt	6/20/2017	8:01:47 AM	0115250009	6/20/2017	7:16:47 AM	3	1.27	17	73	738	
PDR 1429 UW Stockpile Area.txt	6/20/2017	8:16:47 AM	0115250009	6/20/2017	7:16:47 AM	4	1.51	16.7	71	738	
PDR 1429 UW Stockpile Area.txt	6/20/2017	8:31:47 AM	0115250009	6/20/2017	7:16:47 AM	5	1.41	17.1	71	738	
PDR 1429 UW Stockpile Area.txt	6/20/2017	8:46:47 AM	0115250009	6/20/2017	7:16:47 AM	6	1.31	18.3	68	738	
PDR 1429 UW Stockpile Area.txt	6/20/2017	9:01:47 AM	0115250009	6/20/2017	7:16:47 AM	7	1.31	19.4	62	738	
PDR 1429 UW Stockpile Area.txt	6/20/2017	9:16:47 AM	0115250009	6/20/2017	7:16:47 AM	8	1.38	19.3	62	738	
PDR 1429 UW Stockpile Area.txt	6/20/2017	9:31:47 AM	0115250009	6/20/2017	7:16:47 AM	9	1.22	19.6	62	738	
PDR 1429 UW Stockpile Area.txt	6/20/2017	9:46:47 AM	0115250009	6/20/2017	7:16:47 AM	10	0.94	20.2	59	738	
PDR 1429 UW Stockpile Area.txt	6/20/2017	10:01:47 AM	0115250009	6/20/2017	7:16:47 AM	11	0.54	20.9	53	738	
PDR 1429 UW Stockpile Area.txt	6/20/2017	10:16:47 AM	0115250009	6/20/2017	7:16:47 AM	12	0.46	21.6	52	738	
PDR 1429 UW Stockpile Area.txt	6/20/2017	10:31:47 AM	0115250009	6/20/2017	7:16:47 AM	13	0.48	22.5	49	738	
PDR 1429 UW Stockpile Area.txt	6/20/2017	10:46:47 AM	0115250009	6/20/2017	7:16:47 AM	14	-0.04	22.4	47	738	
PDR 1429 UW Stockpile Area.txt	6/20/2017	11:01:47 AM	0115250009	6/20/2017	7:16:47 AM	15	0.09	22.7	48	738	
PDR 1429 UW Stockpile Area.txt	6/20/2017	11:16:47 AM	0115250009	6/20/2017	7:16:47 AM	16	-0.06	23.5	46	738	
PDR 1429 UW Stockpile Area.txt	6/20/2017	11:31:47 AM	0115250009	6/20/2017	7:16:47 AM	17	0.49	24.1	44	738	
PDR 1429 UW Stockpile Area.txt	6/20/2017	11:46:47 AM	0115250009	6/20/2017	7:16:47 AM	18	0.51	24.4	45	738	
PDR 1429 UW Stockpile Area.txt	6/20/2017	12:01:47 PM	0115250009	6/20/2017	7:16:47 AM	19	0.5	24.7	44	738	
PDR 1429 UW Stockpile Area.txt	6/20/2017	12:16:47 PM	0115250009	6/20/2017	7:16:47 AM	20	0.84	24.9	42	738	
PDR 1429 UW Stockpile Area.txt	6/20/2017	12:31:47 PM	0115250009	6/20/2017	7:16:47 AM	21	0.19	24.9	43	738	
PDR 1429 UW Stockpile Area.txt	6/20/2017	12:46:47 PM	0115250009	6/20/2017	7:16:47 AM	22	0.25	25.3	41	738	
PDR 1429 UW Stockpile Area.txt	6/20/2017	1:01:47 PM	0115250009	6/20/2017	7:16:47 AM	23	0.33	25.4	42	738	
PDR 1429 UW Stockpile Area.txt	6/20/2017	1:16:47 PM	0115250009	6/20/2017	7:16:47 AM	24	0.14	26.2	41	738	
PDR 1429 UW Stockpile Area.txt	6/20/2017	1:31:47 PM	0115250009	6/20/2017	7:16:47 AM	25	0.3	25.5	40	738	
PDR 1429 UW Stockpile Area.txt	6/20/2017	1:46:47 PM	0115250009	6/20/2017	7:16:47 AM	26	0.14	24.9	43	738	
PDR 1429 UW Stockpile Area.txt	6/20/2017	2:01:47 PM	0115250009	6/20/2017	7:16:47 AM	27	0.07	24.5	43	738	
PDR 1429 UW Stockpile Area.txt	6/20/2017	2:16:47 PM	0115250009	6/20/2017	7:16:47 AM	28	0.22	25.3	42	738	
PDR 1429 UW Stockpile Area.txt	6/20/2017	2:31:47 PM	0115250009	6/20/2017	7:16:47 AM	29	0.02	26.4	38	738	
PDR 801 DW Tennis Court.txt	6/20/2017	7:19:38 AM	0115249188	6/20/2017	7:18:38 AM	1	-0.17	17.3	76	736	
PDR 801 DW Tennis Court.txt	6/20/2017	7:20:38 AM	0115249188	6/20/2017	7:18:38 AM	2	-0.26	17.3	76	736	
PDR 801 DW Tennis Court.txt	6/20/2017	7:21:38 AM	0115249188	6/20/2017	7:18:38 AM	3	-0.37	17.4	76	736	
PDR 801 DW Tennis Court.txt	6/20/2017	7:22:38 AM	0115249188	6/20/2017	7:18:38 AM	4	1.42	17.4	76	736	
PDR 801 DW Tennis Court.txt	6/20/2017	7:23:38 AM	0115249188	6/20/2017	7:18:38 AM	5	0.58	17.5	76	736	
PDR 801 DW Tennis Court.txt	6/20/2017	7:24:38 AM	0115249188	6/20/2017	7:18:38 AM	6	0.23	17.6	76	736	
PDR 801 DW Tennis Court.txt	6/20/2017	7:25:38 AM	0115249188	6/20/2017	7:18:38 AM	7	0.33	17.7	73	736	
PDR 801 DW Tennis Court.txt	6/20/2017	7:26:38 AM	0115249188	6/20/2017	7:18:38 AM	8	1.07	17.8	71	736	
PDR 801 DW Tennis Court.txt	6/20/2017	7:27:38 AM	0115249188	6/20/2017	7:18:38 AM	9	0.5	17.8	71	736	
PDR 801 DW Tennis Court.txt	6/20/2017	7:28:38 AM	0115249188	6/20/2017	7:18:38 AM	10	1.95	17.8	70	736	
PDR 801 DW Tennis Court.txt	6/20/2017	7:29:38 AM	0115249188	6/20/2017	7:18:38 AM	11	1.28	17.8	70	736	
PDR 801 DW Tennis Court.txt	6/20/2017	7:30:38 AM	0115249188	6/20/2017	7:18:38 AM	12	0.46	17.8	71	736	
PDR 801 DW Tennis Court.txt	6/20/2017	7:31:38 AM	0115249188	6/20/2017	7:18:38 AM	13	1.12	17.9	71	736	
PDR 801 DW Tennis Court.txt	6/20/2017	7:32:38 AM	0115249188	6/20/2017	7:18:38 AM	14	1.19	17.9	71	736	
PDR 801 DW Tennis Court.txt	6/20/2017	7:33:38 AM	0115249188	6/20/2017	7:18:38 AM	15	4.55	17.9	70	736	
PDR 801 DW Tennis Court.txt	6/20/2017	7:34:38 AM	0115249188	6/20/2017	7:18:38 AM	16	2.02	17.9	70	736	
PDR 801 DW Tennis Court.txt	6/20/2017	7:35:38 AM	0115249188	6/20/2017	7:18:38 AM	17	2.3	17.9	69	736	
PDR 801 DW Tennis Court.txt	6/20/2017	7:36:38 AM	0115249188	6/20/2017	7:18:38 AM	18	5.86	17.9	70	736	
PDR 801 DW Tennis Court.txt	6/20/2017	7:37:38 AM	0115249188	6/20/2017	7:18:38 AM	19	1.49	17.9	70	736	
PDR 801 DW Tennis Court.txt	6/20/2017	7:38:38 AM	0115249188	6/20/2017	7:18:38 AM	20	0.79	17.8	71	736	
PDR 801 DW Tennis Court.txt	6/20/2017	7:39:38 AM	0115249188	6/20/2017	7:18:38 AM	21	0.62	17.8	73	736	
PDR 801 DW Tennis Court.txt	6/20/2017	7:40:38 AM	0115249188	6/20/2017	7:18:38 AM	22	0.37	17.8	74	736	
PDR 801 DW Tennis Court.txt	6/20/2017	7:41:38 AM	0115249188	6/20/2017	7:18:38 AM	23	0.75	17.9	73	736	
PDR 801 DW Tennis Court.txt	6/20/2017	7:42:38 AM	0115249188	6/20/2017	7:18:38 AM	24	0.68	17.9	71	736	
PDR 801 DW Tennis Court.txt	6/20/2017	7:43:38 AM	0115249188	6/20/2017	7:18:38 AM	25	1.24	17.8	71	736	
PDR 801 DW Tennis Court.txt	6/20/2017	7:44:38 AM	0115249188	6/20/2017	7:18:38 AM	26	0.81	17.8	72	736	
PDR 801 DW Tennis Court.txt	6/20/2017	7:45:38 AM	0115249188	6/20/2017	7:18:38 AM	27	0.91	17.8	73	736	
PDR 801 DW Tennis Court.txt	6/20/2017	7:46:38 AM	0115249188	6/20/2017	7:18:38 AM	28	0.84	17.8	72	736	
PDR 801 DW Tennis Court.txt	6/20/2017	7:47:38 AM	0115249188	6/20/2017	7:18:38 AM	29	0.98	17.7	72	736	
PDR 801 DW Tennis Court.txt	6/20/2017	7:48:38 AM	0115249188	6/20/2017	7:18:38 AM	30	0.72	17.7	72	736	
PDR 801 DW Tennis Court.txt	6/20/2017	7:49:38 AM	0115249188	6/20/2017	7:18:38 AM	31	0.7	17.7	73	736	
PDR 801 DW Tennis Court.txt	6/20/2017	7:50:38 AM	0115249188	6/20/2017	7:18:38 AM	32	0.28	17.6	73	736	
PDR 801 DW Tennis Court.txt	6/20/2017	7:51:38 AM	0115249188	6/20/2017	7:18:38 AM	33	1.48	17.6	74	736	
PDR 801 DW Tennis Court.txt	6/20/2017	7:52:38 AM	0115249188	6/20/2017	7:18:38 AM	34	0.92	17.6	74	736	
PDR 801 DW Tennis Court.txt	6/20/2017	7:53:38 AM	0115249188	6/20/2017	7:18:38 AM	35	0.64	17.6	74	736	
PDR 801 DW Tennis Court.txt	6/20/2017	7:54:38 AM	0115249188	6/20/2017	7:18:38 AM	36	0.62	17.6	74	736	
PDR 801 DW Tennis Court.txt	6/20/2017	7:55:38 AM	0115249188	6/20/2017	7:18:38 AM	37	0.88	17.5	74	736	
PDR 801 DW Tennis Court.txt	6/20/2017	7:56:38 AM	0115249188	6/20/2017	7:18:38 AM	38	0.67	17.5	72	736	
PDR 801 DW Tennis Court.txt	6/20/2017	7:57:38 AM	0115249188	6/20/2017	7:18:38 AM	39	0.52	17.5	72	736	
PDR 801 DW Tennis Court.txt	6/20/2017	7:58:38 AM	0115249188	6/20/2017	7:18:38 AM	40	0.82	17.5	73	736	
PDR 801 DW Tennis Court.txt	6/20/2017	7:59:38 AM	0115249188	6/20/2017	7:18:38 AM	41	0.53	17.5	73	736	
PDR 801 DW Tennis Court.txt	6/20/2017	8:00:38 AM	0115249188	6/20/2017	7:18:38 AM	42	0.7	17.5	71	736	
PDR 801 DW Tennis Court.txt	6/20/2017	8:01:38 AM	0115249188	6/20/2017	7:18:38 AM	43	0.72	17.5	70	736	
PDR 801 DW Tennis Court.txt	6/20/2017	8:02:38 AM	0115249188	6/20/2017	7:18:38 AM	44	0.89	17.5	70	736	
PDR 801 DW Tennis Court.txt	6/20/2017	8:03:38 AM	0115249188	6/20/2017	7:18:38 AM	45	1.11	17.5	71	736	
PDR 801 DW Tennis Court.txt	6/20/2017	8:04:38 AM	0115249188	6/20/2017	7:18:38 AM	46	0.79	17.5	71	736	
PDR 801 DW Tennis Court.txt	6/20/2017	8:05:38 AM	0115249188	6/20/2017	7:18:38 AM	47	0.99	17.5	72	736	
PDR 801 DW Tennis Court.txt	6/20/2017	8:06:38 AM	0115249188	6/20/2017	7:18:38 AM	48	0.82	17.5	74	736	
PDR 801 DW Tennis Court.txt	6/20/2017	8:07:38 AM	0115249188	6/20/2017	7:18:38 AM	49	1.14	17.5	74	736	
PDR 801 DW Tennis Court.txt	6/20/2017	8:08:38 AM	0115249188	6/20/2017	7:18:38 AM	50	0.61	17.5	72	736	
PDR 801 DW Tennis Court.txt	6/20/2017	8:09:38 AM	0115249188	6/20/2017	7:18:38 AM	51	0.95	17.6	71	736	
PDR 801 DW Tennis Court.txt	6/20/2017	8:10:38 AM	0115249188	6/20/2017	7:18:38 AM	52	0.95	17.6	72	736	
PDR 801 DW Tennis Court.txt	6/20/2017	8:11:38 AM	0115249188	6/20/2017	7:18:38 AM	53	1.32	17.6	71	736	
PDR 801 DW Tennis Court.txt	6/20/2017	8:12:38 AM	0115249188	6/20/2017	7:18:38 AM	54	1.6	17.6	71	736	
PDR 801 DW Tennis Court.txt	6/20/2017	8:13:38 AM	0115249188	6/20/2017	7:18:38 AM	55	0.85	17.6	71	736	
PDR 801 DW Tennis Court.txt	6/20/2017	8:14:38 AM	0115249188	6/20/2017	7:18:38 AM	56	0.95	17.6	71	736	

Summary of CAMP Monitoring

Beech and Bonaparte

Former Sperry Remington Site - North Portion
Elmira, New York

Unit Location	Record Date	Record Time	Unit Serial Number	Start Date	Start Time	Record #	Dust Concentration in µg/m^3	Temp	RHumidity	AtmoPressure in mm/Hg	Notes
PDR 801 DW Tennis Court.txt	6/20/2017	8:15:38 AM	0115249188	6/20/2017	7:18:38 AM	57	1.04	17.6	71	736	
PDR 801 DW Tennis Court.txt	6/20/2017	8:16:38 AM	0115249188	6/20/2017	7:18:38 AM	58	1.13	17.6	70	736	
PDR 801 DW Tennis Court.txt	6/20/2017	8:17:38 AM	0115249188	6/20/2017	7:18:38 AM	59	1.19	17.7	69	736	
PDR 801 DW Tennis Court.txt	6/20/2017	8:18:38 AM	0115249188	6/20/2017	7:18:38 AM	60	1.41	17.7	69	736	
PDR 801 DW Tennis Court.txt	6/20/2017	8:19:38 AM	0115249188	6/20/2017	7:18:38 AM	61	1.8	17.7	69	736	
PDR 801 DW Tennis Court.txt	6/20/2017	8:20:38 AM	0115249188	6/20/2017	7:18:38 AM	62	1.45	17.7	69	736	
PDR 801 DW Tennis Court.txt	6/20/2017	8:21:38 AM	0115249188	6/20/2017	7:18:38 AM	63	1.39	17.8	70	736	
PDR 801 DW Tennis Court.txt	6/20/2017	8:22:38 AM	0115249188	6/20/2017	7:18:38 AM	64	1.21	17.9	70	736	
PDR 801 DW Tennis Court.txt	6/20/2017	8:23:38 AM	0115249188	6/20/2017	7:18:38 AM	65	1.23	18	69	736	
PDR 801 DW Tennis Court.txt	6/20/2017	8:24:38 AM	0115249188	6/20/2017	7:18:38 AM	66	1.16	18.1	69	736	
PDR 801 DW Tennis Court.txt	6/20/2017	8:25:38 AM	0115249188	6/20/2017	7:18:38 AM	67	1.51	18.2	68	736	
PDR 801 DW Tennis Court.txt	6/20/2017	8:26:38 AM	0115249188	6/20/2017	7:18:38 AM	68	1.09	18.4	67	736	
PDR 801 DW Tennis Court.txt	6/20/2017	8:27:38 AM	0115249188	6/20/2017	7:18:38 AM	69	1.1	18.5	66	736	
PDR 801 DW Tennis Court.txt	6/20/2017	8:28:38 AM	0115249188	6/20/2017	7:18:38 AM	70	0.84	18.7	66	736	
PDR 801 DW Tennis Court.txt	6/20/2017	8:29:38 AM	0115249188	6/20/2017	7:18:38 AM	71	1.24	18.9	66	736	
PDR 801 DW Tennis Court.txt	6/20/2017	8:30:38 AM	0115249188	6/20/2017	7:18:38 AM	72	1.12	19	65	736	
PDR 801 DW Tennis Court.txt	6/20/2017	8:31:38 AM	0115249188	6/20/2017	7:18:38 AM	73	1.11	19.2	65	736	
PDR 801 DW Tennis Court.txt	6/20/2017	8:32:38 AM	0115249188	6/20/2017	7:18:38 AM	74	2.36	19.4	64	736	
PDR 801 DW Tennis Court.txt	6/20/2017	8:33:38 AM	0115249188	6/20/2017	7:18:38 AM	75	1.57	19.5	63	736	
PDR 801 DW Tennis Court.txt	6/20/2017	8:34:38 AM	0115249188	6/20/2017	7:18:38 AM	76	1	19.7	63	736	
PDR 801 DW Tennis Court.txt	6/20/2017	8:35:38 AM	0115249188	6/20/2017	7:18:38 AM	77	1.36	19.9	63	736	
PDR 801 DW Tennis Court.txt	6/20/2017	8:36:38 AM	0115249188	6/20/2017	7:18:38 AM	78	1.69	20	63	736	
PDR 801 DW Tennis Court.txt	6/20/2017	8:37:38 AM	0115249188	6/20/2017	7:18:38 AM	79	2.12	20.2	61	736	
PDR 801 DW Tennis Court.txt	6/20/2017	8:38:38 AM	0115249188	6/20/2017	7:18:38 AM	80	2.21	20.3	61	736	
PDR 801 DW Tennis Court.txt	6/20/2017	8:39:38 AM	0115249188	6/20/2017	7:18:38 AM	81	1.65	20.5	61	736	
PDR 801 DW Tennis Court.txt	6/20/2017	8:40:38 AM	0115249188	6/20/2017	7:18:38 AM	82	1.53	20.7	61	736	
PDR 801 DW Tennis Court.txt	6/20/2017	8:41:38 AM	0115249188	6/20/2017	7:18:38 AM	83	2.06	20.9	60	736	
PDR 801 DW Tennis Court.txt	6/20/2017	8:42:38 AM	0115249188	6/20/2017	7:18:38 AM	84	1.76	21	59	736	
PDR 801 DW Tennis Court.txt	6/20/2017	8:43:38 AM	0115249188	6/20/2017	7:18:38 AM	85	2.27	21.2	58	736	
PDR 801 DW Tennis Court.txt	6/20/2017	8:44:38 AM	0115249188	6/20/2017	7:18:38 AM	86	5.65	21.3	57	736	
PDR 801 DW Tennis Court.txt	6/20/2017	8:45:38 AM	0115249188	6/20/2017	7:18:38 AM	87	2.51	21.4	57	736	
PDR 801 DW Tennis Court.txt	6/20/2017	8:46:38 AM	0115249188	6/20/2017	7:18:38 AM	88	2.71	21.6	57	736	
PDR 801 DW Tennis Court.txt	6/20/2017	8:47:38 AM	0115249188	6/20/2017	7:18:38 AM	89	3.34	21.7	55	736	
PDR 801 DW Tennis Court.txt	6/20/2017	8:48:38 AM	0115249188	6/20/2017	7:18:38 AM	90	4.26	21.7	56	736	
PDR 801 DW Tennis Court.txt	6/20/2017	8:49:38 AM	0115249188	6/20/2017	7:18:38 AM	91	7.8	21.8	57	736	
PDR 801 DW Tennis Court.txt	6/20/2017	8:50:38 AM	0115249188	6/20/2017	7:18:38 AM	92	3.68	21.8	56	736	
PDR 801 DW Tennis Court.txt	6/20/2017	8:51:38 AM	0115249188	6/20/2017	7:18:38 AM	93	6.51	21.8	55	736	
PDR 801 DW Tennis Court.txt	6/20/2017	8:52:38 AM	0115249188	6/20/2017	7:18:38 AM	94	7.2	21.8	55	736	
PDR 801 DW Tennis Court.txt	6/20/2017	8:53:38 AM	0115249188	6/20/2017	7:18:38 AM	95	4.66	21.8	55	736	
PDR 801 DW Tennis Court.txt	6/20/2017	8:54:38 AM	0115249188	6/20/2017	7:18:38 AM	96	8.17	21.8	55	736	
PDR 801 DW Tennis Court.txt	6/20/2017	8:55:38 AM	0115249188	6/20/2017	7:18:38 AM	97	5.27	21.7	55	736	
PDR 801 DW Tennis Court.txt	6/20/2017	8:56:38 AM	0115249188	6/20/2017	7:18:38 AM	98	4.51	21.7	55	736	
PDR 801 DW Tennis Court.txt	6/20/2017	8:57:38 AM	0115249188	6/20/2017	7:18:38 AM	99	3.16	21.6	55	736	
PDR 801 DW Tennis Court.txt	6/20/2017	8:58:38 AM	0115249188	6/20/2017	7:18:38 AM	100	2.25	21.5	55	736	
PDR 801 DW Tennis Court.txt	6/20/2017	8:59:38 AM	0115249188	6/20/2017	7:18:38 AM	101	3.39	21.5	55	736	
PDR 801 DW Tennis Court.txt	6/20/2017	9:00:38 AM	0115249188	6/20/2017	7:18:38 AM	102	6.66	21.4	55	736	
PDR 801 DW Tennis Court.txt	6/20/2017	9:01:38 AM	0115249188	6/20/2017	7:18:38 AM	103	9.26	21.3	55	736	
PDR 801 DW Tennis Court.txt	6/20/2017	9:02:38 AM	0115249188	6/20/2017	7:18:38 AM	104	3.73	21.3	54	736	
PDR 801 DW Tennis Court.txt	6/20/2017	9:03:38 AM	0115249188	6/20/2017	7:18:38 AM	105	2.29	21.2	55	736	
PDR 801 DW Tennis Court.txt	6/20/2017	9:04:38 AM	0115249188	6/20/2017	7:18:38 AM	106	2.01	21.1	55	736	
PDR 801 DW Tennis Court.txt	6/20/2017	9:05:38 AM	0115249188	6/20/2017	7:18:38 AM	107	1.51	21	55	736	
PDR 801 DW Tennis Court.txt	6/20/2017	9:06:38 AM	0115249188	6/20/2017	7:18:38 AM	108	2.82	21	56	736	
PDR 801 DW Tennis Court.txt	6/20/2017	9:07:38 AM	0115249188	6/20/2017	7:18:38 AM	109	2.1	20.9	56	736	
PDR 801 DW Tennis Court.txt	6/20/2017	9:08:38 AM	0115249188	6/20/2017	7:18:38 AM	110	2.66	20.9	56	736	
PDR 801 DW Tennis Court.txt	6/20/2017	9:09:38 AM	0115249188	6/20/2017	7:18:38 AM	111	2.25	20.9	56	736	
PDR 801 DW Tennis Court.txt	6/20/2017	9:10:38 AM	0115249188	6/20/2017	7:18:38 AM	112	2.17	20.8	57	736	
PDR 801 DW Tennis Court.txt	6/20/2017	9:11:38 AM	0115249188	6/20/2017	7:18:38 AM	113	1.93	20.8	56	736	
PDR 801 DW Tennis Court.txt	6/20/2017	9:12:38 AM	0115249188	6/20/2017	7:18:38 AM	114	2.58	20.8	56	736	
PDR 801 DW Tennis Court.txt	6/20/2017	9:13:38 AM	0115249188	6/20/2017	7:18:38 AM	115	2.3	20.7	56	736	
PDR 801 DW Tennis Court.txt	6/20/2017	9:14:38 AM	0115249188	6/20/2017	7:18:38 AM	116	2.57	20.6	56	736	
PDR 801 DW Tennis Court.txt	6/20/2017	9:15:38 AM	0115249188	6/20/2017	7:18:38 AM	117	2.23	20.6	56	736	
PDR 801 DW Tennis Court.txt	6/20/2017	9:16:38 AM	0115249188	6/20/2017	7:18:38 AM	118	2.49	20.6	56	736	
PDR 801 DW Tennis Court.txt	6/20/2017	9:17:38 AM	0115249188	6/20/2017	7:18:38 AM	119	2.01	20.5	57	736	
PDR 801 DW Tennis Court.txt	6/20/2017	9:18:38 AM	0115249188	6/20/2017	7:18:38 AM	120	2.77	20.5	57	736	
PDR 801 DW Tennis Court.txt	6/20/2017	9:19:38 AM	0115249188	6/20/2017	7:18:38 AM	121	2.64	20.5	57	736	
PDR 801 DW Tennis Court.txt	6/20/2017	9:20:38 AM	0115249188	6/20/2017	7:18:38 AM	122	5.02	20.5	58	736	
PDR 801 DW Tennis Court.txt	6/20/2017	9:21:38 AM	0115249188	6/20/2017	7:18:38 AM	123	5.86	20.5	58	736	
PDR 801 DW Tennis Court.txt	6/20/2017	9:22:38 AM	0115249188	6/20/2017	7:18:38 AM	124	2.09	20.5	57	736	
PDR 801 DW Tennis Court.txt	6/20/2017	9:23:38 AM	0115249188	6/20/2017	7:18:38 AM	125	2.11	20.5	58	736	
PDR 801 DW Tennis Court.txt	6/20/2017	9:24:38 AM	0115249188	6/20/2017	7:18:38 AM	126	1.18	20.6	58	736	
PDR 801 DW Tennis Court.txt	6/20/2017	9:25:38 AM	0115249188	6/20/2017	7:18:38 AM	127	3.05	20.8	58	736	
PDR 801 DW Tennis Court.txt	6/20/2017	9:26:38 AM	0115249188	6/20/2017	7:18:38 AM	128	3.87	20.9	58	736	
PDR 801 DW Tennis Court.txt	6/20/2017	9:27:38 AM	0115249188	6/20/2017	7:18:38 AM	129	3.82	21.1	58	736	
PDR 801 DW Tennis Court.txt	6/20/2017	9:28:38 AM	0115249188	6/20/2017	7:18:38 AM	130	2.29	21.3	58	736	
PDR 801 DW Tennis Court.txt	6/20/2017	9:29:38 AM	0115249188	6/20/2017	7:18:38 AM	131	1.65	21.5	58	736	
PDR 801 DW Tennis Court.txt	6/20/2017	9:30:38 AM	0115249188	6/20/2017	7:18:38 AM	132	1.73	21.7	57	736	
PDR 801 DW Tennis Court.txt	6/20/2017	9:31:38 AM	0115249188	6/20/2017	7:18:38 AM	133	2.51	21.9	57	736	
PDR 801 DW Tennis Court.txt	6/20/2017	9:32:38 AM	0115249188	6/20/2017	7:18:38 AM	134	1.66	22.1	55	736	
PDR 801 DW Tennis Court.txt	6/20/2017	9:33:38 AM	0115249188	6/20/2017	7:18:38 AM	135	6.42	22.3	56	736	
PDR 801 DW Tennis Court.txt	6/20/2017	9:34:38 AM	0115249188	6/20/2017	7:18:38 AM	136	2.28	22.6	56	736	
PDR 801 DW Tennis Court.txt	6/20/2017	9:35:38 AM	0115249188	6/20/2017	7:18:38 AM	137	2.07	22.8	54	736	
PDR 801 DW Tennis Court.txt	6/20/2017	9:36:38 AM	0115249188	6/20/2017	7:18:38 AM	138	2.12	23	54	736	
PDR 801 DW Tennis Court.txt	6/20/2017	9:37:38 AM	0115249188	6/20/2017	7:18:38 AM	139	2.71	23.2	52	736	
PDR 801 DW Tennis Court.txt	6/20/2017	9:38:38 AM	0115249188	6/20/2017	7:18:38 AM	140	1.91	23.4	52	736	
PDR 801 DW Tennis Court.txt	6/20/2017	9:39:38 AM	0115249188	6/20/2017	7:18:38 AM	141	2.89	23.5	51	736	
PDR 801 DW Tennis Court.txt	6/20/2017	9:40:38 AM	0115249188	6/20/2017	7:18:38 AM	142	6.67	23.7	50	736	
PDR 801 DW Tennis Court.txt	6/20/2017	9:41:38 AM	0115249188	6/20/2017	7:18:38 AM	143	3.18	23.8	50	736	
PDR 801 DW Tennis Court.txt	6/20/2017	9:42:38 AM	0115249188	6/20/2017	7:18:38 AM	144	2.6	23.9	49	736	
PDR 801 DW Tennis Court.txt	6/20/2017	9:43:38 AM	0115249188	6/20/2017	7:18:38 AM	145	3.57	24	47	736	
PDR 801 DW Tennis Court.txt	6/20/2017	9:44:38 AM	0115249188	6/20/2017	7:18:38 AM	146	2.8	24.1	48	736	
PDR 801 DW Tennis Court.txt	6/20/2017	9:45:38 AM	0115249188	6/20/2017	7:18:38 AM	147	6.66	24.2	46	736	
PDR 801 DW Tennis Court.txt	6/20/2017	9:46:38 AM	0115249188	6/20/2017	7:18:38 AM	148	7.44	24.3	46	736	
PDR 801 DW Tennis Court.txt	6/20/2017	9:47:38 AM	0115249188	6/20/2017	7:18:38 AM	149	8.45	24.4	46	736	
PDR 801 DW Tennis Court.txt	6/20/2017	9:48:38 AM	0115249188	6/20/2017	7:18:38 AM	150	3.73	24.5	46	736	
PDR 801 DW Tennis Court.txt	6/20/2017	9:49:38 AM	0115249188	6/20/2017	7:18:38 AM	151	3.5	24.5	45	736	
PDR 801 DW Tennis Court.txt	6/20/2017	9:50:38 AM	0115249188	6/20/2017	7:18:38 AM	152	1.97	24.6	45	736	
PDR 801 DW Tennis Court.txt	6/20/2017	9:51:38 AM	0115249188	6/20/2017	7:18:38 AM	153	8.72	24.7	46	736	
PDR 801 DW Tennis Court.txt	6/20/2017	9:52:38 AM	0115249188	6/20/2017	7:18:38 AM	154	2.8	24.8	45	736	
PDR 801 DW Tennis Court.txt	6/20/2017	9:53:38 AM	0115249188	6/20/2017	7:18:38 AM	155	1.67	24.9	45	736	
PDR 801 DW Tennis Court.txt	6/20/2017	9:54:38 AM	0115249188	6/20/2017	7:18:38 AM	156	1.69	25.1	45	736	
PDR 801 DW Tennis Court.txt	6/20/2017	9:55:38 AM	0115249188	6/20/2017	7:18:38 AM	157	9.08	25.2	45	736	
PDR 801 DW Tennis Court.txt	6/20/2017	9:56:38 AM	0115249188	6/20/2017	7:18:38 AM	158	3.36	25.3	43	736	
PDR 801 DW Tennis Court.txt	6/20/2017	9:57:38 AM	0115249188	6/20/2017	7:18:38 AM	159	2.93	25.4	42	736	
PDR 801 DW Tennis Court.txt	6/20/2017	9:58:38 AM	0115249188	6/20/2017	7:18:38 AM	160	5.61	25.5	42	736	
PDR 801 DW Tennis Court.txt	6/20/2017	9:59:38 AM	0115249188	6/20/2017	7:18:38 AM	161	3.25	25.5	42	736	
PDR 801 DW Tennis Court.txt	6/20/2017	10:00:38 AM	0115249188	6/20/2017	7:18:38 AM	162	2.48	25.5	42	736	
PDR 801 DW Tennis Court.txt	6/20/2017	10:01:38 AM	0115249188	6/20/2017	7:18:38 AM	163	7.46	25.5	42	736	
PDR 801 DW Tennis Court.txt	6/20/2017	10:02:38 AM	0115249188	6/20/2017	7:18:38 AM	164	5.86	25.6	41	736	
PDR 801 DW Tennis Court.txt	6/20/2017	10:03:38 AM	0115249188	6/20/2017	7:18:38 AM	165	2.74	25.6	42	736	
PDR 801 DW Tennis Court.txt	6/20/2017	10:04:38 AM	0115249188	6/20/2017	7:18:38 AM	166	3.45	25.7	43	736	
PDR 801 DW Tennis Court.txt	6/20/2017	10:05:38 AM	0115249188	6/20/2017	7:18:38 AM	167	2.56	25.8	43	736	
PDR 801 DW Tennis Court.txt	6/20/2017	10:06:38 AM	0115249188	6/20/2017	7:18:38 AM	168	3.04	26	41	736	
PDR 801 DW Tennis Court.txt	6/20/2017	10:07:38 AM	0115249188	6/20/2017	7:18:38 AM	169	3.32	26.1	40	736	
PDR 801 DW Tennis Court.txt	6/20/2017	10:08:38 AM	0115249188	6/20/2017	7:18:38 AM	170	3.21	26.3	41	736	
PDR 801 DW Tennis Court.txt	6/20/2017	10:09:38 AM	0115249188	6/20/2017	7:18:38 AM	171	3.43	26.4	41	736	
PDR 801 DW Tennis Court.txt	6/20/2017	10:10:38 AM	0115249188	6/20/2017	7:18:38 AM	172	3.77	26.6	39	736	
PDR 801 DW Tennis Court.txt	6/20/2017	10:11:38 AM	0115249188	6/20/2017	7:18:38 AM	173	3.19	26.7	39	736	
PDR 801 DW Tennis Court.txt	6/20/2017	10:12:38 AM	0115249188	6/20/2017	7:18:38 AM	174	3.18	26.9	39	736	
PDR 801 DW Tennis Court.txt	6/20/2017	10:13:38 AM	0115249188	6/20/2017	7:18:38 AM	175	3.04	27	39	736	
PDR 801 DW Tennis Court.txt	6/20/2017	10:14:38 AM	0115249188	6/20/2017	7:18:38 AM	176	3.84	27.1	40	736	
PDR 801 DW Tennis Court.txt	6/20/2017	10:15:38 AM	0115249188	6/20/2017	7:18:38 AM	177	4.82	27.2	39	736	
PDR 801 DW Tennis Court.txt	6/20/2017	10:16:38 AM	0115249188	6/20/2017	7:18:38 AM	178	4.61	27.4	38	736	
PDR 801 DW Tennis Court.txt	6/20/2017	10:17:38 AM	0115249188	6/20/2017	7:18:38 AM	179	5.37	27.5	38	736	
PDR 801 DW Tennis Court.txt	6/20/2017	10:18:38 AM	0115249188	6/20/2017	7:18:38 AM	180	5.46	27.6	37	736	
PDR 801 DW Tennis Court.txt	6/20/2017	10:19:38 AM	0115249188	6/20/2017	7:18:38 AM	181	4.83	27.6	38	736	
PDR 801 DW Tennis Court.txt	6/20/2017	10:20:38 AM	0115249188	6/20/2017	7:18:38 AM	182	4.21	27.7	38	736	
PDR 801 DW Tennis Court.txt	6/20/2017	10:21:38 AM	0115249188	6/20/2017	7:18:38 AM	183	3.85	27.8	37	736	
PDR 801 DW Tennis Court.txt	6/20/2017	10:22:38 AM	0115249188	6/20/2017	7:18:38 AM	184	13.45	27.8	36	736	

Summary of CAMP Monitoring

Beech and Bonaparte

Former Sperry Remington Site - North Portion
Elmira, New York

Unit Location	Record Date	Record Time	Unit Serial Number	Start Date	Start Time	Record #	Dust Concentration in µg/m^3	Temp	RHumidity	AtmoPressure in mm/Hg	Notes
PDR 801 DW Tennis Court.txt	6/20/2017	10:23:38 AM	0115249188	6/20/2017	7:18:38 AM	185	4.06	27.8	36	736	
PDR 801 DW Tennis Court.txt	6/20/2017	10:24:38 AM	0115249188	6/20/2017	7:18:38 AM	186	7.29	27.8	35	736	
PDR 801 DW Tennis Court.txt	6/20/2017	10:25:38 AM	0115249188	6/20/2017	7:18:38 AM	187	4.04	27.8	35	736	
PDR 801 DW Tennis Court.txt	6/20/2017	10:26:38 AM	0115249188	6/20/2017	7:18:38 AM	188	12.01	27.8	36	736	
PDR 801 DW Tennis Court.txt	6/20/2017	10:27:38 AM	0115249188	6/20/2017	7:18:38 AM	189	3.21	27.7	36	736	
PDR 801 DW Tennis Court.txt	6/20/2017	10:28:38 AM	0115249188	6/20/2017	7:18:38 AM	190	4.08	27.7	36	736	
PDR 801 DW Tennis Court.txt	6/20/2017	10:29:38 AM	0115249188	6/20/2017	7:18:38 AM	191	4.46	27.6	36	736	
PDR 801 DW Tennis Court.txt	6/20/2017	10:30:38 AM	0115249188	6/20/2017	7:18:38 AM	192	3.39	27.5	36	736	
PDR 801 DW Tennis Court.txt	6/20/2017	10:31:38 AM	0115249188	6/20/2017	7:18:38 AM	193	3.26	27.5	37	736	
PDR 801 DW Tennis Court.txt	6/20/2017	10:32:38 AM	0115249188	6/20/2017	7:18:38 AM	194	9.63	27.4	37	736	
PDR 801 DW Tennis Court.txt	6/20/2017	10:33:38 AM	0115249188	6/20/2017	7:18:38 AM	195	8.06	27.4	37	736	
PDR 801 DW Tennis Court.txt	6/20/2017	10:34:38 AM	0115249188	6/20/2017	7:18:38 AM	196	4.35	27.3	36	736	
PDR 801 DW Tennis Court.txt	6/20/2017	10:35:38 AM	0115249188	6/20/2017	7:18:38 AM	197	3.6	27.3	36	736	
PDR 801 DW Tennis Court.txt	6/20/2017	10:36:38 AM	0115249188	6/20/2017	7:18:38 AM	198	3.85	27.2	36	736	
PDR 801 DW Tennis Court.txt	6/20/2017	10:37:38 AM	0115249188	6/20/2017	7:18:38 AM	199	6.84	27	37	736	
PDR 801 DW Tennis Court.txt	6/20/2017	10:38:38 AM	0115249188	6/20/2017	7:18:38 AM	200	18.59	27	37	736	
PDR 801 DW Tennis Court.txt	6/20/2017	10:39:38 AM	0115249188	6/20/2017	7:18:38 AM	201	9.59	26.9	36	736	
PDR 801 DW Tennis Court.txt	6/20/2017	10:40:38 AM	0115249188	6/20/2017	7:18:38 AM	202	5.09	26.7	36	736	
PDR 801 DW Tennis Court.txt	6/20/2017	10:41:38 AM	0115249188	6/20/2017	7:18:38 AM	203	6.58	26.6	37	736	
PDR 801 DW Tennis Court.txt	6/20/2017	10:42:38 AM	0115249188	6/20/2017	7:18:38 AM	204	6.2	26.5	38	736	
PDR 801 DW Tennis Court.txt	6/20/2017	10:43:38 AM	0115249188	6/20/2017	7:18:38 AM	205	7.81	26.4	38	736	
PDR 801 DW Tennis Court.txt	6/20/2017	10:44:38 AM	0115249188	6/20/2017	7:18:38 AM	206	3.42	26.3	38	736	
PDR 801 DW Tennis Court.txt	6/20/2017	10:45:38 AM	0115249188	6/20/2017	7:18:38 AM	207	3.28	26.2	38	736	
PDR 801 DW Tennis Court.txt	6/20/2017	10:46:38 AM	0115249188	6/20/2017	7:18:38 AM	208	4.15	26.1	38	736	
PDR 801 DW Tennis Court.txt	6/20/2017	10:47:38 AM	0115249188	6/20/2017	7:18:38 AM	209	3.32	26.1	39	736	
PDR 801 DW Tennis Court.txt	6/20/2017	10:48:38 AM	0115249188	6/20/2017	7:18:38 AM	210	6.43	26	38	736	
PDR 801 DW Tennis Court.txt	6/20/2017	10:49:38 AM	0115249188	6/20/2017	7:18:38 AM	211	3.6	26	38	736	
PDR 801 DW Tennis Court.txt	6/20/2017	10:50:38 AM	0115249188	6/20/2017	7:18:38 AM	212	6.7	26	39	736	
PDR 801 DW Tennis Court.txt	6/20/2017	10:51:38 AM	0115249188	6/20/2017	7:18:38 AM	213	4.96	25.9	39	736	
PDR 801 DW Tennis Court.txt	6/20/2017	10:52:38 AM	0115249188	6/20/2017	7:18:38 AM	214	4.32	25.9	39	736	
PDR 801 DW Tennis Court.txt	6/20/2017	10:53:38 AM	0115249188	6/20/2017	7:18:38 AM	215	6.9	26	39	736	
PDR 801 DW Tennis Court.txt	6/20/2017	10:54:38 AM	0115249188	6/20/2017	7:18:38 AM	216	4.17	26	38	736	
PDR 801 DW Tennis Court.txt	6/20/2017	10:55:38 AM	0115249188	6/20/2017	7:18:38 AM	217	6.67	26.1	39	736	
PDR 801 DW Tennis Court.txt	6/20/2017	10:56:38 AM	0115249188	6/20/2017	7:18:38 AM	218	3.34	26.2	39	736	
PDR 801 DW Tennis Court.txt	6/20/2017	10:57:38 AM	0115249188	6/20/2017	7:18:38 AM	219	3.88	26.3	38	736	
PDR 801 DW Tennis Court.txt	6/20/2017	10:58:38 AM	0115249188	6/20/2017	7:18:38 AM	220	3.35	26.4	37	736	
PDR 801 DW Tennis Court.txt	6/20/2017	10:59:38 AM	0115249188	6/20/2017	7:18:38 AM	221	2.87	26.4	38	736	
PDR 801 DW Tennis Court.txt	6/20/2017	11:00:38 AM	0115249188	6/20/2017	7:18:38 AM	222	3.83	26.4	38	736	
PDR 801 DW Tennis Court.txt	6/20/2017	11:01:38 AM	0115249188	6/20/2017	7:18:38 AM	223	3.23	26.4	40	736	
PDR 801 DW Tennis Court.txt	6/20/2017	11:02:38 AM	0115249188	6/20/2017	7:18:38 AM	224	4.86	26.6	40	736	
PDR 801 DW Tennis Court.txt	6/20/2017	11:03:38 AM	0115249188	6/20/2017	7:18:38 AM	225	4.18	26.7	39	736	
PDR 801 DW Tennis Court.txt	6/20/2017	11:04:38 AM	0115249188	6/20/2017	7:18:38 AM	226	5.94	26.9	39	736	
PDR 801 DW Tennis Court.txt	6/20/2017	11:05:38 AM	0115249188	6/20/2017	7:18:38 AM	227	2.92	27	37	736	
PDR 801 DW Tennis Court.txt	6/20/2017	11:06:38 AM	0115249188	6/20/2017	7:18:38 AM	228	7.04	27.2	37	736	
PDR 801 DW Tennis Court.txt	6/20/2017	11:07:38 AM	0115249188	6/20/2017	7:18:38 AM	229	12.7	27.3	37	736	
PDR 801 DW Tennis Court.txt	6/20/2017	11:08:38 AM	0115249188	6/20/2017	7:18:38 AM	230	4.34	27.4	35	736	
PDR 801 DW Tennis Court.txt	6/20/2017	11:09:38 AM	0115249188	6/20/2017	7:18:38 AM	231	7.31	27.5	35	736	
PDR 801 DW Tennis Court.txt	6/20/2017	11:10:38 AM	0115249188	6/20/2017	7:18:38 AM	232	6.53	27.6	35	736	
PDR 801 DW Tennis Court.txt	6/20/2017	11:11:38 AM	0115249188	6/20/2017	7:18:38 AM	233	4.58	27.6	34	736	
PDR 801 DW Tennis Court.txt	6/20/2017	11:12:38 AM	0115249188	6/20/2017	7:18:38 AM	234	4.63	27.6	35	736	
PDR 801 DW Tennis Court.txt	6/20/2017	11:13:38 AM	0115249188	6/20/2017	7:18:38 AM	235	5.53	27.6	34	736	
PDR 801 DW Tennis Court.txt	6/20/2017	11:14:38 AM	0115249188	6/20/2017	7:18:38 AM	236	9.33	27.7	34	736	
PDR 801 DW Tennis Court.txt	6/20/2017	11:15:38 AM	0115249188	6/20/2017	7:18:38 AM	237	3.73	27.7	34	736	
PDR 801 DW Tennis Court.txt	6/20/2017	11:16:38 AM	0115249188	6/20/2017	7:18:38 AM	238	3.57	27.8	35	736	
PDR 801 DW Tennis Court.txt	6/20/2017	11:17:38 AM	0115249188	6/20/2017	7:18:38 AM	239	3.76	27.9	36	736	
PDR 801 DW Tennis Court.txt	6/20/2017	11:18:38 AM	0115249188	6/20/2017	7:18:38 AM	240	3.55	28	36	736	
PDR 801 DW Tennis Court.txt	6/20/2017	11:19:38 AM	0115249188	6/20/2017	7:18:38 AM	241	4.5	28.1	37	736	
PDR 801 DW Tennis Court.txt	6/20/2017	11:20:38 AM	0115249188	6/20/2017	7:18:38 AM	242	3.46	28.3	36	736	
PDR 801 DW Tennis Court.txt	6/20/2017	11:21:38 AM	0115249188	6/20/2017	7:18:38 AM	243	7.64	28.4	35	736	
PDR 801 DW Tennis Court.txt	6/20/2017	11:22:38 AM	0115249188	6/20/2017	7:18:38 AM	244	5.22	28.6	34	736	
PDR 801 DW Tennis Court.txt	6/20/2017	11:23:38 AM	0115249188	6/20/2017	7:18:38 AM	245	6.56	28.7	33	736	
PDR 801 DW Tennis Court.txt	6/20/2017	11:24:38 AM	0115249188	6/20/2017	7:18:38 AM	246	4.58	28.8	33	736	
PDR 801 DW Tennis Court.txt	6/20/2017	11:25:38 AM	0115249188	6/20/2017	7:18:38 AM	247	6.88	28.9	32	736	
PDR 801 DW Tennis Court.txt	6/20/2017	11:26:38 AM	0115249188	6/20/2017	7:18:38 AM	248	3.06	28.9	31	736	
PDR 801 DW Tennis Court.txt	6/20/2017	11:27:38 AM	0115249188	6/20/2017	7:18:38 AM	249	2.9	28.9	31	736	
PDR 801 DW Tennis Court.txt	6/20/2017	11:28:38 AM	0115249188	6/20/2017	7:18:38 AM	250	4.42	29	32	736	
PDR 801 DW Tennis Court.txt	6/20/2017	11:29:38 AM	0115249188	6/20/2017	7:18:38 AM	251	3.3	29	32	736	
PDR 801 DW Tennis Court.txt	6/20/2017	11:30:38 AM	0115249188	6/20/2017	7:18:38 AM	252	3.35	29	32	736	
PDR 801 DW Tennis Court.txt	6/20/2017	11:31:38 AM	0115249188	6/20/2017	7:18:38 AM	253	2.76	29	32	736	
PDR 801 DW Tennis Court.txt	6/20/2017	11:32:38 AM	0115249188	6/20/2017	7:18:38 AM	254	3.36	29	33	736	
PDR 801 DW Tennis Court.txt	6/20/2017	11:33:38 AM	0115249188	6/20/2017	7:18:38 AM	255	3.02	29	32	736	
PDR 801 DW Tennis Court.txt	6/20/2017	11:34:38 AM	0115249188	6/20/2017	7:18:38 AM	256	3.73	29	31	736	
PDR 801 DW Tennis Court.txt	6/20/2017	11:35:38 AM	0115249188	6/20/2017	7:18:38 AM	257	3.02	29	31	736	
PDR 801 DW Tennis Court.txt	6/20/2017	11:36:38 AM	0115249188	6/20/2017	7:18:38 AM	258	4.57	28.9	32	736	
PDR 801 DW Tennis Court.txt	6/20/2017	11:37:38 AM	0115249188	6/20/2017	7:18:38 AM	259	2.95	28.9	32	736	
PDR 801 DW Tennis Court.txt	6/20/2017	11:38:38 AM	0115249188	6/20/2017	7:18:38 AM	260	3.23	28.9	32	736	
PDR 801 DW Tennis Court.txt	6/20/2017	11:39:38 AM	0115249188	6/20/2017	7:18:38 AM	261	3.71	28.9	33	736	
PDR 801 DW Tennis Court.txt	6/20/2017	11:40:38 AM	0115249188	6/20/2017	7:18:38 AM	262	2.8	28.9	33	736	
PDR 801 DW Tennis Court.txt	6/20/2017	11:41:38 AM	0115249188	6/20/2017	7:18:38 AM	263	2.9	29	32	736	
PDR 801 DW Tennis Court.txt	6/20/2017	11:42:38 AM	0115249188	6/20/2017	7:18:38 AM	264	2.85	29	31	736	
PDR 801 DW Tennis Court.txt	6/20/2017	11:43:38 AM	0115249188	6/20/2017	7:18:38 AM	265	3.16	29.1	32	736	
PDR 801 DW Tennis Court.txt	6/20/2017	11:44:38 AM	0115249188	6/20/2017	7:18:38 AM	266	3.13	29.2	32	736	
PDR 801 DW Tennis Court.txt	6/20/2017	11:45:38 AM	0115249188	6/20/2017	7:18:38 AM	267	3.36	29.2	31	736	
PDR 801 DW Tennis Court.txt	6/20/2017	11:46:38 AM	0115249188	6/20/2017	7:18:38 AM	268	3.91	29.2	31	736	
PDR 801 DW Tennis Court.txt	6/20/2017	11:47:38 AM	0115249188	6/20/2017	7:18:38 AM	269	2.98	29.3	33	736	
PDR 801 DW Tennis Court.txt	6/20/2017	11:48:38 AM	0115249188	6/20/2017	7:18:38 AM	270	2.9	29.3	32	736	
PDR 801 DW Tennis Court.txt	6/20/2017	11:49:38 AM	0115249188	6/20/2017	7:18:38 AM	271	3.01	29.4	31	736	
PDR 801 DW Tennis Court.txt	6/20/2017	11:50:38 AM	0115249188	6/20/2017	7:18:38 AM	272	3.36	29.4	31	736	
PDR 801 DW Tennis Court.txt	6/20/2017	11:51:38 AM	0115249188	6/20/2017	7:18:38 AM	273	2.87	29.5	31	736	
PDR 801 DW Tennis Court.txt	6/20/2017	11:52:38 AM	0115249188	6/20/2017	7:18:38 AM	274	4.37	29.5	31	736	
PDR 801 DW Tennis Court.txt	6/20/2017	11:53:38 AM	0115249188	6/20/2017	7:18:38 AM	275	2.83	29.6	31	736	
PDR 801 DW Tennis Court.txt	6/20/2017	11:54:38 AM	0115249188	6/20/2017	7:18:38 AM	276	2.6	29.7	31	736	
PDR 801 DW Tennis Court.txt	6/20/2017	11:55:38 AM	0115249188	6/20/2017	7:18:38 AM	277	2.8	29.8	32	736	
PDR 801 DW Tennis Court.txt	6/20/2017	11:56:38 AM	0115249188	6/20/2017	7:18:38 AM	278	2.76	29.8	31	736	
PDR 801 DW Tennis Court.txt	6/20/2017	11:57:38 AM	0115249188	6/20/2017	7:18:38 AM	279	2.62	29.9	31	736	
PDR 801 DW Tennis Court.txt	6/20/2017	11:58:38 AM	0115249188	6/20/2017	7:18:38 AM	280	2.92	30	31	736	
PDR 801 DW Tennis Court.txt	6/20/2017	11:59:38 AM	0115249188	6/20/2017	7:18:38 AM	281	3.12	30	31	736	
PDR 801 DW Tennis Court.txt	6/20/2017	12:00:38 PM	0115249188	6/20/2017	7:18:38 AM	282	4.47	30.1	31	736	
PDR 801 DW Tennis Court.txt	6/20/2017	12:01:38 PM	0115249188	6/20/2017	7:18:38 AM	283	3.48	30.2	31	736	
PDR 801 DW Tennis Court.txt	6/20/2017	12:02:38 PM	0115249188	6/20/2017	7:18:38 AM	284	2.56	30.3	29	736	
PDR 801 DW Tennis Court.txt	6/20/2017	12:03:38 PM	0115249188	6/20/2017	7:18:38 AM	285	2.82	30.3	30	736	
PDR 801 DW Tennis Court.txt	6/20/2017	12:04:38 PM	0115249188	6/20/2017	7:18:38 AM	286	3.02	30.3	31	736	
PDR 801 DW Tennis Court.txt	6/20/2017	12:05:38 PM	0115249188	6/20/2017	7:18:38 AM	287	3.64	30.3	30	736	
PDR 801 DW Tennis Court.txt	6/20/2017	12:06:38 PM	0115249188	6/20/2017	7:18:38 AM	288	3.76	30.3	30	736	
PDR 801 DW Tennis Court.txt	6/20/2017	12:07:38 PM	0115249188	6/20/2017	7:18:38 AM	289	3.54	30.3	29	736	
PDR 801 DW Tennis Court.txt	6/20/2017	12:08:38 PM	0115249188	6/20/2017	7:18:38 AM	290	3.44	30.2	29	736	
PDR 801 DW Tennis Court.txt	6/20/2017	12:09:38 PM	0115249188	6/20/2017	7:18:38 AM	291	3	30	29	736	
PDR 801 DW Tennis Court.txt	6/20/2017	12:10:38 PM	0115249188	6/20/2017	7:18:38 AM	292	3.35	29.9	29	736	
PDR 801 DW Tennis Court.txt	6/20/2017	12:11:38 PM	0115249188	6/20/2017	7:18:38 AM	293	4.46	29.8	30	736	
PDR 801 DW Tennis Court.txt	6/20/2017	12:12:38 PM	0115249188	6/20/2017	7:18:38 AM	294	3.48	29.7	30	736	
PDR 801 DW Tennis Court.txt	6/20/2017	12:13:38 PM	0115249188	6/20/2017	7:18:38 AM	295	3.18	29.6	30	736	
PDR 801 DW Tennis Court.txt	6/20/2017	12:14:38 PM	0115249188	6/20/2017	7:18:38 AM	296	3.65	29.5	30	736	
PDR 801 DW Tennis Court.txt	6/20/2017	12:15:38 PM	0115249188	6/20/2017	7:18:38 AM	297	4.46	29.4	31	736	
PDR 801 DW Tennis Court.txt	6/20/2017	12:16:38 PM	0115249188	6/20/2017	7:18:38 AM	298	3.16	29.3	31	736	
PDR 801 DW Tennis Court.txt	6/20/2017	12:17:38 PM	0115249188	6/20/2017	7:18:38 AM	299	2.89	29.2	30	736	
PDR 801 DW Tennis Court.txt	6/20/2017	12:18:38 PM	0115249188	6/20/2017	7:18:38 AM	300	2.6	29.1	31	736	
PDR 801 DW Tennis Court.txt	6/20/2017	12:19:38 PM	0115249188	6/20/2017	7:18:38 AM	301	2.68	29	31	736	
PDR 801 DW Tennis Court.txt	6/20/2017	12:20:38 PM	0115249188	6/20/2017	7:18:38 AM	302	2.8	28.8	31	736	
PDR 801 DW Tennis Court.txt	6/20/2017	12:21:38 PM	0115249188	6/20/2017	7:18:38 AM	303	3.38	28.7	31	736	
PDR 801 DW Tennis Court.txt	6/20/2017	12:22:38 PM	0115249188	6/20/2017	7:18:38 AM	304	2.66	28.7	33	736	
PDR 801 DW Tennis Court.txt	6/20/2017	12:23:38 PM	0115249188	6/20/2017	7:18:38 AM	305	2.99	28.7	33	736	
PDR 801 DW Tennis Court.txt	6/20/2017	12:24:38 PM	0115249188	6/20/2017	7:18:38 AM	306	3.25	28.8	33	736	
PDR 801 DW Tennis Court.txt	6/20/2017	12:25:38 PM	0115249188	6/20/2017	7:18:38 AM	307	2.95	28.9	33	736	
PDR 801 DW Tennis Court.txt	6/20/2017	12:26:38 PM	0115249188	6/20/2017	7:18:38 AM	308	3.64	29	34	736	
PDR 801 DW Tennis Court.txt	6/20/2017	12:27:38 PM	0115249188	6/20/2017	7:18:38 AM	309	3.56	29.1	32	736	
PDR 801 DW Tennis Court.txt	6/20/2017	12:28:38 PM	0115249188	6/20/2017	7:18:38 AM	310	3.05	29.2	32	736	
PDR 801 DW Tennis Court.txt	6/20/2017	12:29:38 PM	0115249188	6/20/2017	7:18:38 AM	311	4.23	29.2	31	736	
PDR 801 DW Tennis Court.txt	6/20/2017	12:30:38 PM	0115249188	6/20/2017	7:18:38 AM	312	2.99	29.2	32	736	

Summary of CAMP Monitoring

Beech and Bonaparte

Former Sperry Remington Site - North Portion
Elmira, New York

Unit Location	Record Date	Record Time	Unit Serial Number	Start Date	Start Time	Record #	Dust Concentration in µg/m^3	Temp	RHumidity	AtmoPressure in mm/Hg	Notes
PDR 801 DW Tennis Court.txt	6/20/2017	12:31:38 PM	0115249188	6/20/2017	7:18:38 AM	313	2.74	29.2	31	736	
PDR 801 DW Tennis Court.txt	6/20/2017	12:32:38 PM	0115249188	6/20/2017	7:18:38 AM	314	3.14	29.2	32	736	
PDR 801 DW Tennis Court.txt	6/20/2017	12:33:38 PM	0115249188	6/20/2017	7:18:38 AM	315	2.61	29.2	31	736	
PDR 801 DW Tennis Court.txt	6/20/2017	12:34:38 PM	0115249188	6/20/2017	7:18:38 AM	316	2.71	29.2	31	736	
PDR 801 DW Tennis Court.txt	6/20/2017	12:35:38 PM	0115249188	6/20/2017	7:18:38 AM	317	2.58	29.1	31	736	
PDR 801 DW Tennis Court.txt	6/20/2017	12:36:38 PM	0115249188	6/20/2017	7:18:38 AM	318	2.99	29.1	31	736	
PDR 801 DW Tennis Court.txt	6/20/2017	12:37:38 PM	0115249188	6/20/2017	7:18:38 AM	319	2.77	29	31	736	
PDR 801 DW Tennis Court.txt	6/20/2017	12:38:38 PM	0115249188	6/20/2017	7:18:38 AM	320	3.56	28.9	31	736	
PDR 801 DW Tennis Court.txt	6/20/2017	12:39:38 PM	0115249188	6/20/2017	7:18:38 AM	321	2.65	28.8	30	736	
PDR 801 DW Tennis Court.txt	6/20/2017	12:40:38 PM	0115249188	6/20/2017	7:18:38 AM	322	6.3	28.7	30	736	
PDR 801 DW Tennis Court.txt	6/20/2017	12:41:38 PM	0115249188	6/20/2017	7:18:38 AM	323	3.15	28.6	31	736	
PDR 801 DW Tennis Court.txt	6/20/2017	12:42:38 PM	0115249188	6/20/2017	7:18:38 AM	324	3.02	28.4	31	736	
PDR 801 DW Tennis Court.txt	6/20/2017	12:43:38 PM	0115249188	6/20/2017	7:18:38 AM	325	5.25	28.3	33	736	
PDR 801 DW Tennis Court.txt	6/20/2017	12:44:38 PM	0115249188	6/20/2017	7:18:38 AM	326	4.36	28.3	33	736	
PDR 801 DW Tennis Court.txt	6/20/2017	12:45:38 PM	0115249188	6/20/2017	7:18:38 AM	327	2.94	28.3	32	736	
PDR 801 DW Tennis Court.txt	6/20/2017	12:46:38 PM	0115249188	6/20/2017	7:18:38 AM	328	2.68	28.4	32	736	
PDR 801 DW Tennis Court.txt	6/20/2017	12:47:38 PM	0115249188	6/20/2017	7:18:38 AM	329	3.31	28.4	31	736	
PDR 801 DW Tennis Court.txt	6/20/2017	12:48:38 PM	0115249188	6/20/2017	7:18:38 AM	330	3.47	28.3	32	736	
PDR 801 DW Tennis Court.txt	6/20/2017	12:49:38 PM	0115249188	6/20/2017	7:18:38 AM	331	3.22	28.3	31	736	
PDR 801 DW Tennis Court.txt	6/20/2017	12:50:38 PM	0115249188	6/20/2017	7:18:38 AM	332	3.98	28.2	31	736	
PDR 801 DW Tennis Court.txt	6/20/2017	12:51:38 PM	0115249188	6/20/2017	7:18:38 AM	333	3.17	28.2	32	736	
PDR 801 DW Tennis Court.txt	6/20/2017	12:52:38 PM	0115249188	6/20/2017	7:18:38 AM	334	2.76	28.1	33	736	
PDR 801 DW Tennis Court.txt	6/20/2017	12:53:38 PM	0115249188	6/20/2017	7:18:38 AM	335	2.8	28.1	35	736	
PDR 801 DW Tennis Court.txt	6/20/2017	12:54:38 PM	0115249188	6/20/2017	7:18:38 AM	336	3.64	28.2	35	736	
PDR 801 DW Tennis Court.txt	6/20/2017	12:55:38 PM	0115249188	6/20/2017	7:18:38 AM	337	2.47	28.3	33	736	
PDR 801 DW Tennis Court.txt	6/20/2017	12:56:38 PM	0115249188	6/20/2017	7:18:38 AM	338	2.71	28.3	32	736	
PDR 801 DW Tennis Court.txt	6/20/2017	12:57:38 PM	0115249188	6/20/2017	7:18:38 AM	339	3.39	28.4	32	736	
PDR 801 DW Tennis Court.txt	6/20/2017	12:58:38 PM	0115249188	6/20/2017	7:18:38 AM	340	3.89	28.4	32	736	
PDR 801 DW Tennis Court.txt	6/20/2017	12:59:38 PM	0115249188	6/20/2017	7:18:38 AM	341	3.53	28.3	32	736	
PDR 801 DW Tennis Court.txt	6/20/2017	1:00:38 PM	0115249188	6/20/2017	7:18:38 AM	342	2.86	28.3	33	736	
PDR 801 DW Tennis Court.txt	6/20/2017	1:01:38 PM	0115249188	6/20/2017	7:18:38 AM	343	2.95	28.3	33	736	
PDR 801 DW Tennis Court.txt	6/20/2017	1:02:38 PM	0115249188	6/20/2017	7:18:38 AM	344	3.17	28.4	33	736	
PDR 801 DW Tennis Court.txt	6/20/2017	1:03:38 PM	0115249188	6/20/2017	7:18:38 AM	345	2.77	28.4	33	736	
PDR 801 DW Tennis Court.txt	6/20/2017	1:04:38 PM	0115249188	6/20/2017	7:18:38 AM	346	2.57	28.5	33	736	
PDR 801 DW Tennis Court.txt	6/20/2017	1:05:38 PM	0115249188	6/20/2017	7:18:38 AM	347	2.85	28.7	33	736	
PDR 801 DW Tennis Court.txt	6/20/2017	1:06:38 PM	0115249188	6/20/2017	7:18:38 AM	348	2.54	28.8	34	736	
PDR 801 DW Tennis Court.txt	6/20/2017	1:07:38 PM	0115249188	6/20/2017	7:18:38 AM	349	3.33	28.9	32	736	
PDR 801 DW Tennis Court.txt	6/20/2017	1:08:38 PM	0115249188	6/20/2017	7:18:38 AM	350	3.34	28.9	32	736	
PDR 801 DW Tennis Court.txt	6/20/2017	1:09:38 PM	0115249188	6/20/2017	7:18:38 AM	351	2.53	29	32	736	
PDR 801 DW Tennis Court.txt	6/20/2017	1:10:38 PM	0115249188	6/20/2017	7:18:38 AM	352	2.94	29	32	736	
PDR 801 DW Tennis Court.txt	6/20/2017	1:11:38 PM	0115249188	6/20/2017	7:18:38 AM	353	3	29	31	736	
PDR 801 DW Tennis Court.txt	6/20/2017	1:12:38 PM	0115249188	6/20/2017	7:18:38 AM	354	3.43	28.9	32	736	
PDR 801 DW Tennis Court.txt	6/20/2017	1:13:38 PM	0115249188	6/20/2017	7:18:38 AM	355	3.29	28.9	32	736	
PDR 801 DW Tennis Court.txt	6/20/2017	1:14:38 PM	0115249188	6/20/2017	7:18:38 AM	356	4.05	28.8	32	736	
PDR 801 DW Tennis Court.txt	6/20/2017	1:15:38 PM	0115249188	6/20/2017	7:18:38 AM	357	3.09	28.6	31	736	
PDR 801 DW Tennis Court.txt	6/20/2017	1:16:38 PM	0115249188	6/20/2017	7:18:38 AM	358	2.97	28.5	31	736	
PDR 801 DW Tennis Court.txt	6/20/2017	1:17:38 PM	0115249188	6/20/2017	7:18:38 AM	359	3.26	28.4	32	736	
PDR 801 DW Tennis Court.txt	6/20/2017	1:18:38 PM	0115249188	6/20/2017	7:18:38 AM	360	3.02	28.2	32	736	
PDR 801 DW Tennis Court.txt	6/20/2017	1:19:38 PM	0115249188	6/20/2017	7:18:38 AM	361	3.22	28.1	32	736	
PDR 801 DW Tennis Court.txt	6/20/2017	1:20:38 PM	0115249188	6/20/2017	7:18:38 AM	362	7.03	27.9	32	736	
PDR 801 DW Tennis Court.txt	6/20/2017	1:21:38 PM	0115249188	6/20/2017	7:18:38 AM	363	3	27.8	33	736	
PDR 801 DW Tennis Court.txt	6/20/2017	1:22:38 PM	0115249188	6/20/2017	7:18:38 AM	364	3.91	27.7	33	736	
PDR 801 DW Tennis Court.txt	6/20/2017	1:23:38 PM	0115249188	6/20/2017	7:18:38 AM	365	3.43	27.5	34	736	
PDR 801 DW Tennis Court.txt	6/20/2017	1:24:38 PM	0115249188	6/20/2017	7:18:38 AM	366	2.9	27.4	34	736	
PDR 801 DW Tennis Court.txt	6/20/2017	1:25:38 PM	0115249188	6/20/2017	7:18:38 AM	367	2.7	27.3	33	736	
PDR 801 DW Tennis Court.txt	6/20/2017	1:26:38 PM	0115249188	6/20/2017	7:18:38 AM	368	16.41	27.2	34	736	
PDR 801 DW Tennis Court.txt	6/20/2017	1:27:38 PM	0115249188	6/20/2017	7:18:38 AM	369	3.08	27	35	736	
PDR 801 DW Tennis Court.txt	6/20/2017	1:28:38 PM	0115249188	6/20/2017	7:18:38 AM	370	2.99	26.9	35	736	
PDR 801 DW Tennis Court.txt	6/20/2017	1:29:38 PM	0115249188	6/20/2017	7:18:38 AM	371	3.02	26.8	35	736	
PDR 801 DW Tennis Court.txt	6/20/2017	1:30:38 PM	0115249188	6/20/2017	7:18:38 AM	372	2.72	26.8	36	736	
PDR 801 DW Tennis Court.txt	6/20/2017	1:31:38 PM	0115249188	6/20/2017	7:18:38 AM	373	2.88	26.7	36	736	
PDR 801 DW Tennis Court.txt	6/20/2017	1:32:38 PM	0115249188	6/20/2017	7:18:38 AM	374	2.86	26.7	36	736	
PDR 801 DW Tennis Court.txt	6/20/2017	1:33:38 PM	0115249188	6/20/2017	7:18:38 AM	375	5.14	26.7	37	736	
PDR 801 DW Tennis Court.txt	6/20/2017	1:34:38 PM	0115249188	6/20/2017	7:18:38 AM	376	3.51	26.7	37	736	
PDR 801 DW Tennis Court.txt	6/20/2017	1:35:38 PM	0115249188	6/20/2017	7:18:38 AM	377	2.82	26.8	36	736	
PDR 801 DW Tennis Court.txt	6/20/2017	1:36:38 PM	0115249188	6/20/2017	7:18:38 AM	378	2.55	26.9	37	736	
PDR 801 DW Tennis Court.txt	6/20/2017	1:37:38 PM	0115249188	6/20/2017	7:18:38 AM	379	2.96	27	37	736	
PDR 801 DW Tennis Court.txt	6/20/2017	1:38:38 PM	0115249188	6/20/2017	7:18:38 AM	380	2.55	27.1	37	736	
PDR 801 DW Tennis Court.txt	6/20/2017	1:39:38 PM	0115249188	6/20/2017	7:18:38 AM	381	2.9	27.3	36	736	
PDR 801 DW Tennis Court.txt	6/20/2017	1:40:38 PM	0115249188	6/20/2017	7:18:38 AM	382	2.87	27.4	35	736	
PDR 801 DW Tennis Court.txt	6/20/2017	1:41:38 PM	0115249188	6/20/2017	7:18:38 AM	383	3.31	27.4	35	736	
PDR 801 DW Tennis Court.txt	6/20/2017	1:42:38 PM	0115249188	6/20/2017	7:18:38 AM	384	2.44	27.5	35	736	
PDR 801 DW Tennis Court.txt	6/20/2017	1:43:38 PM	0115249188	6/20/2017	7:18:38 AM	385	2.74	27.6	35	736	
PDR 801 DW Tennis Court.txt	6/20/2017	1:44:38 PM	0115249188	6/20/2017	7:18:38 AM	386	4.78	27.6	35	736	
PDR 801 DW Tennis Court.txt	6/20/2017	1:45:38 PM	0115249188	6/20/2017	7:18:38 AM	387	3.29	27.6	35	736	
PDR 801 DW Tennis Court.txt	6/20/2017	1:46:38 PM	0115249188	6/20/2017	7:18:38 AM	388	2.94	27.6	35	736	
PDR 801 DW Tennis Court.txt	6/20/2017	1:47:38 PM	0115249188	6/20/2017	7:18:38 AM	389	2.76	27.6	35	736	
PDR 801 DW Tennis Court.txt	6/20/2017	1:48:38 PM	0115249188	6/20/2017	7:18:38 AM	390	2.9	27.6	34	736	
PDR 801 DW Tennis Court.txt	6/20/2017	1:49:38 PM	0115249188	6/20/2017	7:18:38 AM	391	3.05	27.6	35	736	
PDR 801 DW Tennis Court.txt	6/20/2017	1:50:38 PM	0115249188	6/20/2017	7:18:38 AM	392	3.38	27.6	35	736	
PDR 801 DW Tennis Court.txt	6/20/2017	1:51:38 PM	0115249188	6/20/2017	7:18:38 AM	393	2.87	27.5	34	736	
PDR 801 DW Tennis Court.txt	6/20/2017	1:52:38 PM	0115249188	6/20/2017	7:18:38 AM	394	3.38	27.5	34	736	
PDR 801 DW Tennis Court.txt	6/20/2017	1:53:38 PM	0115249188	6/20/2017	7:18:38 AM	395	3.1	27.4	34	736	
PDR 801 DW Tennis Court.txt	6/20/2017	1:54:38 PM	0115249188	6/20/2017	7:18:38 AM	396	2.68	27.4	34	736	
PDR 801 DW Tennis Court.txt	6/20/2017	1:55:38 PM	0115249188	6/20/2017	7:18:38 AM	397	2.76	27.3	34	736	
PDR 801 DW Tennis Court.txt	6/20/2017	1:56:38 PM	0115249188	6/20/2017	7:18:38 AM	398	4.35	27.3	35	736	
PDR 801 DW Tennis Court.txt	6/20/2017	1:57:38 PM	0115249188	6/20/2017	7:18:38 AM	399	2.66	27.3	35	736	
PDR 801 DW Tennis Court.txt	6/20/2017	1:58:38 PM	0115249188	6/20/2017	7:18:38 AM	400	2.45	27.4	36	736	
PDR 801 DW Tennis Court.txt	6/20/2017	1:59:38 PM	0115249188	6/20/2017	7:18:38 AM	401	3.17	27.5	35	736	
PDR 801 DW Tennis Court.txt	6/20/2017	2:00:38 PM	0115249188	6/20/2017	7:18:38 AM	402	2.69	27.5	35	736	
PDR 801 DW Tennis Court.txt	6/20/2017	2:01:38 PM	0115249188	6/20/2017	7:18:38 AM	403	2.51	27.6	35	736	
PDR 801 DW Tennis Court.txt	6/20/2017	2:02:38 PM	0115249188	6/20/2017	7:18:38 AM	404	2.75	27.7	34	736	
PDR 801 DW Tennis Court.txt	6/20/2017	2:03:38 PM	0115249188	6/20/2017	7:18:38 AM	405	2.53	27.8	34	736	
PDR 801 DW Tennis Court.txt	6/20/2017	2:04:38 PM	0115249188	6/20/2017	7:18:38 AM	406	2.47	27.8	34	736	
PDR 801 DW Tennis Court.txt	6/20/2017	2:05:38 PM	0115249188	6/20/2017	7:18:38 AM	407	2.7	27.9	34	736	
PDR 801 DW Tennis Court.txt	6/20/2017	2:06:38 PM	0115249188	6/20/2017	7:18:38 AM	408	2.87	28	34	736	
PDR 801 DW Tennis Court.txt	6/20/2017	2:07:38 PM	0115249188	6/20/2017	7:18:38 AM	409	2.36	28.1	31	736	
PDR 801 DW Tennis Court.txt	6/20/2017	2:08:38 PM	0115249188	6/20/2017	7:18:38 AM	410	2.59	28.1	32	736	
PDR 801 DW Tennis Court.txt	6/20/2017	2:09:38 PM	0115249188	6/20/2017	7:18:38 AM	411	3.31	28.1	31	736	
PDR 801 DW Tennis Court.txt	6/20/2017	2:10:38 PM	0115249188	6/20/2017	7:18:38 AM	412	3.96	28.2	30	736	
PDR 801 DW Tennis Court.txt	6/20/2017	2:11:38 PM	0115249188	6/20/2017	7:18:38 AM	413	2.64	28.2	31	736	
PDR 801 DW Tennis Court.txt	6/20/2017	2:12:38 PM	0115249188	6/20/2017	7:18:38 AM	414	2.7	28.2	31	736	
PDR 801 DW Tennis Court.txt	6/20/2017	2:13:38 PM	0115249188	6/20/2017	7:18:38 AM	415	2.85	28.2	32	736	
PDR 801 DW Tennis Court.txt	6/20/2017	2:14:38 PM	0115249188	6/20/2017	7:18:38 AM	416	2.93	28.2	31	736	
PDR 801 DW Tennis Court.txt	6/20/2017	2:15:38 PM	0115249188	6/20/2017	7:18:38 AM	417	3.75	28.2	31	736	
PDR 801 DW Tennis Court.txt	6/20/2017	2:16:38 PM	0115249188	6/20/2017	7:18:38 AM	418	4.1	28.2	31	736	
PDR 801 DW Tennis Court.txt	6/20/2017	2:17:38 PM	0115249188	6/20/2017	7:18:38 AM	419	2.53	28.2	31	736	
PDR 801 DW Tennis Court.txt	6/20/2017	2:18:38 PM	0115249188	6/20/2017	7:18:38 AM	420	2.95	28.2	32	736	
PDR 801 DW Tennis Court.txt	6/20/2017	2:19:38 PM	0115249188	6/20/2017	7:18:38 AM	421	3.45	28.3	34	736	
PDR 801 DW Tennis Court.txt	6/20/2017	2:20:38 PM	0115249188	6/20/2017	7:18:38 AM	422	2.5	28.3	35	736	
PDR 801 DW Tennis Court.txt	6/20/2017	2:21:38 PM	0115249188	6/20/2017	7:18:38 AM	423	3.41	28.4	33	736	
PDR 801 DW Tennis Court.txt	6/20/2017	2:22:38 PM	0115249188	6/20/2017	7:18:38 AM	424	3.52	28.5	31	736	
PDR 801 DW Tennis Court.txt	6/20/2017	2:23:38 PM	0115249188	6/20/2017	7:18:38 AM	425	3.6	28.5	30	736	
PDR 801 DW Tennis Court.txt	6/20/2017	2:24:38 PM	0115249188	6/20/2017	7:18:38 AM	426	3.96	28.6	30	736	
PDR 801 DW Tennis Court.txt	6/20/2017	2:25:38 PM	0115249188	6/20/2017	7:18:38 AM	427	3.23	28.6	30	736	
PDR 801 DW Tennis Court.txt	6/20/2017	2:26:38 PM	0115249188	6/20/2017	7:18:38 AM	428	2.9	28.6	30	736	
PDR 801 DW Tennis Court.txt	6/20/2017	2:27:38 PM	0115249188	6/20/2017	7:18:38 AM	429	2.39	28.6	30	736	
PDR 801 DW Tennis Court.txt	6/20/2017	2:28:38 PM	0115249188	6/20/2017	7:18:38 AM	430	2.97	28.6	30	736	
PDR 801 DW Tennis Court.txt	6/20/2017	2:29:38 PM	0115249188	6/20/2017	7:18:38 AM	431	3.11	28.6	30	736	
PDR 801 DW Tennis Court.txt	6/20/2017	2:30:38 PM	0115249188	6/20/2017	7:18:38 AM	432	2.41	28.6	30	736	
PDR 801 DW Tennis Court.txt	6/20/2017	2:31:38 PM	0115249188	6/20/2017	7:18:38 AM	433	2.78	28.6	30	736	
PDR 801 DW Tennis Court.txt	6/20/2017	2:32:38 PM	0115249188	6/20/2017	7:18:38 AM	434	3.46	28.6	30	736	
PDR 801 DW Tennis Court.txt	6/20/2017	2:33:38 PM	0115249188	6/20/2017	7:18:38 AM	435	3.66	28.7	31	736	
PDR 801 DW Tennis Court.txt	6/20/2017	2:34:38 PM	0115249188	6/20/2017	7:18:38 AM	436	4.25	28.7	31	736	
PDR 801 DW Tennis Court.txt	6/20/2017	2:35:38 PM	0115249188	6/20/2017	7:18:38 AM	437	2.93	28.8	31	736	
PDR 801 DW Tennis Court.txt	6/20/2017	2:36:38 PM	0115249188	6/20/2017	7:18:38 AM	438	2.57	28.8	30	736	
PDR 801 DW Tennis Court.txt	6/20/2017	2:37:38 PM	0115249188	6/20/2017	7:18:38 AM	439	3.48	28.9	30	736	
PDR 801 DW Tennis Court.txt	6/20/2017	2:38:38 PM	0115249188	6/20/2017	7:18:38 AM	440	2.49	28.9	30	736	

Summary of CAMP Monitoring

Beech and Bonaparte

Former Sperry Remington Site - North Portion
Elmira, New York

Unit Location	Record Date	Record Time	Unit Serial Number	Start Date	Start Time	Record #	Dust Concentration in µg/m^3	Temp	RHumidity	AtmoPressure in mm/Hg	Notes
PDR 801 DW Tennis Court.txt	6/20/2017	2:39:38 PM	0115249188	6/20/2017	7:18:38 AM	441	3.1	29	30	736	
PDR 801 DW Tennis Court.txt	6/20/2017	2:40:38 PM	0115249188	6/20/2017	7:18:38 AM	442	5.85	29	30	736	
PDR 801 DW Tennis Court.txt	6/20/2017	2:41:38 PM	0115249188	6/20/2017	7:18:38 AM	443	3.37	29	30	736	
PDR 801 DW Tennis Court.txt	6/20/2017	2:42:38 PM	0115249188	6/20/2017	7:18:38 AM	444	4.95	29	29	736	
PDR 801 DW Tennis Court.txt	6/20/2017	2:43:38 PM	0115249188	6/20/2017	7:18:38 AM	445	2.86	29	29	736	
PDR 801 DW Tennis Court.txt	6/20/2017	2:44:38 PM	0115249188	6/20/2017	7:18:38 AM	446	3.03	29	29	736	
PDR 801 DW Tennis Court.txt	6/20/2017	2:45:38 PM	0115249188	6/20/2017	7:18:38 AM	447	4.15	28.9	29	736	
PDR 801 DW Tennis Court.txt	6/20/2017	2:46:38 PM	0115249188	6/20/2017	7:18:38 AM	448	4.43	28.9	30	736	
PDR 801 DW Tennis Court.txt	6/20/2017	2:47:38 PM	0115249188	6/20/2017	7:18:38 AM	449	3.09	28.9	30	736	
PDR 801 DW Tennis Court.txt	6/20/2017	2:48:38 PM	0115249188	6/20/2017	7:18:38 AM	450	2.86	28.9	31	736	
PDR 801 DW Tennis Court.txt	6/20/2017	2:49:38 PM	0115249188	6/20/2017	7:18:38 AM	451	3.22	29	31	736	
PDR 801 DW Tennis Court.txt	6/20/2017	2:50:38 PM	0115249188	6/20/2017	7:18:38 AM	452	2.52	29.1	30	736	
PDR 801 DW Tennis Court.txt	6/20/2017	2:51:38 PM	0115249188	6/20/2017	7:18:38 AM	453	3.26	29.1	29	736	
PDR 801 DW Tennis Court.txt	6/20/2017	2:52:38 PM	0115249188	6/20/2017	7:18:38 AM	454	2.82	29.2	30	736	
PDR 801 DW Tennis Court.txt	6/20/2017	2:53:38 PM	0115249188	6/20/2017	7:18:38 AM	455	2.78	29.2	29	736	
PDR 801 DW Tennis Court.txt	6/20/2017	2:54:38 PM	0115249188	6/20/2017	7:18:38 AM	456	2.91	29.3	30	736	
PDR 801 DW Tennis Court.txt	6/20/2017	2:55:38 PM	0115249188	6/20/2017	7:18:38 AM	457	3.18	29.3	30	736	
PDR 801 DW Tennis Court.txt	6/20/2017	2:56:38 PM	0115249188	6/20/2017	7:18:38 AM	458	2.76	29.4	30	736	
PDR 801 DW Tennis Court.txt	6/20/2017	2:57:38 PM	0115249188	6/20/2017	7:18:38 AM	459	3.27	29.4	31	736	
PDR 801 DW Tennis Court.txt	6/20/2017	2:58:38 PM	0115249188	6/20/2017	7:18:38 AM	460	2.73	29.5	30	736	
PDR 801 DW Tennis Court.txt	6/20/2017	2:59:38 PM	0115249188	6/20/2017	7:18:38 AM	461	3.25	29.5	29	736	
PDR 801 DW Tennis Court.txt	6/20/2017	3:00:38 PM	0115249188	6/20/2017	7:18:38 AM	462	3.3	29.4	29	736	
PDR 801 DW Tennis Court.txt	6/20/2017	3:01:38 PM	0115249188	6/20/2017	7:18:38 AM	463	2.62	29.4	30	736	
PDR 801 DW Tennis Court.txt	6/20/2017	3:02:38 PM	0115249188	6/20/2017	7:18:38 AM	464	2.58	29.4	30	736	
PDR 801 DW Tennis Court.txt	6/20/2017	3:03:38 PM	0115249188	6/20/2017	7:18:38 AM	465	3.09	29.3	29	736	
PDR 801 DW Tennis Court.txt	6/20/2017	3:04:38 PM	0115249188	6/20/2017	7:18:38 AM	466	3.34	29.2	28	736	
PDR 801 DW Tennis Court.txt	6/20/2017	3:05:38 PM	0115249188	6/20/2017	7:18:38 AM	467	2.81	29.1	29	736	
PDR 801 DW Tennis Court.txt	6/20/2017	3:06:38 PM	0115249188	6/20/2017	7:18:38 AM	468	3.1	29	29	736	
PDR 801 DW Tennis Court.txt	6/20/2017	3:07:38 PM	0115249188	6/20/2017	7:18:38 AM	469	3.56	29	29	736	
PDR 801 DW Tennis Court.txt	6/20/2017	3:08:38 PM	0115249188	6/20/2017	7:18:38 AM	470	4	28.9	29	736	
PDR 801 DW Tennis Court.txt	6/20/2017	3:09:38 PM	0115249188	6/20/2017	7:18:38 AM	471	3.28	28.8	30	736	
PDR 801 DW Tennis Court.txt	6/20/2017	3:10:38 PM	0115249188	6/20/2017	7:18:38 AM	472	3.57	28.7	29	736	
PDR 801 DW Tennis Court.txt	6/20/2017	3:11:38 PM	0115249188	6/20/2017	7:18:38 AM	473	3.23	28.7	29	736	
PDR 801 DW Tennis Court.txt	6/20/2017	3:12:38 PM	0115249188	6/20/2017	7:18:38 AM	474	3.01	28.6	30	736	
PDR 801 DW Tennis Court.txt	6/20/2017	3:13:38 PM	0115249188	6/20/2017	7:18:38 AM	475	2.75	28.6	30	736	
PDR 801 DW Tennis Court.txt	6/20/2017	3:14:38 PM	0115249188	6/20/2017	7:18:38 AM	476	2.56	28.5	30	736	
PDR 801 DW Tennis Court.txt	6/20/2017	3:15:38 PM	0115249188	6/20/2017	7:18:38 AM	477	2.77	28.5	30	736	
PDR 801 DW Tennis Court.txt	6/20/2017	3:16:38 PM	0115249188	6/20/2017	7:18:38 AM	478	3.27	28.5	31	736	
PDR 801 DW Tennis Court.txt	6/20/2017	3:17:38 PM	0115249188	6/20/2017	7:18:38 AM	479	2.37	28.4	31	736	
PDR 801 DW Tennis Court.txt	6/20/2017	3:18:38 PM	0115249188	6/20/2017	7:18:38 AM	480	2.81	28.4	30	736	
PDR 801 DW Tennis Court.txt	6/20/2017	3:19:38 PM	0115249188	6/20/2017	7:18:38 AM	481	4.65	28.3	31	736	
PDR 801 DW Tennis Court.txt	6/20/2017	3:20:38 PM	0115249188	6/20/2017	7:18:38 AM	482	3.74	28.3	31	736	
PDR 801 DW Tennis Court.txt	6/20/2017	3:21:38 PM	0115249188	6/20/2017	7:18:38 AM	483	4.46	28.2	31	736	
PDR 801 DW Tennis Court.txt	6/20/2017	3:22:38 PM	0115249188	6/20/2017	7:18:38 AM	484	3.77	28.2	31	736	
PDR 801 DW Tennis Court.txt	6/20/2017	3:23:38 PM	0115249188	6/20/2017	7:18:38 AM	485	2.83	28.1	31	736	
PDR 801 DW Tennis Court.txt	6/20/2017	3:24:38 PM	0115249188	6/20/2017	7:18:38 AM	486	3.32	28	31	736	
PDR 801 DW Tennis Court.txt	6/20/2017	3:25:38 PM	0115249188	6/20/2017	7:18:38 AM	487	3.05	27.9	31	736	
PDR 801 DW Tennis Court.txt	6/20/2017	3:26:38 PM	0115249188	6/20/2017	7:18:38 AM	488	3.47	27.8	31	736	
PDR 801 DW Tennis Court.txt	6/20/2017	3:27:38 PM	0115249188	6/20/2017	7:18:38 AM	489	2.8	27.7	31	736	
PDR 801 DW Tennis Court.txt	6/20/2017	3:28:38 PM	0115249188	6/20/2017	7:18:38 AM	490	7.11	27.6	32	736	
PDR 801 DW Tennis Court.txt	6/20/2017	3:29:38 PM	0115249188	6/20/2017	7:18:38 AM	491	6.22	27.4	32	736	
PDR 801 DW Tennis Court.txt	6/20/2017	3:30:38 PM	0115249188	6/20/2017	7:18:38 AM	492	3.53	27.3	34	736	
PDR 818 UW Tennis Court 2 0f 2.txt	6/20/2017	7:31:12 AM	0115249311	6/20/2017	7:16:12 AM	1	3.6	18.6	70	736	
PDR 818 UW Tennis Court 2 0f 2.txt	6/20/2017	7:46:12 AM	0115249311	6/20/2017	7:16:12 AM	2	3.94	19.1	68	738	
PDR 818 UW Tennis Court 2 0f 2.txt	6/20/2017	8:01:12 AM	0115249311	6/20/2017	7:16:12 AM	3	3.6	19.2	66	738	
PDR 818 UW Tennis Court 2 0f 2.txt	6/20/2017	8:16:12 AM	0115249311	6/20/2017	7:16:12 AM	4	3.89	19.3	65	738	
PDR 818 UW Tennis Court 2 0f 2.txt	6/20/2017	8:31:12 AM	0115249311	6/20/2017	7:16:12 AM	5	5.26	20	62	738	
PDR 818 UW Tennis Court 2 0f 2.txt	6/20/2017	8:46:12 AM	0115249311	6/20/2017	7:16:12 AM	6	5.88	21.4	57	738	
PDR 818 UW Tennis Court 2 0f 2.txt	6/20/2017	9:01:12 AM	0115249311	6/20/2017	7:16:12 AM	7	6.89	22.2	54	738	
PDR 818 UW Tennis Court 2 0f 2.txt	6/20/2017	9:16:12 AM	0115249311	6/20/2017	7:16:12 AM	8	6.63	22.1	54	738	
PDR 818 UW Tennis Court 2 0f 2.txt	6/20/2017	9:31:12 AM	0115249311	6/20/2017	7:16:12 AM	9	6.53	22.5	54	738	
PDR 818 UW Tennis Court 2 0f 2.txt	6/20/2017	9:46:12 AM	0115249311	6/20/2017	7:16:12 AM	10	6.8	23.6	50	738	
PDR 818 UW Tennis Court 2 0f 2.txt	6/20/2017	10:01:12 AM	0115249311	6/20/2017	7:16:12 AM	11	7.7	24.7	45	738	
PDR 818 UW Tennis Court 2 0f 2.txt	6/20/2017	10:16:12 AM	0115249311	6/20/2017	7:16:12 AM	12	8.3	25.5	42	738	
PDR 818 UW Tennis Court 2 0f 2.txt	6/20/2017	10:31:12 AM	0115249311	6/20/2017	7:16:12 AM	13	8.37	26.1	40	738	
PDR 818 UW Tennis Court 2 0f 2.txt	6/20/2017	10:46:12 AM	0115249311	6/20/2017	7:16:12 AM	14	8.32	26.1	40	738	
PDR 818 UW Tennis Court 2 0f 2.txt	6/20/2017	11:01:12 AM	0115249311	6/20/2017	7:16:12 AM	15	7.89	26.1	40	738	
PDR 818 UW Tennis Court 2 0f 2.txt	6/20/2017	11:16:12 AM	0115249311	6/20/2017	7:16:12 AM	16	7.9	27	37	738	
PDR 818 UW Tennis Court 2 0f 2.txt	6/20/2017	11:31:12 AM	0115249311	6/20/2017	7:16:12 AM	17	7.67	27.8	35	738	
PDR 818 UW Tennis Court 2 0f 2.txt	6/20/2017	11:46:12 AM	0115249311	6/20/2017	7:16:12 AM	18	7.64	28.2	35	738	
PDR 818 UW Tennis Court 2 0f 2.txt	6/20/2017	12:01:12 PM	0115249311	6/20/2017	7:16:12 AM	19	7.68	28.4	34	738	
PDR 818 UW Tennis Court 2 0f 2.txt	6/20/2017	12:16:12 PM	0115249311	6/20/2017	7:16:12 AM	20	7.56	28.8	34	738	
PDR 818 UW Tennis Court 2 0f 2.txt	6/20/2017	12:31:12 PM	0115249311	6/20/2017	7:16:12 AM	21	7.38	28.4	34	738	
PDR 818 UW Tennis Court 2 0f 2.txt	6/20/2017	12:46:12 PM	0115249311	6/20/2017	7:16:12 AM	22	7.48	28.6	34	738	
PDR 818 UW Tennis Court 2 0f 2.txt	6/20/2017	1:01:12 PM	0115249311	6/20/2017	7:16:12 AM	23	7.48	28.6	33	738	
PDR 818 UW Tennis Court 2 0f 2.txt	6/20/2017	1:16:12 PM	0115249311	6/20/2017	7:16:12 AM	24	7.5	29.2	31	738	
PDR 818 UW Tennis Court 2 0f 2.txt	6/20/2017	1:31:12 PM	0115249311	6/20/2017	7:16:12 AM	25	8.11	28.5	34	738	
PDR 1421 DW NE Corner of Fence.txt	6/21/2017	7:48:43 AM	0115249975	6/21/2017	7:33:43 AM	1	1.38	18.9	60	738	
PDR 1421 DW NE Corner of Fence.txt	6/21/2017	8:03:43 AM	0115249975	6/21/2017	7:33:43 AM	2	-0.77	19.9	56	738	
PDR 1421 DW NE Corner of Fence.txt	6/21/2017	8:18:43 AM	0115249975	6/21/2017	7:33:43 AM	3	-0.9	20.7	52	738	
PDR 1421 DW NE Corner of Fence.txt	6/21/2017	8:33:43 AM	0115249975	6/21/2017	7:33:43 AM	4	-1.63	20.1	57	738	
PDR 1421 DW NE Corner of Fence.txt	6/21/2017	8:48:43 AM	0115249975	6/21/2017	7:33:43 AM	5	6.46	19.3	62	738	
PDR 1421 DW NE Corner of Fence.txt	6/21/2017	9:03:43 AM	0115249975	6/21/2017	7:33:43 AM	6	2.34	19.3	63	738	
PDR 1421 DW NE Corner of Fence.txt	6/21/2017	9:18:43 AM	0115249975	6/21/2017	7:33:43 AM	7	-0.95	20.7	58	738	
PDR 1421 DW NE Corner of Fence.txt	6/21/2017	9:33:43 AM	0115249975	6/21/2017	7:33:43 AM	8	-1.11	22.5	49	738	
PDR 1421 DW NE Corner of Fence.txt	6/21/2017	9:48:43 AM	0115249975	6/21/2017	7:33:43 AM	9	-0.99	23.8	43	738	
PDR 1421 DW NE Corner of Fence.txt	6/21/2017	10:03:43 AM	0115249975	6/21/2017	7:33:43 AM	10	-1	24.3	41	738	
PDR 1421 DW NE Corner of Fence.txt	6/21/2017	10:18:43 AM	0115249975	6/21/2017	7:33:43 AM	11	0.03	25.4	39	738	
PDR 1421 DW NE Corner of Fence.txt	6/21/2017	10:33:43 AM	0115249975	6/21/2017	7:33:43 AM	12	-0.91	25.7	38	738	
PDR 1421 DW NE Corner of Fence.txt	6/21/2017	10:48:43 AM	0115249975	6/21/2017	7:33:43 AM	13	-0.77	25.8	37	738	
PDR 1421 DW NE Corner of Fence.txt	6/21/2017	11:03:43 AM	0115249975	6/21/2017	7:33:43 AM	14	-0.49	25.5	39	738	
PDR 1421 DW NE Corner of Fence.txt	6/21/2017	11:18:43 AM	0115249975	6/21/2017	7:33:43 AM	15	-0.37	25.3	39	738	
PDR 1421 DW NE Corner of Fence.txt	6/21/2017	11:33:43 AM	0115249975	6/21/2017	7:33:43 AM	16	0.05	25.1	40	738	
PDR 1421 DW NE Corner of Fence.txt	6/21/2017	11:48:43 AM	0115249975	6/21/2017	7:33:43 AM	17	-1.18	25.2	38	738	
PDR 1421 DW NE Corner of Fence.txt	6/21/2017	12:03:43 PM	0115249975	6/21/2017	7:33:43 AM	18	-0.97	25.3	38	738	
PDR 1421 DW NE Corner of Fence.txt	6/21/2017	12:18:43 PM	0115249975	6/21/2017	7:33:43 AM	19	-1.06	25.6	37	738	
PDR 1421 DW NE Corner of Fence.txt	6/21/2017	12:33:43 PM	0115249975	6/21/2017	7:33:43 AM	20	-1	25.4	37	738	
PDR 1421 DW NE Corner of Fence.txt	6/21/2017	12:48:43 PM	0115249975	6/21/2017	7:33:43 AM	21	-0.94	25.6	36	738	
PDR 1421 DW NE Corner of Fence.txt	6/21/2017	1:03:43 PM	0115249975	6/21/2017	7:33:43 AM	22	-0.83	26.2	34	738	
PDR 1421 DW NE Corner of Fence.txt	6/21/2017	1:18:43 PM	0115249975	6/21/2017	7:33:43 AM	23	-0.72	26.7	33	738	
PDR 1421 DW NE Corner of Fence.txt	6/21/2017	1:33:43 PM	0115249975	6/21/2017	7:33:43 AM	24	-0.94	26.8	33	738	
PDR 1421 DW NE Corner of Fence.txt	6/21/2017	1:48:43 PM	0115249975	6/21/2017	7:33:43 AM	25	-0.34	27.3	31	738	
PDR 1421 DW NE Corner of Fence.txt	6/21/2017	2:03:43 PM	0115249975	6/21/2017	7:33:43 AM	26	0.62	27.3	30	738	
PDR 1421 DW NE Corner of Fence.txt	6/21/2017	2:18:43 PM	0115249975	6/21/2017	7:33:43 AM	27	-0.34	27.6	31	738	
PDR 1421 DW NE Corner of Fence.txt	6/21/2017	2:33:43 PM	0115249975	6/21/2017	7:33:43 AM	28	-0.23	28.1	30	738	
PDR 1421 DW NE Corner of Fence.txt	6/21/2017	2:48:43 PM	0115249975	6/21/2017	7:33:43 AM	29	-0.68	28.3	29	738	
PDR 1421 DW NE Corner of Fence.txt	6/21/2017	3:03:43 PM	0115249975	6/21/2017	7:33:43 AM	30	-0.62	28.3	29	738	
PDR 1421 DW NE Corner of Fence.txt	6/21/2017	3:18:43 PM	0115249975	6/21/2017	7:33:43 AM	31	-0.45	28.2	28	738	
PDR 1421 DW NE Corner of Fence.txt	6/21/2017	3:33:43 PM	0115249975	6/21/2017	7:33:43 AM	32	-0.4	28.1	28	738	
PDR 1421 DW NE Corner of Fence.txt	6/21/2017	3:48:43 PM	0115249975	6/21/2017	7:33:43 AM	33	-0.88	28.3	28	738	
PDR 1421 DW NE Corner of Fence.txt	6/21/2017	4:03:43 PM	0115249975	6/21/2017	7:33:43 AM	34	-0.63	29.3	27	738	
PDR 1421 DW NE Corner of Fence.txt	6/21/2017	4:18:43 PM	0115249975	6/21/2017	7:33:43 AM	35	-0.1	29.7	27	738	
PDR 1421 DW NE Corner of Fence.txt	6/21/2017	4:33:43 PM	0115249975	6/21/2017	7:33:43 AM	36	-0.15	29.4	27	738	
PDR 1421 DW NE Corner of Fence.txt	6/21/2017	4:48:43 PM	0115249975	6/21/2017	7:33:43 AM	37	1.34	27.9	26	738	
PDR 1429 DW Mid Section of Fence Line.txt	6/21/2017	7:48:59 AM	0115250009	6/21/2017	7:33:59 AM	1	1.8	17.8	66	738	
PDR 1429 DW Mid Section of Fence Line.txt	6/21/2017	8:03:59 AM	0115250009	6/21/2017	7:33:59 AM	2	-0.83	19.3	61	738	
PDR 1429 DW Mid Section of Fence Line.txt	6/21/2017	8:18:59 AM	0115250009	6/21/2017	7:33:59 AM	3	-0.79	20.5	54	738	
PDR 1429 DW Mid Section of Fence Line.txt	6/21/2017	8:33:59 AM	0115250009	6/21/2017	7:33:59 AM	4	-0.52	19.8	59	738	
PDR 1429 DW Mid Section of Fence Line.txt	6/21/2017	8:48:59 AM	0115250009	6/21/2017	7:33:59 AM	5	0.98	18.7	65	738	
PDR 1429 DW Mid Section of Fence Line.txt	6/21/2017	9:03:59 AM	0115250009	6/21/2017	7:33:59 AM	6	-0.07	18.9	64	738	
PDR 1429 DW Mid Section of Fence Line.txt	6/21/2017	9:18:59 AM	0115250009	6/21/2017	7:33:59 AM	7	-0.59	20.8	56	738	
PDR 1429 DW Mid Section of Fence Line.txt	6/21/2017	9:33:59 AM	0115250009	6/21/2017	7:33:59 AM	8	-0.94	23.2	49	738	
PDR 1429 DW Mid Section of Fence Line.txt	6/21/2017	9:48:59 AM	0115250009	6/21/2017	7:33:59 AM	9	-1.03	25.1	43	738	
PDR 1429 DW Mid Section of Fence Line.txt	6/21/2017	10:03:59 AM	0115250009	6/21/2017	7:33:59 AM	10	-1.21	26.2	40	738	
PDR 1429 DW Mid Section of Fence Line.txt	6/21/2017	10:18:59 AM	0115250009	6/21/2017	7:33:59 AM	11	-1.1	27.5	38	738	

Summary of CAMP Monitoring

Beech and Bonaparte

Former Sperry Remington Site - North Portion
Elmira, New York

Unit Location	Record Date	Record Time	Unit Serial Number	Start Date	Start Time	Record #	Dust Concentration in µg/m^3	Temp	RHumidity	AtmoPressure in mm/Hg	Notes
PDR 1429 DW Mid Section of Fence Line.txt	6/21/2017	10:33:59 AM	0115250009	6/21/2017	7:33:59 AM	12	-1.31	28.6	35	738	
PDR 1429 DW Mid Section of Fence Line.txt	6/21/2017	10:48:59 AM	0115250009	6/21/2017	7:33:59 AM	13	-1.52	29.9	34	738	
PDR 1429 DW Mid Section of Fence Line.txt	6/21/2017	11:03:59 AM	0115250009	6/21/2017	7:33:59 AM	14	-1.06	30.2	33	738	
PDR 1429 DW Mid Section of Fence Line.txt	6/21/2017	11:18:59 AM	0115250009	6/21/2017	7:33:59 AM	15	-1.39	30.7	32	738	
PDR 1429 DW Mid Section of Fence Line.txt	6/21/2017	11:33:59 AM	0115250009	6/21/2017	7:33:59 AM	16	-1.47	30.4	34	738	
PDR 1429 DW Mid Section of Fence Line.txt	6/21/2017	11:48:59 AM	0115250009	6/21/2017	7:33:59 AM	17	-1.77	30.9	32	738	
PDR 1429 DW Mid Section of Fence Line.txt	6/21/2017	12:03:59 PM	0115250009	6/21/2017	7:33:59 AM	18	-1.69	31.3	32	738	
PDR 1429 DW Mid Section of Fence Line.txt	6/21/2017	12:18:59 PM	0115250009	6/21/2017	7:33:59 AM	19	-1.57	31.8	30	738	
PDR 1429 DW Mid Section of Fence Line.txt	6/21/2017	12:33:59 PM	0115250009	6/21/2017	7:33:59 AM	20	-1.63	31.1	31	738	
PDR 1429 DW Mid Section of Fence Line.txt	6/21/2017	12:48:59 PM	0115250009	6/21/2017	7:33:59 AM	21	-1.71	31.4	30	738	
PDR 1429 DW Mid Section of Fence Line.txt	6/21/2017	1:03:59 PM	0115250009	6/21/2017	7:33:59 AM	22	-1.69	32.6	27	738	
PDR 1429 DW Mid Section of Fence Line.txt	6/21/2017	1:18:59 PM	0115250009	6/21/2017	7:33:59 AM	23	-1.9	33.4	26	738	
PDR 1429 DW Mid Section of Fence Line.txt	6/21/2017	1:33:59 PM	0115250009	6/21/2017	7:33:59 AM	24	-1.86	32.8	26	738	
PDR 1429 DW Mid Section of Fence Line.txt	6/21/2017	1:48:59 PM	0115250009	6/21/2017	7:33:59 AM	25	-1.47	33.7	26	738	
PDR 1429 DW Mid Section of Fence Line.txt	6/21/2017	2:03:59 PM	0115250009	6/21/2017	7:33:59 AM	26	-1.42	33.9	24	738	
PDR 1429 DW Mid Section of Fence Line.txt	6/21/2017	2:18:59 PM	0115250009	6/21/2017	7:33:59 AM	27	-1.51	34.2	25	738	
PDR 1429 DW Mid Section of Fence Line.txt	6/21/2017	2:33:59 PM	0115250009	6/21/2017	7:33:59 AM	28	-2.17	35.2	23	738	
PDR 1429 DW Mid Section of Fence Line.txt	6/21/2017	2:48:59 PM	0115250009	6/21/2017	7:33:59 AM	29	-2.01	35.9	23	738	
PDR 1429 DW Mid Section of Fence Line.txt	6/21/2017	3:03:59 PM	0115250009	6/21/2017	7:33:59 AM	30	-2.47	36	21	738	
PDR 1429 DW Mid Section of Fence Line.txt	6/21/2017	3:18:59 PM	0115250009	6/21/2017	7:33:59 AM	31	-2.82	35	22	738	
PDR 1429 DW Mid Section of Fence Line.txt	6/21/2017	3:33:59 PM	0115250009	6/21/2017	7:33:59 AM	32	-2.87	33.7	24	738	
PDR 1429 DW Mid Section of Fence Line.txt	6/21/2017	3:48:59 PM	0115250009	6/21/2017	7:33:59 AM	33	-2.79	33.4	25	738	
PDR 1429 DW Mid Section of Fence Line.txt	6/21/2017	4:03:59 PM	0115250009	6/21/2017	7:33:59 AM	34	-3	35.2	23	738	
PDR 1429 DW Mid Section of Fence Line.txt	6/21/2017	4:18:59 PM	0115250009	6/21/2017	7:33:59 AM	35	-2.99	36.3	22	738	
PDR 1429 DW Mid Section of Fence Line.txt	6/21/2017	4:33:59 PM	0115250009	6/21/2017	7:33:59 AM	36	-2.7	35.9	20	738	
PDR 1429 DW Mid Section of Fence Line.txt	6/21/2017	4:48:59 PM	0115250009	6/21/2017	7:33:59 AM	37	-0.93	31.4	24	738	
PDR 1429 DW Mid Section of Fence Line.txt	6/21/2017	5:03:59 PM	0115250009	6/21/2017	7:33:59 AM	38	-1.07	27.9	29	738	
PDR 801 DW Next to Gate.txt	6/21/2017	7:51:39 AM	0115249188	6/21/2017	7:36:39 AM	1	1.24	18.7	60	738	
PDR 801 DW Next to Gate.txt	6/21/2017	8:06:39 AM	0115249188	6/21/2017	7:36:39 AM	2	-0.3	20.2	56	738	
PDR 801 DW Next to Gate.txt	6/21/2017	8:21:39 AM	0115249188	6/21/2017	7:36:39 AM	3	-0.09	20.9	53	738	
PDR 801 DW Next to Gate.txt	6/21/2017	8:36:39 AM	0115249188	6/21/2017	7:36:39 AM	4	1	19.8	57	738	
PDR 801 DW Next to Gate.txt	6/21/2017	8:51:39 AM	0115249188	6/21/2017	7:36:39 AM	5	0.53	18.9	63	738	
PDR 801 DW Next to Gate.txt	6/21/2017	9:06:39 AM	0115249188	6/21/2017	7:36:39 AM	6	0.58	19.1	62	738	
PDR 801 DW Next to Gate.txt	6/21/2017	9:21:39 AM	0115249188	6/21/2017	7:36:39 AM	7	1.02	21.4	55	738	
PDR 801 DW Next to Gate.txt	6/21/2017	9:36:39 AM	0115249188	6/21/2017	7:36:39 AM	8	0.58	23.9	46	738	
PDR 801 DW Next to Gate.txt	6/21/2017	9:51:39 AM	0115249188	6/21/2017	7:36:39 AM	9	1.36	25.8	40	738	
PDR 801 DW Next to Gate.txt	6/21/2017	10:06:39 AM	0115249188	6/21/2017	7:36:39 AM	10	0.62	27	36	738	
PDR 801 DW Next to Gate.txt	6/21/2017	10:21:39 AM	0115249188	6/21/2017	7:36:39 AM	11	0.82	28.7	33	738	
PDR 801 DW Next to Gate.txt	6/21/2017	10:36:39 AM	0115249188	6/21/2017	7:36:39 AM	12	0.46	30	31	738	
PDR 801 DW Next to Gate.txt	6/21/2017	10:51:39 AM	0115249188	6/21/2017	7:36:39 AM	13	0.38	31.3	28	738	
PDR 801 DW Next to Gate.txt	6/21/2017	11:06:39 AM	0115249188	6/21/2017	7:36:39 AM	14	0.74	31.3	28	738	
PDR 801 DW Next to Gate.txt	6/21/2017	11:21:39 AM	0115249188	6/21/2017	7:36:39 AM	15	0.42	31.2	28	738	
PDR 801 DW Next to Gate.txt	6/21/2017	11:36:39 AM	0115249188	6/21/2017	7:36:39 AM	16	0.44	31.1	29	738	
PDR 801 DW Next to Gate.txt	6/21/2017	11:51:39 AM	0115249188	6/21/2017	7:36:39 AM	17	0.4	31.7	28	738	
PDR 801 DW Next to Gate.txt	6/21/2017	12:06:39 PM	0115249188	6/21/2017	7:36:39 AM	18	0.62	32.4	27	738	
PDR 801 DW Next to Gate.txt	6/21/2017	12:21:39 PM	0115249188	6/21/2017	7:36:39 AM	19	0.98	32.6	26	738	
PDR 801 DW Next to Gate.txt	6/21/2017	12:36:39 PM	0115249188	6/21/2017	7:36:39 AM	20	0.49	31.8	26	738	
PDR 801 DW Next to Gate.txt	6/21/2017	12:51:39 PM	0115249188	6/21/2017	7:36:39 AM	21	1.64	31.8	26	738	
PDR 801 DW Next to Gate.txt	6/21/2017	1:06:39 PM	0115249188	6/21/2017	7:36:39 AM	22	2.61	32.9	24	736	
PDR 801 DW Next to Gate.txt	6/21/2017	1:21:39 PM	0115249188	6/21/2017	7:36:39 AM	23	1.82	33.4	23	736	
PDR 801 DW Next to Gate.txt	6/21/2017	1:36:39 PM	0115249188	6/21/2017	7:36:39 AM	24	0.75	32.7	23	736	
PDR 801 DW Next to Gate.txt	6/21/2017	1:51:39 PM	0115249188	6/21/2017	7:36:39 AM	25	2.2	33.3	23	736	
PDR 801 DW Next to Gate.txt	6/21/2017	2:06:39 PM	0115249188	6/21/2017	7:36:39 AM	26	2.48	33	23	736	
PDR 801 DW Next to Gate.txt	6/21/2017	2:21:39 PM	0115249188	6/21/2017	7:36:39 AM	27	1.48	33	23	736	
PDR 801 DW Next to Gate.txt	6/21/2017	2:36:39 PM	0115249188	6/21/2017	7:36:39 AM	28	1.79	33.9	22	736	
PDR 801 DW Next to Gate.txt	6/21/2017	2:51:39 PM	0115249188	6/21/2017	7:36:39 AM	29	0.55	34.4	22	736	
PDR 801 DW Next to Gate.txt	6/21/2017	3:06:39 PM	0115249188	6/21/2017	7:36:39 AM	30	1.32	34.3	21	736	
PDR 801 DW Next to Gate.txt	6/21/2017	3:21:39 PM	0115249188	6/21/2017	7:36:39 AM	31	1.93	33.5	21	736	
PDR 801 DW Next to Gate.txt	6/21/2017	3:36:39 PM	0115249188	6/21/2017	7:36:39 AM	32	0.45	32.4	22	736	
PDR 801 DW Next to Gate.txt	6/21/2017	3:51:39 PM	0115249188	6/21/2017	7:36:39 AM	33	0.49	32	23	736	
PDR 801 DW Next to Gate.txt	6/21/2017	4:06:39 PM	0115249188	6/21/2017	7:36:39 AM	34	0.4	33	23	736	
PDR 801 DW Next to Gate.txt	6/21/2017	4:21:39 PM	0115249188	6/21/2017	7:36:39 AM	35	0.58	33.5	23	736	
PDR 801 DW Next to Gate.txt	6/21/2017	4:36:39 PM	0115249188	6/21/2017	7:36:39 AM	36	1.91	32.8	21	736	
PDR 801 DW Next to Gate.txt	6/21/2017	4:51:39 PM	0115249188	6/21/2017	7:36:39 AM	37	1.66	29.2	24	736	
PDR 801 DW Next to Gate.txt	6/21/2017	5:06:39 PM	0115249188	6/21/2017	7:36:39 AM	38	1.27	26.3	30	736	
PDR 818 UW Light pole Tennis Court.txt	6/21/2017	7:58:16 AM	0115249311	6/21/2017	7:43:16 AM	1	-2.33	20.5	56	738	
PDR 818 UW Light pole Tennis Court.txt	6/21/2017	8:13:16 AM	0115249311	6/21/2017	7:43:16 AM	2	-2.94	21.4	53	738	
PDR 818 UW Light pole Tennis Court.txt	6/21/2017	8:28:16 AM	0115249311	6/21/2017	7:43:16 AM	3	-2.57	21.2	56	738	
PDR 818 UW Light pole Tennis Court.txt	6/21/2017	8:43:16 AM	0115249311	6/21/2017	7:43:16 AM	4	-1.85	20.7	61	740	
PDR 818 UW Light pole Tennis Court.txt	6/21/2017	8:58:16 AM	0115249311	6/21/2017	7:43:16 AM	5	-2.2	20.9	60	740	
PDR 818 UW Light pole Tennis Court.txt	6/21/2017	9:13:16 AM	0115249311	6/21/2017	7:43:16 AM	6	-2.49	22.2	55	740	
PDR 818 UW Light pole Tennis Court.txt	6/21/2017	9:28:16 AM	0115249311	6/21/2017	7:43:16 AM	7	-2.76	23.5	49	740	
PDR 818 UW Light pole Tennis Court.txt	6/21/2017	9:43:16 AM	0115249311	6/21/2017	7:43:16 AM	8	-2.63	23.8	46	740	
PDR 818 UW Light pole Tennis Court.txt	6/21/2017	9:58:16 AM	0115249311	6/21/2017	7:43:16 AM	9	-2.4	23.5	45	738	
PDR 818 UW Light pole Tennis Court.txt	6/21/2017	10:13:16 AM	0115249311	6/21/2017	7:43:16 AM	10	-2.34	23.4	45	738	
PDR 818 UW Light pole Tennis Court.txt	6/21/2017	10:28:16 AM	0115249311	6/21/2017	7:43:16 AM	11	-2.55	24	45	738	
PDR 818 UW Light pole Tennis Court.txt	6/21/2017	10:43:16 AM	0115249311	6/21/2017	7:43:16 AM	12	-2.62	24.4	44	738	
PDR 818 UW Light pole Tennis Court.txt	6/21/2017	10:58:16 AM	0115249311	6/21/2017	7:43:16 AM	13	-2.6	24.7	43	738	
PDR 818 UW Light pole Tennis Court.txt	6/21/2017	11:13:16 AM	0115249311	6/21/2017	7:43:16 AM	14	-2.41	24.8	43	738	
PDR 818 UW Light pole Tennis Court.txt	6/21/2017	11:28:16 AM	0115249311	6/21/2017	7:43:16 AM	15	-2.68	25.5	41	738	
PDR 818 UW Light pole Tennis Court.txt	6/21/2017	11:43:16 AM	0115249311	6/21/2017	7:43:16 AM	16	-2.5	26.2	40	738	
PDR 818 UW Light pole Tennis Court.txt	6/21/2017	11:58:16 AM	0115249311	6/21/2017	7:43:16 AM	17	-2.68	26	40	738	
PDR 818 UW Light pole Tennis Court.txt	6/21/2017	12:13:16 PM	0115249311	6/21/2017	7:43:16 AM	18	-2.55	27	38	738	
PDR 818 UW Light pole Tennis Court.txt	6/21/2017	12:28:16 PM	0115249311	6/21/2017	7:43:16 AM	19	-2.35	26.7	37	738	
PDR 818 UW Light pole Tennis Court.txt	6/21/2017	12:43:16 PM	0115249311	6/21/2017	7:43:16 AM	20	-2.65	26.9	36	738	
PDR 818 UW Light pole Tennis Court.txt	6/21/2017	12:58:16 PM	0115249311	6/21/2017	7:43:16 AM	21	-2.72	27.3	35	738	
PDR 818 UW Light pole Tennis Court.txt	6/21/2017	1:13:16 PM	0115249311	6/21/2017	7:43:16 AM	22	-2.66	27.7	34	738	
PDR 818 UW Light pole Tennis Court.txt	6/21/2017	1:28:16 PM	0115249311	6/21/2017	7:43:16 AM	23	-2.56	28	33	738	
PDR 818 UW Light pole Tennis Court.txt	6/21/2017	1:43:16 PM	0115249311	6/21/2017	7:43:16 AM	24	-2.74	28.8	31	738	
PDR 818 UW Light pole Tennis Court.txt	6/21/2017	1:58:16 PM	0115249311	6/21/2017	7:43:16 AM	25	-2.7	29.5	28	738	
PDR 818 UW Light pole Tennis Court.txt	6/21/2017	2:13:16 PM	0115249311	6/21/2017	7:43:16 AM	26	-2.45	29.9	28	738	
1421 DW corner of fence.txt	6/22/2017	8:14:46 AM	0115249975	6/22/2017	7:59:46 AM	1	-5.13	17.9	56	740	
1421 DW corner of fence.txt	6/22/2017	8:29:46 AM	0115249975	6/22/2017	7:59:46 AM	2	-6.32	17.6	56	740	
1421 DW corner of fence.txt	6/22/2017	8:44:46 AM	0115249975	6/22/2017	7:59:46 AM	3	-6.4	17.9	57	740	
1421 DW corner of fence.txt	6/22/2017	8:59:46 AM	0115249975	6/22/2017	7:59:46 AM	4	-5.34	19.1	54	740	
1421 DW corner of fence.txt	6/22/2017	9:14:46 AM	0115249975	6/22/2017	7:59:46 AM	5	-6.37	19.8	53	740	
1421 DW corner of fence.txt	6/22/2017	9:29:46 AM	0115249975	6/22/2017	7:59:46 AM	6	-6.61	20.1	52	740	
1421 DW corner of fence.txt	6/22/2017	9:44:46 AM	0115249975	6/22/2017	7:59:46 AM	7	-6.45	20.4	52	740	
1421 DW corner of fence.txt	6/22/2017	9:59:46 AM	0115249975	6/22/2017	7:59:46 AM	8	-5.91	20.7	52	740	
1421 DW corner of fence.txt	6/22/2017	10:14:46 AM	0115249975	6/22/2017	7:59:46 AM	9	-5.98	20.8	53	740	
1421 DW corner of fence.txt	6/22/2017	10:29:46 AM	0115249975	6/22/2017	7:59:46 AM	10	-6.01	21.5	51	740	
1421 DW corner of fence.txt	6/22/2017	10:44:46 AM	0115249975	6/22/2017	7:59:46 AM	11	-5.62	22.1	49	740	
1421 DW corner of fence.txt	6/22/2017	10:59:46 AM	0115249975	6/22/2017	7:59:46 AM	12	-5.17	22.6	48	740	
1421 DW corner of fence.txt	6/22/2017	11:14:46 AM	0115249975	6/22/2017	7:59:46 AM	13	-5.47	23	48	740	
1421 DW corner of fence.txt	6/22/2017	11:29:46 AM	0115249975	6/22/2017	7:59:46 AM	14	-5.63	23.5	47	738	
1421 DW corner of fence.txt	6/22/2017	11:44:46 AM	0115249975	6/22/2017	7:59:46 AM	15	-5.21	24	47	738	
1421 DW corner of fence.txt	6/22/2017	11:59:46 AM	0115249975	6/22/2017	7:59:46 AM	16	-4.5	24.7	45	738	
1421 DW corner of fence.txt	6/22/2017	12:14:46 PM	0115249975	6/22/2017	7:59:46 AM	17	-4.84	25.6	43	738	
1421 DW corner of fence.txt	6/22/2017	12:29:46 PM	0115249975	6/22/2017	7:59:46 AM	18	-4.01	26.8	41	738	
1421 DW corner of fence.txt	6/22/2017	12:44:46 PM	0115249975	6/22/2017	7:59:46 AM	19	-3.71	27.9	36	738	
1421 DW corner of fence.txt	6/22/2017	12:59:46 PM	0115249975	6/22/2017	7:59:46 AM	20	-2.68	28.9	34	738	
1421 DW corner of fence.txt	6/22/2017	1:14:46 PM	0115249975	6/22/2017	7:59:46 AM	21	-4	29.5	34	738	
1421 DW corner of fence.txt	6/22/2017	1:29:46 PM	0115249975	6/22/2017	7:59:46 AM	22	-2.23	30.3	32	738	
1421 DW corner of fence.txt	6/22/2017	1:44:46 PM	0115249975	6/22/2017	7:59:46 AM	23	-3.24	30.6	32	738	
1421 DW corner of fence.txt	6/22/2017	1:59:46 PM	0115249975	6/22/2017	7:59:46 AM	24	-4.19	30.9	31	738	
1421 DW corner of fence.txt	6/22/2017	2:14:46 PM	0115249975	6/22/2017	7:59:46 AM	25	-3.13	31.2	30	738	
1421 DW corner of fence.txt	6/22/2017	2:29:46 PM	0115249975	6/22/2017	7:59:46 AM	26	-3.64	31.4	29	738	
1421 DW corner of fence.txt	6/22/2017	2:44:46 PM	0115249975	6/22/2017	7:59:46 AM	27	-3.32	31.3	30	738	
1421 DW corner of fence.txt	6/22/2017	2:59:46 PM	0115249975	6/22/2017	7:59:46 AM	28	-3.69	31.1	31	738	
1429-1 DW Mid section of fence Line.txt	6/22/2017	8:06:10 AM	0115250009	6/22/2017	7:51:10 AM	1	2.03	16.9	60	740	
1429-1 DW Mid section of fence Line.txt	6/22/2017	8:21:10 AM	0115250009	6/22/2017	7:51:10 AM	2	0.23	17.5	56	740	
1429-1 DW Mid section of fence Line.txt	6/22/2017	8:36:10 AM	0115250009	6/22/2017	7:51:10 AM	3	0.31	17.5	57	740	
1429-1 DW Mid section of fence Line.txt	6/22/2017	8:51:10 AM	0115250009	6/22/2017	7:51:10 AM	4	0.73	19.6	53	740	
1429-1 DW Mid section of fence Line.txt	6/22/2017	9:06:10 AM	0115250009	6/22/2017	7:51:10 AM	5	0.75	21.9	46	740	
1429-1 DW Mid section of fence Line.txt	6/22/2017	9:21:10 AM	0115250009	6/22/2017	7:51:10 AM	6	-0.57	23.2	44	740	

Summary of CAMP Monitoring

Former Sperry Remington Site - North Portion
Elmira, New York

Unit Location	Record Date	Record Time	Unit Serial Number	Start Date	Start Time	Record #	Dust Concentration in µg/m^3	Temp	RHumidity	AtmoPressure in mm/Hg	Notes
1429-2 Dw Mid section of fence line.txt	6/22/2017	9:45:32 AM	0115250009	6/22/2017	9:30:32 AM	1	-0.67	24	44	740	
1429-2 Dw Mid section of fence line.txt	6/22/2017	10:00:32 AM	0115250009	6/22/2017	9:30:32 AM	2	0.63	24	45	740	
1429-2 Dw Mid section of fence line.txt	6/22/2017	10:15:32 AM	0115250009	6/22/2017	9:30:32 AM	3	-0.24	24.4	45	740	
1429-2 Dw Mid section of fence line.txt	6/22/2017	10:30:32 AM	0115250009	6/22/2017	9:30:32 AM	4	-0.81	25.6	43	740	
1429-2 Dw Mid section of fence line.txt	6/22/2017	10:45:32 AM	0115250009	6/22/2017	9:30:32 AM	5	-0.46	26.8	40	740	
1429-2 Dw Mid section of fence line.txt	6/22/2017	11:00:32 AM	0115250009	6/22/2017	9:30:32 AM	6	-0.51	27.9	38	740	
1429-2 Dw Mid section of fence line.txt	6/22/2017	11:15:32 AM	0115250009	6/22/2017	9:30:32 AM	7	-0.46	28.1	37	740	
1429-2 Dw Mid section of fence line.txt	6/22/2017	11:30:32 AM	0115250009	6/22/2017	9:30:32 AM	8	-0.66	28.5	38	740	
1429-2 Dw Mid section of fence line.txt	6/22/2017	11:45:32 AM	0115250009	6/22/2017	9:30:32 AM	9	-0.66	29	38	740	
1429-2 Dw Mid section of fence line.txt	6/22/2017	12:00:32 PM	0115250009	6/22/2017	9:30:32 AM	10	-0.05	29.8	36	740	
1429-2 Dw Mid section of fence line.txt	6/22/2017	12:15:32 PM	0115250009	6/22/2017	9:30:32 AM	11	-0.21	31.1	36	740	
1429-2 Dw Mid section of fence line.txt	6/22/2017	12:30:32 PM	0115250009	6/22/2017	9:30:32 AM	12	-0.48	33.6	31	740	
1429-2 Dw Mid section of fence line.txt	6/22/2017	12:45:32 PM	0115250009	6/22/2017	9:30:32 AM	13	0.77	34.6	28	740	
1429-2 Dw Mid section of fence line.txt	6/22/2017	1:00:32 PM	0115250009	6/22/2017	9:30:32 AM	14	-0.59	35	27	740	
1429-2 Dw Mid section of fence line.txt	6/22/2017	1:15:32 PM	0115250009	6/22/2017	9:30:32 AM	15	-1.06	35.2	28	738	
1429-2 Dw Mid section of fence line.txt	6/22/2017	1:30:32 PM	0115250009	6/22/2017	9:30:32 AM	16	-0.12	35.7	27	738	
1429-2 Dw Mid section of fence line.txt	6/22/2017	1:45:32 PM	0115250009	6/22/2017	9:30:32 AM	17	-0.3	35.5	27	738	
1429-2 Dw Mid section of fence line.txt	6/22/2017	2:00:32 PM	0115250009	6/22/2017	9:30:32 AM	18	-1.05	35.6	27	738	
1429-2 Dw Mid section of fence line.txt	6/22/2017	2:15:32 PM	0115250009	6/22/2017	9:30:32 AM	19	-1.13	36.7	26	738	
1429-2 Dw Mid section of fence line.txt	6/22/2017	2:30:32 PM	0115250009	6/22/2017	9:30:32 AM	20	-1.16	36.9	25	738	
1429-2 Dw Mid section of fence line.txt	6/22/2017	2:45:32 PM	0115250009	6/22/2017	9:30:32 AM	21	-1.4	36.5	25	738	
1429-2 Dw Mid section of fence line.txt	6/22/2017	3:00:32 PM	0115250009	6/22/2017	9:30:32 AM	22	-1.52	35.9	26	738	
2535 UW Light pole Tennis Court.txt	6/22/2017	8:10:41 AM	CM15111015	6/22/2017	7:55:41 AM	1	6.96	17.6	54	740	
2535 UW Light pole Tennis Court.txt	6/22/2017	8:25:41 AM	CM15111015	6/22/2017	7:55:41 AM	2	1.8	18	53	740	
2535 UW Light pole Tennis Court.txt	6/22/2017	8:40:41 AM	CM15111015	6/22/2017	7:55:41 AM	3	1.64	18.6	51	740	
2535 UW Light pole Tennis Court.txt	6/22/2017	8:55:41 AM	CM15111015	6/22/2017	7:55:41 AM	4	1.95	19.9	49	742	
2535 UW Light pole Tennis Court.txt	6/22/2017	9:10:41 AM	CM15111015	6/22/2017	7:55:41 AM	5	0.79	20.6	48	740	
2535 UW Light pole Tennis Court.txt	6/22/2017	9:25:41 AM	CM15111015	6/22/2017	7:55:41 AM	6	0.42	21.8	45	740	
2535 UW Light pole Tennis Court.txt	6/22/2017	9:40:41 AM	CM15111015	6/22/2017	7:55:41 AM	7	0.3	23.2	42	740	
2535 UW Light pole Tennis Court.txt	6/22/2017	9:55:41 AM	CM15111015	6/22/2017	7:55:41 AM	8	1.03	24.6	40	740	
2535 UW Light pole Tennis Court.txt	6/22/2017	10:10:41 AM	CM15111015	6/22/2017	7:55:41 AM	9	0.47	25.2	40	740	
2535 UW Light pole Tennis Court.txt	6/22/2017	10:25:41 AM	CM15111015	6/22/2017	7:55:41 AM	10	0.4	25.6	39	740	
2535 UW Light pole Tennis Court.txt	6/22/2017	10:40:41 AM	CM15111015	6/22/2017	7:55:41 AM	11	0.47	26	38	740	
2535 UW Light pole Tennis Court.txt	6/22/2017	10:55:41 AM	CM15111015	6/22/2017	7:55:41 AM	12	0.64	27.5	36	740	
2535 UW Light pole Tennis Court.txt	6/22/2017	11:10:41 AM	CM15111015	6/22/2017	7:55:41 AM	13	0	28.7	34	740	
2535 UW Light pole Tennis Court.txt	6/22/2017	11:25:41 AM	CM15111015	6/22/2017	7:55:41 AM	14	-0.27	29.7	32	740	
2535 UW Light pole Tennis Court.txt	6/22/2017	11:40:41 AM	CM15111015	6/22/2017	7:55:41 AM	15	0.07	30.7	32	740	
2535 UW Light pole Tennis Court.txt	6/22/2017	11:55:41 AM	CM15111015	6/22/2017	7:55:41 AM	16	-0.09	31.6	30	740	
2535 UW Light pole Tennis Court.txt	6/22/2017	12:10:41 PM	CM15111015	6/22/2017	7:55:41 AM	17	-0.21	32.7	29	740	
2535 UW Light pole Tennis Court.txt	6/22/2017	12:25:41 PM	CM15111015	6/22/2017	7:55:41 AM	18	-0.06	33.9	27	740	
2535 UW Light pole Tennis Court.txt	6/22/2017	12:40:41 PM	CM15111015	6/22/2017	7:55:41 AM	19	-0.39	34.5	25	740	
2535 UW Light pole Tennis Court.txt	6/22/2017	12:55:41 PM	CM15111015	6/22/2017	7:55:41 AM	20	-0.31	34	26	740	
2535 UW Light pole Tennis Court.txt	6/22/2017	1:10:41 PM	CM15111015	6/22/2017	7:55:41 AM	21	-0.67	33.7	25	740	
2535 UW Light pole Tennis Court.txt	6/22/2017	1:25:41 PM	CM15111015	6/22/2017	7:55:41 AM	22	0.76	34.2	26	740	
2535 UW Light pole Tennis Court.txt	6/22/2017	1:40:41 PM	CM15111015	6/22/2017	7:55:41 AM	23	-0.21	34.7	25	740	
2535 UW Light pole Tennis Court.txt	6/22/2017	1:55:41 PM	CM15111015	6/22/2017	7:55:41 AM	24	0.67	34.9	25	740	
2535 UW Light pole Tennis Court.txt	6/22/2017	2:10:41 PM	CM15111015	6/22/2017	7:55:41 AM	25	-0.79	34.6	25	740	
2535 UW Light pole Tennis Court.txt	6/22/2017	2:25:41 PM	CM15111015	6/22/2017	7:55:41 AM	26	-0.74	34.5	25	740	
2535 UW Light pole Tennis Court.txt	6/22/2017	2:40:41 PM	CM15111015	6/22/2017	7:55:41 AM	27	-0.76	34.1	26	740	
2535 UW Light pole Tennis Court.txt	6/22/2017	2:55:41 PM	CM15111015	6/22/2017	7:55:41 AM	28	-0.52	34.1	26	740	
801-1 DW next to gate.txt	6/22/2017	8:08:16 AM	0115249188	6/22/2017	7:53:16 AM	1	1.52	17.3	57	740	
801-1 DW next to gate.txt	6/22/2017	8:23:16 AM	0115249188	6/22/2017	7:53:16 AM	2	0.53	17.8	55	740	
801-1 DW next to gate.txt	6/22/2017	8:38:16 AM	0115249188	6/22/2017	7:53:16 AM	3	0.63	17.9	56	740	
801-2 DW next to gate.txt	6/22/2017	9:44:49 AM	0115249188	6/22/2017	9:29:49 AM	1	0	23.3	45	738	
801-2 DW next to gate.txt	6/22/2017	9:59:49 AM	0115249188	6/22/2017	9:29:49 AM	2	0.2	23.9	44	738	
801-2 DW next to gate.txt	6/22/2017	10:14:49 AM	0115249188	6/22/2017	9:29:49 AM	3	0.18	24.5	43	738	
801-2 DW next to gate.txt	6/22/2017	10:29:49 AM	0115249188	6/22/2017	9:29:49 AM	4	0.44	25.5	41	738	
801-2 DW next to gate.txt	6/22/2017	10:44:49 AM	0115249188	6/22/2017	9:29:49 AM	5	0.5	26.9	38	738	
801-2 DW next to gate.txt	6/22/2017	10:59:49 AM	0115249188	6/22/2017	9:29:49 AM	6	0.46	28.3	35	738	
801-2 DW next to gate.txt	6/22/2017	11:14:49 AM	0115249188	6/22/2017	9:29:49 AM	7	1.27	28.7	35	738	
801-2 DW next to gate.txt	6/22/2017	11:29:49 AM	0115249188	6/22/2017	9:29:49 AM	8	0.96	29.4	34	738	
801-2 DW next to gate.txt	6/22/2017	11:44:49 AM	0115249188	6/22/2017	9:29:49 AM	9	1.01	30	34	738	
801-2 DW next to gate.txt	6/22/2017	11:59:49 AM	0115249188	6/22/2017	9:29:49 AM	10	1.15	30.6	32	738	
801-2 DW next to gate.txt	6/22/2017	12:14:49 PM	0115249188	6/22/2017	9:29:49 AM	11	1.08	31.2	32	738	
801-2 DW next to gate.txt	6/22/2017	12:29:49 PM	0115249188	6/22/2017	9:29:49 AM	12	1.32	33.2	29	738	
801-2 DW next to gate.txt	6/22/2017	12:44:49 PM	0115249188	6/22/2017	9:29:49 AM	13	2.23	33.7	26	738	
801-2 DW next to gate.txt	6/22/2017	12:59:49 PM	0115249188	6/22/2017	9:29:49 AM	14	3.51	33.8	26	738	
801-2 DW next to gate.txt	6/22/2017	1:14:49 PM	0115249188	6/22/2017	9:29:49 AM	15	0.98	34.1	26	738	
801-2 DW next to gate.txt	6/22/2017	1:29:49 PM	0115249188	6/22/2017	9:29:49 AM	16	2.05	34.4	25	738	
801-2 DW next to gate.txt	6/22/2017	1:44:49 PM	0115249188	6/22/2017	9:29:49 AM	17	2.02	33.9	26	738	
801-2 DW next to gate.txt	6/22/2017	1:59:49 PM	0115249188	6/22/2017	9:29:49 AM	18	1.16	33.8	26	738	
801-2 DW next to gate.txt	6/22/2017	2:14:49 PM	0115249188	6/22/2017	9:29:49 AM	19	1.88	35.4	24	736	
801-2 DW next to gate.txt	6/22/2017	2:29:49 PM	0115249188	6/22/2017	9:29:49 AM	20	2.81	36	23	736	
801-2 DW next to gate.txt	6/22/2017	2:44:49 PM	0115249188	6/22/2017	9:29:49 AM	21	1.66	35.5	24	736	
801-2 DW next to gate.txt	6/22/2017	2:59:49 PM	0115249188	6/22/2017	9:29:49 AM	22	1.39	35	24	736	
1421 DW NW corner tennis court.txt	6/23/2017	7:38:47 AM	0115249975	6/23/2017	7:23:47 AM	1	8.8	20.5	72	734	
1421 DW NW corner tennis court.txt	6/23/2017	7:53:47 AM	0115249975	6/23/2017	7:23:47 AM	2	9.15	23	70	734	
1421 DW NW corner tennis court.txt	6/23/2017	8:08:47 AM	0115249975	6/23/2017	7:23:47 AM	3	6.71	23.9	67	734	
1421 DW NW corner tennis court.txt	6/23/2017	8:23:47 AM	0115249975	6/23/2017	7:23:47 AM	4	6.99	24.2	66	734	
1421 DW NW corner tennis court.txt	6/23/2017	8:38:47 AM	0115249975	6/23/2017	7:23:47 AM	5	5.76	24.5	65	734	
1421 DW NW corner tennis court.txt	6/23/2017	8:53:47 AM	0115249975	6/23/2017	7:23:47 AM	6	5.13	24.7	64	734	
1421 DW NW corner tennis court.txt	6/23/2017	9:08:47 AM	0115249975	6/23/2017	7:23:47 AM	7	3.92	24.7	63	734	
1421 DW NW corner tennis court.txt	6/23/2017	9:23:47 AM	0115249975	6/23/2017	7:23:47 AM	8	2.62	24.5	63	734	
1421 DW NW corner tennis court.txt	6/23/2017	9:38:47 AM	0115249975	6/23/2017	7:23:47 AM	9	1.97	24.4	64	734	
1421 DW NW corner tennis court.txt	6/23/2017	9:53:47 AM	0115249975	6/23/2017	7:23:47 AM	10	1.44	24.3	64	732	
1421 DW NW corner tennis court.txt	6/23/2017	10:08:47 AM	0115249975	6/23/2017	7:23:47 AM	11	-0.61	24.3	63	732	
1421 DW NW corner tennis court.txt	6/23/2017	10:23:47 AM	0115249975	6/23/2017	7:23:47 AM	12	-0.92	24.3	63	732	
1421 DW NW corner tennis court.txt	6/23/2017	10:38:47 AM	0115249975	6/23/2017	7:23:47 AM	13	-2.45	24.3	64	732	
1421 DW NW corner tennis court.txt	6/23/2017	10:53:47 AM	0115249975	6/23/2017	7:23:47 AM	14	-4.25	24.3	63	732	
1421 DW NW corner tennis court.txt	6/23/2017	11:08:47 AM	0115249975	6/23/2017	7:23:47 AM	15	-5.17	24.3	63	732	
1421 DW NW corner tennis court.txt	6/23/2017	11:23:47 AM	0115249975	6/23/2017	7:23:47 AM	16	-5.33	24.3	64	732	
1421 DW NW corner tennis court.txt	6/23/2017	11:38:47 AM	0115249975	6/23/2017	7:23:47 AM	17	-4.99	24.4	65	732	
1421 DW NW corner tennis court.txt	6/23/2017	11:53:47 AM	0115249975	6/23/2017	7:23:47 AM	18	-5.6	24.5	65	732	
1421 DW NW corner tennis court.txt	6/23/2017	12:08:47 PM	0115249975	6/23/2017	7:23:47 AM	19	-5.81	24.3	66	732	
1429 DW mid fence line tennis court.txt	6/23/2017	7:38:38 AM	0115250009	6/23/2017	7:23:38 AM	1	4.5	19.6	73	734	
1429 DW mid fence line tennis court.txt	6/23/2017	7:53:38 AM	0115250009	6/23/2017	7:23:38 AM	2	4.27	22.1	72	734	
1429 DW mid fence line tennis court.txt	6/23/2017	8:08:38 AM	0115250009	6/23/2017	7:23:38 AM	3	3.65	23.9	68	734	
1429 DW mid fence line tennis court.txt	6/23/2017	8:23:38 AM	0115250009	6/23/2017	7:23:38 AM	4	3.21	24.6	65	734	
1429 DW mid fence line tennis court.txt	6/23/2017	8:38:38 AM	0115250009	6/23/2017	7:23:38 AM	5	1.97	24.8	64	734	
1429 DW mid fence line tennis court.txt	6/23/2017	8:53:38 AM	0115250009	6/23/2017	7:23:38 AM	6	1.69	25	64	734	
1429 DW mid fence line tennis court.txt	6/23/2017	9:08:38 AM	0115250009	6/23/2017	7:23:38 AM	7	0.89	25.3	62	734	
1429 DW mid fence line tennis court.txt	6/23/2017	9:23:38 AM	0115250009	6/23/2017	7:23:38 AM	8	0.01	25	63	734	
1429 DW mid fence line tennis court.txt	6/23/2017	9:38:38 AM	0115250009	6/23/2017	7:23:38 AM	9	-0.34	24.8	63	734	
1429 DW mid fence line tennis court.txt	6/23/2017	9:53:38 AM	0115250009	6/23/2017	7:23:38 AM	10	-1.16	24.7	63	732	
1429 DW mid fence line tennis court.txt	6/23/2017	10:08:38 AM	0115250009	6/23/2017	7:23:38 AM	11	-3.47	24.7	63	732	
1429 DW mid fence line tennis court.txt	6/23/2017	10:23:38 AM	0115250009	6/23/2017	7:23:38 AM	12	-3.32	24.7	63	732	
1429 DW mid fence line tennis court.txt	6/23/2017	10:38:38 AM	0115250009	6/23/2017	7:23:38 AM	13	-4.39	24.5	64	732	
1429 DW mid fence line tennis court.txt	6/23/2017	10:53:38 AM	0115250009	6/23/2017	7:23:38 AM	14	-5.58	24.6	63	732	
1429 DW mid fence line tennis court.txt	6/23/2017	11:08:38 AM	0115250009	6/23/2017	7:23:38 AM	15	-6.53	24.8	63	732	
1429 DW mid fence line tennis court.txt	6/23/2017	11:23:38 AM	0115250009	6/23/2017	7:23:38 AM	16	-6.22	24.9	63	732	
1429 DW mid fence line tennis court.txt	6/23/2017	11:38:38 AM	0115250009	6/23/2017	7:23:38 AM	17	-6.06	25.3	62	732	
1429 DW mid fence line tennis court.txt	6/23/2017	11:53:38 AM	0115250009	6/23/2017	7:23:38 AM	18	-7.07	25.2	63	732	
1429 DW mid fence line tennis court.txt	6/23/2017	12:08:38 PM	0115250009	6/23/2017	7:23:38 AM	19	-6.96	24.7	65	732	
2535 UW mid fence line light pole.txt	6/23/2017	7:37:55 AM	CM15111015	6/23/2017	7:22:55 AM	1	10.34	19.5	71	734	
2535 UW mid fence line light pole.txt	6/23/2017	7:52:55 AM	CM15111015	6/23/2017	7:22:55 AM	2	6.36	22	72	734	
2535 UW mid fence line light pole.txt	6/23/2017	8:07:55 AM	CM15111015	6/23/2017	7:22:55 AM	3	5.9	23.8	65	734	
2535 UW mid fence line light pole.txt	6/23/2017	8:22:55 AM	CM15111015	6/23/2017	7:22:55 AM	4	5.77	25	61	734	
2535 UW mid fence line light pole.txt	6/23/2017	8:37:55 AM	CM15111015	6/23/2017	7:22:55 AM	5	2.67	25.8	58	734	
2535 UW mid fence line light pole.txt	6/23/2017	8:52:55 AM	CM15111015	6/23/2017	7:22:55 AM	6	2.18	26.3	57	734	
2535 UW mid fence line light pole.txt	6/23/2017	9:07:55 AM	CM15111015	6/23/2017	7:22:55 AM	7	1.23	26.4	56	734	
2535 UW mid fence line light pole.txt	6/23/2017	9:22:55 AM	CM15111015	6/23/2017	7:22:55 AM	8	0.2	26.3	56	734	
2535 UW mid fence line light pole.txt	6/23/2017	9:37:55 AM	CM15111015	6/23/2017	7:22:55 AM	9	-1.04	26.4	55	734	
2535 UW mid fence line light pole.txt	6/23/2017	9:52:55 AM	CM15111015	6/23/2017	7:22:55 AM	10	-1.41	26.5	55	734	
2535 UW mid fence line light pole.txt	6/23/2017	10:07:55 AM	CM15111015	6/23/2017	7:22:55 AM	11	-4.4	26.6	54	734	
2535 UW mid fence line light pole.txt	6/23/2017	10:22:55 AM	CM15111015	6/23/2017	7:22:55 AM	12	-4.96	26.6	54	734	

Summary of CAMP Monitoring

Former Sperry Remington Site - North Portion
Elmira, New York

Unit Location	Record Date	Record Time	Unit Serial Number	Start Date	Start Time	Record #	Dust Concentration in µg/m^3	Temp	RHumidity	AtmoPressure in mm/Hg	Notes
2535 UW mid fence line light pole.txt	6/23/2017	10:37:55 AM	CM15111015	6/23/2017	7:22:55 AM	13	-5.4	26.4	56	734	
2535 UW mid fence line light pole.txt	6/23/2017	10:52:55 AM	CM15111015	6/23/2017	7:22:55 AM	14	-8.3	26.4	55	734	
2535 UW mid fence line light pole.txt	6/23/2017	11:07:55 AM	CM15111015	6/23/2017	7:22:55 AM	15	-9.34	26.8	54	734	
2535 UW mid fence line light pole.txt	6/23/2017	11:22:55 AM	CM15111015	6/23/2017	7:22:55 AM	16	-9.29	27.2	53	734	
2535 UW mid fence line light pole.txt	6/23/2017	11:37:55 AM	CM15111015	6/23/2017	7:22:55 AM	17	-9.85	27.4	53	734	
2535 UW mid fence line light pole.txt	6/23/2017	11:52:55 AM	CM15111015	6/23/2017	7:22:55 AM	18	-10.56	27.1	54	734	
2535 UW mid fence line light pole.txt	6/23/2017	12:07:55 PM	CM15111015	6/23/2017	7:22:55 AM	19	-10.37	26.5	58	732	
801 DW NE corner tennis court.txt	6/23/2017	7:41:13 AM	0115249188	6/23/2017	7:26:13 AM	1	2.12	19.9	71	734	
801 DW NE corner tennis court.txt	6/23/2017	7:56:13 AM	0115249188	6/23/2017	7:26:13 AM	2	2.04	22	73	734	
801 DW NE corner tennis court.txt	6/23/2017	8:11:13 AM	0115249188	6/23/2017	7:26:13 AM	3	1.81	23.4	68	732	
801 DW NE corner tennis court.txt	6/23/2017	8:26:13 AM	0115249188	6/23/2017	7:26:13 AM	4	2.16	24	66	732	
801 DW NE corner tennis court.txt	6/23/2017	8:41:13 AM	0115249188	6/23/2017	7:26:13 AM	5	0.69	24.2	65	732	
801 DW NE corner tennis court.txt	6/23/2017	8:56:13 AM	0115249188	6/23/2017	7:26:13 AM	6	0.38	24.4	64	732	
801 DW NE corner tennis court.txt	6/23/2017	9:11:13 AM	0115249188	6/23/2017	7:26:13 AM	7	-0.11	24.7	62	732	
801 DW NE corner tennis court.txt	6/23/2017	9:26:13 AM	0115249188	6/23/2017	7:26:13 AM	8	-0.1	24.6	62	732	
801 DW NE corner tennis court.txt	6/23/2017	9:41:13 AM	0115249188	6/23/2017	7:26:13 AM	9	-0.19	24.5	62	732	
801 DW NE corner tennis court.txt	6/23/2017	9:56:13 AM	0115249188	6/23/2017	7:26:13 AM	10	-0.95	24.6	62	732	
801 DW NE corner tennis court.txt	6/23/2017	10:11:13 AM	0115249188	6/23/2017	7:26:13 AM	11	-3.56	24.5	62	732	
801 DW NE corner tennis court.txt	6/23/2017	10:26:13 AM	0115249188	6/23/2017	7:26:13 AM	12	-3.66	24.5	62	732	
801 DW NE corner tennis court.txt	6/23/2017	10:41:13 AM	0115249188	6/23/2017	7:26:13 AM	13	-4.4	24.3	63	732	
801 DW NE corner tennis court.txt	6/23/2017	10:56:13 AM	0115249188	6/23/2017	7:26:13 AM	14	-5.23	24.2	63	732	
801 DW NE corner tennis court.txt	6/23/2017	11:11:13 AM	0115249188	6/23/2017	7:26:13 AM	15	-5.93	24.4	62	732	
801 DW NE corner tennis court.txt	6/23/2017	11:26:13 AM	0115249188	6/23/2017	7:26:13 AM	16	-4.16	24.6	63	732	
801 DW NE corner tennis court.txt	6/23/2017	11:41:13 AM	0115249188	6/23/2017	7:26:13 AM	17	-6.2	25	62	732	
801 DW NE corner tennis court.txt	6/23/2017	11:56:13 AM	0115249188	6/23/2017	7:26:13 AM	18	-6.55	24.8	62	732	
801 DW NE corner tennis court.txt	6/23/2017	12:11:13 PM	0115249188	6/23/2017	7:26:13 AM	19	-6.69	24.3	65	732	
1421 DW NW Corner Fence.txt	6/28/2017	8:02:00 AM	0115249975	6/28/2017	7:47:00 AM	1	1.87	17	53	742	
1421 DW NW Corner Fence.txt	6/28/2017	8:17:00 AM	0115249975	6/28/2017	7:47:00 AM	2	2.08	17.1	54	742	
1421 DW NW Corner Fence.txt	6/28/2017	8:32:00 AM	0115249975	6/28/2017	7:47:00 AM	3	2.06	18.7	49	742	
1421 DW NW Corner Fence.txt	6/28/2017	8:47:00 AM	0115249975	6/28/2017	7:47:00 AM	4	2.13	20.3	44	742	
1421 DW NW Corner Fence.txt	6/28/2017	9:02:00 AM	0115249975	6/28/2017	7:47:00 AM	5	1.64	21.5	41	742	
1421 DW NW Corner Fence.txt	6/28/2017	9:17:00 AM	0115249975	6/28/2017	7:47:00 AM	6	1.96	22.8	38	742	
1421 DW NW Corner Fence.txt	6/28/2017	9:32:00 AM	0115249975	6/28/2017	7:47:00 AM	7	1.92	22.4	39	742	
1421 DW NW Corner Fence.txt	6/28/2017	9:47:00 AM	0115249975	6/28/2017	7:47:00 AM	8	1.65	22.5	39	742	
1421 DW NW Corner Fence.txt	6/28/2017	10:02:00 AM	0115249975	6/28/2017	7:47:00 AM	9	1.26	23.1	37	742	
1421 DW NW Corner Fence.txt	6/28/2017	10:17:00 AM	0115249975	6/28/2017	7:47:00 AM	10	1.97	24.1	34	742	
1421 DW NW Corner Fence.txt	6/28/2017	10:32:00 AM	0115249975	6/28/2017	7:47:00 AM	11	2.02	24.3	35	742	
1421 DW NW Corner Fence.txt	6/28/2017	10:47:00 AM	0115249975	6/28/2017	7:47:00 AM	12	2.44	24.4	35	742	
1421 DW NW Corner Fence.txt	6/28/2017	11:02:00 AM	0115249975	6/28/2017	7:47:00 AM	13	2.43	24.5	35	742	
1421 DW NW Corner Fence.txt	6/28/2017	11:17:00 AM	0115249975	6/28/2017	7:47:00 AM	14	2.57	24.7	34	742	
1421 DW NW Corner Fence.txt	6/28/2017	11:32:00 AM	0115249975	6/28/2017	7:47:00 AM	15	3.58	24.8	33	742	
1421 DW NW Corner Fence.txt	6/28/2017	11:47:00 AM	0115249975	6/28/2017	7:47:00 AM	16	2.99	25	33	742	
1421 DW NW Corner Fence.txt	6/28/2017	12:02:00 PM	0115249975	6/28/2017	7:47:00 AM	17	2.89	25	34	742	
1421 DW NW Corner Fence.txt	6/28/2017	12:17:00 PM	0115249975	6/28/2017	7:47:00 AM	18	2.6	24.9	34	742	
1421 DW NW Corner Fence.txt	6/28/2017	12:32:00 PM	0115249975	6/28/2017	7:47:00 AM	19	2.91	25	33	742	
1421 DW NW Corner Fence.txt	6/28/2017	12:47:00 PM	0115249975	6/28/2017	7:47:00 AM	20	2.48	24.8	33	742	
1421 DW NW Corner Fence.txt	6/28/2017	1:02:00 PM	0115249975	6/28/2017	7:47:00 AM	21	3.2	24.9	33	742	
1421 DW NW Corner Fence.txt	6/28/2017	1:17:00 PM	0115249975	6/28/2017	7:47:00 AM	22	2.77	25.6	31	742	
1421 DW NW Corner Fence.txt	6/28/2017	1:32:00 PM	0115249975	6/28/2017	7:47:00 AM	23	3.96	26.2	29	742	
1421 DW NW Corner Fence.txt	6/28/2017	1:47:00 PM	0115249975	6/28/2017	7:47:00 AM	24	2.76	26.6	28	742	
1421 DW NW Corner Fence.txt	6/28/2017	2:02:00 PM	0115249975	6/28/2017	7:47:00 AM	25	3.2	26.7	27	742	
1421 DW NW Corner Fence.txt	6/28/2017	2:17:00 PM	0115249975	6/28/2017	7:47:00 AM	26	2.93	26.9	27	742	
1421 DW NW Corner Fence.txt	6/28/2017	2:32:00 PM	0115249975	6/28/2017	7:47:00 AM	27	2.91	27.3	27	742	
1421 DW NW Corner Fence.txt	6/28/2017	2:47:00 PM	0115249975	6/28/2017	7:47:00 AM	28	3.17	27.3	27	742	
1421 DW NW Corner Fence.txt	6/28/2017	3:02:00 PM	0115249975	6/28/2017	7:47:00 AM	29	3.85	27.4	27	742	
1421 DW NW Corner Fence.txt	6/28/2017	3:17:00 PM	0115249975	6/28/2017	7:47:00 AM	30	4.35	27.2	27	742	
1421 DW NW Corner Fence.txt	6/28/2017	3:32:00 PM	0115249975	6/28/2017	7:47:00 AM	31	3.99	27.6	26	742	
1421 DW NW Corner Fence.txt	6/28/2017	3:47:00 PM	0115249975	6/28/2017	7:47:00 AM	32	3.94	28.2	26	742	
1421 DW NW Corner Fence.txt	6/28/2017	4:02:00 PM	0115249975	6/28/2017	7:47:00 AM	33	3.99	29.3	24	742	
1421 DW NW Corner Fence.txt	6/28/2017	4:17:00 PM	0115249975	6/28/2017	7:47:00 AM	34	4.83	29.6	23	742	
1421 DW NW Corner Fence.txt	6/28/2017	4:32:00 PM	0115249975	6/28/2017	7:47:00 AM	35	4.71	29.4	25	742	
1429 DW N Fence.txt	6/28/2017	8:01:24 AM	0115250009	6/28/2017	7:46:24 AM	1	3.48	15.9	56	742	
1429 DW N Fence.txt	6/28/2017	8:16:24 AM	0115250009	6/28/2017	7:46:24 AM	2	2.95	15.8	58	742	
1429 DW N Fence.txt	6/28/2017	8:31:24 AM	0115250009	6/28/2017	7:46:24 AM	3	2.13	17.5	54	742	
1429 DW N Fence.txt	6/28/2017	8:46:24 AM	0115250009	6/28/2017	7:46:24 AM	4	2.39	19.6	47	742	
1429 DW N Fence.txt	6/28/2017	9:01:24 AM	0115250009	6/28/2017	7:46:24 AM	5	1.72	21.6	42	742	
1429 DW N Fence.txt	6/28/2017	9:16:24 AM	0115250009	6/28/2017	7:46:24 AM	6	2.34	23.9	39	742	
1429 DW N Fence.txt	6/28/2017	9:31:24 AM	0115250009	6/28/2017	7:46:24 AM	7	3.29	25.1	35	742	
1429 DW N Fence.txt	6/28/2017	9:46:24 AM	0115250009	6/28/2017	7:46:24 AM	8	1.85	25.5	35	742	
1429 DW N Fence.txt	6/28/2017	10:01:24 AM	0115250009	6/28/2017	7:46:24 AM	9	1.68	27	33	742	
1429 DW N Fence.txt	6/28/2017	10:16:24 AM	0115250009	6/28/2017	7:46:24 AM	10	1.46	28.9	30	742	
1429 DW N Fence.txt	6/28/2017	10:31:24 AM	0115250009	6/28/2017	7:46:24 AM	11	1.18	29.7	29	744	
1429 DW N Fence.txt	6/28/2017	10:46:24 AM	0115250009	6/28/2017	7:46:24 AM	12	1.94	29.9	29	744	
1429 DW N Fence.txt	6/28/2017	11:01:24 AM	0115250009	6/28/2017	7:46:24 AM	13	1.64	30.1	29	742	
1429 DW N Fence.txt	6/28/2017	11:16:24 AM	0115250009	6/28/2017	7:46:24 AM	14	1.44	30.9	29	744	
1429 DW N Fence.txt	6/28/2017	11:31:24 AM	0115250009	6/28/2017	7:46:24 AM	15	1.85	31.1	28	744	
1429 DW N Fence.txt	6/28/2017	11:46:24 AM	0115250009	6/28/2017	7:46:24 AM	16	2.01	32	26	744	
1429 DW N Fence.txt	6/28/2017	12:01:24 PM	0115250009	6/28/2017	7:46:24 AM	17	2.01	32	25	744	
1429 DW N Fence.txt	6/28/2017	12:16:24 PM	0115250009	6/28/2017	7:46:24 AM	18	1.72	31	28	744	
1429 DW N Fence.txt	6/28/2017	12:31:24 PM	0115250009	6/28/2017	7:46:24 AM	19	1.77	31	28	744	
1429 DW N Fence.txt	6/28/2017	12:46:24 PM	0115250009	6/28/2017	7:46:24 AM	20	1.85	30.5	27	744	
1429 DW N Fence.txt	6/28/2017	1:01:24 PM	0115250009	6/28/2017	7:46:24 AM	21	1.76	30.1	28	744	
1429 DW N Fence.txt	6/28/2017	1:16:24 PM	0115250009	6/28/2017	7:46:24 AM	22	2.29	31.8	26	744	
1429 DW N Fence.txt	6/28/2017	1:31:24 PM	0115250009	6/28/2017	7:46:24 AM	23	1.93	32.8	24	742	
1429 DW N Fence.txt	6/28/2017	1:46:24 PM	0115250009	6/28/2017	7:46:24 AM	24	1.49	33	24	742	
1429 DW N Fence.txt	6/28/2017	2:01:24 PM	0115250009	6/28/2017	7:46:24 AM	25	1.89	33.5	22	742	
1429 DW N Fence.txt	6/28/2017	2:16:24 PM	0115250009	6/28/2017	7:46:24 AM	26	2.03	33.5	23	742	
1429 DW N Fence.txt	6/28/2017	2:31:24 PM	0115250009	6/28/2017	7:46:24 AM	27	1.62	34.5	21	742	
1429 DW N Fence.txt	6/28/2017	2:46:24 PM	0115250009	6/28/2017	7:46:24 AM	28	1.73	34.1	22	742	
1429 DW N Fence.txt	6/28/2017	3:01:24 PM	0115250009	6/28/2017	7:46:24 AM	29	1.88	34.3	22	742	
1429 DW N Fence.txt	6/28/2017	3:16:24 PM	0115250009	6/28/2017	7:46:24 AM	30	2	32.9	22	742	
1429 DW N Fence.txt	6/28/2017	3:31:24 PM	0115250009	6/28/2017	7:46:24 AM	31	2.05	33.1	23	742	
1429 DW N Fence.txt	6/28/2017	3:46:24 PM	0115250009	6/28/2017	7:46:24 AM	32	2.31	33	23	742	
1429 DW N Fence.txt	6/28/2017	4:01:24 PM	0115250009	6/28/2017	7:46:24 AM	33	2.31	33.1	23	742	
1429 DW N Fence.txt	6/28/2017	4:16:24 PM	0115250009	6/28/2017	7:46:24 AM	34	2.64	33	23	742	
1429 DW N Fence.txt	6/28/2017	4:31:24 PM	0115250009	6/28/2017	7:46:24 AM	35	2.92	32.5	24	742	
2535 UW S Center Silt Fence.txt	6/28/2017	8:06:35 AM	CM15111015	6/28/2017	7:51:35 AM	1	10.68	16	55	744	
2535 UW S Center Silt Fence.txt	6/28/2017	8:21:35 AM	CM15111015	6/28/2017	7:51:35 AM	2	6.6	16.9	54	744	
2535 UW S Center Silt Fence.txt	6/28/2017	8:36:35 AM	CM15111015	6/28/2017	7:51:35 AM	3	6.12	18.9	49	744	
2535 UW S Center Silt Fence.txt	6/28/2017	8:51:35 AM	CM15111015	6/28/2017	7:51:35 AM	4	8.01	21.4	45	744	
2535 UW S Center Silt Fence.txt	6/28/2017	9:06:35 AM	CM15111015	6/28/2017	7:51:35 AM	5	2.08	23.6	39	744	
2535 UW S Center Silt Fence.txt	6/28/2017	9:21:35 AM	CM15111015	6/28/2017	7:51:35 AM	6	2.17	25.2	34	744	
2535 UW S Center Silt Fence.txt	6/28/2017	9:36:35 AM	CM15111015	6/28/2017	7:51:35 AM	7	3.57	26.4	33	744	
2535 UW S Center Silt Fence.txt	6/28/2017	9:51:35 AM	CM15111015	6/28/2017	7:51:35 AM	8	-0.68	27.5	33	744	
2535 UW S Center Silt Fence.txt	6/28/2017	10:06:35 AM	CM15111015	6/28/2017	7:51:35 AM	9	8.74	28.6	30	744	
2535 UW S Center Silt Fence.txt	6/28/2017	10:21:35 AM	CM15111015	6/28/2017	7:51:35 AM	10	8.17	29.5	29	744	
2535 UW S Center Silt Fence.txt	6/28/2017	10:36:35 AM	CM15111015	6/28/2017	7:51:35 AM	11	2.61	30.4	29	744	
2535 UW S Center Silt Fence.txt	6/28/2017	10:51:35 AM	CM15111015	6/28/2017	7:51:35 AM	12	13.97	31.2	27	744	
2535 UW S Center Silt Fence.txt	6/28/2017	11:06:35 AM	CM15111015	6/28/2017	7:51:35 AM	13	3.59	31.6	26	744	
2535 UW S Center Silt Fence.txt	6/28/2017	11:21:35 AM	CM15111015	6/28/2017	7:51:35 AM	14	-0.64	32.5	25	744	
2535 UW S Center Silt Fence.txt	6/28/2017	11:36:35 AM	CM15111015	6/28/2017	7:51:35 AM	15	3.89	33.5	24	744	
2535 UW S Center Silt Fence.txt	6/28/2017	11:51:35 AM	CM15111015	6/28/2017	7:51:35 AM	16	26.19	34.7	22	744	
2535 UW S Center Silt Fence.txt	6/28/2017	12:06:35 PM	CM15111015	6/28/2017	7:51:35 AM	17	6.83	33.6	23	744	
2535 UW S Center Silt Fence.txt	6/28/2017	12:21:35 PM	CM15111015	6/28/2017	7:51:35 AM	18	7.43	32.6	23	744	
2535 UW S Center Silt Fence.txt	6/28/2017	12:36:35 PM	CM15111015	6/28/2017	7:51:35 AM	19	4.73	33	23	744	
2535 UW S Center Silt Fence.txt	6/28/2017	12:51:35 PM	CM15111015	6/28/2017	7:51:35 AM	20	13.48	31.8	24	744	
2535 UW S Center Silt Fence.txt	6/28/2017	1:06:35 PM	CM15111015	6/28/2017	7:51:35 AM	21	2.44	32.9	23	744	
2535 UW S Center Silt Fence.txt	6/28/2017	1:21:35 PM	CM15111015	6/28/2017	7:51:35 AM	22	3.21	35.4	21	744	
2535 UW S Center Silt Fence.txt	6/28/2017	1:36:35 PM	CM15111015	6/28/2017	7:51:35 AM	23	8.18	36.2	19	744	
2535 UW S Center Silt Fence.txt	6/28/2017	1:51:35 PM	CM15111015	6/28/2017	7:51:35 AM	24	2.85	36.7	19	744	
2535 UW S Center Silt Fence.txt	6/28/2017	2:06:35 PM	CM15111015	6/28/2017	7:51:35 AM	25	-1.24	36.4	19	744	
2535 UW S Center Silt Fence.txt	6/28/2017	2:21:35 PM	CM15111015	6/28/2017	7:51:35 AM	26	14.15	36.4	19	744	
2535 UW S Center Silt Fence.txt	6/28/2017	2:36:35 PM	CM15111015	6/28/2017	7:51:35 AM	27	20.06	36.6	19	744	
2535 UW S Center Silt Fence.txt	6/28/2017	2:51:35 PM	CM15111015	6/28/2017	7:51:35 AM	28	18.23	36.2	19	744	
2535 UW S Center Silt Fence.txt	6/28/2017	3:06:35 PM	CM15111015	6/28/2017	7:51:35 AM	29	39.06	35.5	19	744	

Summary of CAMP Monitoring

Beech and Bonaparte

Former Sperry Remington Site - North Portion
Elmira, New York

Unit Location	Record Date	Record Time	Unit Serial Number	Start Date	Start Time	Record #	Dust Concentration in µg/m^3	Temp	RHumidity	AtmoPressure in mm/Hg	Notes
2535 UW S Center Silt Fence.txt	6/28/2017	3:21:35 PM	CM15111015	6/28/2017	7:51:35 AM	30	14.06	34.1	20	744	
2535 UW S Center Silt Fence.txt	6/28/2017	3:36:35 PM	CM15111015	6/28/2017	7:51:35 AM	31	0.15	34.1	20	744	
2535 UW S Center Silt Fence.txt	6/28/2017	3:51:35 PM	CM15111015	6/28/2017	7:51:35 AM	32	11.8	33.4	20	744	
2535 UW S Center Silt Fence.txt	6/28/2017	4:06:35 PM	CM15111015	6/28/2017	7:51:35 AM	33	10.27	33.3	21	744	
2535 UW S Center Silt Fence.txt	6/28/2017	4:21:35 PM	CM15111015	6/28/2017	7:51:35 AM	34	10.32	32.9	21	744	
801 DW NE Corner Fence.txt	6/28/2017	8:02:43 AM	0115249188	6/28/2017	7:47:43 AM	1	1.27	16.1	55	742	
801 DW NE Corner Fence.txt	6/28/2017	8:17:43 AM	0115249188	6/28/2017	7:47:43 AM	2	0.25	15.4	57	742	
801 DW NE Corner Fence.txt	6/28/2017	8:32:43 AM	0115249188	6/28/2017	7:47:43 AM	3	0.11	16.1	56	742	
801 DW NE Corner Fence.txt	6/28/2017	8:47:43 AM	0115249188	6/28/2017	7:47:43 AM	4	1.09	17.7	50	742	
801 DW NE Corner Fence.txt	6/28/2017	9:02:43 AM	0115249188	6/28/2017	7:47:43 AM	5	-0.22	19.2	47	742	
801 DW NE Corner Fence.txt	6/28/2017	9:17:43 AM	0115249188	6/28/2017	7:47:43 AM	6	0.79	21.4	43	742	
801 DW NE Corner Fence.txt	6/28/2017	9:32:43 AM	0115249188	6/28/2017	7:47:43 AM	7	2.26	22.7	39	742	
801 DW NE Corner Fence.txt	6/28/2017	9:47:43 AM	0115249188	6/28/2017	7:47:43 AM	8	1.87	23.2	37	742	
801 DW NE Corner Fence.txt	6/28/2017	10:02:43 AM	0115249188	6/28/2017	7:47:43 AM	9	1.4	24.3	35	742	
801 DW NE Corner Fence.txt	6/28/2017	10:17:43 AM	0115249188	6/28/2017	7:47:43 AM	10	1.67	26.1	32	742	
801 DW NE Corner Fence.txt	6/28/2017	10:32:43 AM	0115249188	6/28/2017	7:47:43 AM	11	1.35	26.8	31	742	
801 DW NE Corner Fence.txt	6/28/2017	10:47:43 AM	0115249188	6/28/2017	7:47:43 AM	12	2.57	27.5	30	742	
801 DW NE Corner Fence.txt	6/28/2017	11:02:43 AM	0115249188	6/28/2017	7:47:43 AM	13	1.54	27.9	29	742	
801 DW NE Corner Fence.txt	6/28/2017	11:17:43 AM	0115249188	6/28/2017	7:47:43 AM	14	1.92	28.8	28	742	
801 DW NE Corner Fence.txt	6/28/2017	11:32:43 AM	0115249188	6/28/2017	7:47:43 AM	15	1.88	29.3	26	742	
801 DW NE Corner Fence.txt	6/28/2017	11:47:43 AM	0115249188	6/28/2017	7:47:43 AM	16	2.02	30.2	25	742	
801 DW NE Corner Fence.txt	6/28/2017	12:02:43 PM	0115249188	6/28/2017	7:47:43 AM	17	2.58	30.2	25	742	
801 DW NE Corner Fence.txt	6/28/2017	12:17:43 PM	0115249188	6/28/2017	7:47:43 AM	18	2.18	29.2	26	742	
801 DW NE Corner Fence.txt	6/28/2017	12:32:43 PM	0115249188	6/28/2017	7:47:43 AM	19	2.13	29.1	26	742	
801 DW NE Corner Fence.txt	6/28/2017	12:47:43 PM	0115249188	6/28/2017	7:47:43 AM	20	4.8	29.3	25	742	
801 DW NE Corner Fence.txt	6/28/2017	1:02:43 PM	0115249188	6/28/2017	7:47:43 AM	21	1.7	28.9	26	742	
801 DW NE Corner Fence.txt	6/28/2017	1:17:43 PM	0115249188	6/28/2017	7:47:43 AM	22	3.13	30.6	24	742	
801 DW NE Corner Fence.txt	6/28/2017	1:32:43 PM	0115249188	6/28/2017	7:47:43 AM	23	2.41	31.7	22	742	
801 DW NE Corner Fence.txt	6/28/2017	1:47:43 PM	0115249188	6/28/2017	7:47:43 AM	24	1.74	31.8	22	740	
801 DW NE Corner Fence.txt	6/28/2017	2:02:43 PM	0115249188	6/28/2017	7:47:43 AM	25	3.09	32.6	21	740	
801 DW NE Corner Fence.txt	6/28/2017	2:17:43 PM	0115249188	6/28/2017	7:47:43 AM	26	2.22	32.7	20	740	
801 DW NE Corner Fence.txt	6/28/2017	2:32:43 PM	0115249188	6/28/2017	7:47:43 AM	27	2.3	33.9	20	740	
801 DW NE Corner Fence.txt	6/28/2017	2:47:43 PM	0115249188	6/28/2017	7:47:43 AM	28	2.13	34	19	740	
801 DW NE Corner Fence.txt	6/28/2017	3:02:43 PM	0115249188	6/28/2017	7:47:43 AM	29	2.7	34.4	18	740	
801 DW NE Corner Fence.txt	6/28/2017	3:17:43 PM	0115249188	6/28/2017	7:47:43 AM	30	2.49	32.9	19	740	
801 DW NE Corner Fence.txt	6/28/2017	3:32:43 PM	0115249188	6/28/2017	7:47:43 AM	31	2.11	32.9	20	740	
801 DW NE Corner Fence.txt	6/28/2017	3:47:43 PM	0115249188	6/28/2017	7:47:43 AM	32	2.32	33.1	20	740	
801 DW NE Corner Fence.txt	6/28/2017	4:02:43 PM	0115249188	6/28/2017	7:47:43 AM	33	3.47	32.9	20	740	
801 DW NE Corner Fence.txt	6/28/2017	4:17:43 PM	0115249188	6/28/2017	7:47:43 AM	34	2.55	33	20	740	
801 DW NE Corner Fence.txt	6/28/2017	4:32:43 PM	0115249188	6/28/2017	7:47:43 AM	35	3.07	32.4	20	740	
818 DW NE Fence.txt	6/28/2017	8:01:31 AM	0115249311	6/28/2017	7:46:31 AM	1	-1.73	18.4	52	742	
818 DW NE Fence.txt	6/28/2017	8:16:31 AM	0115249311	6/28/2017	7:46:31 AM	2	-2.26	21.4	47	742	
818 DW NE Fence.txt	6/28/2017	8:31:31 AM	0115249311	6/28/2017	7:46:31 AM	3	-2.38	25.3	38	742	
818 DW NE Fence.txt	6/28/2017	8:46:31 AM	0115249311	6/28/2017	7:46:31 AM	4	-2.14	27.9	32	744	
818 DW NE Fence.txt	6/28/2017	9:01:31 AM	0115249311	6/28/2017	7:46:31 AM	5	-2.72	29.8	28	744	
818 DW NE Fence.txt	6/28/2017	9:16:31 AM	0115249311	6/28/2017	7:46:31 AM	6	-2.69	30.6	27	744	
818 DW NE Fence.txt	6/28/2017	9:31:31 AM	0115249311	6/28/2017	7:46:31 AM	7	-0.59	30.6	27	744	
818 DW NE Fence.txt	6/28/2017	9:46:31 AM	0115249311	6/28/2017	7:46:31 AM	8	-3.58	31.7	25	744	
818 DW NE Fence.txt	6/28/2017	10:01:31 AM	0115249311	6/28/2017	7:46:31 AM	9	-3.54	32.2	25	744	
818 DW NE Fence.txt	6/28/2017	10:16:31 AM	0115249311	6/28/2017	7:46:31 AM	10	-3.6	32.8	24	744	
818 DW NE Fence.txt	6/28/2017	10:31:31 AM	0115249311	6/28/2017	7:46:31 AM	11	-3.59	32.9	24	744	
818 DW NE Fence.txt	6/28/2017	10:46:31 AM	0115249311	6/28/2017	7:46:31 AM	12	-3.38	33	24	744	
818 DW NE Fence.txt	6/28/2017	11:01:31 AM	0115249311	6/28/2017	7:46:31 AM	13	-3.24	33.5	24	744	
818 DW NE Fence.txt	6/28/2017	11:16:31 AM	0115249311	6/28/2017	7:46:31 AM	14	-3.13	33.8	23	744	
818 DW NE Fence.txt	6/28/2017	11:31:31 AM	0115249311	6/28/2017	7:46:31 AM	15	-2.6	34	22	744	
818 DW NE Fence.txt	6/28/2017	11:46:31 AM	0115249311	6/28/2017	7:46:31 AM	16	-3.03	34.2	22	744	
818 DW NE Fence.txt	6/28/2017	12:01:31 PM	0115249311	6/28/2017	7:46:31 AM	17	-2.77	33.1	24	744	
818 DW NE Fence.txt	6/28/2017	12:16:31 PM	0115249311	6/28/2017	7:46:31 AM	18	-2.73	32.3	25	744	
818 DW NE Fence.txt	6/28/2017	12:31:31 PM	0115249311	6/28/2017	7:46:31 AM	19	-2.81	32	25	744	
818 DW NE Fence.txt	6/28/2017	12:46:31 PM	0115249311	6/28/2017	7:46:31 AM	20	-2.89	30.6	25	744	
818 DW NE Fence.txt	6/28/2017	1:01:31 PM	0115249311	6/28/2017	7:46:31 AM	21	-2.79	30.5	26	744	
818 DW NE Fence.txt	6/28/2017	1:16:31 PM	0115249311	6/28/2017	7:46:31 AM	22	-2.5	31.5	25	744	
818 DW NE Fence.txt	6/28/2017	1:31:31 PM	0115249311	6/28/2017	7:46:31 AM	23	-1.97	32.4	24	744	
818 DW NE Fence.txt	6/28/2017	1:46:31 PM	0115249311	6/28/2017	7:46:31 AM	24	-3.17	33.1	23	744	
818 DW NE Fence.txt	6/28/2017	2:01:31 PM	0115249311	6/28/2017	7:46:31 AM	25	-2.57	32.8	23	744	
818 DW NE Fence.txt	6/28/2017	2:16:31 PM	0115249311	6/28/2017	7:46:31 AM	26	-2.85	32.7	23	744	
818 DW NE Fence.txt	6/28/2017	2:31:31 PM	0115249311	6/28/2017	7:46:31 AM	27	-2.82	32.8	23	744	
818 DW NE Fence.txt	6/28/2017	2:46:31 PM	0115249311	6/28/2017	7:46:31 AM	28	-2.71	32.4	23	742	
818 DW NE Fence.txt	6/28/2017	3:01:31 PM	0115249311	6/28/2017	7:46:31 AM	29	-2.56	33	23	742	
818 DW NE Fence.txt	6/28/2017	3:16:31 PM	0115249311	6/28/2017	7:46:31 AM	30	-1.61	32.5	23	742	
818 DW NE Fence.txt	6/28/2017	3:31:31 PM	0115249311	6/28/2017	7:46:31 AM	31	-2.31	32.8	23	742	
818 DW NE Fence.txt	6/28/2017	3:46:31 PM	0115249311	6/28/2017	7:46:31 AM	32	-2.37	33	23	742	
818 DW NE Fence.txt	6/28/2017	4:01:31 PM	0115249311	6/28/2017	7:46:31 AM	33	-2.02	34.2	22	742	
818 DW NE Fence.txt	6/28/2017	4:16:31 PM	0115249311	6/28/2017	7:46:31 AM	34	-1.79	34.2	21	742	
818 DW NE Fence.txt	6/28/2017	4:31:31 PM	0115249311	6/28/2017	7:46:31 AM	35	-1.9	34.5	21	742	
1421 DW NW Corner tennis court.txt	6/29/2017	11:42:57 AM	0115249975	6/29/2017	11:27:57 AM	1	-4.68	26.5	38	740	
1421 DW NW Corner tennis court.txt	6/29/2017	11:57:57 AM	0115249975	6/29/2017	11:27:57 AM	2	-6.69	27	37	740	
1421 DW NW Corner tennis court.txt	6/29/2017	12:12:57 PM	0115249975	6/29/2017	11:27:57 AM	3	-6.04	27.3	37	740	
1421 DW NW Corner tennis court.txt	6/29/2017	12:27:57 PM	0115249975	6/29/2017	11:27:57 AM	4	-5.07	27.7	37	740	
1421 DW NW Corner tennis court.txt	6/29/2017	12:42:57 PM	0115249975	6/29/2017	11:27:57 AM	5	-5.36	28.2	37	740	
1421 DW NW Corner tennis court.txt	6/29/2017	12:57:57 PM	0115249975	6/29/2017	11:27:57 AM	6	-5.19	28.5	36	740	
1421 DW NW Corner tennis court.txt	6/29/2017	1:12:57 PM	0115249975	6/29/2017	11:27:57 AM	7	-5.06	28.8	35	740	
1421 DW NW Corner tennis court.txt	6/29/2017	1:27:57 PM	0115249975	6/29/2017	11:27:57 AM	8	-3.3	28.9	36	740	
1421 DW NW Corner tennis court.txt	6/29/2017	1:42:57 PM	0115249975	6/29/2017	11:27:57 AM	9	-2.01	29	36	740	
1421 DW NW Corner tennis court.txt	6/29/2017	1:57:57 PM	0115249975	6/29/2017	11:27:57 AM	10	0.7	29.1	36	740	
1421 DW NW Corner tennis court.txt	6/29/2017	2:12:57 PM	0115249975	6/29/2017	11:27:57 AM	11	-2.76	29.2	36	740	
1421 DW NW Corner tennis court.txt	6/29/2017	2:27:57 PM	0115249975	6/29/2017	11:27:57 AM	12	-4.37	29.3	37	738	
1421 DW NW Corner tennis court.txt	6/29/2017	2:42:57 PM	0115249975	6/29/2017	11:27:57 AM	13	-3.15	29.5	36	740	
1421 DW NW Corner tennis court.txt	6/29/2017	2:57:57 PM	0115249975	6/29/2017	11:27:57 AM	14	-1.13	29.5	36	738	
1421 DW NW Corner tennis court.txt	6/29/2017	3:12:57 PM	0115249975	6/29/2017	11:27:57 AM	15	-4.53	29.6	36	738	
1421 DW NW Corner tennis court.txt	6/29/2017	3:27:57 PM	0115249975	6/29/2017	11:27:57 AM	16	-4.58	29.9	36	738	
1421 DW NW Corner tennis court.txt	6/29/2017	3:42:57 PM	0115249975	6/29/2017	11:27:57 AM	17	-3.68	30	36	738	
1421 DW NW Corner tennis court.txt	6/29/2017	3:57:57 PM	0115249975	6/29/2017	11:27:57 AM	18	-4.55	30	35	738	
1421 DW NW Corner tennis court.txt	6/29/2017	4:12:57 PM	0115249975	6/29/2017	11:27:57 AM	19	-3.02	29.9	35	738	
1421 DW NW Corner tennis court.txt	6/29/2017	4:27:57 PM	0115249975	6/29/2017	11:27:57 AM	20	-4.12	29.8	36	738	
1422 DW NE FENCE SP 1.txt	6/29/2017	4:57:10 AM	0115249980	6/29/2017	4:42:10 AM	1	6.86	16.5	64	742	
1422 DW NE FENCE SP 1.txt	6/29/2017	5:12:10 AM	0115249980	6/29/2017	4:42:10 AM	2	-1.23	15.9	67	742	
1422 DW NE FENCE SP 1.txt	6/29/2017	5:27:10 AM	0115249980	6/29/2017	4:42:10 AM	3	-1.15	15.6	70	742	
1422 DW NE FENCE SP 1.txt	6/29/2017	5:42:10 AM	0115249980	6/29/2017	4:42:10 AM	4	0.59	15.8	69	742	
1422 DW NE FENCE SP 1.txt	6/29/2017	5:57:10 AM	0115249980	6/29/2017	4:42:10 AM	5	0.62	16.1	69	742	
1422 DW NE FENCE SP 1.txt	6/29/2017	6:12:10 AM	0115249980	6/29/2017	4:42:10 AM	6	0.38	16.4	68	742	
1422 DW NE FENCE SP 1.txt	6/29/2017	6:27:10 AM	0115249980	6/29/2017	4:42:10 AM	7	-0.29	17	67	742	
1422 DW NE FENCE SP 1.txt	6/29/2017	6:42:10 AM	0115249980	6/29/2017	4:42:10 AM	8	-2.07	17.8	65	742	
1422 DW NE FENCE SP 1.txt	6/29/2017	6:57:10 AM	0115249980	6/29/2017	4:42:10 AM	9	1.42	18.8	62	740	
1422 DW NE FENCE SP 1.txt	6/29/2017	7:12:10 AM	0115249980	6/29/2017	4:42:10 AM	10	-3.57	20	60	740	
1422 DW NE FENCE SP 1.txt	6/29/2017	7:27:10 AM	0115249980	6/29/2017	4:42:10 AM	11	-4.2	21.1	54	740	
1422 DW NE FENCE SP 1.txt	6/29/2017	7:42:10 AM	0115249980	6/29/2017	4:42:10 AM	12	-4.49	21.9	51	740	
1422 DW NE FENCE SP 1.txt	6/29/2017	7:57:10 AM	0115249980	6/29/2017	4:42:10 AM	13	1.2	22.6	48	740	
1422 DW NE FENCE SP 1.txt	6/29/2017	8:12:10 AM	0115249980	6/29/2017	4:42:10 AM	14	-3.46	23.5	46	740	
1422 DW NE FENCE SP 1.txt	6/29/2017	8:27:10 AM	0115249980	6/29/2017	4:42:10 AM	15	-4.5	24.1	44	740	
1422 DW NE FENCE SP 1.txt	6/29/2017	8:42:10 AM	0115249980	6/29/2017	4:42:10 AM	16	-4.76	24.5	43	740	
1422 DW NE FENCE SP 1.txt	6/29/2017	8:57:10 AM	0115249980	6/29/2017	4:42:10 AM	17	-4.28	24.8	42	740	
1422 DW NE FENCE SP 1.txt	6/29/2017	9:12:10 AM	0115249980	6/29/2017	4:42:10 AM	18	6.24	24.7	43	740	
1422 DW NE FENCE SP 1.txt	6/29/2017	9:27:10 AM	0115249980	6/29/2017	4:42:10 AM	19	-4.32	25.1	43	740	
1422 DW NE FENCE SP 1.txt	6/29/2017	9:42:10 AM	0115249980	6/29/2017	4:42:10 AM	20	-3.58	25.6	43	740	
1422 DW NE FENCE SP 1.txt	6/29/2017	9:57:10 AM	0115249980	6/29/2017	4:42:10 AM	21	-3.32	26.2	42	740	
1422 DW NE FENCE SP 1.txt	6/29/2017	10:12:10 AM	0115249980	6/29/2017	4:42:10 AM	22	7.92	26.5	42	740	
1422 DW NE FENCE SP 1.txt	6/29/2017	10:27:10 AM	0115249980	6/29/2017	4:42:10 AM	23	-3.83	26.5	42	740	
1422 DW NE FENCE SP 1.txt	6/29/2017	10:42:10 AM	0115249980	6/29/2017	4:42:10 AM	24	1.27	26.7	41	740	
1422 DW NE FENCE SP 1.txt	6/29/2017	10:57:10 AM	0115249980	6/29/2017	4:42:10 AM	25	-1.84	26.8	41	740	
1422 DW NE FENCE SP 1.txt	6/29/2017	11:12:10 AM	0115249980	6/29/2017	4:42:10 AM	26	2.57	27.1	41	740	
1422 DW NE FENCE SP 1.txt	6/29/2017	11:27:10 AM	0115249980	6/29/2017	4:42:10 AM	27	-2.75	27.7	41	740	
1422 DW NE FENCE SP 1.txt	6/29/2017	11:42:10 AM	0115249980	6/29/2017	4:42:10 AM	28	-3.83	28.3	39	740	
1422 DW NE FENCE SP 1.txt	6/29/2017	11:57:10 AM	0115249980	6/29/2017	4:42:10 AM	29	-2.91	28.4	39	740	
1422 DW NE FENCE SP 1.txt	6/29/2017	12:12:10 PM	0115249980	6/29/2017	4:42:10 AM	30	1.99	28.6	39	740	

Summary of CAMP Monitoring

Beech and Bonaparte

Former Sperry Remington Site - North Portion
Elmira, New York

Unit Location	Record Date	Record Time	Unit Serial Number	Start Date	Start Time	Record #	Dust Concentration in µg/m^3	Temp	RHumidity	AtmoPressure in mm/Hg	Notes
1422 DW NE FENCE SP 1.txt	6/29/2017	12:27:10 PM	0115249980	6/29/2017	4:42:10 AM	31	9.78	29	38	738	
1422 DW NE FENCE SP 1.txt	6/29/2017	12:42:10 PM	0115249980	6/29/2017	4:42:10 AM	32	16.61	29.2	38	738	
1422 DW NE FENCE SP 1.txt	6/29/2017	12:57:10 PM	0115249980	6/29/2017	4:42:10 AM	33	-2.02	28.8	38	740	
1422 DW NE FENCE SP 1.txt	6/29/2017	1:12:10 PM	0115249980	6/29/2017	4:42:10 AM	34	-1	28.3	39	740	
1422 DW NE FENCE SP 1.txt	6/29/2017	1:27:10 PM	0115249980	6/29/2017	4:42:10 AM	35	5.81	28.1	40	738	
1422 DW NE FENCE SP 1.txt	6/29/2017	1:42:10 PM	0115249980	6/29/2017	4:42:10 AM	36	-3.09	27.7	42	738	
1422 DW NE FENCE SP 1.txt	6/29/2017	1:57:10 PM	0115249980	6/29/2017	4:42:10 AM	37	-3.44	27.4	43	738	
1429 DW N Center Tennis court.txt	6/29/2017	11:42:22 AM	0115250009	6/29/2017	11:27:22 AM	1	-9.04	29.5	35	740	
1429 DW N Center Tennis court.txt	6/29/2017	11:57:22 AM	0115250009	6/29/2017	11:27:22 AM	2	-13.25	30	34	740	
1429 DW N Center Tennis court.txt	6/29/2017	12:12:22 PM	0115250009	6/29/2017	11:27:22 AM	3	-13.22	30.2	34	740	
1429 DW N Center Tennis court.txt	6/29/2017	12:27:22 PM	0115250009	6/29/2017	11:27:22 AM	4	-14.28	30.7	34	740	
1429 DW N Center Tennis court.txt	6/29/2017	12:42:22 PM	0115250009	6/29/2017	11:27:22 AM	5	-13.67	31.4	33	740	
1429 DW N Center Tennis court.txt	6/29/2017	12:57:22 PM	0115250009	6/29/2017	11:27:22 AM	6	-12.36	31.8	32	740	
1429 DW N Center Tennis court.txt	6/29/2017	1:12:22 PM	0115250009	6/29/2017	11:27:22 AM	7	-13.89	31.8	32	740	
1429 DW N Center Tennis court.txt	6/29/2017	1:27:22 PM	0115250009	6/29/2017	11:27:22 AM	8	-6.17	31.6	33	740	
1429 DW N Center Tennis court.txt	6/29/2017	1:42:22 PM	0115250009	6/29/2017	11:27:22 AM	9	-2.04	31.8	33	740	
1429 DW N Center Tennis court.txt	6/29/2017	1:57:22 PM	0115250009	6/29/2017	11:27:22 AM	10	6.53	31.8	33	740	
1429 DW N Center Tennis court.txt	6/29/2017	2:12:22 PM	0115250009	6/29/2017	11:27:22 AM	11	-6.56	31.8	33	740	
1429 DW N Center Tennis court.txt	6/29/2017	2:27:22 PM	0115250009	6/29/2017	11:27:22 AM	12	-13.37	31.8	34	740	
1429 DW N Center Tennis court.txt	6/29/2017	2:42:22 PM	0115250009	6/29/2017	11:27:22 AM	13	-11.45	31.9	33	740	
1429 DW N Center Tennis court.txt	6/29/2017	2:57:22 PM	0115250009	6/29/2017	11:27:22 AM	14	-5.61	31.8	34	740	
1429 DW N Center Tennis court.txt	6/29/2017	3:12:22 PM	0115250009	6/29/2017	11:27:22 AM	15	-13.31	31.8	34	740	
1429 DW N Center Tennis court.txt	6/29/2017	3:27:22 PM	0115250009	6/29/2017	11:27:22 AM	16	-13.25	32.1	33	738	
1429 DW N Center Tennis court.txt	6/29/2017	3:42:22 PM	0115250009	6/29/2017	11:27:22 AM	17	-12.59	31.9	34	738	
1429 DW N Center Tennis court.txt	6/29/2017	3:57:22 PM	0115250009	6/29/2017	11:27:22 AM	18	-11.94	31.7	34	738	
1429 DW N Center Tennis court.txt	6/29/2017	4:12:22 PM	0115250009	6/29/2017	11:27:22 AM	19	-12.19	31.4	35	740	
1429 DW N Center Tennis court.txt	6/29/2017	4:27:22 PM	0115250009	6/29/2017	11:27:22 AM	20	-11.9	31.1	36	738	
1936 DW NW CORNER SP.txt	6/29/2017	4:54:53 AM	0115250202	6/29/2017	4:39:53 AM	1	1.83	16.8	65	742	
1936 DW NW CORNER SP.txt	6/29/2017	5:09:53 AM	0115250202	6/29/2017	4:39:53 AM	2	-1.99	15.9	69	742	
1936 DW NW CORNER SP.txt	6/29/2017	5:24:53 AM	0115250202	6/29/2017	4:39:53 AM	3	-1.78	15.5	71	742	
1936 DW NW CORNER SP.txt	6/29/2017	5:39:53 AM	0115250202	6/29/2017	4:39:53 AM	4	0.69	15.4	73	742	
1936 DW NW CORNER SP.txt	6/29/2017	5:54:53 AM	0115250202	6/29/2017	4:39:53 AM	5	1.56	15.7	72	742	
1936 DW NW CORNER SP.txt	6/29/2017	6:09:53 AM	0115250202	6/29/2017	4:39:53 AM	6	0.86	16.1	72	742	
1936 DW NW CORNER SP.txt	6/29/2017	6:24:53 AM	0115250202	6/29/2017	4:39:53 AM	7	0.53	16.6	71	740	
1936 DW NW CORNER SP.txt	6/29/2017	6:39:53 AM	0115250202	6/29/2017	4:39:53 AM	8	-3.05	18.7	65	740	
1936 DW NW CORNER SP.txt	6/29/2017	6:54:53 AM	0115250202	6/29/2017	4:39:53 AM	9	-0.75	21.1	58	740	
1936 DW NW CORNER SP.txt	6/29/2017	7:09:53 AM	0115250202	6/29/2017	4:39:53 AM	10	-3.09	23.7	51	740	
1936 DW NW CORNER SP.txt	6/29/2017	7:24:53 AM	0115250202	6/29/2017	4:39:53 AM	11	-4.7	25.5	45	740	
1936 DW NW CORNER SP.txt	6/29/2017	7:39:53 AM	0115250202	6/29/2017	4:39:53 AM	12	-3.54	27.1	41	740	
1936 DW NW CORNER SP.txt	6/29/2017	7:54:53 AM	0115250202	6/29/2017	4:39:53 AM	13	9.6	28.3	39	740	
1936 DW NW CORNER SP.txt	6/29/2017	8:09:53 AM	0115250202	6/29/2017	4:39:53 AM	14	-0.84	29.3	37	740	
1936 DW NW CORNER SP.txt	6/29/2017	8:24:53 AM	0115250202	6/29/2017	4:39:53 AM	15	0.11	29	36	740	
1936 DW NW CORNER SP.txt	6/29/2017	8:39:53 AM	0115250202	6/29/2017	4:39:53 AM	16	-0.82	28.6	38	740	
1936 DW NW CORNER SP.txt	6/29/2017	8:54:53 AM	0115250202	6/29/2017	4:39:53 AM	17	5.56	28.9	37	740	
1936 DW NW CORNER SP.txt	6/29/2017	9:09:53 AM	0115250202	6/29/2017	4:39:53 AM	18	0.75	28.5	38	740	
1936 DW NW CORNER SP.txt	6/29/2017	9:24:53 AM	0115250202	6/29/2017	4:39:53 AM	19	3.53	28.5	39	740	
1936 DW NW CORNER SP.txt	6/29/2017	9:39:53 AM	0115250202	6/29/2017	4:39:53 AM	20	-0.82	29.1	38	740	
1936 DW NW CORNER SP.txt	6/29/2017	9:54:53 AM	0115250202	6/29/2017	4:39:53 AM	21	-2.88	29.3	38	740	
1936 DW NW CORNER SP.txt	6/29/2017	10:09:53 AM	0115250202	6/29/2017	4:39:53 AM	22	58.4	29.6	39	740	
1936 DW NW CORNER SP.txt	6/29/2017	10:24:53 AM	0115250202	6/29/2017	4:39:53 AM	23	-3.01	29.5	38	740	
1936 DW NW CORNER SP.txt	6/29/2017	10:39:53 AM	0115250202	6/29/2017	4:39:53 AM	24	-1.98	29.8	38	740	
1936 DW NW CORNER SP.txt	6/29/2017	10:54:53 AM	0115250202	6/29/2017	4:39:53 AM	25	-1.39	30.1	38	740	
1936 DW NW CORNER SP.txt	6/29/2017	11:09:53 AM	0115250202	6/29/2017	4:39:53 AM	26	15.64	30.3	38	740	
1936 DW NW CORNER SP.txt	6/29/2017	11:24:53 AM	0115250202	6/29/2017	4:39:53 AM	27	1.54	30.6	38	740	
1936 DW NW CORNER SP.txt	6/29/2017	11:39:53 AM	0115250202	6/29/2017	4:39:53 AM	28	-3.34	31.1	37	740	
1936 DW NW CORNER SP.txt	6/29/2017	11:54:53 AM	0115250202	6/29/2017	4:39:53 AM	29	2.49	31.2	37	740	
1936 DW NW CORNER SP.txt	6/29/2017	12:09:53 PM	0115250202	6/29/2017	4:39:53 AM	30	0.24	31.1	37	740	
1936 DW NW CORNER SP.txt	6/29/2017	12:24:53 PM	0115250202	6/29/2017	4:39:53 AM	31	18.28	31.3	37	740	
1936 DW NW CORNER SP.txt	6/29/2017	12:39:53 PM	0115250202	6/29/2017	4:39:53 AM	32	7.09	31.2	38	740	
1936 DW NW CORNER SP.txt	6/29/2017	12:54:53 PM	0115250202	6/29/2017	4:39:53 AM	33	-1.94	30.9	37	740	
1936 DW NW CORNER SP.txt	6/29/2017	1:09:53 PM	0115250202	6/29/2017	4:39:53 AM	34	-1.55	30.6	38	740	
1936 DW NW CORNER SP.txt	6/29/2017	1:24:53 PM	0115250202	6/29/2017	4:39:53 AM	35	1.7	30.3	39	740	
1936 DW NW CORNER SP.txt	6/29/2017	1:39:53 PM	0115250202	6/29/2017	4:39:53 AM	36	0.98	29.5	42	740	
1936 DW NW CORNER SP.txt	6/29/2017	1:54:53 PM	0115250202	6/29/2017	4:39:53 AM	37	-3.34	29	43	740	
1954 UW CENTER FENCE SP 2.txt	6/29/2017	1:59:23 PM	0115250211	6/29/2017	1:44:23 PM	1	12.78	35.2	32	740	
1954 UW CENTER FENCE SP 2.txt	6/29/2017	2:14:23 PM	0115250211	6/29/2017	1:44:23 PM	2	15.02	37.8	28	740	
1954 UW CENTER FENCE SP 2.txt	6/29/2017	2:29:23 PM	0115250211	6/29/2017	1:44:23 PM	3	14.71	39.6	27	740	
1954 UW CENTER FENCE SP 2.txt	6/29/2017	2:44:23 PM	0115250211	6/29/2017	1:44:23 PM	4	15.13	40.7	25	740	
1954 UW CENTER FENCE SP 2.txt	6/29/2017	2:59:23 PM	0115250211	6/29/2017	1:44:23 PM	5	15.22	41.3	25	740	
1954 UW CENTER FENCE SP 2.txt	6/29/2017	3:14:23 PM	0115250211	6/29/2017	1:44:23 PM	6	15.4	41.9	24	740	
1954 UW CENTER FENCE SP 2.txt	6/29/2017	3:29:23 PM	0115250211	6/29/2017	1:44:23 PM	7	15.52	42.4	23	740	
1954 UW CENTER FENCE SP 2.txt	6/29/2017	3:44:23 PM	0115250211	6/29/2017	1:44:23 PM	8	15.67	42.4	23	740	
1954 UW CENTER FENCE SP 2.txt	6/29/2017	3:59:23 PM	0115250211	6/29/2017	1:44:23 PM	9	15.6	41.8	23	740	
1954 UW CENTER FENCE SP 2.txt	6/29/2017	4:14:23 PM	0115250211	6/29/2017	1:44:23 PM	10	15.49	40.8	24	740	
1954 UW CENTER FENCE SP 2.txt	6/29/2017	4:29:23 PM	0115250211	6/29/2017	1:44:23 PM	11	15.64	40.4	25	740	
1954 UW CENTER FENCE SP 2.txt	6/29/2017	4:44:23 PM	0115250211	6/29/2017	1:44:23 PM	12	14.85	40	26	740	
1954 UW CENTER FENCE SP 2.txt	6/29/2017	4:59:23 PM	0115250211	6/29/2017	1:44:23 PM	13	15.25	39.7	27	740	
1954 UW FENCE CENTER SP 1.txt	6/29/2017	7:59:21 AM	0115250211	6/29/2017	7:44:21 AM	1	12.77	22.5	51	742	
1954 UW FENCE CENTER SP 1.txt	6/29/2017	8:14:21 AM	0115250211	6/29/2017	7:44:21 AM	2	12.94	23	50	742	
1954 UW FENCE CENTER SP 1.txt	6/29/2017	8:29:21 AM	0115250211	6/29/2017	7:44:21 AM	3	13.16	23.9	49	742	
1954 UW FENCE CENTER SP 1.txt	6/29/2017	8:44:21 AM	0115250211	6/29/2017	7:44:21 AM	4	13.51	25.1	46	742	
1954 UW FENCE CENTER SP 1.txt	6/29/2017	8:59:21 AM	0115250211	6/29/2017	7:44:21 AM	5	13.77	26.3	43	742	
1954 UW FENCE CENTER SP 1.txt	6/29/2017	9:14:21 AM	0115250211	6/29/2017	7:44:21 AM	6	13.87	27.2	41	742	
2535 UW S tennis court.txt	6/29/2017	11:45:20 AM	CM15111015	6/29/2017	11:30:20 AM	1	39.98	29.9	32	742	
2535 UW S tennis court.txt	6/29/2017	12:00:20 PM	CM15111015	6/29/2017	11:30:20 AM	2	60.3	30.1	31	742	
2535 UW S tennis court.txt	6/29/2017	12:15:20 PM	CM15111015	6/29/2017	11:30:20 AM	3	-12.27	30.3	31	742	
2535 UW S tennis court.txt	6/29/2017	12:30:20 PM	CM15111015	6/29/2017	11:30:20 AM	4	4.67	30.8	31	742	
2535 UW S tennis court.txt	6/29/2017	12:45:20 PM	CM15111015	6/29/2017	11:30:20 AM	5	-8.43	31.7	30	742	
2535 UW S tennis court.txt	6/29/2017	1:00:20 PM	CM15111015	6/29/2017	11:30:20 AM	6	74.47	32.5	29	742	
2535 UW S tennis court.txt	6/29/2017	1:15:20 PM	CM15111015	6/29/2017	11:30:20 AM	7	89.42	32.8	29	742	
2535 UW S tennis court.txt	6/29/2017	1:30:20 PM	CM15111015	6/29/2017	11:30:20 AM	8	16.31	33.1	29	742	
2535 UW S tennis court.txt	6/29/2017	1:45:20 PM	CM15111015	6/29/2017	11:30:20 AM	9	47.84	33.6	28	742	
2535 UW S tennis court.txt	6/29/2017	2:00:20 PM	CM15111015	6/29/2017	11:30:20 AM	10	12.75	33.6	28	742	
2535 UW S tennis court.txt	6/29/2017	2:15:20 PM	CM15111015	6/29/2017	11:30:20 AM	11	21.78	33.6	28	740	
2535 UW S tennis court.txt	6/29/2017	2:30:20 PM	CM15111015	6/29/2017	11:30:20 AM	12	1.02	33.9	28	740	
2535 UW S tennis court.txt	6/29/2017	2:45:20 PM	CM15111015	6/29/2017	11:30:20 AM	13	43.08	33.9	28	740	
2535 UW S tennis court.txt	6/29/2017	3:00:20 PM	CM15111015	6/29/2017	11:30:20 AM	14	18.94	33.9	29	740	
2535 UW S tennis court.txt	6/29/2017	3:15:20 PM	CM15111015	6/29/2017	11:30:20 AM	15	7.58	34.1	29	740	
2535 UW S tennis court.txt	6/29/2017	3:30:20 PM	CM15111015	6/29/2017	11:30:20 AM	16	21.95	34.5	28	740	
2535 UW S tennis court.txt	6/29/2017	3:45:20 PM	CM15111015	6/29/2017	11:30:20 AM	17	36.99	34.1	28	740	
2535 UW S tennis court.txt	6/29/2017	4:00:20 PM	CM15111015	6/29/2017	11:30:20 AM	18	112.82	33.4	29	740	
2535 UW S tennis court.txt	6/29/2017	4:15:20 PM	CM15111015	6/29/2017	11:30:20 AM	19	53.78	33.1	30	740	
2980 DW NE CORNER SP.txt	6/29/2017	4:56:01 AM	CM15111014	6/29/2017	4:41:01 AM	1	-2.67	18.5	62	742	
2980 DW NE CORNER SP.txt	6/29/2017	5:11:01 AM	CM15111014	6/29/2017	4:41:01 AM	2	-2.71	17.6	67	742	
2980 DW NE CORNER SP.txt	6/29/2017	5:26:01 AM	CM15111014	6/29/2017	4:41:01 AM	3	-2.89	17.4	69	742	
2980 DW NE CORNER SP.txt	6/29/2017	5:41:01 AM	CM15111014	6/29/2017	4:41:01 AM	4	-0.79	17.3	69	742	
2980 DW NE CORNER SP.txt	6/29/2017	5:56:01 AM	CM15111014	6/29/2017	4:41:01 AM	5	-1.49	17.5	69	742	
2980 DW NE CORNER SP.txt	6/29/2017	6:11:01 AM	CM15111014	6/29/2017	4:41:01 AM	6	-1.39	17.9	69	742	
2980 DW NE CORNER SP.txt	6/29/2017	6:26:01 AM	CM15111014	6/29/2017	4:41:01 AM	7	-1.62	18.5	68	742	
2980 DW NE CORNER SP.txt	6/29/2017	6:41:01 AM	CM15111014	6/29/2017	4:41:01 AM	8	-4.18	20	63	742	
2980 DW NE CORNER SP.txt	6/29/2017	6:56:01 AM	CM15111014	6/29/2017	4:41:01 AM	9	-1.18	22.4	58	742	
2980 DW NE CORNER SP.txt	6/29/2017	7:11:01 AM	CM15111014	6/29/2017	4:41:01 AM	10	-5.87	25.3	50	742	
2980 DW NE CORNER SP.txt	6/29/2017	7:26:01 AM	CM15111014	6/29/2017	4:41:01 AM	11	-6.51	27.3	43	742	
2980 DW NE CORNER SP.txt	6/29/2017	7:41:01 AM	CM15111014	6/29/2017	4:41:01 AM	12	-6.9	28.8	40	742	
2980 DW NE CORNER SP.txt	6/29/2017	7:56:01 AM	CM15111014	6/29/2017	4:41:01 AM	13	-5.36	29.7	37	742	
2980 DW NE CORNER SP.txt	6/29/2017	8:11:01 AM	CM15111014	6/29/2017	4:41:01 AM	14	-6.01	30.2	35	742	
2980 DW NE CORNER SP.txt	6/29/2017	8:26:01 AM	CM15111014	6/29/2017	4:41:01 AM	15	-6.64	29.8	35	742	
2980 DW NE CORNER SP.txt	6/29/2017	8:41:01 AM	CM15111014	6/29/2017	4:41:01 AM	16	-6.37	29.6	36	742	
2980 DW NE CORNER SP.txt	6/29/2017	8:56:01 AM	CM15111014	6/29/2017	4:41:01 AM	17	-3.64	29.7	36	742	
2980 DW NE CORNER SP.txt	6/29/2017	9:11:01 AM	CM15111014	6/29/2017	4:41:01 AM	18	-5.84	29.4	37	740	
2980 DW NE CORNER SP.txt	6/29/2017	9:26:01 AM	CM15111014	6/29/2017	4:41:01 AM	19	-2.95	29.8	37	742	
2980 DW NE CORNER SP.txt	6/29/2017	9:41:01 AM	CM15111014	6/29/2017	4:41:01 AM	20	-6.16	30.6	36	740	
2980 DW NE CORNER SP.txt	6/29/2017	9:56:01 AM	CM15111014	6/29/2017	4:41:01 AM	21	-6.29	30.7	36	740	
2980 DW NE CORNER SP.txt	6/29/2017	10:11:01 AM	CM15111014	6/29/2017	4:41:01 AM	22	1.28	30.8	36	740	
2980 DW NE CORNER SP.txt	6/29/2017	10:26:01 AM	CM15111014	6/29/2017	4:41:01 AM	23	-4.84	30.6	36	740	
2980 DW NE CORNER SP.txt	6/29/2017	10:41:01 AM	CM15111014	6/29/2017	4:41:01 AM	24	-4.78	31.2	36	740	
2980 DW NE CORNER SP.txt	6/29/2017	10:56:01 AM	CM15111014	6/29/2017	4:41:01 AM	25	-5.8	31.6	35	740	
2980 DW NE CORNER SP.txt	6/29/2017	11:11:01 AM	CM15111014	6/29/2017	4:41:01 AM	26	-1.2	31.8	35	740	

Summary of CAMP Monitoring

Beech and Bonaparte

Former Sperry Remington Site - North Portion
Elmira, New York

Unit Location	Record Date	Record Time	Unit Serial Number	Start Date	Start Time	Record #	Dust Concentration in µg/m^3	Temp	RHumidity	AtmoPressure in mm/Hg	Notes
2980 DW NE CORNER SP.txt	6/29/2017	11:26:01 AM	CM15111014	6/29/2017	4:41:01 AM	27	-3.78	32	36	740	
2980 DW NE CORNER SP.txt	6/29/2017	11:41:01 AM	CM15111014	6/29/2017	4:41:01 AM	28	-5.89	32.4	35	740	
2980 DW NE CORNER SP.txt	6/29/2017	11:56:01 AM	CM15111014	6/29/2017	4:41:01 AM	29	-4.08	32.3	35	740	
2980 DW NE CORNER SP.txt	6/29/2017	12:11:01 PM	CM15111014	6/29/2017	4:41:01 AM	30	-1.3	32.3	35	740	
2980 DW NE CORNER SP.txt	6/29/2017	12:26:01 PM	CM15111014	6/29/2017	4:41:01 AM	31	-5.59	32.5	35	740	
2980 DW NE CORNER SP.txt	6/29/2017	12:41:01 PM	CM15111014	6/29/2017	4:41:01 AM	32	-4.05	32.3	35	740	
2980 DW NE CORNER SP.txt	6/29/2017	12:56:01 PM	CM15111014	6/29/2017	4:41:01 AM	33	-4.14	32	35	740	
2980 DW NE CORNER SP.txt	6/29/2017	1:11:01 PM	CM15111014	6/29/2017	4:41:01 AM	34	-4.83	31.6	36	740	
2980 DW NE CORNER SP.txt	6/29/2017	1:26:01 PM	CM15111014	6/29/2017	4:41:01 AM	35	5.18	31.3	37	740	
2980 DW NE CORNER SP.txt	6/29/2017	1:41:01 PM	CM15111014	6/29/2017	4:41:01 AM	36	-4.13	30.6	40	740	
2980 DW NE CORNER SP.txt	6/29/2017	1:56:01 PM	CM15111014	6/29/2017	4:41:01 AM	37	-5.46	30.1	41	740	
801 DW NE corner tennis court.txt	6/29/2017	11:44:53 AM	0115249188	6/29/2017	11:29:53 AM	1	3.2	27.9	35	738	
801 DW NE corner tennis court.txt	6/29/2017	11:59:53 AM	0115249188	6/29/2017	11:29:53 AM	2	0.26	28.3	33	738	
801 DW NE corner tennis court.txt	6/29/2017	12:14:53 PM	0115249188	6/29/2017	11:29:53 AM	3	-1.65	28.4	34	738	
801 DW NE corner tennis court.txt	6/29/2017	12:29:53 PM	0115249188	6/29/2017	11:29:53 AM	4	-2.29	28.8	33	738	
801 DW NE corner tennis court.txt	6/29/2017	12:44:53 PM	0115249188	6/29/2017	11:29:53 AM	5	-2.46	29.4	33	738	
801 DW NE corner tennis court.txt	6/29/2017	12:59:53 PM	0115249188	6/29/2017	11:29:53 AM	6	2.5	30	33	738	
801 DW NE corner tennis court.txt	6/29/2017	1:14:53 PM	0115249188	6/29/2017	11:29:53 AM	7	0.32	30.2	32	738	
801 DW NE corner tennis court.txt	6/29/2017	1:29:53 PM	0115249188	6/29/2017	11:29:53 AM	8	3.13	30.2	32	738	
801 DW NE corner tennis court.txt	6/29/2017	1:44:53 PM	0115249188	6/29/2017	11:29:53 AM	9	10	30.5	32	738	
801 DW NE corner tennis court.txt	6/29/2017	1:59:53 PM	0115249188	6/29/2017	11:29:53 AM	10	10.75	30.7	32	738	
801 DW NE corner tennis court.txt	6/29/2017	2:14:53 PM	0115249188	6/29/2017	11:29:53 AM	11	8.69	30.8	32	738	
801 DW NE corner tennis court.txt	6/29/2017	2:29:53 PM	0115249188	6/29/2017	11:29:53 AM	12	-1.04	31	32	738	
801 DW NE corner tennis court.txt	6/29/2017	2:44:53 PM	0115249188	6/29/2017	11:29:53 AM	13	3.35	31.1	31	738	
801 DW NE corner tennis court.txt	6/29/2017	2:59:53 PM	0115249188	6/29/2017	11:29:53 AM	14	7.79	31.1	32	738	
801 DW NE corner tennis court.txt	6/29/2017	3:14:53 PM	0115249188	6/29/2017	11:29:53 AM	15	0.38	31	32	738	
801 DW NE corner tennis court.txt	6/29/2017	3:29:53 PM	0115249188	6/29/2017	11:29:53 AM	16	-1.27	31.3	32	738	
801 DW NE corner tennis court.txt	6/29/2017	3:44:53 PM	0115249188	6/29/2017	11:29:53 AM	17	-0.22	31.1	32	738	
801 DW NE corner tennis court.txt	6/29/2017	3:59:53 PM	0115249188	6/29/2017	11:29:53 AM	18	4.95	30.9	32	738	
801 DW NE corner tennis court.txt	6/29/2017	4:14:53 PM	0115249188	6/29/2017	11:29:53 AM	19	-1.83	30.5	33	738	
818 DW NW fence tennis court.txt	6/29/2017	11:42:42 AM	0115249311	6/29/2017	11:27:42 AM	1	-6.18	33.2	31	740	
818 DW NW fence tennis court.txt	6/29/2017	11:57:42 AM	0115249311	6/29/2017	11:27:42 AM	2	-6.78	33.6	29	740	
818 DW NW fence tennis court.txt	6/29/2017	12:12:42 PM	0115249311	6/29/2017	11:27:42 AM	3	-7.69	33.7	29	740	
818 DW NW fence tennis court.txt	6/29/2017	12:27:42 PM	0115249311	6/29/2017	11:27:42 AM	4	-7.93	34.2	30	740	
818 DW NW fence tennis court.txt	6/29/2017	12:42:42 PM	0115249311	6/29/2017	11:27:42 AM	5	-7.89	35.5	29	740	
818 DW NW fence tennis court.txt	6/29/2017	12:57:42 PM	0115249311	6/29/2017	11:27:42 AM	6	-7.47	36	29	740	
818 DW NW fence tennis court.txt	6/29/2017	1:12:42 PM	0115249311	6/29/2017	11:27:42 AM	7	-5.98	36	28	740	
818 DW NW fence tennis court.txt	6/29/2017	1:27:42 PM	0115249311	6/29/2017	11:27:42 AM	8	-5.26	35.7	29	740	
818 DW NW fence tennis court.txt	6/29/2017	1:42:42 PM	0115249311	6/29/2017	11:27:42 AM	9	-5.6	35.8	29	740	
818 DW NW fence tennis court.txt	6/29/2017	1:57:42 PM	0115249311	6/29/2017	11:27:42 AM	10	-0.55	36	29	740	
DW NW FENCE SP.txt	6/29/2017	4:54:28 AM	0115250203	6/29/2017	4:39:28 AM	1	13.42	17.8	60	740	
DW NW FENCE SP.txt	6/29/2017	5:09:28 AM	0115250203	6/29/2017	4:39:28 AM	2	-7.37	16.5	63	740	
DW NW FENCE SP.txt	6/29/2017	5:24:28 AM	0115250203	6/29/2017	4:39:28 AM	3	-6.9	15.7	69	740	
DW NW FENCE SP.txt	6/29/2017	5:39:28 AM	0115250203	6/29/2017	4:39:28 AM	4	-4.41	15.5	72	740	
DW NW FENCE SP.txt	6/29/2017	5:54:28 AM	0115250203	6/29/2017	4:39:28 AM	5	2.68	15.9	71	740	
DW NW FENCE SP.txt	6/29/2017	6:09:28 AM	0115250203	6/29/2017	4:39:28 AM	6	-3.43	16.4	68	740	
DW NW FENCE SP.txt	6/29/2017	6:24:28 AM	0115250203	6/29/2017	4:39:28 AM	7	-2.59	17.1	66	740	
DW NW FENCE SP.txt	6/29/2017	6:39:28 AM	0115250203	6/29/2017	4:39:28 AM	8	-8.72	19.9	61	740	
DW NW FENCE SP.txt	6/29/2017	6:54:28 AM	0115250203	6/29/2017	4:39:28 AM	9	-5.55	22.7	53	740	
DW NW FENCE SP.txt	6/29/2017	7:09:28 AM	0115250203	6/29/2017	4:39:28 AM	10	-6.89	26.1	45	740	
DW NW FENCE SP.txt	6/29/2017	7:24:28 AM	0115250203	6/29/2017	4:39:28 AM	11	-10.93	28.1	39	740	
DW NW FENCE SP.txt	6/29/2017	7:39:28 AM	0115250203	6/29/2017	4:39:28 AM	12	-9.03	30.1	35	740	
DW NW FENCE SP.txt	6/29/2017	7:54:28 AM	0115250203	6/29/2017	4:39:28 AM	13	9.68	32	32	740	
DW NW FENCE SP.txt	6/29/2017	8:09:28 AM	0115250203	6/29/2017	4:39:28 AM	14	-8.18	33.3	30	740	
DW NW FENCE SP.txt	6/29/2017	8:24:28 AM	0115250203	6/29/2017	4:39:28 AM	15	-4.41	32.6	29	740	
DW NW FENCE SP.txt	6/29/2017	8:39:28 AM	0115250203	6/29/2017	4:39:28 AM	16	-6.15	31.9	31	740	
DW NW FENCE SP.txt	6/29/2017	8:54:28 AM	0115250203	6/29/2017	4:39:28 AM	17	12.53	32.2	30	740	
DW NW FENCE SP.txt	6/29/2017	9:09:28 AM	0115250203	6/29/2017	4:39:28 AM	18	-3.17	31.6	32	740	
DW NW FENCE SP.txt	6/29/2017	9:24:28 AM	0115250203	6/29/2017	4:39:28 AM	19	2.56	31.5	32	740	
DW NW FENCE SP.txt	6/29/2017	9:39:28 AM	0115250203	6/29/2017	4:39:28 AM	20	-6.24	32	32	740	
DW NW FENCE SP.txt	6/29/2017	9:54:28 AM	0115250203	6/29/2017	4:39:28 AM	21	-10.47	32	32	740	
DW NW FENCE SP.txt	6/29/2017	10:09:28 AM	0115250203	6/29/2017	4:39:28 AM	22	100.98	32.2	33	740	
DW NW FENCE SP.txt	6/29/2017	10:24:28 AM	0115250203	6/29/2017	4:39:28 AM	23	-8.17	32	33	740	
DW NW FENCE SP.txt	6/29/2017	10:39:28 AM	0115250203	6/29/2017	4:39:28 AM	24	-8.04	32.1	33	738	
DW NW FENCE SP.txt	6/29/2017	10:54:28 AM	0115250203	6/29/2017	4:39:28 AM	25	-7.85	32.1	33	738	
DW NW FENCE SP.txt	6/29/2017	11:09:28 AM	0115250203	6/29/2017	4:39:28 AM	26	7.81	32.1	33	738	
DW NW FENCE SP.txt	6/29/2017	11:24:28 AM	0115250203	6/29/2017	4:39:28 AM	27	-3.88	32.3	34	738	
DW NW FENCE SP.txt	6/29/2017	11:39:28 AM	0115250203	6/29/2017	4:39:28 AM	28	-9.76	32.7	33	738	
DW NW FENCE SP.txt	6/29/2017	11:54:28 AM	0115250203	6/29/2017	4:39:28 AM	29	-5.8	32.8	33	738	
DW NW FENCE SP.txt	6/29/2017	12:09:28 PM	0115250203	6/29/2017	4:39:28 AM	30	-4.24	32.6	33	738	
DW NW FENCE SP.txt	6/29/2017	12:24:28 PM	0115250203	6/29/2017	4:39:28 AM	31	33.95	32.9	33	738	
DW NW FENCE SP.txt	6/29/2017	12:39:28 PM	0115250203	6/29/2017	4:39:28 AM	32	1.18	32.9	33	738	
DW NW FENCE SP.txt	6/29/2017	12:54:28 PM	0115250203	6/29/2017	4:39:28 AM	33	-9.03	32.7	33	738	
DW NW FENCE SP.txt	6/29/2017	1:09:28 PM	0115250203	6/29/2017	4:39:28 AM	34	-7.39	32.2	33	738	
DW NW FENCE SP.txt	6/29/2017	1:24:28 PM	0115250203	6/29/2017	4:39:28 AM	35	-0.45	31.7	35	738	
DW NW FENCE SP.txt	6/29/2017	1:39:28 PM	0115250203	6/29/2017	4:39:28 AM	36	-2.12	31.1	38	738	
DW NW FENCE SP.txt	6/29/2017	1:54:28 PM	0115250203	6/29/2017	4:39:28 AM	37	-9.29	30.5	39	738	
1422 DW NE FENCE SP 2.txt	6/30/2017	4:46:26 AM	0115249980	6/30/2017	4:31:26 AM	1	0.99	20.6	70	738	
1422 DW NE FENCE SP 2.txt	6/30/2017	5:01:26 AM	0115249980	6/30/2017	4:31:26 AM	2	-0.78	21.2	72	738	
1422 DW NE FENCE SP 2.txt	6/30/2017	5:16:26 AM	0115249980	6/30/2017	4:31:26 AM	3	-1.29	21.6	71	738	
1422 DW NE FENCE SP 2.txt	6/30/2017	5:31:26 AM	0115249980	6/30/2017	4:31:26 AM	4	0.4	22	70	738	
1422 DW NE FENCE SP 2.txt	6/30/2017	5:46:26 AM	0115249980	6/30/2017	4:31:26 AM	5	5.38	22.4	69	738	
1422 DW NE FENCE SP 2.txt	6/30/2017	6:01:26 AM	0115249980	6/30/2017	4:31:26 AM	6	0.53	22.8	66	738	
1422 DW NE FENCE SP 2.txt	6/30/2017	6:16:26 AM	0115249980	6/30/2017	4:31:26 AM	7	2.02	23.2	66	738	
1422 DW NE FENCE SP 2.txt	6/30/2017	6:31:26 AM	0115249980	6/30/2017	4:31:26 AM	8	1.27	23.5	65	738	
1422 DW NE FENCE SP 2.txt	6/30/2017	6:46:26 AM	0115249980	6/30/2017	4:31:26 AM	9	8.91	23.9	64	738	
1422 DW NE FENCE SP 2.txt	6/30/2017	7:01:26 AM	0115249980	6/30/2017	4:31:26 AM	10	0.63	24.4	62	738	
1422 DW NE FENCE SP 2.txt	6/30/2017	7:16:26 AM	0115249980	6/30/2017	4:31:26 AM	11	0.58	24.5	62	738	
1422 DW NE FENCE SP 2.txt	6/30/2017	7:31:26 AM	0115249980	6/30/2017	4:31:26 AM	12	2.19	25	60	738	
1422 DW NE FENCE SP 2.txt	6/30/2017	7:46:26 AM	0115249980	6/30/2017	4:31:26 AM	13	1.99	25.3	58	738	
1422 DW NE FENCE SP 2.txt	6/30/2017	8:01:26 AM	0115249980	6/30/2017	4:31:26 AM	14	9.85	25.3	58	738	
1422 DW NE FENCE SP 2.txt	6/30/2017	8:16:26 AM	0115249980	6/30/2017	4:31:26 AM	15	0.36	25.7	58	738	
1422 DW NE FENCE SP 2.txt	6/30/2017	8:31:26 AM	0115249980	6/30/2017	4:31:26 AM	16	-0.67	26.4	56	738	
1422 DW NE FENCE SP 2.txt	6/30/2017	8:46:26 AM	0115249980	6/30/2017	4:31:26 AM	17	5.96	27.2	54	738	
1422 DW NE FENCE SP 2.txt	6/30/2017	9:01:26 AM	0115249980	6/30/2017	4:31:26 AM	18	4.84	27.3	53	738	
1422 DW NE FENCE SP 2.txt	6/30/2017	9:16:26 AM	0115249980	6/30/2017	4:31:26 AM	19	-0.77	27	54	738	
1422 DW NE FENCE SP 2.txt	6/30/2017	9:31:26 AM	0115249980	6/30/2017	4:31:26 AM	20	-0.26	27.1	54	738	
1422 DW NE FENCE SP 2.txt	6/30/2017	9:46:26 AM	0115249980	6/30/2017	4:31:26 AM	21	0.25	27.1	54	738	
1422 DW NE FENCE SP 2.txt	6/30/2017	10:01:26 AM	0115249980	6/30/2017	4:31:26 AM	22	4.06	26.8	55	738	
1422 DW NE FENCE SP 2.txt	6/30/2017	10:16:26 AM	0115249980	6/30/2017	4:31:26 AM	23	3.23	27.1	55	738	
1422 DW NE FENCE SP 2.txt	6/30/2017	10:31:26 AM	0115249980	6/30/2017	4:31:26 AM	24	8.78	27.8	53	738	
1422 DW NE FENCE SP 2.txt	6/30/2017	10:46:26 AM	0115249980	6/30/2017	4:31:26 AM	25	5.03	28.3	52	738	
1422 DW NE FENCE SP 2.txt	6/30/2017	11:01:26 AM	0115249980	6/30/2017	4:31:26 AM	26	30.92	28.6	50	738	
1422 DW NE FENCE SP 2.txt	6/30/2017	11:16:26 AM	0115249980	6/30/2017	4:31:26 AM	27	-0.87	29.3	48	738	
1422 DW NE FENCE SP 2.txt	6/30/2017	11:31:26 AM	0115249980	6/30/2017	4:31:26 AM	28	8.41	29.7	46	738	
1422 DW NE FENCE SP 2.txt	6/30/2017	11:46:26 AM	0115249980	6/30/2017	4:31:26 AM	29	-2.66	30	47	738	
1422 DW NE FENCE SP 2.txt	6/30/2017	12:01:26 PM	0115249980	6/30/2017	4:31:26 AM	30	2.45	30.4	45	738	
1422 DW NE FENCE SP 2.txt	6/30/2017	12:16:26 PM	0115249980	6/30/2017	4:31:26 AM	31	0.58	31.2	43	738	
1422 DW NE FENCE SP 2.txt	6/30/2017	12:31:26 PM	0115249980	6/30/2017	4:31:26 AM	32	-0.98	30.8	43	738	
1422 DW NE FENCE SP 2.txt	6/30/2017	12:46:26 PM	0115249980	6/30/2017	4:31:26 AM	33	2.69	30.6	43	738	
1422 DW NE FENCE SP 2.txt	6/30/2017	1:01:26 PM	0115249980	6/30/2017	4:31:26 AM	34	-0.11	30.1	44	738	
1422 DW NE FENCE SP 2.txt	6/30/2017	1:16:26 PM	0115249980	6/30/2017	4:31:26 AM	35	-0.37	30.2	45	738	
1860 DW NW FENCE SP 1.txt	6/30/2017	4:44:51 AM	0115250203	6/30/2017	4:29:51 AM	1	-0.29	22.5	68	738	
1860 DW NW FENCE SP 1.txt	6/30/2017	4:59:51 AM	0115250203	6/30/2017	4:29:51 AM	2	-2.88	24.2	63	738	
1860 DW NW FENCE SP 1.txt	6/30/2017	5:14:51 AM	0115250203	6/30/2017	4:29:51 AM	3	-2.95	24.8	61	738	
1860 DW NW FENCE SP 1.txt	6/30/2017	5:29:51 AM	0115250203	6/30/2017	4:29:51 AM	4	1.23	24.4	64	738	
1860 DW NW FENCE SP 1.txt	6/30/2017	5:44:51 AM	0115250203	6/30/2017	4:29:51 AM	5	3	25.1	63	738	
1860 DW NW FENCE SP 1.txt	6/30/2017	5:59:51 AM	0115250203	6/30/2017	4:29:51 AM	6	-0.67	28.1	53	738	
1860 DW NW FENCE SP 1.txt	6/30/2017	6:14:51 AM	0115250203	6/30/2017	4:29:51 AM	7	1.92	28.4	53	738	
1860 DW NW FENCE SP 1.txt	6/30/2017	6:29:51 AM	0115250203	6/30/2017	4:29:51 AM	8	6.94	29.3	51	738	
1860 DW NW FENCE SP 1.txt	6/30/2017	6:44:51 AM	0115250203	6/30/2017	4:29:51 AM	9	33.42	31.6	46	738	
1860 DW NW FENCE SP 1.txt	6/30/2017	6:59:51 AM	0115250203	6/30/2017	4:29:51 AM	10	-1.21	32.5	43	738	
1860 DW NW FENCE SP 1.txt	6/30/2017	7:14:51 AM	0115250203	6/30/2017	4:29:51 AM	11	-2.35	32	44	738	
1860 DW NW FENCE SP 2.txt	6/30/2017	7:42:32 AM	0115250203	6/30/2017	7:27:32 AM	1	6.39	31.9	47	738	
1860 DW NW FENCE SP 2.txt	6/30/2017	7:57:32 AM	0115250203	6/30/2017	7:27:32 AM	2	13.71	29.4	51	738	

Summary of CAMP Monitoring

Beech and Bonaparte

Former Sperry Remington Site - North Portion
Elmira, New York

Unit Location	Record Date	Record Time	Unit Serial Number	Start Date	Start Time	Record #	Dust Concentration in µg/m^3	Temp	RHumidity	AtmoPressure in mm/Hg	Notes
1860 DW NW FENCE SP 2.txt	6/30/2017	8:12:32 AM	0115250203	6/30/2017	7:27:32 AM	3	1.02	30.6	48	738	
1860 DW NW FENCE SP 2.txt	6/30/2017	8:27:32 AM	0115250203	6/30/2017	7:27:32 AM	4	0.85	33.2	42	738	
1860 DW NW FENCE SP 2.txt	6/30/2017	8:42:32 AM	0115250203	6/30/2017	7:27:32 AM	5	11.07	34.6	39	738	
1860 DW NW FENCE SP 2.txt	6/30/2017	8:57:32 AM	0115250203	6/30/2017	7:27:32 AM	6	7.91	34.1	40	738	
1860 DW NW FENCE SP 2.txt	6/30/2017	9:12:32 AM	0115250203	6/30/2017	7:27:32 AM	7	5.36	32.8	42	738	
1860 DW NW FENCE SP 2.txt	6/30/2017	9:27:32 AM	0115250203	6/30/2017	7:27:32 AM	8	1.92	32.3	44	738	
1860 DW NW FENCE SP 2.txt	6/30/2017	9:42:32 AM	0115250203	6/30/2017	7:27:32 AM	9	-0.07	32.2	44	738	
1860 DW NW FENCE SP 2.txt	6/30/2017	9:57:32 AM	0115250203	6/30/2017	7:27:32 AM	10	29.81	31.5	45	736	
1860 DW NW FENCE SP 2.txt	6/30/2017	10:12:32 AM	0115250203	6/30/2017	7:27:32 AM	11	4.45	31.5	46	736	
1860 DW NW FENCE SP 2.txt	6/30/2017	10:27:32 AM	0115250203	6/30/2017	7:27:32 AM	12	3.84	32.2	45	736	
1860 DW NW FENCE SP 2.txt	6/30/2017	10:42:32 AM	0115250203	6/30/2017	7:27:32 AM	13	25.22	32.5	44	736	
1860 DW NW FENCE SP 2.txt	6/30/2017	10:57:32 AM	0115250203	6/30/2017	7:27:32 AM	14	44.33	32.2	43	736	
1860 DW NW FENCE SP 2.txt	6/30/2017	11:12:32 AM	0115250203	6/30/2017	7:27:32 AM	15	6.85	32.3	44	736	
1860 DW NW FENCE SP 2.txt	6/30/2017	11:27:32 AM	0115250203	6/30/2017	7:27:32 AM	16	7.57	32.4	43	736	
1860 DW NW FENCE SP 2.txt	6/30/2017	11:42:32 AM	0115250203	6/30/2017	7:27:32 AM	17	-2.2	32.4	44	736	
1860 DW NW FENCE SP 2.txt	6/30/2017	11:57:32 AM	0115250203	6/30/2017	7:27:32 AM	18	-1.83	32.9	42	736	
1860 DW NW FENCE SP 2.txt	6/30/2017	12:12:32 PM	0115250203	6/30/2017	7:27:32 AM	19	-0.58	33.5	41	736	
1860 DW NW FENCE SP 2.txt	6/30/2017	12:27:32 PM	0115250203	6/30/2017	7:27:32 AM	20	7.13	33.7	40	736	
1860 DW NW FENCE SP 2.txt	6/30/2017	12:42:32 PM	0115250203	6/30/2017	7:27:32 AM	21	13.39	33.2	41	736	
1860 DW NW FENCE SP 2.txt	6/30/2017	12:57:32 PM	0115250203	6/30/2017	7:27:32 AM	22	66.52	33	40	736	
1860 DW NW FENCE SP 2.txt	6/30/2017	1:12:32 PM	0115250203	6/30/2017	7:27:32 AM	23	3.93	32.7	42	736	
1936 DW NW CORNER SP 2.txt	6/30/2017	7:42:44 AM	0115250202	6/30/2017	7:27:44 AM	1	4.16	29.4	51	740	
1936 DW NW CORNER SP 2.txt	6/30/2017	7:57:44 AM	0115250202	6/30/2017	7:27:44 AM	2	8.86	28.5	53	738	
1936 DW NW CORNER SP 2.txt	6/30/2017	8:12:44 AM	0115250202	6/30/2017	7:27:44 AM	3	0.37	28.9	53	738	
1936 DW NW CORNER SP 2.txt	6/30/2017	8:27:44 AM	0115250202	6/30/2017	7:27:44 AM	4	1.99	30	51	738	
1936 DW NW CORNER SP 2.txt	6/30/2017	8:42:44 AM	0115250202	6/30/2017	7:27:44 AM	5	12	31	48	738	
1936 DW NW CORNER SP 2.txt	6/30/2017	8:57:44 AM	0115250202	6/30/2017	7:27:44 AM	6	6.5	31	48	738	
1936 DW NW CORNER SP 2.txt	6/30/2017	9:12:44 AM	0115250202	6/30/2017	7:27:44 AM	7	6.56	30.1	50	738	
1936 DW NW CORNER SP 2.txt	6/30/2017	9:27:44 AM	0115250202	6/30/2017	7:27:44 AM	8	3.93	29.9	51	738	
1936 DW NW CORNER SP 2.txt	6/30/2017	9:42:44 AM	0115250202	6/30/2017	7:27:44 AM	9	-0.41	30	51	738	
1936 DW NW CORNER SP 2.txt	6/30/2017	9:57:44 AM	0115250202	6/30/2017	7:27:44 AM	10	34.93	29.6	51	738	
1936 DW NW CORNER SP 2.txt	6/30/2017	10:12:44 AM	0115250202	6/30/2017	7:27:44 AM	11	2.06	29.9	52	738	
1936 DW NW CORNER SP 2.txt	6/30/2017	10:27:44 AM	0115250202	6/30/2017	7:27:44 AM	12	5.96	31.1	49	738	
1936 DW NW CORNER SP 2.txt	6/30/2017	10:42:44 AM	0115250202	6/30/2017	7:27:44 AM	13	14.51	32.1	47	738	
1936 DW NW CORNER SP 2.txt	6/30/2017	10:57:44 AM	0115250202	6/30/2017	7:27:44 AM	14	56.96	32.1	46	738	
1936 DW NW CORNER SP 2.txt	6/30/2017	11:12:44 AM	0115250202	6/30/2017	7:27:44 AM	15	2.24	32.8	45	738	
1936 DW NW CORNER SP 2.txt	6/30/2017	11:27:44 AM	0115250202	6/30/2017	7:27:44 AM	16	1.41	33.5	43	738	
1936 DW NW CORNER SP 2.txt	6/30/2017	11:42:44 AM	0115250202	6/30/2017	7:27:44 AM	17	-2.48	33.5	43	738	
1936 DW NW CORNER SP 2.txt	6/30/2017	11:57:44 AM	0115250202	6/30/2017	7:27:44 AM	18	-2.33	34.2	42	738	
1936 DW NW CORNER SP 2.txt	6/30/2017	12:12:44 PM	0115250202	6/30/2017	7:27:44 AM	19	-1.69	35	41	738	
1936 DW NW CORNER SP 2.txt	6/30/2017	12:27:44 PM	0115250202	6/30/2017	7:27:44 AM	20	3.76	34.7	40	738	
1936 DW NW CORNER SP 2.txt	6/30/2017	12:42:44 PM	0115250202	6/30/2017	7:27:44 AM	21	6.19	33.9	42	738	
1936 DW NW CORNER SP 2.txt	6/30/2017	12:57:44 PM	0115250202	6/30/2017	7:27:44 AM	22	38.26	33.5	41	738	
1936 DW NW CORNER SP 2.txt	6/30/2017	1:12:44 PM	0115250202	6/30/2017	7:27:44 AM	23	4.36	33	42	738	
1936 DW NW CORNER ST 1.txt	6/30/2017	4:54:02 AM	0115250202	6/30/2017	4:39:02 AM	1	0.76	23.8	65	738	
1936 DW NW CORNER ST 1.txt	6/30/2017	5:09:02 AM	0115250202	6/30/2017	4:39:02 AM	2	0.04	24.4	62	738	
1936 DW NW CORNER ST 1.txt	6/30/2017	5:24:02 AM	0115250202	6/30/2017	4:39:02 AM	3	2.53	24.4	64	738	
1936 DW NW CORNER ST 1.txt	6/30/2017	5:39:02 AM	0115250202	6/30/2017	4:39:02 AM	4	7.21	24.7	64	740	
1936 DW NW CORNER ST 1.txt	6/30/2017	5:54:02 AM	0115250202	6/30/2017	4:39:02 AM	5	3.88	26	60	740	
1936 DW NW CORNER ST 1.txt	6/30/2017	6:09:02 AM	0115250202	6/30/2017	4:39:02 AM	6	1.01	26.8	57	740	
1936 DW NW CORNER ST 1.txt	6/30/2017	6:24:02 AM	0115250202	6/30/2017	4:39:02 AM	7	8.1	26.9	58	740	
1936 DW NW CORNER ST 1.txt	6/30/2017	6:39:02 AM	0115250202	6/30/2017	4:39:02 AM	8	35.6	27.4	57	740	
1936 DW NW CORNER ST 1.txt	6/30/2017	6:54:02 AM	0115250202	6/30/2017	4:39:02 AM	9	6.24	28.2	55	740	
1936 DW NW CORNER ST 1.txt	6/30/2017	7:09:02 AM	0115250202	6/30/2017	4:39:02 AM	10	3	28.2	54	740	
1954 UW FENCE SP 1.txt	6/30/2017	7:47:56 AM	0115250211	6/30/2017	7:32:56 AM	1	4.92	22.1	68	738	
1954 UW FENCE SP 1.txt	6/30/2017	8:02:56 AM	0115250211	6/30/2017	7:32:56 AM	2	8.03	23.1	69	738	
1954 UW FENCE SP 1.txt	6/30/2017	8:17:56 AM	0115250211	6/30/2017	7:32:56 AM	3	3.8	24	65	738	
1954 UW FENCE SP 1.txt	6/30/2017	8:32:56 AM	0115250211	6/30/2017	7:32:56 AM	4	7.21	24.4	64	738	
1954 UW FENCE SP 1.txt	6/30/2017	8:47:56 AM	0115250211	6/30/2017	7:32:56 AM	5	7.3	25.3	62	738	
1954 UW FENCE SP 2.txt	6/30/2017	11:59:09 AM	0115250211	6/30/2017	11:44:09 AM	1	9.26	33.6	41	734	
1954 UW FENCE SP 2.txt	6/30/2017	12:14:09 PM	0115250211	6/30/2017	11:44:09 AM	2	8.45	33.3	42	736	
1954 UW FENCE SP 2.txt	6/30/2017	12:29:09 PM	0115250211	6/30/2017	11:44:09 AM	3	15.55	33.1	42	736	
1954 UW FENCE SP 2.txt	6/30/2017	12:44:09 PM	0115250211	6/30/2017	11:44:09 AM	4	7.83	32.5	43	736	
1954 UW FENCE SP 2.txt	6/30/2017	12:59:09 PM	0115250211	6/30/2017	11:44:09 AM	5	10.58	31.5	46	736	
1954 UW FENCE SP 2.txt	6/30/2017	1:14:09 PM	0115250211	6/30/2017	11:44:09 AM	6	6.93	31.4	47	736	
1954 UW FENCE SP 2.txt	6/30/2017	1:29:09 PM	0115250211	6/30/2017	11:44:09 AM	7	7.36	31.9	47	736	
1954 UW FENCE SP 2.txt	6/30/2017	1:44:09 PM	0115250211	6/30/2017	11:44:09 AM	8	6.53	32.3	45	736	
1954 UW FENCE SP 2.txt	6/30/2017	1:59:09 PM	0115250211	6/30/2017	11:44:09 AM	9	6.92	32.6	44	736	
1954 UW FENCE SP 2.txt	6/30/2017	2:14:09 PM	0115250211	6/30/2017	11:44:09 AM	10	7.57	33	43	736	
1954 UW FENCE SP 2.txt	6/30/2017	2:29:09 PM	0115250211	6/30/2017	11:44:09 AM	11	8.01	33.2	42	736	
1954 UW FENCE SP 2.txt	6/30/2017	2:44:09 PM	0115250211	6/30/2017	11:44:09 AM	12	6.76	33.4	42	736	
1954 UW FENCE SP 2.txt	6/30/2017	2:59:09 PM	0115250211	6/30/2017	11:44:09 AM	13	15.34	34	40	736	
1954 UW FENCE SP 2.txt	6/30/2017	3:14:09 PM	0115250211	6/30/2017	11:44:09 AM	14	11.1	34.6	40	736	
1954 UW FENCE SP 2.txt	6/30/2017	3:29:09 PM	0115250211	6/30/2017	11:44:09 AM	15	9.78	34.1	39	736	
1954 UW FENCE SP 2.txt	6/30/2017	3:44:09 PM	0115250211	6/30/2017	11:44:09 AM	16	25.28	33.4	41	736	
1954 UW FENCE SP 2.txt	6/30/2017	3:59:09 PM	0115250211	6/30/2017	11:44:09 AM	17	7.59	32.7	41	736	
1954 UW FENCE SP 2.txt	6/30/2017	4:14:09 PM	0115250211	6/30/2017	11:44:09 AM	18	22.74	32.5	42	736	
2980 DW NE CORNER SP 1.txt	6/30/2017	4:50:47 AM	CM15111014	6/30/2017	4:35:47 AM	1	108.96	24.4	65	738	
2980 DW NE CORNER SP 1.txt	6/30/2017	5:05:47 AM	CM15111014	6/30/2017	4:35:47 AM	2	111.05	25.1	64	738	
2980 DW NE CORNER SP 1.txt	6/30/2017	5:20:47 AM	CM15111014	6/30/2017	4:35:47 AM	3	111.49	25.4	64	740	
2980 DW NE CORNER SP 1.txt	6/30/2017	5:35:47 AM	CM15111014	6/30/2017	4:35:47 AM	4	114.21	25.7	63	740	
2980 DW NE CORNER SP 1.txt	6/30/2017	5:50:47 AM	CM15111014	6/30/2017	4:35:47 AM	5	117.74	26.4	61	740	
2980 DW NE CORNER SP 1.txt	6/30/2017	6:05:47 AM	CM15111014	6/30/2017	4:35:47 AM	6	119.67	27.2	58	740	
2980 DW NE CORNER SP 1.txt	6/30/2017	6:20:47 AM	CM15111014	6/30/2017	4:35:47 AM	7	122.45	27.6	58	740	
2980 DW NE CORNER SP 1.txt	6/30/2017	6:35:47 AM	CM15111014	6/30/2017	4:35:47 AM	8	126.01	28.2	57	740	
2980 DW NE CORNER SP 1.txt	6/30/2017	6:50:47 AM	CM15111014	6/30/2017	4:35:47 AM	9	133.62	29.2	54	740	
2980 DW NE CORNER SP 1.txt	6/30/2017	7:05:47 AM	CM15111014	6/30/2017	4:35:47 AM	10	128.28	29.5	52	740	
2980 DW NE CORNER SP 2.txt	6/30/2017	7:43:34 AM	CM15111014	6/30/2017	7:28:34 AM	1	2.88	30.5	49	740	
2980 DW NE CORNER SP 2.txt	6/30/2017	7:58:34 AM	CM15111014	6/30/2017	7:28:34 AM	2	0.28	29.6	51	740	
2980 DW NE CORNER SP 2.txt	6/30/2017	8:13:34 AM	CM15111014	6/30/2017	7:28:34 AM	3	-2.39	30.3	50	740	
2980 DW NE CORNER SP 2.txt	6/30/2017	8:28:34 AM	CM15111014	6/30/2017	7:28:34 AM	4	-3.36	31.4	48	740	
2980 DW NE CORNER SP 2.txt	6/30/2017	8:43:34 AM	CM15111014	6/30/2017	7:28:34 AM	5	8.23	32.4	45	740	
2980 DW NE CORNER SP 2.txt	6/30/2017	8:58:34 AM	CM15111014	6/30/2017	7:28:34 AM	6	2.76	32.2	45	740	
2980 DW NE CORNER SP 2.txt	6/30/2017	9:13:34 AM	CM15111014	6/30/2017	7:28:34 AM	7	-0.8	31.2	48	738	
2980 DW NE CORNER SP 2.txt	6/30/2017	9:28:34 AM	CM15111014	6/30/2017	7:28:34 AM	8	0.28	30.9	49	738	
2980 DW NE CORNER SP 2.txt	6/30/2017	9:43:34 AM	CM15111014	6/30/2017	7:28:34 AM	9	1.74	30.9	49	738	
2980 DW NE CORNER SP 2.txt	6/30/2017	9:58:34 AM	CM15111014	6/30/2017	7:28:34 AM	10	5.51	30.4	50	738	
2980 DW NE CORNER SP 2.txt	6/30/2017	10:13:34 AM	CM15111014	6/30/2017	7:28:34 AM	11	1.45	30.9	50	738	
2980 DW NE CORNER SP 2.txt	6/30/2017	10:28:34 AM	CM15111014	6/30/2017	7:28:34 AM	12	1.43	32.4	46	738	
2980 DW NE CORNER SP 2.txt	6/30/2017	10:43:34 AM	CM15111014	6/30/2017	7:28:34 AM	13	3.56	33.2	44	738	
2980 DW NE CORNER SP 2.txt	6/30/2017	10:58:34 AM	CM15111014	6/30/2017	7:28:34 AM	14	12.29	33.1	43	738	
2980 DW NE CORNER SP 2.txt	6/30/2017	11:13:34 AM	CM15111014	6/30/2017	7:28:34 AM	15	4.18	33.7	43	738	
2980 DW NE CORNER SP 2.txt	6/30/2017	11:28:34 AM	CM15111014	6/30/2017	7:28:34 AM	16	-1.54	34	41	738	
2980 DW NE CORNER SP 2.txt	6/30/2017	11:43:34 AM	CM15111014	6/30/2017	7:28:34 AM	17	-2.25	33.9	42	738	
2980 DW NE CORNER SP 2.txt	6/30/2017	11:58:34 AM	CM15111014	6/30/2017	7:28:34 AM	18	-1.01	34.4	41	738	
2980 DW NE CORNER SP 2.txt	6/30/2017	12:13:34 PM	CM15111014	6/30/2017	7:28:34 AM	19	-0.77	35	40	738	
2980 DW NE CORNER SP 2.txt	6/30/2017	12:28:34 PM	CM15111014	6/30/2017	7:28:34 AM	20	-1.54	34.5	39	738	
2980 DW NE CORNER SP 2.txt	6/30/2017	12:43:34 PM	CM15111014	6/30/2017	7:28:34 AM	21	0.26	33.9	41	738	
2980 DW NE CORNER SP 2.txt	6/30/2017	12:58:34 PM	CM15111014	6/30/2017	7:28:34 AM	22	3.78	33.7	41	738	
2980 DW NE CORNER SP 2.txt	6/30/2017	1:13:34 PM	CM15111014	6/30/2017	7:28:34 AM	23	-2.24	33.3	42	738	
1421 DW NW CORNER TC.txt	7/5/2017	7:41:58 AM	0115249975	7/5/2017	7:26:58 AM	1	6.11	20.8	50	744	
1421 DW NW CORNER TC.txt	7/5/2017	7:56:58 AM	0115249975	7/5/2017	7:26:58 AM	2	7.96	19.8	52	744	
1421 DW NW CORNER TC.txt	7/5/2017	8:11:58 AM	0115249975	7/5/2017	7:26:58 AM	3	12.75	20	53	744	
1421 DW NW CORNER TC.txt	7/5/2017	8:26:58 AM	0115249975	7/5/2017	7:26:58 AM	4	10.55	21.5	50	744	
1421 DW NW CORNER TC.txt	7/5/2017	8:41:58 AM	0115249975	7/5/2017	7:26:58 AM	5	10.31	22.8	47	744	
1421 DW NW CORNER TC.txt	7/5/2017	8:56:58 AM	0115249975	7/5/2017	7:26:58 AM	6	8.11	23.4	45	744	
1421 DW NW CORNER TC.txt	7/5/2017	9:11:58 AM	0115249975	7/5/2017	7:26:58 AM	7	7.17	24	43	744	
1421 DW NW CORNER TC.txt	7/5/2017	9:26:58 AM	0115249975	7/5/2017	7:26:58 AM	8	8.47	24.1	43	744	
1421 DW NW CORNER TC.txt	7/5/2017	9:41:58 AM	0115249975	7/5/2017	7:26:58 AM	9	7.27	23.7	44	744	
1421 DW NW CORNER TC.txt	7/5/2017	9:56:58 AM	0115249975	7/5/2017	7:26:58 AM	10	4.7	23.6	44	744	
1421 DW NW CORNER TC.txt	7/5/2017	10:11:58 AM	0115249975	7/5/2017	7:26:58 AM	11	7.17	23.8	44	744	
1421 DW NW CORNER TC.txt	7/5/2017	10:26:58 AM	0115249975	7/5/2017	7:26:58 AM	12	11.3	23.9	45	744	
1421 DW NW CORNER TC.txt	7/5/2017	10:41:58 AM	0115249975	7/5/2017	7:26:58 AM	13	5.99	23.9	45	744	
1421 DW NW CORNER TC.txt	7/5/2017	10:56:58 AM	0115249975	7/5/2017	7:26:58 AM	14	8.29	24.3	46	744	
1421 DW NW CORNER TC.txt	7/5/2017	11:11:58 AM	0115249975	7/5/2017	7:26:58 AM	15	8.12	24.8	46	744	

Summary of CAMP Monitoring

Beech and Bonaparte

Former Sperry Remington Site - North Portion
Elmira, New York

Unit Location	Record Date	Record Time	Unit Serial Number	Start Date	Start Time	Record #	Dust Concentration in µg/m^3	Temp	RHumidity	AtmoPressure in mm/Hg	Notes
1421 DW NW CORNER TC.txt	7/5/2017	11:26:58 AM	0115249975	7/5/2017	7:26:58 AM	16	9.76	25.3	45	744	
1421 DW NW CORNER TC.txt	7/5/2017	11:41:58 AM	0115249975	7/5/2017	7:26:58 AM	17	14.08	25.9	44	744	
1421 DW NW CORNER TC.txt	7/5/2017	11:56:58 AM	0115249975	7/5/2017	7:26:58 AM	18	11.22	26.4	44	744	
1421 DW NW CORNER TC.txt	7/5/2017	12:11:58 PM	0115249975	7/5/2017	7:26:58 AM	19	12.79	26.8	42	744	
1421 DW NW CORNER TC.txt	7/5/2017	12:26:58 PM	0115249975	7/5/2017	7:26:58 AM	20	13.7	27.4	41	744	
1421 DW NW CORNER TC.txt	7/5/2017	12:41:58 PM	0115249975	7/5/2017	7:26:58 AM	21	6.44	27.8	40	744	
1421 DW NW CORNER TC.txt	7/5/2017	12:56:58 PM	0115249975	7/5/2017	7:26:58 AM	22	13.91	28.4	37	744	
1421 DW NW CORNER TC.txt	7/5/2017	1:11:58 PM	0115249975	7/5/2017	7:26:58 AM	23	14.03	29.3	33	744	
1421 DW NW CORNER TC.txt	7/5/2017	1:26:58 PM	0115249975	7/5/2017	7:26:58 AM	24	8.61	29.7	32	744	
1421 DW NW CORNER TC.txt	7/5/2017	1:41:58 PM	0115249975	7/5/2017	7:26:58 AM	25	3.94	29.7	32	744	
1421 DW NW CORNER TC.txt	7/5/2017	1:56:58 PM	0115249975	7/5/2017	7:26:58 AM	26	7.41	29.7	32	742	
1421 DW NW CORNER TC.txt	7/5/2017	2:11:58 PM	0115249975	7/5/2017	7:26:58 AM	27	7.85	29.5	32	742	
1421 DW NW CORNER TC.txt	7/5/2017	2:26:58 PM	0115249975	7/5/2017	7:26:58 AM	28	11.01	29.4	33	742	
1421 DW NW CORNER TC.txt	7/5/2017	2:41:58 PM	0115249975	7/5/2017	7:26:58 AM	29	13.13	29.4	34	742	
1421 DW NW CORNER TC.txt	7/5/2017	2:56:58 PM	0115249975	7/5/2017	7:26:58 AM	30	14.89	29.7	34	742	
1421 DW NW CORNER TC.txt	7/5/2017	3:11:58 PM	0115249975	7/5/2017	7:26:58 AM	31	7.11	29.3	35	742	
1421 DW NW CORNER TC.txt	7/5/2017	3:26:58 PM	0115249975	7/5/2017	7:26:58 AM	32	16.73	29.1	36	742	
1421 DW NW CORNER TC.txt	7/5/2017	3:41:58 PM	0115249975	7/5/2017	7:26:58 AM	33	9.01	29	37	742	
1421 DW NW CORNER TC.txt	7/5/2017	3:56:58 PM	0115249975	7/5/2017	7:26:58 AM	34	11.88	29.3	36	742	
1421 DW NW CORNER TC.txt	7/5/2017	4:11:58 PM	0115249975	7/5/2017	7:26:58 AM	35	11.26	29.7	36	742	
1421 DW NW CORNER TC.txt	7/5/2017	4:26:58 PM	0115249975	7/5/2017	7:26:58 AM	36	11.15	30.1	36	742	
1421 DW NW CORNER TC.txt	7/5/2017	4:41:58 PM	0115249975	7/5/2017	7:26:58 AM	37	20.76	30	36	742	
1421 DW NW CORNER TC.txt	7/5/2017	4:56:58 PM	0115249975	7/5/2017	7:26:58 AM	38	9.54	29.8	36	742	
1421 DW NW CORNER TC.txt	7/5/2017	5:11:58 PM	0115249975	7/5/2017	7:26:58 AM	39	12.29	29.2	39	742	
1421 DW NW CORNER TC.txt	7/5/2017	5:26:58 PM	0115249975	7/5/2017	7:26:58 AM	40	11.06	29	40	742	
1422 DW NE FENCE SP.txt	7/5/2017	7:50:37 AM	0115249980	7/5/2017	7:35:37 AM	1	4.02	18	56	746	
1422 DW NE FENCE SP.txt	7/5/2017	8:05:37 AM	0115249980	7/5/2017	7:35:37 AM	2	4.66	17.9	58	746	
1422 DW NE FENCE SP.txt	7/5/2017	8:20:37 AM	0115249980	7/5/2017	7:35:37 AM	3	5.12	18.5	59	746	
1422 DW NE FENCE SP.txt	7/5/2017	8:35:37 AM	0115249980	7/5/2017	7:35:37 AM	4	5.83	19.3	56	746	
1422 DW NE FENCE SP.txt	7/5/2017	8:50:37 AM	0115249980	7/5/2017	7:35:37 AM	5	4.68	19.6	57	746	
1422 DW NE FENCE SP.txt	7/5/2017	9:05:37 AM	0115249980	7/5/2017	7:35:37 AM	6	4.46	20.4	54	746	
1422 DW NE FENCE SP.txt	7/5/2017	9:20:37 AM	0115249980	7/5/2017	7:35:37 AM	7	3.15	20.3	55	746	
1422 DW NE FENCE SP.txt	7/5/2017	9:35:37 AM	0115249980	7/5/2017	7:35:37 AM	8	2.1	20.2	57	746	
1422 DW NE FENCE SP.txt	7/5/2017	9:50:37 AM	0115249980	7/5/2017	7:35:37 AM	9	2.71	20.6	56	746	
1422 DW NE FENCE SP.txt	7/5/2017	10:05:37 AM	0115249980	7/5/2017	7:35:37 AM	10	0.71	21.4	54	746	
1422 DW NE FENCE SP.txt	7/5/2017	10:20:37 AM	0115249980	7/5/2017	7:35:37 AM	11	7.53	22	53	746	
1422 DW NE FENCE SP.txt	7/5/2017	10:35:37 AM	0115249980	7/5/2017	7:35:37 AM	12	14.33	22.7	52	746	
1422 DW NE FENCE SP.txt	7/5/2017	10:50:37 AM	0115249980	7/5/2017	7:35:37 AM	13	2.82	23.2	53	744	
1422 DW NE FENCE SP.txt	7/5/2017	11:05:37 AM	0115249980	7/5/2017	7:35:37 AM	14	1.64	23.4	56	744	
1422 DW NE FENCE SP.txt	7/5/2017	11:20:37 AM	0115249980	7/5/2017	7:35:37 AM	15	3.89	23.8	54	744	
1422 DW NE FENCE SP.txt	7/5/2017	11:35:37 AM	0115249980	7/5/2017	7:35:37 AM	16	3.73	24.3	54	744	
1422 DW NE FENCE SP.txt	7/5/2017	11:50:37 AM	0115249980	7/5/2017	7:35:37 AM	17	14.75	24.9	52	744	
1422 DW NE FENCE SP.txt	7/5/2017	12:05:37 PM	0115249980	7/5/2017	7:35:37 AM	18	1.69	25.2	52	744	
1422 DW NE FENCE SP.txt	7/5/2017	12:20:37 PM	0115249980	7/5/2017	7:35:37 AM	19	0.99	25.5	51	744	
1422 DW NE FENCE SP.txt	7/5/2017	12:35:37 PM	0115249980	7/5/2017	7:35:37 AM	20	1.23	26.3	48	744	
1422 DW NE FENCE SP.txt	7/5/2017	12:50:37 PM	0115249980	7/5/2017	7:35:37 AM	21	4.19	27.9	42	744	
1422 DW NE FENCE SP.txt	7/5/2017	1:05:37 PM	0115249980	7/5/2017	7:35:37 AM	22	1.08	29.4	37	744	
1422 DW NE FENCE SP.txt	7/5/2017	1:20:37 PM	0115249980	7/5/2017	7:35:37 AM	23	18.03	30.5	34	744	
1422 DW NE FENCE SP.txt	7/5/2017	1:35:37 PM	0115249980	7/5/2017	7:35:37 AM	24	-0.48	31.6	32	744	
1422 DW NE FENCE SP.txt	7/5/2017	1:50:37 PM	0115249980	7/5/2017	7:35:37 AM	25	1.08	32.5	30	744	
1422 DW NE FENCE SP.txt	7/5/2017	2:05:37 PM	0115249980	7/5/2017	7:35:37 AM	26	7.2	33.4	30	744	
1422 DW NE FENCE SP.txt	7/5/2017	2:20:37 PM	0115249980	7/5/2017	7:35:37 AM	27	-1.93	34.1	28	744	
1422 DW NE FENCE SP.txt	7/5/2017	2:35:37 PM	0115249980	7/5/2017	7:35:37 AM	28	2.3	34	29	744	
1422 DW NE FENCE SP.txt	7/5/2017	2:50:37 PM	0115249980	7/5/2017	7:35:37 AM	29	19.69	33.8	30	744	
1422 DW NE FENCE SP.txt	7/5/2017	3:05:37 PM	0115249980	7/5/2017	7:35:37 AM	30	-0.09	33.5	30	744	
1422 DW NE FENCE SP.txt	7/5/2017	3:20:37 PM	0115249980	7/5/2017	7:35:37 AM	31	10.44	32.5	32	744	
1422 DW NE FENCE SP.txt	7/5/2017	3:35:37 PM	0115249980	7/5/2017	7:35:37 AM	32	1.58	32.3	33	744	
1422 DW NE FENCE SP.txt	7/5/2017	3:50:37 PM	0115249980	7/5/2017	7:35:37 AM	33	4.26	33.3	32	744	
1422 DW NE FENCE SP.txt	7/5/2017	4:05:37 PM	0115249980	7/5/2017	7:35:37 AM	34	17.66	34.5	31	744	
1422 DW NE FENCE SP.txt	7/5/2017	4:20:37 PM	0115249980	7/5/2017	7:35:37 AM	35	22.51	35.8	29	744	
1422 DW NE FENCE SP.txt	7/5/2017	4:35:37 PM	0115249980	7/5/2017	7:35:37 AM	36	5.25	35.8	28	744	
1422 DW NE FENCE SP.txt	7/5/2017	4:50:37 PM	0115249980	7/5/2017	7:35:37 AM	37	11.36	34.9	30	744	
1422 DW NE FENCE SP.txt	7/5/2017	5:05:37 PM	0115249980	7/5/2017	7:35:37 AM	38	6.66	32.9	31	744	
1422 DW NE FENCE SP.txt	7/5/2017	5:20:37 PM	0115249980	7/5/2017	7:35:37 AM	39	17.12	31.8	35	742	
1429 DW N FENCE TC.txt	7/5/2017	7:41:10 AM	0115250009	7/5/2017	7:26:10 AM	1	4.56	19.7	53	746	
1429 DW N FENCE TC.txt	7/5/2017	7:56:10 AM	0115250009	7/5/2017	7:26:10 AM	2	4.69	19.1	56	746	
1429 DW N FENCE TC.txt	7/5/2017	8:11:10 AM	0115250009	7/5/2017	7:26:10 AM	3	5.31	19.2	57	746	
1429 DW N FENCE TC.txt	7/5/2017	8:26:10 AM	0115250009	7/5/2017	7:26:10 AM	4	5.95	20.5	52	746	
1429 DW N FENCE TC.txt	7/5/2017	8:41:10 AM	0115250009	7/5/2017	7:26:10 AM	5	3.97	22.2	48	746	
1429 DW N FENCE TC.txt	7/5/2017	8:56:10 AM	0115250009	7/5/2017	7:26:10 AM	6	3.78	23.8	45	746	
1429 DW N FENCE TC.txt	7/5/2017	9:11:10 AM	0115250009	7/5/2017	7:26:10 AM	7	1.77	24.9	42	746	
1429 DW N FENCE TC.txt	7/5/2017	9:26:10 AM	0115250009	7/5/2017	7:26:10 AM	8	1.73	25.3	41	746	
1429 DW N FENCE TC.txt	7/5/2017	9:41:10 AM	0115250009	7/5/2017	7:26:10 AM	9	2.05	25.7	42	746	
1429 DW N FENCE TC.txt	7/5/2017	9:56:10 AM	0115250009	7/5/2017	7:26:10 AM	10	0.5	26.2	41	746	
1429 DW N FENCE TC.txt	7/5/2017	10:11:10 AM	0115250009	7/5/2017	7:26:10 AM	11	0.93	27	40	746	
1429 DW N FENCE TC.txt	7/5/2017	10:26:10 AM	0115250009	7/5/2017	7:26:10 AM	12	1.15	27.4	40	746	
1429 DW N FENCE TC.txt	7/5/2017	10:41:10 AM	0115250009	7/5/2017	7:26:10 AM	13	0.91	27.2	40	746	
1429 DW N FENCE TC.txt	7/5/2017	10:56:10 AM	0115250009	7/5/2017	7:26:10 AM	14	0.82	27.7	41	746	
1429 DW N FENCE TC.txt	7/5/2017	11:11:10 AM	0115250009	7/5/2017	7:26:10 AM	15	1.56	28.7	40	746	
1429 DW N FENCE TC.txt	7/5/2017	11:26:10 AM	0115250009	7/5/2017	7:26:10 AM	16	1.65	29.1	39	746	
1429 DW N FENCE TC.txt	7/5/2017	11:41:10 AM	0115250009	7/5/2017	7:26:10 AM	17	2.01	29.6	39	746	
1429 DW N FENCE TC.txt	7/5/2017	11:56:10 AM	0115250009	7/5/2017	7:26:10 AM	18	1.16	29.8	39	746	
1429 DW N FENCE TC.txt	7/5/2017	12:11:10 PM	0115250009	7/5/2017	7:26:10 AM	19	1.41	30.2	38	744	
1429 DW N FENCE TC.txt	7/5/2017	12:26:10 PM	0115250009	7/5/2017	7:26:10 AM	20	1.29	30.4	38	744	
1429 DW N FENCE TC.txt	7/5/2017	12:41:10 PM	0115250009	7/5/2017	7:26:10 AM	21	0.08	30.7	36	744	
1429 DW N FENCE TC.txt	7/5/2017	12:56:10 PM	0115250009	7/5/2017	7:26:10 AM	22	0.13	31.7	33	744	
1429 DW N FENCE TC.txt	7/5/2017	1:11:10 PM	0115250009	7/5/2017	7:26:10 AM	23	2.29	31.8	31	744	
1429 DW N FENCE TC.txt	7/5/2017	1:26:10 PM	0115250009	7/5/2017	7:26:10 AM	24	0.22	31.8	30	744	
1429 DW N FENCE TC.txt	7/5/2017	1:41:10 PM	0115250009	7/5/2017	7:26:10 AM	25	-2.52	32.1	29	744	
1429 DW N FENCE TC.txt	7/5/2017	1:56:10 PM	0115250009	7/5/2017	7:26:10 AM	26	-0.12	32.4	29	744	
1429 DW N FENCE TC.txt	7/5/2017	2:11:10 PM	0115250009	7/5/2017	7:26:10 AM	27	-0.07	32.3	29	744	
1429 DW N FENCE TC.txt	7/5/2017	2:26:10 PM	0115250009	7/5/2017	7:26:10 AM	28	-0.02	32	30	744	
1429 DW N FENCE TC.txt	7/5/2017	2:41:10 PM	0115250009	7/5/2017	7:26:10 AM	29	-0.11	31.9	31	744	
1429 DW N FENCE TC.txt	7/5/2017	2:56:10 PM	0115250009	7/5/2017	7:26:10 AM	30	1.09	32.3	31	744	
1429 DW N FENCE TC.txt	7/5/2017	3:11:10 PM	0115250009	7/5/2017	7:26:10 AM	31	3.97	31.3	34	744	
1429 DW N FENCE TC.txt	7/5/2017	3:26:10 PM	0115250009	7/5/2017	7:26:10 AM	32	5.66	30.6	35	744	
1429 DW N FENCE TC.txt	7/5/2017	3:41:10 PM	0115250009	7/5/2017	7:26:10 AM	33	1.52	30.3	36	744	
1429 DW N FENCE TC.txt	7/5/2017	3:56:10 PM	0115250009	7/5/2017	7:26:10 AM	34	2.62	31.3	35	744	
1429 DW N FENCE TC.txt	7/5/2017	4:11:10 PM	0115250009	7/5/2017	7:26:10 AM	35	3.1	31.5	35	744	
1429 DW N FENCE TC.txt	7/5/2017	4:26:10 PM	0115250009	7/5/2017	7:26:10 AM	36	2.4	31.9	34	744	
1429 DW N FENCE TC.txt	7/5/2017	4:41:10 PM	0115250009	7/5/2017	7:26:10 AM	37	2.87	31.7	35	744	
1429 DW N FENCE TC.txt	7/5/2017	4:56:10 PM	0115250009	7/5/2017	7:26:10 AM	38	3.6	31.1	36	744	
1429 DW N FENCE TC.txt	7/5/2017	5:11:10 PM	0115250009	7/5/2017	7:26:10 AM	39	7.32	29.9	38	744	
1429 DW N FENCE TC.txt	7/5/2017	5:26:10 PM	0115250009	7/5/2017	7:26:10 AM	40	5.46	29.5	40	744	
1429 DW N FENCE TC.txt	7/5/2017	5:41:10 PM	0115250009	7/5/2017	7:26:10 AM	41	4.03	29.4	41	744	
1860 DW NW FENCE SP.txt	7/5/2017	7:45:59 AM	0115250203	7/5/2017	7:30:59 AM	1	1.48	23.2	46	744	
1860 DW NW FENCE SP.txt	7/5/2017	8:00:59 AM	0115250203	7/5/2017	7:30:59 AM	2	1.63	24.6	44	744	
1860 DW NW FENCE SP.txt	7/5/2017	8:15:59 AM	0115250203	7/5/2017	7:30:59 AM	3	2.03	26.6	41	744	
1860 DW NW FENCE SP.txt	7/5/2017	8:30:59 AM	0115250203	7/5/2017	7:30:59 AM	4	8.99	29	36	744	
1860 DW NW FENCE SP.txt	7/5/2017	8:45:59 AM	0115250203	7/5/2017	7:30:59 AM	5	2.16	30.6	33	746	
1860 DW NW FENCE SP.txt	7/5/2017	9:00:59 AM	0115250203	7/5/2017	7:30:59 AM	6	6.39	30.7	33	746	
1860 DW NW FENCE SP.txt	7/5/2017	9:15:59 AM	0115250203	7/5/2017	7:30:59 AM	7	4.94	30	33	746	
1860 DW NW FENCE SP.txt	7/5/2017	9:30:59 AM	0115250203	7/5/2017	7:30:59 AM	8	0.4	29	35	746	
1860 DW NW FENCE SP.txt	7/5/2017	9:45:59 AM	0115250203	7/5/2017	7:30:59 AM	9	5.99	27.6	39	744	
1860 DW NW FENCE SP.txt	7/5/2017	10:00:59 AM	0115250203	7/5/2017	7:30:59 AM	10	0.27	27.9	38	744	
1860 DW NW FENCE SP.txt	7/5/2017	10:15:59 AM	0115250203	7/5/2017	7:30:59 AM	11	4.27	29.1	37	744	
1860 DW NW FENCE SP.txt	7/5/2017	10:30:59 AM	0115250203	7/5/2017	7:30:59 AM	12	9.94	29.5	37	744	
1860 DW NW FENCE SP.txt	7/5/2017	10:45:59 AM	0115250203	7/5/2017	7:30:59 AM	13	0.48	30.4	36	744	
1860 DW NW FENCE SP.txt	7/5/2017	11:00:59 AM	0115250203	7/5/2017	7:30:59 AM	14	3.96	31.6	35	744	
1860 DW NW FENCE SP.txt	7/5/2017	11:15:59 AM	0115250203	7/5/2017	7:30:59 AM	15	2.79	32	35	744	
1860 DW NW FENCE SP.txt	7/5/2017	11:30:59 AM	0115250203	7/5/2017	7:30:59 AM	16	3.21	32.2	35	744	
1860 DW NW FENCE SP.txt	7/5/2017	11:45:59 AM	0115250203	7/5/2017	7:30:59 AM	17	3.99	32.9	34	744	
1860 DW NW FENCE SP.txt	7/5/2017	12:00:59 PM	0115250203	7/5/2017	7:30:59 AM	18	8	32.8	34	744	
1860 DW NW FENCE SP.txt	7/5/2017	12:15:59 PM	0115250203	7/5/2017	7:30:59 AM	19	1.15	32.9	33	744	
1860 DW NW FENCE SP.txt	7/5/2017	12:30:59 PM	0115250203	7/5/2017	7:30:59 AM	20	1.16	32.9	33	744	
1860 DW NW FENCE SP.txt	7/5/2017	12:45:59 PM	0115250203	7/5/2017	7:30:59 AM	21	7.01	32.9	33	744	
1860 DW NW FENCE SP.txt	7/5/2017	1:00:59 PM	0115250203	7/5/2017	7:30:59 AM	22	0.41	33.3	31	744	
1860 DW NW FENCE SP.txt	7/5/2017	1:15:59 PM	0115250203	7/5/2017	7:30:59 AM	23	3.21	33.4	31	744	

Summary of CAMP Monitoring

Beech and Bonaparte

Former Sperry Remington Site - North Portion
Elmira, New York

Unit Location	Record Date	Record Time	Unit Serial Number	Start Date	Start Time	Record #	Dust Concentration in µg/m^3	Temp	RHumidity	AtmoPressure in mm/Hg	Notes
1860 DW NW FENCE SP.txt	7/5/2017	1:30:59 PM	0115250203	7/5/2017	7:30:59 AM	24	6.05	33.1	29	744	
1860 DW NW FENCE SP.txt	7/5/2017	1:45:59 PM	0115250203	7/5/2017	7:30:59 AM	25	-2.01	33.1	29	744	
1860 DW NW FENCE SP.txt	7/5/2017	2:00:59 PM	0115250203	7/5/2017	7:30:59 AM	26	-0.98	32.8	31	744	
1860 DW NW FENCE SP.txt	7/5/2017	2:15:59 PM	0115250203	7/5/2017	7:30:59 AM	27	-2.51	32.4	31	744	
1860 DW NW FENCE SP.txt	7/5/2017	2:30:59 PM	0115250203	7/5/2017	7:30:59 AM	28	-1.72	32.3	32	744	
1860 DW NW FENCE SP.txt	7/5/2017	2:45:59 PM	0115250203	7/5/2017	7:30:59 AM	29	-0.57	32.9	32	744	
1860 DW NW FENCE SP.txt	7/5/2017	3:00:59 PM	0115250203	7/5/2017	7:30:59 AM	30	-0.48	32.8	33	742	
1860 DW NW FENCE SP.txt	7/5/2017	3:15:59 PM	0115250203	7/5/2017	7:30:59 AM	31	0.96	32.2	34	742	
1860 DW NW FENCE SP.txt	7/5/2017	3:30:59 PM	0115250203	7/5/2017	7:30:59 AM	32	9.15	32.3	34	742	
1860 DW NW FENCE SP.txt	7/5/2017	3:45:59 PM	0115250203	7/5/2017	7:30:59 AM	33	2.34	32.6	34	742	
1860 DW NW FENCE SP.txt	7/5/2017	4:00:59 PM	0115250203	7/5/2017	7:30:59 AM	34	10.7	32.8	34	742	
1860 DW NW FENCE SP.txt	7/5/2017	4:15:59 PM	0115250203	7/5/2017	7:30:59 AM	35	19.3	33.7	33	742	
1860 DW NW FENCE SP.txt	7/5/2017	4:30:59 PM	0115250203	7/5/2017	7:30:59 AM	36	18.87	34.6	32	742	
1860 DW NW FENCE SP.txt	7/5/2017	4:45:59 PM	0115250203	7/5/2017	7:30:59 AM	37	8.73	35.1	31	742	
1860 DW NW FENCE SP.txt	7/5/2017	5:00:59 PM	0115250203	7/5/2017	7:30:59 AM	38	1.75	34.2	31	742	
1860 DW NW FENCE SP.txt	7/5/2017	5:15:59 PM	0115250203	7/5/2017	7:30:59 AM	39	22.05	32.8	34	742	
1936 DW NW CORNER SP.txt	7/5/2017	7:44:54 AM	0115250202	7/5/2017	7:29:54 AM	1	2.62	22.7	47	746	
1936 DW NW CORNER SP.txt	7/5/2017	7:59:54 AM	0115250202	7/5/2017	7:29:54 AM	2	3.24	21.7	50	746	
1936 DW NW CORNER SP.txt	7/5/2017	8:14:54 AM	0115250202	7/5/2017	7:29:54 AM	3	2.99	21.9	52	746	
1936 DW NW CORNER SP.txt	7/5/2017	8:29:54 AM	0115250202	7/5/2017	7:29:54 AM	4	9.21	23.2	48	746	
1936 DW NW CORNER SP.txt	7/5/2017	8:44:54 AM	0115250202	7/5/2017	7:29:54 AM	5	3.37	23.7	48	746	
1936 DW NW CORNER SP.txt	7/5/2017	8:59:54 AM	0115250202	7/5/2017	7:29:54 AM	6	5.36	24.5	46	746	
1936 DW NW CORNER SP.txt	7/5/2017	9:14:54 AM	0115250202	7/5/2017	7:29:54 AM	7	4.67	24.6	45	746	
1936 DW NW CORNER SP.txt	7/5/2017	9:29:54 AM	0115250202	7/5/2017	7:29:54 AM	8	1.87	25	46	746	
1936 DW NW CORNER SP.txt	7/5/2017	9:44:54 AM	0115250202	7/5/2017	7:29:54 AM	9	2.31	25.9	44	746	
1936 DW NW CORNER SP.txt	7/5/2017	9:59:54 AM	0115250202	7/5/2017	7:29:54 AM	10	0.42	26.6	42	746	
1936 DW NW CORNER SP.txt	7/5/2017	10:14:54 AM	0115250202	7/5/2017	7:29:54 AM	11	2.97	27.2	41	746	
1936 DW NW CORNER SP.txt	7/5/2017	10:29:54 AM	0115250202	7/5/2017	7:29:54 AM	12	8.74	27.4	42	746	
1936 DW NW CORNER SP.txt	7/5/2017	10:44:54 AM	0115250202	7/5/2017	7:29:54 AM	13	0.4	27.5	42	746	
1936 DW NW CORNER SP.txt	7/5/2017	10:59:54 AM	0115250202	7/5/2017	7:29:54 AM	14	3.18	28.6	44	746	
1936 DW NW CORNER SP.txt	7/5/2017	11:14:54 AM	0115250202	7/5/2017	7:29:54 AM	15	2.47	29.9	41	746	
1936 DW NW CORNER SP.txt	7/5/2017	11:29:54 AM	0115250202	7/5/2017	7:29:54 AM	16	2.95	30.3	41	746	
1936 DW NW CORNER SP.txt	7/5/2017	11:44:54 AM	0115250202	7/5/2017	7:29:54 AM	17	2.62	31.2	39	746	
1936 DW NW CORNER SP.txt	7/5/2017	11:59:54 AM	0115250202	7/5/2017	7:29:54 AM	18	4.06	31	40	746	
1936 DW NW CORNER SP.txt	7/5/2017	12:14:54 PM	0115250202	7/5/2017	7:29:54 AM	19	1.37	31.7	38	746	
1936 DW NW CORNER SP.txt	7/5/2017	12:29:54 PM	0115250202	7/5/2017	7:29:54 AM	20	1.14	32.2	37	746	
1936 DW NW CORNER SP.txt	7/5/2017	12:44:54 PM	0115250202	7/5/2017	7:29:54 AM	21	2.79	33.4	34	746	
1936 DW NW CORNER SP.txt	7/5/2017	12:59:54 PM	0115250202	7/5/2017	7:29:54 AM	22	1.15	34.2	31	746	
1936 DW NW CORNER SP.txt	7/5/2017	1:14:54 PM	0115250202	7/5/2017	7:29:54 AM	23	3.97	34	30	746	
1936 DW NW CORNER SP.txt	7/5/2017	1:29:54 PM	0115250202	7/5/2017	7:29:54 AM	24	-0.01	34.4	30	746	
1936 DW NW CORNER SP.txt	7/5/2017	1:44:54 PM	0115250202	7/5/2017	7:29:54 AM	25	-0.98	34.8	29	746	
1936 DW NW CORNER SP.txt	7/5/2017	1:59:54 PM	0115250202	7/5/2017	7:29:54 AM	26	0.53	35.4	29	746	
1936 DW NW CORNER SP.txt	7/5/2017	2:14:54 PM	0115250202	7/5/2017	7:29:54 AM	27	-0.74	35.4	28	744	
1936 DW NW CORNER SP.txt	7/5/2017	2:29:54 PM	0115250202	7/5/2017	7:29:54 AM	28	-0.8	34.7	30	744	
1936 DW NW CORNER SP.txt	7/5/2017	2:44:54 PM	0115250202	7/5/2017	7:29:54 AM	29	-0.09	34.4	31	744	
1936 DW NW CORNER SP.txt	7/5/2017	2:59:54 PM	0115250202	7/5/2017	7:29:54 AM	30	0.36	34	31	744	
1936 DW NW CORNER SP.txt	7/5/2017	3:14:54 PM	0115250202	7/5/2017	7:29:54 AM	31	1.48	32.4	34	744	
1936 DW NW CORNER SP.txt	7/5/2017	3:29:54 PM	0115250202	7/5/2017	7:29:54 AM	32	3.32	31.7	35	744	
1936 DW NW CORNER SP.txt	7/5/2017	3:44:54 PM	0115250202	7/5/2017	7:29:54 AM	33	3	32	36	744	
1936 DW NW CORNER SP.txt	7/5/2017	3:59:54 PM	0115250202	7/5/2017	7:29:54 AM	34	2.12	32.9	35	744	
1936 DW NW CORNER SP.txt	7/5/2017	4:14:54 PM	0115250202	7/5/2017	7:29:54 AM	35	4.93	33.2	34	744	
1936 DW NW CORNER SP.txt	7/5/2017	4:29:54 PM	0115250202	7/5/2017	7:29:54 AM	36	9.21	33.1	34	744	
1936 DW NW CORNER SP.txt	7/5/2017	4:44:54 PM	0115250202	7/5/2017	7:29:54 AM	37	10.61	32.6	35	744	
1936 DW NW CORNER SP.txt	7/5/2017	4:59:54 PM	0115250202	7/5/2017	7:29:54 AM	38	3.03	31.7	37	744	
1936 DW NW CORNER SP.txt	7/5/2017	5:14:54 PM	0115250202	7/5/2017	7:29:54 AM	39	9.89	30.2	40	744	
1954 UW FENCE SP.txt	7/5/2017	7:46:58 AM	0115250211	7/5/2017	7:31:58 AM	1	2.89	21.6	49	744	
1954 UW FENCE SP.txt	7/5/2017	8:01:58 AM	0115250211	7/5/2017	7:31:58 AM	2	3.27	19.8	54	744	
1954 UW FENCE SP.txt	7/5/2017	8:16:58 AM	0115250211	7/5/2017	7:31:58 AM	3	3.13	19	59	744	
1954 UW FENCE SP.txt	7/5/2017	8:31:58 AM	0115250211	7/5/2017	7:31:58 AM	4	20.23	19.2	60	744	
1954 UW FENCE SP.txt	7/5/2017	8:46:58 AM	0115250211	7/5/2017	7:31:58 AM	5	26.38	19.6	59	744	
1954 UW FENCE SP.txt	7/5/2017	9:01:58 AM	0115250211	7/5/2017	7:31:58 AM	6	26.58	20.5	57	744	
1954 UW FENCE SP.txt	7/5/2017	9:16:58 AM	0115250211	7/5/2017	7:31:58 AM	7	30.7	22	53	744	
1954 UW FENCE SP.txt	7/5/2017	9:31:58 AM	0115250211	7/5/2017	7:31:58 AM	8	18.88	23	50	744	
1954 UW FENCE SP.txt	7/5/2017	9:46:58 AM	0115250211	7/5/2017	7:31:58 AM	9	28.63	24.2	48	744	
1954 UW FENCE SP.txt	7/5/2017	10:01:58 AM	0115250211	7/5/2017	7:31:58 AM	10	1.76	25.2	45	744	
1954 UW FENCE SP.txt	7/5/2017	10:16:58 AM	0115250211	7/5/2017	7:31:58 AM	11	2.49	26.6	44	744	
1954 UW FENCE SP.txt	7/5/2017	10:31:58 AM	0115250211	7/5/2017	7:31:58 AM	12	11.06	27.2	43	744	
1954 UW FENCE SP.txt	7/5/2017	10:46:58 AM	0115250211	7/5/2017	7:31:58 AM	13	13.82	28.3	42	744	
1954 UW FENCE SP.txt	7/5/2017	11:01:58 AM	0115250211	7/5/2017	7:31:58 AM	14	5.31	29.2	42	744	
1954 UW FENCE SP.txt	7/5/2017	11:16:58 AM	0115250211	7/5/2017	7:31:58 AM	15	10.11	29.8	41	744	
1954 UW FENCE SP.txt	7/5/2017	11:31:58 AM	0115250211	7/5/2017	7:31:58 AM	16	51.37	30.5	41	744	
1954 UW FENCE SP.txt	7/5/2017	11:46:58 AM	0115250211	7/5/2017	7:31:58 AM	17	20.95	31.7	38	744	
1954 UW FENCE SP.txt	7/5/2017	12:01:58 PM	0115250211	7/5/2017	7:31:58 AM	18	9.04	32.2	38	744	
1954 UW FENCE SP.txt	7/5/2017	12:16:58 PM	0115250211	7/5/2017	7:31:58 AM	19	8.71	32.9	36	744	
1954 UW FENCE SP.txt	7/5/2017	12:31:58 PM	0115250211	7/5/2017	7:31:58 AM	20	4.09	33	35	744	
1954 UW FENCE SP.txt	7/5/2017	12:46:58 PM	0115250211	7/5/2017	7:31:58 AM	21	3.8	33.1	34	744	
1954 UW FENCE SP.txt	7/5/2017	1:01:58 PM	0115250211	7/5/2017	7:31:58 AM	22	7.7	33.9	32	744	
1954 UW FENCE SP.txt	7/5/2017	1:16:58 PM	0115250211	7/5/2017	7:31:58 AM	23	7.59	34.8	30	744	
1954 UW FENCE SP.txt	7/5/2017	1:31:58 PM	0115250211	7/5/2017	7:31:58 AM	24	1.66	34.9	30	744	
1954 UW FENCE SP.txt	7/5/2017	1:46:58 PM	0115250211	7/5/2017	7:31:58 AM	25	2.03	34.9	29	744	
1954 UW FENCE SP.txt	7/5/2017	2:01:58 PM	0115250211	7/5/2017	7:31:58 AM	26	2.44	34.9	29	744	
1954 UW FENCE SP.txt	7/5/2017	2:16:58 PM	0115250211	7/5/2017	7:31:58 AM	27	1.74	34.8	30	744	
1954 UW FENCE SP.txt	7/5/2017	2:31:58 PM	0115250211	7/5/2017	7:31:58 AM	28	2.37	34.9	30	744	
1954 UW FENCE SP.txt	7/5/2017	2:46:58 PM	0115250211	7/5/2017	7:31:58 AM	29	3.03	35.4	30	744	
1954 UW FENCE SP.txt	7/5/2017	3:01:58 PM	0115250211	7/5/2017	7:31:58 AM	30	3.76	35.4	30	744	
1954 UW FENCE SP.txt	7/5/2017	3:16:58 PM	0115250211	7/5/2017	7:31:58 AM	31	3.81	34.8	31	744	
1954 UW FENCE SP.txt	7/5/2017	3:31:58 PM	0115250211	7/5/2017	7:31:58 AM	32	4.17	34.6	31	742	
1954 UW FENCE SP.txt	7/5/2017	3:46:58 PM	0115250211	7/5/2017	7:31:58 AM	33	3.98	35	33	742	
1954 UW FENCE SP.txt	7/5/2017	4:01:58 PM	0115250211	7/5/2017	7:31:58 AM	34	4.69	35.7	32	742	
1954 UW FENCE SP.txt	7/5/2017	4:16:58 PM	0115250211	7/5/2017	7:31:58 AM	35	4.44	36.6	30	742	
1954 UW FENCE SP.txt	7/5/2017	4:31:58 PM	0115250211	7/5/2017	7:31:58 AM	36	5.41	37.5	29	742	
1954 UW FENCE SP.txt	7/5/2017	4:46:58 PM	0115250211	7/5/2017	7:31:58 AM	37	7.48	37.6	29	742	
1954 UW FENCE SP.txt	7/5/2017	5:01:58 PM	0115250211	7/5/2017	7:31:58 AM	38	6.58	36.8	29	742	
1954 UW FENCE SP.txt	7/5/2017	5:16:58 PM	0115250211	7/5/2017	7:31:58 AM	39	7.17	35.3	31	742	
2535 UW CENTER TC 1.txt	7/5/2017	7:44:21 AM	CM15111015	7/5/2017	7:29:21 AM	1	6.36	18.9	55	746	
2535 UW CENTER TC 1.txt	7/5/2017	7:59:21 AM	CM15111015	7/5/2017	7:29:21 AM	2	5.92	19.8	53	746	
2535 UW CENTER TC 1.txt	7/5/2017	8:14:21 AM	CM15111015	7/5/2017	7:29:21 AM	3	5.69	21.2	50	746	
2535 UW CENTER TC 1.txt	7/5/2017	8:29:21 AM	CM15111015	7/5/2017	7:29:21 AM	4	4.76	22.8	46	746	
2535 UW CENTER TC 1.txt	7/5/2017	8:44:21 AM	CM15111015	7/5/2017	7:29:21 AM	5	2.84	24.6	42	746	
2535 UW CENTER TC 1.txt	7/5/2017	8:59:21 AM	CM15111015	7/5/2017	7:29:21 AM	6	1.82	26	39	746	
2535 UW CENTER TC 1.txt	7/5/2017	9:14:21 AM	CM15111015	7/5/2017	7:29:21 AM	7	0.34	26.9	37	746	
2535 UW CENTER TC 1.txt	7/5/2017	9:29:21 AM	CM15111015	7/5/2017	7:29:21 AM	8	-1.12	27.7	36	746	
2535 UW CENTER TC 1.txt	7/5/2017	9:44:21 AM	CM15111015	7/5/2017	7:29:21 AM	9	-0.72	28.3	35	746	
2535 UW CENTER TC 1.txt	7/5/2017	9:59:21 AM	CM15111015	7/5/2017	7:29:21 AM	10	-1.04	28.4	36	746	
2535 UW CENTER TC 1.txt	7/5/2017	10:14:21 AM	CM15111015	7/5/2017	7:29:21 AM	11	-2.26	29.4	34	746	
2535 UW CENTER TC 1.txt	7/5/2017	10:29:21 AM	CM15111015	7/5/2017	7:29:21 AM	12	-2.02	30.3	33	746	
2535 UW CENTER TC 1.txt	7/5/2017	10:44:21 AM	CM15111015	7/5/2017	7:29:21 AM	13	-1.38	30.6	33	746	
2535 UW CENTER TC 1.txt	7/5/2017	10:59:21 AM	CM15111015	7/5/2017	7:29:21 AM	14	-1.88	32.3	32	746	
2535 UW CENTER TC 1.txt	7/5/2017	11:14:21 AM	CM15111015	7/5/2017	7:29:21 AM	15	-1.17	34	29	746	
2535 UW CENTER TC 1.txt	7/5/2017	11:29:21 AM	CM15111015	7/5/2017	7:29:21 AM	16	-1.55	35.3	28	746	
2535 UW CENTER TC 1.txt	7/5/2017	11:44:21 AM	CM15111015	7/5/2017	7:29:21 AM	17	-2.18	36.3	27	746	
2535 UW CENTER TC 1.txt	7/5/2017	11:59:21 AM	CM15111015	7/5/2017	7:29:21 AM	18	-2.11	37.4	26	746	
2535 UW CENTER TC 1.txt	7/5/2017	12:14:21 PM	CM15111015	7/5/2017	7:29:21 AM	19	-1.41	38	25	746	
2535 UW CENTER TC 2.txt	7/5/2017	4:07:00 PM	CM15111015	7/5/2017	3:52:00 PM	1	11.34	35.1	28	744	
2535 UW CENTER TC 2.txt	7/5/2017	4:22:00 PM	CM15111015	7/5/2017	3:52:00 PM	2	2.94	36.1	27	744	
2535 UW CENTER TC 2.txt	7/5/2017	4:37:00 PM	CM15111015	7/5/2017	3:52:00 PM	3	1.73	36.6	26	744	
2535 UW CENTER TC 2.txt	7/5/2017	4:52:00 PM	CM15111015	7/5/2017	3:52:00 PM	4	3.94	36.3	26	744	
2535 UW CENTER TC 2.txt	7/5/2017	5:07:00 PM	CM15111015	7/5/2017	3:52:00 PM	5	3.73	34.6	28	744	
2535 UW CENTER TC 2.txt	7/5/2017	5:22:00 PM	CM15111015	7/5/2017	3:52:00 PM	6	4.45	34	30	744	
2535 UW CENTER TC 2.txt	7/5/2017	5:37:00 PM	CM15111015	7/5/2017	3:52:00 PM	7	3.02	35	29	744	
2960 DW NE CORNER SP.txt	7/5/2017	7:44:04 AM	CM15111014	7/5/2017	7:29:04 AM	1	4.37	24.6	44	746	
2960 DW NE CORNER SP.txt	7/5/2017	7:59:04 AM	CM15111014	7/5/2017	7:29:04 AM	2	2.82	23.5	47	746	
2960 DW NE CORNER SP.txt	7/5/2017	8:14:04 AM	CM15111014	7/5/2017	7:29:04 AM	3	11.88	23.4	49	746	
2960 DW NE CORNER SP.txt	7/5/2017	8:29:04 AM	CM15111014	7/5/2017	7:29:04 AM	4	3.81	23.5	49	746	
2960 DW NE CORNER SP.txt	7/5/2017	8:44:04 AM	CM15111014	7/5/2017	7:29:04 AM	5	5.29	22.3	52	746	
2960 DW NE CORNER SP.txt	7/5/2017	8:59:04 AM	CM15111014	7/5/2017	7:29:04 AM	6	4.3	22.5	53	746	
2960 DW NE CORNER SP.txt	7/5/2017	9:14:04 AM	CM15111014	7/5/2017	7:29:04 AM	7	3.78	23	52	746	
2960 DW NE CORNER SP.txt	7/5/2017	9:29:04 AM	CM15111014	7/5/2017	7:29:04 AM	8	1.98	22.4	53	746	

Summary of CAMP Monitoring

Beech and Bonaparte

Former Sperry Remington Site - North Portion
Elmira, New York

Unit Location	Record Date	Record Time	Unit Serial Number	Start Date	Start Time	Record #	Dust Concentration in µg/m^3	Temp	RHumidity	AtmoPressure in mm/Hg	Notes
2960 DW NE CORNER SP.txt	7/5/2017	9:44:04 AM	CM15111014	7/5/2017	7:29:04 AM	9	4.47	22.8	54	746	
2960 DW NE CORNER SP.txt	7/5/2017	9:59:04 AM	CM15111014	7/5/2017	7:29:04 AM	10	1.21	23.8	51	746	
2960 DW NE CORNER SP.txt	7/5/2017	10:14:04 AM	CM15111014	7/5/2017	7:29:04 AM	11	3.67	25.4	48	746	
2960 DW NE CORNER SP.txt	7/5/2017	10:29:04 AM	CM15111014	7/5/2017	7:29:04 AM	12	1.94	26.6	46	746	
2960 DW NE CORNER SP.txt	7/5/2017	10:44:04 AM	CM15111014	7/5/2017	7:29:04 AM	13	1.71	28	43	746	
2960 DW NE CORNER SP.txt	7/5/2017	10:59:04 AM	CM15111014	7/5/2017	7:29:04 AM	14	2.26	30	40	746	
2960 DW NE CORNER SP.txt	7/5/2017	11:14:04 AM	CM15111014	7/5/2017	7:29:04 AM	15	5.92	32.1	37	746	
2960 DW NE CORNER SP.txt	7/5/2017	11:29:04 AM	CM15111014	7/5/2017	7:29:04 AM	16	7.7	33.7	35	746	
2960 DW NE CORNER SP.txt	7/5/2017	11:44:04 AM	CM15111014	7/5/2017	7:29:04 AM	17	6.6	35.2	33	746	
2960 DW NE CORNER SP.txt	7/5/2017	11:59:04 AM	CM15111014	7/5/2017	7:29:04 AM	18	3.58	35.6	33	746	
2960 DW NE CORNER SP.txt	7/5/2017	12:14:04 PM	CM15111014	7/5/2017	7:29:04 AM	19	2.12	36.1	31	746	
2960 DW NE CORNER SP.txt	7/5/2017	12:29:04 PM	CM15111014	7/5/2017	7:29:04 AM	20	6.69	36.5	30	746	
2960 DW NE CORNER SP.txt	7/5/2017	12:44:04 PM	CM15111014	7/5/2017	7:29:04 AM	21	3.7	37.7	27	746	
2960 DW NE CORNER SP.txt	7/5/2017	12:59:04 PM	CM15111014	7/5/2017	7:29:04 AM	22	0.37	38.1	25	746	
2960 DW NE CORNER SP.txt	7/5/2017	1:14:04 PM	CM15111014	7/5/2017	7:29:04 AM	23	8.92	37.2	25	746	
2960 DW NE CORNER SP.txt	7/5/2017	1:29:04 PM	CM15111014	7/5/2017	7:29:04 AM	24	-0.53	37.5	25	746	
2960 DW NE CORNER SP.txt	7/5/2017	1:44:04 PM	CM15111014	7/5/2017	7:29:04 AM	25	-1.59	37.6	25	746	
2960 DW NE CORNER SP.txt	7/5/2017	1:59:04 PM	CM15111014	7/5/2017	7:29:04 AM	26	-1.59	37.7	25	744	
2960 DW NE CORNER SP.txt	7/5/2017	2:14:04 PM	CM15111014	7/5/2017	7:29:04 AM	27	4.5	37.9	25	744	
2960 DW NE CORNER SP.txt	7/5/2017	2:29:04 PM	CM15111014	7/5/2017	7:29:04 AM	28	2.2	37.1	26	744	
2960 DW NE CORNER SP.txt	7/5/2017	2:44:04 PM	CM15111014	7/5/2017	7:29:04 AM	29	-0.83	36.4	27	744	
2960 DW NE CORNER SP.txt	7/5/2017	2:59:04 PM	CM15111014	7/5/2017	7:29:04 AM	30	0.5	36	29	744	
2960 DW NE CORNER SP.txt	7/5/2017	3:14:04 PM	CM15111014	7/5/2017	7:29:04 AM	31	0.03	34.3	31	744	
2960 DW NE CORNER SP.txt	7/5/2017	3:29:04 PM	CM15111014	7/5/2017	7:29:04 AM	32	0.98	33.4	33	744	
2960 DW NE CORNER SP.txt	7/5/2017	3:44:04 PM	CM15111014	7/5/2017	7:29:04 AM	33	1.29	33.7	34	744	
2960 DW NE CORNER SP.txt	7/5/2017	3:59:04 PM	CM15111014	7/5/2017	7:29:04 AM	34	0.91	35.2	32	744	
2960 DW NE CORNER SP.txt	7/5/2017	4:14:04 PM	CM15111014	7/5/2017	7:29:04 AM	35	5.99	36	31	744	
2960 DW NE CORNER SP.txt	7/5/2017	4:29:04 PM	CM15111014	7/5/2017	7:29:04 AM	36	5.45	36.3	30	744	
2960 DW NE CORNER SP.txt	7/5/2017	4:44:04 PM	CM15111014	7/5/2017	7:29:04 AM	37	5.4	35.5	31	744	
2960 DW NE CORNER SP.txt	7/5/2017	4:59:04 PM	CM15111014	7/5/2017	7:29:04 AM	38	2.54	34	32	744	
2960 DW NE CORNER SP.txt	7/5/2017	5:14:04 PM	CM15111014	7/5/2017	7:29:04 AM	39	3.48	31.8	37	744	
801 DW NE CORNER TC.txt	7/5/2017	7:44:49 AM	0115249188	7/5/2017	7:29:49 AM	1	0.47	19.1	54	744	
801 DW NE CORNER TC.txt	7/5/2017	7:59:49 AM	0115249188	7/5/2017	7:29:49 AM	2	1.5	19.1	54	744	
801 DW NE CORNER TC.txt	7/5/2017	8:14:49 AM	0115249188	7/5/2017	7:29:49 AM	3	1.84	19.5	54	744	
801 DW NE CORNER TC.txt	7/5/2017	8:29:49 AM	0115249188	7/5/2017	7:29:49 AM	4	1.77	20.8	51	744	
801 DW NE CORNER TC.txt	7/5/2017	8:44:49 AM	0115249188	7/5/2017	7:29:49 AM	5	0.77	22.6	47	744	
801 DW NE CORNER TC.txt	7/5/2017	8:59:49 AM	0115249188	7/5/2017	7:29:49 AM	6	0.67	24.7	42	744	
801 DW NE CORNER TC.txt	7/5/2017	9:14:49 AM	0115249188	7/5/2017	7:29:49 AM	7	-0.63	26.1	39	744	
801 DW NE CORNER TC.txt	7/5/2017	9:29:49 AM	0115249188	7/5/2017	7:29:49 AM	8	-1.36	26.5	37	744	
801 DW NE CORNER TC.txt	7/5/2017	9:44:49 AM	0115249188	7/5/2017	7:29:49 AM	9	-1.29	26.9	38	744	
801 DW NE CORNER TC.txt	7/5/2017	9:59:49 AM	0115249188	7/5/2017	7:29:49 AM	10	-1.5	27.6	37	744	
801 DW NE CORNER TC.txt	7/5/2017	10:14:49 AM	0115249188	7/5/2017	7:29:49 AM	11	-1.99	28.5	35	744	
801 DW NE CORNER TC.txt	7/5/2017	10:29:49 AM	0115249188	7/5/2017	7:29:49 AM	12	-1.87	28.8	34	744	
801 DW NE CORNER TC.txt	7/5/2017	10:44:49 AM	0115249188	7/5/2017	7:29:49 AM	13	-1.98	28.3	36	744	
801 DW NE CORNER TC.txt	7/5/2017	10:59:49 AM	0115249188	7/5/2017	7:29:49 AM	14	-1.77	28.8	37	744	
801 DW NE CORNER TC.txt	7/5/2017	11:14:49 AM	0115249188	7/5/2017	7:29:49 AM	15	-1.39	29.9	36	744	
801 DW NE CORNER TC.txt	7/5/2017	11:29:49 AM	0115249188	7/5/2017	7:29:49 AM	16	-0.82	30.4	35	744	
801 DW NE CORNER TC.txt	7/5/2017	11:44:49 AM	0115249188	7/5/2017	7:29:49 AM	17	-0.9	31.1	34	744	
801 DW NE CORNER TC.txt	7/5/2017	11:59:49 AM	0115249188	7/5/2017	7:29:49 AM	18	-0.82	31.4	33	742	
801 DW NE CORNER TC.txt	7/5/2017	12:14:49 PM	0115249188	7/5/2017	7:29:49 AM	19	-0.62	31.7	33	742	
801 DW NE CORNER TC.txt	7/5/2017	12:29:49 PM	0115249188	7/5/2017	7:29:49 AM	20	-1.48	32.2	32	742	
801 DW NE CORNER TC.txt	7/5/2017	12:44:49 PM	0115249188	7/5/2017	7:29:49 AM	21	-1.98	32.2	31	742	
801 DW NE CORNER TC.txt	7/5/2017	12:59:49 PM	0115249188	7/5/2017	7:29:49 AM	22	-1.93	33.1	29	742	
801 DW NE CORNER TC.txt	7/5/2017	1:14:49 PM	0115249188	7/5/2017	7:29:49 AM	23	-1.5	33.1	27	742	
801 DW NE CORNER TC.txt	7/5/2017	1:29:49 PM	0115249188	7/5/2017	7:29:49 AM	24	-1.3	32.8	26	742	
801 DW NE CORNER TC.txt	7/5/2017	1:44:49 PM	0115249188	7/5/2017	7:29:49 AM	25	-3.83	33	26	742	
801 DW NE CORNER TC.txt	7/5/2017	1:59:49 PM	0115249188	7/5/2017	7:29:49 AM	26	-3.43	33.1	25	742	
801 DW NE CORNER TC.txt	7/5/2017	2:14:49 PM	0115249188	7/5/2017	7:29:49 AM	27	-3.86	32.7	26	742	
801 DW NE CORNER TC.txt	7/5/2017	2:29:49 PM	0115249188	7/5/2017	7:29:49 AM	28	-3.28	32.4	27	742	
801 DW NE CORNER TC.txt	7/5/2017	2:44:49 PM	0115249188	7/5/2017	7:29:49 AM	29	-2.37	32.4	28	742	
801 DW NE CORNER TC.txt	7/5/2017	2:59:49 PM	0115249188	7/5/2017	7:29:49 AM	30	-1.73	32.5	28	742	
801 DW NE CORNER TC.txt	7/5/2017	3:14:49 PM	0115249188	7/5/2017	7:29:49 AM	31	-0.01	31.4	30	742	
801 DW NE CORNER TC.txt	7/5/2017	3:29:49 PM	0115249188	7/5/2017	7:29:49 AM	32	0.3	30.6	32	742	
801 DW NE CORNER TC.txt	7/5/2017	3:44:49 PM	0115249188	7/5/2017	7:29:49 AM	33	-0.77	30.2	33	742	
801 DW NE CORNER TC.txt	7/5/2017	3:59:49 PM	0115249188	7/5/2017	7:29:49 AM	34	-0.34	30.8	33	742	
801 DW NE CORNER TC.txt	7/5/2017	4:14:49 PM	0115249188	7/5/2017	7:29:49 AM	35	0.75	30.9	33	742	
801 DW NE CORNER TC.txt	7/5/2017	4:29:49 PM	0115249188	7/5/2017	7:29:49 AM	36	-0.3	31.2	32	742	
801 DW NE CORNER TC.txt	7/5/2017	4:44:49 PM	0115249188	7/5/2017	7:29:49 AM	37	2.01	31.1	33	742	
801 DW NE CORNER TC.txt	7/5/2017	4:59:49 PM	0115249188	7/5/2017	7:29:49 AM	38	1.2	30.5	34	742	
801 DW NE CORNER TC.txt	7/5/2017	5:14:49 PM	0115249188	7/5/2017	7:29:49 AM	39	2.17	29.5	36	742	
801 DW NE CORNER TC.txt	7/5/2017	5:29:49 PM	0115249188	7/5/2017	7:29:49 AM	40	3.43	29.1	38	742	
801 DW NE CORNER TC.txt	7/5/2017	5:44:49 PM	0115249188	7/5/2017	7:29:49 AM	41	1.17	29.1	38	742	
818 DW NW FENCE TC.txt	7/5/2017	7:41:24 AM	0115249311	7/5/2017	7:26:24 AM	1	-2.8	22	50	746	
818 DW NW FENCE TC.txt	7/5/2017	7:56:24 AM	0115249311	7/5/2017	7:26:24 AM	2	-3.79	24.7	45	746	
818 DW NW FENCE TC.txt	7/5/2017	8:11:24 AM	0115249311	7/5/2017	7:26:24 AM	3	-2.6	27.8	39	746	
818 DW NW FENCE TC.txt	7/5/2017	8:26:24 AM	0115249311	7/5/2017	7:26:24 AM	4	-3.73	30	33	746	
818 DW NW FENCE TC.txt	7/5/2017	8:41:24 AM	0115249311	7/5/2017	7:26:24 AM	5	-3.02	31.6	32	746	
818 DW NW FENCE TC.txt	7/5/2017	8:56:24 AM	0115249311	7/5/2017	7:26:24 AM	6	-3	32.4	30	746	
818 DW NW FENCE TC.txt	7/5/2017	9:11:24 AM	0115249311	7/5/2017	7:26:24 AM	7	-4.86	32.7	29	746	
818 DW NW FENCE TC.txt	7/5/2017	9:26:24 AM	0115249311	7/5/2017	7:26:24 AM	8	-6.34	32.2	30	746	
818 DW NW FENCE TC.txt	7/5/2017	9:41:24 AM	0115249311	7/5/2017	7:26:24 AM	9	-6.41	31.4	32	746	
818 DW NW FENCE TC.txt	7/5/2017	9:56:24 AM	0115249311	7/5/2017	7:26:24 AM	10	-5.75	30.7	33	746	
818 DW NW FENCE TC.txt	7/5/2017	10:11:24 AM	0115249311	7/5/2017	7:26:24 AM	11	-6.06	30.7	34	746	
818 DW NW FENCE TC.txt	7/5/2017	10:26:24 AM	0115249311	7/5/2017	7:26:24 AM	12	-3.07	31	34	746	
818 DW NW FENCE TC.txt	7/5/2017	10:41:24 AM	0115249311	7/5/2017	7:26:24 AM	13	-6.49	31	35	746	
818 DW NW FENCE TC.txt	7/5/2017	10:56:24 AM	0115249311	7/5/2017	7:26:24 AM	14	-5.46	31.9	35	746	
818 DW NW FENCE TC.txt	7/5/2017	11:11:24 AM	0115249311	7/5/2017	7:26:24 AM	15	-5.61	32.1	35	746	
818 DW NW FENCE TC.txt	7/5/2017	11:26:24 AM	0115249311	7/5/2017	7:26:24 AM	16	-5.54	32.3	35	746	
818 DW NW FENCE TC.txt	7/5/2017	11:41:24 AM	0115249311	7/5/2017	7:26:24 AM	17	-4.74	33	34	746	
818 DW NW FENCE TC.txt	7/5/2017	11:56:24 AM	0115249311	7/5/2017	7:26:24 AM	18	-5.25	33.1	34	746	
818 DW NW FENCE TC.txt	7/5/2017	12:11:24 PM	0115249311	7/5/2017	7:26:24 AM	19	-5.2	33	35	746	
818 DW NW FENCE TC.txt	7/5/2017	12:26:24 PM	0115249311	7/5/2017	7:26:24 AM	20	-6.25	33	34	746	
818 DW NW FENCE TC.txt	7/5/2017	12:41:24 PM	0115249311	7/5/2017	7:26:24 AM	21	-6.61	33.1	33	744	
818 DW NW FENCE TC.txt	7/5/2017	12:56:24 PM	0115249311	7/5/2017	7:26:24 AM	22	-7.36	33.5	32	744	
818 DW NW FENCE TC.txt	7/5/2017	1:11:24 PM	0115249311	7/5/2017	7:26:24 AM	23	-5.05	33.9	29	744	
818 DW NW FENCE TC.txt	7/5/2017	1:26:24 PM	0115249311	7/5/2017	7:26:24 AM	24	-9.13	33.9	29	744	
818 DW NW FENCE TC.txt	7/5/2017	1:41:24 PM	0115249311	7/5/2017	7:26:24 AM	25	-8.41	33.6	29	744	
818 DW NW FENCE TC.txt	7/5/2017	1:56:24 PM	0115249311	7/5/2017	7:26:24 AM	26	-7.91	33.6	29	744	
818 DW NW FENCE TC.txt	7/5/2017	2:11:24 PM	0115249311	7/5/2017	7:26:24 AM	27	-8.67	32.9	30	744	
818 DW NW FENCE TC.txt	7/5/2017	2:26:24 PM	0115249311	7/5/2017	7:26:24 AM	28	-7.89	32.3	31	744	
818 DW NW FENCE TC.txt	7/5/2017	2:41:24 PM	0115249311	7/5/2017	7:26:24 AM	29	-7.12	32.6	33	744	
818 DW NW FENCE TC.txt	7/5/2017	2:56:24 PM	0115249311	7/5/2017	7:26:24 AM	30	-5.54	33.5	31	744	
818 DW NW FENCE TC.txt	7/5/2017	3:11:24 PM	0115249311	7/5/2017	7:26:24 AM	31	-6.78	32.8	33	744	
818 DW NW FENCE TC.txt	7/5/2017	3:26:24 PM	0115249311	7/5/2017	7:26:24 AM	32	-3.69	32.7	33	744	
818 DW NW FENCE TC.txt	7/5/2017	3:41:24 PM	0115249311	7/5/2017	7:26:24 AM	33	-6.14	32.4	34	744	
818 DW NW FENCE TC.txt	7/5/2017	3:56:24 PM	0115249311	7/5/2017	7:26:24 AM	34	-6.19	32.5	34	744	
818 DW NW FENCE TC.txt	7/5/2017	4:11:24 PM	0115249311	7/5/2017	7:26:24 AM	35	-5.86	33.5	34	744	
818 DW NW FENCE TC.txt	7/5/2017	4:26:24 PM	0115249311	7/5/2017	7:26:24 AM	36	-5.67	34.8	31	744	
818 DW NW FENCE TC.txt	7/5/2017	4:41:24 PM	0115249311	7/5/2017	7:26:24 AM	37	-5.74	35.3	30	744	
818 DW NW FENCE TC.txt	7/5/2017	4:56:24 PM	0115249311	7/5/2017	7:26:24 AM	38	-4.93	35.5	30	744	
818 DW NW FENCE TC.txt	7/5/2017	5:11:24 PM	0115249311	7/5/2017	7:26:24 AM	39	-3.6	34.5	32	744	
818 DW NW FENCE TC.txt	7/5/2017	5:26:24 PM	0115249311	7/5/2017	7:26:24 AM	40	-3.96	34.7	32	744	
2535 UW TEE POST TC.txt	7/6/2017	12:00:00 AM	CM15111015	7/6/2017	7:39:51 AM	4	-1.42	21.3	57	742	Calibration test
2535 UW TEE POST TC.txt	7/6/2017	12:00:00 AM	CM15111015	7/6/2017	7:39:51 AM	5	-2.26	21.9	56	742	Calibration test
2535 UW TEE POST TC.txt	7/6/2017	12:00:00 AM	CM15111015	7/6/2017	7:39:51 AM	3	-1.52	21.4	56	742	Calibration test
2535 UW TEE POST TC.txt	7/6/2017	12:00:00 AM	CM15111015	7/6/2017	7:39:51 AM	1	5.72	19.3	61	742	Calibration test
2535 UW TEE POST TC.txt	7/6/2017	12:00:00 AM	CM15111015	7/6/2017	7:39:51 AM	2	-1.88	21	58	742	Calibration test
2535 UW TEE POST TC.txt	7/6/2017	12:00:00 AM	CM15111015	7/6/2017	7:39:51 AM	13	0.73	26.1	47	744	Calibration test
2535 UW TEE POST TC.txt	7/6/2017	12:00:00 AM	CM15111015	7/6/2017	7:39:51 AM	6	-2.1	22.7	54	744	Calibration test
2535 UW TEE POST TC.txt	7/6/2017	12:00:00 AM	CM15111015	7/6/2017	7:39:51 AM	23	4.28	27.2	50	742	Calibration test
2535 UW TEE POST TC.txt	7/6/2017	12:00:00 AM	CM15111015	7/6/2017	7:39:51 AM	22	6.22	26.1	52	742	Calibration test
2535 UW TEE POST TC.txt	7/6/2017	12:00:00 AM	CM15111015	7/6/2017	7:39:51 AM	21	5.69	26	52	742	Calibration test
2535 UW TEE POST TC.txt	7/6/2017	12:00:00 AM	CM15111015	7/6/2017	7:39:51 AM	24	5.13	28.4	47	742	Calibration test
2535 UW TEE POST TC.txt	7/6/2017	12:00:00 AM	CM15111015	7/6/2017	7:39:51 AM	27	13.26	26.9	51	742	Calibration test
2535 UW TEE POST TC.txt	7/6/2017	12:00:00 AM	CM15111015	7/6/2017	7:39:51 AM	26	10.18	28	47	742	Calibration test

Summary of CAMP Monitoring

Beech and Bonaparte

Former Sperry Remington Site - North Portion
Elmira, New York

Unit Location	Record Date	Record Time	Unit Serial Number	Start Date	Start Time	Record #	Dust Concentration in µg/m^3	Temp	RHumidity	AtmoPressure in mm/Hg	Notes
2535 UW TEE POST TC.txt	7/6/2017	12:00:00 AM	CM15111015	7/6/2017	7:39:51 AM	25	6.57	28.7	46	742	Calibration test
2535 UW TEE POST TC.txt	7/6/2017	12:00:00 AM	CM15111015	7/6/2017	7:39:51 AM	16	2.63	26.9	48	742	Calibration test
2535 UW TEE POST TC.txt	7/6/2017	12:00:00 AM	CM15111015	7/6/2017	7:39:51 AM	15	-1.72	26.9	48	742	Calibration test
2535 UW TEE POST TC.txt	7/6/2017	12:00:00 AM	CM15111015	7/6/2017	7:39:51 AM	14	5.93	26.2	48	742	Calibration test
2535 UW TEE POST TC.txt	7/6/2017	12:00:00 AM	CM15111015	7/6/2017	7:39:51 AM	17	4.98	26	51	742	Calibration test
2535 UW TEE POST TC.txt	7/6/2017	12:00:00 AM	CM15111015	7/6/2017	7:39:51 AM	20	8.42	25.6	54	742	Calibration test
2535 UW TEE POST TC.txt	7/6/2017	12:00:00 AM	CM15111015	7/6/2017	7:39:51 AM	19	9.03	25	55	742	Calibration test
2535 UW TEE POST TC.txt	7/6/2017	12:00:00 AM	CM15111015	7/6/2017	7:39:51 AM	18	17.54	25.1	54	742	Calibration test
2535 UW TEE POST TC.txt	7/6/2017	12:00:00 AM	CM15111015	7/6/2017	7:39:51 AM	28	5.9	26.9	51	742	Calibration test
2535 UW TEE POST TC.txt	7/6/2017	12:00:00 AM	CM15111015	7/6/2017	7:39:51 AM	11	-1.84	25.3	49	744	Calibration test
2535 UW TEE POST TC.txt	7/6/2017	12:00:00 AM	CM15111015	7/6/2017	7:39:51 AM	12	-0.73	25.7	48	744	Calibration test
2535 UW TEE POST TC.txt	7/6/2017	12:00:00 AM	CM15111015	7/6/2017	7:39:51 AM	36	-1.11	27.4	50	742	Calibration test
2535 UW TEE POST TC.txt	7/6/2017	12:00:00 AM	CM15111015	7/6/2017	7:39:51 AM	10	-3.16	25	50	744	Calibration test
2535 UW TEE POST TC.txt	7/6/2017	12:00:00 AM	CM15111015	7/6/2017	7:39:51 AM	7	-2.89	23.3	53	744	Calibration test
2535 UW TEE POST TC.txt	7/6/2017	12:00:00 AM	CM15111015	7/6/2017	7:39:51 AM	8	-3.22	24	52	744	Calibration test
2535 UW TEE POST TC.txt	7/6/2017	12:00:00 AM	CM15111015	7/6/2017	7:39:51 AM	9	-3.12	24.8	50	744	Calibration test
2535 UW TEE POST TC.txt	7/6/2017	12:00:00 AM	CM15111015	7/6/2017	7:39:51 AM	31	7.43	27.2	50	742	Calibration test
2535 UW TEE POST TC.txt	7/6/2017	12:00:00 AM	CM15111015	7/6/2017	7:39:51 AM	30	10.71	27.2	50	742	Calibration test
2535 UW TEE POST TC.txt	7/6/2017	12:00:00 AM	CM15111015	7/6/2017	7:39:51 AM	29	9.93	27.3	50	742	Calibration test
2535 UW TEE POST TC.txt	7/6/2017	12:00:00 AM	CM15111015	7/6/2017	7:39:51 AM	32	5.75	27.8	49	742	Calibration test
2535 UW TEE POST TC.txt	7/6/2017	12:00:00 AM	CM15111015	7/6/2017	7:39:51 AM	35	-3.39	28.1	48	742	Calibration test
2535 UW TEE POST TC.txt	7/6/2017	12:00:00 AM	CM15111015	7/6/2017	7:39:51 AM	34	0.42	28.8	46	742	Calibration test
2535 UW TEE POST TC.txt	7/6/2017	12:00:00 AM	CM15111015	7/6/2017	7:39:51 AM	33	2.96	28.8	46	742	Calibration test
1421 DW NW CORNER TC.txt	7/6/2017	7:43:42 AM	0115249975	7/6/2017	7:28:42 AM	1	9.08	19.6	61	742	
1421 DW NW CORNER TC.txt	7/6/2017	7:58:42 AM	0115249975	7/6/2017	7:28:42 AM	2	8.28	20.3	61	742	
1421 DW NW CORNER TC.txt	7/6/2017	8:13:42 AM	0115249975	7/6/2017	7:28:42 AM	3	6.9	20.7	59	742	
1421 DW NW CORNER TC.txt	7/6/2017	8:28:42 AM	0115249975	7/6/2017	7:28:42 AM	4	12	20.7	59	742	
1421 DW NW CORNER TC.txt	7/6/2017	8:43:42 AM	0115249975	7/6/2017	7:28:42 AM	5	9.78	21	59	742	
1421 DW NW CORNER TC.txt	7/6/2017	8:58:42 AM	0115249975	7/6/2017	7:28:42 AM	6	16.1	21.3	58	742	
1421 DW NW CORNER TC.txt	7/6/2017	9:13:42 AM	0115249975	7/6/2017	7:28:42 AM	7	11.91	21.7	58	742	
1421 DW NW CORNER TC.txt	7/6/2017	9:28:42 AM	0115249975	7/6/2017	7:28:42 AM	8	13.24	22	58	742	
1421 DW NW CORNER TC.txt	7/6/2017	9:43:42 AM	0115249975	7/6/2017	7:28:42 AM	9	14.32	22.5	57	742	
1421 DW NW CORNER TC.txt	7/6/2017	9:58:42 AM	0115249975	7/6/2017	7:28:42 AM	10	12.89	22.6	57	742	
1421 DW NW CORNER TC.txt	7/6/2017	10:13:42 AM	0115249975	7/6/2017	7:28:42 AM	11	13.36	22.8	56	742	
1421 DW NW CORNER TC.txt	7/6/2017	10:28:42 AM	0115249975	7/6/2017	7:28:42 AM	12	9.37	23	56	742	
1421 DW NW CORNER TC.txt	7/6/2017	10:43:42 AM	0115249975	7/6/2017	7:28:42 AM	13	7.15	23.3	55	742	
1421 DW NW CORNER TC.txt	7/6/2017	10:58:42 AM	0115249975	7/6/2017	7:28:42 AM	14	12.96	23.4	56	742	
1421 DW NW CORNER TC.txt	7/6/2017	11:13:42 AM	0115249975	7/6/2017	7:28:42 AM	15	17.01	23.8	56	742	
1421 DW NW CORNER TC.txt	7/6/2017	11:28:42 AM	0115249975	7/6/2017	7:28:42 AM	16	35.51	24.1	56	742	
1421 DW NW CORNER TC.txt	7/6/2017	11:43:42 AM	0115249975	7/6/2017	7:28:42 AM	17	10.82	24	57	740	
1421 DW NW CORNER TC.txt	7/6/2017	11:58:42 AM	0115249975	7/6/2017	7:28:42 AM	18	19.25	23.8	59	740	
1421 DW NW CORNER TC.txt	7/6/2017	12:13:42 PM	0115249975	7/6/2017	7:28:42 AM	19	18.84	23.7	60	740	
1421 DW NW CORNER TC.txt	7/6/2017	12:28:42 PM	0115249975	7/6/2017	7:28:42 AM	20	16.74	23.7	60	740	
1421 DW NW CORNER TC.txt	7/6/2017	12:43:42 PM	0115249975	7/6/2017	7:28:42 AM	21	27.24	24	59	740	
1421 DW NW CORNER TC.txt	7/6/2017	12:58:42 PM	0115249975	7/6/2017	7:28:42 AM	22	32.72	24.1	59	740	
1421 DW NW CORNER TC.txt	7/6/2017	1:13:42 PM	0115249975	7/6/2017	7:28:42 AM	23	15.38	24.6	58	740	
1421 DW NW CORNER TC.txt	7/6/2017	1:28:42 PM	0115249975	7/6/2017	7:28:42 AM	24	14.44	25.2	56	740	
1421 DW NW CORNER TC.txt	7/6/2017	1:43:42 PM	0115249975	7/6/2017	7:28:42 AM	25	21.28	25.7	54	740	
1421 DW NW CORNER TC.txt	7/6/2017	1:58:42 PM	0115249975	7/6/2017	7:28:42 AM	26	39.92	25.7	54	740	
1421 DW NW CORNER TC.txt	7/6/2017	2:13:42 PM	0115249975	7/6/2017	7:28:42 AM	27	29.55	25.3	55	740	
1421 DW NW CORNER TC.txt	7/6/2017	2:28:42 PM	0115249975	7/6/2017	7:28:42 AM	28	21.07	25.2	56	740	
1421 DW NW CORNER TC.txt	7/6/2017	2:43:42 PM	0115249975	7/6/2017	7:28:42 AM	29	12.82	25.3	56	740	
1421 DW NW CORNER TC.txt	7/6/2017	2:58:42 PM	0115249975	7/6/2017	7:28:42 AM	30	29.3	25.4	56	740	
1421 DW NW CORNER TC.txt	7/6/2017	3:13:42 PM	0115249975	7/6/2017	7:28:42 AM	31	49.51	25.4	56	740	
1421 DW NW CORNER TC.txt	7/6/2017	3:28:42 PM	0115249975	7/6/2017	7:28:42 AM	32	13.51	25.5	56	740	
1421 DW NW CORNER TC.txt	7/6/2017	3:43:42 PM	0115249975	7/6/2017	7:28:42 AM	33	14.77	25.9	54	740	
1421 DW NW CORNER TC.txt	7/6/2017	3:58:42 PM	0115249975	7/6/2017	7:28:42 AM	34	36.75	26	54	740	
1421 DW NW CORNER TC.txt	7/6/2017	4:13:42 PM	0115249975	7/6/2017	7:28:42 AM	35	31.06	25.9	54	740	
1421 DW NW CORNER TC.txt	7/6/2017	4:28:42 PM	0115249975	7/6/2017	7:28:42 AM	36	17.81	25.7	55	740	
1422 DW NE FENCE SP.txt	7/6/2017	7:47:13 AM	0115249980	7/6/2017	7:32:13 AM	1	2.3	18.2	65	742	
1422 DW NE FENCE SP.txt	7/6/2017	8:02:13 AM	0115249980	7/6/2017	7:32:13 AM	2	2.35	19.8	62	742	
1422 DW NE FENCE SP.txt	7/6/2017	8:17:13 AM	0115249980	7/6/2017	7:32:13 AM	3	3.61	20.1	61	742	
1422 DW NE FENCE SP.txt	7/6/2017	8:32:13 AM	0115249980	7/6/2017	7:32:13 AM	4	12.51	20.1	62	742	
1422 DW NE FENCE SP.txt	7/6/2017	8:47:13 AM	0115249980	7/6/2017	7:32:13 AM	5	13.09	20.9	59	742	
1422 DW NE FENCE SP.txt	7/6/2017	9:02:13 AM	0115249980	7/6/2017	7:32:13 AM	6	9.98	21.7	57	742	
1422 DW NE FENCE SP.txt	7/6/2017	9:17:13 AM	0115249980	7/6/2017	7:32:13 AM	7	9.78	22.1	57	742	
1422 DW NE FENCE SP.txt	7/6/2017	9:32:13 AM	0115249980	7/6/2017	7:32:13 AM	8	16.59	22.4	57	742	
1422 DW NE FENCE SP.txt	7/6/2017	9:47:13 AM	0115249980	7/6/2017	7:32:13 AM	9	15.52	22.7	56	742	
1422 DW NE FENCE SP.txt	7/6/2017	10:02:13 AM	0115249980	7/6/2017	7:32:13 AM	10	2.12	22.8	57	742	
1422 DW NE FENCE SP.txt	7/6/2017	10:17:13 AM	0115249980	7/6/2017	7:32:13 AM	11	0.34	23.1	56	742	
1422 DW NE FENCE SP.txt	7/6/2017	10:32:13 AM	0115249980	7/6/2017	7:32:13 AM	12	1.25	23.7	55	742	
1422 DW NE FENCE SP.txt	7/6/2017	10:47:13 AM	0115249980	7/6/2017	7:32:13 AM	13	0.58	24.2	53	742	
1422 DW NE FENCE SP.txt	7/6/2017	11:02:13 AM	0115249980	7/6/2017	7:32:13 AM	14	0.35	24.6	53	742	
1422 DW NE FENCE SP.txt	7/6/2017	11:17:13 AM	0115249980	7/6/2017	7:32:13 AM	15	3.66	25	53	742	
1422 DW NE FENCE SP.txt	7/6/2017	11:32:13 AM	0115249980	7/6/2017	7:32:13 AM	16	22.33	25.4	53	742	
1422 DW NE FENCE SP.txt	7/6/2017	11:47:13 AM	0115249980	7/6/2017	7:32:13 AM	17	8.91	24.9	55	742	
1422 DW NE FENCE SP.txt	7/6/2017	12:02:13 PM	0115249980	7/6/2017	7:32:13 AM	18	13	24.1	57	742	
1422 DW NE FENCE SP.txt	7/6/2017	12:17:13 PM	0115249980	7/6/2017	7:32:13 AM	19	12.08	23.9	59	742	
1422 DW NE FENCE SP.txt	7/6/2017	12:32:13 PM	0115249980	7/6/2017	7:32:13 AM	20	6.77	24.5	57	742	
1422 DW NE FENCE SP.txt	7/6/2017	12:47:13 PM	0115249980	7/6/2017	7:32:13 AM	21	13.72	25.2	55	742	
1422 DW NE FENCE SP.txt	7/6/2017	1:02:13 PM	0115249980	7/6/2017	7:32:13 AM	22	17.29	25.1	56	742	
1422 DW NE FENCE SP.txt	7/6/2017	1:17:13 PM	0115249980	7/6/2017	7:32:13 AM	23	26.35	26.4	53	742	
1422 DW NE FENCE SP.txt	7/6/2017	1:32:13 PM	0115249980	7/6/2017	7:32:13 AM	24	25.09	27.7	49	742	
1422 DW NE FENCE SP.txt	7/6/2017	1:47:13 PM	0115249980	7/6/2017	7:32:13 AM	25	17.86	28.2	47	742	
1422 DW NE FENCE SP.txt	7/6/2017	2:02:13 PM	0115249980	7/6/2017	7:32:13 AM	26	22.84	27.4	49	742	
1422 DW NE FENCE SP.txt	7/6/2017	2:17:13 PM	0115249980	7/6/2017	7:32:13 AM	27	36.3	26.3	52	742	
1422 DW NE FENCE SP.txt	7/6/2017	2:32:13 PM	0115249980	7/6/2017	7:32:13 AM	28	27.8	26.1	54	740	
1422 DW NE FENCE SP.txt	7/6/2017	2:47:13 PM	0115249980	7/6/2017	7:32:13 AM	29	10.12	26.8	51	740	
1422 DW NE FENCE SP.txt	7/6/2017	3:02:13 PM	0115249980	7/6/2017	7:32:13 AM	30	9.68	26.6	51	740	
1422 DW NE FENCE SP.txt	7/6/2017	3:17:13 PM	0115249980	7/6/2017	7:32:13 AM	31	30.05	26.3	53	740	
1422 DW NE FENCE SP.txt	7/6/2017	3:32:13 PM	0115249980	7/6/2017	7:32:13 AM	32	10.31	27	52	740	
1422 DW NE FENCE SP.txt	7/6/2017	3:47:13 PM	0115249980	7/6/2017	7:32:13 AM	33	0.6	28.2	49	740	
1422 DW NE FENCE SP.txt	7/6/2017	4:02:13 PM	0115249980	7/6/2017	7:32:13 AM	34	4.8	28.5	47	740	
1422 DW NE FENCE SP.txt	7/6/2017	4:17:13 PM	0115249980	7/6/2017	7:32:13 AM	35	8.61	27.8	49	740	
1422 DW NE FENCE SP.txt	7/6/2017	4:32:13 PM	0115249980	7/6/2017	7:32:13 AM	36	28.84	27.1	51	740	
1429 DW CENTER FENCE TC.txt	7/6/2017	7:41:28 AM	0115250009	7/6/2017	7:26:28 AM	1	2.68	18.7	65	742	
1429 DW CENTER FENCE TC.txt	7/6/2017	7:56:28 AM	0115250009	7/6/2017	7:26:28 AM	2	1.07	19.6	64	742	
1429 DW CENTER FENCE TC.txt	7/6/2017	8:11:28 AM	0115250009	7/6/2017	7:26:28 AM	3	0.86	20.2	61	742	
1429 DW CENTER FENCE TC.txt	7/6/2017	8:26:28 AM	0115250009	7/6/2017	7:26:28 AM	4	0.95	20.2	62	742	
1429 DW CENTER FENCE TC.txt	7/6/2017	8:41:28 AM	0115250009	7/6/2017	7:26:28 AM	5	2.13	20.6	60	742	
1429 DW CENTER FENCE TC.txt	7/6/2017	8:56:28 AM	0115250009	7/6/2017	7:26:28 AM	6	0.06	21.2	58	742	
1429 DW CENTER FENCE TC.txt	7/6/2017	9:11:28 AM	0115250009	7/6/2017	7:26:28 AM	7	0.93	21.7	57	742	
1429 DW CENTER FENCE TC.txt	7/6/2017	9:26:28 AM	0115250009	7/6/2017	7:26:28 AM	8	0.29	22.2	58	742	
1429 DW CENTER FENCE TC.txt	7/6/2017	9:41:28 AM	0115250009	7/6/2017	7:26:28 AM	9	0.86	22.9	57	742	
1429 DW CENTER FENCE TC.txt	7/6/2017	9:56:28 AM	0115250009	7/6/2017	7:26:28 AM	10	-0.02	23	57	742	
1429 DW CENTER FENCE TC.txt	7/6/2017	10:11:28 AM	0115250009	7/6/2017	7:26:28 AM	11	4.37	23.2	57	742	
1429 DW CENTER FENCE TC.txt	7/6/2017	10:26:28 AM	0115250009	7/6/2017	7:26:28 AM	12	3.97	23.5	56	742	
1429 DW CENTER FENCE TC.txt	7/6/2017	10:41:28 AM	0115250009	7/6/2017	7:26:28 AM	13	6.46	23.9	56	742	
1429 DW CENTER FENCE TC.txt	7/6/2017	10:56:28 AM	0115250009	7/6/2017	7:26:28 AM	14	7.04	24.1	56	742	
1429 DW CENTER FENCE TC.txt	7/6/2017	11:11:28 AM	0115250009	7/6/2017	7:26:28 AM	15	7.76	24.5	56	742	
1429 DW CENTER FENCE TC.txt	7/6/2017	11:26:28 AM	0115250009	7/6/2017	7:26:28 AM	16	7.19	24.8	55	742	
1429 DW CENTER FENCE TC.txt	7/6/2017	11:41:28 AM	0115250009	7/6/2017	7:26:28 AM	17	12.87	24.3	58	742	
1429 DW CENTER FENCE TC.txt	7/6/2017	11:56:28 AM	0115250009	7/6/2017	7:26:28 AM	18	14.45	23.8	60	742	
1429 DW CENTER FENCE TC.txt	7/6/2017	12:11:28 PM	0115250009	7/6/2017	7:26:28 AM	19	12.4	23.5	62	742	
1429 DW CENTER FENCE TC.txt	7/6/2017	12:26:28 PM	0115250009	7/6/2017	7:26:28 AM	20	11.98	23.8	61	742	
1429 DW CENTER FENCE TC.txt	7/6/2017	12:41:28 PM	0115250009	7/6/2017	7:26:28 AM	21	11.74	24.1	60	742	
1429 DW CENTER FENCE TC.txt	7/6/2017	12:56:28 PM	0115250009	7/6/2017	7:26:28 AM	22	10.67	24.2	61	742	
1429 DW CENTER FENCE TC.txt	7/6/2017	1:11:28 PM	0115250009	7/6/2017	7:26:28 AM	23	10.84	25	58	742	
1429 DW CENTER FENCE TC.txt	7/6/2017	1:26:28 PM	0115250009	7/6/2017	7:26:28 AM	24	9.75	26.2	55	742	
1429 DW CENTER FENCE TC.txt	7/6/2017	1:41:28 PM	0115250009	7/6/2017	7:26:28 AM	25	10.59	26.8	53	742	
1429 DW CENTER FENCE TC.txt	7/6/2017	1:56:28 PM	0115250009	7/6/2017	7:26:28 AM	26	11.6	26.6	53	742	
1429 DW CENTER FENCE TC.txt	7/6/2017	2:11:28 PM	0115250009	7/6/2017	7:26:28 AM	27	21.87	25.6	56	742	
1429 DW CENTER FENCE TC.txt	7/6/2017	2:26:28 PM	0115250009	7/6/2017	7:26:28 AM	28	12.33	25.3	58	742	
1429 DW CENTER FENCE TC.txt	7/6/2017	2:41:28 PM	0115250009	7/6/2017	7:26:28 AM	29	10.11	25.9	56	742	
1429 DW CENTER FENCE TC.txt	7/6/2017	2:56:28 PM	0115250009	7/6/2017	7:26:28 AM	30	22.1	25.8	56	742	
1429 DW CENTER FENCE TC.txt	7/6/2017	3:11:28 PM	0115250009	7/6/2017	7:26:28 AM	31	8.87	25.7	56	740	
1429 DW CENTER FENCE TC.txt	7/6/2017	3:26:28 PM	0115250009	7/6/2017	7:26:28 AM	32	11.24	25.8	56	740	
1429 DW CENTER FENCE TC.txt	7/6/2017	3:41:28 PM	0115250009	7/6/2017	7:26:28 AM	33	5.22	26.6	54	740	

Summary of CAMP Monitoring

Beech and Bonaparte

Former Sperry Remington Site - North Portion
Elmira, New York

Unit Location	Record Date	Record Time	Unit Serial Number	Start Date	Start Time	Record #	Dust Concentration in µg/m^3	Temp	RHumidity	AtmoPressure in mm/Hg	Notes
1429 DW CENTER FENCE TC.txt	7/6/2017	3:56:28 PM	0115250009	7/6/2017	7:26:28 AM	34	13.17	26.7	54	740	
1429 DW CENTER FENCE TC.txt	7/6/2017	4:11:28 PM	0115250009	7/6/2017	7:26:28 AM	35	10.09	26.5	54	740	
1429 DW CENTER FENCE TC.txt	7/6/2017	4:26:28 PM	0115250009	7/6/2017	7:26:28 AM	36	6.15	25.9	56	740	
1860 DW NW FENCE SP.txt	7/6/2017	7:49:07 AM	0115250203	7/6/2017	7:34:07 AM	1	1.28	19	67	742	
1860 DW NW FENCE SP.txt	7/6/2017	8:04:07 AM	0115250203	7/6/2017	7:34:07 AM	2	7.64	20.2	66	742	
1860 DW NW FENCE SP.txt	7/6/2017	8:19:07 AM	0115250203	7/6/2017	7:34:07 AM	3	36.57	20.7	64	742	
1860 DW NW FENCE SP.txt	7/6/2017	8:34:07 AM	0115250203	7/6/2017	7:34:07 AM	4	25.57	21	64	742	
1860 DW NW FENCE SP.txt	7/6/2017	8:49:07 AM	0115250203	7/6/2017	7:34:07 AM	5	27.73	21.7	62	742	
1860 DW NW FENCE SP.txt	7/6/2017	9:04:07 AM	0115250203	7/6/2017	7:34:07 AM	6	14.28	22.6	59	742	
1860 DW NW FENCE SP.txt	7/6/2017	9:19:07 AM	0115250203	7/6/2017	7:34:07 AM	7	8.95	23.3	58	742	
1860 DW NW FENCE SP.txt	7/6/2017	9:34:07 AM	0115250203	7/6/2017	7:34:07 AM	8	20.19	24.1	57	742	
1860 DW NW FENCE SP.txt	7/6/2017	9:49:07 AM	0115250203	7/6/2017	7:34:07 AM	9	9.34	24.6	55	742	
1860 DW NW FENCE SP.txt	7/6/2017	10:04:07 AM	0115250203	7/6/2017	7:34:07 AM	10	7.8	25	54	742	
1860 DW NW FENCE SP.txt	7/6/2017	10:19:07 AM	0115250203	7/6/2017	7:34:07 AM	11	14.06	25.3	53	742	
1860 DW NW FENCE SP.txt	7/6/2017	10:34:07 AM	0115250203	7/6/2017	7:34:07 AM	12	34.59	25.7	54	742	
1860 DW NW FENCE SP.txt	7/6/2017	10:49:07 AM	0115250203	7/6/2017	7:34:07 AM	13	5.56	25.9	53	742	
1860 DW NW FENCE SP.txt	7/6/2017	11:04:07 AM	0115250203	7/6/2017	7:34:07 AM	14	1.23	26.1	53	742	
1860 DW NW FENCE SP.txt	7/6/2017	11:19:07 AM	0115250203	7/6/2017	7:34:07 AM	15	14.43	26.6	52	742	
1860 DW NW FENCE SP.txt	7/6/2017	11:34:07 AM	0115250203	7/6/2017	7:34:07 AM	16	53.04	26.3	54	742	
1860 DW NW FENCE SP.txt	7/6/2017	11:49:07 AM	0115250203	7/6/2017	7:34:07 AM	17	16.98	25.4	57	742	
1860 DW NW FENCE SP.txt	7/6/2017	12:04:07 PM	0115250203	7/6/2017	7:34:07 AM	18	27.7	24.6	60	740	
1860 DW NW FENCE SP.txt	7/6/2017	12:19:07 PM	0115250203	7/6/2017	7:34:07 AM	19	17.15	24.6	61	740	
1860 DW NW FENCE SP.txt	7/6/2017	12:34:07 PM	0115250203	7/6/2017	7:34:07 AM	20	6.37	25.3	59	740	
1860 DW NW FENCE SP.txt	7/6/2017	12:49:07 PM	0115250203	7/6/2017	7:34:07 AM	21	15.13	25.3	59	740	
1860 DW NW FENCE SP.txt	7/6/2017	1:04:07 PM	0115250203	7/6/2017	7:34:07 AM	22	71.37	25.4	58	740	
1860 DW NW FENCE SP.txt	7/6/2017	1:19:07 PM	0115250203	7/6/2017	7:34:07 AM	23	66.99	26.4	56	740	
1860 DW NW FENCE SP.txt	7/6/2017	1:34:07 PM	0115250203	7/6/2017	7:34:07 AM	24	71.88	27.1	53	740	
1860 DW NW FENCE SP.txt	7/6/2017	1:49:07 PM	0115250203	7/6/2017	7:34:07 AM	25	19.56	27	53	740	
1860 DW NW FENCE SP.txt	7/6/2017	2:04:07 PM	0115250203	7/6/2017	7:34:07 AM	26	14.86	26.3	56	740	
1860 DW NW FENCE SP.txt	7/6/2017	2:19:07 PM	0115250203	7/6/2017	7:34:07 AM	27	41.26	25.8	59	740	
1860 DW NW FENCE SP.txt	7/6/2017	2:34:07 PM	0115250203	7/6/2017	7:34:07 AM	28	62.52	26	57	740	
1860 DW NW FENCE SP.txt	7/6/2017	2:49:07 PM	0115250203	7/6/2017	7:34:07 AM	29	59.01	26.4	56	740	
1860 DW NW FENCE SP.txt	7/6/2017	3:04:07 PM	0115250203	7/6/2017	7:34:07 AM	30	50.4	26	56	740	
1860 DW NW FENCE SP.txt	7/6/2017	3:19:07 PM	0115250203	7/6/2017	7:34:07 AM	31	29.1	25.8	57	740	
1860 DW NW FENCE SP.txt	7/6/2017	3:34:07 PM	0115250203	7/6/2017	7:34:07 AM	32	14.7	26.7	55	740	
1860 DW NW FENCE SP.txt	7/6/2017	3:49:07 PM	0115250203	7/6/2017	7:34:07 AM	33	5.76	27.2	53	740	
1860 DW NW FENCE SP.txt	7/6/2017	4:04:07 PM	0115250203	7/6/2017	7:34:07 AM	34	28.58	27.1	54	740	
1860 DW NW FENCE SP.txt	7/6/2017	4:19:07 PM	0115250203	7/6/2017	7:34:07 AM	35	21.24	26.6	55	740	
1860 DW NW FENCE SP.txt	7/6/2017	4:34:07 PM	0115250203	7/6/2017	7:34:07 AM	36	57.72	26	57	740	
1936 DW NW CORNER SP.txt	7/6/2017	7:48:24 AM	0115250202	7/6/2017	7:33:24 AM	1	25.53	18.7	69	742	
1936 DW NW CORNER SP.txt	7/6/2017	8:03:24 AM	0115250202	7/6/2017	7:33:24 AM	2	3.88	20.1	67	742	
1936 DW NW CORNER SP.txt	7/6/2017	8:18:24 AM	0115250202	7/6/2017	7:33:24 AM	3	8.13	20.8	64	742	
1936 DW NW CORNER SP.txt	7/6/2017	8:33:24 AM	0115250202	7/6/2017	7:33:24 AM	4	5.46	21	64	742	
1936 DW NW CORNER SP.txt	7/6/2017	8:48:24 AM	0115250202	7/6/2017	7:33:24 AM	5	12.37	21.8	62	742	
1936 DW NW CORNER SP.txt	7/6/2017	9:03:24 AM	0115250202	7/6/2017	7:33:24 AM	6	2.42	22.5	60	742	
1936 DW NW CORNER SP.txt	7/6/2017	9:18:24 AM	0115250202	7/6/2017	7:33:24 AM	7	8.34	23.1	59	742	
1936 DW NW CORNER SP.txt	7/6/2017	9:33:24 AM	0115250202	7/6/2017	7:33:24 AM	8	9.29	23.7	58	742	
1936 DW NW CORNER SP.txt	7/6/2017	9:48:24 AM	0115250202	7/6/2017	7:33:24 AM	9	8.78	24.5	57	742	
1936 DW NW CORNER SP.txt	7/6/2017	10:03:24 AM	0115250202	7/6/2017	7:33:24 AM	10	4.17	25.1	55	742	
1936 DW NW CORNER SP.txt	7/6/2017	10:18:24 AM	0115250202	7/6/2017	7:33:24 AM	11	8.6	25	54	742	
1936 DW NW CORNER SP.txt	7/6/2017	10:33:24 AM	0115250202	7/6/2017	7:33:24 AM	12	9.26	24.9	55	742	
1936 DW NW CORNER SP.txt	7/6/2017	10:48:24 AM	0115250202	7/6/2017	7:33:24 AM	13	1.88	25.1	55	742	
1936 DW NW CORNER SP.txt	7/6/2017	11:03:24 AM	0115250202	7/6/2017	7:33:24 AM	14	1.72	25.5	55	742	
1936 DW NW CORNER SP.txt	7/6/2017	11:18:24 AM	0115250202	7/6/2017	7:33:24 AM	15	5.31	25.9	55	742	
1936 DW NW CORNER SP.txt	7/6/2017	11:33:24 AM	0115250202	7/6/2017	7:33:24 AM	16	8.35	25.6	56	742	
1936 DW NW CORNER SP.txt	7/6/2017	11:48:24 AM	0115250202	7/6/2017	7:33:24 AM	17	5.34	24.7	59	742	
1936 DW NW CORNER SP.txt	7/6/2017	12:03:24 PM	0115250202	7/6/2017	7:33:24 AM	18	10.35	23.8	62	742	
1936 DW NW CORNER SP.txt	7/6/2017	12:18:24 PM	0115250202	7/6/2017	7:33:24 AM	19	11.49	23.7	63	742	
1936 DW NW CORNER SP.txt	7/6/2017	12:33:24 PM	0115250202	7/6/2017	7:33:24 AM	20	7.35	24.5	61	742	
1936 DW NW CORNER SP.txt	7/6/2017	12:48:24 PM	0115250202	7/6/2017	7:33:24 AM	21	10.25	24.9	60	742	
1936 DW NW CORNER SP.txt	7/6/2017	1:03:24 PM	0115250202	7/6/2017	7:33:24 AM	22	11.11	25	60	742	
1936 DW NW CORNER SP.txt	7/6/2017	1:18:24 PM	0115250202	7/6/2017	7:33:24 AM	23	11.21	26.2	57	742	
1936 DW NW CORNER SP.txt	7/6/2017	1:33:24 PM	0115250202	7/6/2017	7:33:24 AM	24	10.34	27.2	54	742	
1936 DW NW CORNER SP.txt	7/6/2017	1:48:24 PM	0115250202	7/6/2017	7:33:24 AM	25	9.5	27	54	742	
1936 DW NW CORNER SP.txt	7/6/2017	2:03:24 PM	0115250202	7/6/2017	7:33:24 AM	26	20.91	26	57	742	
1936 DW NW CORNER SP.txt	7/6/2017	2:18:24 PM	0115250202	7/6/2017	7:33:24 AM	27	17.1	25.2	60	742	
1936 DW NW CORNER SP.txt	7/6/2017	2:33:24 PM	0115250202	7/6/2017	7:33:24 AM	28	11.08	25.4	60	742	
1936 DW NW CORNER SP.txt	7/6/2017	2:48:24 PM	0115250202	7/6/2017	7:33:24 AM	29	11.87	26.2	57	742	
1936 DW NW CORNER SP.txt	7/6/2017	3:03:24 PM	0115250202	7/6/2017	7:33:24 AM	30	11.51	25.8	57	742	
1936 DW NW CORNER SP.txt	7/6/2017	3:18:24 PM	0115250202	7/6/2017	7:33:24 AM	31	21.95	25.6	59	742	
1936 DW NW CORNER SP.txt	7/6/2017	3:33:24 PM	0115250202	7/6/2017	7:33:24 AM	32	9.73	26.5	58	742	
1936 DW NW CORNER SP.txt	7/6/2017	3:48:24 PM	0115250202	7/6/2017	7:33:24 AM	33	2.32	27.3	55	742	
1936 DW NW CORNER SP.txt	7/6/2017	4:03:24 PM	0115250202	7/6/2017	7:33:24 AM	34	2.47	27	55	740	
1936 DW NW CORNER SP.txt	7/6/2017	4:18:24 PM	0115250202	7/6/2017	7:33:24 AM	35	5.76	26.1	57	740	
1936 DW NW CORNER SP.txt	7/6/2017	4:33:24 PM	0115250202	7/6/2017	7:33:24 AM	36	9.91	25.5	59	740	
1954 UW TEE POST SP.txt	7/6/2017	7:54:51 AM	0115250211	7/6/2017	7:39:51 AM	1	1.53	20.2	62	742	
1954 UW TEE POST SP.txt	7/6/2017	8:09:51 AM	0115250211	7/6/2017	7:39:51 AM	2	1.01	20.8	62	742	
1954 UW TEE POST SP.txt	7/6/2017	8:24:51 AM	0115250211	7/6/2017	7:39:51 AM	3	1.35	20.8	62	742	
1954 UW TEE POST SP.txt	7/6/2017	8:39:51 AM	0115250211	7/6/2017	7:39:51 AM	4	2.59	20.9	62	742	
1954 UW TEE POST SP.txt	7/6/2017	8:54:51 AM	0115250211	7/6/2017	7:39:51 AM	5	1.58	21.4	61	742	
1954 UW TEE POST SP.txt	7/6/2017	9:09:51 AM	0115250211	7/6/2017	7:39:51 AM	6	1.62	22	60	742	
1954 UW TEE POST SP.txt	7/6/2017	9:24:51 AM	0115250211	7/6/2017	7:39:51 AM	7	13.43	22.4	58	742	
1954 UW TEE POST SP.txt	7/6/2017	9:39:51 AM	0115250211	7/6/2017	7:39:51 AM	8	4.04	22.8	58	742	
1954 UW TEE POST SP.txt	7/6/2017	9:54:51 AM	0115250211	7/6/2017	7:39:51 AM	9	5.53	23.2	58	742	
1954 UW TEE POST SP.txt	7/6/2017	10:09:51 AM	0115250211	7/6/2017	7:39:51 AM	10	2.43	23.6	57	742	
1954 UW TEE POST SP.txt	7/6/2017	10:24:51 AM	0115250211	7/6/2017	7:39:51 AM	11	2.39	24	55	742	
1954 UW TEE POST SP.txt	7/6/2017	10:39:51 AM	0115250211	7/6/2017	7:39:51 AM	12	2.45	24.2	55	742	
1954 UW TEE POST SP.txt	7/6/2017	10:54:51 AM	0115250211	7/6/2017	7:39:51 AM	13	2.87	24.3	55	742	
1954 UW TEE POST SP.txt	7/6/2017	11:09:51 AM	0115250211	7/6/2017	7:39:51 AM	14	3.17	24.6	56	742	
1954 UW TEE POST SP.txt	7/6/2017	11:24:51 AM	0115250211	7/6/2017	7:39:51 AM	15	3.54	25.1	56	742	
1954 UW TEE POST SP.txt	7/6/2017	11:39:51 AM	0115250211	7/6/2017	7:39:51 AM	16	4.36	24.9	57	740	
1954 UW TEE POST SP.txt	7/6/2017	11:54:51 AM	0115250211	7/6/2017	7:39:51 AM	17	6.02	24.2	59	740	
1954 UW TEE POST SP.txt	7/6/2017	12:09:51 PM	0115250211	7/6/2017	7:39:51 AM	18	7.85	23.6	61	740	
1954 UW TEE POST SP.txt	7/6/2017	12:24:51 PM	0115250211	7/6/2017	7:39:51 AM	19	8.74	23.8	61	740	
1954 UW TEE POST SP.txt	7/6/2017	12:39:51 PM	0115250211	7/6/2017	7:39:51 AM	20	9.24	24.7	60	740	
1954 UW TEE POST SP.txt	7/6/2017	12:54:51 PM	0115250211	7/6/2017	7:39:51 AM	21	9.01	24.8	59	740	
1954 UW TEE POST SP.txt	7/6/2017	1:09:51 PM	0115250211	7/6/2017	7:39:51 AM	22	8.33	25.5	57	740	
1954 UW TEE POST SP.txt	7/6/2017	1:24:51 PM	0115250211	7/6/2017	7:39:51 AM	23	8.04	26.7	54	740	
1954 UW TEE POST SP.txt	7/6/2017	1:39:51 PM	0115250211	7/6/2017	7:39:51 AM	24	8.02	27.1	52	740	
1954 UW TEE POST SP.txt	7/6/2017	1:54:51 PM	0115250211	7/6/2017	7:39:51 AM	25	7.86	26.9	54	740	
1954 UW TEE POST SP.txt	7/6/2017	2:09:51 PM	0115250211	7/6/2017	7:39:51 AM	26	8.29	26	56	740	
1954 UW TEE POST SP.txt	7/6/2017	2:24:51 PM	0115250211	7/6/2017	7:39:51 AM	27	7.97	25.3	57	740	
1954 UW TEE POST SP.txt	7/6/2017	2:39:51 PM	0115250211	7/6/2017	7:39:51 AM	28	8.08	25.9	57	740	
1954 UW TEE POST SP.txt	7/6/2017	2:54:51 PM	0115250211	7/6/2017	7:39:51 AM	29	7.28	26	56	740	
1954 UW TEE POST SP.txt	7/6/2017	3:09:51 PM	0115250211	7/6/2017	7:39:51 AM	30	6.92	26	56	740	
1954 UW TEE POST SP.txt	7/6/2017	3:24:51 PM	0115250211	7/6/2017	7:39:51 AM	31	6.64	26.3	56	740	
1954 UW TEE POST SP.txt	7/6/2017	3:39:51 PM	0115250211	7/6/2017	7:39:51 AM	32	4.35	27.2	54	740	
1954 UW TEE POST SP.txt	7/6/2017	3:54:51 PM	0115250211	7/6/2017	7:39:51 AM	33	3.34	27.8	52	740	
1954 UW TEE POST SP.txt	7/6/2017	4:09:51 PM	0115250211	7/6/2017	7:39:51 AM	34	3.09	27.6	52	740	
1954 UW TEE POST SP.txt	7/6/2017	4:24:51 PM	0115250211	7/6/2017	7:39:51 AM	35	2.61	26.8	54	740	
2980 DW NE CORNER SP.txt	7/6/2017	7:46:26 AM	CM15111014	7/6/2017	7:31:26 AM	1	0.9	20.4	64	742	
2980 DW NE CORNER SP.txt	7/6/2017	8:01:26 AM	CM15111014	7/6/2017	7:31:26 AM	2	0.49	21.7	62	742	
2980 DW NE CORNER SP.txt	7/6/2017	8:16:26 AM	CM15111014	7/6/2017	7:31:26 AM	3	2.52	22.2	60	742	
2980 DW NE CORNER SP.txt	7/6/2017	8:31:26 AM	CM15111014	7/6/2017	7:31:26 AM	4	4.01	22.2	60	742	
2980 DW NE CORNER SP.txt	7/6/2017	8:46:26 AM	CM15111014	7/6/2017	7:31:26 AM	5	6.55	22.7	59	742	
2980 DW NE CORNER SP.txt	7/6/2017	9:01:26 AM	CM15111014	7/6/2017	7:31:26 AM	6	0.65	23.4	58	742	
2980 DW NE CORNER SP.txt	7/6/2017	9:16:26 AM	CM15111014	7/6/2017	7:31:26 AM	7	4.94	23.9	56	742	
2980 DW NE CORNER SP.txt	7/6/2017	9:31:26 AM	CM15111014	7/6/2017	7:31:26 AM	8	2.52	24.3	56	742	
2980 DW NE CORNER SP.txt	7/6/2017	9:46:26 AM	CM15111014	7/6/2017	7:31:26 AM	9	0.46	24.7	56	742	
2980 DW NE CORNER SP.txt	7/6/2017	10:01:26 AM	CM15111014	7/6/2017	7:31:26 AM	10	2.65	25.1	55	742	
2980 DW NE CORNER SP.txt	7/6/2017	10:16:26 AM	CM15111014	7/6/2017	7:31:26 AM	11	-0.75	25.4	54	742	
2980 DW NE CORNER SP.txt	7/6/2017	10:31:26 AM	CM15111014	7/6/2017	7:31:26 AM	12	0.62	25.6	54	742	
2980 DW NE CORNER SP.txt	7/6/2017	10:46:26 AM	CM15111014	7/6/2017	7:31:26 AM	13	-0.01	26	53	742	
2980 DW NE CORNER SP.txt	7/6/2017	11:01:26 AM	CM15111014	7/6/2017	7:31:26 AM	14	-0.29	26.2	53	742	
2980 DW NE CORNER SP.txt	7/6/2017	11:16:26 AM	CM15111014	7/6/2017	7:31:26 AM	15	0.93	26.6	53	742	
2980 DW NE CORNER SP.txt	7/6/2017	11:31:26 AM	CM15111014	7/6/2017	7:31:26 AM	16	10.01	26.7	54	742	
2980 DW NE CORNER SP.txt	7/6/2017	11:46:26 AM	CM15111014	7/6/2017	7:31:26 AM	17	5.32	26.1	56	742	
2980 DW NE CORNER SP.txt	7/6/2017	12:01:26 PM	CM15111014	7/6/2017	7:31:26 AM	18	8.17	25.3	59	742	

Summary of CAMP Monitoring

Former Sperry Remington Site - North Portion
Elmira, New York

Unit Location	Record Date	Record Time	Unit Serial Number	Start Date	Start Time	Record #	Dust Concentration in µg/m^3	Temp	RHumidity	AtmoPressure in mm/Hg	Notes
2980 DW NE CORNER SP.txt	7/6/2017	12:16:26 PM	CM15111014	7/6/2017	7:31:26 AM	19	10.76	25.1	60	742	
2980 DW NE CORNER SP.txt	7/6/2017	12:31:26 PM	CM15111014	7/6/2017	7:31:26 AM	20	6	25.7	59	742	
2980 DW NE CORNER SP.txt	7/6/2017	12:46:26 PM	CM15111014	7/6/2017	7:31:26 AM	21	8.88	26.2	57	742	
2980 DW NE CORNER SP.txt	7/6/2017	1:01:26 PM	CM15111014	7/6/2017	7:31:26 AM	22	11.85	26.3	57	742	
2980 DW NE CORNER SP.txt	7/6/2017	1:16:26 PM	CM15111014	7/6/2017	7:31:26 AM	23	9.51	27.7	54	742	
2980 DW NE CORNER SP.txt	7/6/2017	1:31:26 PM	CM15111014	7/6/2017	7:31:26 AM	24	8.86	28.8	50	742	
2980 DW NE CORNER SP.txt	7/6/2017	1:46:26 PM	CM15111014	7/6/2017	7:31:26 AM	25	14.4	28.9	50	742	
2980 DW NE CORNER SP.txt	7/6/2017	2:01:26 PM	CM15111014	7/6/2017	7:31:26 AM	26	10.36	28	52	742	
2980 DW NE CORNER SP.txt	7/6/2017	2:16:26 PM	CM15111014	7/6/2017	7:31:26 AM	27	22.46	26.9	55	742	
2980 DW NE CORNER SP.txt	7/6/2017	2:31:26 PM	CM15111014	7/6/2017	7:31:26 AM	28	20	27	56	742	
2980 DW NE CORNER SP.txt	7/6/2017	2:46:26 PM	CM15111014	7/6/2017	7:31:26 AM	29	13.14	27.9	54	742	
2980 DW NE CORNER SP.txt	7/6/2017	3:01:26 PM	CM15111014	7/6/2017	7:31:26 AM	30	19.57	27.8	53	742	
2980 DW NE CORNER SP.txt	7/6/2017	3:16:26 PM	CM15111014	7/6/2017	7:31:26 AM	31	29.33	27.5	55	742	
2980 DW NE CORNER SP.txt	7/6/2017	3:31:26 PM	CM15111014	7/6/2017	7:31:26 AM	32	5.47	28.3	53	742	
2980 DW NE CORNER SP.txt	7/6/2017	3:46:26 PM	CM15111014	7/6/2017	7:31:26 AM	33	0.95	29.4	50	742	
2980 DW NE CORNER SP.txt	7/6/2017	4:01:26 PM	CM15111014	7/6/2017	7:31:26 AM	34	2.3	29.3	49	742	
2980 DW NE CORNER SP.txt	7/6/2017	4:16:26 PM	CM15111014	7/6/2017	7:31:26 AM	35	6.28	28.4	52	742	
2980 DW NE CORNER SP.txt	7/6/2017	4:31:26 PM	CM15111014	7/6/2017	7:31:26 AM	36	22.25	27.7	54	740	
801 DW NE CORNER TC.txt	7/6/2017	7:44:58 AM	0115249188	7/6/2017	7:29:58 AM	1	0.59	18.6	63	740	
801 DW NE CORNER TC.txt	7/6/2017	7:59:58 AM	0115249188	7/6/2017	7:29:58 AM	2	0.12	19.7	63	740	
801 DW NE CORNER TC.txt	7/6/2017	8:14:58 AM	0115249188	7/6/2017	7:29:58 AM	3	0.35	20.4	61	740	
801 DW NE CORNER TC.txt	7/6/2017	8:29:58 AM	0115249188	7/6/2017	7:29:58 AM	4	0.48	20.5	61	742	
801 DW NE CORNER TC.txt	7/6/2017	8:44:58 AM	0115249188	7/6/2017	7:29:58 AM	5	0.12	21	61	740	
801 DW NE CORNER TC.txt	7/6/2017	8:59:58 AM	0115249188	7/6/2017	7:29:58 AM	6	-0.37	21.8	58	742	
801 DW NE CORNER TC.txt	7/6/2017	9:14:58 AM	0115249188	7/6/2017	7:29:58 AM	7	-0.22	22.3	57	742	
801 DW NE CORNER TC.txt	7/6/2017	9:29:58 AM	0115249188	7/6/2017	7:29:58 AM	8	-0.17	22.8	56	740	
801 DW NE CORNER TC.txt	7/6/2017	9:44:58 AM	0115249188	7/6/2017	7:29:58 AM	9	-0.08	23.5	55	740	
801 DW NE CORNER TC.txt	7/6/2017	9:59:58 AM	0115249188	7/6/2017	7:29:58 AM	10	-0.1	23.8	54	740	
801 DW NE CORNER TC.txt	7/6/2017	10:14:58 AM	0115249188	7/6/2017	7:29:58 AM	11	0.36	24	53	740	
801 DW NE CORNER TC.txt	7/6/2017	10:29:58 AM	0115249188	7/6/2017	7:29:58 AM	12	2.75	24.1	52	740	
801 DW NE CORNER TC.txt	7/6/2017	10:44:58 AM	0115249188	7/6/2017	7:29:58 AM	13	2.08	24.6	52	740	
801 DW NE CORNER TC.txt	7/6/2017	10:59:58 AM	0115249188	7/6/2017	7:29:58 AM	14	11.59	24.7	52	740	
801 DW NE CORNER TC.txt	7/6/2017	11:14:58 AM	0115249188	7/6/2017	7:29:58 AM	15	2.85	25.2	52	740	
801 DW NE CORNER TC.txt	7/6/2017	11:29:58 AM	0115249188	7/6/2017	7:29:58 AM	16	3.25	25.6	51	740	
801 DW NE CORNER TC.txt	7/6/2017	11:44:58 AM	0115249188	7/6/2017	7:29:58 AM	17	5.35	24.9	54	740	
801 DW NE CORNER TC.txt	7/6/2017	11:59:58 AM	0115249188	7/6/2017	7:29:58 AM	18	17.58	24.3	57	740	
801 DW NE CORNER TC.txt	7/6/2017	12:14:58 PM	0115249188	7/6/2017	7:29:58 AM	19	13.76	23.9	59	740	
801 DW NE CORNER TC.txt	7/6/2017	12:29:58 PM	0115249188	7/6/2017	7:29:58 AM	20	7.46	24.2	59	740	
801 DW NE CORNER TC.txt	7/6/2017	12:44:58 PM	0115249188	7/6/2017	7:29:58 AM	21	7.34	24.6	57	740	
801 DW NE CORNER TC.txt	7/6/2017	12:59:58 PM	0115249188	7/6/2017	7:29:58 AM	22	7.1	24.6	57	740	
801 DW NE CORNER TC.txt	7/6/2017	1:14:58 PM	0115249188	7/6/2017	7:29:58 AM	23	6.31	25.2	55	740	
801 DW NE CORNER TC.txt	7/6/2017	1:29:58 PM	0115249188	7/6/2017	7:29:58 AM	24	6.21	26.3	52	740	
801 DW NE CORNER TC.txt	7/6/2017	1:44:58 PM	0115249188	7/6/2017	7:29:58 AM	25	10.28	26.9	50	740	
801 DW NE CORNER TC.txt	7/6/2017	1:59:58 PM	0115249188	7/6/2017	7:29:58 AM	26	7.69	26.5	51	740	
801 DW NE CORNER TC.txt	7/6/2017	2:14:58 PM	0115249188	7/6/2017	7:29:58 AM	27	9.13	25.6	54	740	
801 DW NE CORNER TC.txt	7/6/2017	2:29:58 PM	0115249188	7/6/2017	7:29:58 AM	28	8.74	25.2	56	740	
801 DW NE CORNER TC.txt	7/6/2017	2:44:58 PM	0115249188	7/6/2017	7:29:58 AM	29	7.61	25.8	54	740	
801 DW NE CORNER TC.txt	7/6/2017	2:59:58 PM	0115249188	7/6/2017	7:29:58 AM	30	9.03	25.7	54	740	
801 DW NE CORNER TC.txt	7/6/2017	3:14:58 PM	0115249188	7/6/2017	7:29:58 AM	31	14.37	25.6	55	740	
801 DW NE CORNER TC.txt	7/6/2017	3:29:58 PM	0115249188	7/6/2017	7:29:58 AM	32	7.16	25.8	54	740	
801 DW NE CORNER TC.txt	7/6/2017	3:44:58 PM	0115249188	7/6/2017	7:29:58 AM	33	3.68	26.7	52	740	
801 DW NE CORNER TC.txt	7/6/2017	3:59:58 PM	0115249188	7/6/2017	7:29:58 AM	34	2.96	26.7	51	740	
801 DW NE CORNER TC.txt	7/6/2017	4:14:58 PM	0115249188	7/6/2017	7:29:58 AM	35	6.95	26.5	52	738	
801 DW NE CORNER TC.txt	7/6/2017	4:29:58 PM	0115249188	7/6/2017	7:29:58 AM	36	4.82	25.9	54	738	
818 DW NW FENCE TC.txt	7/6/2017	7:41:17 AM	0115249311	7/6/2017	7:26:17 AM	1	2.16	20.2	63	742	
818 DW NW FENCE TC.txt	7/6/2017	7:56:17 AM	0115249311	7/6/2017	7:26:17 AM	2	-0.58	22	59	742	
818 DW NW FENCE TC.txt	7/6/2017	8:11:17 AM	0115249311	7/6/2017	7:26:17 AM	3	-0.33	22.5	57	742	
818 DW NW FENCE TC.txt	7/6/2017	8:26:17 AM	0115249311	7/6/2017	7:26:17 AM	4	-0.07	22.3	58	742	
818 DW NW FENCE TC.txt	7/6/2017	8:41:17 AM	0115249311	7/6/2017	7:26:17 AM	5	-0.57	22.6	59	742	
818 DW NW FENCE TC.txt	7/6/2017	8:56:17 AM	0115249311	7/6/2017	7:26:17 AM	6	-0.3	23.2	57	742	
818 DW NW FENCE TC.txt	7/6/2017	9:11:17 AM	0115249311	7/6/2017	7:26:17 AM	7	-0.53	23.8	56	742	
818 DW NW FENCE TC.txt	7/6/2017	9:26:17 AM	0115249311	7/6/2017	7:26:17 AM	8	-0.67	24.3	55	742	
818 DW NW FENCE TC.txt	7/6/2017	9:41:17 AM	0115249311	7/6/2017	7:26:17 AM	9	-1.06	25.2	53	742	
818 DW NW FENCE TC.txt	7/6/2017	9:56:17 AM	0115249311	7/6/2017	7:26:17 AM	10	-0.39	25.1	53	742	
818 DW NW FENCE TC.txt	7/6/2017	10:11:17 AM	0115249311	7/6/2017	7:26:17 AM	11	1	25.4	54	742	
818 DW NW FENCE TC.txt	7/6/2017	10:26:17 AM	0115249311	7/6/2017	7:26:17 AM	12	1.05	26	52	742	
818 DW NW FENCE TC.txt	7/6/2017	10:41:17 AM	0115249311	7/6/2017	7:26:17 AM	13	1.33	26.6	50	742	
818 DW NW FENCE TC.txt	7/6/2017	10:56:17 AM	0115249311	7/6/2017	7:26:17 AM	14	4.67	26.7	51	742	
818 DW NW FENCE TC.txt	7/6/2017	11:11:17 AM	0115249311	7/6/2017	7:26:17 AM	15	4.96	27.3	51	742	
818 DW NW FENCE TC.txt	7/6/2017	11:26:17 AM	0115249311	7/6/2017	7:26:17 AM	16	2.39	27.7	50	742	
818 DW NW FENCE TC.txt	7/6/2017	11:41:17 AM	0115249311	7/6/2017	7:26:17 AM	17	3.99	27.3	52	742	
818 DW NW FENCE TC.txt	7/6/2017	11:56:17 AM	0115249311	7/6/2017	7:26:17 AM	18	5.76	26.8	54	742	
818 DW NW FENCE TC.txt	7/6/2017	12:11:17 PM	0115249311	7/6/2017	7:26:17 AM	19	6.49	26.5	56	742	
818 DW NW FENCE TC.txt	7/6/2017	12:26:17 PM	0115249311	7/6/2017	7:26:17 AM	20	10.23	26.9	55	742	
818 DW NW FENCE TC.txt	7/6/2017	12:41:17 PM	0115249311	7/6/2017	7:26:17 AM	21	4.44	27.4	53	742	
818 DW NW FENCE TC.txt	7/6/2017	12:56:17 PM	0115249311	7/6/2017	7:26:17 AM	22	7.71	27.5	53	742	
818 DW NW FENCE TC.txt	7/6/2017	1:11:17 PM	0115249311	7/6/2017	7:26:17 AM	23	7.45	28.9	49	742	
818 DW NW FENCE TC.txt	7/6/2017	1:26:17 PM	0115249311	7/6/2017	7:26:17 AM	24	4.49	30.4	45	742	
818 DW NW FENCE TC.txt	7/6/2017	1:41:17 PM	0115249311	7/6/2017	7:26:17 AM	25	8.98	31.2	44	742	
818 DW NW FENCE TC.txt	7/6/2017	1:56:17 PM	0115249311	7/6/2017	7:26:17 AM	26	10.93	31	44	742	
818 DW NW FENCE TC.txt	7/6/2017	2:11:17 PM	0115249311	7/6/2017	7:26:17 AM	27	6.02	29.7	45	742	
818 DW NW FENCE TC.txt	7/6/2017	2:26:17 PM	0115249311	7/6/2017	7:26:17 AM	28	7.57	29	49	742	
818 DW NW FENCE TC.txt	7/6/2017	2:41:17 PM	0115249311	7/6/2017	7:26:17 AM	29	5.96	29.4	46	742	
818 DW NW FENCE TC.txt	7/6/2017	2:56:17 PM	0115249311	7/6/2017	7:26:17 AM	30	10.08	29.5	47	742	
818 DW NW FENCE TC.txt	7/6/2017	3:11:17 PM	0115249311	7/6/2017	7:26:17 AM	31	3.28	29.6	46	742	
818 DW NW FENCE TC.txt	7/6/2017	3:26:17 PM	0115249311	7/6/2017	7:26:17 AM	32	5.03	30	46	742	
818 DW NW FENCE TC.txt	7/6/2017	3:41:17 PM	0115249311	7/6/2017	7:26:17 AM	33	1.22	31.1	44	742	
818 DW NW FENCE TC.txt	7/6/2017	3:56:17 PM	0115249311	7/6/2017	7:26:17 AM	34	-0.19	31.4	44	740	
818 DW NW FENCE TC.txt	7/6/2017	4:11:17 PM	0115249311	7/6/2017	7:26:17 AM	35	-0.22	31.2	44	740	
818 DW NW FENCE TC.txt	7/6/2017	4:26:17 PM	0115249311	7/6/2017	7:26:17 AM	36	3.4	30.4	45	740	
1421 DW NW CORNER TC.txt	7/7/2017	8:00:46 AM	0115249975	7/7/2017	7:45:46 AM	1	-0.04	20	80	734	
1421 DW NW CORNER TC.txt	7/7/2017	8:15:46 AM	0115249975	7/7/2017	7:45:46 AM	2	-2.24	21.4	76	736	
1421 DW NW CORNER TC.txt	7/7/2017	8:30:46 AM	0115249975	7/7/2017	7:45:46 AM	3	-4.34	23.1	69	736	
1421 DW NW CORNER TC.txt	7/7/2017	8:45:46 AM	0115249975	7/7/2017	7:45:46 AM	4	-9.67	24.9	63	736	
1421 DW NW CORNER TC.txt	7/7/2017	9:00:46 AM	0115249975	7/7/2017	7:45:46 AM	5	-9.66	25.6	60	736	
1421 DW NW CORNER TC.txt	7/7/2017	9:15:46 AM	0115249975	7/7/2017	7:45:46 AM	6	-13.57	25.9	59	736	
1421 DW NW CORNER TC.txt	7/7/2017	9:30:46 AM	0115249975	7/7/2017	7:45:46 AM	7	-10.01	25.8	59	736	
1421 DW NW CORNER TC.txt	7/7/2017	9:45:46 AM	0115249975	7/7/2017	7:45:46 AM	8	-15.17	26.2	58	734	
1421 DW NW CORNER TC.txt	7/7/2017	10:00:46 AM	0115249975	7/7/2017	7:45:46 AM	9	-0.99	26.7	57	734	
1421 DW NW CORNER TC.txt	7/7/2017	10:15:46 AM	0115249975	7/7/2017	7:45:46 AM	10	-15.24	27	56	734	
1421 DW NW CORNER TC.txt	7/7/2017	10:30:46 AM	0115249975	7/7/2017	7:45:46 AM	11	-10.38	27.4	55	734	
1421 DW NW CORNER TC.txt	7/7/2017	10:45:46 AM	0115249975	7/7/2017	7:45:46 AM	12	-15.92	27.7	55	734	
1421 DW NW CORNER TC.txt	7/7/2017	11:00:46 AM	0115249975	7/7/2017	7:45:46 AM	13	-15.83	28.3	49	734	
1421 DW NW CORNER TC.txt	7/7/2017	11:15:46 AM	0115249975	7/7/2017	7:45:46 AM	14	-10.7	29	47	734	
1421 DW NW CORNER TC.txt	7/7/2017	11:30:46 AM	0115249975	7/7/2017	7:45:46 AM	15	-21.56	29.8	44	734	
1421 DW NW CORNER TC.txt	7/7/2017	11:45:46 AM	0115249975	7/7/2017	7:45:46 AM	16	-23.24	30.4	39	734	
1421 DW NW CORNER TC.txt	7/7/2017	12:00:46 PM	0115249975	7/7/2017	7:45:46 AM	17	-24.87	30.7	32	734	
1421 DW NW CORNER TC.txt	7/7/2017	12:15:46 PM	0115249975	7/7/2017	7:45:46 AM	18	-25.66	31.2	32	734	
1421 DW NW CORNER TC.txt	7/7/2017	12:30:46 PM	0115249975	7/7/2017	7:45:46 AM	19	-20.67	31.6	31	734	
1421 DW NW CORNER TC.txt	7/7/2017	12:45:46 PM	0115249975	7/7/2017	7:45:46 AM	20	-23.59	31.9	31	734	
1421 DW NW CORNER TC.txt	7/7/2017	1:00:46 PM	0115249975	7/7/2017	7:45:46 AM	21	-23.86	32.6	34	734	
1421 DW NW CORNER TC.txt	7/7/2017	1:15:46 PM	0115249975	7/7/2017	7:45:46 AM	22	-23.2	33.1	34	734	
1422 DW NE FENCE SP.txt	7/7/2017	7:44:42 AM	0115249980	7/7/2017	7:29:42 AM	1	-1.97	17.7	87	736	
1422 DW NE FENCE SP.txt	7/7/2017	7:59:42 AM	0115249980	7/7/2017	7:29:42 AM	2	-2.59	18.3	86	736	
1422 DW NE FENCE SP.txt	7/7/2017	8:14:42 AM	0115249980	7/7/2017	7:29:42 AM	3	-2.97	18.9	85	736	
1422 DW NE FENCE SP.txt	7/7/2017	8:29:42 AM	0115249980	7/7/2017	7:29:42 AM	4	-5.43	19.6	83	736	
1422 DW NE FENCE SP.txt	7/7/2017	8:44:42 AM	0115249980	7/7/2017	7:29:42 AM	5	-8.51	20.2	80	736	
1422 DW NE FENCE SP.txt	7/7/2017	8:59:42 AM	0115249980	7/7/2017	7:29:42 AM	6	-7.14	20.6	78	736	
1422 DW NE FENCE SP.txt	7/7/2017	9:14:42 AM	0115249980	7/7/2017	7:29:42 AM	7	-5.08	21.1	77	736	
1422 DW NE FENCE SP.txt	7/7/2017	9:29:42 AM	0115249980	7/7/2017	7:29:42 AM	8	2.78	21.9	74	736	
1422 DW NE FENCE SP.txt	7/7/2017	9:44:42 AM	0115249980	7/7/2017	7:29:42 AM	9	-8.62	22.5	71	736	
1422 DW NE FENCE SP.txt	7/7/2017	9:59:42 AM	0115249980	7/7/2017	7:29:42 AM	10	-17.2	22.9	71	736	
1422 DW NE FENCE SP.txt	7/7/2017	10:14:42 AM	0115249980	7/7/2017	7:29:42 AM	11	-16.57	23.5	68	736	
1422 DW NE FENCE SP.txt	7/7/2017	10:29:42 AM	0115249980	7/7/2017	7:29:42 AM	12	-16.5	23.8	68	736	
1422 DW NE FENCE SP.txt	7/7/2017	10:44:42 AM	0115249980	7/7/2017	7:29:42 AM	13	-4.89	24.1	65	736	

Summary of CAMP Monitoring

Beech and Bonaparte

Former Sperry Remington Site - North Portion
Elmira, New York

Unit Location	Record Date	Record Time	Unit Serial Number	Start Date	Start Time	Record #	Dust Concentration in µg/m^3	Temp	RHumidity	AtmoPressure in mm/Hg	Notes
1422 DW NE FENCE SP.txt	7/7/2017	10:59:42 AM	0115249980	7/7/2017	7:29:42 AM	14	-14.28	24.4	63	736	
1422 DW NE FENCE SP.txt	7/7/2017	11:14:42 AM	0115249980	7/7/2017	7:29:42 AM	15	8.82	24.8	55	736	
1422 DW NE FENCE SP.txt	7/7/2017	11:29:42 AM	0115249980	7/7/2017	7:29:42 AM	16	-13.71	25.4	53	736	
1422 DW NE FENCE SP.txt	7/7/2017	11:44:42 AM	0115249980	7/7/2017	7:29:42 AM	17	-16.54	25.9	49	736	
1422 DW NE FENCE SP.txt	7/7/2017	11:59:42 AM	0115249980	7/7/2017	7:29:42 AM	18	4.7	26.3	45	736	
1422 DW NE FENCE SP.txt	7/7/2017	12:14:42 PM	0115249980	7/7/2017	7:29:42 AM	19	25.64	26.8	43	736	
1422 DW NE FENCE SP.txt	7/7/2017	12:29:42 PM	0115249980	7/7/2017	7:29:42 AM	20	-25.79	27.1	42	736	
1422 DW NE FENCE SP.txt	7/7/2017	12:44:42 PM	0115249980	7/7/2017	7:29:42 AM	21	-24.85	27.5	42	736	
1422 DW NE FENCE SP.txt	7/7/2017	12:59:42 PM	0115249980	7/7/2017	7:29:42 AM	22	-26.58	28	41	734	
1422 DW NE FENCE SP.txt	7/7/2017	1:14:42 PM	0115249980	7/7/2017	7:29:42 AM	23	0.54	28.5	40	734	
1422 DW NE FENCE SP.txt	7/7/2017	1:29:42 PM	0115249980	7/7/2017	7:29:42 AM	24	-7.68	28.7	40	734	
1429 DW CENTER FENCE TC.txt	7/7/2017	8:11:14 AM	0115250009	7/7/2017	7:56:14 AM	1	-6.65	21.4	74	736	
1429 DW CENTER FENCE TC.txt	7/7/2017	8:26:14 AM	0115250009	7/7/2017	7:56:14 AM	2	-5.33	23.1	70	736	
1429 DW CENTER FENCE TC.txt	7/7/2017	8:41:14 AM	0115250009	7/7/2017	7:56:14 AM	3	-9.76	24.7	66	736	
1429 DW CENTER FENCE TC.txt	7/7/2017	8:56:14 AM	0115250009	7/7/2017	7:56:14 AM	4	-14.87	25.9	61	736	
1429 DW CENTER FENCE TC.txt	7/7/2017	9:11:14 AM	0115250009	7/7/2017	7:56:14 AM	5	-13.87	26.9	58	736	
1429 DW CENTER FENCE TC.txt	7/7/2017	9:26:14 AM	0115250009	7/7/2017	7:56:14 AM	6	-17.11	26.8	58	736	
1429 DW CENTER FENCE TC.txt	7/7/2017	9:41:14 AM	0115250009	7/7/2017	7:56:14 AM	7	-19.15	27.9	56	736	
1429 DW CENTER FENCE TC.txt	7/7/2017	9:56:14 AM	0115250009	7/7/2017	7:56:14 AM	8	-20.27	29.2	52	736	
1429 DW CENTER FENCE TC.txt	7/7/2017	10:11:14 AM	0115250009	7/7/2017	7:56:14 AM	9	-18.28	30	50	736	
1429 DW CENTER FENCE TC.txt	7/7/2017	10:26:14 AM	0115250009	7/7/2017	7:56:14 AM	10	-18.04	30.5	48	736	
1429 DW CENTER FENCE TC.txt	7/7/2017	10:41:14 AM	0115250009	7/7/2017	7:56:14 AM	11	-21.09	31	47	736	
1429 DW CENTER FENCE TC.txt	7/7/2017	10:56:14 AM	0115250009	7/7/2017	7:56:14 AM	12	-19.47	32.5	42	736	
1429 DW CENTER FENCE TC.txt	7/7/2017	11:11:14 AM	0115250009	7/7/2017	7:56:14 AM	13	-15.41	32.9	38	736	
1429 DW CENTER FENCE TC.txt	7/7/2017	11:26:14 AM	0115250009	7/7/2017	7:56:14 AM	14	29.61	33.1	38	736	
1429 DW CENTER FENCE TC.txt	7/7/2017	11:41:14 AM	0115250009	7/7/2017	7:56:14 AM	15	-19.85	34.5	35	736	
1429 DW CENTER FENCE TC.txt	7/7/2017	11:56:14 AM	0115250009	7/7/2017	7:56:14 AM	16	-22.85	35.8	30	736	
1429 DW CENTER FENCE TC.txt	7/7/2017	12:11:14 PM	0115250009	7/7/2017	7:56:14 AM	17	-19.91	36.9	28	736	
1429 DW CENTER FENCE TC.txt	7/7/2017	12:26:14 PM	0115250009	7/7/2017	7:56:14 AM	18	-24.95	37.6	26	736	
1429 DW CENTER FENCE TC.txt	7/7/2017	12:41:14 PM	0115250009	7/7/2017	7:56:14 AM	19	-24.79	37.5	27	736	
1429 DW CENTER FENCE TC.txt	7/7/2017	12:56:14 PM	0115250009	7/7/2017	7:56:14 AM	20	-22.97	38.4	27	736	
1429 DW CENTER FENCE TC.txt	7/7/2017	1:11:14 PM	0115250009	7/7/2017	7:56:14 AM	21	-24.79	39.7	25	736	
1429 DW CENTER FENCE TC.txt	7/7/2017	1:26:14 PM	0115250009	7/7/2017	7:56:14 AM	22	-20.06	40.3	24	734	
1860 DW NW FENCE SP.txt	7/7/2017	7:41:35 AM	0115250203	7/7/2017	7:26:35 AM	1	-1.12	18.5	89	736	
1860 DW NW FENCE SP.txt	7/7/2017	7:56:35 AM	0115250203	7/7/2017	7:26:35 AM	2	-7.26	21	81	736	
1860 DW NW FENCE SP.txt	7/7/2017	8:11:35 AM	0115250203	7/7/2017	7:26:35 AM	3	-11.47	23.8	72	736	
1860 DW NW FENCE SP.txt	7/7/2017	8:26:35 AM	0115250203	7/7/2017	7:26:35 AM	4	-16.88	27.5	58	736	
1860 DW NW FENCE SP.txt	7/7/2017	8:41:35 AM	0115250203	7/7/2017	7:26:35 AM	5	-19.67	30.3	50	736	
1860 DW NW FENCE SP.txt	7/7/2017	8:56:35 AM	0115250203	7/7/2017	7:26:35 AM	6	-20.77	31.5	47	736	
1860 DW NW FENCE SP.txt	7/7/2017	9:11:35 AM	0115250203	7/7/2017	7:26:35 AM	7	-10.51	33.9	42	736	
1860 DW NW FENCE SP.txt	7/7/2017	9:26:35 AM	0115250203	7/7/2017	7:26:35 AM	8	-15.57	35.7	38	736	
1860 DW NW FENCE SP.txt	7/7/2017	9:41:35 AM	0115250203	7/7/2017	7:26:35 AM	9	-17.69	35.4	38	736	
1860 DW NW FENCE SP.txt	7/7/2017	9:56:35 AM	0115250203	7/7/2017	7:26:35 AM	10	-21.84	36.1	37	736	
1860 DW NW FENCE SP.txt	7/7/2017	10:11:35 AM	0115250203	7/7/2017	7:26:35 AM	11	-23.62	34.9	39	736	
1860 DW NW FENCE SP.txt	7/7/2017	10:26:35 AM	0115250203	7/7/2017	7:26:35 AM	12	-12.27	35.5	38	736	
1860 DW NW FENCE SP.txt	7/7/2017	10:41:35 AM	0115250203	7/7/2017	7:26:35 AM	13	-23	36.1	37	736	
1860 DW NW FENCE SP.txt	7/7/2017	10:56:35 AM	0115250203	7/7/2017	7:26:35 AM	14	-21.91	37	35	736	
1860 DW NW FENCE SP.txt	7/7/2017	11:11:35 AM	0115250203	7/7/2017	7:26:35 AM	15	-24.71	37.4	31	736	
1860 DW NW FENCE SP.txt	7/7/2017	11:26:35 AM	0115250203	7/7/2017	7:26:35 AM	16	-26.24	39.5	28	734	
1860 DW NW FENCE SP.txt	7/7/2017	11:41:35 AM	0115250203	7/7/2017	7:26:35 AM	17	-26.59	40.6	25	734	
1860 DW NW FENCE SP.txt	7/7/2017	11:56:35 AM	0115250203	7/7/2017	7:26:35 AM	18	-26.36	40.6	23	734	
1860 DW NW FENCE SP.txt	7/7/2017	12:11:35 PM	0115250203	7/7/2017	7:26:35 AM	19	-19.85	41.1	23	734	
1860 DW NW FENCE SP.txt	7/7/2017	12:26:35 PM	0115250203	7/7/2017	7:26:35 AM	20	-27.22	40.6	23	734	
1860 DW NW FENCE SP.txt	7/7/2017	12:41:35 PM	0115250203	7/7/2017	7:26:35 AM	21	-25.82	40.6	23	734	
1860 DW NW FENCE SP.txt	7/7/2017	12:56:35 PM	0115250203	7/7/2017	7:26:35 AM	22	-26.01	40.5	24	734	
1860 DW NW FENCE SP.txt	7/7/2017	1:11:35 PM	0115250203	7/7/2017	7:26:35 AM	23	-26.34	40	24	734	
1860 DW NW FENCE SP.txt	7/7/2017	1:26:35 PM	0115250203	7/7/2017	7:26:35 AM	24	-24.84	38.6	26	734	
1936 DW NW CORNER SP.txt	7/7/2017	7:46:19 AM	0115250202	7/7/2017	7:31:19 AM	1	-4.71	18.6	89	736	
1936 DW NW CORNER SP.txt	7/7/2017	8:01:19 AM	0115250202	7/7/2017	7:31:19 AM	2	-7.28	19.6	86	736	
1936 DW NW CORNER SP.txt	7/7/2017	8:16:19 AM	0115250202	7/7/2017	7:31:19 AM	3	-4.66	21.1	81	736	
1936 DW NW CORNER SP.txt	7/7/2017	8:31:19 AM	0115250202	7/7/2017	7:31:19 AM	4	-11.33	23.1	74	736	
1936 DW NW CORNER SP.txt	7/7/2017	8:46:19 AM	0115250202	7/7/2017	7:31:19 AM	5	-11.2	24.6	67	736	
1936 DW NW CORNER SP.txt	7/7/2017	9:01:19 AM	0115250202	7/7/2017	7:31:19 AM	6	-4.35	25.6	64	736	
1936 DW NW CORNER SP.txt	7/7/2017	9:16:19 AM	0115250202	7/7/2017	7:31:19 AM	7	-14.83	27.2	60	736	
1936 DW NW CORNER SP.txt	7/7/2017	9:31:19 AM	0115250202	7/7/2017	7:31:19 AM	8	-16.01	28.1	56	736	
1936 DW NW CORNER SP.txt	7/7/2017	9:46:19 AM	0115250202	7/7/2017	7:31:19 AM	9	-18.01	28.6	55	736	
1936 DW NW CORNER SP.txt	7/7/2017	10:01:19 AM	0115250202	7/7/2017	7:31:19 AM	10	-10.37	29.7	53	736	
1936 DW NW CORNER SP.txt	7/7/2017	10:16:19 AM	0115250202	7/7/2017	7:31:19 AM	11	-12.77	30.3	51	736	
1936 DW NW CORNER SP.txt	7/7/2017	10:31:19 AM	0115250202	7/7/2017	7:31:19 AM	12	-15.72	30.8	50	736	
1936 DW NW CORNER SP.txt	7/7/2017	10:46:19 AM	0115250202	7/7/2017	7:31:19 AM	13	-8.67	31.6	48	736	
1936 DW NW CORNER SP.txt	7/7/2017	11:01:19 AM	0115250202	7/7/2017	7:31:19 AM	14	4.11	32.3	44	736	
1936 DW NW CORNER SP.txt	7/7/2017	11:16:19 AM	0115250202	7/7/2017	7:31:19 AM	15	-13.69	32.4	40	736	
1936 DW NW CORNER SP.txt	7/7/2017	11:31:19 AM	0115250202	7/7/2017	7:31:19 AM	16	-5.38	33.4	39	736	
1936 DW NW CORNER SP.txt	7/7/2017	11:46:19 AM	0115250202	7/7/2017	7:31:19 AM	17	-11.62	33.8	37	736	
1936 DW NW CORNER SP.txt	7/7/2017	12:01:19 PM	0115250202	7/7/2017	7:31:19 AM	18	-9.43	34.3	34	736	
1936 DW NW CORNER SP.txt	7/7/2017	12:16:19 PM	0115250202	7/7/2017	7:31:19 AM	19	-5.75	35.3	32	736	
1936 DW NW CORNER SP.txt	7/7/2017	12:31:19 PM	0115250202	7/7/2017	7:31:19 AM	20	-19.67	35.5	30	736	
1936 DW NW CORNER SP.txt	7/7/2017	12:46:19 PM	0115250202	7/7/2017	7:31:19 AM	21	-17.66	35.8	31	736	
1936 DW NW CORNER SP.txt	7/7/2017	1:01:19 PM	0115250202	7/7/2017	7:31:19 AM	22	-15.8	36.7	31	736	
1936 DW NW CORNER SP.txt	7/7/2017	1:16:19 PM	0115250202	7/7/2017	7:31:19 AM	23	-17.08	36.9	30	736	
1936 DW NW CORNER SP.txt	7/7/2017	1:31:19 PM	0115250202	7/7/2017	7:31:19 AM	24	-4.88	36.4	31	736	
1954 UW TEE POST SP.txt	7/7/2017	7:55:42 AM	0115250211	7/7/2017	7:40:42 AM	1	2.05	19.1	85	736	
1954 UW TEE POST SP.txt	7/7/2017	8:10:42 AM	0115250211	7/7/2017	7:40:42 AM	2	1.77	19.4	85	736	
1954 UW TEE POST SP.txt	7/7/2017	8:25:42 AM	0115250211	7/7/2017	7:40:42 AM	3	1.39	19.8	85	736	
1954 UW TEE POST SP.txt	7/7/2017	8:40:42 AM	0115250211	7/7/2017	7:40:42 AM	4	0.75	20.4	83	736	
1954 UW TEE POST SP.txt	7/7/2017	8:55:42 AM	0115250211	7/7/2017	7:40:42 AM	5	1.92	21.1	81	736	
1954 UW TEE POST SP.txt	7/7/2017	9:10:42 AM	0115250211	7/7/2017	7:40:42 AM	6	-0.13	21.7	78	736	
1954 UW TEE POST SP.txt	7/7/2017	9:25:42 AM	0115250211	7/7/2017	7:40:42 AM	7	-1.49	22.6	74	736	
1954 UW TEE POST SP.txt	7/7/2017	9:40:42 AM	0115250211	7/7/2017	7:40:42 AM	8	-1.78	23.3	70	736	
1954 UW TEE POST SP.txt	7/7/2017	9:55:42 AM	0115250211	7/7/2017	7:40:42 AM	9	-2.49	23.7	69	736	
1954 UW TEE POST SP.txt	7/7/2017	10:10:42 AM	0115250211	7/7/2017	7:40:42 AM	10	-2.27	24.2	69	736	
1954 UW TEE POST SP.txt	7/7/2017	10:25:42 AM	0115250211	7/7/2017	7:40:42 AM	11	-2.49	24.6	67	734	
1954 UW TEE POST SP.txt	7/7/2017	10:40:42 AM	0115250211	7/7/2017	7:40:42 AM	12	-2.57	24.9	66	734	
1954 UW TEE POST SP.txt	7/7/2017	10:55:42 AM	0115250211	7/7/2017	7:40:42 AM	13	-2.54	25.4	64	734	
1954 UW TEE POST SP.txt	7/7/2017	11:10:42 AM	0115250211	7/7/2017	7:40:42 AM	14	-6.18	26	56	734	
1954 UW TEE POST SP.txt	7/7/2017	11:25:42 AM	0115250211	7/7/2017	7:40:42 AM	15	-5.16	27.2	52	734	
1954 UW TEE POST SP.txt	7/7/2017	11:40:42 AM	0115250211	7/7/2017	7:40:42 AM	16	-8.41	28.3	47	734	
1954 UW TEE POST SP.txt	7/7/2017	11:55:42 AM	0115250211	7/7/2017	7:40:42 AM	17	-8.25	29.9	39	734	
1954 UW TEE POST SP.txt	7/7/2017	12:10:42 PM	0115250211	7/7/2017	7:40:42 AM	18	-7.29	31.6	36	734	
1954 UW TEE POST SP.txt	7/7/2017	12:25:42 PM	0115250211	7/7/2017	7:40:42 AM	19	-6.78	32.3	34	734	
1954 UW TEE POST SP.txt	7/7/2017	12:40:42 PM	0115250211	7/7/2017	7:40:42 AM	20	-6.71	33.2	33	734	
1954 UW TEE POST SP.txt	7/7/2017	12:55:42 PM	0115250211	7/7/2017	7:40:42 AM	21	-5.86	33.8	33	734	
1954 UW TEE POST SP.txt	7/7/2017	1:10:42 PM	0115250211	7/7/2017	7:40:42 AM	22	-5.38	34	33	734	
1954 UW TEE POST SP.txt	7/7/2017	1:25:42 PM	0115250211	7/7/2017	7:40:42 AM	23	-4.02	32.9	34	734	
2535 UW TEE POST TC.txt	7/7/2017	8:03:26 AM	CM15111015	7/7/2017	7:48:26 AM	1	-6.93	19.8	80	736	
2535 UW TEE POST TC.txt	7/7/2017	8:18:26 AM	CM15111015	7/7/2017	7:48:26 AM	2	-10.29	21.1	77	736	
2535 UW TEE POST TC.txt	7/7/2017	8:33:26 AM	CM15111015	7/7/2017	7:48:26 AM	3	-8.29	22.7	71	736	
2535 UW TEE POST TC.txt	7/7/2017	8:48:26 AM	CM15111015	7/7/2017	7:48:26 AM	4	-18.84	24.2	66	736	
2535 UW TEE POST TC.txt	7/7/2017	9:03:26 AM	CM15111015	7/7/2017	7:48:26 AM	5	-27.48	25.8	60	736	
2535 UW TEE POST TC.txt	7/7/2017	9:18:26 AM	CM15111015	7/7/2017	7:48:26 AM	6	-29.66	26.6	57	738	
2535 UW TEE POST TC.txt	7/7/2017	9:33:26 AM	CM15111015	7/7/2017	7:48:26 AM	7	-32.66	27.4	55	738	
2535 UW TEE POST TC.txt	7/7/2017	9:48:26 AM	CM15111015	7/7/2017	7:48:26 AM	8	-34.36	28.9	52	738	
2535 UW TEE POST TC.txt	7/7/2017	10:03:26 AM	CM15111015	7/7/2017	7:48:26 AM	9	-34.5	30.5	47	738	
2535 UW TEE POST TC.txt	7/7/2017	10:18:26 AM	CM15111015	7/7/2017	7:48:26 AM	10	-35.99	31.2	45	736	
2535 UW TEE POST TC.txt	7/7/2017	10:33:26 AM	CM15111015	7/7/2017	7:48:26 AM	11	-37.15	31.5	44	736	
2535 UW TEE POST TC.txt	7/7/2017	10:48:26 AM	CM15111015	7/7/2017	7:48:26 AM	12	-37.25	32.4	41	736	
2535 UW TEE POST TC.txt	7/7/2017	11:03:26 AM	CM15111015	7/7/2017	7:48:26 AM	13	-37.5	32.7	38	736	
2535 UW TEE POST TC.txt	7/7/2017	11:18:26 AM	CM15111015	7/7/2017	7:48:26 AM	14	-36.52	32.8	36	736	
2535 UW TEE POST TC.txt	7/7/2017	11:33:26 AM	CM15111015	7/7/2017	7:48:26 AM	15	-36.27	33.2	35	736	
2535 UW TEE POST TC.txt	7/7/2017	11:48:26 AM	CM15111015	7/7/2017	7:48:26 AM	16	-39.64	34.3	31	736	
2535 UW TEE POST TC.txt	7/7/2017	12:03:26 PM	CM15111015	7/7/2017	7:48:26 AM	17	-37.77	34.8	29	736	
2535 UW TEE POST TC.txt	7/7/2017	12:18:26 PM	CM15111015	7/7/2017	7:48:26 AM	18	-40.47	35.5	28	736	
2535 UW TEE POST TC.txt	7/7/2017	12:33:26 PM	CM15111015	7/7/2017	7:48:26 AM	19	-40.37	35.8	27	736	
2535 UW TEE POST TC.txt	7/7/2017	12:48:26 PM	CM15111015	7/7/2017	7:48:26 AM	20	-39.72	35.7	28	736	
2535 UW TEE POST TC.txt	7/7/2017	1:03:26 PM	CM15111015	7/7/2017	7:48:26 AM	21	-39.58	36.8	27	736	
2535 UW TEE POST TC.txt	7/7/2017	1:18:26 PM	CM15111015	7/7/2017	7:48:26 AM	22	-37.97	37.4	26	736	
2980 DW NE CORNER SP.txt	7/7/2017	7:45:21 AM	CM15111014	7/7/2017	7:30:21 AM	1	-2.11	20.1	86	736	
2980 DW NE CORNER SP.txt	7/7/2017	8:00:21 AM	CM15111014	7/7/2017	7:30:21 AM	2	-4.05	21	83	736	

Summary of CAMP Monitoring

Beech and Bonaparte

Former Sperry Remington Site - North Portion
Elmira, New York

Unit Location	Record Date	Record Time	Unit Serial Number	Start Date	Start Time	Record #	Dust Concentration in µg/m^3	Temp	RHumidity	AtmoPressure in mm/Hg	Notes
2980 DW NE CORNER SP.txt	7/7/2017	8:15:21 AM	CM15111014	7/7/2017	7:30:21 AM	3	-6.22	22.4	79	736	
2980 DW NE CORNER SP.txt	7/7/2017	8:30:21 AM	CM15111014	7/7/2017	7:30:21 AM	4	-3.54	23.9	74	736	
2980 DW NE CORNER SP.txt	7/7/2017	8:45:21 AM	CM15111014	7/7/2017	7:30:21 AM	5	-10.42	24.7	71	736	
2980 DW NE CORNER SP.txt	7/7/2017	9:00:21 AM	CM15111014	7/7/2017	7:30:21 AM	6	-11.29	25.4	68	736	
2980 DW NE CORNER SP.txt	7/7/2017	9:15:21 AM	CM15111014	7/7/2017	7:30:21 AM	7	-3.5	26.6	64	736	
2980 DW NE CORNER SP.txt	7/7/2017	9:30:21 AM	CM15111014	7/7/2017	7:30:21 AM	8	-7.79	27.1	62	736	
2980 DW NE CORNER SP.txt	7/7/2017	9:45:21 AM	CM15111014	7/7/2017	7:30:21 AM	9	-12.71	27.3	61	736	
2980 DW NE CORNER SP.txt	7/7/2017	10:00:21 AM	CM15111014	7/7/2017	7:30:21 AM	10	-8.73	27.5	61	736	
2980 DW NE CORNER SP.txt	7/7/2017	10:15:21 AM	CM15111014	7/7/2017	7:30:21 AM	11	-10.09	28.5	58	736	
2980 DW NE CORNER SP.txt	7/7/2017	10:30:21 AM	CM15111014	7/7/2017	7:30:21 AM	12	-17.53	30.1	54	736	
2980 DW NE CORNER SP.txt	7/7/2017	10:45:21 AM	CM15111014	7/7/2017	7:30:21 AM	13	-17.44	32.2	48	736	
2980 DW NE CORNER SP.txt	7/7/2017	11:00:21 AM	CM15111014	7/7/2017	7:30:21 AM	14	-13.99	33.3	44	736	
2980 DW NE CORNER SP.txt	7/7/2017	11:15:21 AM	CM15111014	7/7/2017	7:30:21 AM	15	-10.18	33.3	40	736	
2980 DW NE CORNER SP.txt	7/7/2017	11:30:21 AM	CM15111014	7/7/2017	7:30:21 AM	16	-11.93	34.4	38	736	
2980 DW NE CORNER SP.txt	7/7/2017	11:45:21 AM	CM15111014	7/7/2017	7:30:21 AM	17	-21	35.3	34	736	
2980 DW NE CORNER SP.txt	7/7/2017	12:00:21 PM	CM15111014	7/7/2017	7:30:21 AM	18	-12.26	35.7	31	736	
2980 DW NE CORNER SP.txt	7/7/2017	12:15:21 PM	CM15111014	7/7/2017	7:30:21 AM	19	-15.43	36.8	29	736	
2980 DW NE CORNER SP.txt	7/7/2017	12:30:21 PM	CM15111014	7/7/2017	7:30:21 AM	20	-22.29	37.2	28	736	
2980 DW NE CORNER SP.txt	7/7/2017	12:45:21 PM	CM15111014	7/7/2017	7:30:21 AM	21	-19.88	37.4	29	736	
2980 DW NE CORNER SP.txt	7/7/2017	1:00:21 PM	CM15111014	7/7/2017	7:30:21 AM	22	-20.68	38.2	28	736	
2980 DW NE CORNER SP.txt	7/7/2017	1:15:21 PM	CM15111014	7/7/2017	7:30:21 AM	23	-20.89	38.5	27	736	
2980 DW NE CORNER SP.txt	7/7/2017	1:30:21 PM	CM15111014	7/7/2017	7:30:21 AM	24	-16.98	37.5	29	736	
801 DW NE CORNER TC.txt	7/7/2017	8:16:30 AM	0115249188	7/7/2017	8:01:30 AM	1	-6.03	20.6	78	736	
801 DW NE CORNER TC.txt	7/7/2017	8:31:30 AM	0115249188	7/7/2017	8:01:30 AM	2	-9.29	22.2	73	736	
801 DW NE CORNER TC.txt	7/7/2017	8:46:30 AM	0115249188	7/7/2017	8:01:30 AM	3	-10.33	24.1	67	734	
801 DW NE CORNER TC.txt	7/7/2017	9:01:30 AM	0115249188	7/7/2017	8:01:30 AM	4	-13.36	25.5	62	734	
801 DW NE CORNER TC.txt	7/7/2017	9:16:30 AM	0115249188	7/7/2017	8:01:30 AM	5	-15.91	26.7	56	734	
801 DW NE CORNER TC.txt	7/7/2017	9:31:30 AM	0115249188	7/7/2017	8:01:30 AM	6	-16.32	26.8	56	734	
801 DW NE CORNER TC.txt	7/7/2017	9:46:30 AM	0115249188	7/7/2017	8:01:30 AM	7	-17.68	28.1	53	734	
801 DW NE CORNER TC.txt	7/7/2017	10:01:30 AM	0115249188	7/7/2017	8:01:30 AM	8	-18.11	30	48	734	
801 DW NE CORNER TC.txt	7/7/2017	10:16:30 AM	0115249188	7/7/2017	8:01:30 AM	9	-18.14	31.3	44	734	
801 DW NE CORNER TC.txt	7/7/2017	10:31:30 AM	0115249188	7/7/2017	8:01:30 AM	10	-17.46	31.6	42	734	
801 DW NE CORNER TC.txt	7/7/2017	10:46:30 AM	0115249188	7/7/2017	8:01:30 AM	11	-18	32	42	734	
801 DW NE CORNER TC.txt	7/7/2017	11:01:30 AM	0115249188	7/7/2017	8:01:30 AM	12	-17.07	32.8	38	734	
801 DW NE CORNER TC.txt	7/7/2017	11:16:30 AM	0115249188	7/7/2017	8:01:30 AM	13	-16.2	32.7	36	734	
801 DW NE CORNER TC.txt	7/7/2017	11:31:30 AM	0115249188	7/7/2017	8:01:30 AM	14	-15.36	32.8	36	734	
801 DW NE CORNER TC.txt	7/7/2017	11:46:30 AM	0115249188	7/7/2017	8:01:30 AM	15	-16.42	34	32	734	
801 DW NE CORNER TC.txt	7/7/2017	12:01:30 PM	0115249188	7/7/2017	8:01:30 AM	16	-18.28	35	27	734	
801 DW NE CORNER TC.txt	7/7/2017	12:16:30 PM	0115249188	7/7/2017	8:01:30 AM	17	-17.71	35.9	26	734	
801 DW NE CORNER TC.txt	7/7/2017	12:31:30 PM	0115249188	7/7/2017	8:01:30 AM	18	-18.38	36.4	25	734	
801 DW NE CORNER TC.txt	7/7/2017	12:46:30 PM	0115249188	7/7/2017	8:01:30 AM	19	-8.92	35.9	26	734	
801 DW NE CORNER TC.txt	7/7/2017	1:01:30 PM	0115249188	7/7/2017	8:01:30 AM	20	-17.66	36.7	25	734	
801 DW NE CORNER TC.txt	7/7/2017	1:16:30 PM	0115249188	7/7/2017	8:01:30 AM	21	-17.99	38.1	24	734	
801 DW NE CORNER TC.txt	7/7/2017	1:31:30 PM	0115249188	7/7/2017	8:01:30 AM	22	-16.65	38.8	23	732	
818 DW NW FENCE TC.txt	7/7/2017	8:00:27 AM	0115249311	7/7/2017	7:45:27 AM	1	3.07	20.5	81	736	
818 DW NW FENCE TC.txt	7/7/2017	8:15:27 AM	0115249311	7/7/2017	7:45:27 AM	2	3.21	24.3	70	736	
818 DW NW FENCE TC.txt	7/7/2017	8:30:27 AM	0115249311	7/7/2017	7:45:27 AM	3	3.32	28	58	736	
818 DW NW FENCE TC.txt	7/7/2017	8:45:27 AM	0115249311	7/7/2017	7:45:27 AM	4	4.17	30.3	50	736	
818 DW NW FENCE TC.txt	7/7/2017	9:00:27 AM	0115249311	7/7/2017	7:45:27 AM	5	3.07	31	49	736	
818 DW NW FENCE TC.txt	7/7/2017	9:15:27 AM	0115249311	7/7/2017	7:45:27 AM	6	1.72	31.3	47	736	
818 DW NW FENCE TC.txt	7/7/2017	9:30:27 AM	0115249311	7/7/2017	7:45:27 AM	7	1.85	30.9	48	736	
818 DW NW FENCE TC.txt	7/7/2017	9:45:27 AM	0115249311	7/7/2017	7:45:27 AM	8	1.54	31.6	48	736	
818 DW NW FENCE TC.txt	7/7/2017	10:00:27 AM	0115249311	7/7/2017	7:45:27 AM	9	1.52	31.9	47	736	
818 DW NW FENCE TC.txt	7/7/2017	10:15:27 AM	0115249311	7/7/2017	7:45:27 AM	10	1.85	32	47	736	
818 DW NW FENCE TC.txt	7/7/2017	10:30:27 AM	0115249311	7/7/2017	7:45:27 AM	11	1.22	32.8	45	736	
818 DW NW FENCE TC.txt	7/7/2017	10:45:27 AM	0115249311	7/7/2017	7:45:27 AM	12	2.68	33.4	43	736	
818 DW NW FENCE TC.txt	7/7/2017	11:00:27 AM	0115249311	7/7/2017	7:45:27 AM	13	3.3	34	40	736	
818 DW NW FENCE TC.txt	7/7/2017	11:15:27 AM	0115249311	7/7/2017	7:45:27 AM	14	3.8	35.2	37	736	
818 DW NW FENCE TC.txt	7/7/2017	11:30:27 AM	0115249311	7/7/2017	7:45:27 AM	15	9.76	36	34	736	
818 DW NW FENCE TC.txt	7/7/2017	11:45:27 AM	0115249311	7/7/2017	7:45:27 AM	16	1.79	36.2	32	736	
818 DW NW FENCE TC.txt	7/7/2017	12:00:27 PM	0115249311	7/7/2017	7:45:27 AM	17	3.15	35.7	30	736	
818 DW NW FENCE TC.txt	7/7/2017	12:15:27 PM	0115249311	7/7/2017	7:45:27 AM	18	2.14	35.7	30	736	
818 DW NW FENCE TC.txt	7/7/2017	12:30:27 PM	0115249311	7/7/2017	7:45:27 AM	19	2.26	35.8	30	736	
818 DW NW FENCE TC.txt	7/7/2017	12:45:27 PM	0115249311	7/7/2017	7:45:27 AM	20	1.55	35.8	31	736	
818 DW NW FENCE TC.txt	7/7/2017	1:00:27 PM	0115249311	7/7/2017	7:45:27 AM	21	3.62	36.2	31	736	
818 DW NW FENCE TC.txt	7/7/2017	1:15:27 PM	0115249311	7/7/2017	7:45:27 AM	22	3.05	36.5	31	736	
1421 DW NW CORNER TC.txt	7/8/2017	7:38:50 AM	0115249975	7/8/2017	7:23:50 AM	1	-0.74	19.9	70	734	
1421 DW NW CORNER TC.txt	7/8/2017	7:53:50 AM	0115249975	7/8/2017	7:23:50 AM	2	-2.17	20.6	70	734	
1421 DW NW CORNER TC.txt	7/8/2017	8:08:50 AM	0115249975	7/8/2017	7:23:50 AM	3	0.72	21.9	65	734	
1421 DW NW CORNER TC.txt	7/8/2017	8:23:50 AM	0115249975	7/8/2017	7:23:50 AM	4	-1.13	22.3	63	734	
1421 DW NW CORNER TC.txt	7/8/2017	8:38:50 AM	0115249975	7/8/2017	7:23:50 AM	5	-0.06	22.4	62	734	
1421 DW NW CORNER TC.txt	7/8/2017	8:53:50 AM	0115249975	7/8/2017	7:23:50 AM	6	0.32	22.4	62	734	
1421 DW NW CORNER TC.txt	7/8/2017	9:08:50 AM	0115249975	7/8/2017	7:23:50 AM	7	3.27	22.4	62	734	
1421 DW NW CORNER TC.txt	7/8/2017	9:23:50 AM	0115249975	7/8/2017	7:23:50 AM	8	1.81	22.4	62	734	
1421 DW NW CORNER TC.txt	7/8/2017	9:38:50 AM	0115249975	7/8/2017	7:23:50 AM	9	3.12	22.4	63	734	
1421 DW NW CORNER TC.txt	7/8/2017	9:53:50 AM	0115249975	7/8/2017	7:23:50 AM	10	1.05	22.9	61	734	
1421 DW NW CORNER TC.txt	7/8/2017	10:08:50 AM	0115249975	7/8/2017	7:23:50 AM	11	1.6	23.6	58	734	
1421 DW NW CORNER TC.txt	7/8/2017	10:23:50 AM	0115249975	7/8/2017	7:23:50 AM	12	-0.5	23.7	59	734	
1421 DW NW CORNER TC.txt	7/8/2017	10:38:50 AM	0115249975	7/8/2017	7:23:50 AM	13	-1.66	23.6	60	734	
1421 DW NW CORNER TC.txt	7/8/2017	10:53:50 AM	0115249975	7/8/2017	7:23:50 AM	14	0.26	24.1	60	734	
1421 DW NW CORNER TC.txt	7/8/2017	11:08:50 AM	0115249975	7/8/2017	7:23:50 AM	15	-1.21	24.7	57	734	
1421 DW NW CORNER TC.txt	7/8/2017	11:23:50 AM	0115249975	7/8/2017	7:23:50 AM	16	-5.88	25.2	52	734	
1421 DW NW CORNER TC.txt	7/8/2017	11:38:50 AM	0115249975	7/8/2017	7:23:50 AM	17	-5.65	25.9	48	734	
1421 DW NW CORNER TC.txt	7/8/2017	11:53:50 AM	0115249975	7/8/2017	7:23:50 AM	18	-5.44	26.7	46	734	
1421 DW NW CORNER TC.txt	7/8/2017	12:08:50 PM	0115249975	7/8/2017	7:23:50 AM	19	-5.36	27.6	44	734	
1421 DW NW CORNER TC.txt	7/8/2017	12:23:50 PM	0115249975	7/8/2017	7:23:50 AM	20	-4.51	28.5	42	734	
1421 DW NW CORNER TC.txt	7/8/2017	12:38:50 PM	0115249975	7/8/2017	7:23:50 AM	21	7.02	27.6	49	734	
1421 DW NW CORNER TC.txt	7/8/2017	12:53:50 PM	0115249975	7/8/2017	7:23:50 AM	22	4.58	24	66	734	
1421 DW NW CORNER TC.txt	7/8/2017	1:08:50 PM	0115249975	7/8/2017	7:23:50 AM	23	2.73	21.5	76	734	
1421 DW NW CORNER TC.txt	7/8/2017	1:23:50 PM	0115249975	7/8/2017	7:23:50 AM	24	3.01	21	82	734	
1421 DW NW CORNER TC.txt	7/8/2017	1:38:50 PM	0115249975	7/8/2017	7:23:50 AM	25	1.09	21.7	81	734	
1421 DW NW CORNER TC.txt	7/8/2017	1:53:50 PM	0115249975	7/8/2017	7:23:50 AM	26	4.46	22.4	81	734	
1421 DW NW CORNER TC.txt	7/8/2017	2:08:50 PM	0115249975	7/8/2017	7:23:50 AM	27	2.16	22.1	83	734	
1421 DW NW CORNER TC.txt	7/8/2017	2:23:50 PM	0115249975	7/8/2017	7:23:50 AM	28	2.34	22.1	83	734	
1421 DW NW CORNER TC.txt	7/8/2017	2:38:50 PM	0115249975	7/8/2017	7:23:50 AM	29	-0.08	22.4	78	734	
1421 DW NW CORNER TC.txt	7/8/2017	2:53:50 PM	0115249975	7/8/2017	7:23:50 AM	30	-1.97	22.8	69	734	
1421 DW NW CORNER TC.txt	7/8/2017	3:08:50 PM	0115249975	7/8/2017	7:23:50 AM	31	-4.23	23.6	57	734	
1421 DW NW CORNER TC.txt	7/8/2017	3:23:50 PM	0115249975	7/8/2017	7:23:50 AM	32	-4.94	24.8	50	734	
1421 DW NW CORNER TC.txt	7/8/2017	3:38:50 PM	0115249975	7/8/2017	7:23:50 AM	33	-5.43	26.4	41	734	
1421 DW NW CORNER TC.txt	7/8/2017	3:53:50 PM	0115249975	7/8/2017	7:23:50 AM	34	-5.16	27.7	37	734	
1421 DW NW CORNER TC.txt	7/8/2017	4:08:50 PM	0115249975	7/8/2017	7:23:50 AM	35	-3.28	28.6	33	734	
1421 DW NW CORNER TC.txt	7/8/2017	4:23:50 PM	0115249975	7/8/2017	7:23:50 AM	36	-7.62	29.3	33	734	
1421 DW NW CORNER TC.txt	7/8/2017	4:38:50 PM	0115249975	7/8/2017	7:23:50 AM	37	-7.22	28.8	30	734	
1421 DW NW CORNER TC.txt	7/8/2017	4:53:50 PM	0115249975	7/8/2017	7:23:50 AM	38	-8.17	27.3	27	734	
1429 DW CENTER FENCE TC 1.txt	7/8/2017	8:29:43 AM	0115250009	7/8/2017	8:14:43 AM	1	-2.87	22.3	63	734	
1429 DW CENTER FENCE TC 1.txt	7/8/2017	8:44:43 AM	0115250009	7/8/2017	8:14:43 AM	2	-2.2	22.6	61	734	
1429 DW CENTER FENCE TC 1.txt	7/8/2017	8:59:43 AM	0115250009	7/8/2017	8:14:43 AM	3	-3.84	22.7	61	734	
1429 DW CENTER FENCE TC 1.txt	7/8/2017	9:14:43 AM	0115250009	7/8/2017	8:14:43 AM	4	10.32	22.8	61	734	
1429 DW CENTER FENCE TC 1.txt	7/8/2017	9:29:43 AM	0115250009	7/8/2017	8:14:43 AM	5	38.5	23	62	734	
1429 DW CENTER FENCE TC 1.txt	7/8/2017	9:44:43 AM	0115250009	7/8/2017	8:14:43 AM	6	-2.47	23.8	61	734	
1429 DW CENTER FENCE TC 2.txt	7/8/2017	1:06:02 PM	0115250009	7/8/2017	12:51:02 PM	1	-2.15	22.3	69	734	
1429 DW CENTER FENCE TC 2.txt	7/8/2017	1:21:02 PM	0115250009	7/8/2017	12:51:02 PM	2	-2.62	21.7	77	734	
1429 DW CENTER FENCE TC 2.txt	7/8/2017	1:36:02 PM	0115250009	7/8/2017	12:51:02 PM	3	-2.52	24.6	70	734	
1429 DW CENTER FENCE TC 2.txt	7/8/2017	1:51:02 PM	0115250009	7/8/2017	12:51:02 PM	4	-1.85	26.9	62	734	
1429 DW CENTER FENCE TC 2.txt	7/8/2017	2:06:02 PM	0115250009	7/8/2017	12:51:02 PM	5	-5.7	25.8	64	734	
1429 DW CENTER FENCE TC 2.txt	7/8/2017	2:21:02 PM	0115250009	7/8/2017	12:51:02 PM	6	-5.71	26.2	63	734	
1429 DW CENTER FENCE TC 2.txt	7/8/2017	2:36:02 PM	0115250009	7/8/2017	12:51:02 PM	7	-7.13	27.9	57	734	
1429 DW CENTER FENCE TC 2.txt	7/8/2017	2:51:02 PM	0115250009	7/8/2017	12:51:02 PM	8	-6.63	31.2	44	734	
1429 DW CENTER FENCE TC 2.txt	7/8/2017	3:06:02 PM	0115250009	7/8/2017	12:51:02 PM	9	-6.44	33.5	35	734	
1429 DW CENTER FENCE TC 2.txt	7/8/2017	3:21:02 PM	0115250009	7/8/2017	12:51:02 PM	10	-5.44	34.6	30	734	
1429 DW CENTER FENCE TC 2.txt	7/8/2017	3:36:02 PM	0115250009	7/8/2017	12:51:02 PM	11	-4.84	35.4	28	734	
1429 DW CENTER FENCE TC 2.txt	7/8/2017	3:51:02 PM	0115250009	7/8/2017	12:51:02 PM	12	-4.55	35.5	26	734	
1429 DW CENTER FENCE TC 2.txt	7/8/2017	4:06:02 PM	0115250009	7/8/2017	12:51:02 PM	13	-5.05	35.2	25	734	
1429 DW CENTER FENCE TC 2.txt	7/8/2017	4:21:02 PM	0115250009	7/8/2017	12:51:02 PM	14	-4.48	33.7	29	736	
1429 DW CENTER FENCE TC 2.txt	7/8/2017	4:36:02 PM	0115250009	7/8/2017	12:51:02 PM	15	-6.42	30.7	35	736	

Summary of CAMP Monitoring

Beech and Bonaparte

Former Sperry Remington Site - North Portion
Elmira, New York

Unit Location	Record Date	Record Time	Unit Serial Number	Start Date	Start Time	Record #	Dust Concentration in µg/m^3	Temp	RHumidity	AtmoPressure in mm/Hg	Notes
1429 DW CENTER FENCE TC 2.txt	7/8/2017	4:51:02 PM	0115250009	7/8/2017	12:51:02 PM	16	-7.39	27.8	34	736	
1860 DW NW FENCE SP.txt	7/8/2017	8:05:07 AM	0115250203	7/8/2017	7:50:07 AM	1	2.01	22.2	66	734	
1860 DW NW FENCE SP.txt	7/8/2017	8:20:07 AM	0115250203	7/8/2017	7:50:07 AM	2	2.24	23.7	60	734	
1860 DW NW FENCE SP.txt	7/8/2017	8:35:07 AM	0115250203	7/8/2017	7:50:07 AM	3	0.76	23.6	60	734	
1860 DW NW FENCE SP.txt	7/8/2017	8:50:07 AM	0115250203	7/8/2017	7:50:07 AM	4	0.86	23.5	61	734	
1860 DW NW FENCE SP.txt	7/8/2017	9:05:07 AM	0115250203	7/8/2017	7:50:07 AM	5	0.6	23.4	60	734	
1860 DW NW FENCE SP.txt	7/8/2017	9:20:07 AM	0115250203	7/8/2017	7:50:07 AM	6	1.24	23.4	61	734	
1860 DW NW FENCE SP.txt	7/8/2017	9:35:07 AM	0115250203	7/8/2017	7:50:07 AM	7	0.94	23.4	61	734	
1860 DW NW FENCE SP.txt	7/8/2017	9:50:07 AM	0115250203	7/8/2017	7:50:07 AM	8	2.51	24	60	734	
1860 DW NW FENCE SP.txt	7/8/2017	10:05:07 AM	0115250203	7/8/2017	7:50:07 AM	9	5.44	25.5	55	734	
1860 DW NW FENCE SP.txt	7/8/2017	10:20:07 AM	0115250203	7/8/2017	7:50:07 AM	10	1.79	26	53	734	
1860 DW NW FENCE SP.txt	7/8/2017	10:35:07 AM	0115250203	7/8/2017	7:50:07 AM	11	4.28	25.4	57	734	
1860 DW NW FENCE SP.txt	7/8/2017	10:50:07 AM	0115250203	7/8/2017	7:50:07 AM	12	1.13	26.6	55	734	
1860 DW NW FENCE SP.txt	7/8/2017	11:05:07 AM	0115250203	7/8/2017	7:50:07 AM	13	0.63	29	47	734	
1860 DW NW FENCE SP.txt	7/8/2017	11:20:07 AM	0115250203	7/8/2017	7:50:07 AM	14	-1.09	30.7	42	734	
1860 DW NW FENCE SP.txt	7/8/2017	11:35:07 AM	0115250203	7/8/2017	7:50:07 AM	15	0.8	32.5	37	734	
1860 DW NW FENCE SP.txt	7/8/2017	11:50:07 AM	0115250203	7/8/2017	7:50:07 AM	16	-0.29	33.9	34	734	
1860 DW NW FENCE SP.txt	7/8/2017	12:05:07 PM	0115250203	7/8/2017	7:50:07 AM	17	8.79	35.2	32	734	
1860 DW NW FENCE SP.txt	7/8/2017	12:20:07 PM	0115250203	7/8/2017	7:50:07 AM	18	2.51	36	30	734	
1860 DW NW FENCE SP.txt	7/8/2017	12:35:07 PM	0115250203	7/8/2017	7:50:07 AM	19	97.27	34.4	35	734	
1860 DW NW FENCE SP.txt	7/8/2017	12:50:07 PM	0115250203	7/8/2017	7:50:07 AM	20	18.07	26.3	65	734	
1860 DW NW FENCE SP.txt	7/8/2017	1:05:07 PM	0115250203	7/8/2017	7:50:07 AM	21	2.99	21.6	81	734	
1860 DW NW FENCE SP.txt	7/8/2017	1:20:07 PM	0115250203	7/8/2017	7:50:07 AM	22	2.12	20.8	89	734	
1860 DW NW FENCE SP.txt	7/8/2017	1:35:07 PM	0115250203	7/8/2017	7:50:07 AM	23	1.98	22.8	86	734	
1860 DW NW FENCE SP.txt	7/8/2017	1:50:07 PM	0115250203	7/8/2017	7:50:07 AM	24	2.72	24.7	81	734	
1860 DW NW FENCE SP.txt	7/8/2017	2:05:07 PM	0115250203	7/8/2017	7:50:07 AM	25	3.51	24.3	81	734	
1860 DW NW FENCE SP.txt	7/8/2017	2:20:07 PM	0115250203	7/8/2017	7:50:07 AM	26	2.2	23.6	81	734	
1860 DW NW FENCE SP.txt	7/8/2017	2:35:07 PM	0115250203	7/8/2017	7:50:07 AM	27	2.21	24.3	75	734	
1860 DW NW FENCE SP.txt	7/8/2017	2:50:07 PM	0115250203	7/8/2017	7:50:07 AM	28	1.35	25.6	64	734	
1860 DW NW FENCE SP.txt	7/8/2017	3:05:07 PM	0115250203	7/8/2017	7:50:07 AM	29	1.71	26.5	55	734	
1860 DW NW FENCE SP.txt	7/8/2017	3:20:07 PM	0115250203	7/8/2017	7:50:07 AM	30	0.12	27.3	50	734	
1860 DW NW FENCE SP.txt	7/8/2017	3:35:07 PM	0115250203	7/8/2017	7:50:07 AM	31	0.53	28.4	45	734	
1860 DW NW FENCE SP.txt	7/8/2017	3:50:07 PM	0115250203	7/8/2017	7:50:07 AM	32	1.26	28.9	38	734	
1860 DW NW FENCE SP.txt	7/8/2017	4:05:07 PM	0115250203	7/8/2017	7:50:07 AM	33	0.78	29.1	36	734	
1860 DW NW FENCE SP.txt	7/8/2017	4:20:07 PM	0115250203	7/8/2017	7:50:07 AM	34	0.25	29.1	37	734	
1936 DW NW CORNER SP.txt	7/8/2017	8:04:17 AM	0115250202	7/8/2017	7:49:17 AM	1	5.37	20.1	73	734	
1936 DW NW CORNER SP.txt	7/8/2017	8:19:17 AM	0115250202	7/8/2017	7:49:17 AM	2	25.2	21.3	68	734	
1936 DW NW CORNER SP.txt	7/8/2017	8:34:17 AM	0115250202	7/8/2017	7:49:17 AM	3	6.81	21.5	68	734	
1936 DW NW CORNER SP.txt	7/8/2017	8:49:17 AM	0115250202	7/8/2017	7:49:17 AM	4	19.93	22	67	734	
1936 DW NW CORNER SP.txt	7/8/2017	9:04:17 AM	0115250202	7/8/2017	7:49:17 AM	5	22.39	22.1	65	734	
1936 DW NW CORNER SP.txt	7/8/2017	9:19:17 AM	0115250202	7/8/2017	7:49:17 AM	6	17.44	22.2	65	734	
1936 DW NW CORNER SP.txt	7/8/2017	9:34:17 AM	0115250202	7/8/2017	7:49:17 AM	7	8.37	22.5	64	734	
1936 DW NW CORNER SP.txt	7/8/2017	9:49:17 AM	0115250202	7/8/2017	7:49:17 AM	8	11.86	23.2	63	736	
1936 DW NW CORNER SP.txt	7/8/2017	10:04:17 AM	0115250202	7/8/2017	7:49:17 AM	9	33.4	24.4	59	734	
1936 DW NW CORNER SP.txt	7/8/2017	10:19:17 AM	0115250202	7/8/2017	7:49:17 AM	10	49.81	24.6	58	734	
1936 DW NW CORNER SP.txt	7/8/2017	10:34:17 AM	0115250202	7/8/2017	7:49:17 AM	11	21.82	24.1	61	734	
1936 DW NW CORNER SP.txt	7/8/2017	10:49:17 AM	0115250202	7/8/2017	7:49:17 AM	12	7.08	24.6	61	736	
1936 DW NW CORNER SP.txt	7/8/2017	11:04:17 AM	0115250202	7/8/2017	7:49:17 AM	13	10.32	25.8	57	736	
1936 DW NW CORNER SP.txt	7/8/2017	11:19:17 AM	0115250202	7/8/2017	7:49:17 AM	14	17.28	26.7	54	736	
1936 DW NW CORNER SP.txt	7/8/2017	11:34:17 AM	0115250202	7/8/2017	7:49:17 AM	15	10.08	28.5	47	736	
1936 DW NW CORNER SP.txt	7/8/2017	11:49:17 AM	0115250202	7/8/2017	7:49:17 AM	16	14.68	29.9	44	736	
1936 DW NW CORNER SP.txt	7/8/2017	12:04:17 PM	0115250202	7/8/2017	7:49:17 AM	17	5.1	31.6	40	736	
1936 DW NW CORNER SP.txt	7/8/2017	12:19:17 PM	0115250202	7/8/2017	7:49:17 AM	18	11.46	32.8	37	736	
1936 DW NW CORNER SP.txt	7/8/2017	12:34:17 PM	0115250202	7/8/2017	7:49:17 AM	19	9.99	32.3	39	736	
1936 DW NW CORNER SP.txt	7/8/2017	12:49:17 PM	0115250202	7/8/2017	7:49:17 AM	20	12.75	26.3	55	736	
1936 DW NW CORNER SP.txt	7/8/2017	1:04:17 PM	0115250202	7/8/2017	7:49:17 AM	21	6.49	21.7	72	736	
1936 DW NW CORNER SP.txt	7/8/2017	1:19:17 PM	0115250202	7/8/2017	7:49:17 AM	22	3.56	20.7	82	734	
1936 DW NW CORNER SP.txt	7/8/2017	1:34:17 PM	0115250202	7/8/2017	7:49:17 AM	23	3.91	23.4	73	734	
1936 DW NW CORNER SP.txt	7/8/2017	1:49:17 PM	0115250202	7/8/2017	7:49:17 AM	24	5.67	26.3	63	736	
1936 DW NW CORNER SP.txt	7/8/2017	2:04:17 PM	0115250202	7/8/2017	7:49:17 AM	25	6.79	25.6	68	736	
1936 DW NW CORNER SP.txt	7/8/2017	2:19:17 PM	0115250202	7/8/2017	7:49:17 AM	26	4.76	25.3	69	736	
1936 DW NW CORNER SP.txt	7/8/2017	2:34:17 PM	0115250202	7/8/2017	7:49:17 AM	27	4.9	26.1	62	736	
1936 DW NW CORNER SP.txt	7/8/2017	2:49:17 PM	0115250202	7/8/2017	7:49:17 AM	28	4.38	28.7	50	736	
1936 DW NW CORNER SP.txt	7/8/2017	3:04:17 PM	0115250202	7/8/2017	7:49:17 AM	29	4.4	30.4	43	736	
1936 DW NW CORNER SP.txt	7/8/2017	3:19:17 PM	0115250202	7/8/2017	7:49:17 AM	30	3.82	31.4	38	736	
1936 DW NW CORNER SP.txt	7/8/2017	3:34:17 PM	0115250202	7/8/2017	7:49:17 AM	31	3.77	32.6	35	736	
1936 DW NW CORNER SP.txt	7/8/2017	3:49:17 PM	0115250202	7/8/2017	7:49:17 AM	32	3.84	33.1	32	736	
1936 DW NW CORNER SP.txt	7/8/2017	4:04:17 PM	0115250202	7/8/2017	7:49:17 AM	33	3.52	32.9	31	736	
1936 DW NW CORNER SP.txt	7/8/2017	4:19:17 PM	0115250202	7/8/2017	7:49:17 AM	34	4.76	32.7	32	736	
1954 UW TEE POST SP.txt	7/8/2017	7:52:16 AM	0115250211	7/8/2017	7:37:16 AM	1	0.92	19	75	732	
1954 UW TEE POST SP.txt	7/8/2017	8:07:16 AM	0115250211	7/8/2017	7:37:16 AM	2	2.34	19.5	74	732	
1954 UW TEE POST SP.txt	7/8/2017	8:22:16 AM	0115250211	7/8/2017	7:37:16 AM	3	3.23	19.8	73	734	
1954 UW TEE POST SP.txt	7/8/2017	8:37:16 AM	0115250211	7/8/2017	7:37:16 AM	4	2.93	20	72	734	
1954 UW TEE POST SP.txt	7/8/2017	8:52:16 AM	0115250211	7/8/2017	7:37:16 AM	5	3.1	20.4	71	734	
1954 UW TEE POST SP.txt	7/8/2017	9:07:16 AM	0115250211	7/8/2017	7:37:16 AM	6	3.29	20.8	70	734	
1954 UW TEE POST SP.txt	7/8/2017	9:22:16 AM	0115250211	7/8/2017	7:37:16 AM	7	4.46	21.2	68	734	
1954 UW TEE POST SP.txt	7/8/2017	9:37:16 AM	0115250211	7/8/2017	7:37:16 AM	8	4.39	21.3	68	734	
1954 UW TEE POST SP.txt	7/8/2017	9:52:16 AM	0115250211	7/8/2017	7:37:16 AM	9	5.26	22	66	734	
1954 UW TEE POST SP.txt	7/8/2017	10:07:16 AM	0115250211	7/8/2017	7:37:16 AM	10	5.62	22.9	63	734	
1954 UW TEE POST SP.txt	7/8/2017	10:22:16 AM	0115250211	7/8/2017	7:37:16 AM	11	5.62	23	63	734	
1954 UW TEE POST SP.txt	7/8/2017	10:37:16 AM	0115250211	7/8/2017	7:37:16 AM	12	5.94	22.8	64	734	
1954 UW TEE POST SP.txt	7/8/2017	10:52:16 AM	0115250211	7/8/2017	7:37:16 AM	13	5.61	22.7	65	734	
1954 UW TEE POST SP.txt	7/8/2017	11:07:16 AM	0115250211	7/8/2017	7:37:16 AM	14	4.45	23.1	64	734	
1954 UW TEE POST SP.txt	7/8/2017	11:22:16 AM	0115250211	7/8/2017	7:37:16 AM	15	1.94	23.8	60	734	
1954 UW TEE POST SP.txt	7/8/2017	11:37:16 AM	0115250211	7/8/2017	7:37:16 AM	16	-0.04	24.6	56	734	
1954 UW TEE POST SP.txt	7/8/2017	11:52:16 AM	0115250211	7/8/2017	7:37:16 AM	17	1.18	26.5	50	734	
1954 UW TEE POST SP.txt	7/8/2017	12:07:16 PM	0115250211	7/8/2017	7:37:16 AM	18	4.72	28.9	43	734	
1954 UW TEE POST SP.txt	7/8/2017	12:22:16 PM	0115250211	7/8/2017	7:37:16 AM	19	3.68	29.9	41	734	
1954 UW TEE POST SP.txt	7/8/2017	12:37:16 PM	0115250211	7/8/2017	7:37:16 AM	20	16.59	28.3	47	734	
1954 UW TEE POST SP.txt	7/8/2017	12:52:16 PM	0115250211	7/8/2017	7:37:16 AM	21	3.77	21.4	75	734	
1954 UW TEE POST SP.txt	7/8/2017	1:07:16 PM	0115250211	7/8/2017	7:37:16 AM	22	-63.79	19.1	89	734	
1954 UW TEE POST SP.txt	7/8/2017	1:22:16 PM	0115250211	7/8/2017	7:37:16 AM	23	-110.95	19	91	734	
1954 UW TEE POST SP.txt	7/8/2017	1:37:16 PM	0115250211	7/8/2017	7:37:16 AM	24	-150.31	20.2	88	734	
1954 UW TEE POST SP.txt	7/8/2017	1:52:16 PM	0115250211	7/8/2017	7:37:16 AM	25	-135.65	21.4	86	734	
1954 UW TEE POST SP.txt	7/8/2017	2:07:16 PM	0115250211	7/8/2017	7:37:16 AM	26	-95.17	21.2	90	734	
1954 UW TEE POST SP.txt	7/8/2017	2:22:16 PM	0115250211	7/8/2017	7:37:16 AM	27	-99.04	21.6	88	734	
1954 UW TEE POST SP.txt	7/8/2017	2:37:16 PM	0115250211	7/8/2017	7:37:16 AM	28	-94.91	21.8	78	734	
1954 UW TEE POST SP.txt	7/8/2017	2:52:16 PM	0115250211	7/8/2017	7:37:16 AM	29	-45.09	22.7	68	734	
1954 UW TEE POST SP.txt	7/8/2017	3:07:16 PM	0115250211	7/8/2017	7:37:16 AM	30	-15.12	23.8	60	734	
1954 UW TEE POST SP.txt	7/8/2017	3:22:16 PM	0115250211	7/8/2017	7:37:16 AM	31	-6.19	25.1	51	734	
1954 UW TEE POST SP.txt	7/8/2017	3:37:16 PM	0115250211	7/8/2017	7:37:16 AM	32	7.37	26.8	44	734	
1954 UW TEE POST SP.txt	7/8/2017	3:52:16 PM	0115250211	7/8/2017	7:37:16 AM	33	11.88	27.5	40	734	
1954 UW TEE POST SP.txt	7/8/2017	4:07:16 PM	0115250211	7/8/2017	7:37:16 AM	34	11.22	28	36	734	
2535 UW TEE POST TC.txt	7/8/2017	7:40:50 AM	CM15111015	7/8/2017	7:25:50 AM	1	-6.27	19	71	734	
2535 UW TEE POST TC.txt	7/8/2017	7:55:50 AM	CM15111015	7/8/2017	7:25:50 AM	2	-7.98	20.2	70	734	
2535 UW TEE POST TC.txt	7/8/2017	8:10:50 AM	CM15111015	7/8/2017	7:25:50 AM	3	-8.56	22.3	63	734	
2535 UW TEE POST TC.txt	7/8/2017	8:25:50 AM	CM15111015	7/8/2017	7:25:50 AM	4	-9.37	22.4	61	734	
2535 UW TEE POST TC.txt	7/8/2017	8:40:50 AM	CM15111015	7/8/2017	7:25:50 AM	5	-9.59	22.4	61	734	
2535 UW TEE POST TC.txt	7/8/2017	8:55:50 AM	CM15111015	7/8/2017	7:25:50 AM	6	-9.19	22.4	61	734	
2535 UW TEE POST TC.txt	7/8/2017	9:10:50 AM	CM15111015	7/8/2017	7:25:50 AM	7	-9.18	22.4	60	734	
2535 UW TEE POST TC.txt	7/8/2017	9:25:50 AM	CM15111015	7/8/2017	7:25:50 AM	8	-9.29	22.6	60	734	
2535 UW TEE POST TC.txt	7/8/2017	9:40:50 AM	CM15111015	7/8/2017	7:25:50 AM	9	-9.06	22.9	61	734	
2535 UW TEE POST TC.txt	7/8/2017	9:55:50 AM	CM15111015	7/8/2017	7:25:50 AM	10	-9.44	24.1	57	736	
2535 UW TEE POST TC.txt	7/8/2017	10:10:50 AM	CM15111015	7/8/2017	7:25:50 AM	11	-10.1	25.4	52	736	
2535 UW TEE POST TC.txt	7/8/2017	10:25:50 AM	CM15111015	7/8/2017	7:25:50 AM	12	-8.79	24.9	55	734	
2535 UW TEE POST TC.txt	7/8/2017	10:40:50 AM	CM15111015	7/8/2017	7:25:50 AM	13	-9.03	24.6	57	734	
2535 UW TEE POST TC.txt	7/8/2017	10:55:50 AM	CM15111015	7/8/2017	7:25:50 AM	14	-10.81	26.6	53	736	
2535 UW TEE POST TC.txt	7/8/2017	11:10:50 AM	CM15111015	7/8/2017	7:25:50 AM	15	-1.95	27.6	48	736	
2535 UW TEE POST TC.txt	7/8/2017	11:25:50 AM	CM15111015	7/8/2017	7:25:50 AM	16	-16.04	29.6	42	736	
2535 UW TEE POST TC.txt	7/8/2017	11:40:50 AM	CM15111015	7/8/2017	7:25:50 AM	17	-15.56	31.4	37	736	
2535 UW TEE POST TC.txt	7/8/2017	11:55:50 AM	CM15111015	7/8/2017	7:25:50 AM	18	-16.35	33.2	34	736	
2535 UW TEE POST TC.txt	7/8/2017	12:10:50 PM	CM15111015	7/8/2017	7:25:50 AM	19	-12.85	34.9	31	736	
2535 UW TEE POST TC.txt	7/8/2017	12:25:50 PM	CM15111015	7/8/2017	7:25:50 AM	20	-15.74	35.4	30	736	
2535 UW TEE POST TC.txt	7/8/2017	12:40:50 PM	CM15111015	7/8/2017	7:25:50 AM	21	49.22	31.4	42	736	
2535 UW TEE POST TC.txt	7/8/2017	12:55:50 PM	CM15111015	7/8/2017	7:25:50 AM	22	9.23	24.1	65	736	
2535 UW TEE POST TC.txt	7/8/2017	1:10:50 PM	CM15111015	7/8/2017	7:25:50 AM	23	-3.21	21.7	76	736	
2535 UW TEE POST TC.txt	7/8/2017	1:25:50 PM	CM15111015	7/8/2017	7:25:50 AM	24	-5.33	23.1	79	734	
2535 UW TEE POST TC.txt	7/8/2017	1:40:50 PM	CM15111015	7/8/2017	7:25:50 AM	25	-8.12	25.9	65	736	

Summary of CAMP Monitoring

Former Sperry Remington Site - North Portion
Elmira, New York

Unit Location	Record Date	Record Time	Unit Serial Number	Start Date	Start Time	Record #	Dust Concentration in µg/m^3	Temp	RHumidity	AtmoPressure in mm/Hg	Notes
2535 UW TEE POST TC.txt	7/8/2017	1:55:50 PM	CM15111015	7/8/2017	7:25:50 AM	26	2.4	26.7	64	736	
2535 UW TEE POST TC.txt	7/8/2017	2:10:50 PM	CM15111015	7/8/2017	7:25:50 AM	27	-6.91	25.4	69	736	
2535 UW TEE POST TC.txt	7/8/2017	2:25:50 PM	CM15111015	7/8/2017	7:25:50 AM	28	-7.39	26.4	68	736	
2535 UW TEE POST TC.txt	7/8/2017	2:40:50 PM	CM15111015	7/8/2017	7:25:50 AM	29	-10.52	28.4	61	736	
2535 UW TEE POST TC.txt	7/8/2017	2:55:50 PM	CM15111015	7/8/2017	7:25:50 AM	30	-12.66	30.8	49	736	
2535 UW TEE POST TC.txt	7/8/2017	3:10:50 PM	CM15111015	7/8/2017	7:25:50 AM	31	-14.08	32.1	43	736	
2535 UW TEE POST TC.txt	7/8/2017	3:25:50 PM	CM15111015	7/8/2017	7:25:50 AM	32	-15.08	33.6	40	736	
2535 UW TEE POST TC.txt	7/8/2017	3:40:50 PM	CM15111015	7/8/2017	7:25:50 AM	33	-15.59	34.8	35	736	
2535 UW TEE POST TC.txt	7/8/2017	3:55:50 PM	CM15111015	7/8/2017	7:25:50 AM	34	-15.57	35.1	33	736	
2535 UW TEE POST TC.txt	7/8/2017	4:10:50 PM	CM15111015	7/8/2017	7:25:50 AM	35	-20.65	34.7	30	736	
2535 UW TEE POST TC.txt	7/8/2017	4:25:50 PM	CM15111015	7/8/2017	7:25:50 AM	36	-13.69	33.2	25	736	
2535 UW TEE POST TC.txt	7/8/2017	4:40:50 PM	CM15111015	7/8/2017	7:25:50 AM	37	-15.98	30.3	25	736	
2535 UW TEE POST TC.txt	7/8/2017	4:55:50 PM	CM15111015	7/8/2017	7:25:50 AM	38	-17.3	27.2	26	736	
2980 DW NE CORNER SP.txt	7/8/2017	7:58:52 AM	CM15111014	7/8/2017	7:43:52 AM	1	5.9	21.1	72	734	
2980 DW NE CORNER SP.txt	7/8/2017	8:13:52 AM	CM15111014	7/8/2017	7:43:52 AM	2	2.48	22.5	68	734	
2980 DW NE CORNER SP.txt	7/8/2017	8:28:52 AM	CM15111014	7/8/2017	7:43:52 AM	3	14.31	22.6	67	734	
2980 DW NE CORNER SP.txt	7/8/2017	8:43:52 AM	CM15111014	7/8/2017	7:43:52 AM	4	3.11	22.7	68	734	
2980 DW NE CORNER SP.txt	7/8/2017	8:58:52 AM	CM15111014	7/8/2017	7:43:52 AM	5	11.97	22.8	67	734	
2980 DW NE CORNER SP.txt	7/8/2017	9:13:52 AM	CM15111014	7/8/2017	7:43:52 AM	6	14.33	22.8	66	734	
2980 DW NE CORNER SP.txt	7/8/2017	9:28:52 AM	CM15111014	7/8/2017	7:43:52 AM	7	3.73	23.1	65	734	
2980 DW NE CORNER SP.txt	7/8/2017	9:43:52 AM	CM15111014	7/8/2017	7:43:52 AM	8	5.06	23.6	65	734	
2980 DW NE CORNER SP.txt	7/8/2017	9:58:52 AM	CM15111014	7/8/2017	7:43:52 AM	9	8.76	24.6	62	734	
2980 DW NE CORNER SP.txt	7/8/2017	10:13:52 AM	CM15111014	7/8/2017	7:43:52 AM	10	12.61	25.1	60	734	
2980 DW NE CORNER SP.txt	7/8/2017	10:28:52 AM	CM15111014	7/8/2017	7:43:52 AM	11	4.02	24.5	63	734	
2980 DW NE CORNER SP.txt	7/8/2017	10:43:52 AM	CM15111014	7/8/2017	7:43:52 AM	12	3.48	24.4	64	734	
2980 DW NE CORNER SP.txt	7/8/2017	10:58:52 AM	CM15111014	7/8/2017	7:43:52 AM	13	5	25.9	61	734	
2980 DW NE CORNER SP.txt	7/8/2017	11:13:52 AM	CM15111014	7/8/2017	7:43:52 AM	14	15.34	26.3	58	734	
2980 DW NE CORNER SP.txt	7/8/2017	11:28:52 AM	CM15111014	7/8/2017	7:43:52 AM	15	5.22	28	51	734	
2980 DW NE CORNER SP.txt	7/8/2017	11:43:52 AM	CM15111014	7/8/2017	7:43:52 AM	16	3.82	29.4	47	734	
2980 DW NE CORNER SP.txt	7/8/2017	11:58:52 AM	CM15111014	7/8/2017	7:43:52 AM	17	3.1	31.2	41	734	
2980 DW NE CORNER SP.txt	7/8/2017	12:13:52 PM	CM15111014	7/8/2017	7:43:52 AM	18	2.1	33.2	37	734	
2980 DW NE CORNER SP.txt	7/8/2017	12:28:52 PM	CM15111014	7/8/2017	7:43:52 AM	19	3.34	33.8	35	736	
2980 DW NE CORNER SP.txt	7/8/2017	12:43:52 PM	CM15111014	7/8/2017	7:43:52 AM	20	17.94	30	47	736	
2980 DW NE CORNER SP.txt	7/8/2017	12:58:52 PM	CM15111014	7/8/2017	7:43:52 AM	21	8.38	23.7	66	736	
2980 DW NE CORNER SP.txt	7/8/2017	1:13:52 PM	CM15111014	7/8/2017	7:43:52 AM	22	2.42	21.7	76	734	
2980 DW NE CORNER SP.txt	7/8/2017	1:28:52 PM	CM15111014	7/8/2017	7:43:52 AM	23	1.48	23.1	79	734	
2980 DW NE CORNER SP.txt	7/8/2017	1:43:52 PM	CM15111014	7/8/2017	7:43:52 AM	24	2.89	26.3	68	736	
2980 DW NE CORNER SP.txt	7/8/2017	1:58:52 PM	CM15111014	7/8/2017	7:43:52 AM	25	5.89	27.3	67	736	
2980 DW NE CORNER SP.txt	7/8/2017	2:13:52 PM	CM15111014	7/8/2017	7:43:52 AM	26	2.96	26.1	72	736	
2980 DW NE CORNER SP.txt	7/8/2017	2:28:52 PM	CM15111014	7/8/2017	7:43:52 AM	27	5.25	26.7	65	736	
2980 DW NE CORNER SP.txt	7/8/2017	2:43:52 PM	CM15111014	7/8/2017	7:43:52 AM	28	4.39	28.7	53	736	
2980 DW NE CORNER SP.txt	7/8/2017	2:58:52 PM	CM15111014	7/8/2017	7:43:52 AM	29	5.05	31.1	43	736	
2980 DW NE CORNER SP.txt	7/8/2017	3:13:52 PM	CM15111014	7/8/2017	7:43:52 AM	30	3.29	31.9	37	736	
2980 DW NE CORNER SP.txt	7/8/2017	3:28:52 PM	CM15111014	7/8/2017	7:43:52 AM	31	3.89	33.5	33	736	
2980 DW NE CORNER SP.txt	7/8/2017	3:43:52 PM	CM15111014	7/8/2017	7:43:52 AM	32	8.2	34.8	29	736	
2980 DW NE CORNER SP.txt	7/8/2017	3:58:52 PM	CM15111014	7/8/2017	7:43:52 AM	33	4.09	35	27	736	
2980 DW NE CORNER SP.txt	7/8/2017	4:13:52 PM	CM15111014	7/8/2017	7:43:52 AM	34	4.34	34.9	27	736	
801 DW NE CORNER TC.txt	7/8/2017	7:42:09 AM	0115249188	7/8/2017	7:27:09 AM	1	-3.58	19.3	69	732	
801 DW NE CORNER TC.txt	7/8/2017	7:57:09 AM	0115249188	7/8/2017	7:27:09 AM	2	1.76	20	70	732	
801 DW NE CORNER TC.txt	7/8/2017	8:12:09 AM	0115249188	7/8/2017	7:27:09 AM	3	-3.71	21.2	66	732	
801 DW NE CORNER TC.txt	7/8/2017	8:27:09 AM	0115249188	7/8/2017	7:27:09 AM	4	-3.67	21.6	65	732	
801 DW NE CORNER TC.txt	7/8/2017	8:42:09 AM	0115249188	7/8/2017	7:27:09 AM	5	49.4	22	63	734	
801 DW NE CORNER TC.txt	7/8/2017	8:57:09 AM	0115249188	7/8/2017	7:27:09 AM	6	28.34	22	63	734	
801 DW NE CORNER TC.txt	7/8/2017	9:12:09 AM	0115249188	7/8/2017	7:27:09 AM	7	47.76	21.9	63	734	
801 DW NE CORNER TC.txt	7/8/2017	9:27:09 AM	0115249188	7/8/2017	7:27:09 AM	8	4.25	22	63	734	
801 DW NE CORNER TC.txt	7/8/2017	9:42:09 AM	0115249188	7/8/2017	7:27:09 AM	9	-1.82	22.5	63	734	
801 DW NE CORNER TC.txt	7/8/2017	9:57:09 AM	0115249188	7/8/2017	7:27:09 AM	10	-3.64	23.3	59	734	
801 DW NE CORNER TC.txt	7/8/2017	10:12:09 AM	0115249188	7/8/2017	7:27:09 AM	11	5.47	24.3	56	734	
801 DW NE CORNER TC.txt	7/8/2017	10:27:09 AM	0115249188	7/8/2017	7:27:09 AM	12	2.14	24.2	56	734	
801 DW NE CORNER TC.txt	7/8/2017	10:42:09 AM	0115249188	7/8/2017	7:27:09 AM	13	3.74	23.7	59	734	
801 DW NE CORNER TC.txt	7/8/2017	10:57:09 AM	0115249188	7/8/2017	7:27:09 AM	14	742.69	24.9	57	734	
801 DW NE CORNER TC.txt	7/8/2017	11:12:09 AM	0115249188	7/8/2017	7:27:09 AM	15	-2.45	25.8	53	734	
801 DW NE CORNER TC.txt	7/8/2017	11:27:09 AM	0115249188	7/8/2017	7:27:09 AM	16	-7.1	26.6	49	734	
801 DW NE CORNER TC.txt	7/8/2017	11:42:09 AM	0115249188	7/8/2017	7:27:09 AM	17	-5.72	28.7	42	732	
801 DW NE CORNER TC.txt	7/8/2017	11:57:09 AM	0115249188	7/8/2017	7:27:09 AM	18	-4.29	29.9	38	732	
801 DW NE CORNER TC.txt	7/8/2017	12:12:09 PM	0115249188	7/8/2017	7:27:09 AM	19	-5.05	31.1	36	732	
801 DW NE CORNER TC.txt	7/8/2017	12:27:09 PM	0115249188	7/8/2017	7:27:09 AM	20	-5.56	32.1	34	732	
801 DW NE CORNER TC.txt	7/8/2017	12:42:09 PM	0115249188	7/8/2017	7:27:09 AM	21	7.5	30.6	40	734	
801 DW NE CORNER TC.txt	7/8/2017	12:57:09 PM	0115249188	7/8/2017	7:27:09 AM	22	1.47	24.7	57	734	
801 DW NE CORNER TC.txt	7/8/2017	1:12:09 PM	0115249188	7/8/2017	7:27:09 AM	23	-3.27	21.7	71	734	
801 DW NE CORNER TC.txt	7/8/2017	1:27:09 PM	0115249188	7/8/2017	7:27:09 AM	24	-3.73	21.6	77	734	
801 DW NE CORNER TC.txt	7/8/2017	1:42:09 PM	0115249188	7/8/2017	7:27:09 AM	25	-4.91	23.9	69	734	
801 DW NE CORNER TC.txt	7/8/2017	1:57:09 PM	0115249188	7/8/2017	7:27:09 AM	26	-2.8	25.3	64	734	
801 DW NE CORNER TC.txt	7/8/2017	2:12:09 PM	0115249188	7/8/2017	7:27:09 AM	27	-4.51	24.6	67	734	
801 DW NE CORNER TC.txt	7/8/2017	2:27:09 PM	0115249188	7/8/2017	7:27:09 AM	28	-4.78	25.3	66	734	
801 DW NE CORNER TC.txt	7/8/2017	2:42:09 PM	0115249188	7/8/2017	7:27:09 AM	29	-5.53	26.6	58	734	
801 DW NE CORNER TC.txt	7/8/2017	2:57:09 PM	0115249188	7/8/2017	7:27:09 AM	30	-6.39	28.8	49	734	
801 DW NE CORNER TC.txt	7/8/2017	3:12:09 PM	0115249188	7/8/2017	7:27:09 AM	31	-5.7	30.2	39	734	
801 DW NE CORNER TC.txt	7/8/2017	3:27:09 PM	0115249188	7/8/2017	7:27:09 AM	32	-5.61	30.9	34	734	
801 DW NE CORNER TC.txt	7/8/2017	3:42:09 PM	0115249188	7/8/2017	7:27:09 AM	33	-6.1	31.7	31	734	
801 DW NE CORNER TC.txt	7/8/2017	3:57:09 PM	0115249188	7/8/2017	7:27:09 AM	34	-6.14	32.1	29	734	
801 DW NE CORNER TC.txt	7/8/2017	4:12:09 PM	0115249188	7/8/2017	7:27:09 AM	35	-6.66	31.9	27	734	
818 DW NW FENCE TC.txt	7/8/2017	7:38:10 AM	0115249311	7/8/2017	7:23:10 AM	1	-3.15	20.7	70	734	
818 DW NW FENCE TC.txt	7/8/2017	7:53:10 AM	0115249311	7/8/2017	7:23:10 AM	2	-3.25	22.8	65	734	
818 DW NW FENCE TC.txt	7/8/2017	8:08:10 AM	0115249311	7/8/2017	7:23:10 AM	3	-0.31	26.5	54	734	
818 DW NW FENCE TC.txt	7/8/2017	8:23:10 AM	0115249311	7/8/2017	7:23:10 AM	4	1.04	26.8	52	734	
818 DW NW FENCE TC.txt	7/8/2017	8:38:10 AM	0115249311	7/8/2017	7:23:10 AM	5	-0.43	26.4	53	734	
818 DW NW FENCE TC.txt	7/8/2017	8:53:10 AM	0115249311	7/8/2017	7:23:10 AM	6	0.72	26.2	54	734	
818 DW NW FENCE TC.txt	7/8/2017	9:08:10 AM	0115249311	7/8/2017	7:23:10 AM	7	0.35	26	54	734	
818 DW NW FENCE TC.txt	7/8/2017	9:23:10 AM	0115249311	7/8/2017	7:23:10 AM	8	1.05	25.9	55	734	
818 DW NW FENCE TC.txt	7/8/2017	9:38:10 AM	0115249311	7/8/2017	7:23:10 AM	9	0.97	26.1	55	734	
818 DW NW FENCE TC.txt	7/8/2017	9:53:10 AM	0115249311	7/8/2017	7:23:10 AM	10	1.82	27.4	51	734	
818 DW NW FENCE TC.txt	7/8/2017	10:08:10 AM	0115249311	7/8/2017	7:23:10 AM	11	4.48	29.2	44	734	
818 DW NW FENCE TC.txt	7/8/2017	10:23:10 AM	0115249311	7/8/2017	7:23:10 AM	12	2.45	28.8	47	734	
818 DW NW FENCE TC.txt	7/8/2017	10:38:10 AM	0115249311	7/8/2017	7:23:10 AM	13	1.15	28.1	49	734	
818 DW NW FENCE TC.txt	7/8/2017	10:53:10 AM	0115249311	7/8/2017	7:23:10 AM	14	1.48	30.2	46	734	
818 DW NW FENCE TC.txt	7/8/2017	11:08:10 AM	0115249311	7/8/2017	7:23:10 AM	15	2.47	31.5	42	734	
818 DW NW FENCE TC.txt	7/8/2017	11:23:10 AM	0115249311	7/8/2017	7:23:10 AM	16	0.92	33	37	734	
818 DW NW FENCE TC.txt	7/8/2017	11:38:10 AM	0115249311	7/8/2017	7:23:10 AM	17	4.77	34.9	33	734	
818 DW NW FENCE TC.txt	7/8/2017	11:53:10 AM	0115249311	7/8/2017	7:23:10 AM	18	-0.05	36.6	31	734	
818 DW NW FENCE TC.txt	7/8/2017	12:08:10 PM	0115249311	7/8/2017	7:23:10 AM	19	0.89	37.7	29	734	
818 DW NW FENCE TC.txt	7/8/2017	12:23:10 PM	0115249311	7/8/2017	7:23:10 AM	20	2.68	38	28	734	
818 DW NW FENCE TC.txt	7/8/2017	12:38:10 PM	0115249311	7/8/2017	7:23:10 AM	21	17.41	33.5	43	736	
818 DW NW FENCE TC.txt	7/8/2017	12:53:10 PM	0115249311	7/8/2017	7:23:10 AM	22	5.85	26	65	736	
818 DW NW FENCE TC.txt	7/8/2017	1:08:10 PM	0115249311	7/8/2017	7:23:10 AM	23	-2.61	22.9	75	734	
818 DW NW FENCE TC.txt	7/8/2017	1:23:10 PM	0115249311	7/8/2017	7:23:10 AM	24	-5.1	23.6	78	734	
PDR 1422 DW NE FENCE SP.txt	7/8/2017	7:58:17 AM	0115249980	7/8/2017	7:43:17 AM	1	0.8	18.4	75	734	
PDR 1422 DW NE FENCE SP.txt	7/8/2017	8:13:17 AM	0115249980	7/8/2017	7:43:17 AM	2	2.67	18.9	73	734	
PDR 1422 DW NE FENCE SP.txt	7/8/2017	8:28:17 AM	0115249980	7/8/2017	7:43:17 AM	3	7.57	19	73	734	
PDR 1422 DW NE FENCE SP.txt	7/8/2017	8:43:17 AM	0115249980	7/8/2017	7:43:17 AM	4	0.62	19.2	72	734	
PDR 1422 DW NE FENCE SP.txt	7/8/2017	8:58:17 AM	0115249980	7/8/2017	7:43:17 AM	5	0.37	19.4	71	734	
PDR 1422 DW NE FENCE SP.txt	7/8/2017	9:13:17 AM	0115249980	7/8/2017	7:43:17 AM	6	6.77	19.7	70	734	
PDR 1422 DW NE FENCE SP.txt	7/8/2017	9:28:17 AM	0115249980	7/8/2017	7:43:17 AM	7	2.82	20	69	734	
PDR 1422 DW NE FENCE SP.txt	7/8/2017	9:43:17 AM	0115249980	7/8/2017	7:43:17 AM	8	12.83	20.2	69	734	
PDR 1422 DW NE FENCE SP.txt	7/8/2017	9:58:17 AM	0115249980	7/8/2017	7:43:17 AM	9	1.76	20.8	66	734	
PDR 1422 DW NE FENCE SP.txt	7/8/2017	10:13:17 AM	0115249980	7/8/2017	7:43:17 AM	10	28.96	21.2	65	734	
PDR 1422 DW NE FENCE SP.txt	7/8/2017	10:28:17 AM	0115249980	7/8/2017	7:43:17 AM	11	0.23	21.1	66	734	
PDR 1422 DW NE FENCE SP.txt	7/8/2017	10:43:17 AM	0115249980	7/8/2017	7:43:17 AM	12	59.8	21	68	734	
PDR 1422 DW NE FENCE SP.txt	7/8/2017	10:58:17 AM	0115249980	7/8/2017	7:43:17 AM	13	-0.32	20.9	69	734	
PDR 1422 DW NE FENCE SP.txt	7/8/2017	11:13:17 AM	0115249980	7/8/2017	7:43:17 AM	14	0.15	21.2	66	734	
PDR 1422 DW NE FENCE SP.txt	7/8/2017	11:28:17 AM	0115249980	7/8/2017	7:43:17 AM	15	-3.79	21.8	62	734	
PDR 1422 DW NE FENCE SP.txt	7/8/2017	11:43:17 AM	0115249980	7/8/2017	7:43:17 AM	16	9.84	22.5	59	734	
PDR 1422 DW NE FENCE SP.txt	7/8/2017	11:58:17 AM	0115249980	7/8/2017	7:43:17 AM	17	3.75	23.2	56	734	
PDR 1422 DW NE FENCE SP.txt	7/8/2017	12:13:17 PM	0115249980	7/8/2017	7:43:17 AM	18	3.75	24.2	52	734	
PDR 1422 DW NE FENCE SP.txt	7/8/2017	12:28:17 PM	0115249980	7/8/2017	7:43:17 AM	19	3.75	24.9	51	734	
PDR 1422 DW NE FENCE SP.txt	7/8/2017	12:43:17 PM	0115249980	7/8/2017	7:43:17 AM	20	19.4	23.3	60	736	
PDR 1422 DW NE FENCE SP.txt	7/8/2017	12:58:17 PM	0115249980	7/8/2017	7:43:17 AM	21	7.94	19.2	82	736	
PDR 1422 DW NE FENCE SP.txt	7/8/2017	1:13:17 PM	0115249980	7/8/2017	7:43:17 AM	22	1.84	18.4	87	736	

Summary of CAMP Monitoring

Beech and Bonaparte

Former Sperry Remington Site - North Portion
Elmira, New York

Unit Location	Record Date	Record Time	Unit Serial Number	Start Date	Start Time	Record #	Dust Concentration in µg/m^3	Temp	RHumidity	AtmoPressure in mm/Hg	Notes
PDR 1422 DW NE FENCE SP.txt	7/8/2017	1:28:17 PM	0115249980	7/8/2017	7:43:17 AM	23	0.99	18.4	88	734	
PDR 1422 DW NE FENCE SP.txt	7/8/2017	1:43:17 PM	0115249980	7/8/2017	7:43:17 AM	24	0.65	19.4	87	734	
PDR 1422 DW NE FENCE SP.txt	7/8/2017	1:58:17 PM	0115249980	7/8/2017	7:43:17 AM	25	3.66	20.6	87	734	
PDR 1422 DW NE FENCE SP.txt	7/8/2017	2:13:17 PM	0115249980	7/8/2017	7:43:17 AM	26	39.82	21	92	734	
PDR 1422 DW NE FENCE SP.txt	7/8/2017	2:28:17 PM	0115249980	7/8/2017	7:43:17 AM	27	0.7	21.8	84	734	
PDR 1422 DW NE FENCE SP.txt	7/8/2017	2:43:17 PM	0115249980	7/8/2017	7:43:17 AM	28	-0.55	22.4	73	734	
PDR 1422 DW NE FENCE SP.txt	7/8/2017	2:58:17 PM	0115249980	7/8/2017	7:43:17 AM	29	-1.61	24.1	61	734	
PDR 1422 DW NE FENCE SP.txt	7/8/2017	3:13:17 PM	0115249980	7/8/2017	7:43:17 AM	30	-2.77	25.3	51	734	
PDR 1422 DW NE FENCE SP.txt	7/8/2017	3:28:17 PM	0115249980	7/8/2017	7:43:17 AM	31	-2.75	26.2	46	734	
PDR 1422 DW NE FENCE SP.txt	7/8/2017	3:43:17 PM	0115249980	7/8/2017	7:43:17 AM	32	-1.81	27.8	41	734	
PDR 1422 DW NE FENCE SP.txt	7/8/2017	3:58:17 PM	0115249980	7/8/2017	7:43:17 AM	33	-2.36	28.6	37	736	
PDR 1422 DW NE FENCE SP.txt	7/8/2017	4:13:17 PM	0115249980	7/8/2017	7:43:17 AM	34	-2.04	28.8	34	736	
1421 DW NW CORNER TC.txt	7/10/2017	7:38:22 AM	0115249975	7/10/2017	7:23:22 AM	1	-1	19.4	55	740	
1421 DW NW CORNER TC.txt	7/10/2017	7:53:22 AM	0115249975	7/10/2017	7:23:22 AM	2	6.86	18.4	59	740	
1421 DW NW CORNER TC.txt	7/10/2017	8:08:22 AM	0115249975	7/10/2017	7:23:22 AM	3	8.3	18.1	63	740	
1421 DW NW CORNER TC.txt	7/10/2017	8:23:22 AM	0115249975	7/10/2017	7:23:22 AM	4	3.1	19	60	740	
1421 DW NW CORNER TC.txt	7/10/2017	8:38:22 AM	0115249975	7/10/2017	7:23:22 AM	5	9.24	20.3	57	740	
1421 DW NW CORNER TC.txt	7/10/2017	8:53:22 AM	0115249975	7/10/2017	7:23:22 AM	6	0.11	21	55	740	
1421 DW NW CORNER TC.txt	7/10/2017	9:08:22 AM	0115249975	7/10/2017	7:23:22 AM	7	-0.01	21.9	53	740	
1421 DW NW CORNER TC.txt	7/10/2017	9:23:22 AM	0115249975	7/10/2017	7:23:22 AM	8	0.77	22.4	52	740	
1421 DW NW CORNER TC.txt	7/10/2017	9:38:22 AM	0115249975	7/10/2017	7:23:22 AM	9	10.79	23.2	50	740	
1421 DW NW CORNER TC.txt	7/10/2017	9:53:22 AM	0115249975	7/10/2017	7:23:22 AM	10	9.22	24.2	47	740	
1421 DW NW CORNER TC.txt	7/10/2017	10:08:22 AM	0115249975	7/10/2017	7:23:22 AM	11	-0.47	25.4	45	740	
1421 DW NW CORNER TC.txt	7/10/2017	10:23:22 AM	0115249975	7/10/2017	7:23:22 AM	12	17.41	26.4	46	740	
1421 DW NW CORNER TC.txt	7/10/2017	10:38:22 AM	0115249975	7/10/2017	7:23:22 AM	13	8.18	26.9	43	740	
1421 DW NW CORNER TC.txt	7/10/2017	10:53:22 AM	0115249975	7/10/2017	7:23:22 AM	14	8.82	27.6	37	740	
1421 DW NW CORNER TC.txt	7/10/2017	11:08:22 AM	0115249975	7/10/2017	7:23:22 AM	15	6.09	27.8	34	740	
1421 DW NW CORNER TC.txt	7/10/2017	11:23:22 AM	0115249975	7/10/2017	7:23:22 AM	16	0.9	28	34	740	
1421 DW NW CORNER TC.txt	7/10/2017	11:38:22 AM	0115249975	7/10/2017	7:23:22 AM	17	2.61	28.1	34	740	
1421 DW NW CORNER TC.txt	7/10/2017	11:53:22 AM	0115249975	7/10/2017	7:23:22 AM	18	2.98	28.4	32	740	
1421 DW NW CORNER TC.txt	7/10/2017	12:08:22 PM	0115249975	7/10/2017	7:23:22 AM	19	6.92	28.6	32	740	
1421 DW NW CORNER TC.txt	7/10/2017	12:23:22 PM	0115249975	7/10/2017	7:23:22 AM	20	-1.58	28.6	31	740	
1421 DW NW CORNER TC.txt	7/10/2017	12:38:22 PM	0115249975	7/10/2017	7:23:22 AM	21	-0.76	28.4	32	740	
1421 DW NW CORNER TC.txt	7/10/2017	12:53:22 PM	0115249975	7/10/2017	7:23:22 AM	22	0.05	28.1	34	740	
1421 DW NW CORNER TC.txt	7/10/2017	1:08:22 PM	0115249975	7/10/2017	7:23:22 AM	23	4.46	28	34	740	
1421 DW NW CORNER TC.txt	7/10/2017	1:23:22 PM	0115249975	7/10/2017	7:23:22 AM	24	15.61	27.5	34	740	
1421 DW NW CORNER TC.txt	7/10/2017	1:38:22 PM	0115249975	7/10/2017	7:23:22 AM	25	12.41	27	35	740	
1421 DW NW CORNER TC.txt	7/10/2017	1:53:22 PM	0115249975	7/10/2017	7:23:22 AM	26	1.91	26.7	38	740	
1421 DW NW CORNER TC.txt	7/10/2017	2:08:22 PM	0115249975	7/10/2017	7:23:22 AM	27	-0.1	26.6	39	740	
1421 DW NW CORNER TC.txt	7/10/2017	2:23:22 PM	0115249975	7/10/2017	7:23:22 AM	28	6.68	26.7	39	740	
1421 DW NW CORNER TC.txt	7/10/2017	2:38:22 PM	0115249975	7/10/2017	7:23:22 AM	29	45.03	27	36	740	
1421 DW NW CORNER TC.txt	7/10/2017	2:53:22 PM	0115249975	7/10/2017	7:23:22 AM	30	-1.34	27.3	36	740	
1421 DW NW CORNER TC.txt	7/10/2017	3:08:22 PM	0115249975	7/10/2017	7:23:22 AM	31	-0.68	27.7	36	740	
1421 DW NW CORNER TC.txt	7/10/2017	3:23:22 PM	0115249975	7/10/2017	7:23:22 AM	32	0.4	27.8	36	740	
1421 DW NW CORNER TC.txt	7/10/2017	3:38:22 PM	0115249975	7/10/2017	7:23:22 AM	33	-1.22	28.3	35	740	
1421 DW NW CORNER TC.txt	7/10/2017	3:53:22 PM	0115249975	7/10/2017	7:23:22 AM	34	0.52	28.6	34	740	
1421 DW NW CORNER TC.txt	7/10/2017	4:08:22 PM	0115249975	7/10/2017	7:23:22 AM	35	1.91	28.4	35	740	
1421 DW NW CORNER TC.txt	7/10/2017	4:23:22 PM	0115249975	7/10/2017	7:23:22 AM	36	3.43	28.6	35	740	
1422 DW NE FENCE SP.txt	7/10/2017	7:57:53 AM	0115249980	7/10/2017	7:42:53 AM	1	-0.86	18	60	740	
1422 DW NE FENCE SP.txt	7/10/2017	8:12:53 AM	0115249980	7/10/2017	7:42:53 AM	2	-1.02	20.2	57	740	
1422 DW NE FENCE SP.txt	7/10/2017	8:27:53 AM	0115249980	7/10/2017	7:42:53 AM	3	-1.13	22.4	51	740	
1422 DW NE FENCE SP.txt	7/10/2017	8:42:53 AM	0115249980	7/10/2017	7:42:53 AM	4	-1.56	23.1	49	740	
1422 DW NE FENCE SP.txt	7/10/2017	8:57:53 AM	0115249980	7/10/2017	7:42:53 AM	5	-1.53	25	45	740	
1422 DW NE FENCE SP.txt	7/10/2017	9:12:53 AM	0115249980	7/10/2017	7:42:53 AM	6	-2.04	27	40	740	
1422 DW NE FENCE SP.txt	7/10/2017	9:27:53 AM	0115249980	7/10/2017	7:42:53 AM	7	1.82	27.4	40	740	
1422 DW NE FENCE SP.txt	7/10/2017	9:42:53 AM	0115249980	7/10/2017	7:42:53 AM	8	0.06	29.2	37	740	
1422 DW NE FENCE SP.txt	7/10/2017	9:57:53 AM	0115249980	7/10/2017	7:42:53 AM	9	-1.78	30.2	35	740	
1422 DW NE FENCE SP.txt	7/10/2017	10:12:53 AM	0115249980	7/10/2017	7:42:53 AM	10	-2.35	31.4	34	740	
1422 DW NE FENCE SP.txt	7/10/2017	10:27:53 AM	0115249980	7/10/2017	7:42:53 AM	11	-2.6	32.9	31	740	
1422 DW NE FENCE SP.txt	7/10/2017	10:42:53 AM	0115249980	7/10/2017	7:42:53 AM	12	-2.91	34.1	28	740	
1422 DW NE FENCE SP.txt	7/10/2017	10:57:53 AM	0115249980	7/10/2017	7:42:53 AM	13	-2.09	34.5	26	740	
1422 DW NE FENCE SP.txt	7/10/2017	11:12:53 AM	0115249980	7/10/2017	7:42:53 AM	14	-3.27	34.4	26	740	
1422 DW NE FENCE SP.txt	7/10/2017	11:27:53 AM	0115249980	7/10/2017	7:42:53 AM	15	-3.45	34.2	27	740	
1422 DW NE FENCE SP.txt	7/10/2017	11:42:53 AM	0115249980	7/10/2017	7:42:53 AM	16	-2.69	35.7	25	740	
1422 DW NE FENCE SP.txt	7/10/2017	11:57:53 AM	0115249980	7/10/2017	7:42:53 AM	17	-3.53	36	23	740	
1422 DW NE FENCE SP.txt	7/10/2017	12:12:53 PM	0115249980	7/10/2017	7:42:53 AM	18	-2.17	34.9	24	740	
1422 DW NE FENCE SP.txt	7/10/2017	12:27:53 PM	0115249980	7/10/2017	7:42:53 AM	19	2.59	33.7	26	740	
1422 DW NE FENCE SP.txt	7/10/2017	12:42:53 PM	0115249980	7/10/2017	7:42:53 AM	20	-3.41	32.3	28	740	
1422 DW NE FENCE SP.txt	7/10/2017	12:57:53 PM	0115249980	7/10/2017	7:42:53 AM	21	-1.29	31.4	30	740	
1422 DW NE FENCE SP.txt	7/10/2017	1:12:53 PM	0115249980	7/10/2017	7:42:53 AM	22	-1.11	31	30	740	
1422 DW NE FENCE SP.txt	7/10/2017	1:27:53 PM	0115249980	7/10/2017	7:42:53 AM	23	-1.22	30.1	31	740	
1422 DW NE FENCE SP.txt	7/10/2017	1:42:53 PM	0115249980	7/10/2017	7:42:53 AM	24	-3.53	29.3	32	740	
1422 DW NE FENCE SP.txt	7/10/2017	1:57:53 PM	0115249980	7/10/2017	7:42:53 AM	25	-3.57	29.1	33	740	
1422 DW NE FENCE SP.txt	7/10/2017	2:12:53 PM	0115249980	7/10/2017	7:42:53 AM	26	-3.74	29.2	33	740	
1422 DW NE FENCE SP.txt	7/10/2017	2:27:53 PM	0115249980	7/10/2017	7:42:53 AM	27	-3.69	29.5	33	740	
1422 DW NE FENCE SP.txt	7/10/2017	2:42:53 PM	0115249980	7/10/2017	7:42:53 AM	28	-1.06	30	32	740	
1422 DW NE FENCE SP.txt	7/10/2017	2:57:53 PM	0115249980	7/10/2017	7:42:53 AM	29	-3.72	30.6	32	740	
1422 DW NE FENCE SP.txt	7/10/2017	3:12:53 PM	0115249980	7/10/2017	7:42:53 AM	30	-3.61	30.8	32	740	
1422 DW NE FENCE SP.txt	7/10/2017	3:27:53 PM	0115249980	7/10/2017	7:42:53 AM	31	-0.73	30.9	32	740	
1422 DW NE FENCE SP.txt	7/10/2017	3:42:53 PM	0115249980	7/10/2017	7:42:53 AM	32	-1.06	31.5	32	740	
1422 DW NE FENCE SP.txt	7/10/2017	3:57:53 PM	0115249980	7/10/2017	7:42:53 AM	33	-1.71	31.7	31	740	
1422 DW NE FENCE SP.txt	7/10/2017	4:12:53 PM	0115249980	7/10/2017	7:42:53 AM	34	-0.93	31.3	32	740	
1422 DW NE FENCE SP.txt	7/10/2017	4:27:53 PM	0115249980	7/10/2017	7:42:53 AM	35	-3.5	31.4	31	740	
1422 DW NE FENCE SP.txt	7/10/2017	4:42:53 PM	0115249980	7/10/2017	7:42:53 AM	36	-0.21	31.2	32	740	
1422 DW NE FENCE SP.txt	7/10/2017	4:57:53 PM	0115249980	7/10/2017	7:42:53 AM	37	-2.83	30.4	33	740	
1428 DW NE CORNER TC.txt	7/10/2017	7:37:28 AM	0115250007	7/10/2017	7:22:28 AM	1	-4.25	19.8	55	740	
1428 DW NE CORNER TC.txt	7/10/2017	7:52:28 AM	0115250007	7/10/2017	7:22:28 AM	2	-4.75	19.3	58	740	
1428 DW NE CORNER TC.txt	7/10/2017	8:07:28 AM	0115250007	7/10/2017	7:22:28 AM	3	-4.65	18.4	62	740	
1428 DW NE CORNER TC.txt	7/10/2017	8:22:28 AM	0115250007	7/10/2017	7:22:28 AM	4	-4.46	18.5	63	740	
1428 DW NE CORNER TC.txt	7/10/2017	8:37:28 AM	0115250007	7/10/2017	7:22:28 AM	5	-4.75	19.8	61	740	
1428 DW NE CORNER TC.txt	7/10/2017	8:52:28 AM	0115250007	7/10/2017	7:22:28 AM	6	-5.28	21.3	57	740	
1428 DW NE CORNER TC.txt	7/10/2017	9:07:28 AM	0115250007	7/10/2017	7:22:28 AM	7	-5.11	23.6	52	742	
1428 DW NE CORNER TC.txt	7/10/2017	9:22:28 AM	0115250007	7/10/2017	7:22:28 AM	8	-6.01	24.9	49	742	
1428 DW NE CORNER TC.txt	7/10/2017	9:37:28 AM	0115250007	7/10/2017	7:22:28 AM	9	-6.12	26.8	46	742	
1428 DW NE CORNER TC.txt	7/10/2017	9:52:28 AM	0115250007	7/10/2017	7:22:28 AM	10	-6.24	28.5	42	742	
1428 DW NE CORNER TC.txt	7/10/2017	10:07:28 AM	0115250007	7/10/2017	7:22:28 AM	11	-6.04	30.6	39	742	
1428 DW NE CORNER TC.txt	7/10/2017	10:22:28 AM	0115250007	7/10/2017	7:22:28 AM	12	-6.72	32.6	36	742	
1428 DW NE CORNER TC.txt	7/10/2017	10:37:28 AM	0115250007	7/10/2017	7:22:28 AM	13	-6.12	32.9	32	742	
1428 DW NE CORNER TC.txt	7/10/2017	10:52:28 AM	0115250007	7/10/2017	7:22:28 AM	14	-6.97	32.3	32	742	
1428 DW NE CORNER TC.txt	7/10/2017	11:07:28 AM	0115250007	7/10/2017	7:22:28 AM	15	-6.69	31	33	742	
1428 DW NE CORNER TC.txt	7/10/2017	11:22:28 AM	0115250007	7/10/2017	7:22:28 AM	16	-5.77	30.3	34	742	
1428 DW NE CORNER TC.txt	7/10/2017	11:37:28 AM	0115250007	7/10/2017	7:22:28 AM	17	-4.97	30.4	34	742	
1428 DW NE CORNER TC.txt	7/10/2017	11:52:28 AM	0115250007	7/10/2017	7:22:28 AM	18	-5.41	30.3	34	742	
1428 DW NE CORNER TC.txt	7/10/2017	12:07:28 PM	0115250007	7/10/2017	7:22:28 AM	19	-6.93	30.2	34	742	
1428 DW NE CORNER TC.txt	7/10/2017	12:22:28 PM	0115250007	7/10/2017	7:22:28 AM	20	-7.49	29.7	34	742	
1428 DW NE CORNER TC.txt	7/10/2017	12:37:28 PM	0115250007	7/10/2017	7:22:28 AM	21	-6.93	29	35	740	
1428 DW NE CORNER TC.txt	7/10/2017	12:52:28 PM	0115250007	7/10/2017	7:22:28 AM	22	-6.91	28.8	37	742	
1428 DW NE CORNER TC.txt	7/10/2017	1:07:28 PM	0115250007	7/10/2017	7:22:28 AM	23	-6.72	29	37	742	
1428 DW NE CORNER TC.txt	7/10/2017	1:22:28 PM	0115250007	7/10/2017	7:22:28 AM	24	-7.26	27.8	37	740	
1428 DW NE CORNER TC.txt	7/10/2017	1:37:28 PM	0115250007	7/10/2017	7:22:28 AM	25	-5.15	27	39	740	
1428 DW NE CORNER TC.txt	7/10/2017	1:52:28 PM	0115250007	7/10/2017	7:22:28 AM	26	-6.85	26.6	39	740	
1428 DW NE CORNER TC.txt	7/10/2017	2:07:28 PM	0115250007	7/10/2017	7:22:28 AM	27	-7.66	26.6	40	740	
1428 DW NE CORNER TC.txt	7/10/2017	2:22:28 PM	0115250007	7/10/2017	7:22:28 AM	28	-4.72	27.1	40	740	
1428 DW NE CORNER TC.txt	7/10/2017	2:37:28 PM	0115250007	7/10/2017	7:22:28 AM	29	-2.83	27.7	38	740	
1428 DW NE CORNER TC.txt	7/10/2017	2:52:28 PM	0115250007	7/10/2017	7:22:28 AM	30	-5.5	28.6	38	740	
1428 DW NE CORNER TC.txt	7/10/2017	3:07:28 PM	0115250007	7/10/2017	7:22:28 AM	31	-5.25	29.9	36	740	
1428 DW NE CORNER TC.txt	7/10/2017	3:22:28 PM	0115250007	7/10/2017	7:22:28 AM	32	-5.26	29.7	36	740	
1428 DW NE CORNER TC.txt	7/10/2017	3:37:28 PM	0115250007	7/10/2017	7:22:28 AM	33	-4.46	30	37	740	
1428 DW NE CORNER TC.txt	7/10/2017	3:52:28 PM	0115250007	7/10/2017	7:22:28 AM	34	-4.09	30.3	36	740	
1428 DW NE CORNER TC.txt	7/10/2017	4:07:28 PM	0115250007	7/10/2017	7:22:28 AM	35	-5.8	29.7	37	740	
1428 DW NE CORNER TC.txt	7/10/2017	4:22:28 PM	0115250007	7/10/2017	7:22:28 AM	36	-6.22	29.5	38	740	
1429 DW CENTER FENCE TC.txt	7/10/2017	7:37:39 AM	0115250009	7/10/2017	7:22:39 AM	1	0.19	18.2	59	742	
1429 DW CENTER FENCE TC.txt	7/10/2017	7:52:39 AM	0115250009	7/10/2017	7:22:39 AM	2	0.09	18.2	60	742	
1429 DW CENTER FENCE TC.txt	7/10/2017	8:07:39 AM	0115250009	7/10/2017	7:22:39 AM	3	-0.34	18	63	742	
1429 DW CENTER FENCE TC.txt	7/10/2017	8:22:39 AM	0115250009	7/10/2017	7:22:39 AM	4	-0.36	18.8	61	742	

Summary of CAMP Monitoring

Beech and Bonaparte

Former Sperry Remington Site - North Portion
Elmira, New York

Unit Location	Record Date	Record Time	Unit Serial Number	Start Date	Start Time	Record #	Dust Concentration in µg/m^3	Temp	RHumidity	AtmoPressure in mm/Hg	Notes
1429 DW CENTER FENCE TC.txt	7/10/2017	8:37:39 AM	0115250009	7/10/2017	7:22:39 AM	5	-1.55	20.2	57	742	
1429 DW CENTER FENCE TC.txt	7/10/2017	8:52:39 AM	0115250009	7/10/2017	7:22:39 AM	6	-2.64	21.6	51	742	
1429 DW CENTER FENCE TC.txt	7/10/2017	9:07:39 AM	0115250009	7/10/2017	7:22:39 AM	7	-2.19	23.7	49	742	
1429 DW CENTER FENCE TC.txt	7/10/2017	9:22:39 AM	0115250009	7/10/2017	7:22:39 AM	8	-5.22	24.8	47	742	
1429 DW CENTER FENCE TC.txt	7/10/2017	9:37:39 AM	0115250009	7/10/2017	7:22:39 AM	9	-6.3	26.5	43	742	
1429 DW CENTER FENCE TC.txt	7/10/2017	9:52:39 AM	0115250009	7/10/2017	7:22:39 AM	10	-7.03	27.8	41	742	
1429 DW CENTER FENCE TC.txt	7/10/2017	10:07:39 AM	0115250009	7/10/2017	7:22:39 AM	11	-8.23	29.7	38	742	
1429 DW CENTER FENCE TC.txt	7/10/2017	10:22:39 AM	0115250009	7/10/2017	7:22:39 AM	12	-9.36	31.5	35	742	
1429 DW CENTER FENCE TC.txt	7/10/2017	10:37:39 AM	0115250009	7/10/2017	7:22:39 AM	13	-6.83	32.1	32	742	
1429 DW CENTER FENCE TC.txt	7/10/2017	10:52:39 AM	0115250009	7/10/2017	7:22:39 AM	14	-3.59	32.7	29	742	
1429 DW CENTER FENCE TC.txt	7/10/2017	11:07:39 AM	0115250009	7/10/2017	7:22:39 AM	15	-3.16	32.3	29	742	
1429 DW CENTER FENCE TC.txt	7/10/2017	11:22:39 AM	0115250009	7/10/2017	7:22:39 AM	16	-1	32	30	742	
1429 DW CENTER FENCE TC.txt	7/10/2017	11:37:39 AM	0115250009	7/10/2017	7:22:39 AM	17	2.32	32.4	29	742	
1429 DW CENTER FENCE TC.txt	7/10/2017	11:52:39 AM	0115250009	7/10/2017	7:22:39 AM	18	5.34	32.6	28	742	
1429 DW CENTER FENCE TC.txt	7/10/2017	12:07:39 PM	0115250009	7/10/2017	7:22:39 AM	19	7.06	32.5	28	742	
1429 DW CENTER FENCE TC.txt	7/10/2017	12:22:39 PM	0115250009	7/10/2017	7:22:39 AM	20	4.72	32.1	28	742	
1429 DW CENTER FENCE TC.txt	7/10/2017	12:37:39 PM	0115250009	7/10/2017	7:22:39 AM	21	5.03	31.5	30	742	
1429 DW CENTER FENCE TC.txt	7/10/2017	12:52:39 PM	0115250009	7/10/2017	7:22:39 AM	22	7.01	31.1	32	742	
1429 DW CENTER FENCE TC.txt	7/10/2017	1:07:39 PM	0115250009	7/10/2017	7:22:39 AM	23	8.79	31.2	31	742	
1429 DW CENTER FENCE TC.txt	7/10/2017	1:22:39 PM	0115250009	7/10/2017	7:22:39 AM	24	37.29	29.7	32	742	
1429 DW CENTER FENCE TC.txt	7/10/2017	1:37:39 PM	0115250009	7/10/2017	7:22:39 AM	25	30.48	28.5	33	742	
1429 DW CENTER FENCE TC.txt	7/10/2017	1:52:39 PM	0115250009	7/10/2017	7:22:39 AM	26	13.02	28.1	34	742	
1429 DW CENTER FENCE TC.txt	7/10/2017	2:07:39 PM	0115250009	7/10/2017	7:22:39 AM	27	5.77	28.1	35	742	
1429 DW CENTER FENCE TC.txt	7/10/2017	2:22:39 PM	0115250009	7/10/2017	7:22:39 AM	28	10.26	28.7	35	742	
1429 DW CENTER FENCE TC.txt	7/10/2017	2:37:39 PM	0115250009	7/10/2017	7:22:39 AM	29	22.46	29.5	34	742	
1429 DW CENTER FENCE TC.txt	7/10/2017	2:52:39 PM	0115250009	7/10/2017	7:22:39 AM	30	5.75	30.6	33	740	
1429 DW CENTER FENCE TC.txt	7/10/2017	3:07:39 PM	0115250009	7/10/2017	7:22:39 AM	31	7.47	31.9	31	740	
1429 DW CENTER FENCE TC.txt	7/10/2017	3:22:39 PM	0115250009	7/10/2017	7:22:39 AM	32	6.01	31.7	31	740	
1429 DW CENTER FENCE TC.txt	7/10/2017	3:37:39 PM	0115250009	7/10/2017	7:22:39 AM	33	9.72	32.6	30	740	
1429 DW CENTER FENCE TC.txt	7/10/2017	3:52:39 PM	0115250009	7/10/2017	7:22:39 AM	34	8.47	32.9	29	740	
1429 DW CENTER FENCE TC.txt	7/10/2017	4:07:39 PM	0115250009	7/10/2017	7:22:39 AM	35	15.34	32.2	31	740	
1429 DW CENTER FENCE TC.txt	7/10/2017	4:22:39 PM	0115250009	7/10/2017	7:22:39 AM	36	5.48	32.3	31	740	
1860 DW NW FENCE SP.txt	7/10/2017	7:59:09 AM	0115250203	7/10/2017	7:44:09 AM	1	-97.7	18.1	63	742	
1860 DW NW FENCE SP.txt	7/10/2017	8:14:09 AM	0115250203	7/10/2017	7:44:09 AM	2	-102.9	18.3	64	742	
1860 DW NW FENCE SP.txt	7/10/2017	8:29:09 AM	0115250203	7/10/2017	7:44:09 AM	3	-115.42	18.5	65	742	
1860 DW NW FENCE SP.txt	7/10/2017	8:44:09 AM	0115250203	7/10/2017	7:44:09 AM	4	-118.22	18.8	64	742	
1860 DW NW FENCE SP.txt	7/10/2017	8:59:09 AM	0115250203	7/10/2017	7:44:09 AM	5	-122.15	19.7	61	742	
1860 DW NW FENCE SP.txt	7/10/2017	9:14:09 AM	0115250203	7/10/2017	7:44:09 AM	6	-123.99	20.7	60	742	
1860 DW NW FENCE SP.txt	7/10/2017	9:29:09 AM	0115250203	7/10/2017	7:44:09 AM	7	-125.24	21	59	742	
1860 DW NW FENCE SP.txt	7/10/2017	9:44:09 AM	0115250203	7/10/2017	7:44:09 AM	8	-126.58	21.1	58	742	
1860 DW NW FENCE SP.txt	7/10/2017	9:59:09 AM	0115250203	7/10/2017	7:44:09 AM	9	-125.32	21.4	59	742	
1860 DW NW FENCE SP.txt	7/10/2017	10:14:09 AM	0115250203	7/10/2017	7:44:09 AM	10	-124.55	21.9	60	742	
1860 DW NW FENCE SP.txt	7/10/2017	10:29:09 AM	0115250203	7/10/2017	7:44:09 AM	11	-129	22.7	56	742	
1860 DW NW FENCE SP.txt	7/10/2017	10:44:09 AM	0115250203	7/10/2017	7:44:09 AM	12	-136.24	23.5	46	742	
1860 DW NW FENCE SP.txt	7/10/2017	10:59:09 AM	0115250203	7/10/2017	7:44:09 AM	13	-137.05	24.2	44	742	
1860 DW NW FENCE SP.txt	7/10/2017	11:14:09 AM	0115250203	7/10/2017	7:44:09 AM	14	-136.1	24.6	43	742	
1860 DW NW FENCE SP.txt	7/10/2017	11:29:09 AM	0115250203	7/10/2017	7:44:09 AM	15	-135.88	25	43	742	
1860 DW NW FENCE SP.txt	7/10/2017	11:44:09 AM	0115250203	7/10/2017	7:44:09 AM	16	-134.12	25.9	41	742	
1860 DW NW FENCE SP.txt	7/10/2017	11:59:09 AM	0115250203	7/10/2017	7:44:09 AM	17	-129.88	26.5	37	742	
1860 DW NW FENCE SP.txt	7/10/2017	12:14:09 PM	0115250203	7/10/2017	7:44:09 AM	18	-126.11	26.7	37	742	
1860 DW NW FENCE SP.txt	7/10/2017	12:29:09 PM	0115250203	7/10/2017	7:44:09 AM	19	-120.8	26.8	37	742	
1860 DW NW FENCE SP.txt	7/10/2017	12:44:09 PM	0115250203	7/10/2017	7:44:09 AM	20	-121.79	26.5	39	742	
1860 DW NW FENCE SP.txt	7/10/2017	12:59:09 PM	0115250203	7/10/2017	7:44:09 AM	21	-120.16	26.5	40	742	
1860 DW NW FENCE SP.txt	7/10/2017	1:14:09 PM	0115250203	7/10/2017	7:44:09 AM	22	-121.55	26.5	38	742	
1860 DW NW FENCE SP.txt	7/10/2017	1:29:09 PM	0115250203	7/10/2017	7:44:09 AM	23	-120.51	26	39	742	
1860 DW NW FENCE SP.txt	7/10/2017	1:44:09 PM	0115250203	7/10/2017	7:44:09 AM	24	-116.63	25.8	40	742	
1860 DW NW FENCE SP.txt	7/10/2017	1:59:09 PM	0115250203	7/10/2017	7:44:09 AM	25	-116.71	25.9	40	742	
1860 DW NW FENCE SP.txt	7/10/2017	2:14:09 PM	0115250203	7/10/2017	7:44:09 AM	26	-116.67	26.3	39	740	
1860 DW NW FENCE SP.txt	7/10/2017	2:29:09 PM	0115250203	7/10/2017	7:44:09 AM	27	-117.31	26.6	38	740	
1860 DW NW FENCE SP.txt	7/10/2017	2:44:09 PM	0115250203	7/10/2017	7:44:09 AM	28	-116.92	27	38	740	
1860 DW NW FENCE SP.txt	7/10/2017	2:59:09 PM	0115250203	7/10/2017	7:44:09 AM	29	-118.19	27.7	37	740	
1860 DW NW FENCE SP.txt	7/10/2017	3:14:09 PM	0115250203	7/10/2017	7:44:09 AM	30	-120.04	28.1	37	740	
1860 DW NW FENCE SP.txt	7/10/2017	3:29:09 PM	0115250203	7/10/2017	7:44:09 AM	31	-118.24	28.3	37	740	
1860 DW NW FENCE SP.txt	7/10/2017	3:44:09 PM	0115250203	7/10/2017	7:44:09 AM	32	-119.24	29.4	35	740	
1860 DW NW FENCE SP.txt	7/10/2017	3:59:09 PM	0115250203	7/10/2017	7:44:09 AM	33	-123.04	29.6	34	740	
1860 DW NW FENCE SP.txt	7/10/2017	4:14:09 PM	0115250203	7/10/2017	7:44:09 AM	34	-119.5	29.7	35	740	
1860 DW NW FENCE SP.txt	7/10/2017	4:29:09 PM	0115250203	7/10/2017	7:44:09 AM	35	-121.43	29.9	34	740	
1860 DW NW FENCE SP.txt	7/10/2017	4:44:09 PM	0115250203	7/10/2017	7:44:09 AM	36	-123.63	29.8	34	740	
1860 DW NW FENCE SP.txt	7/10/2017	4:59:09 PM	0115250203	7/10/2017	7:44:09 AM	37	-122.7	28.8	36	740	
1936 DW NW CORNER SP.txt	7/10/2017	8:00:06 AM	0115250202	7/10/2017	7:45:06 AM	1	0.19	18	64	742	
1936 DW NW CORNER SP.txt	7/10/2017	8:15:06 AM	0115250202	7/10/2017	7:45:06 AM	2	0.92	18.2	65	742	
1936 DW NW CORNER SP.txt	7/10/2017	8:30:06 AM	0115250202	7/10/2017	7:45:06 AM	3	1.49	18.4	66	742	
1936 DW NW CORNER SP.txt	7/10/2017	8:45:06 AM	0115250202	7/10/2017	7:45:06 AM	4	3.96	18.8	65	742	
1936 DW NW CORNER SP.txt	7/10/2017	9:00:06 AM	0115250202	7/10/2017	7:45:06 AM	5	2.22	19.5	64	742	
1936 DW NW CORNER SP.txt	7/10/2017	9:15:06 AM	0115250202	7/10/2017	7:45:06 AM	6	0.18	20.5	60	742	
1936 DW NW CORNER SP.txt	7/10/2017	9:30:06 AM	0115250202	7/10/2017	7:45:06 AM	7	5.3	21.1	59	742	
1936 DW NW CORNER SP.txt	7/10/2017	9:45:06 AM	0115250202	7/10/2017	7:45:06 AM	8	2.57	21.2	58	742	
1936 DW NW CORNER SP.txt	7/10/2017	10:00:06 AM	0115250202	7/10/2017	7:45:06 AM	9	3.76	21.5	59	742	
1936 DW NW CORNER SP.txt	7/10/2017	10:15:06 AM	0115250202	7/10/2017	7:45:06 AM	10	3.29	22.5	57	742	
1936 DW NW CORNER SP.txt	7/10/2017	10:30:06 AM	0115250202	7/10/2017	7:45:06 AM	11	9.52	24.3	52	742	
1936 DW NW CORNER SP.txt	7/10/2017	10:45:06 AM	0115250202	7/10/2017	7:45:06 AM	12	15.99	25.8	43	742	
1936 DW NW CORNER SP.txt	7/10/2017	11:00:06 AM	0115250202	7/10/2017	7:45:06 AM	13	2.84	26.5	41	742	
1936 DW NW CORNER SP.txt	7/10/2017	11:15:06 AM	0115250202	7/10/2017	7:45:06 AM	14	11.32	26.8	40	742	
1936 DW NW CORNER SP.txt	7/10/2017	11:30:06 AM	0115250202	7/10/2017	7:45:06 AM	15	3.61	27.2	41	742	
1936 DW NW CORNER SP.txt	7/10/2017	11:45:06 AM	0115250202	7/10/2017	7:45:06 AM	16	6.08	28.6	38	742	
1936 DW NW CORNER SP.txt	7/10/2017	12:00:06 PM	0115250202	7/10/2017	7:45:06 AM	17	11.73	29.1	35	742	
1936 DW NW CORNER SP.txt	7/10/2017	12:15:06 PM	0115250202	7/10/2017	7:45:06 AM	18	-0.98	28.8	36	742	
1936 DW NW CORNER SP.txt	7/10/2017	12:30:06 PM	0115250202	7/10/2017	7:45:06 AM	19	0.17	28.5	36	742	
1936 DW NW CORNER SP.txt	7/10/2017	12:45:06 PM	0115250202	7/10/2017	7:45:06 AM	20	-0.99	27.9	38	742	
1936 DW NW CORNER SP.txt	7/10/2017	1:00:06 PM	0115250202	7/10/2017	7:45:06 AM	21	3.22	27.8	39	742	
1936 DW NW CORNER SP.txt	7/10/2017	1:15:06 PM	0115250202	7/10/2017	7:45:06 AM	22	2.91	27.5	38	742	
1936 DW NW CORNER SP.txt	7/10/2017	1:30:06 PM	0115250202	7/10/2017	7:45:06 AM	23	8.27	26.6	38	742	
1936 DW NW CORNER SP.txt	7/10/2017	1:45:06 PM	0115250202	7/10/2017	7:45:06 AM	24	10.69	26.2	39	742	
1936 DW NW CORNER SP.txt	7/10/2017	2:00:06 PM	0115250202	7/10/2017	7:45:06 AM	25	0.07	26.2	39	742	
1936 DW NW CORNER SP.txt	7/10/2017	2:15:06 PM	0115250202	7/10/2017	7:45:06 AM	26	0.36	26.5	40	740	
1936 DW NW CORNER SP.txt	7/10/2017	2:30:06 PM	0115250202	7/10/2017	7:45:06 AM	27	-0.02	26.9	40	740	
1936 DW NW CORNER SP.txt	7/10/2017	2:45:06 PM	0115250202	7/10/2017	7:45:06 AM	28	1.34	27.8	39	740	
1936 DW NW CORNER SP.txt	7/10/2017	3:00:06 PM	0115250202	7/10/2017	7:45:06 AM	29	-0.26	28.7	38	740	
1936 DW NW CORNER SP.txt	7/10/2017	3:15:06 PM	0115250202	7/10/2017	7:45:06 AM	30	-0.8	28.9	37	740	
1936 DW NW CORNER SP.txt	7/10/2017	3:30:06 PM	0115250202	7/10/2017	7:45:06 AM	31	-0.57	28.8	38	740	
1936 DW NW CORNER SP.txt	7/10/2017	3:45:06 PM	0115250202	7/10/2017	7:45:06 AM	32	-1.03	29.6	37	740	
1936 DW NW CORNER SP.txt	7/10/2017	4:00:06 PM	0115250202	7/10/2017	7:45:06 AM	33	-0.52	29.7	37	740	
1936 DW NW CORNER SP.txt	7/10/2017	4:15:06 PM	0115250202	7/10/2017	7:45:06 AM	34	-0.05	29.5	38	740	
1936 DW NW CORNER SP.txt	7/10/2017	4:30:06 PM	0115250202	7/10/2017	7:45:06 AM	35	1.39	29.3	37	740	
1936 DW NW CORNER SP.txt	7/10/2017	4:45:06 PM	0115250202	7/10/2017	7:45:06 AM	36	2.78	28.7	38	740	
1936 DW NW CORNER SP.txt	7/10/2017	5:00:06 PM	0115250202	7/10/2017	7:45:06 AM	37	1.46	27.8	40	740	
1954 UW TEE POST SP.txt	7/10/2017	7:55:14 AM	0115250211	7/10/2017	7:40:14 AM	1	-94.01	17.5	64	740	
1954 UW TEE POST SP.txt	7/10/2017	8:10:14 AM	0115250211	7/10/2017	7:40:14 AM	2	-120.68	16.8	67	740	
1954 UW TEE POST SP.txt	7/10/2017	8:25:14 AM	0115250211	7/10/2017	7:40:14 AM	3	-114.37	16.7	70	740	
1954 UW TEE POST SP.txt	7/10/2017	8:40:14 AM	0115250211	7/10/2017	7:40:14 AM	4	-117.16	17.1	69	740	
1954 UW TEE POST SP.txt	7/10/2017	8:55:14 AM	0115250211	7/10/2017	7:40:14 AM	5	-120.98	17.8	67	740	
1954 UW TEE POST SP.txt	7/10/2017	9:10:14 AM	0115250211	7/10/2017	7:40:14 AM	6	-126.65	18.7	65	740	
1954 UW TEE POST SP.txt	7/10/2017	9:25:14 AM	0115250211	7/10/2017	7:40:14 AM	7	-130.99	19.3	63	740	
1954 UW TEE POST SP.txt	7/10/2017	9:40:14 AM	0115250211	7/10/2017	7:40:14 AM	8	-131.76	19.5	63	740	
1954 UW TEE POST SP.txt	7/10/2017	9:55:14 AM	0115250211	7/10/2017	7:40:14 AM	9	-133.85	20	62	740	
1954 UW TEE POST SP.txt	7/10/2017	10:10:14 AM	0115250211	7/10/2017	7:40:14 AM	10	-135.26	20.6	61	740	
1954 UW TEE POST SP.txt	7/10/2017	10:25:14 AM	0115250211	7/10/2017	7:40:14 AM	11	-136.79	21.4	60	740	
1954 UW TEE POST SP.txt	7/10/2017	10:40:14 AM	0115250211	7/10/2017	7:40:14 AM	12	-148.99	22.6	51	740	
1954 UW TEE POST SP.txt	7/10/2017	10:55:14 AM	0115250211	7/10/2017	7:40:14 AM	13	-152.24	24.1	46	740	
1954 UW TEE POST SP.txt	7/10/2017	11:10:14 AM	0115250211	7/10/2017	7:40:14 AM	14	-152.37	25.1	43	740	
1954 UW TEE POST SP.txt	7/10/2017	11:25:14 AM	0115250211	7/10/2017	7:40:14 AM	15	-152.41	25.7	42	740	
1954 UW TEE POST SP.txt	7/10/2017	11:40:14 AM	0115250211	7/10/2017	7:40:14 AM	16	-152.33	27	40	740	
1954 UW TEE POST SP.txt	7/10/2017	11:55:14 AM	0115250211	7/10/2017	7:40:14 AM	17	-152.17	28.8	36	740	
1954 UW TEE POST SP.txt	7/10/2017	12:10:14 PM	0115250211	7/10/2017	7:40:14 AM	18	-152.34	29.2	33	740	
1954 UW TEE POST SP.txt	7/10/2017	12:25:14 PM	0115250211	7/10/2017	7:40:14 AM	19	-152.32	29.1	34	740	
1954 UW TEE POST SP.txt	7/10/2017	12:40:14 PM	0115250211	7/10/2017	7:40:14 AM	20	-152.35	28.3	35	740	
1954 UW TEE POST SP.txt	7/10/2017	12:55:14 PM	0115250211	7/10/2017	7:40:14 AM	21	-152.26	27.9	38	740	
1954 UW TEE POST SP.txt	7/10/2017	1:10:14 PM	0115250211	7/10/2017	7:40:14 AM	22	-152.27	28.1	38	740	

Summary of CAMP Monitoring

Beech and Bonaparte

Former Sperry Remington Site - North Portion
Elmira, New York

Unit Location	Record Date	Record Time	Unit Serial Number	Start Date	Start Time	Record #	Dust Concentration in µg/m^3	Temp	RHumidity	AtmoPressure in mm/Hg	Notes
1954 UW TEE POST SP.txt	7/10/2017	1:25:14 PM	0115250211	7/10/2017	7:40:14 AM	23	-152.18	27.7	36	740	
1954 UW TEE POST SP.txt	7/10/2017	1:40:14 PM	0115250211	7/10/2017	7:40:14 AM	24	-152.32	27.4	36	740	
1954 UW TEE POST SP.txt	7/10/2017	1:55:14 PM	0115250211	7/10/2017	7:40:14 AM	25	-152.27	27.4	37	740	
1954 UW TEE POST SP.txt	7/10/2017	2:10:14 PM	0115250211	7/10/2017	7:40:14 AM	26	-152.32	27.6	37	740	
1954 UW TEE POST SP.txt	7/10/2017	2:25:14 PM	0115250211	7/10/2017	7:40:14 AM	27	-152.28	28	37	740	
1954 UW TEE POST SP.txt	7/10/2017	2:40:14 PM	0115250211	7/10/2017	7:40:14 AM	28	-152.25	28.1	37	740	
1954 UW TEE POST SP.txt	7/10/2017	2:55:14 PM	0115250211	7/10/2017	7:40:14 AM	29	-152.28	28.4	37	740	
1954 UW TEE POST SP.txt	7/10/2017	3:10:14 PM	0115250211	7/10/2017	7:40:14 AM	30	-152.25	28.9	37	740	
1954 UW TEE POST SP.txt	7/10/2017	3:25:14 PM	0115250211	7/10/2017	7:40:14 AM	31	-152.2	29.2	36	740	
1954 UW TEE POST SP.txt	7/10/2017	3:40:14 PM	0115250211	7/10/2017	7:40:14 AM	32	-152.21	29.8	36	740	
1954 UW TEE POST SP.txt	7/10/2017	3:55:14 PM	0115250211	7/10/2017	7:40:14 AM	33	-152.11	30.6	34	740	
1954 UW TEE POST SP.txt	7/10/2017	4:10:14 PM	0115250211	7/10/2017	7:40:14 AM	34	-152.05	30.5	35	740	
1954 UW TEE POST SP.txt	7/10/2017	4:25:14 PM	0115250211	7/10/2017	7:40:14 AM	35	-152.06	31	34	740	
1954 UW TEE POST SP.txt	7/10/2017	4:40:14 PM	0115250211	7/10/2017	7:40:14 AM	36	-152.06	31.2	33	740	
1954 UW TEE POST SP.txt	7/10/2017	4:55:14 PM	0115250211	7/10/2017	7:40:14 AM	37	-152	30.8	34	740	
2535 UW TEE POST TC.txt	7/10/2017	7:40:42 AM	CM15111015	7/10/2017	7:25:42 AM	1	-10.56	20	55	742	
2535 UW TEE POST TC.txt	7/10/2017	7:55:42 AM	CM15111015	7/10/2017	7:25:42 AM	2	-10.93	20.1	54	742	
2535 UW TEE POST TC.txt	7/10/2017	8:10:42 AM	CM15111015	7/10/2017	7:25:42 AM	3	-10.69	20.2	56	742	
2535 UW TEE POST TC.txt	7/10/2017	8:25:42 AM	CM15111015	7/10/2017	7:25:42 AM	4	-11.12	21.6	53	742	
2535 UW TEE POST TC.txt	7/10/2017	8:40:42 AM	CM15111015	7/10/2017	7:25:42 AM	5	-12.1	23.2	49	742	
2535 UW TEE POST TC.txt	7/10/2017	8:55:42 AM	CM15111015	7/10/2017	7:25:42 AM	6	-12.82	24.4	46	742	
2535 UW TEE POST TC.txt	7/10/2017	9:10:42 AM	CM15111015	7/10/2017	7:25:42 AM	7	-12.49	26	43	742	
2535 UW TEE POST TC.txt	7/10/2017	9:25:42 AM	CM15111015	7/10/2017	7:25:42 AM	8	-13.23	26.5	43	742	
2535 UW TEE POST TC.txt	7/10/2017	9:40:42 AM	CM15111015	7/10/2017	7:25:42 AM	9	-13.63	28.3	39	742	
2535 UW TEE POST TC.txt	7/10/2017	9:55:42 AM	CM15111015	7/10/2017	7:25:42 AM	10	-14.16	30.3	36	744	
2535 UW TEE POST TC.txt	7/10/2017	10:10:42 AM	CM15111015	7/10/2017	7:25:42 AM	11	-14.15	32.1	34	744	
2535 UW TEE POST TC.txt	7/10/2017	10:25:42 AM	CM15111015	7/10/2017	7:25:42 AM	12	-15.1	33.4	30	744	
2535 UW TEE POST TC.txt	7/10/2017	10:40:42 AM	CM15111015	7/10/2017	7:25:42 AM	13	-16.3	33.3	28	744	
2535 UW TEE POST TC.txt	7/10/2017	10:55:42 AM	CM15111015	7/10/2017	7:25:42 AM	14	-16.44	33.2	27	744	
2535 UW TEE POST TC.txt	7/10/2017	11:10:42 AM	CM15111015	7/10/2017	7:25:42 AM	15	-15.84	32.1	28	742	
2535 UW TEE POST TC.txt	7/10/2017	11:25:42 AM	CM15111015	7/10/2017	7:25:42 AM	16	-15.44	31.8	28	742	
2535 UW TEE POST TC.txt	7/10/2017	11:40:42 AM	CM15111015	7/10/2017	7:25:42 AM	17	-15.25	32.3	27	742	
2535 UW TEE POST TC.txt	7/10/2017	11:55:42 AM	CM15111015	7/10/2017	7:25:42 AM	18	-14.96	32.5	26	742	
2535 UW TEE POST TC.txt	7/10/2017	12:10:42 PM	CM15111015	7/10/2017	7:25:42 AM	19	-16.11	32.4	26	742	
2535 UW TEE POST TC.txt	7/10/2017	12:25:42 PM	CM15111015	7/10/2017	7:25:42 AM	20	-15.96	31.5	27	742	
2535 UW TEE POST TC.txt	7/10/2017	12:40:42 PM	CM15111015	7/10/2017	7:25:42 AM	21	-15.11	30.8	29	742	
2535 UW TEE POST TC.txt	7/10/2017	12:55:42 PM	CM15111015	7/10/2017	7:25:42 AM	22	-15.53	30.5	30	742	
2535 UW TEE POST TC.txt	7/10/2017	1:10:42 PM	CM15111015	7/10/2017	7:25:42 AM	23	-15.73	30	30	742	
2535 UW TEE POST TC.txt	7/10/2017	1:25:42 PM	CM15111015	7/10/2017	7:25:42 AM	24	-14.91	28.9	31	742	
2535 UW TEE POST TC.txt	7/10/2017	1:40:42 PM	CM15111015	7/10/2017	7:25:42 AM	25	-14.6	28.5	32	742	
2535 UW TEE POST TC.txt	7/10/2017	1:55:42 PM	CM15111015	7/10/2017	7:25:42 AM	26	-15.89	28.5	32	742	
2535 UW TEE POST TC.txt	7/10/2017	2:10:42 PM	CM15111015	7/10/2017	7:25:42 AM	27	-14.67	28.9	33	742	
2535 UW TEE POST TC.txt	7/10/2017	2:25:42 PM	CM15111015	7/10/2017	7:25:42 AM	28	-15.62	29.8	31	742	
2535 UW TEE POST TC.txt	7/10/2017	2:40:42 PM	CM15111015	7/10/2017	7:25:42 AM	29	-15.77	30.3	30	742	
2535 UW TEE POST TC.txt	7/10/2017	2:55:42 PM	CM15111015	7/10/2017	7:25:42 AM	30	-15.55	31.1	30	742	
2535 UW TEE POST TC.txt	7/10/2017	3:10:42 PM	CM15111015	7/10/2017	7:25:42 AM	31	-16.08	31.7	29	742	
2535 UW TEE POST TC.txt	7/10/2017	3:25:42 PM	CM15111015	7/10/2017	7:25:42 AM	32	-15.09	31.6	30	742	
2535 UW TEE POST TC.txt	7/10/2017	3:40:42 PM	CM15111015	7/10/2017	7:25:42 AM	33	-15.95	32.8	28	742	
2535 UW TEE POST TC.txt	7/10/2017	3:55:42 PM	CM15111015	7/10/2017	7:25:42 AM	34	-15.35	33.3	27	742	
2535 UW TEE POST TC.txt	7/10/2017	4:10:42 PM	CM15111015	7/10/2017	7:25:42 AM	35	-15.58	33.1	28	742	
2980 DW NE CORNER SP.txt	7/10/2017	7:57:05 AM	CM15111014	7/10/2017	7:42:05 AM	1	0.39	19.9	59	742	
2980 DW NE CORNER SP.txt	7/10/2017	8:12:05 AM	CM15111014	7/10/2017	7:42:05 AM	2	2.29	20.1	60	742	
2980 DW NE CORNER SP.txt	7/10/2017	8:27:05 AM	CM15111014	7/10/2017	7:42:05 AM	3	0.71	20.8	59	742	
2980 DW NE CORNER SP.txt	7/10/2017	8:42:05 AM	CM15111014	7/10/2017	7:42:05 AM	4	1.13	21.7	57	744	
2980 DW NE CORNER SP.txt	7/10/2017	8:57:05 AM	CM15111014	7/10/2017	7:42:05 AM	5	0.74	23.1	54	744	
2980 DW NE CORNER SP.txt	7/10/2017	9:12:05 AM	CM15111014	7/10/2017	7:42:05 AM	6	-0.52	24.8	50	744	
2980 DW NE CORNER SP.txt	7/10/2017	9:27:05 AM	CM15111014	7/10/2017	7:42:05 AM	7	-0.14	25.7	48	744	
2980 DW NE CORNER SP.txt	7/10/2017	9:42:05 AM	CM15111014	7/10/2017	7:42:05 AM	8	0.96	27	45	744	
2980 DW NE CORNER SP.txt	7/10/2017	9:57:05 AM	CM15111014	7/10/2017	7:42:05 AM	9	-0.59	28.6	43	744	
2980 DW NE CORNER SP.txt	7/10/2017	10:12:05 AM	CM15111014	7/10/2017	7:42:05 AM	10	-0.04	30.1	40	744	
2980 DW NE CORNER SP.txt	7/10/2017	10:27:05 AM	CM15111014	7/10/2017	7:42:05 AM	11	5.64	31.7	36	744	
2980 DW NE CORNER SP.txt	7/10/2017	10:42:05 AM	CM15111014	7/10/2017	7:42:05 AM	12	7.5	31.6	32	744	
2980 DW NE CORNER SP.txt	7/10/2017	10:57:05 AM	CM15111014	7/10/2017	7:42:05 AM	13	8.99	30.7	32	744	
2980 DW NE CORNER SP.txt	7/10/2017	11:12:05 AM	CM15111014	7/10/2017	7:42:05 AM	14	6.06	30.2	34	742	
2980 DW NE CORNER SP.txt	7/10/2017	11:27:05 AM	CM15111014	7/10/2017	7:42:05 AM	15	17.52	30	35	742	
2980 DW NE CORNER SP.txt	7/10/2017	11:42:05 AM	CM15111014	7/10/2017	7:42:05 AM	16	10.7	31.1	33	742	
2980 DW NE CORNER SP.txt	7/10/2017	11:57:05 AM	CM15111014	7/10/2017	7:42:05 AM	17	4.58	31.6	31	742	
2980 DW NE CORNER SP.txt	7/10/2017	12:12:05 PM	CM15111014	7/10/2017	7:42:05 AM	18	1.37	31.4	31	742	
2980 DW NE CORNER SP.txt	7/10/2017	12:27:05 PM	CM15111014	7/10/2017	7:42:05 AM	19	6.53	31.3	31	742	
2980 DW NE CORNER SP.txt	7/10/2017	12:42:05 PM	CM15111014	7/10/2017	7:42:05 AM	20	-1.08	30.7	32	742	
2980 DW NE CORNER SP.txt	7/10/2017	12:57:05 PM	CM15111014	7/10/2017	7:42:05 AM	21	7.5	30.4	35	742	
2980 DW NE CORNER SP.txt	7/10/2017	1:12:05 PM	CM15111014	7/10/2017	7:42:05 AM	22	3.86	30.3	34	742	
2980 DW NE CORNER SP.txt	7/10/2017	1:27:05 PM	CM15111014	7/10/2017	7:42:05 AM	23	6.63	29.3	34	742	
2980 DW NE CORNER SP.txt	7/10/2017	1:42:05 PM	CM15111014	7/10/2017	7:42:05 AM	24	2.85	28.6	36	742	
2980 DW NE CORNER SP.txt	7/10/2017	1:57:05 PM	CM15111014	7/10/2017	7:42:05 AM	25	7.33	28.4	36	742	
2980 DW NE CORNER SP.txt	7/10/2017	2:12:05 PM	CM15111014	7/10/2017	7:42:05 AM	26	-1.39	28.5	36	742	
2980 DW NE CORNER SP.txt	7/10/2017	2:27:05 PM	CM15111014	7/10/2017	7:42:05 AM	27	-1.57	28.9	36	742	
2980 DW NE CORNER SP.txt	7/10/2017	2:42:05 PM	CM15111014	7/10/2017	7:42:05 AM	28	2.37	29.9	35	742	
2980 DW NE CORNER SP.txt	7/10/2017	2:57:05 PM	CM15111014	7/10/2017	7:42:05 AM	29	-1.55	30.9	34	742	
2980 DW NE CORNER SP.txt	7/10/2017	3:12:05 PM	CM15111014	7/10/2017	7:42:05 AM	30	2.84	31.2	34	742	
2980 DW NE CORNER SP.txt	7/10/2017	3:27:05 PM	CM15111014	7/10/2017	7:42:05 AM	31	4.44	30.8	35	742	
2980 DW NE CORNER SP.txt	7/10/2017	3:42:05 PM	CM15111014	7/10/2017	7:42:05 AM	32	2.15	31.1	35	742	
2980 DW NE CORNER SP.txt	7/10/2017	3:57:05 PM	CM15111014	7/10/2017	7:42:05 AM	33	1.18	31.3	34	742	
2980 DW NE CORNER SP.txt	7/10/2017	4:12:05 PM	CM15111014	7/10/2017	7:42:05 AM	34	0.39	30.7	36	742	
2980 DW NE CORNER SP.txt	7/10/2017	4:27:05 PM	CM15111014	7/10/2017	7:42:05 AM	35	-0.16	30.6	36	742	
2980 DW NE CORNER SP.txt	7/10/2017	4:42:05 PM	CM15111014	7/10/2017	7:42:05 AM	36	0.67	29.8	37	742	
2980 DW NE CORNER SP.txt	7/10/2017	4:57:05 PM	CM15111014	7/10/2017	7:42:05 AM	37	-0.56	29	39	740	
818 DW NW FENCE TC.txt	7/10/2017	7:38:11 AM	0115249311	7/10/2017	7:23:11 AM	1	-2.08	21.2	55	742	
818 DW NW FENCE TC.txt	7/10/2017	7:53:11 AM	0115249311	7/10/2017	7:23:11 AM	2	5.4	22.5	52	742	
818 DW NW FENCE TC.txt	7/10/2017	8:08:11 AM	0115249311	7/10/2017	7:23:11 AM	3	4.29	22.6	54	742	
818 DW NW FENCE TC.txt	7/10/2017	8:23:11 AM	0115249311	7/10/2017	7:23:11 AM	4	4.94	24.7	49	742	
818 DW NW FENCE TC.txt	7/10/2017	8:38:11 AM	0115249311	7/10/2017	7:23:11 AM	5	5.88	26.2	46	742	
818 DW NW FENCE TC.txt	7/10/2017	8:53:11 AM	0115249311	7/10/2017	7:23:11 AM	6	10.09	26.9	43	742	
818 DW NW FENCE TC.txt	7/10/2017	9:08:11 AM	0115249311	7/10/2017	7:23:11 AM	7	18.09	27.6	41	742	
818 DW NW FENCE TC.txt	7/10/2017	9:23:11 AM	0115249311	7/10/2017	7:23:11 AM	8	10.1	27.4	42	742	
818 DW NW FENCE TC.txt	7/10/2017	9:38:11 AM	0115249311	7/10/2017	7:23:11 AM	9	7.71	28.8	40	742	
818 DW NW FENCE TC.txt	7/10/2017	9:53:11 AM	0115249311	7/10/2017	7:23:11 AM	10	9.74	30.2	37	742	
818 DW NW FENCE TC.txt	7/10/2017	10:08:11 AM	0115249311	7/10/2017	7:23:11 AM	11	12.07	31.2	36	742	
818 DW NW FENCE TC.txt	7/10/2017	10:23:11 AM	0115249311	7/10/2017	7:23:11 AM	12	9.48	31.9	35	742	
818 DW NW FENCE TC.txt	7/10/2017	10:38:11 AM	0115249311	7/10/2017	7:23:11 AM	13	10.2	32.7	33	742	
818 DW NW FENCE TC.txt	7/10/2017	10:53:11 AM	0115249311	7/10/2017	7:23:11 AM	14	10.56	33.7	29	742	
818 DW NW FENCE TC.txt	7/10/2017	11:08:11 AM	0115249311	7/10/2017	7:23:11 AM	15	11.55	33.3	29	742	
818 DW NW FENCE TC.txt	7/10/2017	11:23:11 AM	0115249311	7/10/2017	7:23:11 AM	16	12.38	33.1	29	742	
818 DW NW FENCE TC.txt	7/10/2017	11:38:11 AM	0115249311	7/10/2017	7:23:11 AM	17	12.22	33.1	29	742	
818 DW NW FENCE TC.txt	7/10/2017	11:53:11 AM	0115249311	7/10/2017	7:23:11 AM	18	12.48	33.3	28	742	
818 DW NW FENCE TC.txt	7/10/2017	12:08:11 PM	0115249311	7/10/2017	7:23:11 AM	19	11.93	33.5	28	742	
818 DW NW FENCE TC.txt	7/10/2017	12:23:11 PM	0115249311	7/10/2017	7:23:11 AM	20	11.73	33.4	27	742	
818 DW NW FENCE TC.txt	7/10/2017	12:38:11 PM	0115249311	7/10/2017	7:23:11 AM	21	12.61	32.7	29	742	
818 DW NW FENCE TC.txt	7/10/2017	12:53:11 PM	0115249311	7/10/2017	7:23:11 AM	22	12.87	32.1	31	742	
818 DW NW FENCE TC.txt	7/10/2017	1:08:11 PM	0115249311	7/10/2017	7:23:11 AM	23	12.73	32	31	742	
818 DW NW FENCE TC.txt	7/10/2017	1:23:11 PM	0115249311	7/10/2017	7:23:11 AM	24	13.91	31.1	31	742	
818 DW NW FENCE TC.txt	7/10/2017	1:38:11 PM	0115249311	7/10/2017	7:23:11 AM	25	23.59	30.5	31	742	
818 DW NW FENCE TC.txt	7/10/2017	1:53:11 PM	0115249311	7/10/2017	7:23:11 AM	26	12.55	30.2	32	742	
818 DW NW FENCE TC.txt	7/10/2017	2:08:11 PM	0115249311	7/10/2017	7:23:11 AM	27	17.38	30.4	33	742	
818 DW NW FENCE TC.txt	7/10/2017	2:23:11 PM	0115249311	7/10/2017	7:23:11 AM	28	14.25	30.9	32	742	
818 DW NW FENCE TC.txt	7/10/2017	2:38:11 PM	0115249311	7/10/2017	7:23:11 AM	29	12.93	31.1	32	742	
818 DW NW FENCE TC.txt	7/10/2017	2:53:11 PM	0115249311	7/10/2017	7:23:11 AM	30	25.53	31.8	32	740	
818 DW NW FENCE TC.txt	7/10/2017	3:08:11 PM	0115249311	7/10/2017	7:23:11 AM	31	16.25	32.1	32	740	
818 DW NW FENCE TC.txt	7/10/2017	3:23:11 PM	0115249311	7/10/2017	7:23:11 AM	32	12.96	32.4	32	740	
818 DW NW FENCE TC.txt	7/10/2017	3:38:11 PM	0115249311	7/10/2017	7:23:11 AM	33	17.16	33.3	30	740	
818 DW NW FENCE TC.txt	7/10/2017	3:53:11 PM	0115249311	7/10/2017	7:23:11 AM	34	12.71	33.4	30	740	
818 DW NW FENCE TC.txt	7/10/2017	4:08:11 PM	0115249311	7/10/2017	7:23:11 AM	35	13.26	33.4	31	740	
2535 UW TEE POST TC.txt	7/11/2017	12:00:00 AM	CM15111015	7/11/2017	7:26:20 AM	5	5.82	24.4	62	740	Calibration test
2535 UW TEE POST TC.txt	7/11/2017	12:00:00 AM	CM15111015	7/11/2017	7:26:20 AM	6	5	25.2	58	740	Calibration test
2535 UW TEE POST TC.txt	7/11/2017	12:00:00 AM	CM15111015	7/11/2017	7:26:20 AM	7	3.93	26.8	54	740	Calibration test

Summary of CAMP Monitoring

Beech and Bonaparte

Former Sperry Remington Site - North Portion
Elmira, New York

Unit Location	Record Date	Record Time	Unit Serial Number	Start Date	Start Time	Record #	Dust Concentration in µg/m^3	Temp	RHumidity	AtmoPressure in mm/Hg	Notes
2535 UW TEE POST TC.txt	7/11/2017	12:00:00 AM	CM15111015	7/11/2017	7:26:20 AM	1	9.81	17.3	78	740	Calibration test
2535 UW TEE POST TC.txt	7/11/2017	12:00:00 AM	CM15111015	7/11/2017	7:26:20 AM	2	7.89	17.5	82	740	Calibration test
2535 UW TEE POST TC.txt	7/11/2017	12:00:00 AM	CM15111015	7/11/2017	7:26:20 AM	3	5.96	18.5	84	740	Calibration test
2535 UW TEE POST TC.txt	7/11/2017	12:00:00 AM	CM15111015	7/11/2017	7:26:20 AM	12	4.33	26.3	55	740	Calibration test
2535 UW TEE POST TC.txt	7/11/2017	12:00:00 AM	CM15111015	7/11/2017	7:26:20 AM	13	14.55	28.3	52	740	Calibration test
2535 UW TEE POST TC.txt	7/11/2017	12:00:00 AM	CM15111015	7/11/2017	7:26:20 AM	14	7.73	29.9	46	740	Calibration test
2535 UW TEE POST TC.txt	7/11/2017	12:00:00 AM	CM15111015	7/11/2017	7:26:20 AM	11	10.14	25.2	58	740	Calibration test
2535 UW TEE POST TC.txt	7/11/2017	12:00:00 AM	CM15111015	7/11/2017	7:26:20 AM	8	4.38	27.5	51	740	Calibration test
2535 UW TEE POST TC.txt	7/11/2017	12:00:00 AM	CM15111015	7/11/2017	7:26:20 AM	9	4.29	26.4	52	740	Calibration test
2535 UW TEE POST TC.txt	7/11/2017	12:00:00 AM	CM15111015	7/11/2017	7:26:20 AM	10	4.52	25.4	57	740	Calibration test
2535 UW TEE POST TC.txt	7/11/2017	12:00:00 AM	CM15111015	7/11/2017	7:26:20 AM	4	5.45	21.8	74	740	Calibration test
1421 DW NW CORNER TC.txt	7/11/2017	7:26:21 AM	0115249975	7/11/2017	7:11:21 AM	1	10.86	18	78	738	
1421 DW NW CORNER TC.txt	7/11/2017	7:41:21 AM	0115249975	7/11/2017	7:11:21 AM	2	9.86	18	82	738	
1421 DW NW CORNER TC.txt	7/11/2017	7:56:21 AM	0115249975	7/11/2017	7:11:21 AM	3	9.17	18.1	85	738	
1421 DW NW CORNER TC.txt	7/11/2017	8:11:21 AM	0115249975	7/11/2017	7:11:21 AM	4	7.75	19.4	81	738	
1421 DW NW CORNER TC.txt	7/11/2017	8:26:21 AM	0115249975	7/11/2017	7:11:21 AM	5	7.32	21.1	74	738	
1421 DW NW CORNER TC.txt	7/11/2017	8:41:21 AM	0115249975	7/11/2017	7:11:21 AM	6	7.6	21.9	70	738	
1421 DW NW CORNER TC.txt	7/11/2017	8:56:21 AM	0115249975	7/11/2017	7:11:21 AM	7	7.72	22.4	69	738	
1421 DW NW CORNER TC.txt	7/11/2017	9:11:21 AM	0115249975	7/11/2017	7:11:21 AM	8	10.56	23.2	65	738	
1421 DW NW CORNER TC.txt	7/11/2017	9:26:21 AM	0115249975	7/11/2017	7:11:21 AM	9	10.89	23.2	65	738	
1421 DW NW CORNER TC.txt	7/11/2017	9:41:21 AM	0115249975	7/11/2017	7:11:21 AM	10	7.1	22.7	67	738	
1421 DW NW CORNER TC.txt	7/11/2017	9:56:21 AM	0115249975	7/11/2017	7:11:21 AM	11	7.25	22.4	69	738	
1421 DW NW CORNER TC.txt	7/11/2017	10:11:21 AM	0115249975	7/11/2017	7:11:21 AM	12	6.83	22.8	66	738	
1421 DW NW CORNER TC.txt	7/11/2017	10:26:21 AM	0115249975	7/11/2017	7:11:21 AM	13	7.75	23.7	65	738	
1421 DW NW CORNER TC.txt	7/11/2017	10:41:21 AM	0115249975	7/11/2017	7:11:21 AM	14	10.39	24.9	59	738	
1421 DW NW CORNER TC.txt	7/11/2017	10:56:21 AM	0115249975	7/11/2017	7:11:21 AM	15	11.32	25.5	58	738	
1421 DW NW CORNER TC.txt	7/11/2017	11:11:21 AM	0115249975	7/11/2017	7:11:21 AM	16	10.02	25.9	57	738	
1421 DW NW CORNER TC.txt	7/11/2017	11:26:21 AM	0115249975	7/11/2017	7:11:21 AM	17	11.57	26.1	55	738	
1421 DW NW CORNER TC.txt	7/11/2017	11:41:21 AM	0115249975	7/11/2017	7:11:21 AM	18	9.49	26.7	55	738	
1421 DW NW CORNER TC.txt	7/11/2017	11:56:21 AM	0115249975	7/11/2017	7:11:21 AM	19	9.25	26.6	57	738	
1421 DW NW CORNER TC.txt	7/11/2017	12:11:21 PM	0115249975	7/11/2017	7:11:21 AM	20	10.4	26.7	56	738	
1421 DW NW CORNER TC.txt	7/11/2017	12:26:21 PM	0115249975	7/11/2017	7:11:21 AM	21	11.45	26.4	57	738	
1421 DW NW CORNER TC.txt	7/11/2017	12:41:21 PM	0115249975	7/11/2017	7:11:21 AM	22	12.74	26.2	57	738	
1421 DW NW CORNER TC.txt	7/11/2017	12:56:21 PM	0115249975	7/11/2017	7:11:21 AM	23	13.26	26.1	56	738	
1421 DW NW CORNER TC.txt	7/11/2017	1:11:21 PM	0115249975	7/11/2017	7:11:21 AM	24	13.39	26.7	56	738	
1421 DW NW CORNER TC.txt	7/11/2017	1:26:21 PM	0115249975	7/11/2017	7:11:21 AM	25	13.08	27.2	54	738	
1421 DW NW CORNER TC.txt	7/11/2017	1:41:21 PM	0115249975	7/11/2017	7:11:21 AM	26	13.93	27	54	738	
1421 DW NW CORNER TC.txt	7/11/2017	1:56:21 PM	0115249975	7/11/2017	7:11:21 AM	27	13.87	26.9	54	738	
1422 DW NE FENCE SP.txt	7/11/2017	7:44:22 AM	0115249980	7/11/2017	7:29:22 AM	1	6.56	16.6	81	738	
1422 DW NE FENCE SP.txt	7/11/2017	7:59:22 AM	0115249980	7/11/2017	7:29:22 AM	2	5.13	17.1	87	738	
1422 DW NE FENCE SP.txt	7/11/2017	8:14:22 AM	0115249980	7/11/2017	7:29:22 AM	3	4.29	18.7	82	738	
1422 DW NE FENCE SP.txt	7/11/2017	8:29:22 AM	0115249980	7/11/2017	7:29:22 AM	4	4.11	20.5	76	738	
1422 DW NE FENCE SP.txt	7/11/2017	8:44:22 AM	0115249980	7/11/2017	7:29:22 AM	5	3.67	21.3	72	738	
1422 DW NE FENCE SP.txt	7/11/2017	8:59:22 AM	0115249980	7/11/2017	7:29:22 AM	6	3.76	22.1	69	738	
1422 DW NE FENCE SP.txt	7/11/2017	9:14:22 AM	0115249980	7/11/2017	7:29:22 AM	7	3.79	22.4	66	738	
1422 DW NE FENCE SP.txt	7/11/2017	9:29:22 AM	0115249980	7/11/2017	7:29:22 AM	8	3.59	22.3	68	738	
1422 DW NE FENCE SP.txt	7/11/2017	9:44:22 AM	0115249980	7/11/2017	7:29:22 AM	9	3.45	22.4	67	738	
1422 DW NE FENCE SP.txt	7/11/2017	9:59:22 AM	0115249980	7/11/2017	7:29:22 AM	10	3.92	22.6	66	738	
1422 DW NE FENCE SP.txt	7/11/2017	10:14:22 AM	0115249980	7/11/2017	7:29:22 AM	11	3.25	23	65	738	
1422 DW NE FENCE SP.txt	7/11/2017	10:29:22 AM	0115249980	7/11/2017	7:29:22 AM	12	4.05	23.2	63	738	
1422 DW NE FENCE SP.txt	7/11/2017	10:44:22 AM	0115249980	7/11/2017	7:29:22 AM	13	5.95	23	63	738	
1422 DW NE FENCE SP.txt	7/11/2017	10:59:22 AM	0115249980	7/11/2017	7:29:22 AM	14	6.48	23.1	63	738	
1422 DW NE FENCE SP.txt	7/11/2017	11:14:22 AM	0115249980	7/11/2017	7:29:22 AM	15	6.04	24.1	61	738	
1422 DW NE FENCE SP.txt	7/11/2017	11:29:22 AM	0115249980	7/11/2017	7:29:22 AM	16	5.55	25	59	738	
1422 DW NE FENCE SP.txt	7/11/2017	11:44:22 AM	0115249980	7/11/2017	7:29:22 AM	17	4.85	26	56	738	
1422 DW NE FENCE SP.txt	7/11/2017	11:59:22 AM	0115249980	7/11/2017	7:29:22 AM	18	4.56	26.5	54	738	
1422 DW NE FENCE SP.txt	7/11/2017	12:14:22 PM	0115249980	7/11/2017	7:29:22 AM	19	5.88	26.6	54	738	
1422 DW NE FENCE SP.txt	7/11/2017	12:29:22 PM	0115249980	7/11/2017	7:29:22 AM	20	7.43	25.6	56	738	
1422 DW NE FENCE SP.txt	7/11/2017	12:44:22 PM	0115249980	7/11/2017	7:29:22 AM	21	7.27	25.7	58	738	
1422 DW NE FENCE SP.txt	7/11/2017	12:59:22 PM	0115249980	7/11/2017	7:29:22 AM	22	7.09	27.1	54	738	
1422 DW NE FENCE SP.txt	7/11/2017	1:14:22 PM	0115249980	7/11/2017	7:29:22 AM	23	9.87	28.1	51	738	
1422 DW NE FENCE SP.txt	7/11/2017	1:29:22 PM	0115249980	7/11/2017	7:29:22 AM	24	7.59	28.2	51	738	
1422 DW NE FENCE SP.txt	7/11/2017	1:44:22 PM	0115249980	7/11/2017	7:29:22 AM	25	7.76	27.9	52	738	
1422 DW NE FENCE SP.txt	7/11/2017	1:59:22 PM	0115249980	7/11/2017	7:29:22 AM	26	7.15	28.1	52	738	
1422 DW NE FENCE SP.txt	7/11/2017	2:14:22 PM	0115249980	7/11/2017	7:29:22 AM	27	6.79	29.4	48	738	
1422 DW NE FENCE SP.txt	7/11/2017	2:29:22 PM	0115249980	7/11/2017	7:29:22 AM	28	7.93	29.2	47	738	
1422 DW NE FENCE SP.txt	7/11/2017	2:44:22 PM	0115249980	7/11/2017	7:29:22 AM	29	6.71	28.8	52	738	
1422 DW NE FENCE SP.txt	7/11/2017	2:59:22 PM	0115249980	7/11/2017	7:29:22 AM	30	8.03	29.8	50	738	
1422 DW NE FENCE SP.txt	7/11/2017	3:14:22 PM	0115249980	7/11/2017	7:29:22 AM	31	7.24	31.6	45	738	
1422 DW NE FENCE SP.txt	7/11/2017	3:29:22 PM	0115249980	7/11/2017	7:29:22 AM	32	6.57	32.4	42	738	
1422 DW NE FENCE SP.txt	7/11/2017	3:44:22 PM	0115249980	7/11/2017	7:29:22 AM	33	7.78	31.8	42	738	
1428 DW NE CORNER TC.txt	7/11/2017	7:25:24 AM	0115250007	7/11/2017	7:10:24 AM	1	6.79	17.1	79	738	
1428 DW NE CORNER TC.txt	7/11/2017	7:40:24 AM	0115250007	7/11/2017	7:10:24 AM	2	5.75	17.1	84	738	
1428 DW NE CORNER TC.txt	7/11/2017	7:55:24 AM	0115250007	7/11/2017	7:10:24 AM	3	5.34	17.3	87	738	
1428 DW NE CORNER TC.txt	7/11/2017	8:10:24 AM	0115250007	7/11/2017	7:10:24 AM	4	4.37	18.3	87	738	
1428 DW NE CORNER TC.txt	7/11/2017	8:25:24 AM	0115250007	7/11/2017	7:10:24 AM	5	3.6	20.6	80	740	
1428 DW NE CORNER TC.txt	7/11/2017	8:40:24 AM	0115250007	7/11/2017	7:10:24 AM	6	3.92	22.5	72	740	
1428 DW NE CORNER TC.txt	7/11/2017	8:55:24 AM	0115250007	7/11/2017	7:10:24 AM	7	3.5	24.4	66	740	
1428 DW NE CORNER TC.txt	7/11/2017	9:10:24 AM	0115250007	7/11/2017	7:10:24 AM	8	4.02	25.9	61	740	
1428 DW NE CORNER TC.txt	7/11/2017	9:25:24 AM	0115250007	7/11/2017	7:10:24 AM	9	3.93	25.5	59	740	
1428 DW NE CORNER TC.txt	7/11/2017	9:40:24 AM	0115250007	7/11/2017	7:10:24 AM	10	4.12	24.2	62	740	
1428 DW NE CORNER TC.txt	7/11/2017	9:55:24 AM	0115250007	7/11/2017	7:10:24 AM	11	3.85	24	65	740	
1428 DW NE CORNER TC.txt	7/11/2017	10:10:24 AM	0115250007	7/11/2017	7:10:24 AM	12	3.43	25.2	62	740	
1428 DW NE CORNER TC.txt	7/11/2017	10:25:24 AM	0115250007	7/11/2017	7:10:24 AM	13	3.14	27.4	57	740	
1428 DW NE CORNER TC.txt	7/11/2017	10:40:24 AM	0115250007	7/11/2017	7:10:24 AM	14	6.01	29.3	51	740	
1428 DW NE CORNER TC.txt	7/11/2017	10:55:24 AM	0115250007	7/11/2017	7:10:24 AM	15	6.31	29.8	50	740	
1428 DW NE CORNER TC.txt	7/11/2017	11:10:24 AM	0115250007	7/11/2017	7:10:24 AM	16	6.4	30	48	740	
1428 DW NE CORNER TC.txt	7/11/2017	11:25:24 AM	0115250007	7/11/2017	7:10:24 AM	17	6.54	30.3	48	740	
1428 DW NE CORNER TC.txt	7/11/2017	11:40:24 AM	0115250007	7/11/2017	7:10:24 AM	18	5.09	32.4	43	740	
1428 DW NE CORNER TC.txt	7/11/2017	11:55:24 AM	0115250007	7/11/2017	7:10:24 AM	19	5.66	32.9	42	740	
1428 DW NE CORNER TC.txt	7/11/2017	12:10:24 PM	0115250007	7/11/2017	7:10:24 AM	20	5.47	32.5	43	740	
1428 DW NE CORNER TC.txt	7/11/2017	12:25:24 PM	0115250007	7/11/2017	7:10:24 AM	21	7.23	29.9	48	740	
1428 DW NE CORNER TC.txt	7/11/2017	12:40:24 PM	0115250007	7/11/2017	7:10:24 AM	22	8.43	28.3	53	740	
1428 DW NE CORNER TC.txt	7/11/2017	12:55:24 PM	0115250007	7/11/2017	7:10:24 AM	23	9.07	28.3	54	740	
1428 DW NE CORNER TC.txt	7/11/2017	1:10:24 PM	0115250007	7/11/2017	7:10:24 AM	24	8.06	29.8	51	740	
1428 DW NE CORNER TC.txt	7/11/2017	1:25:24 PM	0115250007	7/11/2017	7:10:24 AM	25	8.48	30.7	48	740	
1428 DW NE CORNER TC.txt	7/11/2017	1:40:24 PM	0115250007	7/11/2017	7:10:24 AM	26	9.31	29.8	50	740	
1428 DW NE CORNER TC.txt	7/11/2017	1:55:24 PM	0115250007	7/11/2017	7:10:24 AM	27	9.96	29.5	52	740	
1429 DW CENTER FENCE TC.txt	7/11/2017	7:25:33 AM	0115250009	7/11/2017	7:10:33 AM	1	5.81	17.3	81	740	
1429 DW CENTER FENCE TC.txt	7/11/2017	7:40:33 AM	0115250009	7/11/2017	7:10:33 AM	2	4.63	17.2	86	740	
1429 DW CENTER FENCE TC.txt	7/11/2017	7:55:33 AM	0115250009	7/11/2017	7:10:33 AM	3	4.01	17.4	90	740	
1429 DW CENTER FENCE TC.txt	7/11/2017	8:10:33 AM	0115250009	7/11/2017	7:10:33 AM	4	2.61	19.3	86	740	
1429 DW CENTER FENCE TC.txt	7/11/2017	8:25:33 AM	0115250009	7/11/2017	7:10:33 AM	5	3.43	22.1	71	740	
1429 DW CENTER FENCE TC.txt	7/11/2017	8:40:33 AM	0115250009	7/11/2017	7:10:33 AM	6	3.85	23.6	64	740	
1429 DW CENTER FENCE TC.txt	7/11/2017	8:55:33 AM	0115250009	7/11/2017	7:10:33 AM	7	3.22	25.1	60	740	
1429 DW CENTER FENCE TC.txt	7/11/2017	9:10:33 AM	0115250009	7/11/2017	7:10:33 AM	8	3.83	26.1	56	740	
1429 DW CENTER FENCE TC.txt	7/11/2017	9:25:33 AM	0115250009	7/11/2017	7:10:33 AM	9	3.4	25.4	57	740	
1429 DW CENTER FENCE TC.txt	7/11/2017	9:40:33 AM	0115250009	7/11/2017	7:10:33 AM	10	3.62	24.3	61	740	
1429 DW CENTER FENCE TC.txt	7/11/2017	9:55:33 AM	0115250009	7/11/2017	7:10:33 AM	11	3.61	24.2	62	740	
1429 DW CENTER FENCE TC.txt	7/11/2017	10:10:33 AM	0115250009	7/11/2017	7:10:33 AM	12	3.21	25.5	59	740	
1429 DW CENTER FENCE TC.txt	7/11/2017	10:25:33 AM	0115250009	7/11/2017	7:10:33 AM	13	2.7	27.6	55	740	
1429 DW CENTER FENCE TC.txt	7/11/2017	10:40:33 AM	0115250009	7/11/2017	7:10:33 AM	14	5.07	29.8	48	740	
1429 DW CENTER FENCE TC.txt	7/11/2017	10:55:33 AM	0115250009	7/11/2017	7:10:33 AM	15	5.73	30.8	46	740	
1429 DW CENTER FENCE TC.txt	7/11/2017	11:10:33 AM	0115250009	7/11/2017	7:10:33 AM	16	6.17	31.3	44	740	
1429 DW CENTER FENCE TC.txt	7/11/2017	11:25:33 AM	0115250009	7/11/2017	7:10:33 AM	17	6.13	31.8	43	740	
1429 DW CENTER FENCE TC.txt	7/11/2017	11:40:33 AM	0115250009	7/11/2017	7:10:33 AM	18	4.62	33.8	37	740	
1429 DW CENTER FENCE TC.txt	7/11/2017	11:55:33 AM	0115250009	7/11/2017	7:10:33 AM	19	5.32	33.6	39	740	
1429 DW CENTER FENCE TC.txt	7/11/2017	12:10:33 PM	0115250009	7/11/2017	7:10:33 AM	20	4.91	33.3	38	740	
1429 DW CENTER FENCE TC.txt	7/11/2017	12:25:33 PM	0115250009	7/11/2017	7:10:33 AM	21	7.07	31	44	740	
1429 DW CENTER FENCE TC.txt	7/11/2017	12:40:33 PM	0115250009	7/11/2017	7:10:33 AM	22	8.41	29.6	48	740	
1429 DW CENTER FENCE TC.txt	7/11/2017	12:55:33 PM	0115250009	7/11/2017	7:10:33 AM	23	8.91	29.6	49	740	
1429 DW CENTER FENCE TC.txt	7/11/2017	1:10:33 PM	0115250009	7/11/2017	7:10:33 AM	24	8	31.3	46	740	
1429 DW CENTER FENCE TC.txt	7/11/2017	1:25:33 PM	0115250009	7/11/2017	7:10:33 AM	25	8.19	32.3	42	740	
1429 DW CENTER FENCE TC.txt	7/11/2017	1:40:33 PM	0115250009	7/11/2017	7:10:33 AM	26	8.8	31.2	45	740	
1429 DW CENTER FENCE TC.txt	7/11/2017	1:55:33 PM	0115250009	7/11/2017	7:10:33 AM	27	9.26	30.9	47	740	
1860 DW NW FENCE SP.txt	7/11/2017	7:45:40 AM	0115250203	7/11/2017	7:30:40 AM	1	6.5	17.1	81	740	
1860 DW NW FENCE SP.txt	7/11/2017	8:00:40 AM	0115250203	7/11/2017	7:30:40 AM	2	4.73	18.7	84	740	
1860 DW NW FENCE SP.txt	7/11/2017	8:15:40 AM	0115250203	7/11/2017	7:30:40 AM	3	5.33	22.6	71	740	

Summary of CAMP Monitoring

Beech and Bonaparte

Former Sperry Remington Site - North Portion
Elmira, New York

Unit Location	Record Date	Record Time	Unit Serial Number	Start Date	Start Time	Record #	Dust Concentration in µg/m^3	Temp	RHumidity	AtmoPressure in mm/Hg	Notes
1860 DW NW FENCE SP.txt	7/11/2017	8:30:40 AM	0115250203	7/11/2017	7:30:40 AM	4	6.29	25.2	61	740	
1860 DW NW FENCE SP.txt	7/11/2017	8:45:40 AM	0115250203	7/11/2017	7:30:40 AM	5	7.01	25	60	740	
1860 DW NW FENCE SP.txt	7/11/2017	9:00:40 AM	0115250203	7/11/2017	7:30:40 AM	6	5.04	26.2	57	740	
1860 DW NW FENCE SP.txt	7/11/2017	9:15:40 AM	0115250203	7/11/2017	7:30:40 AM	7	5.08	27.4	53	740	
1860 DW NW FENCE SP.txt	7/11/2017	9:30:40 AM	0115250203	7/11/2017	7:30:40 AM	8	5.16	26.5	55	740	
1860 DW NW FENCE SP.txt	7/11/2017	9:45:40 AM	0115250203	7/11/2017	7:30:40 AM	9	6.03	25.2	59	740	
1860 DW NW FENCE SP.txt	7/11/2017	10:00:40 AM	0115250203	7/11/2017	7:30:40 AM	10	5.69	24.7	61	740	
1860 DW NW FENCE SP.txt	7/11/2017	10:15:40 AM	0115250203	7/11/2017	7:30:40 AM	11	4.67	25.8	59	738	
1860 DW NW FENCE SP.txt	7/11/2017	10:30:40 AM	0115250203	7/11/2017	7:30:40 AM	12	5.59	28.4	52	738	
1860 DW NW FENCE SP.txt	7/11/2017	10:45:40 AM	0115250203	7/11/2017	7:30:40 AM	13	7.87	30.6	46	738	
1860 DW NW FENCE SP.txt	7/11/2017	11:00:40 AM	0115250203	7/11/2017	7:30:40 AM	14	7.7	31.8	43	738	
1860 DW NW FENCE SP.txt	7/11/2017	11:15:40 AM	0115250203	7/11/2017	7:30:40 AM	15	7.7	32	42	738	
1860 DW NW FENCE SP.txt	7/11/2017	11:30:40 AM	0115250203	7/11/2017	7:30:40 AM	16	7.72	32.7	40	738	
1860 DW NW FENCE SP.txt	7/11/2017	11:45:40 AM	0115250203	7/11/2017	7:30:40 AM	17	6.96	32.8	40	738	
1860 DW NW FENCE SP.txt	7/11/2017	12:00:40 PM	0115250203	7/11/2017	7:30:40 AM	18	6.69	32.3	41	738	
1860 DW NW FENCE SP.txt	7/11/2017	12:15:40 PM	0115250203	7/11/2017	7:30:40 AM	19	8.21	31.5	44	738	
1860 DW NW FENCE SP.txt	7/11/2017	12:30:40 PM	0115250203	7/11/2017	7:30:40 AM	20	9.65	30.2	47	738	
1860 DW NW FENCE SP.txt	7/11/2017	12:45:40 PM	0115250203	7/11/2017	7:30:40 AM	21	9.77	30.3	48	738	
1860 DW NW FENCE SP.txt	7/11/2017	1:00:40 PM	0115250203	7/11/2017	7:30:40 AM	22	10.44	31.3	46	738	
1860 DW NW FENCE SP.txt	7/11/2017	1:15:40 PM	0115250203	7/11/2017	7:30:40 AM	23	10.31	32.2	43	738	
1860 DW NW FENCE SP.txt	7/11/2017	1:30:40 PM	0115250203	7/11/2017	7:30:40 AM	24	10.38	32.1	43	738	
1860 DW NW FENCE SP.txt	7/11/2017	1:45:40 PM	0115250203	7/11/2017	7:30:40 AM	25	10.52	31.2	46	738	
1860 DW NW FENCE SP.txt	7/11/2017	2:00:40 PM	0115250203	7/11/2017	7:30:40 AM	26	9.66	31.5	46	738	
1860 DW NW FENCE SP.txt	7/11/2017	2:15:40 PM	0115250203	7/11/2017	7:30:40 AM	27	9.06	32.9	42	738	
1860 DW NW FENCE SP.txt	7/11/2017	2:30:40 PM	0115250203	7/11/2017	7:30:40 AM	28	10.39	33	42	738	
1860 DW NW FENCE SP.txt	7/11/2017	2:45:40 PM	0115250203	7/11/2017	7:30:40 AM	29	11.09	31.8	45	738	
1860 DW NW FENCE SP.txt	7/11/2017	3:00:40 PM	0115250203	7/11/2017	7:30:40 AM	30	11.91	31.2	48	738	
1860 DW NW FENCE SP.txt	7/11/2017	3:15:40 PM	0115250203	7/11/2017	7:30:40 AM	31	10.32	32.1	46	738	
1860 DW NW FENCE SP.txt	7/11/2017	3:30:40 PM	0115250203	7/11/2017	7:30:40 AM	32	10.06	33.3	43	738	
1860 DW NW FENCE SP.txt	7/11/2017	3:45:40 PM	0115250203	7/11/2017	7:30:40 AM	33	10.75	33.9	42	738	
1936 DW NW CORNER SP.txt	7/11/2017	7:46:08 AM	0115250202	7/11/2017	7:31:08 AM	1	10.13	17.1	83	738	
1936 DW NW CORNER SP.txt	7/11/2017	8:01:08 AM	0115250202	7/11/2017	7:31:08 AM	2	7.16	18.1	89	740	
1936 DW NW CORNER SP.txt	7/11/2017	8:16:08 AM	0115250202	7/11/2017	7:31:08 AM	3	5.65	20.3	80	740	
1936 DW NW CORNER SP.txt	7/11/2017	8:31:08 AM	0115250202	7/11/2017	7:31:08 AM	4	5.99	22.9	71	740	
1936 DW NW CORNER SP.txt	7/11/2017	8:46:08 AM	0115250202	7/11/2017	7:31:08 AM	5	5.52	24	66	740	
1936 DW NW CORNER SP.txt	7/11/2017	9:01:08 AM	0115250202	7/11/2017	7:31:08 AM	6	4.57	25.9	58	740	
1936 DW NW CORNER SP.txt	7/11/2017	9:16:08 AM	0115250202	7/11/2017	7:31:08 AM	7	5.22	26.3	56	740	
1936 DW NW CORNER SP.txt	7/11/2017	9:31:08 AM	0115250202	7/11/2017	7:31:08 AM	8	6.08	25	60	740	
1936 DW NW CORNER SP.txt	7/11/2017	9:46:08 AM	0115250202	7/11/2017	7:31:08 AM	9	5.88	24.2	63	740	
1936 DW NW CORNER SP.txt	7/11/2017	10:01:08 AM	0115250202	7/11/2017	7:31:08 AM	10	5.84	24.6	63	740	
1936 DW NW CORNER SP.txt	7/11/2017	10:16:08 AM	0115250202	7/11/2017	7:31:08 AM	11	5.46	25.8	60	740	
1936 DW NW CORNER SP.txt	7/11/2017	10:31:08 AM	0115250202	7/11/2017	7:31:08 AM	12	8.38	27	57	740	
1936 DW NW CORNER SP.txt	7/11/2017	10:46:08 AM	0115250202	7/11/2017	7:31:08 AM	13	7.4	28.1	53	740	
1936 DW NW CORNER SP.txt	7/11/2017	11:01:08 AM	0115250202	7/11/2017	7:31:08 AM	14	9.08	29.1	49	740	
1936 DW NW CORNER SP.txt	7/11/2017	11:16:08 AM	0115250202	7/11/2017	7:31:08 AM	15	8.05	29.6	49	740	
1936 DW NW CORNER SP.txt	7/11/2017	11:31:08 AM	0115250202	7/11/2017	7:31:08 AM	16	8.43	30.6	48	740	
1936 DW NW CORNER SP.txt	7/11/2017	11:46:08 AM	0115250202	7/11/2017	7:31:08 AM	17	7.82	31.2	45	740	
1936 DW NW CORNER SP.txt	7/11/2017	12:01:08 PM	0115250202	7/11/2017	7:31:08 AM	18	7.64	30.4	47	740	
1936 DW NW CORNER SP.txt	7/11/2017	12:16:08 PM	0115250202	7/11/2017	7:31:08 AM	19	10.67	28.9	50	740	
1936 DW NW CORNER SP.txt	7/11/2017	12:31:08 PM	0115250202	7/11/2017	7:31:08 AM	20	11.05	27.2	55	740	
1936 DW NW CORNER SP.txt	7/11/2017	12:46:08 PM	0115250202	7/11/2017	7:31:08 AM	21	11.2	27.1	56	740	
1936 DW NW CORNER SP.txt	7/11/2017	1:01:08 PM	0115250202	7/11/2017	7:31:08 AM	22	11.09	28.9	53	740	
1936 DW NW CORNER SP.txt	7/11/2017	1:16:08 PM	0115250202	7/11/2017	7:31:08 AM	23	13.95	30.7	49	740	
1936 DW NW CORNER SP.txt	7/11/2017	1:31:08 PM	0115250202	7/11/2017	7:31:08 AM	24	13.2	30.2	49	740	
1936 DW NW CORNER SP.txt	7/11/2017	1:46:08 PM	0115250202	7/11/2017	7:31:08 AM	25	11.65	29.1	53	740	
1936 DW NW CORNER SP.txt	7/11/2017	2:01:08 PM	0115250202	7/11/2017	7:31:08 AM	26	11.69	29.5	53	740	
1936 DW NW CORNER SP.txt	7/11/2017	2:16:08 PM	0115250202	7/11/2017	7:31:08 AM	27	12.28	31.6	47	740	
1936 DW NW CORNER SP.txt	7/11/2017	2:31:08 PM	0115250202	7/11/2017	7:31:08 AM	28	19.29	31	48	740	
1954 UW TEE POST SP.txt	7/11/2017	7:41:20 AM	0115250211	7/11/2017	7:26:20 AM	1	0.89	17.4	80	738	
1954 UW TEE POST SP.txt	7/11/2017	7:56:20 AM	0115250211	7/11/2017	7:26:20 AM	2	-0.32	17.3	86	738	
1954 UW TEE POST SP.txt	7/11/2017	8:11:20 AM	0115250211	7/11/2017	7:26:20 AM	3	0.2	17.5	87	738	
1954 UW TEE POST SP.txt	7/11/2017	8:26:20 AM	0115250211	7/11/2017	7:26:20 AM	4	-0.14	18.2	87	738	
1954 UW TEE POST SP.txt	7/11/2017	8:41:20 AM	0115250211	7/11/2017	7:26:20 AM	5	0.32	19.2	83	738	
1954 UW TEE POST SP.txt	7/11/2017	8:56:20 AM	0115250211	7/11/2017	7:26:20 AM	6	0.53	19.7	79	738	
1954 UW TEE POST SP.txt	7/11/2017	9:11:20 AM	0115250211	7/11/2017	7:26:20 AM	7	0.73	20.1	77	738	
1954 UW TEE POST SP.txt	7/11/2017	9:26:20 AM	0115250211	7/11/2017	7:26:20 AM	8	0.76	20.5	77	738	
1954 UW TEE POST SP.txt	7/11/2017	9:41:20 AM	0115250211	7/11/2017	7:26:20 AM	9	0.86	20.9	77	738	
1954 UW TEE POST SP.txt	7/11/2017	9:56:20 AM	0115250211	7/11/2017	7:26:20 AM	10	1.52	21.4	74	738	
1954 UW TEE POST SP.txt	7/11/2017	10:11:20 AM	0115250211	7/11/2017	7:26:20 AM	11	1.85	22	71	738	
1954 UW TEE POST SP.txt	7/11/2017	10:26:20 AM	0115250211	7/11/2017	7:26:20 AM	12	2.84	22.5	68	738	
1954 UW TEE POST SP.txt	7/11/2017	10:41:20 AM	0115250211	7/11/2017	7:26:20 AM	13	5.53	23.1	68	738	
1954 UW TEE POST SP.txt	7/11/2017	10:56:20 AM	0115250211	7/11/2017	7:26:20 AM	14	6.51	23.6	65	738	
1954 UW TEE POST SP.txt	7/11/2017	11:11:20 AM	0115250211	7/11/2017	7:26:20 AM	15	7.71	24.8	61	738	
1954 UW TEE POST SP.txt	7/11/2017	11:26:20 AM	0115250211	7/11/2017	7:26:20 AM	16	8.64	25.7	58	738	
1954 UW TEE POST SP.txt	7/11/2017	11:41:20 AM	0115250211	7/11/2017	7:26:20 AM	17	8.47	26.5	56	738	
1954 UW TEE POST SP.txt	7/11/2017	11:56:20 AM	0115250211	7/11/2017	7:26:20 AM	18	8.86	27.2	53	738	
1954 UW TEE POST SP.txt	7/11/2017	12:11:20 PM	0115250211	7/11/2017	7:26:20 AM	19	8.31	27.2	54	738	
1954 UW TEE POST SP.txt	7/11/2017	12:26:20 PM	0115250211	7/11/2017	7:26:20 AM	20	9.32	26.4	57	738	
1954 UW TEE POST SP.txt	7/11/2017	12:41:20 PM	0115250211	7/11/2017	7:26:20 AM	21	11.06	26.6	57	738	
1954 UW TEE POST SP.txt	7/11/2017	12:56:20 PM	0115250211	7/11/2017	7:26:20 AM	22	11.87	27.5	55	738	
1954 UW TEE POST SP.txt	7/11/2017	1:11:20 PM	0115250211	7/11/2017	7:26:20 AM	23	10.6	28.6	52	738	
1954 UW TEE POST SP.txt	7/11/2017	1:26:20 PM	0115250211	7/11/2017	7:26:20 AM	24	10.68	29	51	738	
1954 UW TEE POST SP.txt	7/11/2017	1:41:20 PM	0115250211	7/11/2017	7:26:20 AM	25	10	28.7	52	738	
1954 UW TEE POST SP.txt	7/11/2017	1:56:20 PM	0115250211	7/11/2017	7:26:20 AM	26	10.07	28.8	52	738	
1954 UW TEE POST SP.txt	7/11/2017	2:11:20 PM	0115250211	7/11/2017	7:26:20 AM	27	9.65	29.3	51	738	
1954 UW TEE POST SP.txt	7/11/2017	2:26:20 PM	0115250211	7/11/2017	7:26:20 AM	28	9.4	29.5	50	738	
1954 UW TEE POST SP.txt	7/11/2017	2:41:20 PM	0115250211	7/11/2017	7:26:20 AM	29	9.65	29.2	52	738	
1954 UW TEE POST SP.txt	7/11/2017	2:56:20 PM	0115250211	7/11/2017	7:26:20 AM	30	9.91	29	54	738	
1954 UW TEE POST SP.txt	7/11/2017	3:11:20 PM	0115250211	7/11/2017	7:26:20 AM	31	10.03	30.3	50	738	
1954 UW TEE POST SP.txt	7/11/2017	3:26:20 PM	0115250211	7/11/2017	7:26:20 AM	32	9.64	31	48	738	
1954 UW TEE POST SP.txt	7/11/2017	3:41:20 PM	0115250211	7/11/2017	7:26:20 AM	33	8.85	31.4	46	738	
2980 DW NE CORNER SP.txt	7/11/2017	7:43:31 AM	CM15111014	7/11/2017	7:28:31 AM	1	5.56	18.7	80	740	
2980 DW NE CORNER SP.txt	7/11/2017	7:58:31 AM	CM15111014	7/11/2017	7:28:31 AM	2	4.06	19.3	85	740	
2980 DW NE CORNER SP.txt	7/11/2017	8:13:31 AM	CM15111014	7/11/2017	7:28:31 AM	3	3.94	21.1	78	740	
2980 DW NE CORNER SP.txt	7/11/2017	8:28:31 AM	CM15111014	7/11/2017	7:28:31 AM	4	6.45	22.5	74	740	
2980 DW NE CORNER SP.txt	7/11/2017	8:43:31 AM	CM15111014	7/11/2017	7:28:31 AM	5	4.34	23.4	70	740	
2980 DW NE CORNER SP.txt	7/11/2017	8:58:31 AM	CM15111014	7/11/2017	7:28:31 AM	6	4.93	24.2	66	740	
2980 DW NE CORNER SP.txt	7/11/2017	9:13:31 AM	CM15111014	7/11/2017	7:28:31 AM	7	3.8	24.7	64	740	
2980 DW NE CORNER SP.txt	7/11/2017	9:28:31 AM	CM15111014	7/11/2017	7:28:31 AM	8	3.93	24.2	66	740	
2980 DW NE CORNER SP.txt	7/11/2017	9:43:31 AM	CM15111014	7/11/2017	7:28:31 AM	9	3.8	24.1	67	740	
2980 DW NE CORNER SP.txt	7/11/2017	9:58:31 AM	CM15111014	7/11/2017	7:28:31 AM	10	4.68	24.8	66	740	
2980 DW NE CORNER SP.txt	7/11/2017	10:13:31 AM	CM15111014	7/11/2017	7:28:31 AM	11	3.33	25.6	63	740	
2980 DW NE CORNER SP.txt	7/11/2017	10:28:31 AM	CM15111014	7/11/2017	7:28:31 AM	12	3.86	26.3	60	740	
2980 DW NE CORNER SP.txt	7/11/2017	10:43:31 AM	CM15111014	7/11/2017	7:28:31 AM	13	5.93	27.2	58	740	
2980 DW NE CORNER SP.txt	7/11/2017	10:58:31 AM	CM15111014	7/11/2017	7:28:31 AM	14	8.52	28.1	54	740	
2980 DW NE CORNER SP.txt	7/11/2017	11:13:31 AM	CM15111014	7/11/2017	7:28:31 AM	15	7.05	28.5	53	740	
2980 DW NE CORNER SP.txt	7/11/2017	11:28:31 AM	CM15111014	7/11/2017	7:28:31 AM	16	5.91	29.7	50	740	
2980 DW NE CORNER SP.txt	7/11/2017	11:43:31 AM	CM15111014	7/11/2017	7:28:31 AM	17	5.48	31.5	47	740	
2980 DW NE CORNER SP.txt	7/11/2017	11:58:31 AM	CM15111014	7/11/2017	7:28:31 AM	18	6.22	31.3	46	740	
2980 DW NE CORNER SP.txt	7/11/2017	12:13:31 PM	CM15111014	7/11/2017	7:28:31 AM	19	10.45	30.3	48	740	
2980 DW NE CORNER SP.txt	7/11/2017	12:28:31 PM	CM15111014	7/11/2017	7:28:31 AM	20	8.06	28.4	54	740	
2980 DW NE CORNER SP.txt	7/11/2017	12:43:31 PM	CM15111014	7/11/2017	7:28:31 AM	21	8.07	27.9	57	740	
2980 DW NE CORNER SP.txt	7/11/2017	12:58:31 PM	CM15111014	7/11/2017	7:28:31 AM	22	8.33	29.3	54	740	
2980 DW NE CORNER SP.txt	7/11/2017	1:13:31 PM	CM15111014	7/11/2017	7:28:31 AM	23	9.63	31.2	48	740	
2980 DW NE CORNER SP.txt	7/11/2017	1:28:31 PM	CM15111014	7/11/2017	7:28:31 AM	24	8.67	30.9	49	740	
2980 DW NE CORNER SP.txt	7/11/2017	1:43:31 PM	CM15111014	7/11/2017	7:28:31 AM	25	10.89	30.2	51	740	
2980 DW NE CORNER SP.txt	7/11/2017	1:58:31 PM	CM15111014	7/11/2017	7:28:31 AM	26	8.38	30.3	50	740	
2980 DW NE CORNER SP.txt	7/11/2017	2:13:31 PM	CM15111014	7/11/2017	7:28:31 AM	27	8.29	32.6	45	740	
2980 DW NE CORNER SP.txt	7/11/2017	2:28:31 PM	CM15111014	7/11/2017	7:28:31 AM	28	14.75	32.3	45	740	
2980 DW NE CORNER SP.txt	7/11/2017	2:43:31 PM	CM15111014	7/11/2017	7:28:31 AM	29	18.01	31	50	740	
2980 DW NE CORNER SP.txt	7/11/2017	2:58:31 PM	CM15111014	7/11/2017	7:28:31 AM	30	8.65	31.7	50	740	
2980 DW NE CORNER SP.txt	7/11/2017	3:13:31 PM	CM15111014	7/11/2017	7:28:31 AM	31	11.04	34.5	43	740	
2980 DW NE CORNER SP.txt	7/11/2017	3:28:31 PM	CM15111014	7/11/2017	7:28:31 AM	32	7.26	35.4	40	740	
2980 DW NE CORNER SP.txt	7/11/2017	3:43:31 PM	CM15111014	7/11/2017	7:28:31 AM	33	8.81	34.8	41	740	
818 DW NW FENCE TC.txt	7/11/2017	7:27:01 AM	0115249311	7/11/2017	7:12:01 AM	1	-1.04	18.6	78	738	
818 DW NW FENCE TC.txt	7/11/2017	7:42:01 AM	0115249311	7/11/2017	7:12:01 AM	2	-1.81	19.1	80	738	
818 DW NW FENCE TC.txt	7/11/2017	7:57:01 AM	0115249311	7/11/2017	7:12:01 AM	3	-2.47	20	79	740	
818 DW NW FENCE TC.txt	7/11/2017	8:12:01 AM	0115249311	7/11/2017	7:12:01 AM	4	-1.28	23.8	68	740	

Summary of CAMP Monitoring

Beech and Bonaparte

Former Sperry Remington Site - North Portion
Elmira, New York

Unit Location	Record Date	Record Time	Unit Serial Number	Start Date	Start Time	Record #	Dust Concentration in µg/m^3	Temp	RHumidity	AtmoPressure in mm/Hg	Notes
818 DW NW FENCE TC.txt	7/11/2017	8:27:01 AM	0115249311	7/11/2017	7:12:01 AM	5	0.04	26.4	58	740	
818 DW NW FENCE TC.txt	7/11/2017	8:42:01 AM	0115249311	7/11/2017	7:12:01 AM	6	-0.17	26.6	56	740	
818 DW NW FENCE TC.txt	7/11/2017	8:57:01 AM	0115249311	7/11/2017	7:12:01 AM	7	0.4	27.5	54	740	
818 DW NW FENCE TC.txt	7/11/2017	9:12:01 AM	0115249311	7/11/2017	7:12:01 AM	8	1.57	28.3	52	740	
818 DW NW FENCE TC.txt	7/11/2017	9:27:01 AM	0115249311	7/11/2017	7:12:01 AM	9	0.83	27.6	53	740	
818 DW NW FENCE TC.txt	7/11/2017	9:42:01 AM	0115249311	7/11/2017	7:12:01 AM	10	-0.27	26.4	56	738	
818 DW NW FENCE TC.txt	7/11/2017	9:57:01 AM	0115249311	7/11/2017	7:12:01 AM	11	-0.48	25.9	59	738	
818 DW NW FENCE TC.txt	7/11/2017	10:12:01 AM	0115249311	7/11/2017	7:12:01 AM	12	-0.58	26.6	58	738	
818 DW NW FENCE TC.txt	7/11/2017	10:27:01 AM	0115249311	7/11/2017	7:12:01 AM	13	1.15	28.4	53	738	
818 DW NW FENCE TC.txt	7/11/2017	10:42:01 AM	0115249311	7/11/2017	7:12:01 AM	14	2.65	30.1	49	740	
818 DW NW FENCE TC.txt	7/11/2017	10:57:01 AM	0115249311	7/11/2017	7:12:01 AM	15	3.87	31.5	46	740	
818 DW NW FENCE TC.txt	7/11/2017	11:12:01 AM	0115249311	7/11/2017	7:12:01 AM	16	4.26	31.8	44	740	
818 DW NW FENCE TC.txt	7/11/2017	11:27:01 AM	0115249311	7/11/2017	7:12:01 AM	17	5.03	32.5	43	740	
818 DW NW FENCE TC.txt	7/11/2017	11:42:01 AM	0115249311	7/11/2017	7:12:01 AM	18	4.44	32.8	40	740	
818 DW NW FENCE TC.txt	7/11/2017	11:57:01 AM	0115249311	7/11/2017	7:12:01 AM	19	4.9	31.6	45	740	
818 DW NW FENCE TC.txt	7/11/2017	12:12:01 PM	0115249311	7/11/2017	7:12:01 AM	20	4.97	31.3	44	740	
818 DW NW FENCE TC.txt	7/11/2017	12:27:01 PM	0115249311	7/11/2017	7:12:01 AM	21	6.56	30.6	47	740	
818 DW NW FENCE TC.txt	7/11/2017	12:42:01 PM	0115249311	7/11/2017	7:12:01 AM	22	7.54	30.7	48	740	
818 DW NW FENCE TC.txt	7/11/2017	12:57:01 PM	0115249311	7/11/2017	7:12:01 AM	23	7.81	31.3	47	740	
818 DW NW FENCE TC.txt	7/11/2017	1:12:01 PM	0115249311	7/11/2017	7:12:01 AM	24	7.15	32.3	44	740	
818 DW NW FENCE TC.txt	7/11/2017	1:27:01 PM	0115249311	7/11/2017	7:12:01 AM	25	7.42	32.6	43	740	
818 DW NW FENCE TC.txt	7/11/2017	1:42:01 PM	0115249311	7/11/2017	7:12:01 AM	26	8.38	32	45	740	
818 DW NW FENCE TC.txt	7/11/2017	1:57:01 PM	0115249311	7/11/2017	7:12:01 AM	27	7.8	32	45	740	
1421 DW NW CORNER TC.txt	7/14/2017	7:34:11 AM	0115249975	7/14/2017	7:19:11 AM	1	1.48	21.6	76	740	
1421 DW NW CORNER TC.txt	7/14/2017	7:49:11 AM	0115249975	7/14/2017	7:19:11 AM	2	2.09	21.1	81	740	
1421 DW NW CORNER TC.txt	7/14/2017	8:04:11 AM	0115249975	7/14/2017	7:19:11 AM	3	1.87	21	83	740	
1421 DW NW CORNER TC.txt	7/14/2017	8:19:11 AM	0115249975	7/14/2017	7:19:11 AM	4	1.66	21	84	740	
1421 DW NW CORNER TC.txt	7/14/2017	8:34:11 AM	0115249975	7/14/2017	7:19:11 AM	5	2.89	21.2	84	740	
1421 DW NW CORNER TC.txt	7/14/2017	8:49:11 AM	0115249975	7/14/2017	7:19:11 AM	6	3.69	21.6	83	740	
1421 DW NW CORNER TC.txt	7/14/2017	9:04:11 AM	0115249975	7/14/2017	7:19:11 AM	7	4.34	21.9	82	740	
1421 DW NW CORNER TC.txt	7/14/2017	9:19:11 AM	0115249975	7/14/2017	7:19:11 AM	8	6.98	22	82	740	
1421 DW NW CORNER TC.txt	7/14/2017	9:34:11 AM	0115249975	7/14/2017	7:19:11 AM	9	7.49	22.1	83	740	
1421 DW NW CORNER TC.txt	7/14/2017	9:49:11 AM	0115249975	7/14/2017	7:19:11 AM	10	8.61	22.3	83	740	
1421 DW NW CORNER TC.txt	7/14/2017	10:04:11 AM	0115249975	7/14/2017	7:19:11 AM	11	10.69	22.8	81	740	
1421 DW NW CORNER TC.txt	7/14/2017	10:19:11 AM	0115249975	7/14/2017	7:19:11 AM	12	13.62	23.1	80	740	
1421 DW NW CORNER TC.txt	7/14/2017	10:34:11 AM	0115249975	7/14/2017	7:19:11 AM	13	13.44	23.5	79	740	
1421 DW NW CORNER TC.txt	7/14/2017	10:49:11 AM	0115249975	7/14/2017	7:19:11 AM	14	14.1	24	79	740	
1421 DW NW CORNER TC.txt	7/14/2017	11:04:11 AM	0115249975	7/14/2017	7:19:11 AM	15	21.26	24.6	76	740	
1421 DW NW CORNER TC.txt	7/14/2017	11:19:11 AM	0115249975	7/14/2017	7:19:11 AM	16	24.88	25.6	70	740	
1421 DW NW CORNER TC.txt	7/14/2017	11:34:11 AM	0115249975	7/14/2017	7:19:11 AM	17	17.23	26.2	65	740	
1421 DW NW CORNER TC.txt	7/14/2017	11:49:11 AM	0115249975	7/14/2017	7:19:11 AM	18	19.9	26.5	63	740	
1421 DW NW CORNER TC.txt	7/14/2017	12:04:11 PM	0115249975	7/14/2017	7:19:11 AM	19	19.94	27	62	740	
1421 DW NW CORNER TC.txt	7/14/2017	12:19:11 PM	0115249975	7/14/2017	7:19:11 AM	20	16.86	27.5	61	740	
1421 DW NW CORNER TC.txt	7/14/2017	12:34:11 PM	0115249975	7/14/2017	7:19:11 AM	21	17.78	27.8	60	740	
1421 DW NW CORNER TC.txt	7/14/2017	12:49:11 PM	0115249975	7/14/2017	7:19:11 AM	22	15.37	27.9	59	740	
1421 DW NW CORNER TC.txt	7/14/2017	1:04:11 PM	0115249975	7/14/2017	7:19:11 AM	23	8.75	28.3	59	740	
1421 DW NW CORNER TC.txt	7/14/2017	1:19:11 PM	0115249975	7/14/2017	7:19:11 AM	24	19.19	28.8	57	738	
1421 DW NW CORNER TC.txt	7/14/2017	1:34:11 PM	0115249975	7/14/2017	7:19:11 AM	25	12.26	29.4	55	738	
1421 DW NW CORNER TC.txt	7/14/2017	1:49:11 PM	0115249975	7/14/2017	7:19:11 AM	26	8.8	30	53	738	
1421 DW NW CORNER TC.txt	7/14/2017	2:04:11 PM	0115249975	7/14/2017	7:19:11 AM	27	6.9	30.4	51	738	
1421 DW NW CORNER TC.txt	7/14/2017	2:19:11 PM	0115249975	7/14/2017	7:19:11 AM	28	15.67	30.6	50	738	
1421 DW NW CORNER TC.txt	7/14/2017	2:34:11 PM	0115249975	7/14/2017	7:19:11 AM	29	8.32	30.7	50	738	
1421 DW NW CORNER TC.txt	7/14/2017	2:49:11 PM	0115249975	7/14/2017	7:19:11 AM	30	8.79	30.8	50	738	
1421 DW NW CORNER TC.txt	7/14/2017	3:04:11 PM	0115249975	7/14/2017	7:19:11 AM	31	14.37	31	49	738	
1421 DW NW CORNER TC.txt	7/14/2017	3:19:11 PM	0115249975	7/14/2017	7:19:11 AM	32	13.91	31	47	738	
1421 DW NW CORNER TC.txt	7/14/2017	3:34:11 PM	0115249975	7/14/2017	7:19:11 AM	33	9.52	31.3	47	738	
1421 DW NW CORNER TC.txt	7/14/2017	3:49:11 PM	0115249975	7/14/2017	7:19:11 AM	34	26.96	31.7	46	738	
1421 DW NW CORNER TC.txt	7/14/2017	4:04:11 PM	0115249975	7/14/2017	7:19:11 AM	35	22.48	31.8	45	738	
1421 DW NW CORNER TC.txt	7/14/2017	4:19:11 PM	0115249975	7/14/2017	7:19:11 AM	36	6.09	32.1	45	738	
1421 DW NW CORNER TC.txt	7/14/2017	4:34:11 PM	0115249975	7/14/2017	7:19:11 AM	37	21.43	32.2	44	738	
1428 DW NE CORNER TC.txt	7/14/2017	7:33:00 AM	0115250007	7/14/2017	7:18:00 AM	1	0.71	19.7	83	740	
1428 DW NE CORNER TC.txt	7/14/2017	7:48:00 AM	0115250007	7/14/2017	7:18:00 AM	2	0.41	19.7	89	740	
1428 DW NE CORNER TC.txt	7/14/2017	8:03:00 AM	0115250007	7/14/2017	7:18:00 AM	3	0.25	19.9	90	740	
1428 DW NE CORNER TC.txt	7/14/2017	8:18:00 AM	0115250007	7/14/2017	7:18:00 AM	4	0.21	20.1	90	740	
1428 DW NE CORNER TC.txt	7/14/2017	8:33:00 AM	0115250007	7/14/2017	7:18:00 AM	5	0.72	20.5	90	740	
1428 DW NE CORNER TC.txt	7/14/2017	8:48:00 AM	0115250007	7/14/2017	7:18:00 AM	6	1.14	21.1	89	740	
1428 DW NE CORNER TC.txt	7/14/2017	9:03:00 AM	0115250007	7/14/2017	7:18:00 AM	7	1.78	21.5	87	740	
1428 DW NE CORNER TC.txt	7/14/2017	9:18:00 AM	0115250007	7/14/2017	7:18:00 AM	8	2.75	21.7	86	740	
1428 DW NE CORNER TC.txt	7/14/2017	9:33:00 AM	0115250007	7/14/2017	7:18:00 AM	9	3.58	21.9	86	740	
1428 DW NE CORNER TC.txt	7/14/2017	9:48:00 AM	0115250007	7/14/2017	7:18:00 AM	10	4.65	22.4	86	740	
1428 DW NE CORNER TC.txt	7/14/2017	10:03:00 AM	0115250007	7/14/2017	7:18:00 AM	11	6	23.3	83	740	
1428 DW NE CORNER TC.txt	7/14/2017	10:18:00 AM	0115250007	7/14/2017	7:18:00 AM	12	6.93	23.9	81	740	
1428 DW NE CORNER TC.txt	7/14/2017	10:33:00 AM	0115250007	7/14/2017	7:18:00 AM	13	7.94	24.4	79	742	
1428 DW NE CORNER TC.txt	7/14/2017	10:48:00 AM	0115250007	7/14/2017	7:18:00 AM	14	8.87	25.1	77	742	
1428 DW NE CORNER TC.txt	7/14/2017	11:03:00 AM	0115250007	7/14/2017	7:18:00 AM	15	10.14	26.2	74	742	
1428 DW NE CORNER TC.txt	7/14/2017	11:18:00 AM	0115250007	7/14/2017	7:18:00 AM	16	11.22	27.5	68	742	
1428 DW NE CORNER TC.txt	7/14/2017	11:33:00 AM	0115250007	7/14/2017	7:18:00 AM	17	10.97	27.8	64	742	
1428 DW NE CORNER TC.txt	7/14/2017	11:48:00 AM	0115250007	7/14/2017	7:18:00 AM	18	9.42	27.5	64	740	
1428 DW NE CORNER TC.txt	7/14/2017	12:03:00 PM	0115250007	7/14/2017	7:18:00 AM	19	10.02	27.9	63	740	
1428 DW NE CORNER TC.txt	7/14/2017	12:18:00 PM	0115250007	7/14/2017	7:18:00 AM	20	9.32	28.5	61	742	
1428 DW NE CORNER TC.txt	7/14/2017	12:33:00 PM	0115250007	7/14/2017	7:18:00 AM	21	8.35	28.7	61	740	
1428 DW NE CORNER TC.txt	7/14/2017	12:48:00 PM	0115250007	7/14/2017	7:18:00 AM	22	6.82	28.8	61	740	
1428 DW NE CORNER TC.txt	7/14/2017	1:03:00 PM	0115250007	7/14/2017	7:18:00 AM	23	4.99	29.6	60	740	
1428 DW NE CORNER TC.txt	7/14/2017	1:18:00 PM	0115250007	7/14/2017	7:18:00 AM	24	4.61	30.1	57	740	
1428 DW NE CORNER TC.txt	7/14/2017	1:33:00 PM	0115250007	7/14/2017	7:18:00 AM	25	3.97	30.7	55	740	
1428 DW NE CORNER TC.txt	7/14/2017	1:48:00 PM	0115250007	7/14/2017	7:18:00 AM	26	2.81	31.7	53	740	
1428 DW NE CORNER TC.txt	7/14/2017	2:03:00 PM	0115250007	7/14/2017	7:18:00 AM	27	3.31	32.3	50	740	
1428 DW NE CORNER TC.txt	7/14/2017	2:18:00 PM	0115250007	7/14/2017	7:18:00 AM	28	3.99	32.7	48	740	
1428 DW NE CORNER TC.txt	7/14/2017	2:33:00 PM	0115250007	7/14/2017	7:18:00 AM	29	3.3	32.4	48	740	
1428 DW NE CORNER TC.txt	7/14/2017	2:48:00 PM	0115250007	7/14/2017	7:18:00 AM	30	2.84	32.6	48	740	
1428 DW NE CORNER TC.txt	7/14/2017	3:03:00 PM	0115250007	7/14/2017	7:18:00 AM	31	2.77	32.8	47	740	
1428 DW NE CORNER TC.txt	7/14/2017	3:18:00 PM	0115250007	7/14/2017	7:18:00 AM	32	3.31	33	45	740	
1428 DW NE CORNER TC.txt	7/14/2017	3:33:00 PM	0115250007	7/14/2017	7:18:00 AM	33	4.67	33.1	45	740	
1428 DW NE CORNER TC.txt	7/14/2017	3:48:00 PM	0115250007	7/14/2017	7:18:00 AM	34	3.08	33.3	46	740	
1428 DW NE CORNER TC.txt	7/14/2017	4:03:00 PM	0115250007	7/14/2017	7:18:00 AM	35	10.03	33.1	45	738	
1428 DW NE CORNER TC.txt	7/14/2017	4:18:00 PM	0115250007	7/14/2017	7:18:00 AM	36	2.75	33.1	45	738	
1428 DW NE CORNER TC.txt	7/14/2017	4:33:00 PM	0115250007	7/14/2017	7:18:00 AM	37	3.16	32.9	46	738	
1428 DW NE CORNER TC.txt	7/14/2017	4:48:00 PM	0115250007	7/14/2017	7:18:00 AM	38	3.46	32.6	47	738	
1429 DW CENER TC 2.txt	7/14/2017	2:40:58 PM	0115250009	7/14/2017	2:25:58 PM	1	7.95	34.1	41	738	
1429 DW CENER TC 2.txt	7/14/2017	2:55:58 PM	0115250009	7/14/2017	2:25:58 PM	2	9.78	34.6	41	740	
1429 DW CENER TC 2.txt	7/14/2017	3:10:58 PM	0115250009	7/14/2017	2:25:58 PM	3	10.02	34.8	39	738	
1429 DW CENER TC 2.txt	7/14/2017	3:25:58 PM	0115250009	7/14/2017	2:25:58 PM	4	2.94	35.1	38	738	
1429 DW CENER TC 2.txt	7/14/2017	3:40:58 PM	0115250009	7/14/2017	2:25:58 PM	5	22.47	35.7	38	738	
1429 DW CENER TC 2.txt	7/14/2017	3:55:58 PM	0115250009	7/14/2017	2:25:58 PM	6	25.31	35.4	38	738	
1429 DW CENER TC 2.txt	7/14/2017	4:10:58 PM	0115250009	7/14/2017	2:25:58 PM	7	12.89	35.4	37	738	
1429 DW CENER TC 2.txt	7/14/2017	4:25:58 PM	0115250009	7/14/2017	2:25:58 PM	8	4.15	35.3	38	738	
1429 DW CENER TC 2.txt	7/14/2017	4:40:58 PM	0115250009	7/14/2017	2:25:58 PM	9	22.08	34.9	39	738	
1429 DW CENTER TC 1.txt	7/14/2017	7:33:28 AM	0115250009	7/14/2017	7:18:28 AM	1	-1.14	20.6	80	740	
1429 DW CENTER TC 1.txt	7/14/2017	7:48:28 AM	0115250009	7/14/2017	7:18:28 AM	2	-0.92	20.2	86	740	
1429 DW CENTER TC 1.txt	7/14/2017	8:03:28 AM	0115250009	7/14/2017	7:18:28 AM	3	-1	20.2	88	740	
1429 DW CENTER TC 1.txt	7/14/2017	8:18:28 AM	0115250009	7/14/2017	7:18:28 AM	4	-1.05	20.3	88	740	
1429 DW CENTER TC 1.txt	7/14/2017	8:33:28 AM	0115250009	7/14/2017	7:18:28 AM	5	-0.41	20.6	86	740	
1429 DW CENTER TC 1.txt	7/14/2017	8:48:28 AM	0115250009	7/14/2017	7:18:28 AM	6	0.25	21.2	84	740	
1429 DW CENTER TC 1.txt	7/14/2017	9:03:28 AM	0115250009	7/14/2017	7:18:28 AM	7	1.23	21.6	83	740	
1429 DW CENTER TC 1.txt	7/14/2017	9:18:28 AM	0115250009	7/14/2017	7:18:28 AM	8	2.25	21.8	83	740	
1429 DW CENTER TC 1.txt	7/14/2017	9:33:28 AM	0115250009	7/14/2017	7:18:28 AM	9	3.23	22	83	740	
1429 DW CENTER TC 1.txt	7/14/2017	9:48:28 AM	0115250009	7/14/2017	7:18:28 AM	10	4.34	22.6	82	740	
1429 DW CENTER TC 1.txt	7/14/2017	10:03:28 AM	0115250009	7/14/2017	7:18:28 AM	11	5.97	23.5	80	740	
1429 DW CENTER TC 1.txt	7/14/2017	10:18:28 AM	0115250009	7/14/2017	7:18:28 AM	12	6.93	24.1	79	740	
1429 DW CENTER TC 1.txt	7/14/2017	10:33:28 AM	0115250009	7/14/2017	7:18:28 AM	13	7.8	24.4	77	740	
1429 DW CENTER TC 1.txt	7/14/2017	10:48:28 AM	0115250009	7/14/2017	7:18:28 AM	14	8.88	25.2	76	740	
1429 DW CENTER TC 1.txt	7/14/2017	11:03:28 AM	0115250009	7/14/2017	7:18:28 AM	15	11.19	26.4	71	740	
1429 DW CENTER TC 1.txt	7/14/2017	11:18:28 AM	0115250009	7/14/2017	7:18:28 AM	16	11.78	28.4	62	740	
1429 DW CENTER TC 1.txt	7/14/2017	11:33:28 AM	0115250009	7/14/2017	7:18:28 AM	17	11.04	29.1	58	740	
1429 DW CENTER TC 1.txt	7/14/2017	11:48:28 AM	0115250009	7/14/2017	7:18:28 AM	18	10.51	29.1	57	740	

Summary of CAMP Monitoring

Beech and Bonaparte

Former Sperry Remington Site - North Portion
Elmira, New York

Unit Location	Record Date	Record Time	Unit Serial Number	Start Date	Start Time	Record #	Dust Concentration in µg/m^3	Temp	RHumidity	AtmoPressure in mm/Hg	Notes
1429 DW CENTER TC 1.txt	7/14/2017	12:03:28 PM	0115250009	7/14/2017	7:18:28 AM	19	12.39	29.9	55	740	
2535 UW TEE POST TC.txt	7/14/2017	7:36:52 AM	CM15111015	7/14/2017	7:21:52 AM	1	0.22	20.1	80	740	
2535 UW TEE POST TC.txt	7/14/2017	7:51:52 AM	CM15111015	7/14/2017	7:21:52 AM	2	-0.09	20.2	86	742	
2535 UW TEE POST TC.txt	7/14/2017	8:06:52 AM	CM15111015	7/14/2017	7:21:52 AM	3	-0.31	20.5	86	742	
2535 UW TEE POST TC.txt	7/14/2017	8:21:52 AM	CM15111015	7/14/2017	7:21:52 AM	4	0.92	20.8	85	742	
2535 UW TEE POST TC.txt	7/14/2017	8:36:52 AM	CM15111015	7/14/2017	7:21:52 AM	5	1.43	21.4	84	742	
2535 UW TEE POST TC.txt	7/14/2017	8:51:52 AM	CM15111015	7/14/2017	7:21:52 AM	6	1.55	22.2	81	742	
2535 UW TEE POST TC.txt	7/14/2017	9:06:52 AM	CM15111015	7/14/2017	7:21:52 AM	7	3.18	22.6	79	742	
2535 UW TEE POST TC.txt	7/14/2017	9:21:52 AM	CM15111015	7/14/2017	7:21:52 AM	8	5.11	22.7	79	742	
2535 UW TEE POST TC.txt	7/14/2017	9:36:52 AM	CM15111015	7/14/2017	7:21:52 AM	9	5.84	23.2	78	742	
2535 UW TEE POST TC.txt	7/14/2017	9:51:52 AM	CM15111015	7/14/2017	7:21:52 AM	10	7.44	24.2	76	742	
2535 UW TEE POST TC.txt	7/14/2017	10:06:52 AM	CM15111015	7/14/2017	7:21:52 AM	11	10.27	25.1	72	742	
2535 UW TEE POST TC.txt	7/14/2017	10:21:52 AM	CM15111015	7/14/2017	7:21:52 AM	12	11.42	25.9	70	742	
2535 UW TEE POST TC.txt	7/14/2017	10:36:52 AM	CM15111015	7/14/2017	7:21:52 AM	13	12.48	26.4	69	742	
2535 UW TEE POST TC.txt	7/14/2017	10:51:52 AM	CM15111015	7/14/2017	7:21:52 AM	14	14.23	27.6	65	742	
2535 UW TEE POST TC.txt	7/14/2017	11:06:52 AM	CM15111015	7/14/2017	7:21:52 AM	15	14.9	29.2	61	742	
2535 UW TEE POST TC.txt	7/14/2017	11:21:52 AM	CM15111015	7/14/2017	7:21:52 AM	16	14.9	30.8	53	742	
2535 UW TEE POST TC.txt	7/14/2017	11:36:52 AM	CM15111015	7/14/2017	7:21:52 AM	17	13.5	30.5	52	742	
2535 UW TEE POST TC.txt	7/14/2017	11:51:52 AM	CM15111015	7/14/2017	7:21:52 AM	18	11.27	30.2	53	742	
2535 UW TEE POST TC.txt	7/14/2017	12:06:52 PM	CM15111015	7/14/2017	7:21:52 AM	19	10.9	30.9	52	742	
2535 UW TEE POST TC.txt	7/14/2017	12:21:52 PM	CM15111015	7/14/2017	7:21:52 AM	20	9.75	31.4	51	742	
2535 UW TEE POST TC.txt	7/14/2017	12:36:52 PM	CM15111015	7/14/2017	7:21:52 AM	21	8.71	31.7	49	742	
2535 UW TEE POST TC.txt	7/14/2017	12:51:52 PM	CM15111015	7/14/2017	7:21:52 AM	22	6.04	32.2	49	742	
2535 UW TEE POST TC.txt	7/14/2017	1:06:52 PM	CM15111015	7/14/2017	7:21:52 AM	23	8.61	33.5	46	742	
2535 UW TEE POST TC.txt	7/14/2017	1:21:52 PM	CM15111015	7/14/2017	7:21:52 AM	24	3.28	34	44	742	
2535 UW TEE POST TC.txt	7/14/2017	1:36:52 PM	CM15111015	7/14/2017	7:21:52 AM	25	2.41	35.2	42	742	
2535 UW TEE POST TC.txt	7/14/2017	1:51:52 PM	CM15111015	7/14/2017	7:21:52 AM	26	1.19	36.6	39	742	
2535 UW TEE POST TC.txt	7/14/2017	2:06:52 PM	CM15111015	7/14/2017	7:21:52 AM	27	3.3	36.9	37	740	
2535 UW TEE POST TC.txt	7/14/2017	2:21:52 PM	CM15111015	7/14/2017	7:21:52 AM	28	12.76	36.7	37	740	
2535 UW TEE POST TC.txt	7/14/2017	2:36:52 PM	CM15111015	7/14/2017	7:21:52 AM	29	4.69	36.4	37	740	
2535 UW TEE POST TC.txt	7/14/2017	2:51:52 PM	CM15111015	7/14/2017	7:21:52 AM	30	3.57	37	37	740	
2535 UW TEE POST TC.txt	7/14/2017	3:06:52 PM	CM15111015	7/14/2017	7:21:52 AM	31	4.13	37	35	740	
2535 UW TEE POST TC.txt	7/14/2017	3:21:52 PM	CM15111015	7/14/2017	7:21:52 AM	32	0.35	37	35	740	
2535 UW TEE POST TC.txt	7/14/2017	3:36:52 PM	CM15111015	7/14/2017	7:21:52 AM	33	-0.06	37.5	35	740	
2535 UW TEE POST TC.txt	7/14/2017	3:51:52 PM	CM15111015	7/14/2017	7:21:52 AM	34	1	37.8	34	740	
2535 UW TEE POST TC.txt	7/14/2017	4:06:52 PM	CM15111015	7/14/2017	7:21:52 AM	35	0.22	37.6	34	740	
2535 UW TEE POST TC.txt	7/14/2017	4:21:52 PM	CM15111015	7/14/2017	7:21:52 AM	36	4.66	37.9	34	740	
2535 UW TEE POST TC.txt	7/14/2017	4:36:52 PM	CM15111015	7/14/2017	7:21:52 AM	37	1.49	38.1	33	740	
818 DW NW FENCE TC 1.txt	7/14/2017	7:33:44 AM	0115249311	7/14/2017	7:18:44 AM	1	-7.33	21.7	78	740	
818 DW NW FENCE TC 1.txt	7/14/2017	7:48:44 AM	0115249311	7/14/2017	7:18:44 AM	2	-7.4	21.6	82	740	
818 DW NW FENCE TC 1.txt	7/14/2017	8:03:44 AM	0115249311	7/14/2017	7:18:44 AM	3	-7.5	21.7	83	740	
818 DW NW FENCE TC 1.txt	7/14/2017	8:18:44 AM	0115249311	7/14/2017	7:18:44 AM	4	-7.14	21.9	83	740	
818 DW NW FENCE TC 1.txt	7/14/2017	8:33:44 AM	0115249311	7/14/2017	7:18:44 AM	5	-6.35	22.2	82	740	
818 DW NW FENCE TC 1.txt	7/14/2017	8:48:44 AM	0115249311	7/14/2017	7:18:44 AM	6	-5.54	22.7	81	740	
818 DW NW FENCE TC 1.txt	7/14/2017	9:03:44 AM	0115249311	7/14/2017	7:18:44 AM	7	-4.31	23.1	80	740	
818 DW NW FENCE TC 1.txt	7/14/2017	9:18:44 AM	0115249311	7/14/2017	7:18:44 AM	8	-3.48	23.3	80	740	
818 DW NW FENCE TC 1.txt	7/14/2017	9:33:44 AM	0115249311	7/14/2017	7:18:44 AM	9	-2.56	23.6	79	740	
818 DW NW FENCE TC 1.txt	7/14/2017	9:48:44 AM	0115249311	7/14/2017	7:18:44 AM	10	-1.55	24.2	78	740	
818 DW NW FENCE TC 1.txt	7/14/2017	10:03:44 AM	0115249311	7/14/2017	7:18:44 AM	11	0.72	25	76	740	
818 DW NW FENCE TC 1.txt	7/14/2017	10:18:44 AM	0115249311	7/14/2017	7:18:44 AM	12	1.9	25.6	73	740	
818 DW NW FENCE TC 1.txt	7/14/2017	10:33:44 AM	0115249311	7/14/2017	7:18:44 AM	13	2.72	26	73	740	
818 DW NW FENCE TC 1.txt	7/14/2017	10:48:44 AM	0115249311	7/14/2017	7:18:44 AM	14	4.05	26.7	71	740	
818 DW NW FENCE TC 1.txt	7/14/2017	11:03:44 AM	0115249311	7/14/2017	7:18:44 AM	15	5.9	28	67	740	
818 DW NW FENCE TC 2.txt	7/14/2017	11:50:23 AM	0115249311	7/14/2017	11:35:23 AM	1	5.91	30.9	53	738	
818 DW NW FENCE TC 2.txt	7/14/2017	12:05:23 PM	0115249311	7/14/2017	11:35:23 AM	2	5.88	31.9	52	740	
818 DW NW FENCE TC 2.txt	7/14/2017	12:20:23 PM	0115249311	7/14/2017	11:35:23 AM	3	5.5	32.6	50	740	
818 DW NW FENCE TC 2.txt	7/14/2017	12:35:23 PM	0115249311	7/14/2017	11:35:23 AM	4	4.95	32.9	49	740	
818 DW NW FENCE TC 2.txt	7/14/2017	12:50:23 PM	0115249311	7/14/2017	11:35:23 AM	5	3.31	33.2	49	740	
818 DW NW FENCE TC 2.txt	7/14/2017	1:05:23 PM	0115249311	7/14/2017	11:35:23 AM	6	2.47	34	47	740	
818 DW NW FENCE TC 2.txt	7/14/2017	1:20:23 PM	0115249311	7/14/2017	11:35:23 AM	7	3.06	34.7	45	740	
818 DW NW FENCE TC 2.txt	7/14/2017	1:35:23 PM	0115249311	7/14/2017	11:35:23 AM	8	3.16	35.3	44	740	
818 DW NW FENCE TC 2.txt	7/14/2017	1:50:23 PM	0115249311	7/14/2017	11:35:23 AM	9	2.28	36	42	740	
818 DW NW FENCE TC 2.txt	7/14/2017	2:05:23 PM	0115249311	7/14/2017	11:35:23 AM	10	2.71	36.6	40	740	
818 DW NW FENCE TC 2.txt	7/14/2017	2:20:23 PM	0115249311	7/14/2017	11:35:23 AM	11	3.86	36.6	40	740	
818 DW NW FENCE TC 2.txt	7/14/2017	2:35:23 PM	0115249311	7/14/2017	11:35:23 AM	12	2.66	36.5	40	740	
818 DW NW FENCE TC 2.txt	7/14/2017	2:50:23 PM	0115249311	7/14/2017	11:35:23 AM	13	2.46	36.7	39	740	
818 DW NW FENCE TC 2.txt	7/14/2017	3:05:23 PM	0115249311	7/14/2017	11:35:23 AM	14	2.74	37.1	38	740	
818 DW NW FENCE TC 2.txt	7/14/2017	3:20:23 PM	0115249311	7/14/2017	11:35:23 AM	15	2.35	37.2	37	738	
818 DW NW FENCE TC 2.txt	7/14/2017	3:35:23 PM	0115249311	7/14/2017	11:35:23 AM	16	2.19	37.6	37	738	
818 DW NW FENCE TC 2.txt	7/14/2017	3:50:23 PM	0115249311	7/14/2017	11:35:23 AM	17	2.13	37.8	37	738	
818 DW NW FENCE TC 2.txt	7/14/2017	4:05:23 PM	0115249311	7/14/2017	11:35:23 AM	18	2.63	37.9	36	738	
818 DW NW FENCE TC 2.txt	7/14/2017	4:20:23 PM	0115249311	7/14/2017	11:35:23 AM	19	1.88	38.2	36	738	
818 DW NW FENCE TC 2.txt	7/14/2017	4:35:23 PM	0115249311	7/14/2017	11:35:23 AM	20	2.06	38.3	36	738	
0818 DW NW Fence SX.txt	7/20/2017	7:40:03 AM	0115249311	7/20/2017	7:25:03 AM	1	-1.55	19.8	75	740	
0818 DW NW Fence SX.txt	7/20/2017	7:55:03 AM	0115249311	7/20/2017	7:25:03 AM	2	-1.78	20.4	76	740	
0818 DW NW Fence SX.txt	7/20/2017	8:10:03 AM	0115249311	7/20/2017	7:25:03 AM	3	-1.64	22.4	70	740	
0818 DW NW Fence SX.txt	7/20/2017	8:25:03 AM	0115249311	7/20/2017	7:25:03 AM	4	-0.41	26.3	58	740	
0818 DW NW Fence SX.txt	7/20/2017	8:40:03 AM	0115249311	7/20/2017	7:25:03 AM	5	-0.08	29.4	49	740	
0818 DW NW Fence SX.txt	7/20/2017	8:55:03 AM	0115249311	7/20/2017	7:25:03 AM	6	2.25	31	45	742	
0818 DW NW Fence SX.txt	7/20/2017	9:10:03 AM	0115249311	7/20/2017	7:25:03 AM	7	3.54	31.4	44	742	
0818 DW NW Fence SX.txt	7/20/2017	9:25:03 AM	0115249311	7/20/2017	7:25:03 AM	8	2.27	31.8	44	742	
0818 DW NW Fence SX.txt	7/20/2017	9:40:03 AM	0115249311	7/20/2017	7:25:03 AM	9	6.79	34.2	39	742	
0818 DW NW Fence SX.txt	7/20/2017	9:55:03 AM	0115249311	7/20/2017	7:25:03 AM	10	26.6	35.6	37	742	
0818 DW NW Fence SX.txt	7/20/2017	10:10:03 AM	0115249311	7/20/2017	7:25:03 AM	11	10.92	37.4	35	742	
0818 DW NW Fence SX.txt	7/20/2017	10:25:03 AM	0115249311	7/20/2017	7:25:03 AM	12	6.12	39.4	32	742	
0818 DW NW Fence SX.txt	7/20/2017	10:40:03 AM	0115249311	7/20/2017	7:25:03 AM	13	18.42	39.7	31	740	
0818 DW NW Fence SX.txt	7/20/2017	10:55:03 AM	0115249311	7/20/2017	7:25:03 AM	14	4.62	39.5	31	740	
0818 DW NW Fence SX.txt	7/20/2017	11:10:03 AM	0115249311	7/20/2017	7:25:03 AM	15	4.28	39.3	32	740	
0818 DW NW Fence SX.txt	7/20/2017	11:25:03 AM	0115249311	7/20/2017	7:25:03 AM	16	4.68	39.1	32	740	
0818 DW NW Fence SX.txt	7/20/2017	11:40:03 AM	0115249311	7/20/2017	7:25:03 AM	17	2.94	38.4	34	740	
0818 DW NW Fence SX.txt	7/20/2017	11:55:03 AM	0115249311	7/20/2017	7:25:03 AM	18	4	38.5	33	740	
0818 DW NW Fence SX.txt	7/20/2017	12:10:03 PM	0115249311	7/20/2017	7:25:03 AM	19	3.58	39.2	31	740	
0818 DW NW Fence SX.txt	7/20/2017	12:25:03 PM	0115249311	7/20/2017	7:25:03 AM	20	3.34	39.3	31	740	
0818 DW NW Fence SX.txt	7/20/2017	12:40:03 PM	0115249311	7/20/2017	7:25:03 AM	21	2.26	38.6	32	740	
0818 DW NW Fence SX.txt	7/20/2017	12:55:03 PM	0115249311	7/20/2017	7:25:03 AM	22	8.14	38.5	33	740	
0818 DW NW Fence SX.txt	7/20/2017	1:10:03 PM	0115249311	7/20/2017	7:25:03 AM	23	10.6	39.1	32	740	
0818 DW NW Fence SX.txt	7/20/2017	1:25:03 PM	0115249311	7/20/2017	7:25:03 AM	24	4.33	39.2	31	740	
0818 DW NW Fence SX.txt	7/20/2017	1:40:03 PM	0115249311	7/20/2017	7:25:03 AM	25	6.55	38.9	32	740	
0818 DW NW Fence SX.txt	7/20/2017	1:55:03 PM	0115249311	7/20/2017	7:25:03 AM	26	6.33	37.9	34	738	
0818 DW NW Fence SX.txt	7/20/2017	2:10:03 PM	0115249311	7/20/2017	7:25:03 AM	27	23.29	36.7	35	738	
0818 DW NW Fence SX.txt	7/20/2017	2:25:03 PM	0115249311	7/20/2017	7:25:03 AM	28	18.77	35.7	36	738	
1421 DW NW Corner SX.txt	7/20/2017	7:39:29 AM	0115249975	7/20/2017	7:24:29 AM	1	8.64	19.7	73	740	
1421 DW NW Corner SX.txt	7/20/2017	7:54:29 AM	0115249975	7/20/2017	7:24:29 AM	2	7.27	19.9	76	740	
1421 DW NW Corner SX.txt	7/20/2017	8:09:29 AM	0115249975	7/20/2017	7:24:29 AM	3	6.51	21.4	72	740	
1421 DW NW Corner SX.txt	7/20/2017	8:24:29 AM	0115249975	7/20/2017	7:24:29 AM	4	6.23	25.3	59	740	
1421 DW NW Corner SX.txt	7/20/2017	8:39:29 AM	0115249975	7/20/2017	7:24:29 AM	5	6.52	28.5	49	740	
1421 DW NW Corner SX.txt	7/20/2017	8:54:29 AM	0115249975	7/20/2017	7:24:29 AM	6	8.46	30.3	43	740	
1421 DW NW Corner SX.txt	7/20/2017	9:09:29 AM	0115249975	7/20/2017	7:24:29 AM	7	10.26	30.5	43	740	
1421 DW NW Corner SX.txt	7/20/2017	9:24:29 AM	0115249975	7/20/2017	7:24:29 AM	8	7.84	30.7	43	740	
1421 DW NW Corner SX.txt	7/20/2017	9:39:29 AM	0115249975	7/20/2017	7:24:29 AM	9	14.76	32.8	40	740	
1421 DW NW Corner SX.txt	7/20/2017	9:54:29 AM	0115249975	7/20/2017	7:24:29 AM	10	8.92	34.9	38	740	
1421 DW NW Corner SX.txt	7/20/2017	10:09:29 AM	0115249975	7/20/2017	7:24:29 AM	11	9.54	35.9	36	740	
1421 DW NW Corner SX.txt	7/20/2017	10:24:29 AM	0115249975	7/20/2017	7:24:29 AM	12	9.44	37.6	31	740	
1421 DW NW Corner SX.txt	7/20/2017	10:39:29 AM	0115249975	7/20/2017	7:24:29 AM	13	9.7	37.8	31	740	
1421 DW NW Corner SX.txt	7/20/2017	10:54:29 AM	0115249975	7/20/2017	7:24:29 AM	14	9.84	37.7	31	740	
1421 DW NW Corner SX.txt	7/20/2017	11:09:29 AM	0115249975	7/20/2017	7:24:29 AM	15	9.92	37.6	32	740	
1421 DW NW Corner SX.txt	7/20/2017	11:24:29 AM	0115249975	7/20/2017	7:24:29 AM	16	20.23	37.7	32	740	
1421 DW NW Corner SX.txt	7/20/2017	11:39:29 AM	0115249975	7/20/2017	7:24:29 AM	17	8.36	36.8	33	740	
1421 DW NW Corner SX.txt	7/20/2017	11:54:29 AM	0115249975	7/20/2017	7:24:29 AM	18	10.04	36.6	33	740	
1421 DW NW Corner SX.txt	7/20/2017	12:09:29 PM	0115249975	7/20/2017	7:24:29 AM	19	9.81	37.3	31	740	
1421 DW NW Corner SX.txt	7/20/2017	12:24:29 PM	0115249975	7/20/2017	7:24:29 AM	20	8.89	37.8	30	740	
1421 DW NW Corner SX.txt	7/20/2017	12:39:29 PM	0115249975	7/20/2017	7:24:29 AM	21	9.54	37.4	31	740	
1421 DW NW Corner SX.txt	7/20/2017	12:54:29 PM	0115249975	7/20/2017	7:24:29 AM	22	25.69	37.4	31	740	
1421 DW NW Corner SX.txt	7/20/2017	1:09:29 PM	0115249975	7/20/2017	7:24:29 AM	23	27.1	38	30	740	
1421 DW NW Corner SX.txt	7/20/2017	1:24:29 PM	0115249975	7/20/2017	7:24:29 AM	24	9.65	38.3	30	738	

Summary of CAMP Monitoring

Beech and Bonaparte

Former Sperry Remington Site - North Portion
Elmira, New York

Unit Location	Record Date	Record Time	Unit Serial Number	Start Date	Start Time	Record #	Dust Concentration in µg/m^3	Temp	RHumidity	AtmoPressure in mm/Hg	Notes
1421 DW NW Corner SX.txt	7/20/2017	1:39:29 PM	0115249975	7/20/2017	7:24:29 AM	25	13.06	38.1	30	738	
1421 DW NW Corner SX.txt	7/20/2017	1:54:29 PM	0115249975	7/20/2017	7:24:29 AM	26	14.48	37.5	31	738	
1421 DW NW Corner SX.txt	7/20/2017	2:09:29 PM	0115249975	7/20/2017	7:24:29 AM	27	17.6	36	34	738	
1421 DW NW Corner SX.txt	7/20/2017	2:24:29 PM	0115249975	7/20/2017	7:24:29 AM	28	21.87	34.7	39	738	
1422 DW NE Fence SP.txt	7/20/2017	7:41:26 AM	0115249980	7/20/2017	7:26:26 AM	1	4.88	19.3	73	740	
1422 DW NE Fence SP.txt	7/20/2017	7:56:26 AM	0115249980	7/20/2017	7:26:26 AM	2	4.65	19	77	740	
1422 DW NE Fence SP.txt	7/20/2017	8:11:26 AM	0115249980	7/20/2017	7:26:26 AM	3	4.27	19	78	740	
1422 DW NE Fence SP.txt	7/20/2017	8:26:26 AM	0115249980	7/20/2017	7:26:26 AM	4	4.3	19.4	78	740	
1422 DW NE Fence SP.txt	7/20/2017	8:41:26 AM	0115249980	7/20/2017	7:26:26 AM	5	4.27	20	76	740	
1422 DW NE Fence SP.txt	7/20/2017	8:56:26 AM	0115249980	7/20/2017	7:26:26 AM	6	4.32	21.2	73	740	
1422 DW NE Fence SP.txt	7/20/2017	9:11:26 AM	0115249980	7/20/2017	7:26:26 AM	7	4.53	22.1	70	740	
1422 DW NE Fence SP.txt	7/20/2017	9:26:26 AM	0115249980	7/20/2017	7:26:26 AM	8	3.95	23.2	68	740	
1422 DW NE Fence SP.txt	7/20/2017	9:41:26 AM	0115249980	7/20/2017	7:26:26 AM	9	3.65	25.5	62	740	
1422 DW NE Fence SP.txt	7/20/2017	9:56:26 AM	0115249980	7/20/2017	7:26:26 AM	10	4.06	27.9	54	740	
1422 DW NE Fence SP.txt	7/20/2017	10:11:26 AM	0115249980	7/20/2017	7:26:26 AM	11	3.58	29.3	52	740	
1422 DW NE Fence SP.txt	7/20/2017	10:26:26 AM	0115249980	7/20/2017	7:26:26 AM	12	3.44	31.6	46	740	
1422 DW NE Fence SP.txt	7/20/2017	10:41:26 AM	0115249980	7/20/2017	7:26:26 AM	13	3.89	33	44	740	
1422 DW NE Fence SP.txt	7/20/2017	10:56:26 AM	0115249980	7/20/2017	7:26:26 AM	14	6.09	34.4	41	740	
1422 DW NE Fence SP.txt	7/20/2017	11:11:26 AM	0115249980	7/20/2017	7:26:26 AM	15	3.86	35	39	740	
1422 DW NE Fence SP.txt	7/20/2017	11:26:26 AM	0115249980	7/20/2017	7:26:26 AM	16	8.24	35.1	39	740	
1422 DW NE Fence SP.txt	7/20/2017	11:41:26 AM	0115249980	7/20/2017	7:26:26 AM	17	3.07	34.8	38	740	
1422 DW NE Fence SP.txt	7/20/2017	11:56:26 AM	0115249980	7/20/2017	7:26:26 AM	18	4.4	34.6	38	740	
1422 DW NE Fence SP.txt	7/20/2017	12:11:26 PM	0115249980	7/20/2017	7:26:26 AM	19	2.97	35.2	38	740	
1422 DW NE Fence SP.txt	7/20/2017	12:26:26 PM	0115249980	7/20/2017	7:26:26 AM	20	2.5	35.6	36	740	
1422 DW NE Fence SP.txt	7/20/2017	12:41:26 PM	0115249980	7/20/2017	7:26:26 AM	21	3.25	35.1	37	740	
1422 DW NE Fence SP.txt	7/20/2017	12:56:26 PM	0115249980	7/20/2017	7:26:26 AM	22	2.17	34.7	38	740	
1422 DW NE Fence SP.txt	7/20/2017	1:11:26 PM	0115249980	7/20/2017	7:26:26 AM	23	2.63	35.2	37	738	
1422 DW NE Fence SP.txt	7/20/2017	1:26:26 PM	0115249980	7/20/2017	7:26:26 AM	24	2.36	35.1	37	738	
1422 DW NE Fence SP.txt	7/20/2017	1:41:26 PM	0115249980	7/20/2017	7:26:26 AM	25	2.8	34.4	38	738	
1422 DW NE Fence SP.txt	7/20/2017	1:56:26 PM	0115249980	7/20/2017	7:26:26 AM	26	2.77	33.3	40	738	
1422 DW NE Fence SP.txt	7/20/2017	2:11:26 PM	0115249980	7/20/2017	7:26:26 AM	27	13.62	32.1	42	738	
1422 DW NE Fence SP.txt	7/20/2017	2:26:26 PM	0115249980	7/20/2017	7:26:26 AM	28	4.13	31.4	46	738	
1428 DW NE Corner SX.txt	7/20/2017	7:39:22 AM	0115250007	7/20/2017	7:24:22 AM	1	5.01	18.4	78	740	
1428 DW NE Corner SX.txt	7/20/2017	7:54:22 AM	0115250007	7/20/2017	7:24:22 AM	2	4.49	18.9	82	740	
1428 DW NE Corner SX.txt	7/20/2017	8:09:22 AM	0115250007	7/20/2017	7:24:22 AM	3	4.3	20.2	80	742	
1428 DW NE Corner SX.txt	7/20/2017	8:24:22 AM	0115250007	7/20/2017	7:24:22 AM	4	4.66	23.1	71	742	
1428 DW NE Corner SX.txt	7/20/2017	8:39:22 AM	0115250007	7/20/2017	7:24:22 AM	5	4.19	25.8	63	742	
1428 DW NE Corner SX.txt	7/20/2017	8:54:22 AM	0115250007	7/20/2017	7:24:22 AM	6	5.4	28.1	55	742	
1428 DW NE Corner SX.txt	7/20/2017	9:09:22 AM	0115250007	7/20/2017	7:24:22 AM	7	5.62	29	52	742	
1428 DW NE Corner SX.txt	7/20/2017	9:24:22 AM	0115250007	7/20/2017	7:24:22 AM	8	4.81	29.8	51	742	
1428 DW NE Corner SX.txt	7/20/2017	9:39:22 AM	0115250007	7/20/2017	7:24:22 AM	9	5.86	31.2	48	742	
1428 DW NE Corner SX.txt	7/20/2017	9:54:22 AM	0115250007	7/20/2017	7:24:22 AM	10	5.21	32.8	45	742	
1428 DW NE Corner SX.txt	7/20/2017	10:09:22 AM	0115250007	7/20/2017	7:24:22 AM	11	5.51	34.1	43	742	
1428 DW NE Corner SX.txt	7/20/2017	10:24:22 AM	0115250007	7/20/2017	7:24:22 AM	12	5.13	35.5	41	742	
1428 DW NE Corner SX.txt	7/20/2017	10:39:22 AM	0115250007	7/20/2017	7:24:22 AM	13	4.98	36.6	39	742	
1428 DW NE Corner SX.txt	7/20/2017	10:54:22 AM	0115250007	7/20/2017	7:24:22 AM	14	5.19	37.3	38	742	
1428 DW NE Corner SX.txt	7/20/2017	11:09:22 AM	0115250007	7/20/2017	7:24:22 AM	15	5.24	37.9	37	742	
1428 DW NE Corner SX.txt	7/20/2017	11:24:22 AM	0115250007	7/20/2017	7:24:22 AM	16	5.88	38.5	36	742	
1428 DW NE Corner SX.txt	7/20/2017	11:39:22 AM	0115250007	7/20/2017	7:24:22 AM	17	5.08	38	36	742	
1428 DW NE Corner SX.txt	7/20/2017	11:54:22 AM	0115250007	7/20/2017	7:24:22 AM	18	6.68	36.8	38	742	
1428 DW NE Corner SX.txt	7/20/2017	12:09:22 PM	0115250007	7/20/2017	7:24:22 AM	19	6.15	35.6	40	740	
1428 DW NE Corner SX.txt	7/20/2017	12:24:22 PM	0115250007	7/20/2017	7:24:22 AM	20	5.05	35.1	40	740	
1428 DW NE Corner SX.txt	7/20/2017	12:39:22 PM	0115250007	7/20/2017	7:24:22 AM	21	5.18	34	42	740	
1428 DW NE Corner SX.txt	7/20/2017	12:54:22 PM	0115250007	7/20/2017	7:24:22 AM	22	8.21	33.3	44	740	
1428 DW NE Corner SX.txt	7/20/2017	1:09:22 PM	0115250007	7/20/2017	7:24:22 AM	23	11.97	33.6	44	740	
1428 DW NE Corner SX.txt	7/20/2017	1:24:22 PM	0115250007	7/20/2017	7:24:22 AM	24	7.01	34.1	42	740	
1428 DW NE Corner SX.txt	7/20/2017	1:39:22 PM	0115250007	7/20/2017	7:24:22 AM	25	7.72	34.2	42	740	
1428 DW NE Corner SX.txt	7/20/2017	1:54:22 PM	0115250007	7/20/2017	7:24:22 AM	26	8.62	33.3	43	740	
1428 DW NE Corner SX.txt	7/20/2017	2:09:22 PM	0115250007	7/20/2017	7:24:22 AM	27	13	32.3	45	740	
1428 DW NE Corner SX.txt	7/20/2017	2:24:22 PM	0115250007	7/20/2017	7:24:22 AM	28	10.68	31.6	47	740	
1429 DW N Center SX.txt	7/20/2017	7:37:47 AM	0115250009	7/20/2017	7:22:47 AM	1	4.41	18.3	79	740	
1429 DW N Center SX.txt	7/20/2017	7:52:47 AM	0115250009	7/20/2017	7:22:47 AM	2	3.85	18.4	84	740	
1429 DW N Center SX.txt	7/20/2017	8:07:47 AM	0115250009	7/20/2017	7:22:47 AM	3	4.03	18.7	84	742	
1429 DW N Center SX.txt	7/20/2017	8:22:47 AM	0115250009	7/20/2017	7:22:47 AM	4	4.24	19.2	81	742	
1429 DW N Center SX.txt	7/20/2017	8:37:47 AM	0115250009	7/20/2017	7:22:47 AM	5	3.78	19.9	80	742	
1429 DW N Center SX.txt	7/20/2017	8:52:47 AM	0115250009	7/20/2017	7:22:47 AM	6	4.89	20.9	74	742	
1429 DW N Center SX.txt	7/20/2017	9:07:47 AM	0115250009	7/20/2017	7:22:47 AM	7	6.2	21.8	71	742	
1429 DW N Center SX.txt	7/20/2017	9:22:47 AM	0115250009	7/20/2017	7:22:47 AM	8	5.05	22.6	70	742	
1429 DW N Center SX.txt	7/20/2017	9:37:47 AM	0115250009	7/20/2017	7:22:47 AM	9	5.97	23.2	69	742	
1429 DW N Center SX.txt	7/20/2017	9:52:47 AM	0115250009	7/20/2017	7:22:47 AM	10	5.22	23.9	68	742	
1429 DW N Center SX.txt	7/20/2017	10:07:47 AM	0115250009	7/20/2017	7:22:47 AM	11	6.13	24.6	66	740	
1429 DW N Center SX.txt	7/20/2017	10:22:47 AM	0115250009	7/20/2017	7:22:47 AM	12	6.43	25.7	63	740	
1429 DW N Center SX.txt	7/20/2017	10:37:47 AM	0115250009	7/20/2017	7:22:47 AM	13	5.14	26.8	62	740	
1429 DW N Center SX.txt	7/20/2017	10:52:47 AM	0115250009	7/20/2017	7:22:47 AM	14	8.51	28	58	740	
1429 DW N Center SX.txt	7/20/2017	11:07:47 AM	0115250009	7/20/2017	7:22:47 AM	15	5.85	29.5	54	740	
1429 DW N Center SX.txt	7/20/2017	11:22:47 AM	0115250009	7/20/2017	7:22:47 AM	16	6.82	30.9	50	740	
1429 DW N Center SX.txt	7/20/2017	11:37:47 AM	0115250009	7/20/2017	7:22:47 AM	17	5.16	31.5	47	740	
1429 DW N Center SX.txt	7/20/2017	11:52:47 AM	0115250009	7/20/2017	7:22:47 AM	18	5.7	32	45	740	
1429 DW N Center SX.txt	7/20/2017	12:07:47 PM	0115250009	7/20/2017	7:22:47 AM	19	9.78	32.5	43	740	
1429 DW N Center SX.txt	7/20/2017	12:22:47 PM	0115250009	7/20/2017	7:22:47 AM	20	5.08	33.1	41	740	
1429 DW N Center SX.txt	7/20/2017	12:37:47 PM	0115250009	7/20/2017	7:22:47 AM	21	4.5	32.9	41	740	
1429 DW N Center SX.txt	7/20/2017	12:52:47 PM	0115250009	7/20/2017	7:22:47 AM	22	3.92	33.1	42	740	
1429 DW N Center SX.txt	7/20/2017	1:07:47 PM	0115250009	7/20/2017	7:22:47 AM	23	5.69	34	40	740	
1429 DW N Center SX.txt	7/20/2017	1:22:47 PM	0115250009	7/20/2017	7:22:47 AM	24	5.01	34.8	37	740	
1429 DW N Center SX.txt	7/20/2017	1:37:47 PM	0115250009	7/20/2017	7:22:47 AM	25	10.4	34.9	38	740	
1429 DW N Center SX.txt	7/20/2017	1:52:47 PM	0115250009	7/20/2017	7:22:47 AM	26	9.31	34.1	39	740	
1429 DW N Center SX.txt	7/20/2017	2:07:47 PM	0115250009	7/20/2017	7:22:47 AM	27	17.17	32.8	41	738	
1429 DW N Center SX.txt	7/20/2017	2:22:47 PM	0115250009	7/20/2017	7:22:47 AM	28	18.58	32	43	738	
1860 DW NW Fence SP.txt	7/20/2017	7:39:53 AM	0115250203	7/20/2017	7:24:53 AM	1	5.7	19.7	75	740	
1860 DW NW Fence SP.txt	7/20/2017	7:54:53 AM	0115250203	7/20/2017	7:24:53 AM	2	5.01	19.6	79	740	
1860 DW NW Fence SP.txt	7/20/2017	8:09:53 AM	0115250203	7/20/2017	7:24:53 AM	3	4.63	20	79	740	
1860 DW NW Fence SP.txt	7/20/2017	8:24:53 AM	0115250203	7/20/2017	7:24:53 AM	4	4.55	21.6	74	740	
1860 DW NW Fence SP.txt	7/20/2017	8:39:53 AM	0115250203	7/20/2017	7:24:53 AM	5	4.8	23.3	69	740	
1860 DW NW Fence SP.txt	7/20/2017	8:54:53 AM	0115250203	7/20/2017	7:24:53 AM	6	5.17	25.2	63	740	
1860 DW NW Fence SP.txt	7/20/2017	9:09:53 AM	0115250203	7/20/2017	7:24:53 AM	7	5.76	25.7	61	742	
1860 DW NW Fence SP.txt	7/20/2017	9:24:53 AM	0115250203	7/20/2017	7:24:53 AM	8	5.28	26.1	61	740	
1860 DW NW Fence SP.txt	7/20/2017	9:39:53 AM	0115250203	7/20/2017	7:24:53 AM	9	5.54	27.3	59	740	
1860 DW NW Fence SP.txt	7/20/2017	9:54:53 AM	0115250203	7/20/2017	7:24:53 AM	10	5.5	29.4	53	740	
1860 DW NW Fence SP.txt	7/20/2017	10:09:53 AM	0115250203	7/20/2017	7:24:53 AM	11	5.66	30.4	51	740	
1860 DW NW Fence SP.txt	7/20/2017	10:24:53 AM	0115250203	7/20/2017	7:24:53 AM	12	6.07	32.2	47	740	
1860 DW NW Fence SP.txt	7/20/2017	10:39:53 AM	0115250203	7/20/2017	7:24:53 AM	13	6.32	33.4	45	740	
1860 DW NW Fence SP.txt	7/20/2017	10:54:53 AM	0115250203	7/20/2017	7:24:53 AM	14	6.97	34.8	42	740	
1860 DW NW Fence SP.txt	7/20/2017	11:09:53 AM	0115250203	7/20/2017	7:24:53 AM	15	7.03	35.6	41	740	
1860 DW NW Fence SP.txt	7/20/2017	11:24:53 AM	0115250203	7/20/2017	7:24:53 AM	16	8.2	36	40	740	
1860 DW NW Fence SP.txt	7/20/2017	11:39:53 AM	0115250203	7/20/2017	7:24:53 AM	17	6.54	35.6	39	740	
1860 DW NW Fence SP.txt	7/20/2017	11:54:53 AM	0115250203	7/20/2017	7:24:53 AM	18	8.41	35.3	39	740	
1860 DW NW Fence SP.txt	7/20/2017	12:09:53 PM	0115250203	7/20/2017	7:24:53 AM	19	5.88	35.8	39	740	
1860 DW NW Fence SP.txt	7/20/2017	12:24:53 PM	0115250203	7/20/2017	7:24:53 AM	20	5.98	36.3	37	740	
1860 DW NW Fence SP.txt	7/20/2017	12:39:53 PM	0115250203	7/20/2017	7:24:53 AM	21	8.73	36	37	740	
1860 DW NW Fence SP.txt	7/20/2017	12:54:53 PM	0115250203	7/20/2017	7:24:53 AM	22	5.2	35.6	38	740	
1860 DW NW Fence SP.txt	7/20/2017	1:09:53 PM	0115250203	7/20/2017	7:24:53 AM	23	6.78	36.1	38	738	
1860 DW NW Fence SP.txt	7/20/2017	1:24:53 PM	0115250203	7/20/2017	7:24:53 AM	24	7.46	36	38	738	
1860 DW NW Fence SP.txt	7/20/2017	1:39:53 PM	0115250203	7/20/2017	7:24:53 AM	25	12.62	35.5	38	738	
1860 DW NW Fence SP.txt	7/20/2017	1:54:53 PM	0115250203	7/20/2017	7:24:53 AM	26	5.74	34.4	40	738	
1860 DW NW Fence SP.txt	7/20/2017	2:09:53 PM	0115250203	7/20/2017	7:24:53 AM	27	13.32	33.2	42	738	
1860 DW NW Fence SP.txt	7/20/2017	2:24:53 PM	0115250203	7/20/2017	7:24:53 AM	28	6.98	32.5	45	738	
1936 DW NW Corner SP.txt	7/20/2017	7:56:20 AM	0115250202	7/20/2017	7:41:20 AM	1	-2.24	20	78	742	
1936 DW NW Corner SP.txt	7/20/2017	8:11:20 AM	0115250202	7/20/2017	7:41:20 AM	2	-3.36	21.4	75	742	
1936 DW NW Corner SP.txt	7/20/2017	8:26:20 AM	0115250202	7/20/2017	7:41:20 AM	3	-4.06	24.8	64	742	
1936 DW NW Corner SP.txt	7/20/2017	8:41:20 AM	0115250202	7/20/2017	7:41:20 AM	4	-3.6	28	54	742	
1936 DW NW Corner SP.txt	7/20/2017	8:56:20 AM	0115250202	7/20/2017	7:41:20 AM	5	-2.95	28.7	52	742	
1936 DW NW Corner SP.txt	7/20/2017	9:11:20 AM	0115250202	7/20/2017	7:41:20 AM	6	-2.63	28.7	53	742	
1936 DW NW Corner SP.txt	7/20/2017	9:26:20 AM	0115250202	7/20/2017	7:41:20 AM	7	-2.53	29.1	53	742	
1936 DW NW Corner SP.txt	7/20/2017	9:41:20 AM	0115250202	7/20/2017	7:41:20 AM	8	0.45	31.3	48	742	
1936 DW NW Corner SP.txt	7/20/2017	9:56:20 AM	0115250202	7/20/2017	7:41:20 AM	9	-2.13	33.4	44	742	
1936 DW NW Corner SP.txt	7/20/2017	10:11:20 AM	0115250202	7/20/2017	7:41:20 AM	10	-1.97	34.7	43	742	
1936 DW NW Corner SP.txt	7/20/2017	10:26:20 AM	0115250202	7/20/2017	7:41:20 AM	11	-1.69	36.2	39	742	
1936 DW NW Corner SP.txt	7/20/2017	10:41:20 AM	0115250202	7/20/2017	7:41:20 AM	12	-1.16	37.3	38	742	

Summary of CAMP Monitoring

Beech and Bonaparte

Former Sperry Remington Site - North Portion
Elmira, New York

Unit Location	Record Date	Record Time	Unit Serial Number	Start Date	Start Time	Record #	Dust Concentration in µg/m^3	Temp	RHumidity	AtmoPressure in mm/Hg	Notes
1936 DW NW Corner SP.txt	7/20/2017	10:56:20 AM	0115250202	7/20/2017	7:41:20 AM	13	-0.98	36.9	38	742	
1936 DW NW Corner SP.txt	7/20/2017	11:11:20 AM	0115250202	7/20/2017	7:41:20 AM	14	-0.97	36.9	39	742	
1936 DW NW Corner SP.txt	7/20/2017	11:26:20 AM	0115250202	7/20/2017	7:41:20 AM	15	0.17	36.9	38	742	
1936 DW NW Corner SP.txt	7/20/2017	11:41:20 AM	0115250202	7/20/2017	7:41:20 AM	16	-1.7	36.6	38	740	
1936 DW NW Corner SP.txt	7/20/2017	11:56:20 AM	0115250202	7/20/2017	7:41:20 AM	17	-0.26	36.7	38	740	
1936 DW NW Corner SP.txt	7/20/2017	12:11:20 PM	0115250202	7/20/2017	7:41:20 AM	18	-2.22	37.8	37	740	
1936 DW NW Corner SP.txt	7/20/2017	12:26:20 PM	0115250202	7/20/2017	7:41:20 AM	19	-1.95	38.4	35	740	
1936 DW NW Corner SP.txt	7/20/2017	12:41:20 PM	0115250202	7/20/2017	7:41:20 AM	20	-2.25	37.8	36	740	
1936 DW NW Corner SP.txt	7/20/2017	12:56:20 PM	0115250202	7/20/2017	7:41:20 AM	21	-2.8	37.7	37	740	
1936 DW NW Corner SP.txt	7/20/2017	1:11:20 PM	0115250202	7/20/2017	7:41:20 AM	22	-0.73	38.3	36	740	
1936 DW NW Corner SP.txt	7/20/2017	1:26:20 PM	0115250202	7/20/2017	7:41:20 AM	23	-2.21	38.5	35	740	
1936 DW NW Corner SP.txt	7/20/2017	1:41:20 PM	0115250202	7/20/2017	7:41:20 AM	24	-0.04	38	35	740	
1936 DW NW Corner SP.txt	7/20/2017	1:56:20 PM	0115250202	7/20/2017	7:41:20 AM	25	-1	36.7	37	740	
1936 DW NW Corner SP.txt	7/20/2017	2:11:20 PM	0115250202	7/20/2017	7:41:20 AM	26	2.19	35.1	39	740	
1936 DW NW Corner SP.txt	7/20/2017	2:26:20 PM	0115250202	7/20/2017	7:41:20 AM	27	-0.59	33.9	43	740	
1954 UPWIND SP.txt	7/20/2017	2:17:42 PM	0115250211	7/20/2017	2:02:42 PM	1	-234.73	32.9	44	738	
1954 UPWIND SP.txt	7/20/2017	2:32:42 PM	0115250211	7/20/2017	2:02:42 PM	2	-228.93	32.2	51	738	
2535 UPWIND SX.txt	7/20/2017	7:42:53 AM	CM15111015	7/20/2017	7:27:53 AM	1	7.43	18.8	73	740	
2535 UPWIND SX.txt	7/20/2017	7:57:53 AM	CM15111015	7/20/2017	7:27:53 AM	2	7.05	19.3	76	742	
2535 UPWIND SX.txt	7/20/2017	8:12:53 AM	CM15111015	7/20/2017	7:27:53 AM	3	5.65	21.5	70	742	
2535 UPWIND SX.txt	7/20/2017	8:27:53 AM	CM15111015	7/20/2017	7:27:53 AM	4	4.19	25.1	58	742	
2535 UPWIND SX.txt	7/20/2017	8:42:53 AM	CM15111015	7/20/2017	7:27:53 AM	5	4.29	28	50	742	
2535 UPWIND SX.txt	7/20/2017	8:57:53 AM	CM15111015	7/20/2017	7:27:53 AM	6	6.19	28.8	48	742	
2535 UPWIND SX.txt	7/20/2017	9:12:53 AM	CM15111015	7/20/2017	7:27:53 AM	7	6	29	48	742	
2535 UPWIND SX.txt	7/20/2017	9:27:53 AM	CM15111015	7/20/2017	7:27:53 AM	8	3.99	29.6	47	742	
2535 UPWIND SX.txt	7/20/2017	9:42:53 AM	CM15111015	7/20/2017	7:27:53 AM	9	11.06	31.9	42	742	
2535 UPWIND SX.txt	7/20/2017	9:57:53 AM	CM15111015	7/20/2017	7:27:53 AM	10	5.36	32.9	40	742	
2535 UPWIND SX.txt	7/20/2017	10:12:53 AM	CM15111015	7/20/2017	7:27:53 AM	11	7.75	34.1	38	742	
2535 UPWIND SX.txt	7/20/2017	10:27:53 AM	CM15111015	7/20/2017	7:27:53 AM	12	4.04	35.3	37	742	
2535 UPWIND SX.txt	7/20/2017	10:42:53 AM	CM15111015	7/20/2017	7:27:53 AM	13	5.07	35.8	36	742	
2535 UPWIND SX.txt	7/20/2017	10:57:53 AM	CM15111015	7/20/2017	7:27:53 AM	14	10.65	36.3	36	742	
2535 UPWIND SX.txt	7/20/2017	11:12:53 AM	CM15111015	7/20/2017	7:27:53 AM	15	6.27	37.1	35	742	
2535 UPWIND SX.txt	7/20/2017	11:27:53 AM	CM15111015	7/20/2017	7:27:53 AM	16	6.63	37.1	34	742	
2535 UPWIND SX.txt	7/20/2017	11:42:53 AM	CM15111015	7/20/2017	7:27:53 AM	17	13.51	36.2	35	742	
2535 UPWIND SX.txt	7/20/2017	11:57:53 AM	CM15111015	7/20/2017	7:27:53 AM	18	6.99	36	35	742	
2535 UPWIND SX.txt	7/20/2017	12:12:53 PM	CM15111015	7/20/2017	7:27:53 AM	19	6.63	36.4	35	742	
2535 UPWIND SX.txt	7/20/2017	12:27:53 PM	CM15111015	7/20/2017	7:27:53 AM	20	4.65	36.1	34	742	
2535 UPWIND SX.txt	7/20/2017	12:42:53 PM	CM15111015	7/20/2017	7:27:53 AM	21	3.74	35.6	35	740	
2535 UPWIND SX.txt	7/20/2017	12:57:53 PM	CM15111015	7/20/2017	7:27:53 AM	22	11.52	35.8	36	740	
2535 UPWIND SX.txt	7/20/2017	1:12:53 PM	CM15111015	7/20/2017	7:27:53 AM	23	20.32	36.4	35	740	
2535 UPWIND SX.txt	7/20/2017	1:27:53 PM	CM15111015	7/20/2017	7:27:53 AM	24	14.79	36.5	34	740	
2535 UPWIND SX.txt	7/20/2017	1:42:53 PM	CM15111015	7/20/2017	7:27:53 AM	25	29.93	36	34	740	
2535 UPWIND SX.txt	7/20/2017	1:57:53 PM	CM15111015	7/20/2017	7:27:53 AM	26	34.06	35	36	740	
2535 UPWIND SX.txt	7/20/2017	2:12:53 PM	CM15111015	7/20/2017	7:27:53 AM	27	26.98	33.9	38	740	
2980 DW NE Corner SP.txt	7/20/2017	2:36:56 PM	CM15111014	7/20/2017	2:21:56 PM	1	4.51	31.2	57	738	
1421 DW NW CORNER SX.txt	7/21/2017	7:50:14 AM	0115249975	7/21/2017	7:35:14 AM	1	-1.85	22.2	73	738	
1421 DW NW CORNER SX.txt	7/21/2017	8:05:14 AM	0115249975	7/21/2017	7:35:14 AM	2	-0.11	26.8	58	738	
1421 DW NW CORNER SX.txt	7/21/2017	8:20:14 AM	0115249975	7/21/2017	7:35:14 AM	3	-3.29	30.2	48	740	
1421 DW NW CORNER SX.txt	7/21/2017	8:35:14 AM	0115249975	7/21/2017	7:35:14 AM	4	4.07	33	43	740	
1421 DW NW CORNER SX.txt	7/21/2017	8:50:14 AM	0115249975	7/21/2017	7:35:14 AM	5	-2.86	35.2	40	740	
1421 DW NW CORNER SX.txt	7/21/2017	9:05:14 AM	0115249975	7/21/2017	7:35:14 AM	6	-2.45	37	34	740	
1421 DW NW CORNER SX.txt	7/21/2017	9:20:14 AM	0115249975	7/21/2017	7:35:14 AM	7	-2.4	38.5	31	740	
1421 DW NW CORNER SX.txt	7/21/2017	9:35:14 AM	0115249975	7/21/2017	7:35:14 AM	8	-2.35	39.8	29	740	
1421 DW NW CORNER SX.txt	7/21/2017	9:50:14 AM	0115249975	7/21/2017	7:35:14 AM	9	-0.57	40.3	28	740	
1421 DW NW CORNER SX.txt	7/21/2017	10:05:14 AM	0115249975	7/21/2017	7:35:14 AM	10	-0.57	40.6	27	740	
1421 DW NW CORNER SX.txt	7/21/2017	10:20:14 AM	0115249975	7/21/2017	7:35:14 AM	11	2.29	40.4	26	740	
1421 DW NW CORNER SX.txt	7/21/2017	10:35:14 AM	0115249975	7/21/2017	7:35:14 AM	12	0.49	39.9	27	740	
1421 DW NW CORNER SX.txt	7/21/2017	10:50:14 AM	0115249975	7/21/2017	7:35:14 AM	13	-0.02	39.5	28	740	
1421 DW NW CORNER SX.txt	7/21/2017	11:05:14 AM	0115249975	7/21/2017	7:35:14 AM	14	-0.8	38.7	29	740	
1421 DW NW CORNER SX.txt	7/21/2017	11:20:14 AM	0115249975	7/21/2017	7:35:14 AM	15	-1.2	37.8	31	740	
1421 DW NW CORNER SX.txt	7/21/2017	11:35:14 AM	0115249975	7/21/2017	7:35:14 AM	16	-0.33	38	30	738	
1421 DW NW CORNER SX.txt	7/21/2017	11:50:14 AM	0115249975	7/21/2017	7:35:14 AM	17	-1.37	38.1	30	740	
1421 DW NW CORNER SX.txt	7/21/2017	12:05:14 PM	0115249975	7/21/2017	7:35:14 AM	18	-1.28	37	32	738	
1421 DW NW CORNER SX.txt	7/21/2017	12:20:14 PM	0115249975	7/21/2017	7:35:14 AM	19	-2.81	37	32	738	
1421 DW NW CORNER SX.txt	7/21/2017	12:35:14 PM	0115249975	7/21/2017	7:35:14 AM	20	-1.43	37.3	31	738	
1421 DW NW CORNER SX.txt	7/21/2017	12:50:14 PM	0115249975	7/21/2017	7:35:14 AM	21	-1.18	37.1	31	738	
1421 DW NW CORNER SX.txt	7/21/2017	1:05:14 PM	0115249975	7/21/2017	7:35:14 AM	22	6.97	36.9	32	738	
1421 DW NW CORNER SX.txt	7/21/2017	1:20:14 PM	0115249975	7/21/2017	7:35:14 AM	23	5.48	36.8	32	738	
1421 DW NW CORNER SX.txt	7/21/2017	1:35:14 PM	0115249975	7/21/2017	7:35:14 AM	24	4.18	36.4	32	738	
1421 DW NW CORNER SX.txt	7/21/2017	1:50:14 PM	0115249975	7/21/2017	7:35:14 AM	25	2.85	36.1	34	738	
1421 DW NW CORNER SX.txt	7/21/2017	2:05:14 PM	0115249975	7/21/2017	7:35:14 AM	26	-0.65	35.8	34	738	
1421 DW NW CORNER SX.txt	7/21/2017	2:20:14 PM	0115249975	7/21/2017	7:35:14 AM	27	-0.66	36.1	32	738	
1421 DW NW CORNER SX.txt	7/21/2017	2:35:14 PM	0115249975	7/21/2017	7:35:14 AM	28	-0.25	36.1	32	738	
1421 DW NW CORNER SX.txt	7/21/2017	2:50:14 PM	0115249975	7/21/2017	7:35:14 AM	29	1.6	36	33	738	
1421 DW NW CORNER SX.txt	7/21/2017	3:05:14 PM	0115249975	7/21/2017	7:35:14 AM	30	3.62	36.1	32	738	
1421 DW NW CORNER SX.txt	7/21/2017	3:20:14 PM	0115249975	7/21/2017	7:35:14 AM	31	2.92	36.4	30	738	
1421 DW NW CORNER SX.txt	7/21/2017	3:35:14 PM	0115249975	7/21/2017	7:35:14 AM	32	-0.56	36.4	31	738	
1421 DW NW CORNER SX.txt	7/21/2017	3:50:14 PM	0115249975	7/21/2017	7:35:14 AM	33	-0.01	36.9	29	738	
1428 DW NE CORNER SX.txt	7/21/2017	7:50:09 AM	0115250007	7/21/2017	7:35:09 AM	1	0.52	20.3	83	740	
1428 DW NE CORNER SX.txt	7/21/2017	8:05:09 AM	0115250007	7/21/2017	7:35:09 AM	2	-0.31	23.7	75	740	
1428 DW NE CORNER SX.txt	7/21/2017	8:20:09 AM	0115250007	7/21/2017	7:35:09 AM	3	-0.2	26.6	66	740	
1428 DW NE CORNER SX.txt	7/21/2017	8:35:09 AM	0115250007	7/21/2017	7:35:09 AM	4	-0.01	28.6	59	740	
1428 DW NE CORNER SX.txt	7/21/2017	8:50:09 AM	0115250007	7/21/2017	7:35:09 AM	5	0.16	29.6	56	740	
1428 DW NE CORNER SX.txt	7/21/2017	9:05:09 AM	0115250007	7/21/2017	7:35:09 AM	6	0.16	30.8	54	740	
1428 DW NE CORNER SX.txt	7/21/2017	9:20:09 AM	0115250007	7/21/2017	7:35:09 AM	7	0.82	31.9	50	740	
1428 DW NE CORNER SX.txt	7/21/2017	9:35:09 AM	0115250007	7/21/2017	7:35:09 AM	8	1.35	31.9	50	740	
1428 DW NE CORNER SX.txt	7/21/2017	9:50:09 AM	0115250007	7/21/2017	7:35:09 AM	9	1.46	32	49	740	
1428 DW NE CORNER SX.txt	7/21/2017	10:05:09 AM	0115250007	7/21/2017	7:35:09 AM	10	2.3	32.2	48	740	
1428 DW NE CORNER SX.txt	7/21/2017	10:20:09 AM	0115250007	7/21/2017	7:35:09 AM	11	3.1	30.6	50	740	
1428 DW NE CORNER SX.txt	7/21/2017	10:35:09 AM	0115250007	7/21/2017	7:35:09 AM	12	3.55	30.4	52	740	
1428 DW NE CORNER SX.txt	7/21/2017	10:50:09 AM	0115250007	7/21/2017	7:35:09 AM	13	2.44	30.3	52	740	
1428 DW NE CORNER SX.txt	7/21/2017	11:05:09 AM	0115250007	7/21/2017	7:35:09 AM	14	2.28	30.2	52	740	
1428 DW NE CORNER SX.txt	7/21/2017	11:20:09 AM	0115250007	7/21/2017	7:35:09 AM	15	1.68	30.6	52	740	
1428 DW NE CORNER SX.txt	7/21/2017	11:35:09 AM	0115250007	7/21/2017	7:35:09 AM	16	1.24	31.6	49	740	
1428 DW NE CORNER SX.txt	7/21/2017	11:50:09 AM	0115250007	7/21/2017	7:35:09 AM	17	1.57	32.1	47	740	
1428 DW NE CORNER SX.txt	7/21/2017	12:05:09 PM	0115250007	7/21/2017	7:35:09 AM	18	1.28	32.3	46	740	
1428 DW NE CORNER SX.txt	7/21/2017	12:20:09 PM	0115250007	7/21/2017	7:35:09 AM	19	0.99	33.4	44	740	
1428 DW NE CORNER SX.txt	7/21/2017	12:35:09 PM	0115250007	7/21/2017	7:35:09 AM	20	1.36	33.7	43	740	
1428 DW NE CORNER SX.txt	7/21/2017	12:50:09 PM	0115250007	7/21/2017	7:35:09 AM	21	1.05	34	41	740	
1428 DW NE CORNER SX.txt	7/21/2017	1:05:09 PM	0115250007	7/21/2017	7:35:09 AM	22	2.55	34.9	41	740	
1428 DW NE CORNER SX.txt	7/21/2017	1:20:09 PM	0115250007	7/21/2017	7:35:09 AM	23	3.77	35.8	39	740	
1428 DW NE CORNER SX.txt	7/21/2017	1:35:09 PM	0115250007	7/21/2017	7:35:09 AM	24	1.74	36.2	37	740	
1428 DW NE CORNER SX.txt	7/21/2017	1:50:09 PM	0115250007	7/21/2017	7:35:09 AM	25	2.32	36.1	37	740	
1428 DW NE CORNER SX.txt	7/21/2017	2:05:09 PM	0115250007	7/21/2017	7:35:09 AM	26	1.75	35.8	38	740	
1428 DW NE CORNER SX.txt	7/21/2017	2:20:09 PM	0115250007	7/21/2017	7:35:09 AM	27	2.16	35.9	37	740	
1428 DW NE CORNER SX.txt	7/21/2017	2:35:09 PM	0115250007	7/21/2017	7:35:09 AM	28	2.4	35.7	37	740	
1428 DW NE CORNER SX.txt	7/21/2017	2:50:09 PM	0115250007	7/21/2017	7:35:09 AM	29	3.41	34.9	38	740	
1428 DW NE CORNER SX.txt	7/21/2017	3:05:09 PM	0115250007	7/21/2017	7:35:09 AM	30	3.8	34.6	39	738	
1428 DW NE CORNER SX.txt	7/21/2017	3:20:09 PM	0115250007	7/21/2017	7:35:09 AM	31	4.79	35.1	37	738	
1428 DW NE CORNER SX.txt	7/21/2017	3:35:09 PM	0115250007	7/21/2017	7:35:09 AM	32	2.79	35.4	38	738	
1428 DW NE CORNER SX.txt	7/21/2017	3:50:09 PM	0115250007	7/21/2017	7:35:09 AM	33	2.38	36	36	738	
1429 DW CENTER FENCE SX.txt	7/21/2017	11:05:00 AM	0115250009	7/21/2017	10:50:00 AM	1	-0.36	28.4	57	740	
1429 DW CENTER FENCE SX.txt	7/21/2017	11:20:00 AM	0115250009	7/21/2017	10:50:00 AM	2	-1.13	28.9	54	740	
1429 DW CENTER FENCE SX.txt	7/21/2017	11:35:00 AM	0115250009	7/21/2017	10:50:00 AM	3	-1.54	30	51	740	
1429 DW CENTER FENCE SX.txt	7/21/2017	11:50:00 AM	0115250009	7/21/2017	10:50:00 AM	4	-0.41	30.8	49	740	
1429 DW CENTER FENCE SX.txt	7/21/2017	12:05:00 PM	0115250009	7/21/2017	10:50:00 AM	5	-1.55	31	48	740	
1429 DW CENTER FENCE SX.txt	7/21/2017	12:20:00 PM	0115250009	7/21/2017	10:50:00 AM	6	-2.59	31.5	46	740	
1429 DW CENTER FENCE SX.txt	7/21/2017	12:35:00 PM	0115250009	7/21/2017	10:50:00 AM	7	-1.1	32.2	43	738	
1429 DW CENTER FENCE SX.txt	7/21/2017	12:50:00 PM	0115250009	7/21/2017	10:50:00 AM	8	-0.67	32.9	41	738	
1429 DW CENTER FENCE SX.txt	7/21/2017	1:05:00 PM	0115250009	7/21/2017	10:50:00 AM	9	4.49	33.9	40	738	
1429 DW CENTER FENCE SX.txt	7/21/2017	1:20:00 PM	0115250009	7/21/2017	10:50:00 AM	10	4.41	34.7	37	738	
1429 DW CENTER FENCE SX.txt	7/21/2017	1:35:00 PM	0115250009	7/21/2017	10:50:00 AM	11	1.2	35.3	36	738	
1429 DW CENTER FENCE SX.txt	7/21/2017	1:50:00 PM	0115250009	7/21/2017	10:50:00 AM	12	1.28	35.8	35	738	
1429 DW CENTER FENCE SX.txt	7/21/2017	2:05:00 PM	0115250009	7/21/2017	10:50:00 AM	13	-1	35.8	35	738	
1429 DW CENTER FENCE SX.txt	7/21/2017	2:20:00 PM	0115250009	7/21/2017	10:50:00 AM	14	-0.67	36.4	33	738	

Summary of CAMP Monitoring

Beech and Bonaparte

Former Sperry Remington Site - North Portion
Elmira, New York

Unit Location	Record Date	Record Time	Unit Serial Number	Start Date	Start Time	Record #	Dust Concentration in µg/m^3	Temp	RHumidity	AtmoPressure in mm/Hg	Notes
1429 DW CENTER FENCE SX.txt	7/21/2017	2:35:00 PM	0115250009	7/21/2017	10:50:00 AM	15	-0.78	36.4	33	738	
1429 DW CENTER FENCE SX.txt	7/21/2017	2:50:00 PM	0115250009	7/21/2017	10:50:00 AM	16	1.22	35.9	34	738	
1429 DW CENTER FENCE SX.txt	7/21/2017	3:05:00 PM	0115250009	7/21/2017	10:50:00 AM	17	2.47	36.2	33	738	
1429 DW CENTER FENCE SX.txt	7/21/2017	3:20:00 PM	0115250009	7/21/2017	10:50:00 AM	18	4.07	37	31	738	
1429 DW CENTER FENCE SX.txt	7/21/2017	3:35:00 PM	0115250009	7/21/2017	10:50:00 AM	19	-0.56	37	32	738	
1429 DW CENTER FENCE SX.txt	7/21/2017	3:50:00 PM	0115250009	7/21/2017	10:50:00 AM	20	-3.6	37.8	30	738	
2535 UW FENCE SX.txt	7/21/2017	7:52:10 AM	CM15111015	7/21/2017	7:37:10 AM	1	0.27	21.1	76	740	
2535 UW FENCE SX.txt	7/21/2017	8:07:10 AM	CM15111015	7/21/2017	7:37:10 AM	2	-0.64	25	65	740	
2535 UW FENCE SX.txt	7/21/2017	8:22:10 AM	CM15111015	7/21/2017	7:37:10 AM	3	-1.64	28.3	55	740	
2535 UW FENCE SX.txt	7/21/2017	8:37:10 AM	CM15111015	7/21/2017	7:37:10 AM	4	-2.32	30.4	49	740	
2535 UW FENCE SX.txt	7/21/2017	8:52:10 AM	CM15111015	7/21/2017	7:37:10 AM	5	-2.04	31.9	45	740	
2535 UW FENCE SX.txt	7/21/2017	9:07:10 AM	CM15111015	7/21/2017	7:37:10 AM	6	1.49	32.9	43	740	
2535 UW FENCE SX.txt	7/21/2017	9:22:10 AM	CM15111015	7/21/2017	7:37:10 AM	7	0.38	33.7	42	740	
2535 UW FENCE SX.txt	7/21/2017	9:37:10 AM	CM15111015	7/21/2017	7:37:10 AM	8	1.49	34.2	40	740	
2535 UW FENCE SX.txt	7/21/2017	9:52:10 AM	CM15111015	7/21/2017	7:37:10 AM	9	1.52	34.2	40	740	
2535 UW FENCE SX.txt	7/21/2017	10:07:10 AM	CM15111015	7/21/2017	7:37:10 AM	10	0.92	34.5	38	740	
2535 UW FENCE SX.txt	7/21/2017	10:22:10 AM	CM15111015	7/21/2017	7:37:10 AM	11	1.05	34.2	38	740	
2535 UW FENCE SX.txt	7/21/2017	10:37:10 AM	CM15111015	7/21/2017	7:37:10 AM	12	2.23	34.3	39	740	
2535 UW FENCE SX.txt	7/21/2017	10:52:10 AM	CM15111015	7/21/2017	7:37:10 AM	13	4.08	34.4	38	740	
2535 UW FENCE SX.txt	7/21/2017	11:07:10 AM	CM15111015	7/21/2017	7:37:10 AM	14	3.25	34.2	39	740	
2535 UW FENCE SX.txt	7/21/2017	11:22:10 AM	CM15111015	7/21/2017	7:37:10 AM	15	5.46	34.1	39	740	
2535 UW FENCE SX.txt	7/21/2017	11:37:10 AM	CM15111015	7/21/2017	7:37:10 AM	16	-0.53	34.5	38	740	
2535 UW FENCE SX.txt	7/21/2017	11:52:10 AM	CM15111015	7/21/2017	7:37:10 AM	17	0.18	34.4	38	740	
2535 UW FENCE SX.txt	7/21/2017	12:07:10 PM	CM15111015	7/21/2017	7:37:10 AM	18	-1.1	34.1	38	740	
2535 UW FENCE SX.txt	7/21/2017	12:22:10 PM	CM15111015	7/21/2017	7:37:10 AM	19	-1.48	34.6	37	740	
2535 UW FENCE SX.txt	7/21/2017	12:37:10 PM	CM15111015	7/21/2017	7:37:10 AM	20	-0.62	34.9	36	740	
2535 UW FENCE SX.txt	7/21/2017	12:52:10 PM	CM15111015	7/21/2017	7:37:10 AM	21	-1.11	35.3	35	740	
2535 UW FENCE SX.txt	7/21/2017	1:07:10 PM	CM15111015	7/21/2017	7:37:10 AM	22	6.12	35.9	35	740	
2535 UW FENCE SX.txt	7/21/2017	1:22:10 PM	CM15111015	7/21/2017	7:37:10 AM	23	-0.42	36.5	33	740	
2535 UW FENCE SX.txt	7/21/2017	1:37:10 PM	CM15111015	7/21/2017	7:37:10 AM	24	-0.32	36.8	32	740	
2535 UW FENCE SX.txt	7/21/2017	1:52:10 PM	CM15111015	7/21/2017	7:37:10 AM	25	1.13	36.6	33	740	
2535 UW FENCE SX.txt	7/21/2017	2:07:10 PM	CM15111015	7/21/2017	7:37:10 AM	26	2.45	36.4	33	740	
2535 UW FENCE SX.txt	7/21/2017	2:22:10 PM	CM15111015	7/21/2017	7:37:10 AM	27	1.93	36.9	31	740	
2535 UW FENCE SX.txt	7/21/2017	2:37:10 PM	CM15111015	7/21/2017	7:37:10 AM	28	2.2	36.8	32	740	
2535 UW FENCE SX.txt	7/21/2017	2:52:10 PM	CM15111015	7/21/2017	7:37:10 AM	29	1.31	36.4	32	740	
2535 UW FENCE SX.txt	7/21/2017	3:07:10 PM	CM15111015	7/21/2017	7:37:10 AM	30	5.05	36.8	31	740	
2535 UW FENCE SX.txt	7/21/2017	3:22:10 PM	CM15111015	7/21/2017	7:37:10 AM	31	4.51	36.9	31	738	
2535 UW FENCE SX.txt	7/21/2017	3:37:10 PM	CM15111015	7/21/2017	7:37:10 AM	32	12.54	37	31	738	
2535 UW FENCE SX.txt	7/21/2017	3:52:10 PM	CM15111015	7/21/2017	7:37:10 AM	33	4.13	37.3	30	740	
818 DW NW FENCE SX.txt	7/21/2017	7:50:02 AM	0115249311	7/21/2017	7:35:02 AM	1	2.02	23.5	70	738	
818 DW NW FENCE SX.txt	7/21/2017	8:05:02 AM	0115249311	7/21/2017	7:35:02 AM	2	5.13	27.6	59	740	
818 DW NW FENCE SX.txt	7/21/2017	8:20:02 AM	0115249311	7/21/2017	7:35:02 AM	3	7.55	31.1	50	740	
818 DW NW FENCE SX.txt	7/21/2017	8:35:02 AM	0115249311	7/21/2017	7:35:02 AM	4	9.92	34.1	43	740	
818 DW NW FENCE SX.txt	7/21/2017	8:50:02 AM	0115249311	7/21/2017	7:35:02 AM	5	10.76	36.1	39	740	
818 DW NW FENCE SX.txt	7/21/2017	9:05:02 AM	0115249311	7/21/2017	7:35:02 AM	6	11	37.8	36	740	
818 DW NW FENCE SX.txt	7/21/2017	9:20:02 AM	0115249311	7/21/2017	7:35:02 AM	7	10.53	38.9	34	740	
818 DW NW FENCE SX.txt	7/21/2017	9:35:02 AM	0115249311	7/21/2017	7:35:02 AM	8	10.71	40.1	32	740	
818 DW NW FENCE SX.txt	7/21/2017	9:50:02 AM	0115249311	7/21/2017	7:35:02 AM	9	11.33	41.3	30	740	
818 DW NW FENCE SX.txt	7/21/2017	10:05:02 AM	0115249311	7/21/2017	7:35:02 AM	10	11.8	41.7	29	740	
818 DW NW FENCE SX.txt	7/21/2017	10:20:02 AM	0115249311	7/21/2017	7:35:02 AM	11	11.89	42	28	740	
818 DW NW FENCE SX.txt	7/21/2017	10:35:02 AM	0115249311	7/21/2017	7:35:02 AM	12	12.66	42.5	27	740	
818 DW NW FENCE SX.txt	7/21/2017	10:50:02 AM	0115249311	7/21/2017	7:35:02 AM	13	12.2	42.8	26	740	
818 DW NW FENCE SX.txt	7/21/2017	11:05:02 AM	0115249311	7/21/2017	7:35:02 AM	14	12.28	42.1	28	740	
818 DW NW FENCE SX.txt	7/21/2017	11:20:02 AM	0115249311	7/21/2017	7:35:02 AM	15	11.69	41.5	29	740	
818 DW NW FENCE SX.txt	7/21/2017	11:35:02 AM	0115249311	7/21/2017	7:35:02 AM	16	11.44	41.7	28	740	
818 DW NW FENCE SX.txt	7/21/2017	11:50:02 AM	0115249311	7/21/2017	7:35:02 AM	17	12.03	41.5	28	740	
818 DW NW FENCE SX.txt	7/21/2017	12:05:02 PM	0115249311	7/21/2017	7:35:02 AM	18	11.68	39.9	30	740	
818 DW NW FENCE SX.txt	7/21/2017	12:20:02 PM	0115249311	7/21/2017	7:35:02 AM	19	11.36	39.9	30	740	
818 DW NW FENCE SX.txt	7/21/2017	12:35:02 PM	0115249311	7/21/2017	7:35:02 AM	20	11.99	40.3	29	740	
818 DW NW FENCE SX.txt	7/21/2017	12:50:02 PM	0115249311	7/21/2017	7:35:02 AM	21	11.47	40.8	28	740	
818 DW NW FENCE SX.txt	7/21/2017	1:05:02 PM	0115249311	7/21/2017	7:35:02 AM	22	11.98	40.9	28	740	
818 DW NW FENCE SX.txt	7/21/2017	1:20:02 PM	0115249311	7/21/2017	7:35:02 AM	23	12.09	41.2	28	738	
818 DW NW FENCE SX.txt	7/21/2017	1:35:02 PM	0115249311	7/21/2017	7:35:02 AM	24	12.42	41	27	738	
818 DW NW FENCE SX.txt	7/21/2017	1:50:02 PM	0115249311	7/21/2017	7:35:02 AM	25	13.02	40.4	29	738	
818 DW NW FENCE SX.txt	7/21/2017	2:05:02 PM	0115249311	7/21/2017	7:35:02 AM	26	14.25	39.9	29	738	
818 DW NW FENCE SX.txt	7/21/2017	2:20:02 PM	0115249311	7/21/2017	7:35:02 AM	27	14.12	39.8	28	738	
818 DW NW FENCE SX.txt	7/21/2017	2:35:02 PM	0115249311	7/21/2017	7:35:02 AM	28	14	39.1	30	738	
818 DW NW FENCE SX.txt	7/21/2017	2:50:02 PM	0115249311	7/21/2017	7:35:02 AM	29	20.53	37.9	32	738	
818 DW NW FENCE SX.txt	7/21/2017	3:05:02 PM	0115249311	7/21/2017	7:35:02 AM	30	15.83	37.2	33	738	
818 DW NW FENCE SX.txt	7/21/2017	3:20:02 PM	0115249311	7/21/2017	7:35:02 AM	31	18.82	37	33	738	
818 DW NW FENCE SX.txt	7/21/2017	3:35:02 PM	0115249311	7/21/2017	7:35:02 AM	32	14.21	37	33	738	
818 DW NW FENCE SX.txt	7/21/2017	3:50:02 PM	0115249311	7/21/2017	7:35:02 AM	33	13.32	37	33	738	
0818 DW NW FENCE SX.txt	7/22/2017	7:44:41 AM	0115249311	7/22/2017	7:29:41 AM	1	-5.65	20.8	68	738	
0818 DW NW FENCE SX.txt	7/22/2017	7:59:41 AM	0115249311	7/22/2017	7:29:41 AM	2	-3.94	22.1	66	738	
0818 DW NW FENCE SX.txt	7/22/2017	8:14:41 AM	0115249311	7/22/2017	7:29:41 AM	3	-4.12	23.2	64	738	
0818 DW NW FENCE SX.txt	7/22/2017	8:29:41 AM	0115249311	7/22/2017	7:29:41 AM	4	-3.98	23.8	62	738	
0818 DW NW FENCE SX.txt	7/22/2017	8:44:41 AM	0115249311	7/22/2017	7:29:41 AM	5	-2.26	24.3	61	738	
0818 DW NW FENCE SX.txt	7/22/2017	8:59:41 AM	0115249311	7/22/2017	7:29:41 AM	6	3.14	24.3	62	738	
0818 DW NW FENCE SX.txt	7/22/2017	9:14:41 AM	0115249311	7/22/2017	7:29:41 AM	7	-2.51	24.6	62	738	
0818 DW NW FENCE SX.txt	7/22/2017	9:29:41 AM	0115249311	7/22/2017	7:29:41 AM	8	-0.82	25.2	61	738	
0818 DW NW FENCE SX.txt	7/22/2017	9:44:41 AM	0115249311	7/22/2017	7:29:41 AM	9	4.94	25.7	60	738	
0818 DW NW FENCE SX.txt	7/22/2017	9:59:41 AM	0115249311	7/22/2017	7:29:41 AM	10	2.14	26.3	59	738	
0818 DW NW FENCE SX.txt	7/22/2017	10:14:41 AM	0115249311	7/22/2017	7:29:41 AM	11	4.2	27.2	56	738	
0818 DW NW FENCE SX.txt	7/22/2017	10:29:41 AM	0115249311	7/22/2017	7:29:41 AM	12	1.72	28.5	53	738	
0818 DW NW FENCE SX.txt	7/22/2017	10:44:41 AM	0115249311	7/22/2017	7:29:41 AM	13	7.48	30.5	47	738	
0818 DW NW FENCE SX.txt	7/22/2017	10:59:41 AM	0115249311	7/22/2017	7:29:41 AM	14	-2.53	31.5	45	738	
0818 DW NW FENCE SX.txt	7/22/2017	11:14:41 AM	0115249311	7/22/2017	7:29:41 AM	15	-2.05	31.9	44	738	
0818 DW NW FENCE SX.txt	7/22/2017	11:29:41 AM	0115249311	7/22/2017	7:29:41 AM	16	-2.1	31.9	44	738	
0818 DW NW FENCE SX.txt	7/22/2017	11:44:41 AM	0115249311	7/22/2017	7:29:41 AM	17	-1.74	31.3	46	738	
0818 DW NW FENCE SX.txt	7/22/2017	11:59:41 AM	0115249311	7/22/2017	7:29:41 AM	18	-1.7	31.1	47	738	
0818 DW NW FENCE SX.txt	7/22/2017	12:14:41 PM	0115249311	7/22/2017	7:29:41 AM	19	-2.06	30.7	48	738	
0818 DW NW FENCE SX.txt	7/22/2017	12:29:41 PM	0115249311	7/22/2017	7:29:41 AM	20	-1.99	30.1	49	738	
0818 DW NW FENCE SX.txt	7/22/2017	12:44:41 PM	0115249311	7/22/2017	7:29:41 AM	21	-1.98	29.6	49	738	
0818 DW NW FENCE SX.txt	7/22/2017	12:59:41 PM	0115249311	7/22/2017	7:29:41 AM	22	-2.15	29.3	51	738	
0818 DW NW FENCE SX.txt	7/22/2017	1:14:41 PM	0115249311	7/22/2017	7:29:41 AM	23	-2.19	28.9	52	738	
0818 DW NW FENCE SX.txt	7/22/2017	1:29:41 PM	0115249311	7/22/2017	7:29:41 AM	24	-2.64	28.6	55	736	
0818 DW NW FENCE SX.txt	7/22/2017	1:44:41 PM	0115249311	7/22/2017	7:29:41 AM	25	-2.09	28.5	56	736	
0818 DW NW FENCE SX.txt	7/22/2017	1:59:41 PM	0115249311	7/22/2017	7:29:41 AM	26	0.7	28.5	55	736	
0818 DW NW FENCE SX.txt	7/22/2017	2:14:41 PM	0115249311	7/22/2017	7:29:41 AM	27	6.62	28.6	55	736	
0818 DW NW FENCE SX.txt	7/22/2017	2:29:41 PM	0115249311	7/22/2017	7:29:41 AM	28	0.35	28.8	54	736	
0818 DW NW FENCE SX.txt	7/22/2017	2:44:41 PM	0115249311	7/22/2017	7:29:41 AM	29	-1.68	29.1	51	736	
0818 DW NW FENCE SX.txt	7/22/2017	2:59:41 PM	0115249311	7/22/2017	7:29:41 AM	30	2	29.5	50	736	
0818 DW NW FENCE SX.txt	7/22/2017	3:14:41 PM	0115249311	7/22/2017	7:29:41 AM	31	-0.25	29.7	50	736	
0818 DW NW FENCE SX.txt	7/22/2017	3:29:41 PM	0115249311	7/22/2017	7:29:41 AM	32	1.65	29.5	51	736	
0818 DW NW FENCE SX.txt	7/22/2017	3:44:41 PM	0115249311	7/22/2017	7:29:41 AM	33	0.8	29.2	51	736	
0818 DW NW FENCE SX.txt	7/22/2017	3:59:41 PM	0115249311	7/22/2017	7:29:41 AM	34	-0.9	28.9	51	736	
0818 DW NW FENCE SX.txt	7/22/2017	4:14:41 PM	0115249311	7/22/2017	7:29:41 AM	35	1.05	28.8	53	736	
0818 DW NW FENCE SX.txt	7/22/2017	4:29:41 PM	0115249311	7/22/2017	7:29:41 AM	36	0.34	28.8	52	736	
0818 DW NW FENCE SX.txt	7/22/2017	4:44:41 PM	0115249311	7/22/2017	7:29:41 AM	37	2.66	28.7	56	736	
0818 DW NW FENCE SX.txt	7/22/2017	4:59:41 PM	0115249311	7/22/2017	7:29:41 AM	38	0.24	28.6	58	736	
1421 DW NW CORNER SX.txt	7/22/2017	7:41:27 AM	0115249975	7/22/2017	7:26:27 AM	1	-0.36	20	69	738	
1421 DW NW CORNER SX.txt	7/22/2017	7:56:27 AM	0115249975	7/22/2017	7:26:27 AM	2	-0.33	21.9	65	738	
1421 DW NW CORNER SX.txt	7/22/2017	8:11:27 AM	0115249975	7/22/2017	7:26:27 AM	3	-0.9	23.1	62	738	
1421 DW NW CORNER SX.txt	7/22/2017	8:26:27 AM	0115249975	7/22/2017	7:26:27 AM	4	-1	24	58	738	
1421 DW NW CORNER SX.txt	7/22/2017	8:41:27 AM	0115249975	7/22/2017	7:26:27 AM	5	-0.65	24	59	738	
1421 DW NW CORNER SX.txt	7/22/2017	8:56:27 AM	0115249975	7/22/2017	7:26:27 AM	6	-0.12	24.3	60	738	
1421 DW NW CORNER SX.txt	7/22/2017	9:11:27 AM	0115249975	7/22/2017	7:26:27 AM	7	-0.04	24.3	60	738	
1421 DW NW CORNER SX.txt	7/22/2017	9:26:27 AM	0115249975	7/22/2017	7:26:27 AM	8	-0.41	24.4	60	738	
1421 DW NW CORNER SX.txt	7/22/2017	9:41:27 AM	0115249975	7/22/2017	7:26:27 AM	9	-0.4	24.8	59	738	
1421 DW NW CORNER SX.txt	7/22/2017	9:56:27 AM	0115249975	7/22/2017	7:26:27 AM	10	-0.68	25.2	59	738	
1421 DW NW CORNER SX.txt	7/22/2017	10:11:27 AM	0115249975	7/22/2017	7:26:27 AM	11	-0.63	25.7	57	738	
1421 DW NW CORNER SX.txt	7/22/2017	10:26:27 AM	0115249975	7/22/2017	7:26:27 AM	12	-0.31	26.9	54	738	
1421 DW NW CORNER SX.txt	7/22/2017	10:41:27 AM	0115249975	7/22/2017	7:26:27 AM	13	-0.03	28.6	50	738	
1421 DW NW CORNER SX.txt	7/22/2017	10:56:27 AM	0115249975	7/22/2017	7:26:27 AM	14	-0.08	30.1	45	738	
1421 DW NW CORNER SX.txt	7/22/2017	11:11:27 AM	0115249975	7/22/2017	7:26:27 AM	15	0.17	31	43	738	

Summary of CAMP Monitoring

Beech and Bonaparte

Former Sperry Remington Site - North Portion
Elmira, New York

Unit Location	Record Date	Record Time	Unit Serial Number	Start Date	Start Time	Record #	Dust Concentration in µg/m^3	Temp	RHumidity	AtmoPressure in mm/Hg	Notes
1421 DW NW CORNER SX.txt	7/22/2017	11:26:27 AM	0115249975	7/22/2017	7:26:27 AM	16	0.29	31.2	43	738	
1421 DW NW CORNER SX.txt	7/22/2017	11:41:27 AM	0115249975	7/22/2017	7:26:27 AM	17	0.77	30.7	44	738	
1421 DW NW CORNER SX.txt	7/22/2017	11:56:27 AM	0115249975	7/22/2017	7:26:27 AM	18	1.14	30.3	46	738	
1421 DW NW CORNER SX.txt	7/22/2017	12:11:27 PM	0115249975	7/22/2017	7:26:27 AM	19	0.53	30	46	738	
1421 DW NW CORNER SX.txt	7/22/2017	12:26:27 PM	0115249975	7/22/2017	7:26:27 AM	20	0.45	29.3	49	738	
1421 DW NW CORNER SX.txt	7/22/2017	12:41:27 PM	0115249975	7/22/2017	7:26:27 AM	21	0.42	28.7	50	738	
1421 DW NW CORNER SX.txt	7/22/2017	12:56:27 PM	0115249975	7/22/2017	7:26:27 AM	22	0.3	28.4	51	738	
1421 DW NW CORNER SX.txt	7/22/2017	1:11:27 PM	0115249975	7/22/2017	7:26:27 AM	23	0.4	28.1	53	736	
1421 DW NW CORNER SX.txt	7/22/2017	1:26:27 PM	0115249975	7/22/2017	7:26:27 AM	24	0.13	27.7	54	736	
1421 DW NW CORNER SX.txt	7/22/2017	1:41:27 PM	0115249975	7/22/2017	7:26:27 AM	25	0.51	27.5	55	736	
1421 DW NW CORNER SX.txt	7/22/2017	1:56:27 PM	0115249975	7/22/2017	7:26:27 AM	26	0.73	27.7	55	736	
1421 DW NW CORNER SX.txt	7/22/2017	2:11:27 PM	0115249975	7/22/2017	7:26:27 AM	27	1.98	27.9	55	736	
1421 DW NW CORNER SX.txt	7/22/2017	2:26:27 PM	0115249975	7/22/2017	7:26:27 AM	28	1.04	27.9	54	736	
1421 DW NW CORNER SX.txt	7/22/2017	2:41:27 PM	0115249975	7/22/2017	7:26:27 AM	29	0.8	28.1	53	736	
1421 DW NW CORNER SX.txt	7/22/2017	2:56:27 PM	0115249975	7/22/2017	7:26:27 AM	30	1.23	28.7	51	736	
1421 DW NW CORNER SX.txt	7/22/2017	3:11:27 PM	0115249975	7/22/2017	7:26:27 AM	31	1.38	28.8	49	736	
1421 DW NW CORNER SX.txt	7/22/2017	3:26:27 PM	0115249975	7/22/2017	7:26:27 AM	32	2.77	28.7	52	736	
1421 DW NW CORNER SX.txt	7/22/2017	3:41:27 PM	0115249975	7/22/2017	7:26:27 AM	33	2.34	28.2	53	736	
1421 DW NW CORNER SX.txt	7/22/2017	3:56:27 PM	0115249975	7/22/2017	7:26:27 AM	34	2	27.7	54	736	
1421 DW NW CORNER SX.txt	7/22/2017	4:11:27 PM	0115249975	7/22/2017	7:26:27 AM	35	2.13	27.6	55	736	
1421 DW NW CORNER SX.txt	7/22/2017	4:26:27 PM	0115249975	7/22/2017	7:26:27 AM	36	6.42	27.7	54	736	
1421 DW NW CORNER SX.txt	7/22/2017	4:41:27 PM	0115249975	7/22/2017	7:26:27 AM	37	4.42	27.6	55	736	
1421 DW NW CORNER SX.txt	7/22/2017	4:56:27 PM	0115249975	7/22/2017	7:26:27 AM	38	4.8	27.5	58	734	
1421 DW NW CORNER SX.txt	7/22/2017	5:11:27 PM	0115249975	7/22/2017	7:26:27 AM	39	3.42	27.6	57	734	
1422 DW NE FENCE SP.txt	7/22/2017	4:12:34 PM	0115249980	7/22/2017	3:57:34 PM	1	9.94	27.3	57	736	
1422 DW NE FENCE SP.txt	7/22/2017	4:27:34 PM	0115249980	7/22/2017	3:57:34 PM	2	10.94	27.5	57	736	
1422 DW NE FENCE SP.txt	7/22/2017	4:42:34 PM	0115249980	7/22/2017	3:57:34 PM	3	10.93	27.4	58	736	
1422 DW NE FENCE SP.txt	7/22/2017	4:57:34 PM	0115249980	7/22/2017	3:57:34 PM	4	16.21	27.2	59	736	
1422 DW NE FENCE SP.txt	7/22/2017	5:12:34 PM	0115249980	7/22/2017	3:57:34 PM	5	10.48	27	60	736	
1422 DW NE FENCE SP.txt	7/22/2017	5:27:34 PM	0115249980	7/22/2017	3:57:34 PM	6	10.08	26.8	61	736	
1428 DW NE CORNER SX.txt	7/22/2017	7:43:22 AM	0115250007	7/22/2017	7:28:22 AM	1	1.98	18.6	73	738	
1428 DW NE CORNER SX.txt	7/22/2017	7:58:22 AM	0115250007	7/22/2017	7:28:22 AM	2	1.94	18.9	78	738	
1428 DW NE CORNER SX.txt	7/22/2017	8:13:22 AM	0115250007	7/22/2017	7:28:22 AM	3	1.22	20	76	738	
1428 DW NE CORNER SX.txt	7/22/2017	8:28:22 AM	0115250007	7/22/2017	7:28:22 AM	4	0.79	21.5	72	738	
1428 DW NE CORNER SX.txt	7/22/2017	8:43:22 AM	0115250007	7/22/2017	7:28:22 AM	5	1.24	22.3	69	738	
1428 DW NE CORNER SX.txt	7/22/2017	8:58:22 AM	0115250007	7/22/2017	7:28:22 AM	6	1.64	22.9	68	738	
1428 DW NE CORNER SX.txt	7/22/2017	9:13:22 AM	0115250007	7/22/2017	7:28:22 AM	7	0.57	23.5	67	738	
1428 DW NE CORNER SX.txt	7/22/2017	9:28:22 AM	0115250007	7/22/2017	7:28:22 AM	8	0.55	24.7	64	738	
1428 DW NE CORNER SX.txt	7/22/2017	9:43:22 AM	0115250007	7/22/2017	7:28:22 AM	9	0.3	25.8	61	738	
1428 DW NE CORNER SX.txt	7/22/2017	9:58:22 AM	0115250007	7/22/2017	7:28:22 AM	10	0.56	26.6	59	738	
1428 DW NE CORNER SX.txt	7/22/2017	10:13:22 AM	0115250007	7/22/2017	7:28:22 AM	11	0.4	27.5	57	738	
1428 DW NE CORNER SX.txt	7/22/2017	10:28:22 AM	0115250007	7/22/2017	7:28:22 AM	12	0.66	28.8	54	738	
1428 DW NE CORNER SX.txt	7/22/2017	10:43:22 AM	0115250007	7/22/2017	7:28:22 AM	13	0.59	30.5	50	740	
1428 DW NE CORNER SX.txt	7/22/2017	10:58:22 AM	0115250007	7/22/2017	7:28:22 AM	14	0.68	31.6	47	740	
1428 DW NE CORNER SX.txt	7/22/2017	11:13:22 AM	0115250007	7/22/2017	7:28:22 AM	15	0.68	32.3	45	740	
1428 DW NE CORNER SX.txt	7/22/2017	11:28:22 AM	0115250007	7/22/2017	7:28:22 AM	16	0.62	33.1	44	740	
1428 DW NE CORNER SX.txt	7/22/2017	11:43:22 AM	0115250007	7/22/2017	7:28:22 AM	17	0.96	33.2	44	738	
1428 DW NE CORNER SX.txt	7/22/2017	11:58:22 AM	0115250007	7/22/2017	7:28:22 AM	18	0.99	33.2	44	738	
1428 DW NE CORNER SX.txt	7/22/2017	12:13:22 PM	0115250007	7/22/2017	7:28:22 AM	19	0.97	33.1	44	738	
1428 DW NE CORNER SX.txt	7/22/2017	12:28:22 PM	0115250007	7/22/2017	7:28:22 AM	20	1	32.5	45	738	
1428 DW NE CORNER SX.txt	7/22/2017	12:43:22 PM	0115250007	7/22/2017	7:28:22 AM	21	1.01	32	46	738	
1428 DW NE CORNER SX.txt	7/22/2017	12:58:22 PM	0115250007	7/22/2017	7:28:22 AM	22	1.06	31.7	48	738	
1428 DW NE CORNER SX.txt	7/22/2017	1:13:22 PM	0115250007	7/22/2017	7:28:22 AM	23	1.1	31.2	49	738	
1428 DW NE CORNER SX.txt	7/22/2017	1:28:22 PM	0115250007	7/22/2017	7:28:22 AM	24	0.7	30.7	50	738	
1428 DW NE CORNER SX.txt	7/22/2017	1:43:22 PM	0115250007	7/22/2017	7:28:22 AM	25	1.23	30.5	51	738	
1428 DW NE CORNER SX.txt	7/22/2017	1:58:22 PM	0115250007	7/22/2017	7:28:22 AM	26	1.45	30.7	51	738	
1428 DW NE CORNER SX.txt	7/22/2017	2:13:22 PM	0115250007	7/22/2017	7:28:22 AM	27	2.07	30.9	51	738	
1428 DW NE CORNER SX.txt	7/22/2017	2:28:22 PM	0115250007	7/22/2017	7:28:22 AM	28	1.56	31.1	50	738	
1428 DW NE CORNER SX.txt	7/22/2017	2:43:22 PM	0115250007	7/22/2017	7:28:22 AM	29	1.28	31.3	49	738	
1428 DW NE CORNER SX.txt	7/22/2017	2:58:22 PM	0115250007	7/22/2017	7:28:22 AM	30	1.2	31.5	48	738	
1428 DW NE CORNER SX.txt	7/22/2017	3:13:22 PM	0115250007	7/22/2017	7:28:22 AM	31	1.93	31.7	47	738	
1428 DW NE CORNER SX.txt	7/22/2017	3:28:22 PM	0115250007	7/22/2017	7:28:22 AM	32	1.83	31.6	49	738	
1428 DW NE CORNER SX.txt	7/22/2017	3:43:22 PM	0115250007	7/22/2017	7:28:22 AM	33	1.65	31	50	736	
1428 DW NE CORNER SX.txt	7/22/2017	3:58:22 PM	0115250007	7/22/2017	7:28:22 AM	34	2.44	30.5	51	736	
1428 DW NE CORNER SX.txt	7/22/2017	4:13:22 PM	0115250007	7/22/2017	7:28:22 AM	35	2.44	30.4	51	736	
1428 DW NE CORNER SX.txt	7/22/2017	4:28:22 PM	0115250007	7/22/2017	7:28:22 AM	36	3.36	30.5	51	736	
1428 DW NE CORNER SX.txt	7/22/2017	4:43:22 PM	0115250007	7/22/2017	7:28:22 AM	37	3.95	30.4	52	736	
1428 DW NE CORNER SX.txt	7/22/2017	4:58:22 PM	0115250007	7/22/2017	7:28:22 AM	38	4	30.4	53	736	
1428 DW NE CORNER SX.txt	7/22/2017	5:13:22 PM	0115250007	7/22/2017	7:28:22 AM	39	6.2	30.1	48	736	
1428 DW NE CORNER SX.txt	7/22/2017	5:28:22 PM	0115250007	7/22/2017	7:28:22 AM	40	1.45	27.6	37	736	
1429 DW N CENTER SX.txt	7/22/2017	7:42:09 AM	0115250009	7/22/2017	7:27:09 AM	1	-0.13	18.9	73	738	
1429 DW N CENTER SX.txt	7/22/2017	7:57:09 AM	0115250009	7/22/2017	7:27:09 AM	2	0.26	19.3	75	738	
1429 DW N CENTER SX.txt	7/22/2017	8:12:09 AM	0115250009	7/22/2017	7:27:09 AM	3	0.2	19.8	74	738	
1429 DW N CENTER SX.txt	7/22/2017	8:27:09 AM	0115250009	7/22/2017	7:27:09 AM	4	-0.11	20.5	70	738	
1429 DW N CENTER SX.txt	7/22/2017	8:42:09 AM	0115250009	7/22/2017	7:27:09 AM	5	-0.17	21	68	738	
1429 DW N CENTER SX.txt	7/22/2017	8:57:09 AM	0115250009	7/22/2017	7:27:09 AM	6	0.57	21.4	69	738	
1429 DW N CENTER SX.txt	7/22/2017	9:12:09 AM	0115250009	7/22/2017	7:27:09 AM	7	-0.01	21.7	69	738	
1429 DW N CENTER SX.txt	7/22/2017	9:27:09 AM	0115250009	7/22/2017	7:27:09 AM	8	-0.27	22.1	69	738	
1429 DW N CENTER SX.txt	7/22/2017	9:42:09 AM	0115250009	7/22/2017	7:27:09 AM	9	-0.54	22.7	68	738	
1429 DW N CENTER SX.txt	7/22/2017	9:57:09 AM	0115250009	7/22/2017	7:27:09 AM	10	-0.52	23.4	67	738	
1429 DW N CENTER SX.txt	7/22/2017	10:12:09 AM	0115250009	7/22/2017	7:27:09 AM	11	-0.71	24.3	65	738	
1429 DW N CENTER SX.txt	7/22/2017	10:27:09 AM	0115250009	7/22/2017	7:27:09 AM	12	-0.48	25.2	62	738	
1429 DW N CENTER SX.txt	7/22/2017	10:42:09 AM	0115250009	7/22/2017	7:27:09 AM	13	0.62	26.4	58	738	
1429 DW N CENTER SX.txt	7/22/2017	10:57:09 AM	0115250009	7/22/2017	7:27:09 AM	14	-0.32	27.6	54	738	
1429 DW N CENTER SX.txt	7/22/2017	11:12:09 AM	0115250009	7/22/2017	7:27:09 AM	15	-0.57	28.5	52	738	
1429 DW N CENTER SX.txt	7/22/2017	11:27:09 AM	0115250009	7/22/2017	7:27:09 AM	16	-0.35	29	51	738	
1429 DW N CENTER SX.txt	7/22/2017	11:42:09 AM	0115250009	7/22/2017	7:27:09 AM	17	-0.11	28.9	52	738	
1429 DW N CENTER SX.txt	7/22/2017	11:57:09 AM	0115250009	7/22/2017	7:27:09 AM	18	-0.4	28.9	52	738	
1429 DW N CENTER SX.txt	7/22/2017	12:12:09 PM	0115250009	7/22/2017	7:27:09 AM	19	0.11	28.8	53	738	
1429 DW N CENTER SX.txt	7/22/2017	12:27:09 PM	0115250009	7/22/2017	7:27:09 AM	20	-0.29	28.4	54	738	
1429 DW N CENTER SX.txt	7/22/2017	12:42:09 PM	0115250009	7/22/2017	7:27:09 AM	21	0.01	28	54	738	
1429 DW N CENTER SX.txt	7/22/2017	12:57:09 PM	0115250009	7/22/2017	7:27:09 AM	22	-0.57	27.8	56	738	
1429 DW N CENTER SX.txt	7/22/2017	1:12:09 PM	0115250009	7/22/2017	7:27:09 AM	23	0	27.4	57	738	
1429 DW N CENTER SX.txt	7/22/2017	1:27:09 PM	0115250009	7/22/2017	7:27:09 AM	24	-0.62	27	58	738	
1429 DW N CENTER SX.txt	7/22/2017	1:42:09 PM	0115250009	7/22/2017	7:27:09 AM	25	-0.31	26.9	60	738	
1429 DW N CENTER SX.txt	7/22/2017	1:57:09 PM	0115250009	7/22/2017	7:27:09 AM	26	0.13	27.2	59	738	
1429 DW N CENTER SX.txt	7/22/2017	2:12:09 PM	0115250009	7/22/2017	7:27:09 AM	27	0.9	27.3	58	738	
1429 DW N CENTER SX.txt	7/22/2017	2:27:09 PM	0115250009	7/22/2017	7:27:09 AM	28	0.6	27.4	58	738	
1429 DW N CENTER SX.txt	7/22/2017	2:42:09 PM	0115250009	7/22/2017	7:27:09 AM	29	0.09	27.7	57	736	
1429 DW N CENTER SX.txt	7/22/2017	2:57:09 PM	0115250009	7/22/2017	7:27:09 AM	30	0.21	28.3	54	736	
1429 DW N CENTER SX.txt	7/22/2017	3:12:09 PM	0115250009	7/22/2017	7:27:09 AM	31	0.25	28.4	53	736	
1429 DW N CENTER SX.txt	7/22/2017	3:27:09 PM	0115250009	7/22/2017	7:27:09 AM	32	0.84	28.2	56	736	
1429 DW N CENTER SX.txt	7/22/2017	3:42:09 PM	0115250009	7/22/2017	7:27:09 AM	33	0.5	27.7	56	736	
1429 DW N CENTER SX.txt	7/22/2017	3:57:09 PM	0115250009	7/22/2017	7:27:09 AM	34	0.78	27.2	57	736	
1429 DW N CENTER SX.txt	7/22/2017	4:12:09 PM	0115250009	7/22/2017	7:27:09 AM	35	1.13	27.2	58	736	
1429 DW N CENTER SX.txt	7/22/2017	4:27:09 PM	0115250009	7/22/2017	7:27:09 AM	36	1.84	27.3	58	736	
1429 DW N CENTER SX.txt	7/22/2017	4:42:09 PM	0115250009	7/22/2017	7:27:09 AM	37	2.26	27.1	59	736	
1429 DW N CENTER SX.txt	7/22/2017	4:57:09 PM	0115250009	7/22/2017	7:27:09 AM	38	3.05	27	61	736	
1429 DW N CENTER SX.txt	7/22/2017	5:12:09 PM	0115250009	7/22/2017	7:27:09 AM	39	5.5	27	53	736	
1429 DW N CENTER SX.txt	7/22/2017	5:27:09 PM	0115250009	7/22/2017	7:27:09 AM	40	1.23	25.5	39	736	
1860 DW NW FENCE SP.txt	7/22/2017	4:15:32 PM	0115250203	7/22/2017	4:00:32 PM	1	12.44	28.1	57	736	
1860 DW NW FENCE SP.txt	7/22/2017	4:30:32 PM	0115250203	7/22/2017	4:00:32 PM	2	12.2	27.7	58	736	
1860 DW NW FENCE SP.txt	7/22/2017	4:45:32 PM	0115250203	7/22/2017	4:00:32 PM	3	12.09	27.4	60	736	
1860 DW NW FENCE SP.txt	7/22/2017	5:00:32 PM	0115250203	7/22/2017	4:00:32 PM	4	12.27	27.4	61	736	
1860 DW NW FENCE SP.txt	7/22/2017	5:15:32 PM	0115250203	7/22/2017	4:00:32 PM	5	12.18	27.4	61	736	
1936 DW NW CORNER SP.txt	7/22/2017	4:14:29 PM	0115250202	7/22/2017	3:59:29 PM	1	13.97	28.1	58	736	
1936 DW NW CORNER SP.txt	7/22/2017	4:29:29 PM	0115250202	7/22/2017	3:59:29 PM	2	13.99	28.2	58	736	
1936 DW NW CORNER SP.txt	7/22/2017	4:44:29 PM	0115250202	7/22/2017	3:59:29 PM	3	15.62	27.7	60	736	
1936 DW NW CORNER SP.txt	7/22/2017	4:59:29 PM	0115250202	7/22/2017	3:59:29 PM	4	17.52	27.3	62	736	
1936 DW NW CORNER SP.txt	7/22/2017	5:14:29 PM	0115250202	7/22/2017	3:59:29 PM	5	14.55	27	63	736	
1954 UPWIND SP.txt	7/22/2017	3:13:28 PM	0115250211	7/22/2017	2:58:28 PM	1	-200.84	27.7	57	736	
2535 UPWIND SX.txt	7/22/2017	7:47:25 AM	CM15111015	7/22/2017	7:32:25 AM	1	0.9	19.4	68	738	
2535 UPWIND SX.txt	7/22/2017	8:02:25 AM	CM15111015	7/22/2017	7:32:25 AM	2	0.23	20.7	67	738	
2535 UPWIND SX.txt	7/22/2017	8:17:25 AM	CM15111015	7/22/2017	7:32:25 AM	3	-0.45	21.9	64	738	
2535 UPWIND SX.txt	7/22/2017	8:32:25 AM	CM15111015	7/22/2017	7:32:25 AM	4	-0.45	22.6	62	738	
2535 UPWIND SX.txt	7/22/2017	8:47:25 AM	CM15111015	7/22/2017	7:32:25 AM	5	-1.32	23.2	61	738	
2535 UPWIND SX.txt	7/22/2017	9:02:25 AM	CM15111015	7/22/2017	7:32:25 AM	6	-0.78	23.5	61	738	
2535 UPWIND SX.txt	7/22/2017	9:17:25 AM	CM15111015	7/22/2017	7:32:25 AM	7	-0.68	24.2	60	738	

Summary of CAMP Monitoring

Beech and Bonaparte

Former Sperry Remington Site - North Portion
Elmira, New York

Unit Location	Record Date	Record Time	Unit Serial Number	Start Date	Start Time	Record #	Dust Concentration in µg/m^3	Temp	RHumidity	AtmoPressure in mm/Hg	Notes
2535 UPWIND SX.txt	7/22/2017	9:32:25 AM	CM15111015	7/22/2017	7:32:25 AM	8	-1.35	24.9	58	738	
2535 UPWIND SX.txt	7/22/2017	9:47:25 AM	CM15111015	7/22/2017	7:32:25 AM	9	-1.74	25.5	56	738	
2535 UPWIND SX.txt	7/22/2017	10:02:25 AM	CM15111015	7/22/2017	7:32:25 AM	10	-1.5	26.1	55	738	
2535 UPWIND SX.txt	7/22/2017	10:17:25 AM	CM15111015	7/22/2017	7:32:25 AM	11	-1.18	26.9	54	738	
2535 UPWIND SX.txt	7/22/2017	10:32:25 AM	CM15111015	7/22/2017	7:32:25 AM	12	-1.94	28.5	50	738	
2535 UPWIND SX.txt	7/22/2017	10:47:25 AM	CM15111015	7/22/2017	7:32:25 AM	13	-2.49	30.5	45	740	
2535 UPWIND SX.txt	7/22/2017	11:02:25 AM	CM15111015	7/22/2017	7:32:25 AM	14	-2.18	31.3	42	740	
2535 UPWIND SX.txt	7/22/2017	11:17:25 AM	CM15111015	7/22/2017	7:32:25 AM	15	-2.02	31.6	42	740	
2535 UPWIND SX.txt	7/22/2017	11:32:25 AM	CM15111015	7/22/2017	7:32:25 AM	16	-2.17	31.6	42	738	
2535 UPWIND SX.txt	7/22/2017	11:47:25 AM	CM15111015	7/22/2017	7:32:25 AM	17	-0.82	31.1	44	738	
2535 UPWIND SX.txt	7/22/2017	12:02:25 PM	CM15111015	7/22/2017	7:32:25 AM	18	-1.4	31.1	44	738	
2535 UPWIND SX.txt	7/22/2017	12:17:25 PM	CM15111015	7/22/2017	7:32:25 AM	19	-1.52	30.9	45	738	
2535 UPWIND SX.txt	7/22/2017	12:32:25 PM	CM15111015	7/22/2017	7:32:25 AM	20	-1.29	30.1	47	738	
2535 UPWIND SX.txt	7/22/2017	12:47:25 PM	CM15111015	7/22/2017	7:32:25 AM	21	-1.77	29.7	47	738	
2535 UPWIND SX.txt	7/22/2017	1:02:25 PM	CM15111015	7/22/2017	7:32:25 AM	22	-1.47	29.5	48	738	
2535 UPWIND SX.txt	7/22/2017	1:17:25 PM	CM15111015	7/22/2017	7:32:25 AM	23	-1.2	29.2	50	738	
2535 UPWIND SX.txt	7/22/2017	1:32:25 PM	CM15111015	7/22/2017	7:32:25 AM	24	-1.58	28.9	50	738	
2535 UPWIND SX.txt	7/22/2017	1:47:25 PM	CM15111015	7/22/2017	7:32:25 AM	25	-0.97	29	52	738	
2535 UPWIND SX.txt	7/22/2017	2:02:25 PM	CM15111015	7/22/2017	7:32:25 AM	26	-0.15	29.1	50	738	
2535 UPWIND SX.txt	7/22/2017	2:17:25 PM	CM15111015	7/22/2017	7:32:25 AM	27	-0.71	29.2	50	738	
2535 UPWIND SX.txt	7/22/2017	2:32:25 PM	CM15111015	7/22/2017	7:32:25 AM	28	-0.55	29.4	50	738	
2535 UPWIND SX.txt	7/22/2017	2:47:25 PM	CM15111015	7/22/2017	7:32:25 AM	29	-0.91	29.9	49	738	
2535 UPWIND SX.txt	7/22/2017	3:02:25 PM	CM15111015	7/22/2017	7:32:25 AM	30	-1.55	30.1	46	738	
2535 UPWIND SX.txt	7/22/2017	3:17:25 PM	CM15111015	7/22/2017	7:32:25 AM	31	-1.19	30.2	47	738	
2535 UPWIND SX.txt	7/22/2017	3:32:25 PM	CM15111015	7/22/2017	7:32:25 AM	32	-0.89	30	48	738	
2535 UPWIND SX.txt	7/22/2017	3:47:25 PM	CM15111015	7/22/2017	7:32:25 AM	33	0.21	29.5	48	736	
2535 UPWIND SX.txt	7/22/2017	4:02:25 PM	CM15111015	7/22/2017	7:32:25 AM	34	0.54	29.1	49	736	
2535 UPWIND SX.txt	7/22/2017	4:17:25 PM	CM15111015	7/22/2017	7:32:25 AM	35	3.6	29.1	50	736	
2535 UPWIND SX.txt	7/22/2017	4:32:25 PM	CM15111015	7/22/2017	7:32:25 AM	36	3.46	29.1	50	736	
2535 UPWIND SX.txt	7/22/2017	4:47:25 PM	CM15111015	7/22/2017	7:32:25 AM	37	2.22	28.8	52	736	
2535 UPWIND SX.txt	7/22/2017	5:02:25 PM	CM15111015	7/22/2017	7:32:25 AM	38	2.42	28.8	53	736	
2980 DW NE CORNER.txt	7/22/2017	4:13:33 PM	CM15111014	7/22/2017	3:58:33 PM	1	-2.48	29.7	56	736	
2980 DW NE CORNER.txt	7/22/2017	4:28:33 PM	CM15111014	7/22/2017	3:58:33 PM	2	-1.19	29.9	55	736	
2980 DW NE CORNER.txt	7/22/2017	4:43:33 PM	CM15111014	7/22/2017	3:58:33 PM	3	5.35	29.5	57	736	
2980 DW NE CORNER.txt	7/22/2017	4:58:33 PM	CM15111014	7/22/2017	3:58:33 PM	4	0.63	29.1	59	736	
2980 DW NE CORNER.txt	7/22/2017	5:13:33 PM	CM15111014	7/22/2017	3:58:33 PM	5	-0.32	28.9	59	736	
0818 DW NW FENCE SX.txt	7/23/2017	7:53:58 AM	0115249311	7/23/2017	7:38:58 AM	1	-0.47	20.2	82	734	
0818 DW NW FENCE SX.txt	7/23/2017	8:08:58 AM	0115249311	7/23/2017	7:38:58 AM	2	-0.06	20.8	82	736	
0818 DW NW FENCE SX.txt	7/23/2017	8:23:58 AM	0115249311	7/23/2017	7:38:58 AM	3	0	21.3	80	734	
0818 DW NW FENCE SX.txt	7/23/2017	8:38:58 AM	0115249311	7/23/2017	7:38:58 AM	4	0.29	22.1	78	734	
0818 DW NW FENCE SX.txt	7/23/2017	8:53:58 AM	0115249311	7/23/2017	7:38:58 AM	5	0.54	22.5	77	734	
0818 DW NW FENCE SX.txt	7/23/2017	9:08:58 AM	0115249311	7/23/2017	7:38:58 AM	6	0.07	22.8	76	734	
0818 DW NW FENCE SX.txt	7/23/2017	9:23:58 AM	0115249311	7/23/2017	7:38:58 AM	7	0.45	23.7	73	736	
0818 DW NW FENCE SX.txt	7/23/2017	9:38:58 AM	0115249311	7/23/2017	7:38:58 AM	8	0.49	24.8	70	736	
0818 DW NW FENCE SX.txt	7/23/2017	9:53:58 AM	0115249311	7/23/2017	7:38:58 AM	9	0.99	25.5	67	736	
0818 DW NW FENCE SX.txt	7/23/2017	10:08:58 AM	0115249311	7/23/2017	7:38:58 AM	10	1.55	26.1	66	736	
0818 DW NW FENCE SX.txt	7/23/2017	10:23:58 AM	0115249311	7/23/2017	7:38:58 AM	11	1.72	26.5	64	736	
0818 DW NW FENCE SX.txt	7/23/2017	10:38:58 AM	0115249311	7/23/2017	7:38:58 AM	12	2.2	27.2	63	736	
0818 DW NW FENCE SX.txt	7/23/2017	10:53:58 AM	0115249311	7/23/2017	7:38:58 AM	13	3.22	28	60	736	
0818 DW NW FENCE SX.txt	7/23/2017	11:08:58 AM	0115249311	7/23/2017	7:38:58 AM	14	4.02	28.5	59	736	
0818 DW NW FENCE SX.txt	7/23/2017	11:23:58 AM	0115249311	7/23/2017	7:38:58 AM	15	4.85	29.3	55	736	
0818 DW NW FENCE SX.txt	7/23/2017	11:38:58 AM	0115249311	7/23/2017	7:38:58 AM	16	6.48	30.2	54	736	
0818 DW NW FENCE SX.txt	7/23/2017	11:53:58 AM	0115249311	7/23/2017	7:38:58 AM	17	6.94	30.9	52	736	
0818 DW NW FENCE SX.txt	7/23/2017	12:08:58 PM	0115249311	7/23/2017	7:38:58 AM	18	7.56	31.9	50	736	
0818 DW NW FENCE SX.txt	7/23/2017	12:23:58 PM	0115249311	7/23/2017	7:38:58 AM	19	7.65	32.3	49	736	
0818 DW NW FENCE SX.txt	7/23/2017	12:38:58 PM	0115249311	7/23/2017	7:38:58 AM	20	8.72	31.9	49	736	
0818 DW NW FENCE SX.txt	7/23/2017	12:53:58 PM	0115249311	7/23/2017	7:38:58 AM	21	11.75	31	51	736	
0818 DW NW FENCE SX.txt	7/23/2017	1:08:58 PM	0115249311	7/23/2017	7:38:58 AM	22	10.92	30.8	51	736	
0818 DW NW FENCE SX.txt	7/23/2017	1:23:58 PM	0115249311	7/23/2017	7:38:58 AM	23	12.5	31.5	49	736	
0818 DW NW FENCE SX.txt	7/23/2017	1:38:58 PM	0115249311	7/23/2017	7:38:58 AM	24	13.27	31.4	48	736	
0818 DW NW FENCE SX.txt	7/23/2017	1:53:58 PM	0115249311	7/23/2017	7:38:58 AM	25	12.54	30.8	49	736	
0818 DW NW FENCE SX.txt	7/23/2017	2:08:58 PM	0115249311	7/23/2017	7:38:58 AM	26	11.65	31.2	48	736	
1421 DW NW CORN SX.txt	7/23/2017	7:56:13 AM	0115249975	7/23/2017	7:41:13 AM	1	-2.49	20.1	81	734	
1421 DW NW CORN SX.txt	7/23/2017	8:11:13 AM	0115249975	7/23/2017	7:41:13 AM	2	-1.29	20.2	84	734	
1421 DW NW CORN SX.txt	7/23/2017	8:26:13 AM	0115249975	7/23/2017	7:41:13 AM	3	-2.3	20.4	83	734	
1421 DW NW CORN SX.txt	7/23/2017	8:41:13 AM	0115249975	7/23/2017	7:41:13 AM	4	-4.17	20.7	81	734	
1421 DW NW CORN SX.txt	7/23/2017	8:56:13 AM	0115249975	7/23/2017	7:41:13 AM	5	-4.82	20.8	81	734	
1421 DW NW CORN SX.txt	7/23/2017	9:11:13 AM	0115249975	7/23/2017	7:41:13 AM	6	-4.17	20.8	81	734	
1421 DW NW CORN SX.txt	7/23/2017	9:26:13 AM	0115249975	7/23/2017	7:41:13 AM	7	-6.11	21.5	80	734	
1421 DW NW CORN SX.txt	7/23/2017	9:41:13 AM	0115249975	7/23/2017	7:41:13 AM	8	-7.82	22.2	76	734	
1421 DW NW CORN SX.txt	7/23/2017	9:56:13 AM	0115249975	7/23/2017	7:41:13 AM	9	-9.04	22.9	74	734	
1421 DW NW CORN SX.txt	7/23/2017	10:11:13 AM	0115249975	7/23/2017	7:41:13 AM	10	-9.43	23.3	72	734	
1421 DW NW CORN SX.txt	7/23/2017	10:26:13 AM	0115249975	7/23/2017	7:41:13 AM	11	-8.93	23.4	72	734	
1421 DW NW CORN SX.txt	7/23/2017	10:41:13 AM	0115249975	7/23/2017	7:41:13 AM	12	-9.17	23.9	71	734	
1421 DW NW CORN SX.txt	7/23/2017	10:56:13 AM	0115249975	7/23/2017	7:41:13 AM	13	-8.8	24.7	69	734	
1421 DW NW CORN SX.txt	7/23/2017	11:11:13 AM	0115249975	7/23/2017	7:41:13 AM	14	-8.58	25.2	67	734	
1421 DW NW CORN SX.txt	7/23/2017	11:26:13 AM	0115249975	7/23/2017	7:41:13 AM	15	-8.39	25.8	64	734	
1421 DW NW CORN SX.txt	7/23/2017	11:41:13 AM	0115249975	7/23/2017	7:41:13 AM	16	-7.57	26.5	61	734	
1421 DW NW CORN SX.txt	7/23/2017	11:56:13 AM	0115249975	7/23/2017	7:41:13 AM	17	-4.28	27.2	59	734	
1421 DW NW CORN SX.txt	7/23/2017	12:11:13 PM	0115249975	7/23/2017	7:41:13 AM	18	-8.94	28.1	56	734	
1421 DW NW CORN SX.txt	7/23/2017	12:26:13 PM	0115249975	7/23/2017	7:41:13 AM	19	-8.78	28.6	55	734	
1421 DW NW CORN SX.txt	7/23/2017	12:41:13 PM	0115249975	7/23/2017	7:41:13 AM	20	-7.58	28.2	56	734	
1421 DW NW CORN SX.txt	7/23/2017	12:56:13 PM	0115249975	7/23/2017	7:41:13 AM	21	-6.77	27.5	56	734	
1421 DW NW CORN SX.txt	7/23/2017	1:11:13 PM	0115249975	7/23/2017	7:41:13 AM	22	-6.73	27.6	56	734	
1421 DW NW CORN SX.txt	7/23/2017	1:26:13 PM	0115249975	7/23/2017	7:41:13 AM	23	-0.73	28.2	54	734	
1421 DW NW CORN SX.txt	7/23/2017	1:41:13 PM	0115249975	7/23/2017	7:41:13 AM	24	-6.68	27.9	53	734	
1421 DW NW CORN SX.txt	7/23/2017	1:56:13 PM	0115249975	7/23/2017	7:41:13 AM	25	-6.75	27.5	54	734	
1421 DW NW CORN SX.txt	7/23/2017	2:11:13 PM	0115249975	7/23/2017	7:41:13 AM	26	-7.56	27.7	53	734	
1422 DW NE FENCE SP.txt	7/23/2017	7:41:14 AM	0115249980	7/23/2017	7:26:14 AM	1	-0.67	18.1	86	736	
1422 DW NE FENCE SP.txt	7/23/2017	7:56:14 AM	0115249980	7/23/2017	7:26:14 AM	2	0.02	18.2	89	736	
1422 DW NE FENCE SP.txt	7/23/2017	8:11:14 AM	0115249980	7/23/2017	7:26:14 AM	3	-0.11	18.3	89	736	
1422 DW NE FENCE SP.txt	7/23/2017	8:26:14 AM	0115249980	7/23/2017	7:26:14 AM	4	-0.66	18.5	89	736	
1422 DW NE FENCE SP.txt	7/23/2017	8:41:14 AM	0115249980	7/23/2017	7:26:14 AM	5	-1.36	18.9	88	736	
1422 DW NE FENCE SP.txt	7/23/2017	8:56:14 AM	0115249980	7/23/2017	7:26:14 AM	6	-2.09	19	87	736	
1422 DW NE FENCE SP.txt	7/23/2017	9:11:14 AM	0115249980	7/23/2017	7:26:14 AM	7	-2.59	19.4	86	736	
1422 DW NE FENCE SP.txt	7/23/2017	9:26:14 AM	0115249980	7/23/2017	7:26:14 AM	8	-3.05	19.9	85	736	
1422 DW NE FENCE SP.txt	7/23/2017	9:41:14 AM	0115249980	7/23/2017	7:26:14 AM	9	-4.3	20.7	82	736	
1422 DW NE FENCE SP.txt	7/23/2017	9:56:14 AM	0115249980	7/23/2017	7:26:14 AM	10	-4.98	21.3	79	736	
1422 DW NE FENCE SP.txt	7/23/2017	10:11:14 AM	0115249980	7/23/2017	7:26:14 AM	11	-5	21.7	78	736	
1422 DW NE FENCE SP.txt	7/23/2017	10:26:14 AM	0115249980	7/23/2017	7:26:14 AM	12	-5.44	21.9	77	736	
1422 DW NE FENCE SP.txt	7/23/2017	10:41:14 AM	0115249980	7/23/2017	7:26:14 AM	13	-5.69	22.5	75	736	
1422 DW NE FENCE SP.txt	7/23/2017	10:56:14 AM	0115249980	7/23/2017	7:26:14 AM	14	-6.09	23.3	73	736	
1422 DW NE FENCE SP.txt	7/23/2017	11:11:14 AM	0115249980	7/23/2017	7:26:14 AM	15	-5.37	23.9	70	736	
1422 DW NE FENCE SP.txt	7/23/2017	11:26:14 AM	0115249980	7/23/2017	7:26:14 AM	16	-6.11	24.9	69	736	
1422 DW NE FENCE SP.txt	7/23/2017	11:41:14 AM	0115249980	7/23/2017	7:26:14 AM	17	10.45	26	65	736	
1422 DW NE FENCE SP.txt	7/23/2017	11:56:14 AM	0115249980	7/23/2017	7:26:14 AM	18	-4.88	26.7	62	736	
1422 DW NE FENCE SP.txt	7/23/2017	12:11:14 PM	0115249980	7/23/2017	7:26:14 AM	19	-5.07	27.5	60	736	
1422 DW NE FENCE SP.txt	7/23/2017	12:26:14 PM	0115249980	7/23/2017	7:26:14 AM	20	-6.9	27.9	58	736	
1422 DW NE FENCE SP.txt	7/23/2017	12:41:14 PM	0115249980	7/23/2017	7:26:14 AM	21	-6.42	27.7	58	736	
1422 DW NE FENCE SP.txt	7/23/2017	12:56:14 PM	0115249980	7/23/2017	7:26:14 AM	22	37.09	27.2	59	736	
1422 DW NE FENCE SP.txt	7/23/2017	1:11:14 PM	0115249980	7/23/2017	7:26:14 AM	23	-5.43	27.5	57	736	
1422 DW NE FENCE SP.txt	7/23/2017	1:26:14 PM	0115249980	7/23/2017	7:26:14 AM	24	-0.43	28	56	736	
1422 DW NE FENCE SP.txt	7/23/2017	1:41:14 PM	0115249980	7/23/2017	7:26:14 AM	25	7	27.8	55	736	
1422 DW NE FENCE SP.txt	7/23/2017	1:56:14 PM	0115249980	7/23/2017	7:26:14 AM	26	8.85	27.2	57	736	
1422 DW NE FENCE SP.txt	7/23/2017	2:11:14 PM	0115249980	7/23/2017	7:26:14 AM	27	7.73	27.6	55	736	
1422 DW NE FENCE SP.txt	7/23/2017	2:26:14 PM	0115249980	7/23/2017	7:26:14 AM	28	9.12	27.2	56	736	
1428 DW NE CORN SX.txt	7/23/2017	7:57:34 AM	0115250007	7/23/2017	7:42:34 AM	1	-0.1	18.6	87	736	
1428 DW NE CORN SX.txt	7/23/2017	8:12:34 AM	0115250007	7/23/2017	7:42:34 AM	2	0.04	18.8	89	736	
1428 DW NE CORN SX.txt	7/23/2017	8:27:34 AM	0115250007	7/23/2017	7:42:34 AM	3	-0.48	19	89	736	
1428 DW NE CORN SX.txt	7/23/2017	8:42:34 AM	0115250007	7/23/2017	7:42:34 AM	4	-1.1	19.4	88	736	
1428 DW NE CORN SX.txt	7/23/2017	8:57:34 AM	0115250007	7/23/2017	7:42:34 AM	5	-1.73	19.7	87	736	
1428 DW NE CORN SX.txt	7/23/2017	9:12:34 AM	0115250007	7/23/2017	7:42:34 AM	6	-1.5	19.9	88	736	
1428 DW NE CORN SX.txt	7/23/2017	9:27:34 AM	0115250007	7/23/2017	7:42:34 AM	7	-2.56	20.6	86	736	
1428 DW NE CORN SX.txt	7/23/2017	9:42:34 AM	0115250007	7/23/2017	7:42:34 AM	8	-3.38	21.4	83	736	
1428 DW NE CORN SX.txt	7/23/2017	9:57:34 AM	0115250007	7/23/2017	7:42:34 AM	9	-4.18	22	80	736	

Summary of CAMP Monitoring

Beech and Bonaparte

Former Sperry Remington Site - North Portion
Elmira, New York

Unit Location	Record Date	Record Time	Unit Serial Number	Start Date	Start Time	Record #	Dust Concentration in µg/m^3	Temp	RHumidity	AtmoPressure in mm/Hg	Notes
1428 DW NE CORN SX.txt	7/23/2017	10:12:34 AM	0115250007	7/23/2017	7:42:34 AM	10	-4.12	22.4	79	736	
1428 DW NE CORN SX.txt	7/23/2017	10:27:34 AM	0115250007	7/23/2017	7:42:34 AM	11	-4.49	22.7	78	736	
1428 DW NE CORN SX.txt	7/23/2017	10:42:34 AM	0115250007	7/23/2017	7:42:34 AM	12	-4.46	23.2	77	736	
1428 DW NE CORN SX.txt	7/23/2017	10:57:34 AM	0115250007	7/23/2017	7:42:34 AM	13	-4.39	23.7	75	736	
1428 DW NE CORN SX.txt	7/23/2017	11:12:34 AM	0115250007	7/23/2017	7:42:34 AM	14	-4.41	24	74	736	
1428 DW NE CORN SX.txt	7/23/2017	11:27:34 AM	0115250007	7/23/2017	7:42:34 AM	15	-4.31	24.8	72	736	
1428 DW NE CORN SX.txt	7/23/2017	11:42:34 AM	0115250007	7/23/2017	7:42:34 AM	16	-4.02	25.6	69	736	
1428 DW NE CORN SX.txt	7/23/2017	11:57:34 AM	0115250007	7/23/2017	7:42:34 AM	17	-4.01	26.3	66	736	
1428 DW NE CORN SX.txt	7/23/2017	12:12:34 PM	0115250007	7/23/2017	7:42:34 AM	18	-4.43	27.3	63	736	
1428 DW NE CORN SX.txt	7/23/2017	12:27:34 PM	0115250007	7/23/2017	7:42:34 AM	19	-4.36	27.3	63	736	
1428 DW NE CORN SX.txt	7/23/2017	12:42:34 PM	0115250007	7/23/2017	7:42:34 AM	20	-3.07	26.9	64	736	
1428 DW NE CORN SX.txt	7/23/2017	12:57:34 PM	0115250007	7/23/2017	7:42:34 AM	21	-1.56	26.5	64	736	
1428 DW NE CORN SX.txt	7/23/2017	1:12:34 PM	0115250007	7/23/2017	7:42:34 AM	22	-1.89	27.3	61	736	
1428 DW NE CORN SX.txt	7/23/2017	1:27:34 PM	0115250007	7/23/2017	7:42:34 AM	23	-0.59	28.2	59	736	
1428 DW NE CORN SX.txt	7/23/2017	1:42:34 PM	0115250007	7/23/2017	7:42:34 AM	24	-1.59	28	58	736	
1428 DW NE CORN SX.txt	7/23/2017	1:57:34 PM	0115250007	7/23/2017	7:42:34 AM	25	-0.72	27.6	59	736	
1428 DW NE CORN SX.txt	7/23/2017	2:12:34 PM	0115250007	7/23/2017	7:42:34 AM	26	-2.96	28.1	57	736	
1429 DW N CENTER SX.txt	7/23/2017	7:57:55 AM	0115250009	7/23/2017	7:42:55 AM	1	-2.2	18.8	87	736	
1429 DW N CENTER SX.txt	7/23/2017	8:12:55 AM	0115250009	7/23/2017	7:42:55 AM	2	-2.34	19	89	736	
1429 DW N CENTER SX.txt	7/23/2017	8:27:55 AM	0115250009	7/23/2017	7:42:55 AM	3	-2.89	19.3	88	736	
1429 DW N CENTER SX.txt	7/23/2017	8:42:55 AM	0115250009	7/23/2017	7:42:55 AM	4	-3.9	19.6	86	736	
1429 DW N CENTER SX.txt	7/23/2017	8:57:55 AM	0115250009	7/23/2017	7:42:55 AM	5	-4.15	19.8	85	736	
1429 DW N CENTER SX.txt	7/23/2017	9:12:55 AM	0115250009	7/23/2017	7:42:55 AM	6	-4.08	19.9	85	736	
1429 DW N CENTER SX.txt	7/23/2017	9:27:55 AM	0115250009	7/23/2017	7:42:55 AM	7	-5.91	20.7	82	736	
1429 DW N CENTER SX.txt	7/23/2017	9:42:55 AM	0115250009	7/23/2017	7:42:55 AM	8	-6.91	21.6	80	736	
1429 DW N CENTER SX.txt	7/23/2017	9:57:55 AM	0115250009	7/23/2017	7:42:55 AM	9	-7.66	22.2	77	736	
1429 DW N CENTER SX.txt	7/23/2017	10:12:55 AM	0115250009	7/23/2017	7:42:55 AM	10	-7.74	22.5	77	736	
1429 DW N CENTER SX.txt	7/23/2017	10:27:55 AM	0115250009	7/23/2017	7:42:55 AM	11	-7.66	22.8	76	736	
1429 DW N CENTER SX.txt	7/23/2017	10:42:55 AM	0115250009	7/23/2017	7:42:55 AM	12	-7.52	23.3	75	736	
1429 DW N CENTER SX.txt	7/23/2017	10:57:55 AM	0115250009	7/23/2017	7:42:55 AM	13	-7.76	23.9	73	736	
1429 DW N CENTER SX.txt	7/23/2017	11:12:55 AM	0115250009	7/23/2017	7:42:55 AM	14	-7.5	24.1	72	736	
1429 DW N CENTER SX.txt	7/23/2017	11:27:55 AM	0115250009	7/23/2017	7:42:55 AM	15	-7.3	24.5	71	736	
1429 DW N CENTER SX.txt	7/23/2017	11:42:55 AM	0115250009	7/23/2017	7:42:55 AM	16	-6.85	25.2	68	736	
1429 DW N CENTER SX.txt	7/23/2017	11:57:55 AM	0115250009	7/23/2017	7:42:55 AM	17	-7.28	25.9	66	736	
1429 DW N CENTER SX.txt	7/23/2017	12:12:55 PM	0115250009	7/23/2017	7:42:55 AM	18	-8.06	27.2	62	736	
1429 DW N CENTER SX.txt	7/23/2017	12:27:55 PM	0115250009	7/23/2017	7:42:55 AM	19	-7.93	27.4	62	736	
1429 DW N CENTER SX.txt	7/23/2017	12:42:55 PM	0115250009	7/23/2017	7:42:55 AM	20	-3.76	26.9	63	736	
1429 DW N CENTER SX.txt	7/23/2017	12:57:55 PM	0115250009	7/23/2017	7:42:55 AM	21	-4.96	26.3	62	736	
1429 DW N CENTER SX.txt	7/23/2017	1:12:55 PM	0115250009	7/23/2017	7:42:55 AM	22	-4.88	26.6	62	736	
1429 DW N CENTER SX.txt	7/23/2017	1:27:55 PM	0115250009	7/23/2017	7:42:55 AM	23	-4.59	27.1	61	736	
1429 DW N CENTER SX.txt	7/23/2017	1:42:55 PM	0115250009	7/23/2017	7:42:55 AM	24	-3.54	27	59	736	
1429 DW N CENTER SX.txt	7/23/2017	1:57:55 PM	0115250009	7/23/2017	7:42:55 AM	25	-2.86	26.7	60	736	
1429 DW N CENTER SX.txt	7/23/2017	2:12:55 PM	0115250009	7/23/2017	7:42:55 AM	26	-4.13	27	59	736	
1860 DW NW FENCE SP.txt	7/23/2017	7:44:42 AM	0115250203	7/23/2017	7:29:42 AM	1	-3.02	18.7	88	736	
1860 DW NW FENCE SP.txt	7/23/2017	7:59:42 AM	0115250203	7/23/2017	7:29:42 AM	2	-2.5	18.8	90	736	
1860 DW NW FENCE SP.txt	7/23/2017	8:14:42 AM	0115250203	7/23/2017	7:29:42 AM	3	-2.72	18.9	91	736	
1860 DW NW FENCE SP.txt	7/23/2017	8:29:42 AM	0115250203	7/23/2017	7:29:42 AM	4	-3	19.1	90	736	
1860 DW NW FENCE SP.txt	7/23/2017	8:44:42 AM	0115250203	7/23/2017	7:29:42 AM	5	-3.39	19.4	91	736	
1860 DW NW FENCE SP.txt	7/23/2017	8:59:42 AM	0115250203	7/23/2017	7:29:42 AM	6	-4.31	19.6	89	736	
1860 DW NW FENCE SP.txt	7/23/2017	9:14:42 AM	0115250203	7/23/2017	7:29:42 AM	7	-4.61	19.8	89	736	
1860 DW NW FENCE SP.txt	7/23/2017	9:29:42 AM	0115250203	7/23/2017	7:29:42 AM	8	-6.15	20.8	86	736	
1860 DW NW FENCE SP.txt	7/23/2017	9:44:42 AM	0115250203	7/23/2017	7:29:42 AM	9	-7.57	21.4	82	736	
1860 DW NW FENCE SP.txt	7/23/2017	9:59:42 AM	0115250203	7/23/2017	7:29:42 AM	10	-7.85	21.8	81	736	
1860 DW NW FENCE SP.txt	7/23/2017	10:14:42 AM	0115250203	7/23/2017	7:29:42 AM	11	-8.51	22.3	79	736	
1860 DW NW FENCE SP.txt	7/23/2017	10:29:42 AM	0115250203	7/23/2017	7:29:42 AM	12	-9.31	22.8	77	736	
1860 DW NW FENCE SP.txt	7/23/2017	10:44:42 AM	0115250203	7/23/2017	7:29:42 AM	13	-9.74	23.5	75	736	
1860 DW NW FENCE SP.txt	7/23/2017	10:59:42 AM	0115250203	7/23/2017	7:29:42 AM	14	-10.42	24.6	71	736	
1860 DW NW FENCE SP.txt	7/23/2017	11:14:42 AM	0115250203	7/23/2017	7:29:42 AM	15	-10.51	25	70	736	
1860 DW NW FENCE SP.txt	7/23/2017	11:29:42 AM	0115250203	7/23/2017	7:29:42 AM	16	-10.6	25.6	69	736	
1860 DW NW FENCE SP.txt	7/23/2017	11:44:42 AM	0115250203	7/23/2017	7:29:42 AM	17	-10.61	26.4	66	736	
1860 DW NW FENCE SP.txt	7/23/2017	11:59:42 AM	0115250203	7/23/2017	7:29:42 AM	18	-10.99	27.4	62	736	
1860 DW NW FENCE SP.txt	7/23/2017	12:14:42 PM	0115250203	7/23/2017	7:29:42 AM	19	-11.4	28.5	59	736	
1860 DW NW FENCE SP.txt	7/23/2017	12:29:42 PM	0115250203	7/23/2017	7:29:42 AM	20	-11.12	28.3	59	736	
1860 DW NW FENCE SP.txt	7/23/2017	12:44:42 PM	0115250203	7/23/2017	7:29:42 AM	21	-10.46	27.9	60	736	
1860 DW NW FENCE SP.txt	7/23/2017	12:59:42 PM	0115250203	7/23/2017	7:29:42 AM	22	-9.82	27.4	60	736	
1860 DW NW FENCE SP.txt	7/23/2017	1:14:42 PM	0115250203	7/23/2017	7:29:42 AM	23	-9.96	28.2	58	736	
1860 DW NW FENCE SP.txt	7/23/2017	1:29:42 PM	0115250203	7/23/2017	7:29:42 AM	24	-10.17	28.4	57	736	
1860 DW NW FENCE SP.txt	7/23/2017	1:44:42 PM	0115250203	7/23/2017	7:29:42 AM	25	-10.78	28	57	736	
1860 DW NW FENCE SP.txt	7/23/2017	1:59:42 PM	0115250203	7/23/2017	7:29:42 AM	26	-11.23	27.6	58	736	
1860 DW NW FENCE SP.txt	7/23/2017	2:14:42 PM	0115250203	7/23/2017	7:29:42 AM	27	-11.06	28.2	56	734	
1860 DW NW FENCE SP.txt	7/23/2017	2:29:42 PM	0115250203	7/23/2017	7:29:42 AM	28	-10.37	27.7	59	734	
1936 DW NW CORNER SP.txt	7/23/2017	7:45:38 AM	0115250202	7/23/2017	7:30:38 AM	1	-7.24	18.8	88	736	
1936 DW NW CORNER SP.txt	7/23/2017	8:00:38 AM	0115250202	7/23/2017	7:30:38 AM	2	-5.01	18.9	92	736	
1936 DW NW CORNER SP.txt	7/23/2017	8:15:38 AM	0115250202	7/23/2017	7:30:38 AM	3	-6.99	19.1	91	736	
1936 DW NW CORNER SP.txt	7/23/2017	8:30:38 AM	0115250202	7/23/2017	7:30:38 AM	4	-7.69	19.5	90	736	
1936 DW NW CORNER SP.txt	7/23/2017	8:45:38 AM	0115250202	7/23/2017	7:30:38 AM	5	-9.45	19.9	87	736	
1936 DW NW CORNER SP.txt	7/23/2017	9:00:38 AM	0115250202	7/23/2017	7:30:38 AM	6	-9.3	19.9	87	736	
1936 DW NW CORNER SP.txt	7/23/2017	9:15:38 AM	0115250202	7/23/2017	7:30:38 AM	7	-10.86	20.2	86	736	
1936 DW NW CORNER SP.txt	7/23/2017	9:30:38 AM	0115250202	7/23/2017	7:30:38 AM	8	-11.32	21	84	736	
1936 DW NW CORNER SP.txt	7/23/2017	9:45:38 AM	0115250202	7/23/2017	7:30:38 AM	9	-11.54	21.7	81	736	
1936 DW NW CORNER SP.txt	7/23/2017	10:00:38 AM	0115250202	7/23/2017	7:30:38 AM	10	-11.1	22.4	79	736	
1936 DW NW CORNER SP.txt	7/23/2017	10:15:38 AM	0115250202	7/23/2017	7:30:38 AM	11	-11.02	22.8	76	736	
1936 DW NW CORNER SP.txt	7/23/2017	10:30:38 AM	0115250202	7/23/2017	7:30:38 AM	12	-11.07	23	75	736	
1936 DW NW CORNER SP.txt	7/23/2017	10:45:38 AM	0115250202	7/23/2017	7:30:38 AM	13	-10.5	23.3	75	736	
1936 DW NW CORNER SP.txt	7/23/2017	11:00:38 AM	0115250202	7/23/2017	7:30:38 AM	14	-9.96	24.3	72	736	
1936 DW NW CORNER SP.txt	7/23/2017	11:15:38 AM	0115250202	7/23/2017	7:30:38 AM	15	-8.61	25.1	70	736	
1936 DW NW CORNER SP.txt	7/23/2017	11:30:38 AM	0115250202	7/23/2017	7:30:38 AM	16	-8.64	26.4	66	736	
1936 DW NW CORNER SP.txt	7/23/2017	11:45:38 AM	0115250202	7/23/2017	7:30:38 AM	17	-7.7	27.5	63	736	
1936 DW NW CORNER SP.txt	7/23/2017	12:00:38 PM	0115250202	7/23/2017	7:30:38 AM	18	-6.28	28.5	59	736	
1936 DW NW CORNER SP.txt	7/23/2017	12:15:38 PM	0115250202	7/23/2017	7:30:38 AM	19	-7.36	29.3	57	736	
1936 DW NW CORNER SP.txt	7/23/2017	12:30:38 PM	0115250202	7/23/2017	7:30:38 AM	20	-6.64	29.2	57	736	
1936 DW NW CORNER SP.txt	7/23/2017	12:45:38 PM	0115250202	7/23/2017	7:30:38 AM	21	-5.85	28.4	59	736	
1936 DW NW CORNER SP.txt	7/23/2017	1:00:38 PM	0115250202	7/23/2017	7:30:38 AM	22	-5.06	27.6	59	736	
1936 DW NW CORNER SP.txt	7/23/2017	1:15:38 PM	0115250202	7/23/2017	7:30:38 AM	23	-3.78	28.2	58	736	
1936 DW NW CORNER SP.txt	7/23/2017	1:30:38 PM	0115250202	7/23/2017	7:30:38 AM	24	-5.06	28.5	57	736	
1936 DW NW CORNER SP.txt	7/23/2017	1:45:38 PM	0115250202	7/23/2017	7:30:38 AM	25	-5.7	27.9	57	736	
1936 DW NW CORNER SP.txt	7/23/2017	2:00:38 PM	0115250202	7/23/2017	7:30:38 AM	26	-6.3	27.6	58	736	
1936 DW NW CORNER SP.txt	7/23/2017	2:15:38 PM	0115250202	7/23/2017	7:30:38 AM	27	-4.97	28	57	736	
1936 DW NW CORNER SP.txt	7/23/2017	2:30:38 PM	0115250202	7/23/2017	7:30:38 AM	28	-5.26	27.2	60	736	
1954 UPWIND SP.txt	7/23/2017	7:42:43 AM	0115250211	7/23/2017	7:27:43 AM	1	-101.62	19	87	734	
1954 UPWIND SP.txt	7/23/2017	7:57:43 AM	0115250211	7/23/2017	7:27:43 AM	2	-94.93	19.1	89	734	
1954 UPWIND SP.txt	7/23/2017	8:12:43 AM	0115250211	7/23/2017	7:27:43 AM	3	-98.81	19.3	88	734	
1954 UPWIND SP.txt	7/23/2017	8:27:43 AM	0115250211	7/23/2017	7:27:43 AM	4	-82.75	19.5	91	734	
1954 UPWIND SP.txt	7/23/2017	8:42:43 AM	0115250211	7/23/2017	7:27:43 AM	5	-96.4	20.1	88	734	
1954 UPWIND SP.txt	7/23/2017	8:57:43 AM	0115250211	7/23/2017	7:27:43 AM	6	-103.64	20.4	87	734	
1954 UPWIND SP.txt	7/23/2017	9:12:43 AM	0115250211	7/23/2017	7:27:43 AM	7	-106.07	20.8	86	734	
1954 UPWIND SP.txt	7/23/2017	9:27:43 AM	0115250211	7/23/2017	7:27:43 AM	8	-126.09	21.7	82	734	
1954 UPWIND SP.txt	7/23/2017	9:42:43 AM	0115250211	7/23/2017	7:27:43 AM	9	-144.83	22.6	79	734	
1954 UPWIND SP.txt	7/23/2017	9:57:43 AM	0115250211	7/23/2017	7:27:43 AM	10	-161.44	23.3	75	734	
1954 UPWIND SP.txt	7/23/2017	10:12:43 AM	0115250211	7/23/2017	7:27:43 AM	11	-170.88	24	73	734	
1954 UPWIND SP.txt	7/23/2017	10:27:43 AM	0115250211	7/23/2017	7:27:43 AM	12	-178.31	24.6	72	734	
1954 UPWIND SP.txt	7/23/2017	10:42:43 AM	0115250211	7/23/2017	7:27:43 AM	13	-190.27	25.5	69	734	
1954 UPWIND SP.txt	7/23/2017	10:57:43 AM	0115250211	7/23/2017	7:27:43 AM	14	-200.63	26.5	66	734	
1954 UPWIND SP.txt	7/23/2017	11:12:43 AM	0115250211	7/23/2017	7:27:43 AM	15	-211.58	27.2	63	734	
1954 UPWIND SP.txt	7/23/2017	11:27:43 AM	0115250211	7/23/2017	7:27:43 AM	16	-218.04	28.3	61	734	
1954 UPWIND SP.txt	7/23/2017	11:42:43 AM	0115250211	7/23/2017	7:27:43 AM	17	-228.15	29.3	58	734	
1954 UPWIND SP.txt	7/23/2017	11:57:43 AM	0115250211	7/23/2017	7:27:43 AM	18	-234.17	30.2	55	734	
1954 UPWIND SP.txt	7/23/2017	12:12:43 PM	0115250211	7/23/2017	7:27:43 AM	19	-240.17	31.2	52	734	
1954 UPWIND SP.txt	7/23/2017	12:27:43 PM	0115250211	7/23/2017	7:27:43 AM	20	-241.43	31.5	52	734	
1954 UPWIND SP.txt	7/23/2017	12:42:43 PM	0115250211	7/23/2017	7:27:43 AM	21	-240.44	31.1	52	734	
1954 UPWIND SP.txt	7/23/2017	12:57:43 PM	0115250211	7/23/2017	7:27:43 AM	22	-238.58	30.3	53	734	
1954 UPWIND SP.txt	7/23/2017	1:12:43 PM	0115250211	7/23/2017	7:27:43 AM	23	-239.88	30.8	53	734	
1954 UPWIND SP.txt	7/23/2017	1:27:43 PM	0115250211	7/23/2017	7:27:43 AM	24	-243.01	31.3	51	734	
1954 UPWIND SP.txt	7/23/2017	1:42:43 PM	0115250211	7/23/2017	7:27:43 AM	25	-243.47	31	50	734	
1954 UPWIND SP.txt	7/23/2017	1:57:43 PM	0115250211	7/23/2017	7:27:43 AM	26	-240.9	30.5	52	734	
1954 UPWIND SP.txt	7/23/2017	2:12:43 PM	0115250211	7/23/2017	7:27:43 AM	27	-242.36	31	51	734	
1954 UPWIND SP.txt	7/23/2017	2:27:43 PM	0115250211	7/23/2017	7:27:43 AM	28	-242.23	30.6	51	734	
2535 UPWIND SX.txt	7/23/2017	8:00:03 AM	CM15111015	7/23/2017	7:45:03 AM	1	-0.14	18.9	85	736	

Summary of CAMP Monitoring

Beech and Bonaparte

Former Sperry Remington Site - North Portion
Elmira, New York

Unit Location	Record Date	Record Time	Unit Serial Number	Start Date	Start Time	Record #	Dust Concentration in µg/m^3	Temp	RHumidity	AtmoPressure in mm/Hg	Notes
2535 UPWIND SX.txt	7/23/2017	8:15:03 AM	CM15111015	7/23/2017	7:45:03 AM	2	-1.43	19.2	85	736	
2535 UPWIND SX.txt	7/23/2017	8:30:03 AM	CM15111015	7/23/2017	7:45:03 AM	3	-2.06	19.6	84	736	
2535 UPWIND SX.txt	7/23/2017	8:45:03 AM	CM15111015	7/23/2017	7:45:03 AM	4	-3.85	20.1	82	736	
2535 UPWIND SX.txt	7/23/2017	9:00:03 AM	CM15111015	7/23/2017	7:45:03 AM	5	-4.55	20.3	81	736	
2535 UPWIND SX.txt	7/23/2017	9:15:03 AM	CM15111015	7/23/2017	7:45:03 AM	6	-5.22	20.6	81	736	
2535 UPWIND SX.txt	7/23/2017	9:30:03 AM	CM15111015	7/23/2017	7:45:03 AM	7	-7.37	21.5	77	736	
2535 UPWIND SX.txt	7/23/2017	9:45:03 AM	CM15111015	7/23/2017	7:45:03 AM	8	-9.01	22.3	74	736	
2535 UPWIND SX.txt	7/23/2017	10:00:03 AM	CM15111015	7/23/2017	7:45:03 AM	9	-10.11	22.8	71	736	
2535 UPWIND SX.txt	7/23/2017	10:15:03 AM	CM15111015	7/23/2017	7:45:03 AM	10	-10.21	23.2	70	736	
2535 UPWIND SX.txt	7/23/2017	10:30:03 AM	CM15111015	7/23/2017	7:45:03 AM	11	-10.66	23.9	69	736	
2535 UPWIND SX.txt	7/23/2017	10:45:03 AM	CM15111015	7/23/2017	7:45:03 AM	12	-11.33	24.8	65	736	
2535 UPWIND SX.txt	7/23/2017	11:00:03 AM	CM15111015	7/23/2017	7:45:03 AM	13	-11.37	25.8	63	736	
2535 UPWIND SX.txt	7/23/2017	11:15:03 AM	CM15111015	7/23/2017	7:45:03 AM	14	-10.79	26.4	61	736	
2535 UPWIND SX.txt	7/23/2017	11:30:03 AM	CM15111015	7/23/2017	7:45:03 AM	15	-10.59	27	59	736	
2535 UPWIND SX.txt	7/23/2017	11:45:03 AM	CM15111015	7/23/2017	7:45:03 AM	16	-9.5	27.6	57	736	
2535 UPWIND SX.txt	7/23/2017	12:00:03 PM	CM15111015	7/23/2017	7:45:03 AM	17	-10.02	28.3	54	736	
2535 UPWIND SX.txt	7/23/2017	12:15:03 PM	CM15111015	7/23/2017	7:45:03 AM	18	-10.51	29.6	52	736	
2535 UPWIND SX.txt	7/23/2017	12:30:03 PM	CM15111015	7/23/2017	7:45:03 AM	19	-10.48	29.7	51	736	
2535 UPWIND SX.txt	7/23/2017	12:45:03 PM	CM15111015	7/23/2017	7:45:03 AM	20	-8.85	29.2	52	736	
2535 UPWIND SX.txt	7/23/2017	1:00:03 PM	CM15111015	7/23/2017	7:45:03 AM	21	-6.67	28.2	53	736	
2535 UPWIND SX.txt	7/23/2017	1:15:03 PM	CM15111015	7/23/2017	7:45:03 AM	22	-6.87	28.7	52	736	
2535 UPWIND SX.txt	7/23/2017	1:30:03 PM	CM15111015	7/23/2017	7:45:03 AM	23	-7	29.2	51	736	
2535 UPWIND SX.txt	7/23/2017	1:45:03 PM	CM15111015	7/23/2017	7:45:03 AM	24	-7.3	28.7	50	736	
2535 UPWIND SX.txt	7/23/2017	2:00:03 PM	CM15111015	7/23/2017	7:45:03 AM	25	-6.69	28.3	51	736	
2535 UPWIND SX.txt	7/23/2017	2:15:03 PM	CM15111015	7/23/2017	7:45:03 AM	26	-8.3	28.8	50	736	
2980 DW NE CORNER SP.txt	7/23/2017	7:47:49 AM	CM15111014	7/23/2017	7:32:49 AM	1	-4.43	20.3	85	736	
2980 DW NE CORNER SP.txt	7/23/2017	8:02:49 AM	CM15111014	7/23/2017	7:32:49 AM	2	-2.87	20.5	88	736	
2980 DW NE CORNER SP.txt	7/23/2017	8:17:49 AM	CM15111014	7/23/2017	7:32:49 AM	3	-4.05	20.6	87	736	
2980 DW NE CORNER SP.txt	7/23/2017	8:32:49 AM	CM15111014	7/23/2017	7:32:49 AM	4	-3.77	21	87	736	
2980 DW NE CORNER SP.txt	7/23/2017	8:47:49 AM	CM15111014	7/23/2017	7:32:49 AM	5	-5.15	21.2	85	736	
2980 DW NE CORNER SP.txt	7/23/2017	9:02:49 AM	CM15111014	7/23/2017	7:32:49 AM	6	-4.09	21.4	85	736	
2980 DW NE CORNER SP.txt	7/23/2017	9:17:49 AM	CM15111014	7/23/2017	7:32:49 AM	7	-6.14	21.8	85	736	
2980 DW NE CORNER SP.txt	7/23/2017	9:32:49 AM	CM15111014	7/23/2017	7:32:49 AM	8	-7.07	22.7	82	736	
2980 DW NE CORNER SP.txt	7/23/2017	9:47:49 AM	CM15111014	7/23/2017	7:32:49 AM	9	-7.82	23.4	79	736	
2980 DW NE CORNER SP.txt	7/23/2017	10:02:49 AM	CM15111014	7/23/2017	7:32:49 AM	10	-8.3	23.9	77	736	
2980 DW NE CORNER SP.txt	7/23/2017	10:17:49 AM	CM15111014	7/23/2017	7:32:49 AM	11	-8.48	23.9	75	736	
2980 DW NE CORNER SP.txt	7/23/2017	10:32:49 AM	CM15111014	7/23/2017	7:32:49 AM	12	-7.24	24.2	76	736	
2980 DW NE CORNER SP.txt	7/23/2017	10:47:49 AM	CM15111014	7/23/2017	7:32:49 AM	13	-8.16	24.7	75	736	
2980 DW NE CORNER SP.txt	7/23/2017	11:02:49 AM	CM15111014	7/23/2017	7:32:49 AM	14	-8.57	25.7	71	736	
2980 DW NE CORNER SP.txt	7/23/2017	11:17:49 AM	CM15111014	7/23/2017	7:32:49 AM	15	-6.12	26.5	69	736	
2980 DW NE CORNER SP.txt	7/23/2017	11:32:49 AM	CM15111014	7/23/2017	7:32:49 AM	16	-8.87	27.8	65	736	
2980 DW NE CORNER SP.txt	7/23/2017	11:47:49 AM	CM15111014	7/23/2017	7:32:49 AM	17	-6.83	28.9	61	736	
2980 DW NE CORNER SP.txt	7/23/2017	12:02:49 PM	CM15111014	7/23/2017	7:32:49 AM	18	-5.19	29.6	58	736	
2980 DW NE CORNER SP.txt	7/23/2017	12:17:49 PM	CM15111014	7/23/2017	7:32:49 AM	19	-10.49	30.4	56	736	
2980 DW NE CORNER SP.txt	7/23/2017	12:32:49 PM	CM15111014	7/23/2017	7:32:49 AM	20	-10.23	30.3	56	736	
2980 DW NE CORNER SP.txt	7/23/2017	12:47:49 PM	CM15111014	7/23/2017	7:32:49 AM	21	-8.99	29.5	58	736	
2980 DW NE CORNER SP.txt	7/23/2017	1:02:49 PM	CM15111014	7/23/2017	7:32:49 AM	22	-4.37	28.9	58	736	
2980 DW NE CORNER SP.txt	7/23/2017	1:17:49 PM	CM15111014	7/23/2017	7:32:49 AM	23	-3.84	29.4	57	736	
2980 DW NE CORNER SP.txt	7/23/2017	1:32:49 PM	CM15111014	7/23/2017	7:32:49 AM	24	-6.85	29.5	56	736	
2980 DW NE CORNER SP.txt	7/23/2017	1:47:49 PM	CM15111014	7/23/2017	7:32:49 AM	25	-6.83	28.9	56	736	
2980 DW NE CORNER SP.txt	7/23/2017	2:02:49 PM	CM15111014	7/23/2017	7:32:49 AM	26	-0.47	28.7	57	736	
2980 DW NE CORNER SP.txt	7/23/2017	2:17:49 PM	CM15111014	7/23/2017	7:32:49 AM	27	2.9	28.9	57	736	
1421 NW CORNER SX.txt	7/25/2017	7:30:40 AM	0115249975	7/25/2017	7:15:40 AM	1	-13.6	18.9	65	742	
1421 NW CORNER SX.txt	7/25/2017	7:45:40 AM	0115249975	7/25/2017	7:15:40 AM	2	-13.44	18.2	67	742	
1421 NW CORNER SX.txt	7/25/2017	8:00:40 AM	0115249975	7/25/2017	7:15:40 AM	3	-13.32	18.1	68	742	
1421 NW CORNER SX.txt	7/25/2017	8:15:40 AM	0115249975	7/25/2017	7:15:40 AM	4	-13.52	18	68	742	
1421 NW CORNER SX.txt	7/25/2017	8:30:40 AM	0115249975	7/25/2017	7:15:40 AM	5	-13.24	17.7	69	742	
1421 NW CORNER SX.txt	7/25/2017	8:45:40 AM	0115249975	7/25/2017	7:15:40 AM	6	-11.04	17.2	75	742	
1421 NW CORNER SX.txt	7/25/2017	9:00:40 AM	0115249975	7/25/2017	7:15:40 AM	7	-8.84	16.5	82	742	
1421 NW CORNER SX.txt	7/25/2017	9:15:40 AM	0115249975	7/25/2017	7:15:40 AM	8	-10.44	17.4	80	742	
1421 NW CORNER SX.txt	7/25/2017	9:30:40 AM	0115249975	7/25/2017	7:15:40 AM	9	-12.1	18	75	742	
1421 NW CORNER SX.txt	7/25/2017	9:45:40 AM	0115249975	7/25/2017	7:15:40 AM	10	-10.47	16.7	79	742	
1421 NW CORNER SX.txt	7/25/2017	10:00:40 AM	0115249975	7/25/2017	7:15:40 AM	11	-8.43	16.1	83	742	
1421 NW CORNER SX.txt	7/25/2017	10:15:40 AM	0115249975	7/25/2017	7:15:40 AM	12	-8.96	16.5	83	742	
1421 NW CORNER SX.txt	7/25/2017	10:30:40 AM	0115249975	7/25/2017	7:15:40 AM	13	-12.58	17.9	74	742	
1421 NW CORNER SX.txt	7/25/2017	10:45:40 AM	0115249975	7/25/2017	7:15:40 AM	14	-13.99	19.3	68	742	
1421 NW CORNER SX.txt	7/25/2017	11:00:40 AM	0115249975	7/25/2017	7:15:40 AM	15	-14.42	20	64	742	
1421 NW CORNER SX.txt	7/25/2017	11:15:40 AM	0115249975	7/25/2017	7:15:40 AM	16	-13.9	18.8	69	742	
1421 NW CORNER SX.txt	7/25/2017	11:30:40 AM	0115249975	7/25/2017	7:15:40 AM	17	-14.22	19	68	742	
1421 NW CORNER SX.txt	7/25/2017	11:45:40 AM	0115249975	7/25/2017	7:15:40 AM	18	-15.82	20.4	61	742	
1421 NW CORNER SX.txt	7/25/2017	12:00:40 PM	0115249975	7/25/2017	7:15:40 AM	19	-15.88	20.7	57	744	
1421 NW CORNER SX.txt	7/25/2017	12:15:40 PM	0115249975	7/25/2017	7:15:40 AM	20	-15.87	20.4	60	744	
1421 NW CORNER SX.txt	7/25/2017	12:30:40 PM	0115249975	7/25/2017	7:15:40 AM	21	-15.43	19.9	62	744	
1421 NW CORNER SX.txt	7/25/2017	12:45:40 PM	0115249975	7/25/2017	7:15:40 AM	22	-15.13	19.7	63	744	
1421 NW CORNER SX.txt	7/25/2017	1:00:40 PM	0115249975	7/25/2017	7:15:40 AM	23	-14.22	19	66	744	
1421 NW CORNER SX.txt	7/25/2017	1:15:40 PM	0115249975	7/25/2017	7:15:40 AM	24	-14.44	19.4	64	744	
1421 NW CORNER SX.txt	7/25/2017	1:30:40 PM	0115249975	7/25/2017	7:15:40 AM	25	-14.4	19.8	64	744	
1421 NW CORNER SX.txt	7/25/2017	1:45:40 PM	0115249975	7/25/2017	7:15:40 AM	26	-14.47	19.4	64	744	
1421 NW CORNER SX.txt	7/25/2017	2:00:40 PM	0115249975	7/25/2017	7:15:40 AM	27	-14.61	19.5	62	744	
1421 NW CORNER SX.txt	7/25/2017	2:15:40 PM	0115249975	7/25/2017	7:15:40 AM	28	-14.36	19.6	62	744	
1421 NW CORNER SX.txt	7/25/2017	2:30:40 PM	0115249975	7/25/2017	7:15:40 AM	29	-14.27	19.6	62	744	
1421 NW CORNER SX.txt	7/25/2017	2:45:40 PM	0115249975	7/25/2017	7:15:40 AM	30	-15.18	20.3	60	744	
1421 NW CORNER SX.txt	7/25/2017	3:00:40 PM	0115249975	7/25/2017	7:15:40 AM	31	-14.02	20.2	60	744	
1421 NW CORNER SX.txt	7/25/2017	3:15:40 PM	0115249975	7/25/2017	7:15:40 AM	32	-13.9	19.9	62	744	
1428 DW NE CORNER SX.txt	7/25/2017	7:30:33 AM	0115250007	7/25/2017	7:15:33 AM	1	-8.92	17.9	72	742	
1428 DW NE CORNER SX.txt	7/25/2017	7:45:33 AM	0115250007	7/25/2017	7:15:33 AM	2	-8.85	17.5	72	742	
1428 DW NE CORNER SX.txt	7/25/2017	8:00:33 AM	0115250007	7/25/2017	7:15:33 AM	3	-8.77	17.5	72	742	
1428 DW NE CORNER SX.txt	7/25/2017	8:15:33 AM	0115250007	7/25/2017	7:15:33 AM	4	-9.55	17.6	71	742	
1428 DW NE CORNER SX.txt	7/25/2017	8:30:33 AM	0115250007	7/25/2017	7:15:33 AM	5	-9.39	17.5	71	742	
1428 DW NE CORNER SX.txt	7/25/2017	8:45:33 AM	0115250007	7/25/2017	7:15:33 AM	6	-8.25	17.1	76	742	
1428 DW NE CORNER SX.txt	7/25/2017	9:00:33 AM	0115250007	7/25/2017	7:15:33 AM	7	-6.83	16.2	82	742	
1428 DW NE CORNER SX.txt	7/25/2017	9:15:33 AM	0115250007	7/25/2017	7:15:33 AM	8	-6.94	16.7	84	742	
1428 DW NE CORNER SX.txt	7/25/2017	9:30:33 AM	0115250007	7/25/2017	7:15:33 AM	9	-7.84	17.4	80	742	
1428 DW NE CORNER SX.txt	7/25/2017	9:45:33 AM	0115250007	7/25/2017	7:15:33 AM	10	-7.81	16.3	80	742	
1428 DW NE CORNER SX.txt	7/25/2017	10:00:33 AM	0115250007	7/25/2017	7:15:33 AM	11	-5.57	15.6	87	742	
1428 DW NE CORNER SX.txt	7/25/2017	10:15:33 AM	0115250007	7/25/2017	7:15:33 AM	12	-5.9	16	86	742	
1428 DW NE CORNER SX.txt	7/25/2017	10:30:33 AM	0115250007	7/25/2017	7:15:33 AM	13	-7.11	17.2	81	742	
1428 DW NE CORNER SX.txt	7/25/2017	10:45:33 AM	0115250007	7/25/2017	7:15:33 AM	14	-8.88	18.5	75	742	
1428 DW NE CORNER SX.txt	7/25/2017	11:00:33 AM	0115250007	7/25/2017	7:15:33 AM	15	-9.48	19.6	71	744	
1428 DW NE CORNER SX.txt	7/25/2017	11:15:33 AM	0115250007	7/25/2017	7:15:33 AM	16	-9.72	18.8	72	744	
1428 DW NE CORNER SX.txt	7/25/2017	11:30:33 AM	0115250007	7/25/2017	7:15:33 AM	17	-9.76	19	72	744	
1428 DW NE CORNER SX.txt	7/25/2017	11:45:33 AM	0115250007	7/25/2017	7:15:33 AM	18	-11.11	20.9	65	744	
1428 DW NE CORNER SX.txt	7/25/2017	12:00:33 PM	0115250007	7/25/2017	7:15:33 AM	19	-11.74	21.9	59	744	
1428 DW NE CORNER SX.txt	7/25/2017	12:15:33 PM	0115250007	7/25/2017	7:15:33 AM	20	-11.82	22	58	744	
1428 DW NE CORNER SX.txt	7/25/2017	12:30:33 PM	0115250007	7/25/2017	7:15:33 AM	21	-11.17	21.2	60	744	
1428 DW NE CORNER SX.txt	7/25/2017	12:45:33 PM	0115250007	7/25/2017	7:15:33 AM	22	-11.26	20.7	63	744	
1428 DW NE CORNER SX.txt	7/25/2017	1:00:33 PM	0115250007	7/25/2017	7:15:33 AM	23	-9.79	19.6	67	744	
1428 DW NE CORNER SX.txt	7/25/2017	1:15:33 PM	0115250007	7/25/2017	7:15:33 AM	24	-10.65	20	65	744	
1428 DW NE CORNER SX.txt	7/25/2017	1:30:33 PM	0115250007	7/25/2017	7:15:33 AM	25	-10.98	20.5	63	744	
1428 DW NE CORNER SX.txt	7/25/2017	1:45:33 PM	0115250007	7/25/2017	7:15:33 AM	26	-10.46	19.9	65	744	
1428 DW NE CORNER SX.txt	7/25/2017	2:00:33 PM	0115250007	7/25/2017	7:15:33 AM	27	-10.7	20.1	63	744	
1428 DW NE CORNER SX.txt	7/25/2017	2:15:33 PM	0115250007	7/25/2017	7:15:33 AM	28	-10.76	20.6	62	744	
1428 DW NE CORNER SX.txt	7/25/2017	2:30:33 PM	0115250007	7/25/2017	7:15:33 AM	29	-10.87	21	61	744	
1428 DW NE CORNER SX.txt	7/25/2017	2:45:33 PM	0115250007	7/25/2017	7:15:33 AM	30	-11.6	22.1	58	744	
1428 DW NE CORNER SX.txt	7/25/2017	3:00:33 PM	0115250007	7/25/2017	7:15:33 AM	31	-10.88	21.8	57	744	
1428 DW NE CORNER SX.txt	7/25/2017	3:15:33 PM	0115250007	7/25/2017	7:15:33 AM	32	-10.77	21.3	59	744	
1428 DW NE CORNER SX.txt	7/25/2017	3:30:33 PM	0115250007	7/25/2017	7:15:33 AM	33	-10.95	20.9	59	746	
1429 DW CENTER FENCE SX.txt	7/25/2017	7:29:10 AM	0115250009	7/25/2017	7:14:10 AM	1	-38.7	17.8	70	742	
1429 DW CENTER FENCE SX.txt	7/25/2017	7:44:10 AM	0115250009	7/25/2017	7:14:10 AM	2	-37.08	17.1	72	742	
1429 DW CENTER FENCE SX.txt	7/25/2017	7:59:10 AM	0115250009	7/25/2017	7:14:10 AM	3	-35.85	16.8	73	742	
1429 DW CENTER FENCE SX.txt	7/25/2017	8:14:10 AM	0115250009	7/25/2017	7:14:10 AM	4	-36.52	16.8	73	742	
1429 DW CENTER FENCE SX.txt	7/25/2017	8:29:10 AM	0115250009	7/25/2017	7:14:10 AM	5	-35.75	16.7	74	742	
1429 DW CENTER FENCE SX.txt	7/25/2017	8:44:10 AM	0115250009	7/25/2017	7:14:10 AM	6	-28.82	16.3	81	742	
1429 DW CENTER FENCE SX.txt	7/25/2017	8:59:10 AM	0115250009	7/25/2017	7:14:10 AM	7	-20.83	15.5	89	742	
1429 DW CENTER FENCE SX.txt	7/25/2017	9:14:10 AM	0115250009	7/25/2017	7:14:10 AM	8	-20.48	15.4	90	742	

Summary of CAMP Monitoring

Former Sperry Remington Site - North Portion
Elmira, New York

Unit Location	Record Date	Record Time	Unit Serial Number	Start Date	Start Time	Record #	Dust Concentration in µg/m^3	Temp	RHumidity	AtmoPressure in mm/Hg	Notes
1429 DW CENTER FENCE SX.txt	7/25/2017	9:29:10 AM	0115250009	7/25/2017	7:14:10 AM	9	-25.14	16	85	742	
1429 DW CENTER FENCE SX.txt	7/25/2017	9:44:10 AM	0115250009	7/25/2017	7:14:10 AM	10	-22.72	15.3	88	744	
1429 DW CENTER FENCE SX.txt	7/25/2017	9:59:10 AM	0115250009	7/25/2017	7:14:10 AM	11	-18.71	14.7	91	744	
1429 DW CENTER FENCE SX.txt	7/25/2017	10:14:10 AM	0115250009	7/25/2017	7:14:10 AM	12	-18.73	14.9	91	744	
1429 DW CENTER FENCE SX.txt	7/25/2017	10:29:10 AM	0115250009	7/25/2017	7:14:10 AM	13	-25.98	16	84	744	
1429 DW CENTER FENCE SX.txt	7/25/2017	10:44:10 AM	0115250009	7/25/2017	7:14:10 AM	14	-32.18	17.4	78	744	
1429 DW CENTER FENCE SX.txt	7/25/2017	10:59:10 AM	0115250009	7/25/2017	7:14:10 AM	15	-36.6	18.6	73	744	
1429 DW CENTER FENCE SX.txt	7/25/2017	11:14:10 AM	0115250009	7/25/2017	7:14:10 AM	16	-34.91	17.9	75	744	
1429 DW CENTER FENCE SX.txt	7/25/2017	11:29:10 AM	0115250009	7/25/2017	7:14:10 AM	17	-34.35	17.6	76	744	
1429 DW CENTER FENCE SX.txt	7/25/2017	11:44:10 AM	0115250009	7/25/2017	7:14:10 AM	18	-41.43	19	68	744	
1429 DW CENTER FENCE SX.txt	7/25/2017	11:59:10 AM	0115250009	7/25/2017	7:14:10 AM	19	-46.4	20	61	744	
1429 DW CENTER FENCE SX.txt	7/25/2017	12:14:10 PM	0115250009	7/25/2017	7:14:10 AM	20	-46.96	20.3	60	744	
1429 DW CENTER FENCE SX.txt	7/25/2017	12:29:10 PM	0115250009	7/25/2017	7:14:10 AM	21	-45.42	20.1	62	744	
1429 DW CENTER FENCE SX.txt	7/25/2017	12:44:10 PM	0115250009	7/25/2017	7:14:10 AM	22	-43.8	19.8	65	744	
1429 DW CENTER FENCE SX.txt	7/25/2017	12:59:10 PM	0115250009	7/25/2017	7:14:10 AM	23	-39.53	18.8	70	744	
1429 DW CENTER FENCE SX.txt	7/25/2017	1:14:10 PM	0115250009	7/25/2017	7:14:10 AM	24	-41.4	19.1	67	744	
1429 DW CENTER FENCE SX.txt	7/25/2017	1:29:10 PM	0115250009	7/25/2017	7:14:10 AM	25	-41.74	19.7	67	744	
1429 DW CENTER FENCE SX.txt	7/25/2017	1:44:10 PM	0115250009	7/25/2017	7:14:10 AM	26	-41.18	19.1	68	744	
1429 DW CENTER FENCE SX.txt	7/25/2017	1:59:10 PM	0115250009	7/25/2017	7:14:10 AM	27	-43.14	19.1	65	744	
1429 DW CENTER FENCE SX.txt	7/25/2017	2:14:10 PM	0115250009	7/25/2017	7:14:10 AM	28	-43.2	19.4	64	744	
1429 DW CENTER FENCE SX.txt	7/25/2017	2:29:10 PM	0115250009	7/25/2017	7:14:10 AM	29	-43.91	19.7	63	744	
1429 DW CENTER FENCE SX.txt	7/25/2017	2:44:10 PM	0115250009	7/25/2017	7:14:10 AM	30	-46.97	21	59	744	
1429 DW CENTER FENCE SX.txt	7/25/2017	2:59:10 PM	0115250009	7/25/2017	7:14:10 AM	31	-46.77	20.9	58	746	
1429 DW CENTER FENCE SX.txt	7/25/2017	3:14:10 PM	0115250009	7/25/2017	7:14:10 AM	32	-45.69	20.2	60	746	
1429 DW CENTER FENCE SX.txt	7/25/2017	3:29:10 PM	0115250009	7/25/2017	7:14:10 AM	33	-44.74	19.7	62	746	
2535 UW FENCE SX.txt	7/25/2017	7:36:26 AM	CM15111015	7/25/2017	7:21:26 AM	1	-15.06	17.7	67	742	
2535 UW FENCE SX.txt	7/25/2017	7:51:26 AM	CM15111015	7/25/2017	7:21:26 AM	2	-15.53	17.5	68	742	
2535 UW FENCE SX.txt	7/25/2017	8:06:26 AM	CM15111015	7/25/2017	7:21:26 AM	3	-16.2	17.5	68	742	
2535 UW FENCE SX.txt	7/25/2017	8:21:26 AM	CM15111015	7/25/2017	7:21:26 AM	4	-16.88	17.5	69	742	
2535 UW FENCE SX.txt	7/25/2017	8:36:26 AM	CM15111015	7/25/2017	7:21:26 AM	5	-16.72	17.2	70	742	
2535 UW FENCE SX.txt	7/25/2017	8:51:26 AM	CM15111015	7/25/2017	7:21:26 AM	6	-12.22	16	80	742	
2535 UW FENCE SX.txt	7/25/2017	9:06:26 AM	CM15111015	7/25/2017	7:21:26 AM	7	-11.09	15.7	86	742	
2535 UW FENCE SX.txt	7/25/2017	9:21:26 AM	CM15111015	7/25/2017	7:21:26 AM	8	-12.28	16.7	81	742	
2535 UW FENCE SX.txt	7/25/2017	9:36:26 AM	CM15111015	7/25/2017	7:21:26 AM	9	-12.71	16.3	83	742	
2535 UW FENCE SX.txt	7/25/2017	9:51:26 AM	CM15111015	7/25/2017	7:21:26 AM	10	-10.82	15	87	742	
2535 UW FENCE SX.txt	7/25/2017	10:06:26 AM	CM15111015	7/25/2017	7:21:26 AM	11	-8.75	14.9	89	742	
2535 UW FENCE SX.txt	7/25/2017	10:21:26 AM	CM15111015	7/25/2017	7:21:26 AM	12	-11.54	16.1	84	744	
2535 UW FENCE SX.txt	7/25/2017	10:36:26 AM	CM15111015	7/25/2017	7:21:26 AM	13	-15.97	17.8	75	744	
2535 UW FENCE SX.txt	7/25/2017	10:51:26 AM	CM15111015	7/25/2017	7:21:26 AM	14	-17.47	19.3	70	744	
2535 UW FENCE SX.txt	7/25/2017	11:06:26 AM	CM15111015	7/25/2017	7:21:26 AM	15	-18.54	19.5	66	744	
2535 UW FENCE SX.txt	7/25/2017	11:21:26 AM	CM15111015	7/25/2017	7:21:26 AM	16	-17.41	18.4	71	744	
2535 UW FENCE SX.txt	7/25/2017	11:36:26 AM	CM15111015	7/25/2017	7:21:26 AM	17	-19.44	19.9	64	744	
2535 UW FENCE SX.txt	7/25/2017	11:51:26 AM	CM15111015	7/25/2017	7:21:26 AM	18	-20.92	21.2	57	744	
2535 UW FENCE SX.txt	7/25/2017	12:06:26 PM	CM15111015	7/25/2017	7:21:26 AM	19	-21.48	21.5	55	744	
2535 UW FENCE SX.txt	7/25/2017	12:21:26 PM	CM15111015	7/25/2017	7:21:26 AM	20	-20.99	20.8	58	744	
2535 UW FENCE SX.txt	7/25/2017	12:36:26 PM	CM15111015	7/25/2017	7:21:26 AM	21	-20.26	20.3	61	744	
2535 UW FENCE SX.txt	7/25/2017	12:51:26 PM	CM15111015	7/25/2017	7:21:26 AM	22	-19.25	19.2	64	744	
2535 UW FENCE SX.txt	7/25/2017	1:06:26 PM	CM15111015	7/25/2017	7:21:26 AM	23	-18.04	19	65	744	
2535 UW FENCE SX.txt	7/25/2017	1:21:26 PM	CM15111015	7/25/2017	7:21:26 AM	24	-18	19.9	62	744	
2535 UW FENCE SX.txt	7/25/2017	1:36:26 PM	CM15111015	7/25/2017	7:21:26 AM	25	-18.32	19.5	64	744	
2535 UW FENCE SX.txt	7/25/2017	1:51:26 PM	CM15111015	7/25/2017	7:21:26 AM	26	-16.99	19.4	61	744	
2535 UW FENCE SX.txt	7/25/2017	2:06:26 PM	CM15111015	7/25/2017	7:21:26 AM	27	-18.1	20	60	744	
2535 UW FENCE SX.txt	7/25/2017	2:21:26 PM	CM15111015	7/25/2017	7:21:26 AM	28	-18.06	20.1	60	744	
2535 UW FENCE SX.txt	7/25/2017	2:36:26 PM	CM15111015	7/25/2017	7:21:26 AM	29	-19.99	20.7	58	744	
2535 UW FENCE SX.txt	7/25/2017	2:51:26 PM	CM15111015	7/25/2017	7:21:26 AM	30	-19.9	21	57	744	
2535 UW FENCE SX.txt	7/25/2017	3:06:26 PM	CM15111015	7/25/2017	7:21:26 AM	31	-15.89	20.3	60	744	
2535 UW FENCE SX.txt	7/25/2017	3:21:26 PM	CM15111015	7/25/2017	7:21:26 AM	32	-18.4	20	60	744	
818 DW NW FENCE SX.txt	7/25/2017	7:30:56 AM	0115249311	7/25/2017	7:15:56 AM	1	-11.59	19.2	67	742	
818 DW NW FENCE SX.txt	7/25/2017	7:45:56 AM	0115249311	7/25/2017	7:15:56 AM	2	-12.13	19.3	67	742	
818 DW NW FENCE SX.txt	7/25/2017	8:00:56 AM	0115249311	7/25/2017	7:15:56 AM	3	-12.02	19.7	65	742	
818 DW NW FENCE SX.txt	7/25/2017	8:15:56 AM	0115249311	7/25/2017	7:15:56 AM	4	-12.95	20.1	63	742	
818 DW NW FENCE SX.txt	7/25/2017	8:30:56 AM	0115249311	7/25/2017	7:15:56 AM	5	-13.02	20.1	63	742	
818 DW NW FENCE SX.txt	7/25/2017	8:45:56 AM	0115249311	7/25/2017	7:15:56 AM	6	-13.12	19.3	70	742	
818 DW NW FENCE SX.txt	7/25/2017	9:00:56 AM	0115249311	7/25/2017	7:15:56 AM	7	-13.35	18.8	78	742	
818 DW NW FENCE SX.txt	7/25/2017	9:15:56 AM	0115249311	7/25/2017	7:15:56 AM	8	-13.69	20.5	71	742	
818 DW NW FENCE SX.txt	7/25/2017	9:30:56 AM	0115249311	7/25/2017	7:15:56 AM	9	-14.09	21.3	64	742	
818 DW NW FENCE SX.txt	7/25/2017	9:45:56 AM	0115249311	7/25/2017	7:15:56 AM	10	-13.92	19.7	70	742	
818 DW NW FENCE SX.txt	7/25/2017	10:00:56 AM	0115249311	7/25/2017	7:15:56 AM	11	-12.87	18.9	76	742	
818 DW NW FENCE SX.txt	7/25/2017	10:15:56 AM	0115249311	7/25/2017	7:15:56 AM	12	-13.31	19.7	75	742	
818 DW NW FENCE SX.txt	7/25/2017	10:30:56 AM	0115249311	7/25/2017	7:15:56 AM	13	-14.32	21.9	63	742	
818 DW NW FENCE SX.txt	7/25/2017	10:45:56 AM	0115249311	7/25/2017	7:15:56 AM	14	-14.32	24.1	55	742	
818 DW NW FENCE SX.txt	7/25/2017	11:00:56 AM	0115249311	7/25/2017	7:15:56 AM	15	-13.39	25	52	744	
818 DW NW FENCE SX.txt	7/25/2017	11:15:56 AM	0115249311	7/25/2017	7:15:56 AM	16	-13.66	23.5	57	744	
818 DW NW FENCE SX.txt	7/25/2017	11:30:56 AM	0115249311	7/25/2017	7:15:56 AM	17	-14.08	24.4	54	744	
818 DW NW FENCE SX.txt	7/25/2017	11:45:56 AM	0115249311	7/25/2017	7:15:56 AM	18	-12.31	26.3	46	744	
818 DW NW FENCE SX.txt	7/25/2017	12:00:56 PM	0115249311	7/25/2017	7:15:56 AM	19	-10.85	26.5	44	744	
818 DW NW FENCE SX.txt	7/25/2017	12:15:56 PM	0115249311	7/25/2017	7:15:56 AM	20	-10.91	25.2	48	744	
818 DW NW FENCE SX.txt	7/25/2017	12:30:56 PM	0115249311	7/25/2017	7:15:56 AM	21	-10.84	23.5	53	744	
818 DW NW FENCE SX.txt	7/25/2017	12:45:56 PM	0115249311	7/25/2017	7:15:56 AM	22	-10.72	22.7	58	744	
818 DW NW FENCE SX.txt	7/25/2017	1:00:56 PM	0115249311	7/25/2017	7:15:56 AM	23	-10.54	22	59	744	
818 DW NW FENCE SX.txt	7/25/2017	1:15:56 PM	0115249311	7/25/2017	7:15:56 AM	24	-10.67	22.7	57	744	
818 DW NW FENCE SX.txt	7/25/2017	1:30:56 PM	0115249311	7/25/2017	7:15:56 AM	25	-10.48	22.9	58	744	
818 DW NW FENCE SX.txt	7/25/2017	1:45:56 PM	0115249311	7/25/2017	7:15:56 AM	26	-10.51	22.4	57	744	
818 DW NW FENCE SX.txt	7/25/2017	2:00:56 PM	0115249311	7/25/2017	7:15:56 AM	27	-9.2	22.7	55	744	
818 DW NW FENCE SX.txt	7/25/2017	2:15:56 PM	0115249311	7/25/2017	7:15:56 AM	28	-10.03	22.9	55	744	
818 DW NW FENCE SX.txt	7/25/2017	2:30:56 PM	0115249311	7/25/2017	7:15:56 AM	29	-10.24	23.3	54	744	
818 DW NW FENCE SX.txt	7/25/2017	2:45:56 PM	0115249311	7/25/2017	7:15:56 AM	30	-10.76	23.5	53	744	
818 DW NW FENCE SX.txt	7/25/2017	3:00:56 PM	0115249311	7/25/2017	7:15:56 AM	31	-9.61	23.3	54	744	
818 DW NW FENCE SX.txt	7/25/2017	3:15:56 PM	0115249311	7/25/2017	7:15:56 AM	32	-10	23	54	744	
0818 DW NW FENCE SX.txt	7/26/2017	7:44:57 AM	0115249311	7/26/2017	7:29:57 AM	1	-2.54	16.5	70	746	
0818 DW NW FENCE SX.txt	7/26/2017	7:59:57 AM	0115249311	7/26/2017	7:29:57 AM	2	-2.96	17.1	69	746	
0818 DW NW FENCE SX.txt	7/26/2017	8:14:57 AM	0115249311	7/26/2017	7:29:57 AM	3	-2.55	17.7	67	746	
0818 DW NW FENCE SX.txt	7/26/2017	8:29:57 AM	0115249311	7/26/2017	7:29:57 AM	4	-1.92	18.4	65	746	
0818 DW NW FENCE SX.txt	7/26/2017	8:44:57 AM	0115249311	7/26/2017	7:29:57 AM	5	-0.73	19.5	62	746	
0818 DW NW FENCE SX.txt	7/26/2017	8:59:57 AM	0115249311	7/26/2017	7:29:57 AM	6	-0.65	20.3	59	746	
0818 DW NW FENCE SX.txt	7/26/2017	9:14:57 AM	0115249311	7/26/2017	7:29:57 AM	7	1.24	20.7	58	746	
0818 DW NW FENCE SX.txt	7/26/2017	9:29:57 AM	0115249311	7/26/2017	7:29:57 AM	8	0.21	20.7	58	746	
0818 DW NW FENCE SX.txt	7/26/2017	9:44:57 AM	0115249311	7/26/2017	7:29:57 AM	9	0.1	21.7	56	746	
0818 DW NW FENCE SX.txt	7/26/2017	9:59:57 AM	0115249311	7/26/2017	7:29:57 AM	10	0.78	22.8	53	746	
0818 DW NW FENCE SX.txt	7/26/2017	10:14:57 AM	0115249311	7/26/2017	7:29:57 AM	11	2.53	24.1	50	746	
0818 DW NW FENCE SX.txt	7/26/2017	10:29:57 AM	0115249311	7/26/2017	7:29:57 AM	12	1.79	25.6	46	746	
0818 DW NW FENCE SX.txt	7/26/2017	10:44:57 AM	0115249311	7/26/2017	7:29:57 AM	13	3.73	27	43	746	
0818 DW NW FENCE SX.txt	7/26/2017	10:59:57 AM	0115249311	7/26/2017	7:29:57 AM	14	3.94	27.2	42	746	
0818 DW NW FENCE SX.txt	7/26/2017	11:14:57 AM	0115249311	7/26/2017	7:29:57 AM	15	9.69	27.1	42	746	
0818 DW NW FENCE SX.txt	7/26/2017	11:29:57 AM	0115249311	7/26/2017	7:29:57 AM	16	2.96	28.2	40	746	
0818 DW NW FENCE SX.txt	7/26/2017	11:44:57 AM	0115249311	7/26/2017	7:29:57 AM	17	4.43	28.8	38	746	
0818 DW NW FENCE SX.txt	7/26/2017	11:59:57 AM	0115249311	7/26/2017	7:29:57 AM	18	3.96	27.6	42	746	
0818 DW NW FENCE SX.txt	7/26/2017	12:14:57 PM	0115249311	7/26/2017	7:29:57 AM	19	3.01	26.4	45	746	
0818 DW NW FENCE SX.txt	7/26/2017	12:29:57 PM	0115249311	7/26/2017	7:29:57 AM	20	3.23	26.5	46	746	
0818 DW NW FENCE SX.txt	7/26/2017	12:44:57 PM	0115249311	7/26/2017	7:29:57 AM	21	7.45	26.3	45	746	
0818 DW NW FENCE SX.txt	7/26/2017	12:59:57 PM	0115249311	7/26/2017	7:29:57 AM	22	16.49	25.9	46	744	
0818 DW NW FENCE SX.txt	7/26/2017	1:14:57 PM	0115249311	7/26/2017	7:29:57 AM	23	9.17	26	44	744	
0818 DW NW FENCE SX.txt	7/26/2017	1:29:57 PM	0115249311	7/26/2017	7:29:57 AM	24	9	26.8	43	744	
0818 DW NW FENCE SX.txt	7/26/2017	1:44:57 PM	0115249311	7/26/2017	7:29:57 AM	25	6.05	28.1	40	744	
0818 DW NW FENCE SX.txt	7/26/2017	1:59:57 PM	0115249311	7/26/2017	7:29:57 AM	26	5.89	28.9	37	744	
0818 DW NW FENCE SX.txt	7/26/2017	2:14:57 PM	0115249311	7/26/2017	7:29:57 AM	27	5.75	29.6	38	744	
0818 DW NW FENCE SX.txt	7/26/2017	2:29:57 PM	0115249311	7/26/2017	7:29:57 AM	28	8.4	29.2	38	744	
0818 DW NW FENCE SX.txt	7/26/2017	2:44:57 PM	0115249311	7/26/2017	7:29:57 AM	29	6.88	28.2	40	744	
0818 DW NW FENCE SX.txt	7/26/2017	2:59:57 PM	0115249311	7/26/2017	7:29:57 AM	30	45.92	27.9	41	744	
0818 DW NW FENCE SX.txt	7/26/2017	3:14:57 PM	0115249311	7/26/2017	7:29:57 AM	31	15.39	27.8	41	744	
0818 DW NW FENCE SX.txt	7/26/2017	3:29:57 PM	0115249311	7/26/2017	7:29:57 AM	32	9.1	27.8	40	744	
0818 DW NW FENCE SX.txt	7/26/2017	3:44:57 PM	0115249311	7/26/2017	7:29:57 AM	33	8.71	27.6	41	744	
0818 DW NW FENCE SX.txt	7/26/2017	3:59:57 PM	0115249311	7/26/2017	7:29:57 AM	34	7.19	27.8	41	744	
1421 DW NW CORN SX.txt	7/26/2017	7:42:39 AM	0115249975	7/26/2017	7:27:39 AM	1	-9.16	16.4	72	746	
1421 DW NW CORN SX.txt	7/26/2017	7:57:39 AM	0115249975	7/26/2017	7:27:39 AM	2	-10.15	16.8	70	746	

Summary of CAMP Monitoring

Beech and Bonaparte

Former Sperry Remington Site - North Portion
Elmira, New York

Unit Location	Record Date	Record Time	Unit Serial Number	Start Date	Start Time	Record #	Dust Concentration in µg/m^3	Temp	RHumidity	AtmoPressure in mm/Hg	Notes
1421 DW NW CORN SX.txt	7/26/2017	8:12:39 AM	0115249975	7/26/2017	7:27:39 AM	3	-10.67	17.4	68	746	
1421 DW NW CORN SX.txt	7/26/2017	8:27:39 AM	0115249975	7/26/2017	7:27:39 AM	4	-11.14	18.1	65	746	
1421 DW NW CORN SX.txt	7/26/2017	8:42:39 AM	0115249975	7/26/2017	7:27:39 AM	5	-10.18	19.2	62	746	
1421 DW NW CORN SX.txt	7/26/2017	8:57:39 AM	0115249975	7/26/2017	7:27:39 AM	6	-10.51	20	59	746	
1421 DW NW CORN SX.txt	7/26/2017	9:12:39 AM	0115249975	7/26/2017	7:27:39 AM	7	-11.23	20.7	57	746	
1421 DW NW CORN SX.txt	7/26/2017	9:27:39 AM	0115249975	7/26/2017	7:27:39 AM	8	-9.94	21	56	746	
1421 DW NW CORN SX.txt	7/26/2017	9:42:39 AM	0115249975	7/26/2017	7:27:39 AM	9	-11.56	21.6	55	746	
1421 DW NW CORN SX.txt	7/26/2017	9:57:39 AM	0115249975	7/26/2017	7:27:39 AM	10	-11.63	23.2	50	746	
1421 DW NW CORN SX.txt	7/26/2017	10:12:39 AM	0115249975	7/26/2017	7:27:39 AM	11	-11.63	24.1	48	746	
1421 DW NW CORN SX.txt	7/26/2017	10:27:39 AM	0115249975	7/26/2017	7:27:39 AM	12	-12.05	26	43	746	
1421 DW NW CORN SX.txt	7/26/2017	10:42:39 AM	0115249975	7/26/2017	7:27:39 AM	13	-11.19	27.6	40	746	
1421 DW NW CORN SX.txt	7/26/2017	10:57:39 AM	0115249975	7/26/2017	7:27:39 AM	14	-11.12	28.3	38	746	
1421 DW NW CORN SX.txt	7/26/2017	11:12:39 AM	0115249975	7/26/2017	7:27:39 AM	15	-6.25	28.2	39	746	
1421 DW NW CORN SX.txt	7/26/2017	11:27:39 AM	0115249975	7/26/2017	7:27:39 AM	16	-11.74	29.5	36	746	
1421 DW NW CORN SX.txt	7/26/2017	11:42:39 AM	0115249975	7/26/2017	7:27:39 AM	17	-11.45	29.9	35	746	
1421 DW NW CORN SX.txt	7/26/2017	11:57:39 AM	0115249975	7/26/2017	7:27:39 AM	18	-9.29	28.8	37	746	
1421 DW NW CORN SX.txt	7/26/2017	12:12:39 PM	0115249975	7/26/2017	7:27:39 AM	19	-11.75	27.9	40	746	
1421 DW NW CORN SX.txt	7/26/2017	12:27:39 PM	0115249975	7/26/2017	7:27:39 AM	20	-11.55	27.7	40	746	
1421 DW NW CORN SX.txt	7/26/2017	12:42:39 PM	0115249975	7/26/2017	7:27:39 AM	21	-10.01	27.2	41	746	
1421 DW NW CORN SX.txt	7/26/2017	12:57:39 PM	0115249975	7/26/2017	7:27:39 AM	22	-8.77	26.4	41	744	
1421 DW NW CORN SX.txt	7/26/2017	1:12:39 PM	0115249975	7/26/2017	7:27:39 AM	23	-4.37	26.5	41	744	
1421 DW NW CORN SX.txt	7/26/2017	1:27:39 PM	0115249975	7/26/2017	7:27:39 AM	24	-9.43	27.2	40	744	
1421 DW NW CORN SX.txt	7/26/2017	1:42:39 PM	0115249975	7/26/2017	7:27:39 AM	25	-9.34	28.2	38	744	
1421 DW NW CORN SX.txt	7/26/2017	1:57:39 PM	0115249975	7/26/2017	7:27:39 AM	26	-10.42	29	36	744	
1421 DW NW CORN SX.txt	7/26/2017	2:12:39 PM	0115249975	7/26/2017	7:27:39 AM	27	-8.6	29.6	36	744	
1421 DW NW CORN SX.txt	7/26/2017	2:27:39 PM	0115249975	7/26/2017	7:27:39 AM	28	-5.58	29.3	36	744	
1421 DW NW CORN SX.txt	7/26/2017	2:42:39 PM	0115249975	7/26/2017	7:27:39 AM	29	11.52	28.4	38	744	
1421 DW NW CORN SX.txt	7/26/2017	2:57:39 PM	0115249975	7/26/2017	7:27:39 AM	30	1.2	28.1	39	744	
1421 DW NW CORN SX.txt	7/26/2017	3:12:39 PM	0115249975	7/26/2017	7:27:39 AM	31	4.08	28.4	38	744	
1421 DW NW CORN SX.txt	7/26/2017	3:27:39 PM	0115249975	7/26/2017	7:27:39 AM	32	-3.64	29	36	744	
1421 DW NW CORN SX.txt	7/26/2017	3:42:39 PM	0115249975	7/26/2017	7:27:39 AM	33	-5.06	28.9	36	744	
1421 DW NW CORN SX.txt	7/26/2017	3:57:39 PM	0115249975	7/26/2017	7:27:39 AM	34	1.94	29.2	36	744	
1421 DW NW CORN SX.txt	7/26/2017	4:12:39 PM	0115249975	7/26/2017	7:27:39 AM	35	-1.17	29.8	35	744	
1421 DW NW CORN SX.txt	7/26/2017	4:27:39 PM	0115249975	7/26/2017	7:27:39 AM	36	41.31	30.2	34	744	
1421 DW NW CORN SX.txt	7/26/2017	4:42:39 PM	0115249975	7/26/2017	7:27:39 AM	37	-0.75	30.9	33	742	
1422 DW NE FENCE SP.txt	7/26/2017	8:16:43 AM	0115249980	7/26/2017	8:01:43 AM	1	44.25	16.7	67	746	
1422 DW NE FENCE SP.txt	7/26/2017	8:31:43 AM	0115249980	7/26/2017	8:01:43 AM	2	20.62	16.4	68	746	
1422 DW NE FENCE SP.txt	7/26/2017	8:46:43 AM	0115249980	7/26/2017	8:01:43 AM	3	23.65	16.4	70	746	
1422 DW NE FENCE SP.txt	7/26/2017	9:01:43 AM	0115249980	7/26/2017	8:01:43 AM	4	-0.54	16.7	68	746	
1422 DW NE FENCE SP.txt	7/26/2017	9:16:43 AM	0115249980	7/26/2017	8:01:43 AM	5	-0.6	16.9	68	746	
1422 DW NE FENCE SP.txt	7/26/2017	9:31:43 AM	0115249980	7/26/2017	8:01:43 AM	6	10.05	17.3	66	746	
1422 DW NE FENCE SP.txt	7/26/2017	9:46:43 AM	0115249980	7/26/2017	8:01:43 AM	7	3.81	17.3	66	746	
1422 DW NE FENCE SP.txt	7/26/2017	10:01:43 AM	0115249980	7/26/2017	8:01:43 AM	8	4.34	17.5	66	746	
1422 DW NE FENCE SP.txt	7/26/2017	10:16:43 AM	0115249980	7/26/2017	8:01:43 AM	9	37.9	18.1	65	746	
1422 DW NE FENCE SP.txt	7/26/2017	10:31:43 AM	0115249980	7/26/2017	8:01:43 AM	10	7.12	19	63	746	
1422 DW NE FENCE SP.txt	7/26/2017	10:46:43 AM	0115249980	7/26/2017	8:01:43 AM	11	5.79	20.2	59	746	
1422 DW NE FENCE SP.txt	7/26/2017	11:01:43 AM	0115249980	7/26/2017	8:01:43 AM	12	15.51	21	57	746	
1422 DW NE FENCE SP.txt	7/26/2017	11:16:43 AM	0115249980	7/26/2017	8:01:43 AM	13	-0.98	21.1	57	746	
1422 DW NE FENCE SP.txt	7/26/2017	11:31:43 AM	0115249980	7/26/2017	8:01:43 AM	14	41.64	21.3	56	746	
1422 DW NE FENCE SP.txt	7/26/2017	11:46:43 AM	0115249980	7/26/2017	8:01:43 AM	15	-1.06	22	55	746	
1422 DW NE FENCE SP.txt	7/26/2017	12:01:43 PM	0115249980	7/26/2017	8:01:43 AM	16	60.35	22.5	54	746	
1422 DW NE FENCE SP.txt	7/26/2017	12:16:43 PM	0115249980	7/26/2017	8:01:43 AM	17	0.79	22.3	54	744	
1422 DW NE FENCE SP.txt	7/26/2017	12:31:43 PM	0115249980	7/26/2017	8:01:43 AM	18	-0.62	22.6	55	744	
1422 DW NE FENCE SP.txt	7/26/2017	12:46:43 PM	0115249980	7/26/2017	8:01:43 AM	19	64.4	22.8	52	746	
1422 DW NE FENCE SP.txt	7/26/2017	1:01:43 PM	0115249980	7/26/2017	8:01:43 AM	20	25.54	22.3	52	744	
1422 DW NE FENCE SP.txt	7/26/2017	1:16:43 PM	0115249980	7/26/2017	8:01:43 AM	21	30.73	21.9	52	744	
1422 DW NE FENCE SP.txt	7/26/2017	1:31:43 PM	0115249980	7/26/2017	8:01:43 AM	22	104.53	22.2	52	744	
1422 DW NE FENCE SP.txt	7/26/2017	1:46:43 PM	0115249980	7/26/2017	8:01:43 AM	23	53.99	22.7	51	744	
1422 DW NE FENCE SP.txt	7/26/2017	2:01:43 PM	0115249980	7/26/2017	8:01:43 AM	24	63.67	23.8	49	744	
1422 DW NE FENCE SP.txt	7/26/2017	2:16:43 PM	0115249980	7/26/2017	8:01:43 AM	25	1.19	25.7	47	744	
1422 DW NE FENCE SP.txt	7/26/2017	2:31:43 PM	0115249980	7/26/2017	8:01:43 AM	26	84.3	27.6	43	744	
1422 DW NE FENCE SP.txt	7/26/2017	2:46:43 PM	0115249980	7/26/2017	8:01:43 AM	27	54.94	27.8	40	744	
1428 DW NE CORN SX.txt	7/26/2017	7:43:59 AM	0115250007	7/26/2017	7:28:59 AM	1	-1.6	15.3	77	746	
1428 DW NE CORN SX.txt	7/26/2017	7:58:59 AM	0115250007	7/26/2017	7:28:59 AM	2	-1.67	15.9	75	746	
1428 DW NE CORN SX.txt	7/26/2017	8:13:59 AM	0115250007	7/26/2017	7:28:59 AM	3	-2	16.5	72	746	
1428 DW NE CORN SX.txt	7/26/2017	8:28:59 AM	0115250007	7/26/2017	7:28:59 AM	4	-2.2	17	71	746	
1428 DW NE CORN SX.txt	7/26/2017	8:43:59 AM	0115250007	7/26/2017	7:28:59 AM	5	-1.16	17.8	69	746	
1428 DW NE CORN SX.txt	7/26/2017	8:58:59 AM	0115250007	7/26/2017	7:28:59 AM	6	-1.77	18.7	67	746	
1428 DW NE CORN SX.txt	7/26/2017	9:13:59 AM	0115250007	7/26/2017	7:28:59 AM	7	-2.01	18.8	66	746	
1428 DW NE CORN SX.txt	7/26/2017	9:28:59 AM	0115250007	7/26/2017	7:28:59 AM	8	-2.04	18.9	66	746	
1428 DW NE CORN SX.txt	7/26/2017	9:43:59 AM	0115250007	7/26/2017	7:28:59 AM	9	-2.13	19.5	64	746	
1428 DW NE CORN SX.txt	7/26/2017	9:58:59 AM	0115250007	7/26/2017	7:28:59 AM	10	-2.14	19.8	64	746	
1428 DW NE CORN SX.txt	7/26/2017	10:13:59 AM	0115250007	7/26/2017	7:28:59 AM	11	-1.57	19.8	63	746	
1428 DW NE CORN SX.txt	7/26/2017	10:28:59 AM	0115250007	7/26/2017	7:28:59 AM	12	-2.46	20.7	62	746	
1428 DW NE CORN SX.txt	7/26/2017	10:43:59 AM	0115250007	7/26/2017	7:28:59 AM	13	-1.77	22.4	59	746	
1428 DW NE CORN SX.txt	7/26/2017	10:58:59 AM	0115250007	7/26/2017	7:28:59 AM	14	-2.22	23.4	55	746	
1428 DW NE CORN SX.txt	7/26/2017	11:13:59 AM	0115250007	7/26/2017	7:28:59 AM	15	-1.09	22.7	56	746	
1428 DW NE CORN SX.txt	7/26/2017	11:28:59 AM	0115250007	7/26/2017	7:28:59 AM	16	-1.53	23.1	56	746	
1428 DW NE CORN SX.txt	7/26/2017	11:43:59 AM	0115250007	7/26/2017	7:28:59 AM	17	-2.64	24.2	54	746	
1428 DW NE CORN SX.txt	7/26/2017	11:58:59 AM	0115250007	7/26/2017	7:28:59 AM	18	-1.21	24.4	52	746	
1428 DW NE CORN SX.txt	7/26/2017	12:13:59 PM	0115250007	7/26/2017	7:28:59 AM	19	-2.61	23.9	54	746	
1428 DW NE CORN SX.txt	7/26/2017	12:28:59 PM	0115250007	7/26/2017	7:28:59 AM	20	-1.29	24.1	55	746	
1428 DW NE CORN SX.txt	7/26/2017	12:43:59 PM	0115250007	7/26/2017	7:28:59 AM	21	0.4	25	53	746	
1428 DW NE CORN SX.txt	7/26/2017	12:58:59 PM	0115250007	7/26/2017	7:28:59 AM	22	0.52	24.9	51	746	
1428 DW NE CORN SX.txt	7/26/2017	1:13:59 PM	0115250007	7/26/2017	7:28:59 AM	23	1.53	24.3	51	746	
1428 DW NE CORN SX.txt	7/26/2017	1:28:59 PM	0115250007	7/26/2017	7:28:59 AM	24	-0.67	24.1	52	746	
1428 DW NE CORN SX.txt	7/26/2017	1:43:59 PM	0115250007	7/26/2017	7:28:59 AM	25	-0.37	24.6	52	746	
1428 DW NE CORN SX.txt	7/26/2017	1:58:59 PM	0115250007	7/26/2017	7:28:59 AM	26	-1.83	25.2	51	746	
1428 DW NE CORN SX.txt	7/26/2017	2:13:59 PM	0115250007	7/26/2017	7:28:59 AM	27	18.16	26.7	48	744	
1428 DW NE CORN SX.txt	7/26/2017	2:28:59 PM	0115250007	7/26/2017	7:28:59 AM	28	0.41	28.7	44	746	
1428 DW NE CORN SX.txt	7/26/2017	2:43:59 PM	0115250007	7/26/2017	7:28:59 AM	29	9.71	29.2	42	744	
1428 DW NE CORN SX.txt	7/26/2017	2:58:59 PM	0115250007	7/26/2017	7:28:59 AM	30	1.98	29.2	43	744	
1428 DW NE CORN SX.txt	7/26/2017	3:13:59 PM	0115250007	7/26/2017	7:28:59 AM	31	5.62	28.8	42	744	
1428 DW NE CORN SX.txt	7/26/2017	3:28:59 PM	0115250007	7/26/2017	7:28:59 AM	32	1.78	28.3	43	744	
1428 DW NE CORN SX.txt	7/26/2017	3:43:59 PM	0115250007	7/26/2017	7:28:59 AM	33	12.88	28.8	42	744	
1428 DW NE CORN SX.txt	7/26/2017	3:58:59 PM	0115250007	7/26/2017	7:28:59 AM	34	6.92	28.5	42	744	
1428 DW NE CORN SX.txt	7/26/2017	4:13:59 PM	0115250007	7/26/2017	7:28:59 AM	35	6.08	28.1	43	744	
1428 DW NE CORN SX.txt	7/26/2017	4:28:59 PM	0115250007	7/26/2017	7:28:59 AM	36	32.01	27.8	44	744	
1428 DW NE CORN SX.txt	7/26/2017	4:43:59 PM	0115250007	7/26/2017	7:28:59 AM	37	36.11	28.2	43	744	
1429 DW N CENTER SX.txt	7/26/2017	7:44:47 AM	0115250009	7/26/2017	7:29:47 AM	1	-2.33	15.2	75	748	
1429 DW N CENTER SX.txt	7/26/2017	7:59:47 AM	0115250009	7/26/2017	7:29:47 AM	2	-2.43	15.4	75	748	
1429 DW N CENTER SX.txt	7/26/2017	8:14:47 AM	0115250009	7/26/2017	7:29:47 AM	3	-2.68	15.8	74	748	
1429 DW N CENTER SX.txt	7/26/2017	8:29:47 AM	0115250009	7/26/2017	7:29:47 AM	4	-2.52	16.2	72	748	
1429 DW N CENTER SX.txt	7/26/2017	8:44:47 AM	0115250009	7/26/2017	7:29:47 AM	5	-1.73	16.7	71	748	
1429 DW N CENTER SX.txt	7/26/2017	8:59:47 AM	0115250009	7/26/2017	7:29:47 AM	6	-2.3	17.2	69	746	
1429 DW N CENTER SX.txt	7/26/2017	9:14:47 AM	0115250009	7/26/2017	7:29:47 AM	7	-2.21	17.7	67	748	
1429 DW N CENTER SX.txt	7/26/2017	9:29:47 AM	0115250009	7/26/2017	7:29:47 AM	8	-2.51	18.1	66	746	
1429 DW N CENTER SX.txt	7/26/2017	9:44:47 AM	0115250009	7/26/2017	7:29:47 AM	9	-2.54	18.5	65	746	
1429 DW N CENTER SX.txt	7/26/2017	9:59:47 AM	0115250009	7/26/2017	7:29:47 AM	10	-2.97	19	63	746	
1429 DW N CENTER SX.txt	7/26/2017	10:14:47 AM	0115250009	7/26/2017	7:29:47 AM	11	-2.44	19.5	62	746	
1429 DW N CENTER SX.txt	7/26/2017	10:29:47 AM	0115250009	7/26/2017	7:29:47 AM	12	-3.21	20.3	58	746	
1429 DW N CENTER SX.txt	7/26/2017	10:44:47 AM	0115250009	7/26/2017	7:29:47 AM	13	-2.98	21.2	56	746	
1429 DW N CENTER SX.txt	7/26/2017	10:59:47 AM	0115250009	7/26/2017	7:29:47 AM	14	-2.77	21.8	55	746	
1429 DW N CENTER SX.txt	7/26/2017	11:14:47 AM	0115250009	7/26/2017	7:29:47 AM	15	0.27	21.8	54	746	
1429 DW N CENTER SX.txt	7/26/2017	11:29:47 AM	0115250009	7/26/2017	7:29:47 AM	16	-3.1	22.7	53	746	
1429 DW N CENTER SX.txt	7/26/2017	11:44:47 AM	0115250009	7/26/2017	7:29:47 AM	17	-2.74	23.5	52	746	
1429 DW N CENTER SX.txt	7/26/2017	11:59:47 AM	0115250009	7/26/2017	7:29:47 AM	18	-2.26	23.4	52	746	
1429 DW N CENTER SX.txt	7/26/2017	12:14:47 PM	0115250009	7/26/2017	7:29:47 AM	19	-3.44	23.2	53	746	
1429 DW N CENTER SX.txt	7/26/2017	12:29:47 PM	0115250009	7/26/2017	7:29:47 AM	20	-3.36	23.5	53	746	
1429 DW N CENTER SX.txt	7/26/2017	12:44:47 PM	0115250009	7/26/2017	7:29:47 AM	21	-1	23.8	52	746	
1429 DW N CENTER SX.txt	7/26/2017	12:59:47 PM	0115250009	7/26/2017	7:29:47 AM	22	8.38	23.6	51	746	
1429 DW N CENTER SX.txt	7/26/2017	1:14:47 PM	0115250009	7/26/2017	7:29:47 AM	23	-0.19	23.8	50	746	
1429 DW N CENTER SX.txt	7/26/2017	1:29:47 PM	0115250009	7/26/2017	7:29:47 AM	24	-1.52	24.4	48	746	
1429 DW N CENTER SX.txt	7/26/2017	1:44:47 PM	0115250009	7/26/2017	7:29:47 AM	25	-0.17	25.4	47	746	
1429 DW N CENTER SX.txt	7/26/2017	1:59:47 PM	0115250009	7/26/2017	7:29:47 AM	26	-1.69	26.4	44	746	
1429 DW N CENTER SX.txt	7/26/2017	2:14:47 PM	0115250009	7/26/2017	7:29:47 AM	27	-0.64	27.7	42	746	
1429 DW N CENTER SX.txt	7/26/2017	2:29:47 PM	0115250009	7/26/2017	7:29:47 AM	28	3.2	28.4	41	744	
1429 DW N CENTER SX.txt	7/26/2017	2:44:47 PM	0115250009	7/26/2017	7:29:47 AM	29	9.5	27.6	42	744	

Summary of CAMP Monitoring

Beech and Bonaparte

Former Sperry Remington Site - North Portion
Elmira, New York

Unit Location	Record Date	Record Time	Unit Serial Number	Start Date	Start Time	Record #	Dust Concentration in µg/m^3	Temp	RHumidity	AtmoPressure in mm/Hg	Notes
1429 DW N CENTER SX.txt	7/26/2017	2:59:47 PM	0115250009	7/26/2017	7:29:47 AM	30	9.57	27.7	42	744	
1429 DW N CENTER SX.txt	7/26/2017	3:14:47 PM	0115250009	7/26/2017	7:29:47 AM	31	11.95	27.9	41	744	
1429 DW N CENTER SX.txt	7/26/2017	3:29:47 PM	0115250009	7/26/2017	7:29:47 AM	32	17.84	28	40	744	
1429 DW N CENTER SX.txt	7/26/2017	3:44:47 PM	0115250009	7/26/2017	7:29:47 AM	33	15.22	28.1	40	744	
1429 DW N CENTER SX.txt	7/26/2017	3:59:47 PM	0115250009	7/26/2017	7:29:47 AM	34	6.65	28.3	40	744	
1429 DW N CENTER SX.txt	7/26/2017	4:14:47 PM	0115250009	7/26/2017	7:29:47 AM	35	5.25	28.6	39	744	
1429 DW N CENTER SX.txt	7/26/2017	4:29:47 PM	0115250009	7/26/2017	7:29:47 AM	36	72.07	28.4	39	744	
1860 DW NW FENCE SP.txt	7/26/2017	8:20:41 AM	0115250203	7/26/2017	8:05:41 AM	1	0.05	17.3	68	746	
1860 DW NW FENCE SP.txt	7/26/2017	8:35:41 AM	0115250203	7/26/2017	8:05:41 AM	2	0.86	17.8	66	746	
1860 DW NW FENCE SP.txt	7/26/2017	8:50:41 AM	0115250203	7/26/2017	8:05:41 AM	3	2.45	18.7	65	746	
1860 DW NW FENCE SP.txt	7/26/2017	9:05:41 AM	0115250203	7/26/2017	8:05:41 AM	4	-0.1	19.4	63	746	
1860 DW NW FENCE SP.txt	7/26/2017	9:20:41 AM	0115250203	7/26/2017	8:05:41 AM	5	0.09	19.5	62	746	
1860 DW NW FENCE SP.txt	7/26/2017	9:35:41 AM	0115250203	7/26/2017	8:05:41 AM	6	-0.16	19.8	61	746	
1860 DW NW FENCE SP.txt	7/26/2017	9:50:41 AM	0115250203	7/26/2017	8:05:41 AM	7	4.52	21.4	58	746	
1860 DW NW FENCE SP.txt	7/26/2017	10:05:41 AM	0115250203	7/26/2017	8:05:41 AM	8	-0.11	23.1	54	746	
1860 DW NW FENCE SP.txt	7/26/2017	10:20:41 AM	0115250203	7/26/2017	8:05:41 AM	9	0.09	24.7	49	746	
1860 DW NW FENCE SP.txt	7/26/2017	10:35:41 AM	0115250203	7/26/2017	8:05:41 AM	10	1.18	26.3	46	746	
1860 DW NW FENCE SP.txt	7/26/2017	10:50:41 AM	0115250203	7/26/2017	8:05:41 AM	11	9.84	27.6	43	746	
1860 DW NW FENCE SP.txt	7/26/2017	11:05:41 AM	0115250203	7/26/2017	8:05:41 AM	12	1.66	28.5	41	746	
1860 DW NW FENCE SP.txt	7/26/2017	11:20:41 AM	0115250203	7/26/2017	8:05:41 AM	13	1.55	29.4	41	746	
1860 DW NW FENCE SP.txt	7/26/2017	11:35:41 AM	0115250203	7/26/2017	8:05:41 AM	14	0.4	31.2	36	746	
1860 DW NW FENCE SP.txt	7/26/2017	11:50:41 AM	0115250203	7/26/2017	8:05:41 AM	15	0.37	30.2	38	746	
1860 DW NW FENCE SP.txt	7/26/2017	12:05:41 PM	0115250203	7/26/2017	8:05:41 AM	16	3.51	28.8	41	744	
1860 DW NW FENCE SP.txt	7/26/2017	12:20:41 PM	0115250203	7/26/2017	8:05:41 AM	17	0.69	27.7	43	744	
1860 DW NW FENCE SP.txt	7/26/2017	12:35:41 PM	0115250203	7/26/2017	8:05:41 AM	18	5.14	27	45	744	
1860 DW NW FENCE SP.txt	7/26/2017	12:50:41 PM	0115250203	7/26/2017	8:05:41 AM	19	2.28	26.4	45	744	
1860 DW NW FENCE SP.txt	7/26/2017	1:05:41 PM	0115250203	7/26/2017	8:05:41 AM	20	2.63	25.8	47	744	
1860 DW NW FENCE SP.txt	7/26/2017	1:20:41 PM	0115250203	7/26/2017	8:05:41 AM	21	10.18	26	47	744	
1860 DW NW FENCE SP.txt	7/26/2017	1:35:41 PM	0115250203	7/26/2017	8:05:41 AM	22	0.96	27.2	44	744	
1860 DW NW FENCE SP.txt	7/26/2017	1:50:41 PM	0115250203	7/26/2017	8:05:41 AM	23	2.43	27.8	42	744	
1860 DW NW FENCE SP.txt	7/26/2017	2:05:41 PM	0115250203	7/26/2017	8:05:41 AM	24	1.01	28.5	42	744	
1860 DW NW FENCE SP.txt	7/26/2017	2:20:41 PM	0115250203	7/26/2017	8:05:41 AM	25	2.41	29.5	40	744	
1860 DW NW FENCE SP.txt	7/26/2017	2:35:41 PM	0115250203	7/26/2017	8:05:41 AM	26	1.77	29.1	40	744	
1860 DW NW FENCE SP.txt	7/26/2017	2:50:41 PM	0115250203	7/26/2017	8:05:41 AM	27	1.92	28.9	40	744	
1860 DW NW FENCE SP.txt	7/26/2017	3:05:41 PM	0115250203	7/26/2017	8:05:41 AM	28	2.19	29	40	744	
1860 DW NW FENCE SP.txt	7/26/2017	3:20:41 PM	0115250203	7/26/2017	8:05:41 AM	29	1.93	28.7	39	744	
1860 DW NW FENCE SP.txt	7/26/2017	3:35:41 PM	0115250203	7/26/2017	8:05:41 AM	30	2.05	28.7	39	744	
1860 DW NW FENCE SP.txt	7/26/2017	3:50:41 PM	0115250203	7/26/2017	8:05:41 AM	31	1.95	28.6	39	744	
1860 DW NW FENCE SP.txt	7/26/2017	4:05:41 PM	0115250203	7/26/2017	8:05:41 AM	32	2.05	28.8	40	742	
1860 DW NW FENCE SP.txt	7/26/2017	4:20:41 PM	0115250203	7/26/2017	8:05:41 AM	33	2.35	29.1	39	742	
1860 DW NW FENCE SP.txt	7/26/2017	4:35:41 PM	0115250203	7/26/2017	8:05:41 AM	34	2	29.4	39	742	
1860 DW NW FENCE SP.txt	7/26/2017	4:50:41 PM	0115250203	7/26/2017	8:05:41 AM	35	2.95	29.9	37	742	
1860 DW NW FENCE SP.txt	7/26/2017	5:05:41 PM	0115250203	7/26/2017	8:05:41 AM	36	10.6	29.7	38	742	
1860 DW NW FENCE SP.txt	7/26/2017	5:20:41 PM	0115250203	7/26/2017	8:05:41 AM	37	2.27	29.9	37	742	
1860 DW NW FENCE SP.txt	7/26/2017	5:35:41 PM	0115250203	7/26/2017	8:05:41 AM	38	6.47	29.9	37	742	
1860 DW NW FENCE SP.txt	7/26/2017	5:50:41 PM	0115250203	7/26/2017	8:05:41 AM	39	22.28	29.4	38	742	
1860 DW NW FENCE SP.txt	7/26/2017	6:05:41 PM	0115250203	7/26/2017	8:05:41 AM	40	14.4	28.7	40	742	
1936 DW NW CORN SP.txt	7/26/2017	8:21:06 AM	0115250202	7/26/2017	8:06:06 AM	1	2.63	17.1	69	748	
1936 DW NW CORN SP.txt	7/26/2017	8:36:06 AM	0115250202	7/26/2017	8:06:06 AM	2	0.31	17.2	69	746	
1936 DW NW CORN SP.txt	7/26/2017	8:51:06 AM	0115250202	7/26/2017	8:06:06 AM	3	0	17.6	68	746	
1936 DW NW CORN SP.txt	7/26/2017	9:06:06 AM	0115250202	7/26/2017	8:06:06 AM	4	0.05	17.9	67	746	
1936 DW NW CORN SP.txt	7/26/2017	9:21:06 AM	0115250202	7/26/2017	8:06:06 AM	5	0.18	18.2	66	746	
1936 DW NW CORN SP.txt	7/26/2017	9:36:06 AM	0115250202	7/26/2017	8:06:06 AM	6	0.17	18.4	65	746	
1936 DW NW CORN SP.txt	7/26/2017	9:51:06 AM	0115250202	7/26/2017	8:06:06 AM	7	0.8	18.9	64	746	
1936 DW NW CORN SP.txt	7/26/2017	10:06:06 AM	0115250202	7/26/2017	8:06:06 AM	8	1.71	19.6	62	746	
1936 DW NW CORN SP.txt	7/26/2017	10:21:06 AM	0115250202	7/26/2017	8:06:06 AM	9	1.37	20.6	59	746	
1936 DW NW CORN SP.txt	7/26/2017	10:36:06 AM	0115250202	7/26/2017	8:06:06 AM	10	0.69	21.4	57	746	
1936 DW NW CORN SP.txt	7/26/2017	10:51:06 AM	0115250202	7/26/2017	8:06:06 AM	11	0.95	22.5	55	746	
1936 DW NW CORN SP.txt	7/26/2017	11:06:06 AM	0115250202	7/26/2017	8:06:06 AM	12	1.2	23.1	52	746	
1936 DW NW CORN SP.txt	7/26/2017	11:21:06 AM	0115250202	7/26/2017	8:06:06 AM	13	0.87	23.4	53	746	
1936 DW NW CORN SP.txt	7/26/2017	11:36:06 AM	0115250202	7/26/2017	8:06:06 AM	14	1.58	24.6	50	746	
1936 DW NW CORN SP.txt	7/26/2017	11:51:06 AM	0115250202	7/26/2017	8:06:06 AM	15	1.24	24.9	49	746	
1936 DW NW CORN SP.txt	7/26/2017	12:06:06 PM	0115250202	7/26/2017	8:06:06 AM	16	2.03	24.5	50	746	
1936 DW NW CORN SP.txt	7/26/2017	12:21:06 PM	0115250202	7/26/2017	8:06:06 AM	17	1.4	23.8	52	746	
1936 DW NW CORN SP.txt	7/26/2017	12:36:06 PM	0115250202	7/26/2017	8:06:06 AM	18	1.8	23.7	53	746	
1936 DW NW CORN SP.txt	7/26/2017	12:51:06 PM	0115250202	7/26/2017	8:06:06 AM	19	1.93	23.6	51	746	
1936 DW NW CORN SP.txt	7/26/2017	1:06:06 PM	0115250202	7/26/2017	8:06:06 AM	20	2.83	23.3	52	746	
1936 DW NW CORN SP.txt	7/26/2017	1:21:06 PM	0115250202	7/26/2017	8:06:06 AM	21	3.05	23.5	51	746	
1936 DW NW CORN SP.txt	7/26/2017	1:36:06 PM	0115250202	7/26/2017	8:06:06 AM	22	3.61	24.3	49	746	
1936 DW NW CORN SP.txt	7/26/2017	1:51:06 PM	0115250202	7/26/2017	8:06:06 AM	23	2.66	25.1	47	746	
1936 DW NW CORN SP.txt	7/26/2017	2:06:06 PM	0115250202	7/26/2017	8:06:06 AM	24	2.67	26.3	46	746	
1936 DW NW CORN SP.txt	7/26/2017	2:21:06 PM	0115250202	7/26/2017	8:06:06 AM	25	8.9	28	44	746	
1936 DW NW CORN SP.txt	7/26/2017	2:36:06 PM	0115250202	7/26/2017	8:06:06 AM	26	3.77	28.2	42	746	
1936 DW NW CORN SP.txt	7/26/2017	2:51:06 PM	0115250202	7/26/2017	8:06:06 AM	27	3.78	27.4	43	744	
1936 DW NW CORN SP.txt	7/26/2017	3:06:06 PM	0115250202	7/26/2017	8:06:06 AM	28	3.89	27.5	43	744	
1936 DW NW CORN SP.txt	7/26/2017	3:21:06 PM	0115250202	7/26/2017	8:06:06 AM	29	5.34	26.9	43	744	
1936 DW NW CORN SP.txt	7/26/2017	3:36:06 PM	0115250202	7/26/2017	8:06:06 AM	30	5.28	26.7	44	744	
1936 DW NW CORN SP.txt	7/26/2017	3:51:06 PM	0115250202	7/26/2017	8:06:06 AM	31	4.13	26.7	43	744	
1936 DW NW CORN SP.txt	7/26/2017	4:06:06 PM	0115250202	7/26/2017	8:06:06 AM	32	4.07	26.6	44	744	
1936 DW NW CORN SP.txt	7/26/2017	4:21:06 PM	0115250202	7/26/2017	8:06:06 AM	33	4.3	26.5	44	744	
1936 DW NW CORN SP.txt	7/26/2017	4:36:06 PM	0115250202	7/26/2017	8:06:06 AM	34	3.97	26.7	44	744	
1954 UPWIND SP.txt	7/26/2017	8:18:49 AM	0115250211	7/26/2017	8:03:49 AM	1	-1.44	17.7	68	746	
1954 UPWIND SP.txt	7/26/2017	8:33:49 AM	0115250211	7/26/2017	8:03:49 AM	2	-0.2	17.8	67	746	
1954 UPWIND SP.txt	7/26/2017	8:48:49 AM	0115250211	7/26/2017	8:03:49 AM	3	-0.83	18.5	67	746	
1954 UPWIND SP.txt	7/26/2017	9:03:49 AM	0115250211	7/26/2017	8:03:49 AM	4	0.45	19.3	64	746	
1954 UPWIND SP.txt	7/26/2017	9:18:49 AM	0115250211	7/26/2017	8:03:49 AM	5	1.57	19.8	62	746	
1954 UPWIND SP.txt	7/26/2017	9:33:49 AM	0115250211	7/26/2017	8:03:49 AM	6	3.07	20.3	60	746	
1954 UPWIND SP.txt	7/26/2017	9:48:49 AM	0115250211	7/26/2017	8:03:49 AM	7	5.04	21	59	746	
1954 UPWIND SP.txt	7/26/2017	10:03:49 AM	0115250211	7/26/2017	8:03:49 AM	8	6.2	21.8	57	746	
1954 UPWIND SP.txt	7/26/2017	10:18:49 AM	0115250211	7/26/2017	8:03:49 AM	9	8.08	23.2	54	746	
1954 UPWIND SP.txt	7/26/2017	10:33:49 AM	0115250211	7/26/2017	8:03:49 AM	10	10.05	24.7	51	746	
1954 UPWIND SP.txt	7/26/2017	10:48:49 AM	0115250211	7/26/2017	8:03:49 AM	11	12.54	25.8	47	746	
1954 UPWIND SP.txt	7/26/2017	11:03:49 AM	0115250211	7/26/2017	8:03:49 AM	12	15.16	26.5	45	746	
1954 UPWIND SP.txt	7/26/2017	11:18:49 AM	0115250211	7/26/2017	8:03:49 AM	13	14.69	27.1	45	746	
1954 UPWIND SP.txt	7/26/2017	11:33:49 AM	0115250211	7/26/2017	8:03:49 AM	14	17.43	28.2	42	746	
1954 UPWIND SP.txt	7/26/2017	11:48:49 AM	0115250211	7/26/2017	8:03:49 AM	15	16.87	28.7	42	746	
1954 UPWIND SP.txt	7/26/2017	12:03:49 PM	0115250211	7/26/2017	8:03:49 AM	16	16.71	28.6	42	746	
1954 UPWIND SP.txt	7/26/2017	12:18:49 PM	0115250211	7/26/2017	8:03:49 AM	17	17.47	28.4	43	746	
1954 UPWIND SP.txt	7/26/2017	12:33:49 PM	0115250211	7/26/2017	8:03:49 AM	18	17.29	28.6	43	746	
1954 UPWIND SP.txt	7/26/2017	12:48:49 PM	0115250211	7/26/2017	8:03:49 AM	19	17.75	28.5	42	746	
1954 UPWIND SP.txt	7/26/2017	1:03:49 PM	0115250211	7/26/2017	8:03:49 AM	20	17.74	27.8	41	744	
1954 UPWIND SP.txt	7/26/2017	1:18:49 PM	0115250211	7/26/2017	8:03:49 AM	21	18.09	27.4	42	744	
1954 UPWIND SP.txt	7/26/2017	1:33:49 PM	0115250211	7/26/2017	8:03:49 AM	22	18.38	27.7	42	744	
1954 UPWIND SP.txt	7/26/2017	1:48:49 PM	0115250211	7/26/2017	8:03:49 AM	23	18.45	28.3	41	744	
1954 UPWIND SP.txt	7/26/2017	2:03:49 PM	0115250211	7/26/2017	8:03:49 AM	24	18.69	29.5	40	744	
1954 UPWIND SP.txt	7/26/2017	2:18:49 PM	0115250211	7/26/2017	8:03:49 AM	25	19.61	31	40	744	
1954 UPWIND SP.txt	7/26/2017	2:33:49 PM	0115250211	7/26/2017	8:03:49 AM	26	21.24	32.4	36	744	
1954 UPWIND SP.txt	7/26/2017	2:48:49 PM	0115250211	7/26/2017	8:03:49 AM	27	21.22	32.2	36	744	
2535 upwind sx.txt	7/26/2017	7:48:09 AM	CM15111015	7/26/2017	7:33:09 AM	1	-2.34	15.3	71	746	
2535 upwind sx.txt	7/26/2017	8:03:09 AM	CM15111015	7/26/2017	7:33:09 AM	2	-2.94	15.8	69	746	
2535 upwind sx.txt	7/26/2017	8:18:09 AM	CM15111015	7/26/2017	7:33:09 AM	3	-2.78	16.4	67	746	
2535 upwind sx.txt	7/26/2017	8:33:09 AM	CM15111015	7/26/2017	7:33:09 AM	4	-2.58	17.1	65	746	
2535 upwind sx.txt	7/26/2017	8:48:09 AM	CM15111015	7/26/2017	7:33:09 AM	5	-2.95	18	63	746	
2535 upwind sx.txt	7/26/2017	9:03:09 AM	CM15111015	7/26/2017	7:33:09 AM	6	-2.99	18.5	61	746	
2535 upwind sx.txt	7/26/2017	9:18:09 AM	CM15111015	7/26/2017	7:33:09 AM	7	-3.84	18.9	60	746	
2535 upwind sx.txt	7/26/2017	9:33:09 AM	CM15111015	7/26/2017	7:33:09 AM	8	-3.86	19.2	59	746	
2535 upwind sx.txt	7/26/2017	9:48:09 AM	CM15111015	7/26/2017	7:33:09 AM	9	-3.44	20	57	746	
2535 upwind sx.txt	7/26/2017	10:03:09 AM	CM15111015	7/26/2017	7:33:09 AM	10	-3.89	20.5	55	746	
2535 upwind sx.txt	7/26/2017	10:18:09 AM	CM15111015	7/26/2017	7:33:09 AM	11	-3.39	21.3	53	746	
2535 upwind sx.txt	7/26/2017	10:33:09 AM	CM15111015	7/26/2017	7:33:09 AM	12	-4.1	22.4	50	746	
2535 upwind sx.txt	7/26/2017	10:48:09 AM	CM15111015	7/26/2017	7:33:09 AM	13	-4.21	23.7	47	746	
2535 upwind sx.txt	7/26/2017	11:03:09 AM	CM15111015	7/26/2017	7:33:09 AM	14	-4.78	24.2	45	746	
2535 upwind sx.txt	7/26/2017	11:18:09 AM	CM15111015	7/26/2017	7:33:09 AM	15	-1.57	24.6	45	746	
2535 upwind sx.txt	7/26/2017	11:33:09 AM	CM15111015	7/26/2017	7:33:09 AM	16	-4.38	25.8	42	746	
2535 upwind sx.txt	7/26/2017	11:48:09 AM	CM15111015	7/26/2017	7:33:09 AM	17	-0.35	26.5	41	746	
2535 upwind sx.txt	7/26/2017	12:03:09 PM	CM15111015	7/26/2017	7:33:09 AM	18	-3.9	25.8	43	746	
2535 upwind sx.txt	7/26/2017	12:18:09 PM	CM15111015	7/26/2017	7:33:09 AM	19	-4.44	25.3	44	746	
2535 upwind sx.txt	7/26/2017	12:33:09 PM	CM15111015	7/26/2017	7:33:09 AM	20	-3.93	25.9	44	746	

Summary of CAMP Monitoring

Beech and Bonaparte

Former Sperry Remington Site - North Portion
Elmira, New York

Unit Location	Record Date	Record Time	Unit Serial Number	Start Date	Start Time	Record #	Dust Concentration in µg/m^3	Temp	RHumidity	AtmoPressure in mm/Hg	Notes
2535 upwind sx.txt	7/26/2017	12:48:09 PM	CM15111015	7/26/2017	7:33:09 AM	21	-1.76	26	42	746	
2535 upwind sx.txt	7/26/2017	1:03:09 PM	CM15111015	7/26/2017	7:33:09 AM	22	-3.53	25.5	42	746	
2535 upwind sx.txt	7/26/2017	1:18:09 PM	CM15111015	7/26/2017	7:33:09 AM	23	3.02	25.3	42	746	
2535 upwind sx.txt	7/26/2017	1:33:09 PM	CM15111015	7/26/2017	7:33:09 AM	24	27.39	25.7	42	746	
2535 upwind sx.txt	7/26/2017	1:48:09 PM	CM15111015	7/26/2017	7:33:09 AM	25	-0.66	26.5	41	746	
2535 upwind sx.txt	7/26/2017	2:03:09 PM	CM15111015	7/26/2017	7:33:09 AM	26	-3.87	27.7	38	746	
2535 upwind sx.txt	7/26/2017	2:18:09 PM	CM15111015	7/26/2017	7:33:09 AM	27	-1.12	29.6	35	746	
2535 upwind sx.txt	7/26/2017	2:33:09 PM	CM15111015	7/26/2017	7:33:09 AM	28	-1.47	30	34	746	
2535 upwind sx.txt	7/26/2017	2:48:09 PM	CM15111015	7/26/2017	7:33:09 AM	29	-2.29	29.2	35	744	
2535 upwind sx.txt	7/26/2017	3:03:09 PM	CM15111015	7/26/2017	7:33:09 AM	30	-1.98	29.7	34	744	
2535 upwind sx.txt	7/26/2017	3:18:09 PM	CM15111015	7/26/2017	7:33:09 AM	31	-2.01	29.7	34	744	
2535 upwind sx.txt	7/26/2017	3:33:09 PM	CM15111015	7/26/2017	7:33:09 AM	32	-2.01	29.7	33	744	
2535 upwind sx.txt	7/26/2017	3:48:09 PM	CM15111015	7/26/2017	7:33:09 AM	33	0.76	29.7	34	744	
2980 DW NE CORN SP.txt	7/26/2017	8:17:11 AM	CM15111014	7/26/2017	8:02:11 AM	1	0.26	18.7	66	748	
2980 DW NE CORN SP.txt	7/26/2017	8:32:11 AM	CM15111014	7/26/2017	8:02:11 AM	2	-0.02	18.9	66	748	
2980 DW NE CORN SP.txt	7/26/2017	8:47:11 AM	CM15111014	7/26/2017	8:02:11 AM	3	-0.07	19.1	66	748	
2980 DW NE CORN SP.txt	7/26/2017	9:02:11 AM	CM15111014	7/26/2017	8:02:11 AM	4	-0.26	19.4	64	748	
2980 DW NE CORN SP.txt	7/26/2017	9:17:11 AM	CM15111014	7/26/2017	8:02:11 AM	5	-0.3	19.7	64	748	
2980 DW NE CORN SP.txt	7/26/2017	9:32:11 AM	CM15111014	7/26/2017	8:02:11 AM	6	-0.27	19.9	62	748	
2980 DW NE CORN SP.txt	7/26/2017	9:47:11 AM	CM15111014	7/26/2017	8:02:11 AM	7	-0.05	20.3	62	748	
2980 DW NE CORN SP.txt	7/26/2017	10:02:11 AM	CM15111014	7/26/2017	8:02:11 AM	8	0.39	20.9	60	748	
2980 DW NE CORN SP.txt	7/26/2017	10:17:11 AM	CM15111014	7/26/2017	8:02:11 AM	9	-0.17	22	58	746	
2980 DW NE CORN SP.txt	7/26/2017	10:32:11 AM	CM15111014	7/26/2017	8:02:11 AM	10	0.23	22.7	56	746	
2980 DW NE CORN SP.txt	7/26/2017	10:47:11 AM	CM15111014	7/26/2017	8:02:11 AM	11	-0.17	23.5	54	746	
2980 DW NE CORN SP.txt	7/26/2017	11:02:11 AM	CM15111014	7/26/2017	8:02:11 AM	12	0.18	24.4	51	746	
2980 DW NE CORN SP.txt	7/26/2017	11:17:11 AM	CM15111014	7/26/2017	8:02:11 AM	13	-0.05	24.7	51	746	
2980 DW NE CORN SP.txt	7/26/2017	11:32:11 AM	CM15111014	7/26/2017	8:02:11 AM	14	2.17	25.6	49	746	
2980 DW NE CORN SP.txt	7/26/2017	11:47:11 AM	CM15111014	7/26/2017	8:02:11 AM	15	0.09	26.4	47	746	
2980 DW NE CORN SP.txt	7/26/2017	12:02:11 PM	CM15111014	7/26/2017	8:02:11 AM	16	1.29	26.4	47	746	
2980 DW NE CORN SP.txt	7/26/2017	12:17:11 PM	CM15111014	7/26/2017	8:02:11 AM	17	0.49	25.5	49	746	
2980 DW NE CORN SP.txt	7/26/2017	12:32:11 PM	CM15111014	7/26/2017	8:02:11 AM	18	0.61	25.6	50	746	
2980 DW NE CORN SP.txt	7/26/2017	12:47:11 PM	CM15111014	7/26/2017	8:02:11 AM	19	0.63	25.5	49	746	
2980 DW NE CORN SP.txt	7/26/2017	1:02:11 PM	CM15111014	7/26/2017	8:02:11 AM	20	1.28	24.9	49	746	
2980 DW NE CORN SP.txt	7/26/2017	1:17:11 PM	CM15111014	7/26/2017	8:02:11 AM	21	2.49	24.9	49	746	
2980 DW NE CORN SP.txt	7/26/2017	1:32:11 PM	CM15111014	7/26/2017	8:02:11 AM	22	1.2	25.9	47	746	
2980 DW NE CORN SP.txt	7/26/2017	1:47:11 PM	CM15111014	7/26/2017	8:02:11 AM	23	1.32	26.9	45	746	
2980 DW NE CORN SP.txt	7/26/2017	2:02:11 PM	CM15111014	7/26/2017	8:02:11 AM	24	3.86	28.1	43	746	
2980 DW NE CORN SP.txt	7/26/2017	2:17:11 PM	CM15111014	7/26/2017	8:02:11 AM	25	2.75	30.3	40	746	
2980 DW NE CORN SP.txt	7/26/2017	2:32:11 PM	CM15111014	7/26/2017	8:02:11 AM	26	8.59	31.3	37	746	
2980 DW NE CORN SP.txt	7/26/2017	2:47:11 PM	CM15111014	7/26/2017	8:02:11 AM	27	2.57	30.3	37	746	
2980 DW NE CORN SP.txt	7/26/2017	3:02:11 PM	CM15111014	7/26/2017	8:02:11 AM	28	3.3	30.2	38	746	
2980 DW NE CORN SP.txt	7/26/2017	3:17:11 PM	CM15111014	7/26/2017	8:02:11 AM	29	3.13	29.8	37	744	
2980 DW NE CORN SP.txt	7/26/2017	3:32:11 PM	CM15111014	7/26/2017	8:02:11 AM	30	5.46	29.1	39	744	
2980 DW NE CORN SP.txt	7/26/2017	3:47:11 PM	CM15111014	7/26/2017	8:02:11 AM	31	8.82	29.3	39	744	
2980 DW NE CORN SP.txt	7/26/2017	4:02:11 PM	CM15111014	7/26/2017	8:02:11 AM	32	3.15	28.9	40	744	
2980 DW NE CORN SP.txt	7/26/2017	4:17:11 PM	CM15111014	7/26/2017	8:02:11 AM	33	3.22	28.8	39	744	
2980 DW NE CORN SP.txt	7/26/2017	4:32:11 PM	CM15111014	7/26/2017	8:02:11 AM	34	4.83	28.6	40	744	
1860 DW NW FENCE SP.txt	7/27/2017	4:34:01 PM	0115250203	7/27/2017	4:19:01 PM	1	3.78	33.4	40	738	
1860 DW NW FENCE SP.txt	7/27/2017	4:49:01 PM	0115250203	7/27/2017	4:19:01 PM	2	1.72	31.7	41	738	
1860 DW NW FENCE SP.txt	7/27/2017	5:04:01 PM	0115250203	7/27/2017	4:19:01 PM	3	2.52	30.3	43	738	
1860 DW NW FENCE SP.txt	7/27/2017	5:19:01 PM	0115250203	7/27/2017	4:19:01 PM	4	4.22	29.3	47	738	
1860 DW NW FENCE SP.txt	7/27/2017	5:34:01 PM	0115250203	7/27/2017	4:19:01 PM	5	6.48	28.4	50	738	
1954 UPWIND SP.txt	7/27/2017	11:03:54 AM	0115250211	7/27/2017	10:48:54 AM	1	10	21.9	70	740	
1954 UPWIND SP.txt	7/27/2017	11:18:54 AM	0115250211	7/27/2017	10:48:54 AM	2	-2.14	22.5	67	740	
1954 UPWIND SP.txt	7/27/2017	11:33:54 AM	0115250211	7/27/2017	10:48:54 AM	3	-2.4	23.4	67	738	
DW N CENTER 1429 SX.txt	7/27/2017	7:40:32 AM	0115250009	7/27/2017	7:25:32 AM	1	-6.03	17.4	75	740	
DW N CENTER 1429 SX.txt	7/27/2017	7:55:32 AM	0115250009	7/27/2017	7:25:32 AM	2	-5.07	17.4	78	740	
DW N CENTER 1429 SX.txt	7/27/2017	8:10:32 AM	0115250009	7/27/2017	7:25:32 AM	3	-5.34	17.7	78	740	
DW N CENTER 1429 SX.txt	7/27/2017	8:25:32 AM	0115250009	7/27/2017	7:25:32 AM	4	-5.35	18.1	78	740	
DW N CENTER 1429 SX.txt	7/27/2017	8:40:32 AM	0115250009	7/27/2017	7:25:32 AM	5	9.02	18.5	77	740	
DW N CENTER 1429 SX.txt	7/27/2017	8:55:32 AM	0115250009	7/27/2017	7:25:32 AM	6	3.77	18.5	78	740	
DW N CENTER 1429 SX.txt	7/27/2017	9:10:32 AM	0115250009	7/27/2017	7:25:32 AM	7	-5.61	18.5	78	740	
DW N CENTER 1429 SX.txt	7/27/2017	9:25:32 AM	0115250009	7/27/2017	7:25:32 AM	8	-5.07	18.8	78	740	
DW N CENTER 1429 SX.txt	7/27/2017	9:40:32 AM	0115250009	7/27/2017	7:25:32 AM	9	-4.8	19.1	78	740	
DW N CENTER 1429 SX.txt	7/27/2017	9:55:32 AM	0115250009	7/27/2017	7:25:32 AM	10	-3.9	19.3	77	740	
DW N CENTER 1429 SX.txt	7/27/2017	10:10:32 AM	0115250009	7/27/2017	7:25:32 AM	11	-3.57	19.7	76	740	
DW N CENTER 1429 SX.txt	7/27/2017	10:25:32 AM	0115250009	7/27/2017	7:25:32 AM	12	-6.8	20.4	70	740	
DW N CENTER 1429 SX.txt	7/27/2017	10:40:32 AM	0115250009	7/27/2017	7:25:32 AM	13	-6.2	21.2	68	740	
DW N CENTER 1429 SX.txt	7/27/2017	10:55:32 AM	0115250009	7/27/2017	7:25:32 AM	14	-4.84	22.1	67	740	
DW N CENTER 1429 SX.txt	7/27/2017	11:10:32 AM	0115250009	7/27/2017	7:25:32 AM	15	-5.35	22.4	65	740	
DW N CENTER 1429 SX.txt	7/27/2017	11:25:32 AM	0115250009	7/27/2017	7:25:32 AM	16	-5.16	22.5	65	740	
DW N CENTER 1429 SX.txt	7/27/2017	11:40:32 AM	0115250009	7/27/2017	7:25:32 AM	17	-2.62	22.7	66	740	
DW N CENTER 1429 SX.txt	7/27/2017	11:55:32 AM	0115250009	7/27/2017	7:25:32 AM	18	-3.54	23	72	740	
DW N CENTER 1429 SX.txt	7/27/2017	12:10:32 PM	0115250009	7/27/2017	7:25:32 AM	19	-5.29	23.9	66	740	
DW N CENTER 1429 SX.txt	7/27/2017	12:25:32 PM	0115250009	7/27/2017	7:25:32 AM	20	-6.2	24.6	62	740	
DW N CENTER 1429 SX.txt	7/27/2017	12:40:32 PM	0115250009	7/27/2017	7:25:32 AM	21	-5.87	24.9	61	740	
DW N CENTER 1429 SX.txt	7/27/2017	12:55:32 PM	0115250009	7/27/2017	7:25:32 AM	22	-5.11	25.4	60	740	
DW N CENTER 1429 SX.txt	7/27/2017	1:10:32 PM	0115250009	7/27/2017	7:25:32 AM	23	1.5	26.4	57	740	
DW N CENTER 1429 SX.txt	7/27/2017	1:25:32 PM	0115250009	7/27/2017	7:25:32 AM	24	-3.63	27.8	52	740	
DW N CENTER 1429 SX.txt	7/27/2017	1:40:32 PM	0115250009	7/27/2017	7:25:32 AM	25	0.37	28.9	49	740	
DW N CENTER 1429 SX.txt	7/27/2017	1:55:32 PM	0115250009	7/27/2017	7:25:32 AM	26	-5.98	30.3	46	740	
DW N CENTER 1429 SX.txt	7/27/2017	2:10:32 PM	0115250009	7/27/2017	7:25:32 AM	27	-2.69	31.5	42	740	
DW N CENTER 1429 SX.txt	7/27/2017	2:25:32 PM	0115250009	7/27/2017	7:25:32 AM	28	-7.72	32.6	37	740	
DW N CENTER 1429 SX.txt	7/27/2017	2:40:32 PM	0115250009	7/27/2017	7:25:32 AM	29	-3.53	31.9	39	740	
DW N CENTER 1429 SX.txt	7/27/2017	2:55:32 PM	0115250009	7/27/2017	7:25:32 AM	30	-3.17	30.8	44	740	
DW N CENTER 1429 SX.txt	7/27/2017	3:10:32 PM	0115250009	7/27/2017	7:25:32 AM	31	-8.22	31.1	42	740	
DW N CENTER 1429 SX.txt	7/27/2017	3:25:32 PM	0115250009	7/27/2017	7:25:32 AM	32	-9.36	33	37	740	
DW N CENTER 1429 SX.txt	7/27/2017	3:40:32 PM	0115250009	7/27/2017	7:25:32 AM	33	-5.87	33.3	36	738	
DW NE CORN 1428 SX.txt	7/27/2017	7:41:51 AM	0115250007	7/27/2017	7:26:51 AM	1	-3.86	18	75	740	
DW NE CORN 1428 SX.txt	7/27/2017	7:56:51 AM	0115250007	7/27/2017	7:26:51 AM	2	-3.21	18	77	740	
DW NE CORN 1428 SX.txt	7/27/2017	8:11:51 AM	0115250007	7/27/2017	7:26:51 AM	3	-3.48	18.2	78	740	
DW NE CORN 1428 SX.txt	7/27/2017	8:26:51 AM	0115250007	7/27/2017	7:26:51 AM	4	-4	18.9	77	740	
DW NE CORN 1428 SX.txt	7/27/2017	8:41:51 AM	0115250007	7/27/2017	7:26:51 AM	5	-4.44	19.5	75	740	
DW NE CORN 1428 SX.txt	7/27/2017	8:56:51 AM	0115250007	7/27/2017	7:26:51 AM	6	-4.47	19.7	74	740	
DW NE CORN 1428 SX.txt	7/27/2017	9:11:51 AM	0115250007	7/27/2017	7:26:51 AM	7	-4.38	19.8	75	740	
DW NE CORN 1428 SX.txt	7/27/2017	9:26:51 AM	0115250007	7/27/2017	7:26:51 AM	8	-3.71	20.1	74	740	
DW NE CORN 1428 SX.txt	7/27/2017	9:41:51 AM	0115250007	7/27/2017	7:26:51 AM	9	-3.99	20.4	74	740	
DW NE CORN 1428 SX.txt	7/27/2017	9:56:51 AM	0115250007	7/27/2017	7:26:51 AM	10	-2.85	20.4	74	740	
DW NE CORN 1428 SX.txt	7/27/2017	10:11:51 AM	0115250007	7/27/2017	7:26:51 AM	11	-3.09	20.6	74	740	
DW NE CORN 1428 SX.txt	7/27/2017	10:26:51 AM	0115250007	7/27/2017	7:26:51 AM	12	-4.81	21.6	71	740	
DW NE CORN 1428 SX.txt	7/27/2017	10:41:51 AM	0115250007	7/27/2017	7:26:51 AM	13	-4.49	22.7	67	740	
DW NE CORN 1428 SX.txt	7/27/2017	10:56:51 AM	0115250007	7/27/2017	7:26:51 AM	14	-4.5	24	64	740	
DW NE CORN 1428 SX.txt	7/27/2017	11:11:51 AM	0115250007	7/27/2017	7:26:51 AM	15	-4.24	24.5	61	740	
DW NE CORN 1428 SX.txt	7/27/2017	11:26:51 AM	0115250007	7/27/2017	7:26:51 AM	16	-3.98	24.6	61	740	
DW NE CORN 1428 SX.txt	7/27/2017	11:41:51 AM	0115250007	7/27/2017	7:26:51 AM	17	-3.13	24.8	61	740	
DW NE CORN 1428 SX.txt	7/27/2017	11:56:51 AM	0115250007	7/27/2017	7:26:51 AM	18	-4	25.2	63	740	
DW NE CORN 1428 SX.txt	7/27/2017	12:11:51 PM	0115250007	7/27/2017	7:26:51 AM	19	-4.25	26	60	740	
DW NE CORN 1428 SX.txt	7/27/2017	12:26:51 PM	0115250007	7/27/2017	7:26:51 AM	20	-4.09	26.8	57	740	
DW NE CORN 1428 SX.txt	7/27/2017	12:41:51 PM	0115250007	7/27/2017	7:26:51 AM	21	-4.03	27.2	56	740	
DW NE CORN 1428 SX.txt	7/27/2017	12:56:51 PM	0115250007	7/27/2017	7:26:51 AM	22	-4.27	27.9	55	740	
DW NE CORN 1428 SX.txt	7/27/2017	1:11:51 PM	0115250007	7/27/2017	7:26:51 AM	23	-3.5	29	52	740	
DW NE CORN 1428 SX.txt	7/27/2017	1:26:51 PM	0115250007	7/27/2017	7:26:51 AM	24	-3.51	30.4	49	740	
DW NE CORN 1428 SX.txt	7/27/2017	1:41:51 PM	0115250007	7/27/2017	7:26:51 AM	25	-5.28	31.6	44	740	
DW NE CORN 1428 SX.txt	7/27/2017	1:56:51 PM	0115250007	7/27/2017	7:26:51 AM	26	-4.62	33.2	42	740	
DW NE CORN 1428 SX.txt	7/27/2017	2:11:51 PM	0115250007	7/27/2017	7:26:51 AM	27	-5.43	34.2	39	740	
DW NE CORN 1428 SX.txt	7/27/2017	2:26:51 PM	0115250007	7/27/2017	7:26:51 AM	28	-6.58	34.4	36	740	
DW NE CORN 1428 SX.txt	7/27/2017	2:41:51 PM	0115250007	7/27/2017	7:26:51 AM	29	-6.62	33.5	38	740	
DW NE CORN 1428 SX.txt	7/27/2017	2:56:51 PM	0115250007	7/27/2017	7:26:51 AM	30	-6.9	32.2	41	740	
DW NE CORN 1428 SX.txt	7/27/2017	3:11:51 PM	0115250007	7/27/2017	7:26:51 AM	31	-7.11	32.3	41	740	
DW NE CORN 1428 SX.txt	7/27/2017	3:26:51 PM	0115250007	7/27/2017	7:26:51 AM	32	-6.95	34.3	38	740	
DW NE CORN 1428 SX.txt	7/27/2017	3:41:51 PM	0115250007	7/27/2017	7:26:51 AM	33	-5.82	35.7	35	740	
DW NE CORN 1428 SX.txt	7/27/2017	3:56:51 PM	0115250007	7/27/2017	7:26:51 AM	34	-6.79	35.5	35	740	
DW NE CORN 1428 SX.txt	7/27/2017	4:11:51 PM	0115250007	7/27/2017	7:26:51 AM	35	-6.05	35.2	37	740	
DW NE CORN 1428 SX.txt	7/27/2017	4:26:51 PM	0115250007	7/27/2017	7:26:51 AM	36	-6.2	35.6	35	740	
DW NE CORN 1428 SX.txt	7/27/2017	4:41:51 PM	0115250007	7/27/2017	7:26:51 AM	37	-5.12	35.6	36	740	

Summary of CAMP Monitoring

Beech and Bonaparte

Former Sperry Remington Site - North Portion
Elmira, New York

Unit Location	Record Date	Record Time	Unit Serial Number	Start Date	Start Time	Record #	Dust Concentration in µg/m^3	Temp	RHumidity	AtmoPressure in mm/Hg	Notes
DW NE CORN 1428 SX.txt	7/27/2017	4:56:51 PM	0115250007	7/27/2017	7:26:51 AM	38	0.19	34.6	37	740	
DW NE CORN 1428 SX.txt	7/27/2017	5:11:51 PM	0115250007	7/27/2017	7:26:51 AM	39	-3.71	33.2	38	738	
DW NE CORN 1428 SX.txt	7/27/2017	5:26:51 PM	0115250007	7/27/2017	7:26:51 AM	40	-2	32	42	738	
DW NE CORN 2980 SP.txt	7/27/2017	10:59:34 AM	CM15111014	7/27/2017	10:44:34 AM	1	26.63	22.7	72	740	
DW NE CORN 2980 SP.txt	7/27/2017	11:14:34 AM	CM15111014	7/27/2017	10:44:34 AM	2	1.79	23.8	65	740	
DW NE CORN 2980 SP.txt	7/27/2017	11:29:34 AM	CM15111014	7/27/2017	10:44:34 AM	3	0.76	24.3	65	740	
DW NE FENCE 1422 SP.txt	7/27/2017	4:32:01 PM	0115249980	7/27/2017	4:17:01 PM	1	34.75	29.9	48	738	
DW NE FENCE 1422 SP.txt	7/27/2017	4:47:01 PM	0115249980	7/27/2017	4:17:01 PM	2	35.98	30.9	44	738	
DW NE FENCE 1422 SP.txt	7/27/2017	5:02:01 PM	0115249980	7/27/2017	4:17:01 PM	3	27.45	30.4	44	738	
DW NE FENCE 1422 SP.txt	7/27/2017	5:17:01 PM	0115249980	7/27/2017	4:17:01 PM	4	21.72	29.5	47	738	
DW NE FENCE 1422 SP.txt	7/27/2017	5:32:01 PM	0115249980	7/27/2017	4:17:01 PM	5	31.07	28.6	50	738	
DW NW CORN 1421 SX.txt	7/27/2017	7:40:03 AM	0115249975	7/27/2017	7:25:03 AM	1	-6.06	18.2	73	740	
DW NW CORN 1421 SX.txt	7/27/2017	7:55:03 AM	0115249975	7/27/2017	7:25:03 AM	2	-4.91	18.5	74	740	
DW NW CORN 1421 SX.txt	7/27/2017	8:10:03 AM	0115249975	7/27/2017	7:25:03 AM	3	-5.93	19.3	72	740	
DW NW CORN 1421 SX.txt	7/27/2017	8:25:03 AM	0115249975	7/27/2017	7:25:03 AM	4	-3.66	20	70	740	
DW NW CORN 1421 SX.txt	7/27/2017	8:40:03 AM	0115249975	7/27/2017	7:25:03 AM	5	39.19	20.2	69	740	
DW NW CORN 1421 SX.txt	7/27/2017	8:55:03 AM	0115249975	7/27/2017	7:25:03 AM	6	25.87	20	71	740	
DW NW CORN 1421 SX.txt	7/27/2017	9:10:03 AM	0115249975	7/27/2017	7:25:03 AM	7	-5.57	19.9	72	740	
DW NW CORN 1421 SX.txt	7/27/2017	9:25:03 AM	0115249975	7/27/2017	7:25:03 AM	8	-4.73	20	72	740	
DW NW CORN 1421 SX.txt	7/27/2017	9:40:03 AM	0115249975	7/27/2017	7:25:03 AM	9	-5.33	20.3	72	740	
DW NW CORN 1421 SX.txt	7/27/2017	9:55:03 AM	0115249975	7/27/2017	7:25:03 AM	10	-3.78	20.6	73	740	
DW NW CORN 1421 SX.txt	7/27/2017	10:10:03 AM	0115249975	7/27/2017	7:25:03 AM	11	-3.82	21.1	70	740	
DW NW CORN 1421 SX.txt	7/27/2017	10:25:03 AM	0115249975	7/27/2017	7:25:03 AM	12	-6.32	21.6	68	740	
DW NW CORN 1421 SX.txt	7/27/2017	10:40:03 AM	0115249975	7/27/2017	7:25:03 AM	13	-5.74	22.3	65	740	
DW NW CORN 1421 SX.txt	7/27/2017	10:55:03 AM	0115249975	7/27/2017	7:25:03 AM	14	-1.93	23.2	63	740	
DW NW CORN 1421 SX.txt	7/27/2017	11:10:03 AM	0115249975	7/27/2017	7:25:03 AM	15	-4.75	24	59	740	
DW NW CORN 1421 SX.txt	7/27/2017	11:25:03 AM	0115249975	7/27/2017	7:25:03 AM	16	-4.91	24	59	740	
DW NW CORN 1421 SX.txt	7/27/2017	11:40:03 AM	0115249975	7/27/2017	7:25:03 AM	17	-0.7	23.8	60	738	
DW NW CORN 1421 SX.txt	7/27/2017	11:55:03 AM	0115249975	7/27/2017	7:25:03 AM	18	-0.2	23.9	68	740	
DW NW CORN 1421 SX.txt	7/27/2017	12:10:03 PM	0115249975	7/27/2017	7:25:03 AM	19	0.67	24.9	61	740	
DW NW CORN 1421 SX.txt	7/27/2017	12:25:03 PM	0115249975	7/27/2017	7:25:03 AM	20	-4.9	25.5	57	740	
DW NW CORN 1421 SX.txt	7/27/2017	12:40:03 PM	0115249975	7/27/2017	7:25:03 AM	21	-5.03	26	55	738	
DW NW CORN 1421 SX.txt	7/27/2017	12:55:03 PM	0115249975	7/27/2017	7:25:03 AM	22	-4.41	26.1	55	738	
DW NW CORN 1421 SX.txt	7/27/2017	1:10:03 PM	0115249975	7/27/2017	7:25:03 AM	23	5.92	27	52	738	
DW NW CORN 1421 SX.txt	7/27/2017	1:25:03 PM	0115249975	7/27/2017	7:25:03 AM	24	-2.36	28.3	49	738	
DW NW CORN 1421 SX.txt	7/27/2017	1:40:03 PM	0115249975	7/27/2017	7:25:03 AM	25	10.24	29.6	44	740	
DW NW CORN 1421 SX.txt	7/27/2017	1:55:03 PM	0115249975	7/27/2017	7:25:03 AM	26	-3.09	30.6	42	738	
DW NW CORN 1421 SX.txt	7/27/2017	2:10:03 PM	0115249975	7/27/2017	7:25:03 AM	27	-1.73	31.4	39	738	
DW NW CORN 1421 SX.txt	7/27/2017	2:25:03 PM	0115249975	7/27/2017	7:25:03 AM	28	-2.11	31.5	37	738	
DW NW CORN 1421 SX.txt	7/27/2017	2:40:03 PM	0115249975	7/27/2017	7:25:03 AM	29	11.02	31	38	738	
DW NW CORN 1421 SX.txt	7/27/2017	2:55:03 PM	0115249975	7/27/2017	7:25:03 AM	30	0.99	30.2	41	738	
DW NW CORN 1421 SX.txt	7/27/2017	3:10:03 PM	0115249975	7/27/2017	7:25:03 AM	31	-6.59	30	41	738	
DW NW CORN 1421 SX.txt	7/27/2017	3:25:03 PM	0115249975	7/27/2017	7:25:03 AM	32	-6.52	30.9	39	738	
DW NW CORN 1421 SX.txt	7/27/2017	3:40:03 PM	0115249975	7/27/2017	7:25:03 AM	33	-2.96	30.9	38	738	
DW NW CORN 1936 SP.txt	7/27/2017	10:58:40 AM	0115250202	7/27/2017	10:43:40 AM	1	7.18	21	73	740	
DW NW CORN 1936 SP.txt	7/27/2017	11:13:40 AM	0115250202	7/27/2017	10:43:40 AM	2	1.03	22.1	68	740	
DW NW CORN 1936 SP.txt	7/27/2017	11:28:40 AM	0115250202	7/27/2017	10:43:40 AM	3	1.42	22.7	67	740	
DW NW FENCE 0818 SX.txt	7/27/2017	7:41:20 AM	0115249311	7/27/2017	7:26:20 AM	1	-8.69	19	71	740	
DW NW FENCE 0818 SX.txt	7/27/2017	7:56:20 AM	0115249311	7/27/2017	7:26:20 AM	2	-9.46	19.2	72	740	
DW NW FENCE 0818 SX.txt	7/27/2017	8:11:20 AM	0115249311	7/27/2017	7:26:20 AM	3	-10.02	19.7	71	740	
DW NW FENCE 0818 SX.txt	7/27/2017	8:26:20 AM	0115249311	7/27/2017	7:26:20 AM	4	-8.79	20.4	70	740	
DW NW FENCE 0818 SX.txt	7/27/2017	8:41:20 AM	0115249311	7/27/2017	7:26:20 AM	5	17.58	20.7	69	740	
DW NW FENCE 0818 SX.txt	7/27/2017	8:56:20 AM	0115249311	7/27/2017	7:26:20 AM	6	-5.8	20.6	70	740	
DW NW FENCE 0818 SX.txt	7/27/2017	9:11:20 AM	0115249311	7/27/2017	7:26:20 AM	7	-3.16	20.8	70	740	
DW NW FENCE 0818 SX.txt	7/27/2017	9:26:20 AM	0115249311	7/27/2017	7:26:20 AM	8	-8.91	21	71	740	
DW NW FENCE 0818 SX.txt	7/27/2017	9:41:20 AM	0115249311	7/27/2017	7:26:20 AM	9	-8.36	21.4	70	740	
DW NW FENCE 0818 SX.txt	7/27/2017	9:56:20 AM	0115249311	7/27/2017	7:26:20 AM	10	-8.45	21.7	70	740	
DW NW FENCE 0818 SX.txt	7/27/2017	10:11:20 AM	0115249311	7/27/2017	7:26:20 AM	11	-8.81	21.9	68	740	
DW NW FENCE 0818 SX.txt	7/27/2017	10:26:20 AM	0115249311	7/27/2017	7:26:20 AM	12	-9.44	22.6	67	740	
DW NW FENCE 0818 SX.txt	7/27/2017	10:41:20 AM	0115249311	7/27/2017	7:26:20 AM	13	-7.39	23.3	65	740	
DW NW FENCE 0818 SX.txt	7/27/2017	10:56:20 AM	0115249311	7/27/2017	7:26:20 AM	14	-1.77	24.2	62	740	
DW NW FENCE 0818 SX.txt	7/27/2017	11:11:20 AM	0115249311	7/27/2017	7:26:20 AM	15	-5.61	25	59	740	
DW NW FENCE 0818 SX.txt	7/27/2017	11:26:20 AM	0115249311	7/27/2017	7:26:20 AM	16	8.46	25	59	740	
DW NW FENCE 0818 SX.txt	7/27/2017	11:41:20 AM	0115249311	7/27/2017	7:26:20 AM	17	0.51	24.9	61	738	
DW NW FENCE 0818 SX.txt	7/27/2017	11:56:20 AM	0115249311	7/27/2017	7:26:20 AM	18	-5.96	25	63	740	
DW NW FENCE 0818 SX.txt	7/27/2017	12:11:20 PM	0115249311	7/27/2017	7:26:20 AM	19	-6.73	25.9	59	740	
DW NW FENCE 0818 SX.txt	7/27/2017	12:26:20 PM	0115249311	7/27/2017	7:26:20 AM	20	-6.67	26.7	57	740	
DW NW FENCE 0818 SX.txt	7/27/2017	12:41:20 PM	0115249311	7/27/2017	7:26:20 AM	21	-6.23	27	56	740	
DW NW FENCE 0818 SX.txt	7/27/2017	12:56:20 PM	0115249311	7/27/2017	7:26:20 AM	22	-2.93	27.2	56	738	
DW NW FENCE 0818 SX.txt	7/27/2017	1:11:20 PM	0115249311	7/27/2017	7:26:20 AM	23	-4.43	28	53	740	
DW NW FENCE 0818 SX.txt	7/27/2017	1:26:20 PM	0115249311	7/27/2017	7:26:20 AM	24	1.03	29.9	48	740	
DW NW FENCE 0818 SX.txt	7/27/2017	1:41:20 PM	0115249311	7/27/2017	7:26:20 AM	25	-2.62	31.7	44	740	
DW NW FENCE 0818 SX.txt	7/27/2017	1:56:20 PM	0115249311	7/27/2017	7:26:20 AM	26	-3.77	32.8	41	740	
DW NW FENCE 0818 SX.txt	7/27/2017	2:11:20 PM	0115249311	7/27/2017	7:26:20 AM	27	-3.86	32.9	38	738	
DW NW FENCE 0818 SX.txt	7/27/2017	2:26:20 PM	0115249311	7/27/2017	7:26:20 AM	28	-3.4	32.5	38	738	
DW NW FENCE 0818 SX.txt	7/27/2017	2:41:20 PM	0115249311	7/27/2017	7:26:20 AM	29	-5.1	31.4	41	738	
DW NW FENCE 0818 SX.txt	7/27/2017	2:56:20 PM	0115249311	7/27/2017	7:26:20 AM	30	-5.22	30.5	43	738	
DW NW FENCE 0818 SX.txt	7/27/2017	3:11:20 PM	0115249311	7/27/2017	7:26:20 AM	31	-5.66	30.1	43	738	
DW NW FENCE 0818 SX.txt	7/27/2017	3:26:20 PM	0115249311	7/27/2017	7:26:20 AM	32	-1.1	30.9	42	738	
DW NW FENCE 0818 SX.txt	7/27/2017	3:41:20 PM	0115249311	7/27/2017	7:26:20 AM	33	2.17	31.5	41	738	
DW NW FENCE 0818 SX.txt	7/27/2017	3:56:20 PM	0115249311	7/27/2017	7:26:20 AM	34	22.45	31.3	41	738	
DW NW FENCE 0818 SX.txt	7/27/2017	4:11:20 PM	0115249311	7/27/2017	7:26:20 AM	35	20.91	30.5	43	738	
DW NW FENCE 0818 SX.txt	7/27/2017	4:26:20 PM	0115249311	7/27/2017	7:26:20 AM	36	46.93	30	43	738	
DW NW FENCE 0818 SX.txt	7/27/2017	4:41:20 PM	0115249311	7/27/2017	7:26:20 AM	37	6.53	29.7	45	738	
DW NW FENCE 0818 SX.txt	7/27/2017	4:56:20 PM	0115249311	7/27/2017	7:26:20 AM	38	37.97	29.3	44	738	
DW NW FENCE 0818 SX.txt	7/27/2017	5:11:20 PM	0115249311	7/27/2017	7:26:20 AM	39	16.8	29	45	738	
UPWIND 2535 SX.txt	7/27/2017	7:49:39 AM	CM15111015	7/27/2017	7:34:39 AM	1	-10.41	17.9	71	740	
UPWIND 2535 SX.txt	7/27/2017	8:04:39 AM	CM15111015	7/27/2017	7:34:39 AM	2	-11.33	18.1	73	740	
UPWIND 2535 SX.txt	7/27/2017	8:19:39 AM	CM15111015	7/27/2017	7:34:39 AM	3	-12.24	18.6	72	740	
UPWIND 2535 SX.txt	7/27/2017	8:34:39 AM	CM15111015	7/27/2017	7:34:39 AM	4	-12.03	19.1	71	740	
UPWIND 2535 SX.txt	7/27/2017	8:49:39 AM	CM15111015	7/27/2017	7:34:39 AM	5	-11.61	19.2	71	740	
UPWIND 2535 SX.txt	7/27/2017	9:04:39 AM	CM15111015	7/27/2017	7:34:39 AM	6	-12.39	19.2	72	740	
UPWIND 2535 SX.txt	7/27/2017	9:19:39 AM	CM15111015	7/27/2017	7:34:39 AM	7	-11.11	19.4	72	740	
UPWIND 2535 SX.txt	7/27/2017	9:34:39 AM	CM15111015	7/27/2017	7:34:39 AM	8	-10.81	19.6	73	740	
UPWIND 2535 SX.txt	7/27/2017	9:49:39 AM	CM15111015	7/27/2017	7:34:39 AM	9	-9.92	19.7	72	740	
UPWIND 2535 SX.txt	7/27/2017	10:04:39 AM	CM15111015	7/27/2017	7:34:39 AM	10	-8.5	20	72	740	
UPWIND 2535 SX.txt	7/27/2017	10:19:39 AM	CM15111015	7/27/2017	7:34:39 AM	11	-12.47	20.7	69	740	
UPWIND 2535 SX.txt	7/27/2017	10:34:39 AM	CM15111015	7/27/2017	7:34:39 AM	12	-12.47	21.6	66	740	
UPWIND 2535 SX.txt	7/27/2017	10:49:39 AM	CM15111015	7/27/2017	7:34:39 AM	13	-11.94	22.4	64	740	
UPWIND 2535 SX.txt	7/27/2017	11:04:39 AM	CM15111015	7/27/2017	7:34:39 AM	14	-11.83	23.1	62	740	
UPWIND 2535 SX.txt	7/27/2017	11:19:39 AM	CM15111015	7/27/2017	7:34:39 AM	15	-13.17	23.1	60	740	
UPWIND 2535 SX.txt	7/27/2017	11:34:39 AM	CM15111015	7/27/2017	7:34:39 AM	16	-12.71	23.4	60	740	
UPWIND 2535 SX.txt	7/27/2017	11:49:39 AM	CM15111015	7/27/2017	7:34:39 AM	17	-9.62	23.7	64	740	
UPWIND 2535 SX.txt	7/27/2017	12:04:39 PM	CM15111015	7/27/2017	7:34:39 AM	18	-12.7	24.4	61	740	
UPWIND 2535 SX.txt	7/27/2017	12:19:39 PM	CM15111015	7/27/2017	7:34:39 AM	19	-13.42	25.2	57	740	
UPWIND 2535 SX.txt	7/27/2017	12:34:39 PM	CM15111015	7/27/2017	7:34:39 AM	20	-13.35	25.6	56	740	
UPWIND 2535 SX.txt	7/27/2017	12:49:39 PM	CM15111015	7/27/2017	7:34:39 AM	21	-13.49	26	56	740	
UPWIND 2535 SX.txt	7/27/2017	1:04:39 PM	CM15111015	7/27/2017	7:34:39 AM	22	-11.54	26.6	54	740	
UPWIND 2535 SX.txt	7/27/2017	1:19:39 PM	CM15111015	7/27/2017	7:34:39 AM	23	-12.91	28.1	50	740	
UPWIND 2535 SX.txt	7/27/2017	1:34:39 PM	CM15111015	7/27/2017	7:34:39 AM	24	-9.72	29.8	46	740	
UPWIND 2535 SX.txt	7/27/2017	1:49:39 PM	CM15111015	7/27/2017	7:34:39 AM	25	-12.8	30.9	42	740	
UPWIND 2535 SX.txt	7/27/2017	2:04:39 PM	CM15111015	7/27/2017	7:34:39 AM	26	-14.62	32.1	40	740	
UPWIND 2535 SX.txt	7/27/2017	2:19:39 PM	CM15111015	7/27/2017	7:34:39 AM	27	-17.74	32.8	36	740	
UPWIND 2535 SX.txt	7/27/2017	2:34:39 PM	CM15111015	7/27/2017	7:34:39 AM	28	-18.66	32.5	36	740	
UPWIND 2535 SX.txt	7/27/2017	2:49:39 PM	CM15111015	7/27/2017	7:34:39 AM	29	-17.82	30.7	41	740	
UPWIND 2535 SX.txt	7/27/2017	3:04:39 PM	CM15111015	7/27/2017	7:34:39 AM	30	-18.59	30	42	740	
UPWIND 2535 SX.txt	7/27/2017	3:19:39 PM	CM15111015	7/27/2017	7:34:39 AM	31	-16.84	31.2	39	740	
UPWIND 2535 SX.txt	7/27/2017	3:34:39 PM	CM15111015	7/27/2017	7:34:39 AM	32	1.32	33.4	34	740	
UPWIND 2535 SX.txt	7/27/2017	3:49:39 PM	CM15111015	7/27/2017	7:34:39 AM	33	-16.06	33.6	34	740	
UPWIND 2535 SX.txt	7/27/2017	4:04:39 PM	CM15111015	7/27/2017	7:34:39 AM	34	-2.96	32.8	36	740	
UPWIND 2535 SX.txt	7/27/2017	4:19:39 PM	CM15111015	7/27/2017	7:34:39 AM	35	-18.31	33.1	35	740	
UPWIND 2535 SX.txt	7/27/2017	4:34:39 PM	CM15111015	7/27/2017	7:34:39 AM	36	-18.79	32.6	35	740	
UPWIND 2535 SX.txt	7/27/2017	4:49:39 PM	CM15111015	7/27/2017	7:34:39 AM	37	-17.96	32.3	36	740	
UPWIND 2535 SX.txt	7/27/2017	5:04:39 PM	CM15111015	7/27/2017	7:34:39 AM	38	-18.85	31.3	37	738	
UPWIND 2535 SX.txt	7/27/2017	5:19:39 PM	CM15111015	7/27/2017	7:34:39 AM	39	-12.54	30.4	40	738	
UPWIND 2535 SX.txt	7/27/2017	5:34:39 PM	CM15111015	7/27/2017	7:34:39 AM	40	-14.88	29.6	42	738	

Summary of CAMP Monitoring

Former Sperry Remington Site - North Portion
Elmira, New York

Unit Location	Record Date	Record Time	Unit Serial Number	Start Date	Start Time	Record #	Dust Concentration in µg/m^3	Temp	RHumidity	AtmoPressure in mm/Hg	Notes
0818 DW NW FENCE SX.txt	7/28/2017	8:24:39 AM	0115249311	7/28/2017	8:09:39 AM	1	-5.25	21.1	78	738	
0818 DW NW FENCE SX.txt	7/28/2017	8:39:39 AM	0115249311	7/28/2017	8:09:39 AM	2	-4.45	22.9	74	738	
0818 DW NW FENCE SX.txt	7/28/2017	8:54:39 AM	0115249311	7/28/2017	8:09:39 AM	3	-3.69	23.6	69	738	
0818 DW NW FENCE SX.txt	7/28/2017	9:09:39 AM	0115249311	7/28/2017	8:09:39 AM	4	-2.7	23.6	69	738	
0818 DW NW FENCE SX.txt	7/28/2017	9:24:39 AM	0115249311	7/28/2017	8:09:39 AM	5	-1.93	24	67	738	
0818 DW NW FENCE SX.txt	7/28/2017	9:39:39 AM	0115249311	7/28/2017	8:09:39 AM	6	-2.28	24.5	65	738	
0818 DW NW FENCE SX.txt	7/28/2017	9:54:39 AM	0115249311	7/28/2017	8:09:39 AM	7	-2	24.9	64	738	
0818 DW NW FENCE SX.txt	7/28/2017	10:09:39 AM	0115249311	7/28/2017	8:09:39 AM	8	-1.75	25.6	62	738	
0818 DW NW FENCE SX.txt	7/28/2017	10:24:39 AM	0115249311	7/28/2017	8:09:39 AM	9	-0.79	27	57	738	
0818 DW NW FENCE SX.txt	7/28/2017	10:39:39 AM	0115249311	7/28/2017	8:09:39 AM	10	4.29	28.1	51	738	
0818 DW NW FENCE SX.txt	7/28/2017	10:54:39 AM	0115249311	7/28/2017	8:09:39 AM	11	-0.07	29.1	48	738	
0818 DW NW FENCE SX.txt	7/28/2017	11:09:39 AM	0115249311	7/28/2017	8:09:39 AM	12	0.48	30.7	45	738	
0818 DW NW FENCE SX.txt	7/28/2017	11:24:39 AM	0115249311	7/28/2017	8:09:39 AM	13	2.39	31.9	43	738	
0818 DW NW FENCE SX.txt	7/28/2017	11:39:39 AM	0115249311	7/28/2017	8:09:39 AM	14	2.67	32.2	42	738	
0818 DW NW FENCE SX.txt	7/28/2017	11:54:39 AM	0115249311	7/28/2017	8:09:39 AM	15	0.96	31.9	43	738	
0818 DW NW FENCE SX.txt	7/28/2017	12:09:39 PM	0115249311	7/28/2017	8:09:39 AM	16	0.15	31.3	44	738	
0818 DW NW FENCE SX.txt	7/28/2017	12:24:39 PM	0115249311	7/28/2017	8:09:39 AM	17	0.23	30.8	46	738	
0818 DW NW FENCE SX.txt	7/28/2017	12:39:39 PM	0115249311	7/28/2017	8:09:39 AM	18	0.12	30.7	46	738	
0818 DW NW FENCE SX.txt	7/28/2017	12:54:39 PM	0115249311	7/28/2017	8:09:39 AM	19	0.73	30.4	46	738	
0818 DW NW FENCE SX.txt	7/28/2017	1:09:39 PM	0115249311	7/28/2017	8:09:39 AM	20	-0.97	30.5	47	738	
0818 DW NW FENCE SX.txt	7/28/2017	1:24:39 PM	0115249311	7/28/2017	8:09:39 AM	21	-1	30.5	46	738	
0818 DW NW FENCE SX.txt	7/28/2017	1:39:39 PM	0115249311	7/28/2017	8:09:39 AM	22	-1.38	30.4	47	738	
0818 DW NW FENCE SX.txt	7/28/2017	1:54:39 PM	0115249311	7/28/2017	8:09:39 AM	23	0.27	30.3	47	738	
0818 DW NW FENCE SX.txt	7/28/2017	2:09:39 PM	0115249311	7/28/2017	8:09:39 AM	24	1.29	29.6	48	738	
0818 DW NW FENCE SX.txt	7/28/2017	2:24:39 PM	0115249311	7/28/2017	8:09:39 AM	25	-0.96	29.2	48	738	
0818 DW NW FENCE SX.txt	7/28/2017	2:39:39 PM	0115249311	7/28/2017	8:09:39 AM	26	-1.69	29.4	47	738	
0818 DW NW FENCE SX.txt	7/28/2017	2:54:39 PM	0115249311	7/28/2017	8:09:39 AM	27	-1.31	29.6	47	738	
0818 DW NW FENCE SX.txt	7/28/2017	3:09:39 PM	0115249311	7/28/2017	8:09:39 AM	28	-2.01	29.5	46	738	
0818 DW NW FENCE SX.txt	7/28/2017	3:24:39 PM	0115249311	7/28/2017	8:09:39 AM	29	-2.98	29.3	45	738	
0818 DW NW FENCE SX.txt	7/28/2017	3:39:39 PM	0115249311	7/28/2017	8:09:39 AM	30	-2.59	29	45	738	
0818 DW NW FENCE SX.txt	7/28/2017	3:54:39 PM	0115249311	7/28/2017	8:09:39 AM	31	-2.44	28.7	47	738	
0818 DW NW FENCE SX.txt	7/28/2017	4:09:39 PM	0115249311	7/28/2017	8:09:39 AM	32	-3.4	28.9	46	736	
0818 DW NW FENCE SX.txt	7/28/2017	4:24:39 PM	0115249311	7/28/2017	8:09:39 AM	33	-0.86	28.8	45	736	
1421 DW NW CORN SX.txt	7/28/2017	8:23:20 AM	0115249975	7/28/2017	8:08:20 AM	1	-11.67	20.7	77	738	
1421 DW NW CORN SX.txt	7/28/2017	8:38:20 AM	0115249975	7/28/2017	8:08:20 AM	2	-10.8	21.7	75	738	
1421 DW NW CORN SX.txt	7/28/2017	8:53:20 AM	0115249975	7/28/2017	8:08:20 AM	3	-15.14	22	72	738	
1421 DW NW CORN SX.txt	7/28/2017	9:08:20 AM	0115249975	7/28/2017	8:08:20 AM	4	-13.28	21.6	73	738	
1421 DW NW CORN SX.txt	7/28/2017	9:23:20 AM	0115249975	7/28/2017	8:08:20 AM	5	-12.91	21.8	72	738	
1421 DW NW CORN SX.txt	7/28/2017	9:38:20 AM	0115249975	7/28/2017	8:08:20 AM	6	-14.72	22.1	70	738	
1421 DW NW CORN SX.txt	7/28/2017	9:53:20 AM	0115249975	7/28/2017	8:08:20 AM	7	-14.84	22.6	68	738	
1421 DW NW CORN SX.txt	7/28/2017	10:08:20 AM	0115249975	7/28/2017	8:08:20 AM	8	-15.34	22.9	66	738	
1421 DW NW CORN SX.txt	7/28/2017	10:23:20 AM	0115249975	7/28/2017	8:08:20 AM	9	-17.07	23.6	64	738	
1421 DW NW CORN SX.txt	7/28/2017	10:38:20 AM	0115249975	7/28/2017	8:08:20 AM	10	-19.5	24.9	59	738	
1421 DW NW CORN SX.txt	7/28/2017	10:53:20 AM	0115249975	7/28/2017	8:08:20 AM	11	-22.1	26.1	54	738	
1421 DW NW CORN SX.txt	7/28/2017	11:08:20 AM	0115249975	7/28/2017	8:08:20 AM	12	-22.52	27.6	49	738	
1421 DW NW CORN SX.txt	7/28/2017	11:23:20 AM	0115249975	7/28/2017	8:08:20 AM	13	-11.5	28.8	47	738	
1421 DW NW CORN SX.txt	7/28/2017	11:38:20 AM	0115249975	7/28/2017	8:08:20 AM	14	-17.04	28.5	47	738	
1421 DW NW CORN SX.txt	7/28/2017	11:53:20 AM	0115249975	7/28/2017	8:08:20 AM	15	-23.86	28.7	47	738	
1421 DW NW CORN SX.txt	7/28/2017	12:08:20 PM	0115249975	7/28/2017	8:08:20 AM	16	-25.23	28.6	47	738	
1421 DW NW CORN SX.txt	7/28/2017	12:23:20 PM	0115249975	7/28/2017	8:08:20 AM	17	-24.81	28.2	48	738	
1421 DW NW CORN SX.txt	7/28/2017	12:38:20 PM	0115249975	7/28/2017	8:08:20 AM	18	-24.32	27.7	49	738	
1421 DW NW CORN SX.txt	7/28/2017	12:53:20 PM	0115249975	7/28/2017	8:08:20 AM	19	-24.62	27.1	51	738	
1421 DW NW CORN SX.txt	7/28/2017	1:08:20 PM	0115249975	7/28/2017	8:08:20 AM	20	-25.24	26.9	52	738	
1421 DW NW CORN SX.txt	7/28/2017	1:23:20 PM	0115249975	7/28/2017	8:08:20 AM	21	-25.24	26.8	52	738	
1421 DW NW CORN SX.txt	7/28/2017	1:38:20 PM	0115249975	7/28/2017	8:08:20 AM	22	-25.56	26.6	52	738	
1421 DW NW CORN SX.txt	7/28/2017	1:53:20 PM	0115249975	7/28/2017	8:08:20 AM	23	-22.67	26.7	53	738	
1421 DW NW CORN SX.txt	7/28/2017	2:08:20 PM	0115249975	7/28/2017	8:08:20 AM	24	-21.94	25.8	55	738	
1421 DW NW CORN SX.txt	7/28/2017	2:23:20 PM	0115249975	7/28/2017	8:08:20 AM	25	-23.61	25.3	56	738	
1421 DW NW CORN SX.txt	7/28/2017	2:38:20 PM	0115249975	7/28/2017	8:08:20 AM	26	-24.92	25.4	56	738	
1421 DW NW CORN SX.txt	7/28/2017	2:53:20 PM	0115249975	7/28/2017	8:08:20 AM	27	-26.05	25.7	55	738	
1421 DW NW CORN SX.txt	7/28/2017	3:08:20 PM	0115249975	7/28/2017	8:08:20 AM	28	-26.85	26.2	52	738	
1421 DW NW CORN SX.txt	7/28/2017	3:23:20 PM	0115249975	7/28/2017	8:08:20 AM	29	-28.9	26.1	51	738	
1421 DW NW CORN SX.txt	7/28/2017	3:38:20 PM	0115249975	7/28/2017	8:08:20 AM	30	-28.95	25.8	51	738	
1421 DW NW CORN SX.txt	7/28/2017	3:53:20 PM	0115249975	7/28/2017	8:08:20 AM	31	-28.15	25.6	53	736	
1421 DW NW CORN SX.txt	7/28/2017	4:08:20 PM	0115249975	7/28/2017	8:08:20 AM	32	-28.78	25.8	52	736	
1421 DW NW CORN SX.txt	7/28/2017	4:23:20 PM	0115249975	7/28/2017	8:08:20 AM	33	-30.15	25.6	51	736	
1422 DW NE FENCE SP.txt	7/28/2017	8:18:01 AM	0115249980	7/28/2017	8:03:01 AM	1	-0.76	18.5	84	738	
1422 DW NE FENCE SP.txt	7/28/2017	8:33:01 AM	0115249980	7/28/2017	8:03:01 AM	2	-1.04	19.8	81	738	
1422 DW NE FENCE SP.txt	7/28/2017	8:48:01 AM	0115249980	7/28/2017	8:03:01 AM	3	-1.85	20.4	79	738	
1422 DW NE FENCE SP.txt	7/28/2017	9:03:01 AM	0115249980	7/28/2017	8:03:01 AM	4	-2.27	20.7	77	738	
1422 DW NE FENCE SP.txt	7/28/2017	9:18:01 AM	0115249980	7/28/2017	8:03:01 AM	5	-1.85	20.8	76	738	
1422 DW NE FENCE SP.txt	7/28/2017	9:33:01 AM	0115249980	7/28/2017	8:03:01 AM	6	-2.04	21.1	74	738	
1422 DW NE FENCE SP.txt	7/28/2017	9:48:01 AM	0115249980	7/28/2017	8:03:01 AM	7	-1.61	21.4	73	738	
1422 DW NE FENCE SP.txt	7/28/2017	10:03:01 AM	0115249980	7/28/2017	8:03:01 AM	8	-1.59	22	71	738	
1422 DW NE FENCE SP.txt	7/28/2017	10:18:01 AM	0115249980	7/28/2017	8:03:01 AM	9	-2.6	22.5	68	738	
1422 DW NE FENCE SP.txt	7/28/2017	10:33:01 AM	0115249980	7/28/2017	8:03:01 AM	10	-1.98	23.1	66	738	
1422 DW NE FENCE SP.txt	7/28/2017	10:48:01 AM	0115249980	7/28/2017	8:03:01 AM	11	0.93	23.7	63	738	
1422 DW NE FENCE SP.txt	7/28/2017	11:03:01 AM	0115249980	7/28/2017	8:03:01 AM	12	-4.83	24.3	60	738	
1422 DW NE FENCE SP.txt	7/28/2017	11:18:01 AM	0115249980	7/28/2017	8:03:01 AM	13	-5.07	24.9	59	738	
1422 DW NE FENCE SP.txt	7/28/2017	11:33:01 AM	0115249980	7/28/2017	8:03:01 AM	14	1.11	25.5	57	738	
1422 DW NE FENCE SP.txt	7/28/2017	11:48:01 AM	0115249980	7/28/2017	8:03:01 AM	15	-2.6	25.7	57	738	
1422 DW NE FENCE SP.txt	7/28/2017	12:03:01 PM	0115249980	7/28/2017	8:03:01 AM	16	-2.71	26	56	738	
1422 DW NE FENCE SP.txt	7/28/2017	12:18:01 PM	0115249980	7/28/2017	8:03:01 AM	17	-6.04	26.2	55	738	
1422 DW NE FENCE SP.txt	7/28/2017	12:33:01 PM	0115249980	7/28/2017	8:03:01 AM	18	-6.47	26.5	54	738	
1422 DW NE FENCE SP.txt	7/28/2017	12:48:01 PM	0115249980	7/28/2017	8:03:01 AM	19	-6.7	26.7	54	738	
1422 DW NE FENCE SP.txt	7/28/2017	1:03:01 PM	0115249980	7/28/2017	8:03:01 AM	20	-5.95	26.9	53	738	
1422 DW NE FENCE SP.txt	7/28/2017	1:18:01 PM	0115249980	7/28/2017	8:03:01 AM	21	0.37	27.1	52	738	
1422 DW NE FENCE SP.txt	7/28/2017	1:33:01 PM	0115249980	7/28/2017	8:03:01 AM	22	-0.52	27.2	52	738	
1422 DW NE FENCE SP.txt	7/28/2017	1:48:01 PM	0115249980	7/28/2017	8:03:01 AM	23	-3.4	27.5	51	738	
1422 DW NE FENCE SP.txt	7/28/2017	2:03:01 PM	0115249980	7/28/2017	8:03:01 AM	24	2.62	27.2	51	738	
1422 DW NE FENCE SP.txt	7/28/2017	2:18:01 PM	0115249980	7/28/2017	8:03:01 AM	25	-7.99	26.8	52	738	
1422 DW NE FENCE SP.txt	7/28/2017	2:33:01 PM	0115249980	7/28/2017	8:03:01 AM	26	-8.61	27.3	51	738	
1422 DW NE FENCE SP.txt	7/28/2017	2:48:01 PM	0115249980	7/28/2017	8:03:01 AM	27	-9.17	27.7	49	738	
1422 DW NE FENCE SP.txt	7/28/2017	3:03:01 PM	0115249980	7/28/2017	8:03:01 AM	28	-7.96	28	49	738	
1422 DW NE FENCE SP.txt	7/28/2017	3:18:01 PM	0115249980	7/28/2017	8:03:01 AM	29	-1.45	28.1	48	738	
1422 DW NE FENCE SP.txt	7/28/2017	3:33:01 PM	0115249980	7/28/2017	8:03:01 AM	30	-9.69	28.2	46	738	
1422 DW NE FENCE SP.txt	7/28/2017	3:48:01 PM	0115249980	7/28/2017	8:03:01 AM	31	-8.26	27.6	47	738	
1422 DW NE FENCE SP.txt	7/28/2017	4:03:01 PM	0115249980	7/28/2017	8:03:01 AM	32	25.28	28.1	47	738	
1422 DW NE FENCE SP.txt	7/28/2017	4:18:01 PM	0115249980	7/28/2017	8:03:01 AM	33	-6.6	29.1	44	738	
1422 DW NE FENCE SP.txt	7/28/2017	4:33:01 PM	0115249980	7/28/2017	8:03:01 AM	34	13.43	29.5	41	738	
1428 DW NE CORN SX.txt	7/28/2017	8:24:27 AM	0115250007	7/28/2017	8:09:27 AM	1	-7.46	19.6	84	738	
1428 DW NE CORN SX.txt	7/28/2017	8:39:27 AM	0115250007	7/28/2017	8:09:27 AM	2	-8.97	21	81	738	
1428 DW NE CORN SX.txt	7/28/2017	8:54:27 AM	0115250007	7/28/2017	8:09:27 AM	3	-10.06	21.6	77	738	
1428 DW NE CORN SX.txt	7/28/2017	9:09:27 AM	0115250007	7/28/2017	8:09:27 AM	4	-9.69	21.5	76	738	
1428 DW NE CORN SX.txt	7/28/2017	9:24:27 AM	0115250007	7/28/2017	8:09:27 AM	5	-10.23	21.9	75	738	
1428 DW NE CORN SX.txt	7/28/2017	9:39:27 AM	0115250007	7/28/2017	8:09:27 AM	6	-10.78	22.5	72	738	
1428 DW NE CORN SX.txt	7/28/2017	9:54:27 AM	0115250007	7/28/2017	8:09:27 AM	7	-11.73	23	70	738	
1428 DW NE CORN SX.txt	7/28/2017	10:09:27 AM	0115250007	7/28/2017	8:09:27 AM	8	-12.1	23.4	69	738	
1428 DW NE CORN SX.txt	7/28/2017	10:24:27 AM	0115250007	7/28/2017	8:09:27 AM	9	-12.74	24	67	738	
1428 DW NE CORN SX.txt	7/28/2017	10:39:27 AM	0115250007	7/28/2017	8:09:27 AM	10	-13.53	25.3	63	740	
1428 DW NE CORN SX.txt	7/28/2017	10:54:27 AM	0115250007	7/28/2017	8:09:27 AM	11	-15.3	26.4	58	740	
1428 DW NE CORN SX.txt	7/28/2017	11:09:27 AM	0115250007	7/28/2017	8:09:27 AM	12	-15.83	27.2	55	738	
1428 DW NE CORN SX.txt	7/28/2017	11:24:27 AM	0115250007	7/28/2017	8:09:27 AM	13	-17.32	28.5	52	740	
1428 DW NE CORN SX.txt	7/28/2017	11:39:27 AM	0115250007	7/28/2017	8:09:27 AM	14	-18.02	29.1	50	740	
1428 DW NE CORN SX.txt	7/28/2017	11:54:27 AM	0115250007	7/28/2017	8:09:27 AM	15	-18.71	29.8	49	740	
1428 DW NE CORN SX.txt	7/28/2017	12:09:27 PM	0115250007	7/28/2017	8:09:27 AM	16	-19.31	30	48	740	
1428 DW NE CORN SX.txt	7/28/2017	12:24:27 PM	0115250007	7/28/2017	8:09:27 AM	17	-19.47	29.9	48	740	
1428 DW NE CORN SX.txt	7/28/2017	12:39:27 PM	0115250007	7/28/2017	8:09:27 AM	18	-19.42	29.9	48	740	
1428 DW NE CORN SX.txt	7/28/2017	12:54:27 PM	0115250007	7/28/2017	8:09:27 AM	19	-20	29.6	48	738	
1428 DW NE CORN SX.txt	7/28/2017	1:09:27 PM	0115250007	7/28/2017	8:09:27 AM	20	-20.38	29.6	48	738	
1428 DW NE CORN SX.txt	7/28/2017	1:24:27 PM	0115250007	7/28/2017	8:09:27 AM	21	-21.04	29.7	48	738	
1428 DW NE CORN SX.txt	7/28/2017	1:39:27 PM	0115250007	7/28/2017	8:09:27 AM	22	-21.58	29.4	48	738	
1428 DW NE CORN SX.txt	7/28/2017	1:54:27 PM	0115250007	7/28/2017	8:09:27 AM	23	-21.06	29.3	49	738	
1428 DW NE CORN SX.txt	7/28/2017	2:09:27 PM	0115250007	7/28/2017	8:09:27 AM	24	-20.32	28.5	50	738	
1428 DW NE CORN SX.txt	7/28/2017	2:24:27 PM	0115250007	7/28/2017	8:09:27 AM	25	-20.95	27.8	52	738	
1428 DW NE CORN SX.txt	7/28/2017	2:39:27 PM	0115250007	7/28/2017	8:09:27 AM	26	-21.27	28.2	51	738	
1428 DW NE CORN SX.txt	7/28/2017	2:54:27 PM	0115250007	7/28/2017	8:09:27 AM	27	-21.79	28.6	50	738	
1428 DW NE CORN SX.txt	7/28/2017	3:09:27 PM	0115250007	7/28/2017	8:09:27 AM	28	-22.22	29	48	738	

Former Sperry Remington Site - North Portion
Elmira, New York

Unit Location	Record Date	Record Time	Unit Serial Number	Start Date	Start Time	Record #	Dust Concentration in µg/m^3	Temp	RHumidity	AtmoPressure in mm/Hg	Notes
1428 DW NE CORN SX.txt	7/28/2017	3:24:27 PM	0115250007	7/28/2017	8:09:27 AM	29	-22.63	28.8	48	738	
1428 DW NE CORN SX.txt	7/28/2017	3:39:27 PM	0115250007	7/28/2017	8:09:27 AM	30	-23.04	28.5	48	738	
1428 DW NE CORN SX.txt	7/28/2017	3:54:27 PM	0115250007	7/28/2017	8:09:27 AM	31	-22.77	28.2	49	738	
1428 DW NE CORN SX.txt	7/28/2017	4:09:27 PM	0115250007	7/28/2017	8:09:27 AM	32	-23.61	29.2	47	738	
1428 DW NE CORN SX.txt	7/28/2017	4:24:27 PM	0115250007	7/28/2017	8:09:27 AM	33	-24.01	29.3	45	738	
1429 DW N CENTER SX.txt	7/28/2017	8:22:55 AM	0115250009	7/28/2017	8:07:55 AM	1	-8.78	19.4	82	738	
1429 DW N CENTER SX.txt	7/28/2017	8:37:55 AM	0115250009	7/28/2017	8:07:55 AM	2	-9.19	20.2	80	738	
1429 DW N CENTER SX.txt	7/28/2017	8:52:55 AM	0115250009	7/28/2017	8:07:55 AM	3	-10.94	20.5	76	738	
1429 DW N CENTER SX.txt	7/28/2017	9:07:55 AM	0115250009	7/28/2017	8:07:55 AM	4	-9.53	20.6	76	738	
1429 DW N CENTER SX.txt	7/28/2017	9:22:55 AM	0115250009	7/28/2017	8:07:55 AM	5	-8.2	21	75	738	
1429 DW N CENTER SX.txt	7/28/2017	9:37:55 AM	0115250009	7/28/2017	8:07:55 AM	6	-10.78	21.4	73	738	
1429 DW N CENTER SX.txt	7/28/2017	9:52:55 AM	0115250009	7/28/2017	8:07:55 AM	7	-10.73	21.9	72	738	
1429 DW N CENTER SX.txt	7/28/2017	10:07:55 AM	0115250009	7/28/2017	8:07:55 AM	8	-10.92	22.2	71	738	
1429 DW N CENTER SX.txt	7/28/2017	10:22:55 AM	0115250009	7/28/2017	8:07:55 AM	9	-11.4	22.6	70	738	
1429 DW N CENTER SX.txt	7/28/2017	10:37:55 AM	0115250009	7/28/2017	8:07:55 AM	10	-10.66	23.7	66	738	
1429 DW N CENTER SX.txt	7/28/2017	10:52:55 AM	0115250009	7/28/2017	8:07:55 AM	11	-15.13	24.6	61	738	
1429 DW N CENTER SX.txt	7/28/2017	11:07:55 AM	0115250009	7/28/2017	8:07:55 AM	12	-16.04	25.2	58	738	
1429 DW N CENTER SX.txt	7/28/2017	11:22:55 AM	0115250009	7/28/2017	8:07:55 AM	13	-0.89	26.1	57	738	
1429 DW N CENTER SX.txt	7/28/2017	11:37:55 AM	0115250009	7/28/2017	8:07:55 AM	14	-9.26	26.4	55	738	
1429 DW N CENTER SX.txt	7/28/2017	11:52:55 AM	0115250009	7/28/2017	8:07:55 AM	15	-17.9	26.9	56	738	
1429 DW N CENTER SX.txt	7/28/2017	12:07:55 PM	0115250009	7/28/2017	8:07:55 AM	16	-18.85	27.2	54	738	
1429 DW N CENTER SX.txt	7/28/2017	12:22:55 PM	0115250009	7/28/2017	8:07:55 AM	17	-18.98	27.3	54	738	
1429 DW N CENTER SX.txt	7/28/2017	12:37:55 PM	0115250009	7/28/2017	8:07:55 AM	18	-18.81	27.1	55	738	
1429 DW N CENTER SX.txt	7/28/2017	12:52:55 PM	0115250009	7/28/2017	8:07:55 AM	19	-18.8	26.9	55	738	
1429 DW N CENTER SX.txt	7/28/2017	1:07:55 PM	0115250009	7/28/2017	8:07:55 AM	20	-19.09	27.1	55	738	
1429 DW N CENTER SX.txt	7/28/2017	1:22:55 PM	0115250009	7/28/2017	8:07:55 AM	21	-19.64	27.3	54	738	
1429 DW N CENTER SX.txt	7/28/2017	1:37:55 PM	0115250009	7/28/2017	8:07:55 AM	22	-21.11	27.2	54	738	
1429 DW N CENTER SX.txt	7/28/2017	1:52:55 PM	0115250009	7/28/2017	8:07:55 AM	23	-19.21	27.9	53	738	
1429 DW N CENTER SX.txt	7/28/2017	2:07:55 PM	0115250009	7/28/2017	8:07:55 AM	24	-18.57	27	54	738	
1429 DW N CENTER SX.txt	7/28/2017	2:22:55 PM	0115250009	7/28/2017	8:07:55 AM	25	-19.79	26.3	56	738	
1429 DW N CENTER SX.txt	7/28/2017	2:37:55 PM	0115250009	7/28/2017	8:07:55 AM	26	-21.73	26.7	55	738	
1429 DW N CENTER SX.txt	7/28/2017	2:52:55 PM	0115250009	7/28/2017	8:07:55 AM	27	-21.7	27.1	54	738	
1429 DW N CENTER SX.txt	7/28/2017	3:07:55 PM	0115250009	7/28/2017	8:07:55 AM	28	-21.28	27.6	52	738	
1429 DW N CENTER SX.txt	7/28/2017	3:22:55 PM	0115250009	7/28/2017	8:07:55 AM	29	-22.75	27.3	50	738	
1429 DW N CENTER SX.txt	7/28/2017	3:37:55 PM	0115250009	7/28/2017	8:07:55 AM	30	-23.4	26.8	51	738	
1429 DW N CENTER SX.txt	7/28/2017	3:52:55 PM	0115250009	7/28/2017	8:07:55 AM	31	-23.11	26.9	53	738	
1429 DW N CENTER SX.txt	7/28/2017	4:07:55 PM	0115250009	7/28/2017	8:07:55 AM	32	-24.01	28.1	49	738	
1429 DW N CENTER SX.txt	7/28/2017	4:22:55 PM	0115250009	7/28/2017	8:07:55 AM	33	-23.78	28	48	738	
1860 DW NW FENCE SP.txt	7/28/2017	8:21:20 AM	0115250203	7/28/2017	8:06:20 AM	1	-0.2	20.2	82	738	
1860 DW NW FENCE SP.txt	7/28/2017	8:36:20 AM	0115250203	7/28/2017	8:06:20 AM	2	-1.32	22.3	75	738	
1860 DW NW FENCE SP.txt	7/28/2017	8:51:20 AM	0115250203	7/28/2017	8:06:20 AM	3	-1.75	23.1	70	738	
1860 DW NW FENCE SP.txt	7/28/2017	9:06:20 AM	0115250203	7/28/2017	8:06:20 AM	4	-0.75	22.7	71	738	
1860 DW NW FENCE SP.txt	7/28/2017	9:21:20 AM	0115250203	7/28/2017	8:06:20 AM	5	-0.15	22.3	72	738	
1860 DW NW FENCE SP.txt	7/28/2017	9:36:20 AM	0115250203	7/28/2017	8:06:20 AM	6	-0.35	22.5	71	738	
1860 DW NW FENCE SP.txt	7/28/2017	9:51:20 AM	0115250203	7/28/2017	8:06:20 AM	7	-0.09	23	68	738	
1860 DW NW FENCE SP.txt	7/28/2017	10:06:20 AM	0115250203	7/28/2017	8:06:20 AM	8	-0.14	23.5	67	738	
1860 DW NW FENCE SP.txt	7/28/2017	10:21:20 AM	0115250203	7/28/2017	8:06:20 AM	9	-1.02	24.3	64	738	
1860 DW NW FENCE SP.txt	7/28/2017	10:36:20 AM	0115250203	7/28/2017	8:06:20 AM	10	1.37	25.9	59	738	
1860 DW NW FENCE SP.txt	7/28/2017	10:51:20 AM	0115250203	7/28/2017	8:06:20 AM	11	-1.97	27	54	738	
1860 DW NW FENCE SP.txt	7/28/2017	11:06:20 AM	0115250203	7/28/2017	8:06:20 AM	12	-3.67	29	48	738	
1860 DW NW FENCE SP.txt	7/28/2017	11:21:20 AM	0115250203	7/28/2017	8:06:20 AM	13	-2.44	30.4	45	738	
1860 DW NW FENCE SP.txt	7/28/2017	11:36:20 AM	0115250203	7/28/2017	8:06:20 AM	14	-1.27	30.8	45	738	
1860 DW NW FENCE SP.txt	7/28/2017	11:51:20 AM	0115250203	7/28/2017	8:06:20 AM	15	-1.87	31	44	738	
1860 DW NW FENCE SP.txt	7/28/2017	12:06:20 PM	0115250203	7/28/2017	8:06:20 AM	16	-3.3	30.4	45	738	
1860 DW NW FENCE SP.txt	7/28/2017	12:21:20 PM	0115250203	7/28/2017	8:06:20 AM	17	-3.31	30.2	45	738	
1860 DW NW FENCE SP.txt	7/28/2017	12:36:20 PM	0115250203	7/28/2017	8:06:20 AM	18	-3.81	29.5	47	738	
1860 DW NW FENCE SP.txt	7/28/2017	12:51:20 PM	0115250203	7/28/2017	8:06:20 AM	19	-3.96	28.5	49	738	
1860 DW NW FENCE SP.txt	7/28/2017	1:06:20 PM	0115250203	7/28/2017	8:06:20 AM	20	-2.73	28.3	50	738	
1860 DW NW FENCE SP.txt	7/28/2017	1:21:20 PM	0115250203	7/28/2017	8:06:20 AM	21	-3.04	27.8	51	738	
1860 DW NW FENCE SP.txt	7/28/2017	1:36:20 PM	0115250203	7/28/2017	8:06:20 AM	22	-1.85	27.9	51	738	
1860 DW NW FENCE SP.txt	7/28/2017	1:51:20 PM	0115250203	7/28/2017	8:06:20 AM	23	-3.06	27.6	52	738	
1860 DW NW FENCE SP.txt	7/28/2017	2:06:20 PM	0115250203	7/28/2017	8:06:20 AM	24	-3.24	27.1	53	738	
1860 DW NW FENCE SP.txt	7/28/2017	2:21:20 PM	0115250203	7/28/2017	8:06:20 AM	25	-5.06	26.4	55	738	
1860 DW NW FENCE SP.txt	7/28/2017	2:36:20 PM	0115250203	7/28/2017	8:06:20 AM	26	-5.85	26.8	54	738	
1860 DW NW FENCE SP.txt	7/28/2017	2:51:20 PM	0115250203	7/28/2017	8:06:20 AM	27	-6.12	27.3	52	738	
1860 DW NW FENCE SP.txt	7/28/2017	3:06:20 PM	0115250203	7/28/2017	8:06:20 AM	28	-6.42	27.6	51	738	
1860 DW NW FENCE SP.txt	7/28/2017	3:21:20 PM	0115250203	7/28/2017	8:06:20 AM	29	-6.01	27.5	50	738	
1860 DW NW FENCE SP.txt	7/28/2017	3:36:20 PM	0115250203	7/28/2017	8:06:20 AM	30	-7.63	27.3	49	738	
1860 DW NW FENCE SP.txt	7/28/2017	3:51:20 PM	0115250203	7/28/2017	8:06:20 AM	31	-7.32	26.7	51	738	
1860 DW NW FENCE SP.txt	7/28/2017	4:06:20 PM	0115250203	7/28/2017	8:06:20 AM	32	-7.78	26.5	52	736	
1860 DW NW FENCE SP.txt	7/28/2017	4:21:20 PM	0115250203	7/28/2017	8:06:20 AM	33	-8.59	26.4	50	736	
1860 DW NW FENCE SP.txt	7/28/2017	4:36:20 PM	0115250203	7/28/2017	8:06:20 AM	34	-6.9	26	51	736	
1936 DW NW CORN SP.txt	7/28/2017	8:15:58 AM	0115250202	7/28/2017	8:00:58 AM	1	-1.38	19.3	87	738	
1936 DW NW CORN SP.txt	7/28/2017	8:30:58 AM	0115250202	7/28/2017	8:00:58 AM	2	-3.02	21.1	80	738	
1936 DW NW CORN SP.txt	7/28/2017	8:45:58 AM	0115250202	7/28/2017	8:00:58 AM	3	-2.72	22.1	75	738	
1936 DW NW CORN SP.txt	7/28/2017	9:00:58 AM	0115250202	7/28/2017	8:00:58 AM	4	-1.67	22.6	72	738	
1936 DW NW CORN SP.txt	7/28/2017	9:15:58 AM	0115250202	7/28/2017	8:00:58 AM	5	-0.6	22.6	72	738	
1936 DW NW CORN SP.txt	7/28/2017	9:30:58 AM	0115250202	7/28/2017	8:00:58 AM	6	-0.58	22.7	71	738	
1936 DW NW CORN SP.txt	7/28/2017	9:45:58 AM	0115250202	7/28/2017	8:00:58 AM	7	0.08	23	69	738	
1936 DW NW CORN SP.txt	7/28/2017	10:00:58 AM	0115250202	7/28/2017	8:00:58 AM	8	0.87	23.5	68	738	
1936 DW NW CORN SP.txt	7/28/2017	10:15:58 AM	0115250202	7/28/2017	8:00:58 AM	9	-0.43	24.2	65	738	
1936 DW NW CORN SP.txt	7/28/2017	10:30:58 AM	0115250202	7/28/2017	8:00:58 AM	10	-0.94	25.4	61	740	
1936 DW NW CORN SP.txt	7/28/2017	10:45:58 AM	0115250202	7/28/2017	8:00:58 AM	11	0.3	26.7	56	740	
1936 DW NW CORN SP.txt	7/28/2017	11:00:58 AM	0115250202	7/28/2017	8:00:58 AM	12	-1.96	27.9	53	740	
1936 DW NW CORN SP.txt	7/28/2017	11:15:58 AM	0115250202	7/28/2017	8:00:58 AM	13	-1.67	30.1	48	740	
1936 DW NW CORN SP.txt	7/28/2017	11:30:58 AM	0115250202	7/28/2017	8:00:58 AM	14	0.43	31.4	43	740	
1936 DW NW CORN SP.txt	7/28/2017	11:45:58 AM	0115250202	7/28/2017	8:00:58 AM	15	0.55	31.6	43	740	
1936 DW NW CORN SP.txt	7/28/2017	12:00:58 PM	0115250202	7/28/2017	8:00:58 AM	16	0.19	31.6	44	740	
1936 DW NW CORN SP.txt	7/28/2017	12:15:58 PM	0115250202	7/28/2017	8:00:58 AM	17	-0.85	31.5	43	738	
1936 DW NW CORN SP.txt	7/28/2017	12:30:58 PM	0115250202	7/28/2017	8:00:58 AM	18	-1.61	31.1	44	738	
1936 DW NW CORN SP.txt	7/28/2017	12:45:58 PM	0115250202	7/28/2017	8:00:58 AM	19	-2.22	30.2	47	738	
1936 DW NW CORN SP.txt	7/28/2017	1:00:58 PM	0115250202	7/28/2017	8:00:58 AM	20	-0.87	29.8	48	738	
1936 DW NW CORN SP.txt	7/28/2017	1:15:58 PM	0115250202	7/28/2017	8:00:58 AM	21	0.02	29.2	49	738	
1936 DW NW CORN SP.txt	7/28/2017	1:30:58 PM	0115250202	7/28/2017	8:00:58 AM	22	-0.67	28.9	50	738	
1936 DW NW CORN SP.txt	7/28/2017	1:45:58 PM	0115250202	7/28/2017	8:00:58 AM	23	1.37	28.9	50	738	
1936 DW NW CORN SP.txt	7/28/2017	2:00:58 PM	0115250202	7/28/2017	8:00:58 AM	24	-1.09	28.8	50	738	
1936 DW NW CORN SP.txt	7/28/2017	2:15:58 PM	0115250202	7/28/2017	8:00:58 AM	25	-3.21	27.7	53	738	
1936 DW NW CORN SP.txt	7/28/2017	2:30:58 PM	0115250202	7/28/2017	8:00:58 AM	26	-3.99	27.8	53	738	
1936 DW NW CORN SP.txt	7/28/2017	2:45:58 PM	0115250202	7/28/2017	8:00:58 AM	27	-4.67	28.5	50	738	
1936 DW NW CORN SP.txt	7/28/2017	3:00:58 PM	0115250202	7/28/2017	8:00:58 AM	28	-4.58	28.8	49	738	
1936 DW NW CORN SP.txt	7/28/2017	3:15:58 PM	0115250202	7/28/2017	8:00:58 AM	29	-3.68	28.8	49	738	
1936 DW NW CORN SP.txt	7/28/2017	3:30:58 PM	0115250202	7/28/2017	8:00:58 AM	30	-5.53	28.5	48	738	
1936 DW NW CORN SP.txt	7/28/2017	3:45:58 PM	0115250202	7/28/2017	8:00:58 AM	31	-5.72	27.8	49	738	
1936 DW NW CORN SP.txt	7/28/2017	4:00:58 PM	0115250202	7/28/2017	8:00:58 AM	32	-5.84	27.7	51	738	
1936 DW NW CORN SP.txt	7/28/2017	4:15:58 PM	0115250202	7/28/2017	8:00:58 AM	33	-6.55	28.1	48	738	
1936 DW NW CORN SP.txt	7/28/2017	4:30:58 PM	0115250202	7/28/2017	8:00:58 AM	34	-4.78	28.1	47	738	
1954 UPWIND SP.txt	7/28/2017	8:19:03 AM	0115250211	7/28/2017	8:04:03 AM	1	-88.28	19.5	83	738	
1954 UPWIND SP.txt	7/28/2017	8:34:03 AM	0115250211	7/28/2017	8:04:03 AM	2	-99.3	20.4	81	738	
1954 UPWIND SP.txt	7/28/2017	8:49:03 AM	0115250211	7/28/2017	8:04:03 AM	3	-106.55	20.8	79	738	
1954 UPWIND SP.txt	7/28/2017	9:04:03 AM	0115250211	7/28/2017	8:04:03 AM	4	-110.59	21	78	738	
1954 UPWIND SP.txt	7/28/2017	9:19:03 AM	0115250211	7/28/2017	8:04:03 AM	5	-111.29	20.9	77	738	
1954 UPWIND SP.txt	7/28/2017	9:34:03 AM	0115250211	7/28/2017	8:04:03 AM	6	-117	21.1	75	738	
1954 UPWIND SP.txt	7/28/2017	9:49:03 AM	0115250211	7/28/2017	8:04:03 AM	7	-119.95	21.4	74	738	
1954 UPWIND SP.txt	7/28/2017	10:04:03 AM	0115250211	7/28/2017	8:04:03 AM	8	-126.91	21.9	73	738	
1954 UPWIND SP.txt	7/28/2017	10:19:03 AM	0115250211	7/28/2017	8:04:03 AM	9	-136.71	22.2	70	738	
1954 UPWIND SP.txt	7/28/2017	10:34:03 AM	0115250211	7/28/2017	8:04:03 AM	10	-139.81	22.6	69	738	
1954 UPWIND SP.txt	7/28/2017	10:49:03 AM	0115250211	7/28/2017	8:04:03 AM	11	-151.79	23.3	64	738	
1954 UPWIND SP.txt	7/28/2017	11:04:03 AM	0115250211	7/28/2017	8:04:03 AM	12	-161.63	24.3	61	738	
1954 UPWIND SP.txt	7/28/2017	11:19:03 AM	0115250211	7/28/2017	8:04:03 AM	13	-166.68	25.6	59	738	
1954 UPWIND SP.txt	7/28/2017	11:34:03 AM	0115250211	7/28/2017	8:04:03 AM	14	-171.46	26.3	56	738	
1954 UPWIND SP.txt	7/28/2017	11:49:03 AM	0115250211	7/28/2017	8:04:03 AM	15	-172.27	26.5	55	738	
1954 UPWIND SP.txt	7/28/2017	12:04:03 PM	0115250211	7/28/2017	8:04:03 AM	16	-173.48	26.5	55	738	
1954 UPWIND SP.txt	7/28/2017	12:19:03 PM	0115250211	7/28/2017	8:04:03 AM	17	-175.51	26.6	55	738	
1954 UPWIND SP.txt	7/28/2017	12:34:03 PM	0115250211	7/28/2017	8:04:03 AM	18	-175.02	26.5	55	738	
1954 UPWIND SP.txt	7/28/2017	12:49:03 PM	0115250211	7/28/2017	8:04:03 AM	19	-173.64	26.4	56	738	
1954 UPWIND SP.txt	7/28/2017	1:04:03 PM	0115250211	7/28/2017	8:04:03 AM	20	-174.04	26.2	56	738	
1954 UPWIND SP.txt	7/28/2017	1:19:03 PM	0115250211	7/28/2017	8:04:03 AM	21	-170.56	26	56	738	
1954 UPWIND SP.txt	7/28/2017	1:34:03 PM	0115250211	7/28/2017	8:04:03 AM	22	-171.31	25.9	57	738	

Summary of CAMP Monitoring

Beech and Bonaparte

Former Sperry Remington Site - North Portion
Elmira, New York

Unit Location	Record Date	Record Time	Unit Serial Number	Start Date	Start Time	Record #	Dust Concentration in µg/m^3	Temp	RHumidity	AtmoPressure in mm/Hg	Notes
1954 UPWIND SP.txt	7/28/2017	1:49:03 PM	0115250211	7/28/2017	8:04:03 AM	23	-169.13	25.6	58	738	
1954 UPWIND SP.txt	7/28/2017	2:04:03 PM	0115250211	7/28/2017	8:04:03 AM	24	-167.87	25	59	738	
1954 UPWIND SP.txt	7/28/2017	2:19:03 PM	0115250211	7/28/2017	8:04:03 AM	25	-166.94	24.4	61	738	
1954 UPWIND SP.txt	7/28/2017	2:34:03 PM	0115250211	7/28/2017	8:04:03 AM	26	-167.74	24.5	60	738	
1954 UPWIND SP.txt	7/28/2017	2:49:03 PM	0115250211	7/28/2017	8:04:03 AM	27	-170.89	24.8	58	736	
1954 UPWIND SP.txt	7/28/2017	3:04:03 PM	0115250211	7/28/2017	8:04:03 AM	28	-171.65	25	58	736	
1954 UPWIND SP.txt	7/28/2017	3:19:03 PM	0115250211	7/28/2017	8:04:03 AM	29	-174.07	25.3	57	736	
1954 UPWIND SP.txt	7/28/2017	3:34:03 PM	0115250211	7/28/2017	8:04:03 AM	30	-180.07	25.5	54	736	
1954 UPWIND SP.txt	7/28/2017	3:49:03 PM	0115250211	7/28/2017	8:04:03 AM	31	-177.12	25.1	55	736	
1954 UPWIND SP.txt	7/28/2017	4:04:03 PM	0115250211	7/28/2017	8:04:03 AM	32	-169.1	25.1	56	736	
1954 UPWIND SP.txt	7/28/2017	4:19:03 PM	0115250211	7/28/2017	8:04:03 AM	33	-173.84	25.1	55	736	
1954 UPWIND SP.txt	7/28/2017	4:34:03 PM	0115250211	7/28/2017	8:04:03 AM	34	-176.83	25.1	53	736	
2535 UPWIND SX.txt	7/28/2017	8:27:43 AM	CM15111015	7/28/2017	8:12:43 AM	1	-10.86	19.7	79	738	
2535 UPWIND SX.txt	7/28/2017	8:42:43 AM	CM15111015	7/28/2017	8:12:43 AM	2	-11.95	20.7	77	738	
2535 UPWIND SX.txt	7/28/2017	8:57:43 AM	CM15111015	7/28/2017	8:12:43 AM	3	-13.33	21.1	74	738	
2535 UPWIND SX.txt	7/28/2017	9:12:43 AM	CM15111015	7/28/2017	8:12:43 AM	4	-13.14	21.2	74	738	
2535 UPWIND SX.txt	7/28/2017	9:27:43 AM	CM15111015	7/28/2017	8:12:43 AM	5	-13.92	21.7	71	738	
2535 UPWIND SX.txt	7/28/2017	9:42:43 AM	CM15111015	7/28/2017	8:12:43 AM	6	-15.52	22.2	69	738	
2535 UPWIND SX.txt	7/28/2017	9:57:43 AM	CM15111015	7/28/2017	8:12:43 AM	7	-16.38	22.6	67	738	
2535 UPWIND SX.txt	7/28/2017	10:12:43 AM	CM15111015	7/28/2017	8:12:43 AM	8	-16.93	23.1	66	738	
2535 UPWIND SX.txt	7/28/2017	10:27:43 AM	CM15111015	7/28/2017	8:12:43 AM	9	-18.22	23.8	63	738	
2535 UPWIND SX.txt	7/28/2017	10:42:43 AM	CM15111015	7/28/2017	8:12:43 AM	10	-20.35	24.8	58	740	
2535 UPWIND SX.txt	7/28/2017	10:57:43 AM	CM15111015	7/28/2017	8:12:43 AM	11	-20.3	25.8	54	740	
2535 UPWIND SX.txt	7/28/2017	11:12:43 AM	CM15111015	7/28/2017	8:12:43 AM	12	-22.5	27.1	50	740	
2535 UPWIND SX.txt	7/28/2017	11:27:43 AM	CM15111015	7/28/2017	8:12:43 AM	13	-21.72	28.2	48	740	
2535 UPWIND SX.txt	7/28/2017	11:42:43 AM	CM15111015	7/28/2017	8:12:43 AM	14	-23.31	28.7	47	740	
2535 UPWIND SX.txt	7/28/2017	11:57:43 AM	CM15111015	7/28/2017	8:12:43 AM	15	-24.79	28.7	47	740	
2535 UPWIND SX.txt	7/28/2017	12:12:43 PM	CM15111015	7/28/2017	8:12:43 AM	16	-27.92	28.5	47	738	
2535 UPWIND SX.txt	7/28/2017	12:27:43 PM	CM15111015	7/28/2017	8:12:43 AM	17	-24.35	28.4	49	738	
2535 UPWIND SX.txt	7/28/2017	12:42:43 PM	CM15111015	7/28/2017	8:12:43 AM	18	-19.69	28.2	48	738	
2535 UPWIND SX.txt	7/28/2017	12:57:43 PM	CM15111015	7/28/2017	8:12:43 AM	19	-21.29	28.1	49	738	
2535 UPWIND SX.txt	7/28/2017	1:12:43 PM	CM15111015	7/28/2017	8:12:43 AM	20	-22.98	28.4	48	738	
2535 UPWIND SX.txt	7/28/2017	1:27:43 PM	CM15111015	7/28/2017	8:12:43 AM	21	-25.05	28.4	48	738	
2535 UPWIND SX.txt	7/28/2017	1:42:43 PM	CM15111015	7/28/2017	8:12:43 AM	22	-29.77	28	49	738	
2535 UPWIND SX.txt	7/28/2017	1:57:43 PM	CM15111015	7/28/2017	8:12:43 AM	23	-28.37	27.8	50	738	
2535 UPWIND SX.txt	7/28/2017	2:12:43 PM	CM15111015	7/28/2017	8:12:43 AM	24	-27.74	26.7	52	738	
2535 UPWIND SX.txt	7/28/2017	2:27:43 PM	CM15111015	7/28/2017	8:12:43 AM	25	-27.76	26.6	53	738	
2535 UPWIND SX.txt	7/28/2017	2:42:43 PM	CM15111015	7/28/2017	8:12:43 AM	26	-27.74	27.1	51	738	
2535 UPWIND SX.txt	7/28/2017	2:57:43 PM	CM15111015	7/28/2017	8:12:43 AM	27	-30.08	27.7	49	738	
2535 UPWIND SX.txt	7/28/2017	3:12:43 PM	CM15111015	7/28/2017	8:12:43 AM	28	-31.29	27.7	48	738	
2535 UPWIND SX.txt	7/28/2017	3:27:43 PM	CM15111015	7/28/2017	8:12:43 AM	29	-31.41	27.4	47	738	
2535 UPWIND SX.txt	7/28/2017	3:42:43 PM	CM15111015	7/28/2017	8:12:43 AM	30	-32.03	27.2	48	738	
2535 UPWIND SX.txt	7/28/2017	3:57:43 PM	CM15111015	7/28/2017	8:12:43 AM	31	-30.96	27.6	48	738	
2535 UPWIND SX.txt	7/28/2017	4:12:43 PM	CM15111015	7/28/2017	8:12:43 AM	32	-32.04	28	46	738	
2535 UPWIND SX.txt	7/28/2017	4:27:43 PM	CM15111015	7/28/2017	8:12:43 AM	33	-32.68	28	45	738	
2980 DW NE CORN SP.txt	7/28/2017	8:17:05 AM	CM15111014	7/28/2017	8:02:05 AM	1	-1.13	20.8	82	738	
2980 DW NE CORN SP.txt	7/28/2017	8:32:05 AM	CM15111014	7/28/2017	8:02:05 AM	2	0.42	22.1	78	740	
2980 DW NE CORN SP.txt	7/28/2017	8:47:05 AM	CM15111014	7/28/2017	8:02:05 AM	3	5.52	23	75	740	
2980 DW NE CORN SP.txt	7/28/2017	9:02:05 AM	CM15111014	7/28/2017	8:02:05 AM	4	7.66	23.4	73	740	
2980 DW NE CORN SP.txt	7/28/2017	9:17:05 AM	CM15111014	7/28/2017	8:02:05 AM	5	2.17	23.3	72	740	
2980 DW NE CORN SP.txt	7/28/2017	9:32:05 AM	CM15111014	7/28/2017	8:02:05 AM	6	-1.55	23.7	70	740	
2980 DW NE CORN SP.txt	7/28/2017	9:47:05 AM	CM15111014	7/28/2017	8:02:05 AM	7	-0.94	24.1	68	740	
2980 DW NE CORN SP.txt	7/28/2017	10:02:05 AM	CM15111014	7/28/2017	8:02:05 AM	8	-0.62	24.6	67	740	
2980 DW NE CORN SP.txt	7/28/2017	10:17:05 AM	CM15111014	7/28/2017	8:02:05 AM	9	-1.64	25.3	64	740	
2980 DW NE CORN SP.txt	7/28/2017	10:32:05 AM	CM15111014	7/28/2017	8:02:05 AM	10	-1.88	26.3	60	740	
2980 DW NE CORN SP.txt	7/28/2017	10:47:05 AM	CM15111014	7/28/2017	8:02:05 AM	11	7.02	27.4	55	740	
2980 DW NE CORN SP.txt	7/28/2017	11:02:05 AM	CM15111014	7/28/2017	8:02:05 AM	12	-3.79	28.8	52	740	
2980 DW NE CORN SP.txt	7/28/2017	11:17:05 AM	CM15111014	7/28/2017	8:02:05 AM	13	-3.77	30.5	47	740	
2980 DW NE CORN SP.txt	7/28/2017	11:32:05 AM	CM15111014	7/28/2017	8:02:05 AM	14	4.17	31.5	45	740	
2980 DW NE CORN SP.txt	7/28/2017	11:47:05 AM	CM15111014	7/28/2017	8:02:05 AM	15	-0.38	32	43	740	
2980 DW NE CORN SP.txt	7/28/2017	12:02:05 PM	CM15111014	7/28/2017	8:02:05 AM	16	-0.17	32	43	740	
2980 DW NE CORN SP.txt	7/28/2017	12:17:05 PM	CM15111014	7/28/2017	8:02:05 AM	17	-3.6	32.1	43	740	
2980 DW NE CORN SP.txt	7/28/2017	12:32:05 PM	CM15111014	7/28/2017	8:02:05 AM	18	-3.73	31.7	44	740	
2980 DW NE CORN SP.txt	7/28/2017	12:47:05 PM	CM15111014	7/28/2017	8:02:05 AM	19	-4.29	31	46	740	
2980 DW NE CORN SP.txt	7/28/2017	1:02:05 PM	CM15111014	7/28/2017	8:02:05 AM	20	-2.65	30.7	46	740	
2980 DW NE CORN SP.txt	7/28/2017	1:17:05 PM	CM15111014	7/28/2017	8:02:05 AM	21	4.93	30.4	46	738	
2980 DW NE CORN SP.txt	7/28/2017	1:32:05 PM	CM15111014	7/28/2017	8:02:05 AM	22	0.31	30.2	47	738	
2980 DW NE CORN SP.txt	7/28/2017	1:47:05 PM	CM15111014	7/28/2017	8:02:05 AM	23	1.95	30.3	47	738	
2980 DW NE CORN SP.txt	7/28/2017	2:02:05 PM	CM15111014	7/28/2017	8:02:05 AM	24	1.53	30	47	738	
2980 DW NE CORN SP.txt	7/28/2017	2:17:05 PM	CM15111014	7/28/2017	8:02:05 AM	25	-3.34	29.1	50	738	
2980 DW NE CORN SP.txt	7/28/2017	2:32:05 PM	CM15111014	7/28/2017	8:02:05 AM	26	-6.11	29.3	49	738	
2980 DW NE CORN SP.txt	7/28/2017	2:47:05 PM	CM15111014	7/28/2017	8:02:05 AM	27	-6.85	29.9	47	738	
2980 DW NE CORN SP.txt	7/28/2017	3:02:05 PM	CM15111014	7/28/2017	8:02:05 AM	28	-6.16	30.1	46	738	
2980 DW NE CORN SP.txt	7/28/2017	3:17:05 PM	CM15111014	7/28/2017	8:02:05 AM	29	7.11	30.1	46	738	
2980 DW NE CORN SP.txt	7/28/2017	3:32:05 PM	CM15111014	7/28/2017	8:02:05 AM	30	-3.44	29.8	45	738	
2980 DW NE CORN SP.txt	7/28/2017	3:47:05 PM	CM15111014	7/28/2017	8:02:05 AM	31	-4.38	29.1	47	738	
2980 DW NE CORN SP.txt	7/28/2017	4:02:05 PM	CM15111014	7/28/2017	8:02:05 AM	32	-0.22	29	48	738	
2980 DW NE CORN SP.txt	7/28/2017	4:17:05 PM	CM15111014	7/28/2017	8:02:05 AM	33	-2.67	29.3	46	738	
2980 DW NE CORN SP.txt	7/28/2017	4:32:05 PM	CM15111014	7/28/2017	8:02:05 AM	34	0.01	29.2	45	738	
1421 DW NW CORNER SX.txt	7/29/2017	7:40:06 AM	0115249975	7/29/2017	7:25:06 AM	1	-12.91	18.5	53	738	
1421 DW NW CORNER SX.txt	7/29/2017	7:55:06 AM	0115249975	7/29/2017	7:25:06 AM	2	-13.55	19.9	48	738	
1421 DW NW CORNER SX.txt	7/29/2017	8:10:06 AM	0115249975	7/29/2017	7:25:06 AM	3	-14.18	20.7	45	738	
1421 DW NW CORNER SX.txt	7/29/2017	8:25:06 AM	0115249975	7/29/2017	7:25:06 AM	4	-4.73	22.8	41	738	
1421 DW NW CORNER SX.txt	7/29/2017	8:40:06 AM	0115249975	7/29/2017	7:25:06 AM	5	-8.82	24.8	36	738	
1421 DW NW CORNER SX.txt	7/29/2017	8:55:06 AM	0115249975	7/29/2017	7:25:06 AM	6	-12.15	25.4	35	738	
1421 DW NW CORNER SX.txt	7/29/2017	9:10:06 AM	0115249975	7/29/2017	7:25:06 AM	7	-12.59	26.2	34	738	
1421 DW NW CORNER SX.txt	7/29/2017	9:25:06 AM	0115249975	7/29/2017	7:25:06 AM	8	-12.17	26.4	34	738	
1421 DW NW CORNER SX.txt	7/29/2017	9:40:06 AM	0115249975	7/29/2017	7:25:06 AM	9	-11.65	27.1	33	738	
1421 DW NW CORNER SX.txt	7/29/2017	9:55:06 AM	0115249975	7/29/2017	7:25:06 AM	10	-11.74	27.5	33	740	
1421 DW NW CORNER SX.txt	7/29/2017	10:10:06 AM	0115249975	7/29/2017	7:25:06 AM	11	-10.66	27.2	33	738	
1421 DW NW CORNER SX.txt	7/29/2017	10:25:06 AM	0115249975	7/29/2017	7:25:06 AM	12	-9.51	27.3	33	738	
1421 DW NW CORNER SX.txt	7/29/2017	10:40:06 AM	0115249975	7/29/2017	7:25:06 AM	13	1.23	27.4	33	738	
1421 DW NW CORNER SX.txt	7/29/2017	10:55:06 AM	0115249975	7/29/2017	7:25:06 AM	14	8.8	27.7	32	738	
1421 DW NW CORNER SX.txt	7/29/2017	11:10:06 AM	0115249975	7/29/2017	7:25:06 AM	15	-4.05	27.8	30	738	
1421 DW NW CORNER SX.txt	7/29/2017	11:25:06 AM	0115249975	7/29/2017	7:25:06 AM	16	-4.02	28.7	26	738	
1421 DW NW CORNER SX.txt	7/29/2017	11:40:06 AM	0115249975	7/29/2017	7:25:06 AM	17	-2.94	29.8	26	738	
1421 DW NW CORNER SX.txt	7/29/2017	11:55:06 AM	0115249975	7/29/2017	7:25:06 AM	18	7.55	29.5	26	738	
1421 DW NW CORNER SX.txt	7/29/2017	12:10:06 PM	0115249975	7/29/2017	7:25:06 AM	19	-9.81	27.7	27	738	
1421 DW NW CORNER SX.txt	7/29/2017	12:25:06 PM	0115249975	7/29/2017	7:25:06 AM	20	-12.84	26.5	27	738	
1421 DW NW CORNER SX.txt	7/29/2017	12:40:06 PM	0115249975	7/29/2017	7:25:06 AM	21	7.69	26.2	27	738	
1421 DW NW CORNER SX.txt	7/29/2017	12:55:06 PM	0115249975	7/29/2017	7:25:06 AM	22	9.17	25.9	28	738	
1421 DW NW CORNER SX.txt	7/29/2017	1:10:06 PM	0115249975	7/29/2017	7:25:06 AM	23	5.9	25.5	30	738	
1421 DW NW CORNER SX.txt	7/29/2017	1:25:06 PM	0115249975	7/29/2017	7:25:06 AM	24	-12.2	25.3	29	738	
1421 DW NW CORNER SX.txt	7/29/2017	1:40:06 PM	0115249975	7/29/2017	7:25:06 AM	25	8.69	25	31	738	
1421 DW NW CORNER SX.txt	7/29/2017	1:55:06 PM	0115249975	7/29/2017	7:25:06 AM	26	-3.49	24.8	31	738	
1421 DW NW CORNER SX.txt	7/29/2017	2:10:06 PM	0115249975	7/29/2017	7:25:06 AM	27	15.73	24.8	31	738	
1421 DW NW CORNER SX.txt	7/29/2017	2:25:06 PM	0115249975	7/29/2017	7:25:06 AM	28	-2.95	25.2	31	738	
1428 DW NE CORNER SX.txt	7/29/2017	7:37:03 AM	0115250007	7/29/2017	7:22:03 AM	1	-23.4	16.7	61	738	
1428 DW NE CORNER SX.txt	7/29/2017	7:52:03 AM	0115250007	7/29/2017	7:22:03 AM	2	-24.6	17.7	58	738	
1428 DW NE CORNER SX.txt	7/29/2017	8:07:03 AM	0115250007	7/29/2017	7:22:03 AM	3	-24.86	17.9	56	740	
1428 DW NE CORNER SX.txt	7/29/2017	8:22:03 AM	0115250007	7/29/2017	7:22:03 AM	4	-25.11	18.8	54	740	
1428 DW NE CORNER SX.txt	7/29/2017	8:37:03 AM	0115250007	7/29/2017	7:22:03 AM	5	-26.09	20.3	50	740	
1428 DW NE CORNER SX.txt	7/29/2017	8:52:03 AM	0115250007	7/29/2017	7:22:03 AM	6	-24.22	20.9	49	740	
1428 DW NE CORNER SX.txt	7/29/2017	9:07:03 AM	0115250007	7/29/2017	7:22:03 AM	7	-4.52	21.6	48	740	
1428 DW NE CORNER SX.txt	7/29/2017	9:22:03 AM	0115250007	7/29/2017	7:22:03 AM	8	-23.77	22	48	740	
1428 DW NE CORNER SX.txt	7/29/2017	9:37:03 AM	0115250007	7/29/2017	7:22:03 AM	9	-24.22	22.5	48	740	
1428 DW NE CORNER SX.txt	7/29/2017	9:52:03 AM	0115250007	7/29/2017	7:22:03 AM	10	-24.92	23.1	47	740	
1428 DW NE CORNER SX.txt	7/29/2017	10:07:03 AM	0115250007	7/29/2017	7:22:03 AM	11	-24.91	23.2	47	740	
1428 DW NE CORNER SX.txt	7/29/2017	10:22:03 AM	0115250007	7/29/2017	7:22:03 AM	12	-24.08	23.2	47	740	
1428 DW NE CORNER SX.txt	7/29/2017	10:37:03 AM	0115250007	7/29/2017	7:22:03 AM	13	-24.77	23.1	47	740	
1428 DW NE CORNER SX.txt	7/29/2017	10:52:03 AM	0115250007	7/29/2017	7:22:03 AM	14	-24.78	23.4	46	740	
1428 DW NE CORNER SX.txt	7/29/2017	11:07:03 AM	0115250007	7/29/2017	7:22:03 AM	15	-25.79	23.8	43	740	
1428 DW NE CORNER SX.txt	7/29/2017	11:22:03 AM	0115250007	7/29/2017	7:22:03 AM	16	-25.16	24.2	39	740	
1428 DW NE CORNER SX.txt	7/29/2017	11:37:03 AM	0115250007	7/29/2017	7:22:03 AM	17	-26.49	24.8	40	740	
1428 DW NE CORNER SX.txt	7/29/2017	11:52:03 AM	0115250007	7/29/2017	7:22:03 AM	18	-26.49	25.7	39	740	

Summary of CAMP Monitoring

Former Sperry Remington Site - North Portion
Elmira, New York

Unit Location	Record Date	Record Time	Unit Serial Number	Start Date	Start Time	Record #	Dust Concentration in µg/m^3	Temp	RHumidity	AtmoPressure in mm/Hg	Notes
1428 DW NE CORNER SX.txt	7/29/2017	12:07:03 PM	0115250007	7/29/2017	7:22:03 AM	19	-26.64	25.6	37	740	
1428 DW NE CORNER SX.txt	7/29/2017	12:22:03 PM	0115250007	7/29/2017	7:22:03 AM	20	-27.08	25.3	36	740	
1428 DW NE CORNER SX.txt	7/29/2017	12:37:03 PM	0115250007	7/29/2017	7:22:03 AM	21	-26.95	25.7	35	740	
1428 DW NE CORNER SX.txt	7/29/2017	12:52:03 PM	0115250007	7/29/2017	7:22:03 AM	22	-26.81	26.1	35	740	
1428 DW NE CORNER SX.txt	7/29/2017	1:07:03 PM	0115250007	7/29/2017	7:22:03 AM	23	-27.12	26.2	35	740	
1428 DW NE CORNER SX.txt	7/29/2017	1:22:03 PM	0115250007	7/29/2017	7:22:03 AM	24	-26.87	26.4	34	740	
1428 DW NE CORNER SX.txt	7/29/2017	1:37:03 PM	0115250007	7/29/2017	7:22:03 AM	25	-26.72	26.2	34	740	
1428 DW NE CORNER SX.txt	7/29/2017	1:52:03 PM	0115250007	7/29/2017	7:22:03 AM	26	-26.79	26.3	35	740	
1428 DW NE CORNER SX.txt	7/29/2017	2:07:03 PM	0115250007	7/29/2017	7:22:03 AM	27	-26.86	26.6	34	740	
1428 DW NE CORNER SX.txt	7/29/2017	2:22:03 PM	0115250007	7/29/2017	7:22:03 AM	28	-26.78	27.2	33	740	
1428 DW NE CORNER SX.txt	7/29/2017	2:37:03 PM	0115250007	7/29/2017	7:22:03 AM	29	-26.8	27.9	33	740	
1429 DW N FENCE SX.txt	7/29/2017	7:36:12 AM	0115250009	7/29/2017	7:21:12 AM	1	-15.14	16.1	61	738	
1429 DW N FENCE SX.txt	7/29/2017	7:51:12 AM	0115250009	7/29/2017	7:21:12 AM	2	-15.01	15.7	63	738	
1429 DW N FENCE SX.txt	7/29/2017	8:06:12 AM	0115250009	7/29/2017	7:21:12 AM	3	-15.47	15.5	62	738	
1429 DW N FENCE SX.txt	7/29/2017	8:21:12 AM	0115250009	7/29/2017	7:21:12 AM	4	-8.64	15.9	61	738	
1429 DW N FENCE SX.txt	7/29/2017	8:36:12 AM	0115250009	7/29/2017	7:21:12 AM	5	-10.49	16.8	59	738	
1429 DW N FENCE SX.txt	7/29/2017	8:51:12 AM	0115250009	7/29/2017	7:21:12 AM	6	-14.61	17.3	58	738	
1429 DW N FENCE SX.txt	7/29/2017	9:06:12 AM	0115250009	7/29/2017	7:21:12 AM	7	-14.95	17.9	57	738	
1429 DW N FENCE SX.txt	7/29/2017	9:21:12 AM	0115250009	7/29/2017	7:21:12 AM	8	-15.71	18.3	57	738	
1429 DW N FENCE SX.txt	7/29/2017	9:36:12 AM	0115250009	7/29/2017	7:21:12 AM	9	-15.27	19.1	55	740	
1429 DW N FENCE SX.txt	7/29/2017	9:51:12 AM	0115250009	7/29/2017	7:21:12 AM	10	-15.46	19.7	53	740	
1429 DW N FENCE SX.txt	7/29/2017	10:06:12 AM	0115250009	7/29/2017	7:21:12 AM	11	-14.27	20	52	740	
2535 UW FENCE SX.txt	7/29/2017	7:45:50 AM	CM15111015	7/29/2017	7:30:50 AM	1	-51.24	17.2	56	738	
2535 UW FENCE SX.txt	7/29/2017	8:00:50 AM	CM15111015	7/29/2017	7:30:50 AM	2	-50.14	16.6	57	738	
2535 UW FENCE SX.txt	7/29/2017	8:15:50 AM	CM15111015	7/29/2017	7:30:50 AM	3	-50.05	16.9	56	740	
2535 UW FENCE SX.txt	7/29/2017	8:30:50 AM	CM15111015	7/29/2017	7:30:50 AM	4	-48.51	18.2	52	740	
2535 UW FENCE SX.txt	7/29/2017	8:45:50 AM	CM15111015	7/29/2017	7:30:50 AM	5	-50.99	19	51	740	
2535 UW FENCE SX.txt	7/29/2017	9:00:50 AM	CM15111015	7/29/2017	7:30:50 AM	6	-50.95	19.8	50	740	
2535 UW FENCE SX.txt	7/29/2017	9:15:50 AM	CM15111015	7/29/2017	7:30:50 AM	7	-51.21	20.5	49	740	
2535 UW FENCE SX.txt	7/29/2017	9:30:50 AM	CM15111015	7/29/2017	7:30:50 AM	8	-45.84	21	48	740	
2535 UW FENCE SX.txt	7/29/2017	9:45:50 AM	CM15111015	7/29/2017	7:30:50 AM	9	-48.2	21.8	46	740	
2535 UW FENCE SX.txt	7/29/2017	10:00:50 AM	CM15111015	7/29/2017	7:30:50 AM	10	-22.55	22.4	45	740	
2535 UW FENCE SX.txt	7/29/2017	10:15:50 AM	CM15111015	7/29/2017	7:30:50 AM	11	-41.41	23	44	740	
2535 UW FENCE SX.txt	7/29/2017	10:30:50 AM	CM15111015	7/29/2017	7:30:50 AM	12	-32.92	23.3	43	740	
2535 UW FENCE SX.txt	7/29/2017	10:45:50 AM	CM15111015	7/29/2017	7:30:50 AM	13	-34.03	24.1	41	740	
2535 UW FENCE SX.txt	7/29/2017	11:00:50 AM	CM15111015	7/29/2017	7:30:50 AM	14	-36.87	24.4	38	740	
2535 UW FENCE SX.txt	7/29/2017	11:15:50 AM	CM15111015	7/29/2017	7:30:50 AM	15	-15.93	24.6	35	740	
2535 UW FENCE SX.txt	7/29/2017	11:30:50 AM	CM15111015	7/29/2017	7:30:50 AM	16	-34.41	24.8	33	740	
2535 UW FENCE SX.txt	7/29/2017	11:45:50 AM	CM15111015	7/29/2017	7:30:50 AM	17	-50.51	25.8	34	740	
2535 UW FENCE SX.txt	7/29/2017	12:00:50 PM	CM15111015	7/29/2017	7:30:50 AM	18	-45.59	25.6	33	740	
2535 UW FENCE SX.txt	7/29/2017	12:15:50 PM	CM15111015	7/29/2017	7:30:50 AM	19	-36.23	24.9	32	740	
2535 UW FENCE SX.txt	7/29/2017	12:30:50 PM	CM15111015	7/29/2017	7:30:50 AM	20	-33.76	25.1	31	740	
2535 UW FENCE SX.txt	7/29/2017	12:45:50 PM	CM15111015	7/29/2017	7:30:50 AM	21	-34.58	25.4	31	740	
2535 UW FENCE SX.txt	7/29/2017	1:00:50 PM	CM15111015	7/29/2017	7:30:50 AM	22	-30.37	25.6	31	740	
2535 UW FENCE SX.txt	7/29/2017	1:15:50 PM	CM15111015	7/29/2017	7:30:50 AM	23	-38.01	25.8	31	740	
2535 UW FENCE SX.txt	7/29/2017	1:30:50 PM	CM15111015	7/29/2017	7:30:50 AM	24	-19.08	25.4	31	740	
2535 UW FENCE SX.txt	7/29/2017	1:45:50 PM	CM15111015	7/29/2017	7:30:50 AM	25	-20.19	25.6	32	740	
2535 UW FENCE SX.txt	7/29/2017	2:00:50 PM	CM15111015	7/29/2017	7:30:50 AM	26	-35.8	25.9	31	740	
2535 UW FENCE SX.txt	7/29/2017	2:15:50 PM	CM15111015	7/29/2017	7:30:50 AM	27	-38.98	26.3	30	740	
2535 UW FENCE SX.txt	7/29/2017	2:30:50 PM	CM15111015	7/29/2017	7:30:50 AM	28	-14.45	27	30	740	
818 DW NW FENCE SX.txt	7/29/2017	7:41:17 AM	0115249311	7/29/2017	7:26:17 AM	1	-8.5	18.5	56	738	
818 DW NW FENCE SX.txt	7/29/2017	7:56:17 AM	0115249311	7/29/2017	7:26:17 AM	2	-6	20.4	50	738	
818 DW NW FENCE SX.txt	7/29/2017	8:11:17 AM	0115249311	7/29/2017	7:26:17 AM	3	-9.31	22.2	46	738	
818 DW NW FENCE SX.txt	7/29/2017	8:26:17 AM	0115249311	7/29/2017	7:26:17 AM	4	-5	25.2	39	738	
818 DW NW FENCE SX.txt	7/29/2017	8:41:17 AM	0115249311	7/29/2017	7:26:17 AM	5	-8.66	27	36	738	
818 DW NW FENCE SX.txt	7/29/2017	8:56:17 AM	0115249311	7/29/2017	7:26:17 AM	6	-9.71	28	33	738	
818 DW NW FENCE SX.txt	7/29/2017	9:11:17 AM	0115249311	7/29/2017	7:26:17 AM	7	-9.88	29.5	32	738	
818 DW NW FENCE SX.txt	7/29/2017	9:26:17 AM	0115249311	7/29/2017	7:26:17 AM	8	-9.38	30.6	31	740	
818 DW NW FENCE SX.txt	7/29/2017	9:41:17 AM	0115249311	7/29/2017	7:26:17 AM	9	-9.48	32	29	740	
818 DW NW FENCE SX.txt	7/29/2017	9:56:17 AM	0115249311	7/29/2017	7:26:17 AM	10	-9.69	32.9	28	740	
818 DW NW FENCE SX.txt	7/29/2017	10:11:17 AM	0115249311	7/29/2017	7:26:17 AM	11	-8.49	33	27	740	
818 DW NW FENCE SX.txt	7/29/2017	10:26:17 AM	0115249311	7/29/2017	7:26:17 AM	12	-7.17	33.2	27	740	
818 DW NW FENCE SX.txt	7/29/2017	10:41:17 AM	0115249311	7/29/2017	7:26:17 AM	13	-6.42	33.4	27	740	
818 DW NW FENCE SX.txt	7/29/2017	10:56:17 AM	0115249311	7/29/2017	7:26:17 AM	14	-7.6	33.3	26	740	
818 DW NW FENCE SX.txt	7/29/2017	11:11:17 AM	0115249311	7/29/2017	7:26:17 AM	15	-1.09	32.5	25	740	
818 DW NW FENCE SX.txt	7/29/2017	11:26:17 AM	0115249311	7/29/2017	7:26:17 AM	16	-3.33	31	25	740	
818 DW NW FENCE SX.txt	7/29/2017	11:41:17 AM	0115249311	7/29/2017	7:26:17 AM	17	-5.13	31	28	740	
818 DW NW FENCE SX.txt	7/29/2017	11:56:17 AM	0115249311	7/29/2017	7:26:17 AM	18	-6.55	31.3	27	738	
818 DW NW FENCE SX.txt	7/29/2017	12:11:17 PM	0115249311	7/29/2017	7:26:17 AM	19	-10.12	30	27	738	
818 DW NW FENCE SX.txt	7/29/2017	12:26:17 PM	0115249311	7/29/2017	7:26:17 AM	20	-10.59	29.4	26	738	
818 DW NW FENCE SX.txt	7/29/2017	12:41:17 PM	0115249311	7/29/2017	7:26:17 AM	21	-5.47	29.4	26	738	
818 DW NW FENCE SX.txt	7/29/2017	12:56:17 PM	0115249311	7/29/2017	7:26:17 AM	22	-4.55	29.1	26	738	
818 DW NW FENCE SX.txt	7/29/2017	1:11:17 PM	0115249311	7/29/2017	7:26:17 AM	23	-6.58	28.7	27	738	
818 DW NW FENCE SX.txt	7/29/2017	1:26:17 PM	0115249311	7/29/2017	7:26:17 AM	24	-5.32	28.1	27	738	
818 DW NW FENCE SX.txt	7/29/2017	1:41:17 PM	0115249311	7/29/2017	7:26:17 AM	25	-4.19	27.6	30	738	
818 DW NW FENCE SX.txt	7/29/2017	1:56:17 PM	0115249311	7/29/2017	7:26:17 AM	26	-6.8	27.9	30	738	
818 DW NW FENCE SX.txt	7/29/2017	2:11:17 PM	0115249311	7/29/2017	7:26:17 AM	27	-6.02	28.1	29	738	
818 DW NW FENCE SX.txt	7/29/2017	2:26:17 PM	0115249311	7/29/2017	7:26:17 AM	28	-7.83	28.5	27	738	
1421 DW NW CORNER SX.txt	7/31/2017	7:53:25 AM	0115249975	7/31/2017	7:38:25 AM	1	-36.63	19.2	65	744	
1421 DW NW CORNER SX.txt	7/31/2017	8:08:25 AM	0115249975	7/31/2017	7:38:25 AM	2	-42.29	23.7	52	744	
1421 DW NW CORNER SX.txt	7/31/2017	8:23:25 AM	0115249975	7/31/2017	7:38:25 AM	3	-44.1	27.1	43	744	
1421 DW NW CORNER SX.txt	7/31/2017	8:38:25 AM	0115249975	7/31/2017	7:38:25 AM	4	-43.69	29.5	38	744	
1421 DW NW CORNER SX.txt	7/31/2017	8:53:25 AM	0115249975	7/31/2017	7:38:25 AM	5	-43.38	31.2	34	744	
1421 DW NW CORNER SX.txt	7/31/2017	9:08:25 AM	0115249975	7/31/2017	7:38:25 AM	6	-43.83	32.8	32	744	
1421 DW NW CORNER SX.txt	7/31/2017	9:23:25 AM	0115249975	7/31/2017	7:38:25 AM	7	-43.12	34.2	33	744	
1421 DW NW CORNER SX.txt	7/31/2017	9:38:25 AM	0115249975	7/31/2017	7:38:25 AM	8	-38.57	35.1	30	744	
1421 DW NW CORNER SX.txt	7/31/2017	9:53:25 AM	0115249975	7/31/2017	7:38:25 AM	9	-20.33	35.9	27	744	
1421 DW NW CORNER SX.txt	7/31/2017	10:08:25 AM	0115249975	7/31/2017	7:38:25 AM	10	-43.67	36.7	25	744	
1421 DW NW CORNER SX.txt	7/31/2017	10:23:25 AM	0115249975	7/31/2017	7:38:25 AM	11	-42.26	36.4	24	744	
1421 DW NW CORNER SX.txt	7/31/2017	10:38:25 AM	0115249975	7/31/2017	7:38:25 AM	12	-35.76	35.9	24	744	
1421 DW NW CORNER SX.txt	7/31/2017	10:53:25 AM	0115249975	7/31/2017	7:38:25 AM	13	-38.87	35.4	25	744	
1421 DW NW CORNER SX.txt	7/31/2017	11:08:25 AM	0115249975	7/31/2017	7:38:25 AM	14	-41.22	35.1	25	744	
1421 DW NW CORNER SX.txt	7/31/2017	11:23:25 AM	0115249975	7/31/2017	7:38:25 AM	15	-42.8	34.6	26	744	
1421 DW NW CORNER SX.txt	7/31/2017	11:38:25 AM	0115249975	7/31/2017	7:38:25 AM	16	-34.57	34.5	29	744	
1421 DW NW CORNER SX.txt	7/31/2017	11:53:25 AM	0115249975	7/31/2017	7:38:25 AM	17	-43.21	34.6	28	744	
1421 DW NW CORNER SX.txt	7/31/2017	12:08:25 PM	0115249975	7/31/2017	7:38:25 AM	18	-37.89	34.6	29	744	
1421 DW NW CORNER SX.txt	7/31/2017	12:23:25 PM	0115249975	7/31/2017	7:38:25 AM	19	-43.43	34.6	29	744	
1421 DW NW CORNER SX.txt	7/31/2017	12:38:25 PM	0115249975	7/31/2017	7:38:25 AM	20	-41.01	34.2	31	744	
1421 DW NW CORNER SX.txt	7/31/2017	12:53:25 PM	0115249975	7/31/2017	7:38:25 AM	21	-35.27	33.8	31	742	
1421 DW NW CORNER SX.txt	7/31/2017	1:08:25 PM	0115249975	7/31/2017	7:38:25 AM	22	-40.88	33.1	29	742	
1421 DW NW CORNER SX.txt	7/31/2017	1:23:25 PM	0115249975	7/31/2017	7:38:25 AM	23	-36.61	32.5	30	742	
1421 DW NW CORNER SX.txt	7/31/2017	1:38:25 PM	0115249975	7/31/2017	7:38:25 AM	24	-42.75	32.5	30	742	
1421 DW NW CORNER SX.txt	7/31/2017	1:53:25 PM	0115249975	7/31/2017	7:38:25 AM	25	-42.81	32.6	29	742	
1421 DW NW CORNER SX.txt	7/31/2017	2:08:25 PM	0115249975	7/31/2017	7:38:25 AM	26	-37.81	33	28	742	
1421 DW NW CORNER SX.txt	7/31/2017	2:23:25 PM	0115249975	7/31/2017	7:38:25 AM	27	-31.8	33.4	28	742	
1421 DW NW CORNER SX.txt	7/31/2017	2:38:25 PM	0115249975	7/31/2017	7:38:25 AM	28	-33.06	33.6	28	742	
1421 DW NW CORNER SX.txt	7/31/2017	2:53:25 PM	0115249975	7/31/2017	7:38:25 AM	29	-42.39	33.9	28	742	
1421 DW NW CORNER SX.txt	7/31/2017	3:08:25 PM	0115249975	7/31/2017	7:38:25 AM	30	-36.46	34.2	28	742	
1421 DW NW CORNER SX.txt	7/31/2017	3:23:25 PM	0115249975	7/31/2017	7:38:25 AM	31	39.34	34.5	29	742	
1421 DW NW CORNER SX.txt	7/31/2017	3:38:25 PM	0115249975	7/31/2017	7:38:25 AM	32	-37.06	35	28	742	
1421 DW NW CORNER SX.txt	7/31/2017	3:53:25 PM	0115249975	7/31/2017	7:38:25 AM	33	-40.5	35.8	25	742	
1421 DW NW CORNER SX.txt	7/31/2017	4:08:25 PM	0115249975	7/31/2017	7:38:25 AM	34	-43.18	35.6	26	742	
1421 DW NW CORNER SX.txt	7/31/2017	4:23:25 PM	0115249975	7/31/2017	7:38:25 AM	35	-40.52	35.6	26	742	
1421 DW NW CORNER SX.txt	7/31/2017	4:38:25 PM	0115249975	7/31/2017	7:38:25 AM	36	-14.86	35	28	742	
1421 DW NW CORNER SX.txt	7/31/2017	4:53:25 PM	0115249975	7/31/2017	7:38:25 AM	37	-42.72	34	30	742	
1422 DW NE FENCE SP.txt	7/31/2017	8:05:13 AM	0115249980	7/31/2017	7:50:13 AM	1	12.05	16.5	73	744	
1422 DW NE FENCE SP.txt	7/31/2017	8:20:13 AM	0115249980	7/31/2017	7:50:13 AM	2	-0.38	16.1	76	744	
1422 DW NE FENCE SP.txt	7/31/2017	8:35:13 AM	0115249980	7/31/2017	7:50:13 AM	3	-0.24	16.1	77	744	
1422 DW NE FENCE SP.txt	7/31/2017	8:50:13 AM	0115249980	7/31/2017	7:50:13 AM	4	1.61	16.3	79	744	
1422 DW NE FENCE SP.txt	7/31/2017	9:05:13 AM	0115249980	7/31/2017	7:50:13 AM	5	-0.66	16.9	79	744	
1422 DW NE FENCE SP.txt	7/31/2017	9:20:13 AM	0115249980	7/31/2017	7:50:13 AM	6	-0.04	17.5	78	744	
1422 DW NE FENCE SP.txt	7/31/2017	9:35:13 AM	0115249980	7/31/2017	7:50:13 AM	7	15.71	18	76	744	
1422 DW NE FENCE SP.txt	7/31/2017	9:50:13 AM	0115249980	7/31/2017	7:50:13 AM	8	-0.38	18.6	73	744	
1422 DW NE FENCE SP.txt	7/31/2017	10:05:13 AM	0115249980	7/31/2017	7:50:13 AM	9	0.48	19.3	72	744	
1422 DW NE FENCE SP.txt	7/31/2017	10:20:13 AM	0115249980	7/31/2017	7:50:13 AM	10	3.1	20	63	744	

Summary of CAMP Monitoring

Beech and Bonaparte

Former Sperry Remington Site - North Portion
Elmira, New York

Unit Location	Record Date	Record Time	Unit Serial Number	Start Date	Start Time	Record #	Dust Concentration in µg/m^3	Temp	RHumidity	AtmoPressure in mm/Hg	Notes
1422 DW NE FENCE SP.txt	7/31/2017	10:35:13 AM	0115249980	7/31/2017	7:50:13 AM	11	-2.21	20.7	60	744	
1422 DW NE FENCE SP.txt	7/31/2017	10:50:13 AM	0115249980	7/31/2017	7:50:13 AM	12	5.65	21.4	55	744	
1422 DW NE FENCE SP.txt	7/31/2017	11:05:13 AM	0115249980	7/31/2017	7:50:13 AM	13	-2.7	21.9	52	744	
1422 DW NE FENCE SP.txt	7/31/2017	11:20:13 AM	0115249980	7/31/2017	7:50:13 AM	14	22.37	22.4	51	744	
1422 DW NE FENCE SP.txt	7/31/2017	11:35:13 AM	0115249980	7/31/2017	7:50:13 AM	15	30.02	23	50	744	
1422 DW NE FENCE SP.txt	7/31/2017	11:50:13 AM	0115249980	7/31/2017	7:50:13 AM	16	-2.87	23.4	50	744	
1422 DW NE FENCE SP.txt	7/31/2017	12:05:13 PM	0115249980	7/31/2017	7:50:13 AM	17	22.46	23.8	49	742	
1422 DW NE FENCE SP.txt	7/31/2017	12:20:13 PM	0115249980	7/31/2017	7:50:13 AM	18	-2.59	24.2	50	742	
1422 DW NE FENCE SP.txt	7/31/2017	12:35:13 PM	0115249980	7/31/2017	7:50:13 AM	19	2.51	24.7	48	742	
1422 DW NE FENCE SP.txt	7/31/2017	12:50:13 PM	0115249980	7/31/2017	7:50:13 AM	20	16.56	25.1	48	742	
1422 DW NE FENCE SP.txt	7/31/2017	1:05:13 PM	0115249980	7/31/2017	7:50:13 AM	21	-1.36	25.4	47	742	
1422 DW NE FENCE SP.txt	7/31/2017	1:20:13 PM	0115249980	7/31/2017	7:50:13 AM	22	77.55	25.9	46	742	
1422 DW NE FENCE SP.txt	7/31/2017	1:35:13 PM	0115249980	7/31/2017	7:50:13 AM	23	151.17	26.4	44	742	
1422 DW NE FENCE SP.txt	7/31/2017	1:50:13 PM	0115249980	7/31/2017	7:50:13 AM	24	57.21	27.1	42	742	
1422 DW NE FENCE SP.txt	7/31/2017	2:05:13 PM	0115249980	7/31/2017	7:50:13 AM	25	11.82	27.6	41	742	
1422 DW NE FENCE SP.txt	7/31/2017	2:20:13 PM	0115249980	7/31/2017	7:50:13 AM	26	10.05	28.3	39	742	
1422 DW NE FENCE SP.txt	7/31/2017	2:35:13 PM	0115249980	7/31/2017	7:50:13 AM	27	1.64	29.6	36	742	
1422 DW NE FENCE SP.txt	7/31/2017	2:50:13 PM	0115249980	7/31/2017	7:50:13 AM	28	33.69	30.7	34	742	
1422 DW NE FENCE SP.txt	7/31/2017	3:05:13 PM	0115249980	7/31/2017	7:50:13 AM	29	90.18	32	31	742	
1422 DW NE FENCE SP.txt	7/31/2017	3:20:13 PM	0115249980	7/31/2017	7:50:13 AM	30	17.05	32.8	29	742	
1422 DW NE FENCE SP.txt	7/31/2017	3:35:13 PM	0115249980	7/31/2017	7:50:13 AM	31	19.34	33.8	28	742	
1422 DW NE FENCE SP.txt	7/31/2017	3:50:13 PM	0115249980	7/31/2017	7:50:13 AM	32	325.95	34.7	27	742	
1422 DW NE FENCE SP.txt	7/31/2017	4:05:13 PM	0115249980	7/31/2017	7:50:13 AM	33	25.57	36.1	25	742	
1422 DW NE FENCE SP.txt	7/31/2017	4:20:13 PM	0115249980	7/31/2017	7:50:13 AM	34	31.39	36.3	25	742	
1422 DW NE FENCE SP.txt	7/31/2017	4:35:13 PM	0115249980	7/31/2017	7:50:13 AM	35	71.34	35.4	26	742	
1422 DW NE FENCE SP.txt	7/31/2017	4:50:13 PM	0115249980	7/31/2017	7:50:13 AM	36	35.97	33.1	30	742	
1428 DW NE CORNER SX.txt	7/31/2017	7:55:17 AM	0115250007	7/31/2017	7:40:17 AM	1	-23.45	17.6	73	744	
1428 DW NE CORNER SX.txt	7/31/2017	8:10:17 AM	0115250007	7/31/2017	7:40:17 AM	2	-26.71	19.9	67	744	
1428 DW NE CORNER SX.txt	7/31/2017	8:25:17 AM	0115250007	7/31/2017	7:40:17 AM	3	-30.67	22.3	60	744	
1428 DW NE CORNER SX.txt	7/31/2017	8:40:17 AM	0115250007	7/31/2017	7:40:17 AM	4	-32.59	24.2	55	744	
1428 DW NE CORNER SX.txt	7/31/2017	8:55:17 AM	0115250007	7/31/2017	7:40:17 AM	5	-33.77	25.5	53	744	
1428 DW NE CORNER SX.txt	7/31/2017	9:10:17 AM	0115250007	7/31/2017	7:40:17 AM	6	-35.21	27.2	49	744	
1428 DW NE CORNER SX.txt	7/31/2017	9:25:17 AM	0115250007	7/31/2017	7:40:17 AM	7	-35.24	28.9	45	744	
1428 DW NE CORNER SX.txt	7/31/2017	9:40:17 AM	0115250007	7/31/2017	7:40:17 AM	8	-30.8	30.5	42	744	
1428 DW NE CORNER SX.txt	7/31/2017	9:55:17 AM	0115250007	7/31/2017	7:40:17 AM	9	-36.79	31.8	39	744	
1428 DW NE CORNER SX.txt	7/31/2017	10:10:17 AM	0115250007	7/31/2017	7:40:17 AM	10	-36.85	33.1	36	744	
1428 DW NE CORNER SX.txt	7/31/2017	10:25:17 AM	0115250007	7/31/2017	7:40:17 AM	11	-35.5	33.9	33	744	
1428 DW NE CORNER SX.txt	7/31/2017	10:40:17 AM	0115250007	7/31/2017	7:40:17 AM	12	-35.86	34.8	31	744	
1428 DW NE CORNER SX.txt	7/31/2017	10:55:17 AM	0115250007	7/31/2017	7:40:17 AM	13	-34.76	35.3	29	744	
1428 DW NE CORNER SX.txt	7/31/2017	11:10:17 AM	0115250007	7/31/2017	7:40:17 AM	14	-35.71	36	28	744	
1428 DW NE CORNER SX.txt	7/31/2017	11:25:17 AM	0115250007	7/31/2017	7:40:17 AM	15	-35.34	36.5	28	744	
1428 DW NE CORNER SX.txt	7/31/2017	11:40:17 AM	0115250007	7/31/2017	7:40:17 AM	16	-33.45	36.6	28	744	
1428 DW NE CORNER SX.txt	7/31/2017	11:55:17 AM	0115250007	7/31/2017	7:40:17 AM	17	-36.16	37	28	744	
1428 DW NE CORNER SX.txt	7/31/2017	12:10:17 PM	0115250007	7/31/2017	7:40:17 AM	18	-33.18	37.2	28	744	
1428 DW NE CORNER SX.txt	7/31/2017	12:25:17 PM	0115250007	7/31/2017	7:40:17 AM	19	-36.33	37.3	29	744	
1428 DW NE CORNER SX.txt	7/31/2017	12:40:17 PM	0115250007	7/31/2017	7:40:17 AM	20	-35.39	37.6	28	744	
1428 DW NE CORNER SX.txt	7/31/2017	12:55:17 PM	0115250007	7/31/2017	7:40:17 AM	21	-31.29	37.5	28	744	
1428 DW NE CORNER SX.txt	7/31/2017	1:10:17 PM	0115250007	7/31/2017	7:40:17 AM	22	-33.68	37.4	28	744	
1428 DW NE CORNER SX.txt	7/31/2017	1:25:17 PM	0115250007	7/31/2017	7:40:17 AM	23	-34.19	37.3	28	744	
1428 DW NE CORNER SX.txt	7/31/2017	1:40:17 PM	0115250007	7/31/2017	7:40:17 AM	24	-32.68	37.4	28	744	
1428 DW NE CORNER SX.txt	7/31/2017	1:55:17 PM	0115250007	7/31/2017	7:40:17 AM	25	-35.6	37.5	28	744	
1428 DW NE CORNER SX.txt	7/31/2017	2:10:17 PM	0115250007	7/31/2017	7:40:17 AM	26	-31.88	37.7	27	744	
1428 DW NE CORNER SX.txt	7/31/2017	2:25:17 PM	0115250007	7/31/2017	7:40:17 AM	27	-35.77	38	26	744	
1428 DW NE CORNER SX.txt	7/31/2017	2:40:17 PM	0115250007	7/31/2017	7:40:17 AM	28	-33.82	38.2	26	744	
1428 DW NE CORNER SX.txt	7/31/2017	2:55:17 PM	0115250007	7/31/2017	7:40:17 AM	29	-36.39	38.4	26	744	
1428 DW NE CORNER SX.txt	7/31/2017	3:10:17 PM	0115250007	7/31/2017	7:40:17 AM	30	-32.43	38.4	25	744	
1428 DW NE CORNER SX.txt	7/31/2017	3:25:17 PM	0115250007	7/31/2017	7:40:17 AM	31	-29.44	38.1	25	744	
1428 DW NE CORNER SX.txt	7/31/2017	3:40:17 PM	0115250007	7/31/2017	7:40:17 AM	32	-31.6	37.2	26	742	
1428 DW NE CORNER SX.txt	7/31/2017	3:55:17 PM	0115250007	7/31/2017	7:40:17 AM	33	-35.99	36.2	28	742	
1428 DW NE CORNER SX.txt	7/31/2017	4:10:17 PM	0115250007	7/31/2017	7:40:17 AM	34	-36.39	35.1	29	742	
1428 DW NE CORNER SX.txt	7/31/2017	4:25:17 PM	0115250007	7/31/2017	7:40:17 AM	35	-34.55	34.4	30	742	
1428 DW NE CORNER SX.txt	7/31/2017	4:40:17 PM	0115250007	7/31/2017	7:40:17 AM	36	-33.62	33.6	32	742	
1428 DW NE CORNER SX.txt	7/31/2017	4:55:17 PM	0115250007	7/31/2017	7:40:17 AM	37	-34.91	33.2	33	742	
1429 DW CENTER FENCE SX 1.txt	7/31/2017	7:52:59 AM	0115250009	7/31/2017	7:37:59 AM	1	-11.86	17.3	72	744	
1429 DW CENTER FENCE SX 1.txt	7/31/2017	8:07:59 AM	0115250009	7/31/2017	7:37:59 AM	2	-10.76	17.3	73	744	
1429 DW CENTER FENCE SX 1.txt	7/31/2017	8:22:59 AM	0115250009	7/31/2017	7:37:59 AM	3	-12.59	17.3	74	744	
1429 DW CENTER FENCE SX 1.txt	7/31/2017	8:37:59 AM	0115250009	7/31/2017	7:37:59 AM	4	-12.54	17.7	75	744	
1429 DW CENTER FENCE SX 1.txt	7/31/2017	8:52:59 AM	0115250009	7/31/2017	7:37:59 AM	5	-11.62	18.6	74	744	
1429 DW CENTER FENCE SX 1.txt	7/31/2017	9:07:59 AM	0115250009	7/31/2017	7:37:59 AM	6	-14.69	19.4	71	744	
1429 DW CENTER FENCE SX 1.txt	7/31/2017	9:22:59 AM	0115250009	7/31/2017	7:37:59 AM	7	-15.44	20.2	67	744	
1429 DW CENTER FENCE SX 2.txt	7/31/2017	1:49:21 PM	0115250009	7/31/2017	1:34:21 PM	1	-17.86	32.7	36	742	
1429 DW CENTER FENCE SX 2.txt	7/31/2017	2:04:21 PM	0115250009	7/31/2017	1:34:21 PM	2	-14.59	33.6	30	742	
1429 DW CENTER FENCE SX 2.txt	7/31/2017	2:19:21 PM	0115250009	7/31/2017	1:34:21 PM	3	-20.82	34.6	28	742	
1429 DW CENTER FENCE SX 2.txt	7/31/2017	2:34:21 PM	0115250009	7/31/2017	1:34:21 PM	4	-7.44	35.4	27	742	
1429 DW CENTER FENCE SX 2.txt	7/31/2017	2:49:21 PM	0115250009	7/31/2017	1:34:21 PM	5	-20.15	36	26	742	
1429 DW CENTER FENCE SX 2.txt	7/31/2017	3:04:21 PM	0115250009	7/31/2017	1:34:21 PM	6	-11.16	36.9	24	742	
1429 DW CENTER FENCE SX 2.txt	7/31/2017	3:19:21 PM	0115250009	7/31/2017	1:34:21 PM	7	16.28	37.3	24	742	
1429 DW CENTER FENCE SX 2.txt	7/31/2017	3:34:21 PM	0115250009	7/31/2017	1:34:21 PM	8	-32.24	37.8	23	742	
1429 DW CENTER FENCE SX 2.txt	7/31/2017	3:49:21 PM	0115250009	7/31/2017	1:34:21 PM	9	-28.98	38.9	22	742	
1429 DW CENTER FENCE SX 2.txt	7/31/2017	4:04:21 PM	0115250009	7/31/2017	1:34:21 PM	10	-32.51	39.4	22	742	
1429 DW CENTER FENCE SX 2.txt	7/31/2017	4:19:21 PM	0115250009	7/31/2017	1:34:21 PM	11	-30.67	39.3	22	742	
1429 DW CENTER FENCE SX 2.txt	7/31/2017	4:34:21 PM	0115250009	7/31/2017	1:34:21 PM	12	-25.84	38.2	23	742	
1429 DW CENTER FENCE SX 2.txt	7/31/2017	4:49:21 PM	0115250009	7/31/2017	1:34:21 PM	13	-32.74	35.8	26	742	
1860 DW NW FENCE SP.txt	7/31/2017	8:07:40 AM	0115250203	7/31/2017	7:52:40 AM	1	-0.75	17.8	71	744	
1860 DW NW FENCE SP.txt	7/31/2017	8:22:40 AM	0115250203	7/31/2017	7:52:40 AM	2	-1.5	21.3	62	744	
1860 DW NW FENCE SP.txt	7/31/2017	8:37:40 AM	0115250203	7/31/2017	7:52:40 AM	3	-1.7	25.3	53	744	
1860 DW NW FENCE SP.txt	7/31/2017	8:52:40 AM	0115250203	7/31/2017	7:52:40 AM	4	-1.44	28.3	45	744	
1860 DW NW FENCE SP.txt	7/31/2017	9:07:40 AM	0115250203	7/31/2017	7:52:40 AM	5	-1.98	29.7	42	744	
1860 DW NW FENCE SP.txt	7/31/2017	9:22:40 AM	0115250203	7/31/2017	7:52:40 AM	6	-1.43	31.5	39	744	
1860 DW NW FENCE SP.txt	7/31/2017	9:37:40 AM	0115250203	7/31/2017	7:52:40 AM	7	-0.85	33.7	35	744	
1860 DW NW FENCE SP.txt	7/31/2017	9:52:40 AM	0115250203	7/31/2017	7:52:40 AM	8	-1.56	34.5	33	744	
1860 DW NW FENCE SP.txt	7/31/2017	10:07:40 AM	0115250203	7/31/2017	7:52:40 AM	9	-2.46	35.1	32	744	
1860 DW NW FENCE SP.txt	7/31/2017	10:22:40 AM	0115250203	7/31/2017	7:52:40 AM	10	-3.18	35.6	29	744	
1860 DW NW FENCE SP.txt	7/31/2017	10:37:40 AM	0115250203	7/31/2017	7:52:40 AM	11	-3.99	36.1	29	744	
1860 DW NW FENCE SP.txt	7/31/2017	10:52:40 AM	0115250203	7/31/2017	7:52:40 AM	12	-3.68	36.5	27	744	
1860 DW NW FENCE SP.txt	7/31/2017	11:07:40 AM	0115250203	7/31/2017	7:52:40 AM	13	-1.99	37.1	26	744	
1860 DW NW FENCE SP.txt	7/31/2017	11:22:40 AM	0115250203	7/31/2017	7:52:40 AM	14	-1.27	37.7	25	744	
1860 DW NW FENCE SP.txt	7/31/2017	11:37:40 AM	0115250203	7/31/2017	7:52:40 AM	15	-1.75	37.7	25	744	
1860 DW NW FENCE SP.txt	7/31/2017	11:52:40 AM	0115250203	7/31/2017	7:52:40 AM	16	-2.13	37.8	26	744	
1860 DW NW FENCE SP.txt	7/31/2017	12:07:40 PM	0115250203	7/31/2017	7:52:40 AM	17	-4.88	37.8	26	744	
1860 DW NW FENCE SP.txt	7/31/2017	12:22:40 PM	0115250203	7/31/2017	7:52:40 AM	18	-4.99	37.5	27	742	
1860 DW NW FENCE SP.txt	7/31/2017	12:37:40 PM	0115250203	7/31/2017	7:52:40 AM	19	-5.1	37.1	28	742	
1860 DW NW FENCE SP.txt	7/31/2017	12:52:40 PM	0115250203	7/31/2017	7:52:40 AM	20	-4.93	36.5	29	742	
1860 DW NW FENCE SP.txt	7/31/2017	1:07:40 PM	0115250203	7/31/2017	7:52:40 AM	21	-4.88	35.9	30	742	
1860 DW NW FENCE SP.txt	7/31/2017	1:22:40 PM	0115250203	7/31/2017	7:52:40 AM	22	-4.72	35.4	30	742	
1860 DW NW FENCE SP.txt	7/31/2017	1:37:40 PM	0115250203	7/31/2017	7:52:40 AM	23	-4.57	35.2	31	742	
1860 DW NW FENCE SP.txt	7/31/2017	1:52:40 PM	0115250203	7/31/2017	7:52:40 AM	24	-4.62	35.4	30	742	
1860 DW NW FENCE SP.txt	7/31/2017	2:07:40 PM	0115250203	7/31/2017	7:52:40 AM	25	-4.9	35.4	29	742	
1860 DW NW FENCE SP.txt	7/31/2017	2:22:40 PM	0115250203	7/31/2017	7:52:40 AM	26	-5.15	35.6	28	742	
1860 DW NW FENCE SP.txt	7/31/2017	2:37:40 PM	0115250203	7/31/2017	7:52:40 AM	27	-5.25	35.9	28	742	
1860 DW NW FENCE SP.txt	7/31/2017	2:52:40 PM	0115250203	7/31/2017	7:52:40 AM	28	-5.73	36	28	742	
1860 DW NW FENCE SP.txt	7/31/2017	3:07:40 PM	0115250203	7/31/2017	7:52:40 AM	29	-5.82	36.5	27	742	
1860 DW NW FENCE SP.txt	7/31/2017	3:22:40 PM	0115250203	7/31/2017	7:52:40 AM	30	-5.78	36.7	26	742	
1860 DW NW FENCE SP.txt	7/31/2017	3:37:40 PM	0115250203	7/31/2017	7:52:40 AM	31	-5.64	37	26	742	
1860 DW NW FENCE SP.txt	7/31/2017	3:52:40 PM	0115250203	7/31/2017	7:52:40 AM	32	-5.49	37.6	25	742	
1860 DW NW FENCE SP.txt	7/31/2017	4:07:40 PM	0115250203	7/31/2017	7:52:40 AM	33	-5.52	38.2	25	742	
1860 DW NW FENCE SP.txt	7/31/2017	4:22:40 PM	0115250203	7/31/2017	7:52:40 AM	34	-5.44	38.1	24	742	
1860 DW NW FENCE SP.txt	7/31/2017	4:37:40 PM	0115250203	7/31/2017	7:52:40 AM	35	-4.81	37.1	26	742	
1860 DW NW FENCE SP.txt	7/31/2017	4:52:40 PM	0115250203	7/31/2017	7:52:40 AM	36	-2.09	35.6	29	742	
1936 DW NW CORNER SP.txt	7/31/2017	8:03:07 AM	0115250202	7/31/2017	7:48:07 AM	1	1.36	16.2	77	744	
1936 DW NW CORNER SP.txt	7/31/2017	8:18:07 AM	0115250202	7/31/2017	7:48:07 AM	2	0.69	17.6	75	744	
1936 DW NW CORNER SP.txt	7/31/2017	8:33:07 AM	0115250202	7/31/2017	7:48:07 AM	3	0.76	19.8	69	744	
1936 DW NW CORNER SP.txt	7/31/2017	8:48:07 AM	0115250202	7/31/2017	7:48:07 AM	4	1.08	21.7	64	744	
1936 DW NW CORNER SP.txt	7/31/2017	9:03:07 AM	0115250202	7/31/2017	7:48:07 AM	5	1.46	23.9	58	744	
1936 DW NW CORNER SP.txt	7/31/2017	9:18:07 AM	0115250202	7/31/2017	7:48:07 AM	6	2.17	25.4	55	744	
1936 DW NW CORNER SP.txt	7/31/2017	9:33:07 AM	0115250202	7/31/2017	7:48:07 AM	7	3.59	27.3	50	744	
1936 DW NW CORNER SP.txt	7/31/2017	9:48:07 AM	0115250202	7/31/2017	7:48:07 AM	8	2.93	28.9	47	744	
1936 DW NW CORNER SP.txt	7/31/2017	10:03:07 AM	0115250202	7/31/2017	7:48:07 AM	9	2.43	30.1	44	744	

Summary of CAMP Monitoring

Beech and Bonaparte

Former Sperry Remington Site - North Portion
Elmira, New York

Unit Location	Record Date	Record Time	Unit Serial Number	Start Date	Start Time	Record #	Dust Concentration in µg/m^3	Temp	RHumidity	AtmoPressure in mm/Hg	Notes
1936 DW NW CORNER SP.txt	7/31/2017	10:18:07 AM	0115250202	7/31/2017	7:48:07 AM	10	0.87	30.8	40	744	
1936 DW NW CORNER SP.txt	7/31/2017	10:33:07 AM	0115250202	7/31/2017	7:48:07 AM	11	0.68	31.2	38	744	
1936 DW NW CORNER SP.txt	7/31/2017	10:48:07 AM	0115250202	7/31/2017	7:48:07 AM	12	0.18	31.9	34	744	
1936 DW NW CORNER SP.txt	7/31/2017	11:03:07 AM	0115250202	7/31/2017	7:48:07 AM	13	1.52	32.3	34	744	
1936 DW NW CORNER SP.txt	7/31/2017	11:18:07 AM	0115250202	7/31/2017	7:48:07 AM	14	2.52	32.5	33	744	
1936 DW NW CORNER SP.txt	7/31/2017	11:33:07 AM	0115250202	7/31/2017	7:48:07 AM	15	2.4	32.7	34	744	
1936 DW NW CORNER SP.txt	7/31/2017	11:48:07 AM	0115250202	7/31/2017	7:48:07 AM	16	2.06	32.8	35	744	
1936 DW NW CORNER SP.txt	7/31/2017	12:03:07 PM	0115250202	7/31/2017	7:48:07 AM	17	2.39	33.1	35	744	
1936 DW NW CORNER SP.txt	7/31/2017	12:18:07 PM	0115250202	7/31/2017	7:48:07 AM	18	2.98	33.5	35	744	
1936 DW NW CORNER SP.txt	7/31/2017	12:33:07 PM	0115250202	7/31/2017	7:48:07 AM	19	2.61	33.6	35	744	
1936 DW NW CORNER SP.txt	7/31/2017	12:48:07 PM	0115250202	7/31/2017	7:48:07 AM	20	1.86	34.2	35	744	
1936 DW NW CORNER SP.txt	7/31/2017	1:03:07 PM	0115250202	7/31/2017	7:48:07 AM	21	2.08	34.8	32	744	
1936 DW NW CORNER SP.txt	7/31/2017	1:18:07 PM	0115250202	7/31/2017	7:48:07 AM	22	2.42	35.4	32	744	
1936 DW NW CORNER SP.txt	7/31/2017	1:33:07 PM	0115250202	7/31/2017	7:48:07 AM	23	2.53	35.9	31	744	
1936 DW NW CORNER SP.txt	7/31/2017	1:48:07 PM	0115250202	7/31/2017	7:48:07 AM	24	6.14	36.7	30	744	
1936 DW NW CORNER SP.txt	7/31/2017	2:03:07 PM	0115250202	7/31/2017	7:48:07 AM	25	2.72	37.4	28	744	
1936 DW NW CORNER SP.txt	7/31/2017	2:18:07 PM	0115250202	7/31/2017	7:48:07 AM	26	2.34	37.8	28	744	
1936 DW NW CORNER SP.txt	7/31/2017	2:33:07 PM	0115250202	7/31/2017	7:48:07 AM	27	2.4	38.7	26	744	
1936 DW NW CORNER SP.txt	7/31/2017	2:48:07 PM	0115250202	7/31/2017	7:48:07 AM	28	2.3	39.3	26	744	
1936 DW NW CORNER SP.txt	7/31/2017	3:03:07 PM	0115250202	7/31/2017	7:48:07 AM	29	4.27	40.5	25	744	
1936 DW NW CORNER SP.txt	7/31/2017	3:18:07 PM	0115250202	7/31/2017	7:48:07 AM	30	2.48	41.1	24	744	
1936 DW NW CORNER SP.txt	7/31/2017	3:33:07 PM	0115250202	7/31/2017	7:48:07 AM	31	2.59	40.9	24	744	
1936 DW NW CORNER SP.txt	7/31/2017	3:48:07 PM	0115250202	7/31/2017	7:48:07 AM	32	2.77	40.7	24	742	
1936 DW NW CORNER SP.txt	7/31/2017	4:03:07 PM	0115250202	7/31/2017	7:48:07 AM	33	3.26	40.9	24	742	
1936 DW NW CORNER SP.txt	7/31/2017	4:18:07 PM	0115250202	7/31/2017	7:48:07 AM	34	3.12	39.6	25	742	
1936 DW NW CORNER SP.txt	7/31/2017	4:33:07 PM	0115250202	7/31/2017	7:48:07 AM	35	3.47	37.1	27	742	
1936 DW NW CORNER SP.txt	7/31/2017	4:48:07 PM	0115250202	7/31/2017	7:48:07 AM	36	5.6	35.3	30	742	
1954 UP T POST SP.txt	7/31/2017	8:06:49 AM	0115250211	7/31/2017	7:51:49 AM	1	-140.29	17.1	77	744	
1954 UP T POST SP.txt	7/31/2017	8:21:49 AM	0115250211	7/31/2017	7:51:49 AM	2	-146.39	17.5	76	744	
1954 UP T POST SP.txt	7/31/2017	8:36:49 AM	0115250211	7/31/2017	7:51:49 AM	3	-150.86	18.3	75	744	
1954 UP T POST SP.txt	7/31/2017	8:51:49 AM	0115250211	7/31/2017	7:51:49 AM	4	-168.13	19.7	71	744	
1954 UP T POST SP.txt	7/31/2017	9:06:49 AM	0115250211	7/31/2017	7:51:49 AM	5	-185.18	21.3	67	744	
1954 UP T POST SP.txt	7/31/2017	9:21:49 AM	0115250211	7/31/2017	7:51:49 AM	6	-200.87	22.5	62	744	
1954 UP T POST SP.txt	7/31/2017	9:36:49 AM	0115250211	7/31/2017	7:51:49 AM	7	-212.26	23.8	58	744	
1954 UP T POST SP.txt	7/31/2017	9:51:49 AM	0115250211	7/31/2017	7:51:49 AM	8	-218.24	24.9	55	744	
1954 UP T POST SP.txt	7/31/2017	10:06:49 AM	0115250211	7/31/2017	7:51:49 AM	9	-224.28	25.5	52	744	
1954 UP T POST SP.txt	7/31/2017	10:21:49 AM	0115250211	7/31/2017	7:51:49 AM	10	-229.41	25.9	49	744	
1954 UP T POST SP.txt	7/31/2017	10:36:49 AM	0115250211	7/31/2017	7:51:49 AM	11	-230.75	26.6	47	744	
1954 UP T POST SP.txt	7/31/2017	10:51:49 AM	0115250211	7/31/2017	7:51:49 AM	12	-231.03	27.2	43	744	
1954 UP T POST SP.txt	7/31/2017	11:06:49 AM	0115250211	7/31/2017	7:51:49 AM	13	-231.01	27.5	41	744	
1954 UP T POST SP.txt	7/31/2017	11:21:49 AM	0115250211	7/31/2017	7:51:49 AM	14	-230.57	27.8	41	744	
1954 UP T POST SP.txt	7/31/2017	11:36:49 AM	0115250211	7/31/2017	7:51:49 AM	15	-231.03	28	41	744	
1954 UP T POST SP.txt	7/31/2017	11:51:49 AM	0115250211	7/31/2017	7:51:49 AM	16	-231.06	28.5	42	744	
1954 UP T POST SP.txt	7/31/2017	12:06:49 PM	0115250211	7/31/2017	7:51:49 AM	17	-231.03	29.3	40	744	
1954 UP T POST SP.txt	7/31/2017	12:21:49 PM	0115250211	7/31/2017	7:51:49 AM	18	-231.03	29.8	40	744	
1954 UP T POST SP.txt	7/31/2017	12:36:49 PM	0115250211	7/31/2017	7:51:49 AM	19	-231.05	30.7	39	744	
1954 UP T POST SP.txt	7/31/2017	12:51:49 PM	0115250211	7/31/2017	7:51:49 AM	20	-231.08	31.1	38	742	
1954 UP T POST SP.txt	7/31/2017	1:06:49 PM	0115250211	7/31/2017	7:51:49 AM	21	-231.03	31.6	37	742	
1954 UP T POST SP.txt	7/31/2017	1:21:49 PM	0115250211	7/31/2017	7:51:49 AM	22	-231	31.6	36	742	
1954 UP T POST SP.txt	7/31/2017	1:36:49 PM	0115250211	7/31/2017	7:51:49 AM	23	-231.04	32.1	35	742	
1954 UP T POST SP.txt	7/31/2017	1:51:49 PM	0115250211	7/31/2017	7:51:49 AM	24	-231.12	32.7	34	742	
1954 UP T POST SP.txt	7/31/2017	2:06:49 PM	0115250211	7/31/2017	7:51:49 AM	25	-231.05	33	33	742	
1954 UP T POST SP.txt	7/31/2017	2:21:49 PM	0115250211	7/31/2017	7:51:49 AM	26	-231.09	33.5	32	742	
1954 UP T POST SP.txt	7/31/2017	2:36:49 PM	0115250211	7/31/2017	7:51:49 AM	27	-231.13	33.6	31	742	
1954 UP T POST SP.txt	7/31/2017	2:51:49 PM	0115250211	7/31/2017	7:51:49 AM	28	-231.07	33.9	30	742	
1954 UP T POST SP.txt	7/31/2017	3:06:49 PM	0115250211	7/31/2017	7:51:49 AM	29	-231.01	34.1	30	742	
1954 UP T POST SP.txt	7/31/2017	3:21:49 PM	0115250211	7/31/2017	7:51:49 AM	30	-231.03	34.1	30	742	
1954 UP T POST SP.txt	7/31/2017	3:36:49 PM	0115250211	7/31/2017	7:51:49 AM	31	-231.11	34.5	29	742	
1954 UP T POST SP.txt	7/31/2017	3:51:49 PM	0115250211	7/31/2017	7:51:49 AM	32	-230.93	34.5	29	742	
1954 UP T POST SP.txt	7/31/2017	4:06:49 PM	0115250211	7/31/2017	7:51:49 AM	33	-231.12	34.7	29	742	
1954 UP T POST SP.txt	7/31/2017	4:21:49 PM	0115250211	7/31/2017	7:51:49 AM	34	-231.08	34.9	29	742	
1954 UP T POST SP.txt	7/31/2017	4:36:49 PM	0115250211	7/31/2017	7:51:49 AM	35	-231.06	34.6	30	742	
1954 UP T POST SP.txt	7/31/2017	4:51:49 PM	0115250211	7/31/2017	7:51:49 AM	36	-230.89	33.6	32	742	
2535 UW FENCE SX.txt	7/31/2017	8:04:34 AM	CM15111015	7/31/2017	7:49:34 AM	1	-31.73	19.5	63	744	
2535 UW FENCE SX.txt	7/31/2017	8:19:34 AM	CM15111015	7/31/2017	7:49:34 AM	2	-30.07	22.7	54	744	
2535 UW FENCE SX.txt	7/31/2017	8:34:34 AM	CM15111015	7/31/2017	7:49:34 AM	3	-39.68	25.7	47	744	
2535 UW FENCE SX.txt	7/31/2017	8:49:34 AM	CM15111015	7/31/2017	7:49:34 AM	4	-32.26	27.4	43	744	
2535 UW FENCE SX.txt	7/31/2017	9:04:34 AM	CM15111015	7/31/2017	7:49:34 AM	5	-38.16	28.9	40	744	
2535 UW FENCE SX.txt	7/31/2017	9:19:34 AM	CM15111015	7/31/2017	7:49:34 AM	6	-39.37	30.5	38	744	
2535 UW FENCE SX.txt	7/31/2017	9:34:34 AM	CM15111015	7/31/2017	7:49:34 AM	7	-41.7	31.8	35	744	
2535 UW FENCE SX.txt	7/31/2017	9:49:34 AM	CM15111015	7/31/2017	7:49:34 AM	8	-41.97	32.9	33	744	
2535 UW FENCE SX.txt	7/31/2017	10:04:34 AM	CM15111015	7/31/2017	7:49:34 AM	9	-42.4	33.3	32	744	
2535 UW FENCE SX.txt	7/31/2017	10:19:34 AM	CM15111015	7/31/2017	7:49:34 AM	10	-36.32	33	30	744	
2535 UW FENCE SX.txt	7/31/2017	10:34:34 AM	CM15111015	7/31/2017	7:49:34 AM	11	-32.55	32	31	744	
2535 UW FENCE SX.txt	7/31/2017	10:49:34 AM	CM15111015	7/31/2017	7:49:34 AM	12	-30.83	32	30	744	
2535 UW FENCE SX.txt	7/31/2017	11:04:34 AM	CM15111015	7/31/2017	7:49:34 AM	13	-28.17	32.2	29	744	
2535 UW FENCE SX.txt	7/31/2017	11:19:34 AM	CM15111015	7/31/2017	7:49:34 AM	14	-39.5	32.1	29	744	
2535 UW FENCE SX.txt	7/31/2017	11:34:34 AM	CM15111015	7/31/2017	7:49:34 AM	15	-40.7	31.8	30	744	
2535 UW FENCE SX.txt	7/31/2017	11:49:34 AM	CM15111015	7/31/2017	7:49:34 AM	16	-39.48	31.6	32	744	
2535 UW FENCE SX.txt	7/31/2017	12:04:34 PM	CM15111015	7/31/2017	7:49:34 AM	17	-42.23	31.9	31	744	
2535 UW FENCE SX.txt	7/31/2017	12:19:34 PM	CM15111015	7/31/2017	7:49:34 AM	18	-42.02	32.2	32	744	
2535 UW FENCE SX.txt	7/31/2017	12:34:34 PM	CM15111015	7/31/2017	7:49:34 AM	19	-39.81	32	32	744	
2535 UW FENCE SX.txt	7/31/2017	12:49:34 PM	CM15111015	7/31/2017	7:49:34 AM	20	-31.92	31.5	33	744	
2535 UW FENCE SX.txt	7/31/2017	1:04:34 PM	CM15111015	7/31/2017	7:49:34 AM	21	-28.79	31.3	33	744	
2535 UW FENCE SX.txt	7/31/2017	1:19:34 PM	CM15111015	7/31/2017	7:49:34 AM	22	-26.7	32.1	32	744	
2535 UW FENCE SX.txt	7/31/2017	1:34:34 PM	CM15111015	7/31/2017	7:49:34 AM	23	-34.73	32.8	31	744	
2535 UW FENCE SX.txt	7/31/2017	1:49:34 PM	CM15111015	7/31/2017	7:49:34 AM	24	-30.64	33.4	30	744	
2535 UW FENCE SX.txt	7/31/2017	2:04:34 PM	CM15111015	7/31/2017	7:49:34 AM	25	-9.33	33.7	28	744	
2535 UW FENCE SX.txt	7/31/2017	2:19:34 PM	CM15111015	7/31/2017	7:49:34 AM	26	-10.52	34.2	27	744	
2535 UW FENCE SX.txt	7/31/2017	2:34:34 PM	CM15111015	7/31/2017	7:49:34 AM	27	-31	34.7	27	744	
2535 UW FENCE SX.txt	7/31/2017	2:49:34 PM	CM15111015	7/31/2017	7:49:34 AM	28	-27.26	35.4	26	744	
2535 UW FENCE SX.txt	7/31/2017	3:04:34 PM	CM15111015	7/31/2017	7:49:34 AM	29	-15.3	36	25	744	
2535 UW FENCE SX.txt	7/31/2017	3:19:34 PM	CM15111015	7/31/2017	7:49:34 AM	30	-36.16	36.2	25	744	
2535 UW FENCE SX.txt	7/31/2017	3:34:34 PM	CM15111015	7/31/2017	7:49:34 AM	31	-42.35	36.3	24	744	
2535 UW FENCE SX.txt	7/31/2017	3:49:34 PM	CM15111015	7/31/2017	7:49:34 AM	32	-41.41	36.5	24	744	
2535 UW FENCE SX.txt	7/31/2017	4:04:34 PM	CM15111015	7/31/2017	7:49:34 AM	33	5.41	36.8	24	744	
2535 UW FENCE SX.txt	7/31/2017	4:19:34 PM	CM15111015	7/31/2017	7:49:34 AM	34	-42.42	36.9	24	744	
2535 UW FENCE SX.txt	7/31/2017	4:34:34 PM	CM15111015	7/31/2017	7:49:34 AM	35	48.14	36.4	25	744	
2980 DW NE CORNER SP.txt	7/31/2017	8:04:07 AM	CM15111014	7/31/2017	7:49:07 AM	1	0.79	17.5	74	744	
2980 DW NE CORNER SP.txt	7/31/2017	8:19:07 AM	CM15111014	7/31/2017	7:49:07 AM	2	-0.42	17	78	744	
2980 DW NE CORNER SP.txt	7/31/2017	8:34:07 AM	CM15111014	7/31/2017	7:49:07 AM	3	-0.64	17.1	80	744	
2980 DW NE CORNER SP.txt	7/31/2017	8:49:07 AM	CM15111014	7/31/2017	7:49:07 AM	4	-0.94	17.9	80	744	
2980 DW NE CORNER SP.txt	7/31/2017	9:04:07 AM	CM15111014	7/31/2017	7:49:07 AM	5	-0.68	19.6	76	744	
2980 DW NE CORNER SP.txt	7/31/2017	9:19:07 AM	CM15111014	7/31/2017	7:49:07 AM	6	0.76	23	66	744	
2980 DW NE CORNER SP.txt	7/31/2017	9:34:07 AM	CM15111014	7/31/2017	7:49:07 AM	7	4.89	26.5	55	744	
2980 DW NE CORNER SP.txt	7/31/2017	9:49:07 AM	CM15111014	7/31/2017	7:49:07 AM	8	0.19	29.2	47	744	
2980 DW NE CORNER SP.txt	7/31/2017	10:04:07 AM	CM15111014	7/31/2017	7:49:07 AM	9	-1.13	31.4	41	744	
2980 DW NE CORNER SP.txt	7/31/2017	10:19:07 AM	CM15111014	7/31/2017	7:49:07 AM	10	-2.85	32.8	36	744	
2980 DW NE CORNER SP.txt	7/31/2017	10:34:07 AM	CM15111014	7/31/2017	7:49:07 AM	11	-2.94	33.6	34	744	
2980 DW NE CORNER SP.txt	7/31/2017	10:49:07 AM	CM15111014	7/31/2017	7:49:07 AM	12	-2.53	34.5	32	744	
2980 DW NE CORNER SP.txt	7/31/2017	11:04:07 AM	CM15111014	7/31/2017	7:49:07 AM	13	-2.09	34.9	30	744	
2980 DW NE CORNER SP.txt	7/31/2017	11:19:07 AM	CM15111014	7/31/2017	7:49:07 AM	14	1.46	35	29	744	
2980 DW NE CORNER SP.txt	7/31/2017	11:34:07 AM	CM15111014	7/31/2017	7:49:07 AM	15	-1.38	35	30	744	
2980 DW NE CORNER SP.txt	7/31/2017	11:49:07 AM	CM15111014	7/31/2017	7:49:07 AM	16	-1.6	35.2	31	744	
2980 DW NE CORNER SP.txt	7/31/2017	12:04:07 PM	CM15111014	7/31/2017	7:49:07 AM	17	-2.06	35.5	31	744	
2980 DW NE CORNER SP.txt	7/31/2017	12:19:07 PM	CM15111014	7/31/2017	7:49:07 AM	18	-0.82	35.9	30	744	
2980 DW NE CORNER SP.txt	7/31/2017	12:34:07 PM	CM15111014	7/31/2017	7:49:07 AM	19	-0.41	35.9	31	744	
2980 DW NE CORNER SP.txt	7/31/2017	12:49:07 PM	CM15111014	7/31/2017	7:49:07 AM	20	4.22	36.4	30	744	
2980 DW NE CORNER SP.txt	7/31/2017	1:04:07 PM	CM15111014	7/31/2017	7:49:07 AM	21	-1.68	37	29	744	
2980 DW NE CORNER SP.txt	7/31/2017	1:19:07 PM	CM15111014	7/31/2017	7:49:07 AM	22	-1.58	37.7	28	744	
2980 DW NE CORNER SP.txt	7/31/2017	1:34:07 PM	CM15111014	7/31/2017	7:49:07 AM	23	-1.61	37.9	27	744	
2980 DW NE CORNER SP.txt	7/31/2017	1:49:07 PM	CM15111014	7/31/2017	7:49:07 AM	24	-0.27	38.2	27	744	
2980 DW NE CORNER SP.txt	7/31/2017	2:04:07 PM	CM15111014	7/31/2017	7:49:07 AM	25	-0.09	38.7	25	744	
2980 DW NE CORNER SP.txt	7/31/2017	2:19:07 PM	CM15111014	7/31/2017	7:49:07 AM	26	-2.03	38.8	25	744	
2980 DW NE CORNER SP.txt	7/31/2017	2:34:07 PM	CM15111014	7/31/2017	7:49:07 AM	27	0.55	39.7	24	744	
2980 DW NE CORNER SP.txt	7/31/2017	2:49:07 PM	CM15111014	7/31/2017	7:49:07 AM	28	-2.66	39.9	23	744	
2980 DW NE CORNER SP.txt	7/31/2017	3:04:07 PM	CM15111014	7/31/2017	7:49:07 AM	29	-2.1	40.6	22	744	
2980 DW NE CORNER SP.txt	7/31/2017	3:19:07 PM	CM15111014	7/31/2017	7:49:07 AM	30	-2.21	40.7	21	744	

Summary of CAMP Monitoring

Beech and Bonaparte

Former Sperry Remington Site - North Portion
Elmira, New York

Unit Location	Record Date	Record Time	Unit Serial Number	Start Date	Start Time	Record #	Dust Concentration in µg/m^3	Temp	RHumidity	AtmoPressure in mm/Hg	Notes
2980 DW NE CORNER SP.txt	7/31/2017	3:34:07 PM	CM15111014	7/31/2017	7:49:07 AM	31	-2.73	40.3	22	744	
2980 DW NE CORNER SP.txt	7/31/2017	3:49:07 PM	CM15111014	7/31/2017	7:49:07 AM	32	1.26	40.1	22	744	
2980 DW NE CORNER SP.txt	7/31/2017	4:04:07 PM	CM15111014	7/31/2017	7:49:07 AM	33	-0.75	40.2	23	744	
2980 DW NE CORNER SP.txt	7/31/2017	4:19:07 PM	CM15111014	7/31/2017	7:49:07 AM	34	-2.35	39.1	23	744	
2980 DW NE CORNER SP.txt	7/31/2017	4:34:07 PM	CM15111014	7/31/2017	7:49:07 AM	35	-1.58	37.3	26	742	
2980 DW NE CORNER SP.txt	7/31/2017	4:49:07 PM	CM15111014	7/31/2017	7:49:07 AM	36	2.82	36	29	742	
818 DW NW FENCE SX.txt	7/31/2017	8:02:23 AM	0115249311	7/31/2017	7:47:23 AM	1	-16.7	19.6	67	744	
818 DW NW FENCE SX.txt	7/31/2017	8:17:23 AM	0115249311	7/31/2017	7:47:23 AM	2	-17.31	23.6	56	744	
818 DW NW FENCE SX.txt	7/31/2017	8:32:23 AM	0115249311	7/31/2017	7:47:23 AM	3	-17.26	26.5	48	744	
818 DW NW FENCE SX.txt	7/31/2017	8:47:23 AM	0115249311	7/31/2017	7:47:23 AM	4	21.83	28.2	44	744	
818 DW NW FENCE SX.txt	7/31/2017	9:02:23 AM	0115249311	7/31/2017	7:47:23 AM	5	-16.57	29.7	41	744	
818 DW NW FENCE SX.txt	7/31/2017	9:17:23 AM	0115249311	7/31/2017	7:47:23 AM	6	32.54	31.2	39	744	
818 DW NW FENCE SX.txt	7/31/2017	9:32:23 AM	0115249311	7/31/2017	7:47:23 AM	7	-16.6	32.3	36	744	
818 DW NW FENCE SX.txt	7/31/2017	9:47:23 AM	0115249311	7/31/2017	7:47:23 AM	8	-15.19	33.5	34	744	
818 DW NW FENCE SX.txt	7/31/2017	10:02:23 AM	0115249311	7/31/2017	7:47:23 AM	9	-16.35	34	33	744	
818 DW NW FENCE SX.txt	7/31/2017	10:17:23 AM	0115249311	7/31/2017	7:47:23 AM	10	-15.65	34	31	744	
818 DW NW FENCE SX.txt	7/31/2017	10:32:23 AM	0115249311	7/31/2017	7:47:23 AM	11	-4.5	33	32	744	
818 DW NW FENCE SX.txt	7/31/2017	10:47:23 AM	0115249311	7/31/2017	7:47:23 AM	12	-12.39	32	33	744	
818 DW NW FENCE SX.txt	7/31/2017	11:02:23 AM	0115249311	7/31/2017	7:47:23 AM	13	-12.53	31.4	33	744	
818 DW NW FENCE SX.txt	7/31/2017	11:17:23 AM	0115249311	7/31/2017	7:47:23 AM	14	-16.43	31.2	33	744	
0818 DW NW FENCE SX.txt	8/1/2017	7:55:42 AM	0115249311	8/1/2017	7:40:42 AM	1	-2.46	21.2	64	742	
0818 DW NW FENCE SX.txt	8/1/2017	8:10:42 AM	0115249311	8/1/2017	7:40:42 AM	2	-1.19	24.7	55	742	
0818 DW NW FENCE SX.txt	8/1/2017	8:25:42 AM	0115249311	8/1/2017	7:40:42 AM	3	9.44	27.3	49	742	
0818 DW NW FENCE SX.txt	8/1/2017	8:40:42 AM	0115249311	8/1/2017	7:40:42 AM	4	-1.99	28.6	45	742	
0818 DW NW FENCE SX.txt	8/1/2017	8:55:42 AM	0115249311	8/1/2017	7:40:42 AM	5	4.15	29.8	43	742	
0818 DW NW FENCE SX.txt	8/1/2017	9:10:42 AM	0115249311	8/1/2017	7:40:42 AM	6	-2.42	30.4	42	744	
0818 DW NW FENCE SX.txt	8/1/2017	9:25:42 AM	0115249311	8/1/2017	7:40:42 AM	7	-2.77	31.1	41	744	
0818 DW NW FENCE SX.txt	8/1/2017	9:40:42 AM	0115249311	8/1/2017	7:40:42 AM	8	2.68	31.8	40	744	
0818 DW NW FENCE SX.txt	8/1/2017	9:55:42 AM	0115249311	8/1/2017	7:40:42 AM	9	0.5	32.4	39	744	
0818 DW NW FENCE SX.txt	8/1/2017	10:10:42 AM	0115249311	8/1/2017	7:40:42 AM	10	-2.63	33.1	38	744	
0818 DW NW FENCE SX.txt	8/1/2017	10:25:42 AM	0115249311	8/1/2017	7:40:42 AM	11	-3.23	33.4	37	744	
0818 DW NW FENCE SX.txt	8/1/2017	10:40:42 AM	0115249311	8/1/2017	7:40:42 AM	12	-0.98	32.7	38	744	
0818 DW NW FENCE SX.txt	8/1/2017	10:55:42 AM	0115249311	8/1/2017	7:40:42 AM	13	-0.46	32	40	742	
0818 DW NW FENCE SX.txt	8/1/2017	11:10:42 AM	0115249311	8/1/2017	7:40:42 AM	14	4.92	31.9	40	742	
0818 DW NW FENCE SX.txt	8/1/2017	11:25:42 AM	0115249311	8/1/2017	7:40:42 AM	15	0.63	32.1	40	742	
0818 DW NW FENCE SX.txt	8/1/2017	11:40:42 AM	0115249311	8/1/2017	7:40:42 AM	16	18.84	32.2	40	742	
0818 DW NW FENCE SX.txt	8/1/2017	11:55:42 AM	0115249311	8/1/2017	7:40:42 AM	17	2.51	32.7	39	742	
0818 DW NW FENCE SX.txt	8/1/2017	12:10:42 PM	0115249311	8/1/2017	7:40:42 AM	18	0.09	33.5	37	742	
0818 DW NW FENCE SX.txt	8/1/2017	12:25:42 PM	0115249311	8/1/2017	7:40:42 AM	19	-0.49	33.6	36	742	
0818 DW NW FENCE SX.txt	8/1/2017	12:40:42 PM	0115249311	8/1/2017	7:40:42 AM	20	57.25	33.7	36	742	
0818 DW NW FENCE SX.txt	8/1/2017	12:55:42 PM	0115249311	8/1/2017	7:40:42 AM	21	10.4	34	35	742	
0818 DW NW FENCE SX.txt	8/1/2017	1:10:42 PM	0115249311	8/1/2017	7:40:42 AM	22	15.9	34.1	32	742	
0818 DW NW FENCE SX.txt	8/1/2017	1:25:42 PM	0115249311	8/1/2017	7:40:42 AM	23	10.21	34.2	32	742	
0818 DW NW FENCE SX.txt	8/1/2017	1:40:42 PM	0115249311	8/1/2017	7:40:42 AM	24	12.65	34.4	32	742	
0818 DW NW FENCE SX.txt	8/1/2017	1:55:42 PM	0115249311	8/1/2017	7:40:42 AM	25	4.87	35	31	742	
0818 DW NW FENCE SX.txt	8/1/2017	2:10:42 PM	0115249311	8/1/2017	7:40:42 AM	26	0.05	36.2	30	742	
0818 DW NW FENCE SX.txt	8/1/2017	2:25:42 PM	0115249311	8/1/2017	7:40:42 AM	27	4.72	36.6	29	742	
0818 DW NW FENCE SX.txt	8/1/2017	2:40:42 PM	0115249311	8/1/2017	7:40:42 AM	28	1.72	35.9	30	742	
0818 DW NW FENCE SX.txt	8/1/2017	2:55:42 PM	0115249311	8/1/2017	7:40:42 AM	29	34.68	35.4	30	742	
0818 DW NW FENCE SX.txt	8/1/2017	3:10:42 PM	0115249311	8/1/2017	7:40:42 AM	30	7.15	35	31	742	
0818 DW NW FENCE SX.txt	8/1/2017	3:25:42 PM	0115249311	8/1/2017	7:40:42 AM	31	-0.98	34.5	31	742	
0818 DW NW FENCE SX.txt	8/1/2017	3:40:42 PM	0115249311	8/1/2017	7:40:42 AM	32	24.54	35.2	31	742	
0818 DW NW FENCE SX.txt	8/1/2017	3:55:42 PM	0115249311	8/1/2017	7:40:42 AM	33	-0.32	35.2	31	742	
0818 DW NW FENCE SX.txt	8/1/2017	4:10:42 PM	0115249311	8/1/2017	7:40:42 AM	34	5.99	35	31	742	
0818 DW NW FENCE SX.txt	8/1/2017	4:25:42 PM	0115249311	8/1/2017	7:40:42 AM	35	14.22	35	37	742	
0818 DW NW FENCE SX.txt	8/1/2017	4:40:42 PM	0115249311	8/1/2017	7:40:42 AM	36	-1.04	35.2	34	742	
1421 DW NW CORN SX.txt	8/1/2017	7:53:39 AM	0115249975	8/1/2017	7:38:39 AM	1	-16.92	21.3	61	742	
1421 DW NW CORN SX.txt	8/1/2017	8:08:39 AM	0115249975	8/1/2017	7:38:39 AM	2	-18.74	25.5	50	742	
1421 DW NW CORN SX.txt	8/1/2017	8:23:39 AM	0115249975	8/1/2017	7:38:39 AM	3	-8.69	28.2	43	742	
1421 DW NW CORN SX.txt	8/1/2017	8:38:39 AM	0115249975	8/1/2017	7:38:39 AM	4	-17.46	29.7	40	742	
1421 DW NW CORN SX.txt	8/1/2017	8:53:39 AM	0115249975	8/1/2017	7:38:39 AM	5	-19.04	31	37	742	
1421 DW NW CORN SX.txt	8/1/2017	9:08:39 AM	0115249975	8/1/2017	7:38:39 AM	6	-20.35	32.2	35	742	
1421 DW NW CORN SX.txt	8/1/2017	9:23:39 AM	0115249975	8/1/2017	7:38:39 AM	7	-19.95	33.8	34	742	
1421 DW NW CORN SX.txt	8/1/2017	9:38:39 AM	0115249975	8/1/2017	7:38:39 AM	8	-18.95	34.5	34	742	
1421 DW NW CORN SX.txt	8/1/2017	9:53:39 AM	0115249975	8/1/2017	7:38:39 AM	9	-18.91	35.1	33	742	
1421 DW NW CORN SX.txt	8/1/2017	10:08:39 AM	0115249975	8/1/2017	7:38:39 AM	10	-17.57	36.2	29	742	
1421 DW NW CORN SX.txt	8/1/2017	10:23:39 AM	0115249975	8/1/2017	7:38:39 AM	11	-16.88	37.2	27	742	
1421 DW NW CORN SX.txt	8/1/2017	10:38:39 AM	0115249975	8/1/2017	7:38:39 AM	12	-10.45	38.2	26	742	
1421 DW NW CORN SX.txt	8/1/2017	10:53:39 AM	0115249975	8/1/2017	7:38:39 AM	13	-15.53	37.9	26	742	
1421 DW NW CORN SX.txt	8/1/2017	11:08:39 AM	0115249975	8/1/2017	7:38:39 AM	14	-6.82	38.4	25	742	
1421 DW NW CORN SX.txt	8/1/2017	11:23:39 AM	0115249975	8/1/2017	7:38:39 AM	15	-15.05	39.2	24	742	
1421 DW NW CORN SX.txt	8/1/2017	11:38:39 AM	0115249975	8/1/2017	7:38:39 AM	16	-14.4	39.1	24	742	
1421 DW NW CORN SX.txt	8/1/2017	11:53:39 AM	0115249975	8/1/2017	7:38:39 AM	17	-5.57	38.7	25	742	
1421 DW NW CORN SX.txt	8/1/2017	12:08:39 PM	0115249975	8/1/2017	7:38:39 AM	18	-13.29	38.6	25	742	
1421 DW NW CORN SX.txt	8/1/2017	12:23:39 PM	0115249975	8/1/2017	7:38:39 AM	19	-13.28	37.8	26	742	
1421 DW NW CORN SX.txt	8/1/2017	12:38:39 PM	0115249975	8/1/2017	7:38:39 AM	20	-11.44	37.3	26	742	
1421 DW NW CORN SX.txt	8/1/2017	12:53:39 PM	0115249975	8/1/2017	7:38:39 AM	21	-12.38	36.7	27	742	
1421 DW NW CORN SX.txt	8/1/2017	1:08:39 PM	0115249975	8/1/2017	7:38:39 AM	22	-10.62	35.4	28	742	
1421 DW NW CORN SX.txt	8/1/2017	1:23:39 PM	0115249975	8/1/2017	7:38:39 AM	23	-15.46	34.8	30	742	
1421 DW NW CORN SX.txt	8/1/2017	1:38:39 PM	0115249975	8/1/2017	7:38:39 AM	24	-12.42	34.8	31	742	
1421 DW NW CORN SX.txt	8/1/2017	1:53:39 PM	0115249975	8/1/2017	7:38:39 AM	25	-14.77	34.8	32	742	
1421 DW NW CORN SX.txt	8/1/2017	2:08:39 PM	0115249975	8/1/2017	7:38:39 AM	26	-14.56	35.4	30	742	
1421 DW NW CORN SX.txt	8/1/2017	2:23:39 PM	0115249975	8/1/2017	7:38:39 AM	27	-8.95	35.6	28	742	
1421 DW NW CORN SX.txt	8/1/2017	2:38:39 PM	0115249975	8/1/2017	7:38:39 AM	28	-13.32	34.8	30	742	
1421 DW NW CORN SX.txt	8/1/2017	2:53:39 PM	0115249975	8/1/2017	7:38:39 AM	29	-6.75	34.7	32	742	
1421 DW NW CORN SX.txt	8/1/2017	3:08:39 PM	0115249975	8/1/2017	7:38:39 AM	30	-11.14	34.3	32	742	
1421 DW NW CORN SX.txt	8/1/2017	3:23:39 PM	0115249975	8/1/2017	7:38:39 AM	31	-10.58	33.9	32	740	
1421 DW NW CORN SX.txt	8/1/2017	3:38:39 PM	0115249975	8/1/2017	7:38:39 AM	32	-7.14	34	32	740	
1421 DW NW CORN SX.txt	8/1/2017	3:53:39 PM	0115249975	8/1/2017	7:38:39 AM	33	-14.09	33.9	33	740	
1421 DW NW CORN SX.txt	8/1/2017	4:08:39 PM	0115249975	8/1/2017	7:38:39 AM	34	-14.07	33.9	33	740	
1421 DW NW CORN SX.txt	8/1/2017	4:23:39 PM	0115249975	8/1/2017	7:38:39 AM	35	25.17	34.1	37	740	
1421 DW NW CORN SX.txt	8/1/2017	4:38:39 PM	0115249975	8/1/2017	7:38:39 AM	36	-9.74	34.5	37	740	
1422 DW NE FENCE SP.txt	8/1/2017	7:55:05 AM	0115249980	8/1/2017	7:40:05 AM	1	-7.55	18	69	742	
1422 DW NE FENCE SP.txt	8/1/2017	8:10:05 AM	0115249980	8/1/2017	7:40:05 AM	2	-6.22	17.5	73	742	
1422 DW NE FENCE SP.txt	8/1/2017	8:25:05 AM	0115249980	8/1/2017	7:40:05 AM	3	15.47	17	78	742	
1422 DW NE FENCE SP.txt	8/1/2017	8:40:05 AM	0115249980	8/1/2017	7:40:05 AM	4	-3.54	16.4	83	742	
1422 DW NE FENCE SP.txt	8/1/2017	8:55:05 AM	0115249980	8/1/2017	7:40:05 AM	5	-3.1	16.2	86	742	
1422 DW NE FENCE SP.txt	8/1/2017	9:10:05 AM	0115249980	8/1/2017	7:40:05 AM	6	-2.82	16.5	86	742	
1422 DW NE FENCE SP.txt	8/1/2017	9:25:05 AM	0115249980	8/1/2017	7:40:05 AM	7	-3.65	16.9	85	742	
1422 DW NE FENCE SP.txt	8/1/2017	9:40:05 AM	0115249980	8/1/2017	7:40:05 AM	8	-3.54	17.6	84	742	
1422 DW NE FENCE SP.txt	8/1/2017	9:55:05 AM	0115249980	8/1/2017	7:40:05 AM	9	2.89	18.4	80	742	
1422 DW NE FENCE SP.txt	8/1/2017	10:10:05 AM	0115249980	8/1/2017	7:40:05 AM	10	-3.78	19.1	78	742	
1422 DW NE FENCE SP.txt	8/1/2017	10:25:05 AM	0115249980	8/1/2017	7:40:05 AM	11	-4.59	19.9	74	742	
1422 DW NE FENCE SP.txt	8/1/2017	10:40:05 AM	0115249980	8/1/2017	7:40:05 AM	12	-4.22	20.6	72	742	
1422 DW NE FENCE SP.txt	8/1/2017	10:55:05 AM	0115249980	8/1/2017	7:40:05 AM	13	-5.32	21.2	70	742	
1422 DW NE FENCE SP.txt	8/1/2017	11:10:05 AM	0115249980	8/1/2017	7:40:05 AM	14	-4.77	21.9	69	742	
1422 DW NE FENCE SP.txt	8/1/2017	11:25:05 AM	0115249980	8/1/2017	7:40:05 AM	15	5.97	22.6	65	742	
1422 DW NE FENCE SP.txt	8/1/2017	11:40:05 AM	0115249980	8/1/2017	7:40:05 AM	16	10.61	23.2	62	742	
1422 DW NE FENCE SP.txt	8/1/2017	11:55:05 AM	0115249980	8/1/2017	7:40:05 AM	17	1.03	23.6	61	742	
1422 DW NE FENCE SP.txt	8/1/2017	12:10:05 PM	0115249980	8/1/2017	7:40:05 AM	18	-4.91	24.4	59	742	
1422 DW NE FENCE SP.txt	8/1/2017	12:25:05 PM	0115249980	8/1/2017	7:40:05 AM	19	-5.22	25.3	57	742	
1422 DW NE FENCE SP.txt	8/1/2017	12:40:05 PM	0115249980	8/1/2017	7:40:05 AM	20	-5.34	25.9	52	742	
1422 DW NE FENCE SP.txt	8/1/2017	12:55:05 PM	0115249980	8/1/2017	7:40:05 AM	21	-6.11	26.6	52	742	
1422 DW NE FENCE SP.txt	8/1/2017	1:10:05 PM	0115249980	8/1/2017	7:40:05 AM	22	25.19	27.7	48	742	
1422 DW NE FENCE SP.txt	8/1/2017	1:25:05 PM	0115249980	8/1/2017	7:40:05 AM	23	-0.26	29.1	44	742	
1422 DW NE FENCE SP.txt	8/1/2017	1:40:05 PM	0115249980	8/1/2017	7:40:05 AM	24	-8.27	31	40	742	
1422 DW NE FENCE SP.txt	8/1/2017	1:55:05 PM	0115249980	8/1/2017	7:40:05 AM	25	7.07	32.9	37	742	
1422 DW NE FENCE SP.txt	8/1/2017	2:10:05 PM	0115249980	8/1/2017	7:40:05 AM	26	1.44	34.3	35	742	
1422 DW NE FENCE SP.txt	8/1/2017	2:25:05 PM	0115249980	8/1/2017	7:40:05 AM	27	45.68	35.4	32	742	
1422 DW NE FENCE SP.txt	8/1/2017	2:40:05 PM	0115249980	8/1/2017	7:40:05 AM	28	-3.55	36	30	742	
1422 DW NE FENCE SP.txt	8/1/2017	2:55:05 PM	0115249980	8/1/2017	7:40:05 AM	29	-8.33	35.9	31	742	
1422 DW NE FENCE SP.txt	8/1/2017	3:10:05 PM	0115249980	8/1/2017	7:40:05 AM	30	-7.8	36.5	31	742	
1422 DW NE FENCE SP.txt	8/1/2017	3:25:05 PM	0115249980	8/1/2017	7:40:05 AM	31	-5.86	35.5	33	740	
1422 DW NE FENCE SP.txt	8/1/2017	3:40:05 PM	0115249980	8/1/2017	7:40:05 AM	32	-2.52	35.4	34	740	
1422 DW NE FENCE SP.txt	8/1/2017	3:55:05 PM	0115249980	8/1/2017	7:40:05 AM	33	-8.84	35.6	30	740	

Summary of CAMP Monitoring

Beech and Bonaparte

Former Sperry Remington Site - North Portion
Elmira, New York

Unit Location	Record Date	Record Time	Unit Serial Number	Start Date	Start Time	Record #	Dust Concentration in µg/m^3	Temp	RHumidity	AtmoPressure in mm/Hg	Notes
1422 DW NE FENCE SP.txt	8/1/2017	4:10:05 PM	0115249980	8/1/2017	7:40:05 AM	34	-8.8	33.8	35	740	
1428 DW N CORN SX.txt	8/1/2017	7:55:32 AM	0115250007	8/1/2017	7:40:32 AM	1	-1.38	19.4	69	742	
1428 DW N CORN SX.txt	8/1/2017	8:10:32 AM	0115250007	8/1/2017	7:40:32 AM	2	3.21	21.3	66	742	
1428 DW N CORN SX.txt	8/1/2017	8:25:32 AM	0115250007	8/1/2017	7:40:32 AM	3	0.63	22.9	62	742	
1428 DW N CORN SX.txt	8/1/2017	8:40:32 AM	0115250007	8/1/2017	7:40:32 AM	4	-2.91	23.8	59	742	
1428 DW N CORN SX.txt	8/1/2017	8:55:32 AM	0115250007	8/1/2017	7:40:32 AM	5	-3.69	24.8	58	744	
1428 DW N CORN SX.txt	8/1/2017	9:10:32 AM	0115250007	8/1/2017	7:40:32 AM	6	-4.18	26.1	55	744	
1428 DW N CORN SX.txt	8/1/2017	9:25:32 AM	0115250007	8/1/2017	7:40:32 AM	7	-4.37	27.6	51	744	
1428 DW N CORN SX.txt	8/1/2017	9:40:32 AM	0115250007	8/1/2017	7:40:32 AM	8	-4.19	28.7	49	744	
1428 DW N CORN SX.txt	8/1/2017	9:55:32 AM	0115250007	8/1/2017	7:40:32 AM	9	-4.11	30.1	46	744	
1428 DW N CORN SX.txt	8/1/2017	10:10:32 AM	0115250007	8/1/2017	7:40:32 AM	10	-3.37	31.6	43	744	
1428 DW N CORN SX.txt	8/1/2017	10:25:32 AM	0115250007	8/1/2017	7:40:32 AM	11	-2.91	33.4	39	744	
1428 DW N CORN SX.txt	8/1/2017	10:40:32 AM	0115250007	8/1/2017	7:40:32 AM	12	-0.24	34.9	37	744	
1428 DW N CORN SX.txt	8/1/2017	10:55:32 AM	0115250007	8/1/2017	7:40:32 AM	13	-2.62	35.7	35	744	
1428 DW N CORN SX.txt	8/1/2017	11:10:32 AM	0115250007	8/1/2017	7:40:32 AM	14	1.91	36.6	34	744	
1428 DW N CORN SX.txt	8/1/2017	11:25:32 AM	0115250007	8/1/2017	7:40:32 AM	15	-2.23	37.5	32	744	
1428 DW N CORN SX.txt	8/1/2017	11:40:32 AM	0115250007	8/1/2017	7:40:32 AM	16	-1.14	37.4	32	744	
1428 DW N CORN SX.txt	8/1/2017	11:55:32 AM	0115250007	8/1/2017	7:40:32 AM	17	0.17	37.5	32	744	
1428 DW N CORN SX.txt	8/1/2017	12:10:32 PM	0115250007	8/1/2017	7:40:32 AM	18	-0.71	37.9	32	744	
1428 DW N CORN SX.txt	8/1/2017	12:25:32 PM	0115250007	8/1/2017	7:40:32 AM	19	-0.6	37.6	32	744	
1428 DW N CORN SX.txt	8/1/2017	12:40:32 PM	0115250007	8/1/2017	7:40:32 AM	20	0.27	37.4	32	744	
1428 DW N CORN SX.txt	8/1/2017	12:55:32 PM	0115250007	8/1/2017	7:40:32 AM	21	-0.38	37.9	31	744	
1428 DW N CORN SX.txt	8/1/2017	1:10:32 PM	0115250007	8/1/2017	7:40:32 AM	22	-2.53	37.6	30	744	
1428 DW N CORN SX.txt	8/1/2017	1:25:32 PM	0115250007	8/1/2017	7:40:32 AM	23	-2.28	37.1	30	744	
1428 DW N CORN SX.txt	8/1/2017	1:40:32 PM	0115250007	8/1/2017	7:40:32 AM	24	-2.55	37.3	30	744	
1428 DW N CORN SX.txt	8/1/2017	1:55:32 PM	0115250007	8/1/2017	7:40:32 AM	25	-1.11	37.5	29	744	
1428 DW N CORN SX.txt	8/1/2017	2:10:32 PM	0115250007	8/1/2017	7:40:32 AM	26	-1.91	38.6	28	744	
1428 DW N CORN SX.txt	8/1/2017	2:25:32 PM	0115250007	8/1/2017	7:40:32 AM	27	-1.51	38.4	28	742	
1428 DW N CORN SX.txt	8/1/2017	2:40:32 PM	0115250007	8/1/2017	7:40:32 AM	28	-2.04	36.9	30	742	
1428 DW N CORN SX.txt	8/1/2017	2:55:32 PM	0115250007	8/1/2017	7:40:32 AM	29	-0.18	36.1	31	742	
1428 DW N CORN SX.txt	8/1/2017	3:10:32 PM	0115250007	8/1/2017	7:40:32 AM	30	-1.16	35.6	32	742	
1428 DW N CORN SX.txt	8/1/2017	3:25:32 PM	0115250007	8/1/2017	7:40:32 AM	31	23.9	34.3	34	742	
1428 DW N CORN SX.txt	8/1/2017	3:40:32 PM	0115250007	8/1/2017	7:40:32 AM	32	2.28	34.1	35	742	
1428 DW N CORN SX.txt	8/1/2017	3:55:32 PM	0115250007	8/1/2017	7:40:32 AM	33	-1.03	33.9	35	742	
1428 DW N CORN SX.txt	8/1/2017	4:10:32 PM	0115250007	8/1/2017	7:40:32 AM	34	0.57	33.4	35	742	
1428 DW N CORN SX.txt	8/1/2017	4:25:32 PM	0115250007	8/1/2017	7:40:32 AM	35	13.41	33.2	40	742	
1428 DW N CORN SX.txt	8/1/2017	4:40:32 PM	0115250007	8/1/2017	7:40:32 AM	36	11.4	33.1	41	742	
1429 DW N CENTER SX.txt	8/1/2017	7:52:56 AM	0115250009	8/1/2017	7:37:56 AM	1	3.1	19.1	68	742	
1429 DW N CENTER SX.txt	8/1/2017	8:07:56 AM	0115250009	8/1/2017	7:37:56 AM	2	2.82	20.4	65	742	
1429 DW N CENTER SX.txt	8/1/2017	8:22:56 AM	0115250009	8/1/2017	7:37:56 AM	3	8.23	21.8	61	742	
1429 DW N CENTER SX.txt	8/1/2017	8:37:56 AM	0115250009	8/1/2017	7:37:56 AM	4	2.22	22.8	60	742	
1429 DW N CENTER SX.txt	8/1/2017	8:52:56 AM	0115250009	8/1/2017	7:37:56 AM	5	0.93	23.7	58	742	
1429 DW N CENTER SX.txt	8/1/2017	9:07:56 AM	0115250009	8/1/2017	7:37:56 AM	6	0.17	24.4	57	744	
1429 DW N CENTER SX.txt	8/1/2017	9:22:56 AM	0115250009	8/1/2017	7:37:56 AM	7	1.53	25.3	55	744	
1429 DW N CENTER SX.txt	8/1/2017	9:37:56 AM	0115250009	8/1/2017	7:37:56 AM	8	0.43	26	53	744	
1429 DW N CENTER SX.txt	8/1/2017	9:52:56 AM	0115250009	8/1/2017	7:37:56 AM	9	1.01	26.9	51	744	
1429 DW N CENTER SX.txt	8/1/2017	10:07:56 AM	0115250009	8/1/2017	7:37:56 AM	10	1.83	28	49	744	
1429 DW N CENTER SX.txt	8/1/2017	10:22:56 AM	0115250009	8/1/2017	7:37:56 AM	11	2.83	28.7	47	744	
1429 DW N CENTER SX.txt	8/1/2017	10:37:56 AM	0115250009	8/1/2017	7:37:56 AM	12	7.39	29.3	46	744	
1429 DW N CENTER SX.txt	8/1/2017	10:52:56 AM	0115250009	8/1/2017	7:37:56 AM	13	3.24	29.7	44	744	
1429 DW N CENTER SX.txt	8/1/2017	11:07:56 AM	0115250009	8/1/2017	7:37:56 AM	14	8.27	30.5	43	744	
1429 DW N CENTER SX.txt	8/1/2017	11:22:56 AM	0115250009	8/1/2017	7:37:56 AM	15	3	31.3	41	744	
1429 DW N CENTER SX.txt	8/1/2017	11:37:56 AM	0115250009	8/1/2017	7:37:56 AM	16	3.81	31.9	39	744	
1429 DW N CENTER SX.txt	8/1/2017	11:52:56 AM	0115250009	8/1/2017	7:37:56 AM	17	9.25	32.3	39	744	
1429 DW N CENTER SX.txt	8/1/2017	12:07:56 PM	0115250009	8/1/2017	7:37:56 AM	18	5.19	32.4	38	744	
1429 DW N CENTER SX.txt	8/1/2017	12:22:56 PM	0115250009	8/1/2017	7:37:56 AM	19	4.45	32.8	37	742	
1429 DW N CENTER SX.txt	8/1/2017	12:37:56 PM	0115250009	8/1/2017	7:37:56 AM	20	11.58	32.9	36	742	
1429 DW N CENTER SX.txt	8/1/2017	12:52:56 PM	0115250009	8/1/2017	7:37:56 AM	21	5.11	33.8	35	742	
1429 DW N CENTER SX.txt	8/1/2017	1:07:56 PM	0115250009	8/1/2017	7:37:56 AM	22	7.52	35.1	31	742	
1429 DW N CENTER SX.txt	8/1/2017	1:22:56 PM	0115250009	8/1/2017	7:37:56 AM	23	1.73	36.2	29	742	
1429 DW N CENTER SX.txt	8/1/2017	1:37:56 PM	0115250009	8/1/2017	7:37:56 AM	24	1.63	37.2	27	742	
1429 DW N CENTER SX.txt	8/1/2017	1:52:56 PM	0115250009	8/1/2017	7:37:56 AM	25	1.4	37.8	26	742	
1429 DW N CENTER SX.txt	8/1/2017	2:07:56 PM	0115250009	8/1/2017	7:37:56 AM	26	2.6	38.8	25	742	
1429 DW N CENTER SX.txt	8/1/2017	2:22:56 PM	0115250009	8/1/2017	7:37:56 AM	27	2.9	38.8	25	742	
1429 DW N CENTER SX.txt	8/1/2017	2:37:56 PM	0115250009	8/1/2017	7:37:56 AM	28	9.85	38.2	25	742	
1429 DW N CENTER SX.txt	8/1/2017	2:52:56 PM	0115250009	8/1/2017	7:37:56 AM	29	5.56	38.4	26	742	
1429 DW N CENTER SX.txt	8/1/2017	3:07:56 PM	0115250009	8/1/2017	7:37:56 AM	30	4.72	38.6	25	742	
1429 DW N CENTER SX.txt	8/1/2017	3:22:56 PM	0115250009	8/1/2017	7:37:56 AM	31	9.9	37.5	26	742	
1429 DW N CENTER SX.txt	8/1/2017	3:37:56 PM	0115250009	8/1/2017	7:37:56 AM	32	6.55	37.3	27	742	
1429 DW N CENTER SX.txt	8/1/2017	3:52:56 PM	0115250009	8/1/2017	7:37:56 AM	33	2.46	37.5	26	742	
1429 DW N CENTER SX.txt	8/1/2017	4:07:56 PM	0115250009	8/1/2017	7:37:56 AM	34	2.68	35.8	29	742	
1429 DW N CENTER SX.txt	8/1/2017	4:22:56 PM	0115250009	8/1/2017	7:37:56 AM	35	36.81	34.6	34	742	
1429 DW N CENTER SX.txt	8/1/2017	4:37:56 PM	0115250009	8/1/2017	7:37:56 AM	36	32.07	34.1	37	742	
1860 DW NW FENCE SP.txt	8/1/2017	7:51:31 AM	0115250203	8/1/2017	7:36:31 AM	1	-17.21	20.5	65	742	
1860 DW NW FENCE SP.txt	8/1/2017	8:06:31 AM	0115250203	8/1/2017	7:36:31 AM	2	-19.55	24.3	57	742	
1860 DW NW FENCE SP.txt	8/1/2017	8:21:31 AM	0115250203	8/1/2017	7:36:31 AM	3	-19.51	26.4	50	742	
1860 DW NW FENCE SP.txt	8/1/2017	8:36:31 AM	0115250203	8/1/2017	7:36:31 AM	4	-19.86	28	47	742	
1860 DW NW FENCE SP.txt	8/1/2017	8:51:31 AM	0115250203	8/1/2017	7:36:31 AM	5	-20.53	29.7	44	742	
1860 DW NW FENCE SP.txt	8/1/2017	9:06:31 AM	0115250203	8/1/2017	7:36:31 AM	6	-19.43	31.6	40	742	
1860 DW NW FENCE SP.txt	8/1/2017	9:21:31 AM	0115250203	8/1/2017	7:36:31 AM	7	-20.22	32.6	38	742	
1860 DW NW FENCE SP.txt	8/1/2017	9:36:31 AM	0115250203	8/1/2017	7:36:31 AM	8	-20.02	33.6	37	742	
1860 DW NW FENCE SP.txt	8/1/2017	9:51:31 AM	0115250203	8/1/2017	7:36:31 AM	9	-19.09	34.5	35	742	
1860 DW NW FENCE SP.txt	8/1/2017	10:06:31 AM	0115250203	8/1/2017	7:36:31 AM	10	-18.6	35.5	34	742	
1860 DW NW FENCE SP.txt	8/1/2017	10:21:31 AM	0115250203	8/1/2017	7:36:31 AM	11	-18.3	36	33	742	
1860 DW NW FENCE SP.txt	8/1/2017	10:36:31 AM	0115250203	8/1/2017	7:36:31 AM	12	-18.02	36.5	32	742	
1860 DW NW FENCE SP.txt	8/1/2017	10:51:31 AM	0115250203	8/1/2017	7:36:31 AM	13	-17.98	36.7	32	742	
1860 DW NW FENCE SP.txt	8/1/2017	11:06:31 AM	0115250203	8/1/2017	7:36:31 AM	14	-17.66	37.3	31	742	
1860 DW NW FENCE SP.txt	8/1/2017	11:21:31 AM	0115250203	8/1/2017	7:36:31 AM	15	-15.42	37.6	31	742	
1860 DW NW FENCE SP.txt	8/1/2017	11:36:31 AM	0115250203	8/1/2017	7:36:31 AM	16	-16.53	38.1	30	742	
1860 DW NW FENCE SP.txt	8/1/2017	11:51:31 AM	0115250203	8/1/2017	7:36:31 AM	17	-16.23	38.4	30	742	
1860 DW NW FENCE SP.txt	8/1/2017	12:06:31 PM	0115250203	8/1/2017	7:36:31 AM	18	-26.28	39.4	28	742	
1860 DW NW FENCE SP.txt	8/1/2017	12:21:31 PM	0115250203	8/1/2017	7:36:31 AM	19	-35.16	39.4	28	742	
1860 DW NW FENCE SP.txt	8/1/2017	12:36:31 PM	0115250203	8/1/2017	7:36:31 AM	20	-35.46	38.7	29	742	
1860 DW NW FENCE SP.txt	8/1/2017	12:51:31 PM	0115250203	8/1/2017	7:36:31 AM	21	-35.51	38.9	28	742	
1860 DW NW FENCE SP.txt	8/1/2017	1:06:31 PM	0115250203	8/1/2017	7:36:31 AM	22	-35.22	37.5	29	742	
1860 DW NW FENCE SP.txt	8/1/2017	1:21:31 PM	0115250203	8/1/2017	7:36:31 AM	23	-35.6	37.8	29	742	
1860 DW NW FENCE SP.txt	8/1/2017	1:36:31 PM	0115250203	8/1/2017	7:36:31 AM	24	-33.87	38	27	742	
1860 DW NW FENCE SP.txt	8/1/2017	1:51:31 PM	0115250203	8/1/2017	7:36:31 AM	25	-36.55	36.8	28	742	
1860 DW NW FENCE SP.txt	8/1/2017	2:06:31 PM	0115250203	8/1/2017	7:36:31 AM	26	-35.88	36.6	31	742	
1860 DW NW FENCE SP.txt	8/1/2017	2:21:31 PM	0115250203	8/1/2017	7:36:31 AM	27	-36.81	37	29	742	
1860 DW NW FENCE SP.txt	8/1/2017	2:36:31 PM	0115250203	8/1/2017	7:36:31 AM	28	-36.91	36.9	29	742	
1936 DW NW CORN SP.txt	8/1/2017	7:56:34 AM	0115250202	8/1/2017	7:41:34 AM	1	-27.82	19.2	69	742	
1936 DW NW CORN SP.txt	8/1/2017	8:11:34 AM	0115250202	8/1/2017	7:41:34 AM	2	-26.68	20	69	742	
1936 DW NW CORN SP.txt	8/1/2017	8:26:34 AM	0115250202	8/1/2017	7:41:34 AM	3	-25.01	20.5	68	742	
1936 DW NW CORN SP.txt	8/1/2017	8:41:34 AM	0115250202	8/1/2017	7:41:34 AM	4	-26.69	21.4	67	742	
1936 DW NW CORN SP.txt	8/1/2017	8:56:34 AM	0115250202	8/1/2017	7:41:34 AM	5	-26.72	23.3	63	744	
1936 DW NW CORN SP.txt	8/1/2017	9:11:34 AM	0115250202	8/1/2017	7:41:34 AM	6	-26.62	25.7	57	744	
1936 DW NW CORN SP.txt	8/1/2017	9:26:34 AM	0115250202	8/1/2017	7:41:34 AM	7	-26.92	27	52	744	
1936 DW NW CORN SP.txt	8/1/2017	9:41:34 AM	0115250202	8/1/2017	7:41:34 AM	8	-26.84	27.9	52	744	
1936 DW NW CORN SP.txt	8/1/2017	9:56:34 AM	0115250202	8/1/2017	7:41:34 AM	9	-26.96	29.3	49	744	
1936 DW NW CORN SP.txt	8/1/2017	10:11:34 AM	0115250202	8/1/2017	7:41:34 AM	10	-25.65	30.8	45	744	
1936 DW NW CORN SP.txt	8/1/2017	10:26:34 AM	0115250202	8/1/2017	7:41:34 AM	11	-23.36	31.9	41	744	
1936 DW NW CORN SP.txt	8/1/2017	10:41:34 AM	0115250202	8/1/2017	7:41:34 AM	12	-24.88	32.6	42	744	
1936 DW NW CORN SP.txt	8/1/2017	10:56:34 AM	0115250202	8/1/2017	7:41:34 AM	13	-21.05	33.2	41	744	
1936 DW NW CORN SP.txt	8/1/2017	11:11:34 AM	0115250202	8/1/2017	7:41:34 AM	14	-23.43	33.8	39	744	
1936 DW NW CORN SP.txt	8/1/2017	11:26:34 AM	0115250202	8/1/2017	7:41:34 AM	15	-23.22	34.2	38	744	
1936 DW NW CORN SP.txt	8/1/2017	11:41:34 AM	0115250202	8/1/2017	7:41:34 AM	16	-17.95	34.3	37	744	
1936 DW NW CORN SP.txt	8/1/2017	11:56:34 AM	0115250202	8/1/2017	7:41:34 AM	17	-22.87	34.7	38	744	
1936 DW NW CORN SP.txt	8/1/2017	12:11:34 PM	0115250202	8/1/2017	7:41:34 AM	18	-20.83	35.8	36	744	
1936 DW NW CORN SP.txt	8/1/2017	12:26:34 PM	0115250202	8/1/2017	7:41:34 AM	19	-22.05	36.2	36	744	
1936 DW NW CORN SP.txt	8/1/2017	12:41:34 PM	0115250202	8/1/2017	7:41:34 AM	20	-22.54	37.1	34	744	
1936 DW NW CORN SP.txt	8/1/2017	12:56:34 PM	0115250202	8/1/2017	7:41:34 AM	21	-20.17	37.7	33	744	
1936 DW NW CORN SP.txt	8/1/2017	1:11:34 PM	0115250202	8/1/2017	7:41:34 AM	22	-22.37	37.9	31	744	
1936 DW NW CORN SP.txt	8/1/2017	1:26:34 PM	0115250202	8/1/2017	7:41:34 AM	23	-22.75	39.4	29	744	
1936 DW NW CORN SP.txt	8/1/2017	1:41:34 PM	0115250202	8/1/2017	7:41:34 AM	24	-19.31	40.3	27	744	
1936 DW NW CORN SP.txt	8/1/2017	1:56:34 PM	0115250202	8/1/2017	7:41:34 AM	25	-21.39	40.4	28	744	
1936 DW NW CORN SP.txt	8/1/2017	2:11:34 PM	0115250202	8/1/2017	7:41:34 AM	26	-23.86	40.8	27	742	
1936 DW NW CORN SP.txt	8/1/2017	2:26:34 PM	0115250202	8/1/2017	7:41:34 AM	27	-23.41	40.4	26	742	

Summary of CAMP Monitoring

Beech and Bonaparte

Former Sperry Remington Site - North Portion
Elmira, New York

Unit Location	Record Date	Record Time	Unit Serial Number	Start Date	Start Time	Record #	Dust Concentration in µg/m^3	Temp	RHumidity	AtmoPressure in mm/Hg	Notes
1936 DW NW CORN SP.txt	8/1/2017	2:41:34 PM	0115250202	8/1/2017	7:41:34 AM	28	-22.76	39.6	27	742	
1936 DW NW CORN SP.txt	8/1/2017	2:56:34 PM	0115250202	8/1/2017	7:41:34 AM	29	-23.09	40.2	28	742	
1936 DW NW CORN SP.txt	8/1/2017	3:11:34 PM	0115250202	8/1/2017	7:41:34 AM	30	-21.81	40.3	27	742	
1936 DW NW CORN SP.txt	8/1/2017	3:26:34 PM	0115250202	8/1/2017	7:41:34 AM	31	-22.53	37.3	30	742	
1936 DW NW CORN SP.txt	8/1/2017	3:41:34 PM	0115250202	8/1/2017	7:41:34 AM	32	-23.27	36.9	31	742	
1936 DW NW CORN SP.txt	8/1/2017	3:56:34 PM	0115250202	8/1/2017	7:41:34 AM	33	-23.71	36.5	31	742	
1936 DW NW CORN SP.txt	8/1/2017	4:11:34 PM	0115250202	8/1/2017	7:41:34 AM	34	-23.53	34.6	34	742	
1954 UPWIND SP.txt	8/1/2017	7:52:31 AM	0115250211	8/1/2017	7:37:31 AM	1	-5.9	19.3	68	742	
1954 UPWIND SP.txt	8/1/2017	8:07:31 AM	0115250211	8/1/2017	7:37:31 AM	2	-5.61	19.9	68	742	
1954 UPWIND SP.txt	8/1/2017	8:22:31 AM	0115250211	8/1/2017	7:37:31 AM	3	-5.11	20.2	69	742	
1954 UPWIND SP.txt	8/1/2017	8:37:31 AM	0115250211	8/1/2017	7:37:31 AM	4	-5.26	20.7	69	742	
1954 UPWIND SP.txt	8/1/2017	8:52:31 AM	0115250211	8/1/2017	7:37:31 AM	5	-5.44	21.4	68	742	
1954 UPWIND SP.txt	8/1/2017	9:07:31 AM	0115250211	8/1/2017	7:37:31 AM	6	-4.49	22.3	65	742	
1954 UPWIND SP.txt	8/1/2017	9:22:31 AM	0115250211	8/1/2017	7:37:31 AM	7	-4.35	23	63	742	
1954 UPWIND SP.txt	8/1/2017	9:37:31 AM	0115250211	8/1/2017	7:37:31 AM	8	-3.93	23.7	62	742	
1954 UPWIND SP.txt	8/1/2017	9:52:31 AM	0115250211	8/1/2017	7:37:31 AM	9	-2.7	24.5	59	742	
1954 UPWIND SP.txt	8/1/2017	10:07:31 AM	0115250211	8/1/2017	7:37:31 AM	10	-1.59	25.3	57	742	
1954 UPWIND SP.txt	8/1/2017	10:22:31 AM	0115250211	8/1/2017	7:37:31 AM	11	-0.7	26.1	54	742	
1954 UPWIND SP.txt	8/1/2017	10:37:31 AM	0115250211	8/1/2017	7:37:31 AM	12	0.74	27.1	52	742	
1954 UPWIND SP.txt	8/1/2017	10:52:31 AM	0115250211	8/1/2017	7:37:31 AM	13	0.78	27.9	51	742	
1954 UPWIND SP.txt	8/1/2017	11:07:31 AM	0115250211	8/1/2017	7:37:31 AM	14	1.5	29.4	47	742	
1954 UPWIND SP.txt	8/1/2017	11:22:31 AM	0115250211	8/1/2017	7:37:31 AM	15	4.27	30.2	44	742	
1954 UPWIND SP.txt	8/1/2017	11:37:31 AM	0115250211	8/1/2017	7:37:31 AM	16	3.51	30.6	44	742	
1954 UPWIND SP.txt	8/1/2017	11:52:31 AM	0115250211	8/1/2017	7:37:31 AM	17	4.51	31.7	42	742	
1954 UPWIND SP.txt	8/1/2017	12:07:31 PM	0115250211	8/1/2017	7:37:31 AM	18	5.04	32.5	40	742	
1954 UPWIND SP.txt	8/1/2017	12:22:31 PM	0115250211	8/1/2017	7:37:31 AM	19	5.97	32.9	39	742	
1954 UPWIND SP.txt	8/1/2017	12:37:31 PM	0115250211	8/1/2017	7:37:31 AM	20	5.49	33.2	38	742	
1954 UPWIND SP.txt	8/1/2017	12:52:31 PM	0115250211	8/1/2017	7:37:31 AM	21	5.83	34.1	36	742	
1954 UPWIND SP.txt	8/1/2017	1:07:31 PM	0115250211	8/1/2017	7:37:31 AM	22	5.94	34.4	35	742	
1954 UPWIND SP.txt	8/1/2017	1:22:31 PM	0115250211	8/1/2017	7:37:31 AM	23	5.32	35.3	33	742	
1954 UPWIND SP.txt	8/1/2017	1:37:31 PM	0115250211	8/1/2017	7:37:31 AM	24	7.39	36	31	742	
1954 UPWIND SP.txt	8/1/2017	1:52:31 PM	0115250211	8/1/2017	7:37:31 AM	25	6.1	35.2	31	742	
1954 UPWIND SP.txt	8/1/2017	2:07:31 PM	0115250211	8/1/2017	7:37:31 AM	26	5.94	35.4	33	742	
1954 UPWIND SP.txt	8/1/2017	2:22:31 PM	0115250211	8/1/2017	7:37:31 AM	27	4.29	36	31	742	
1954 UPWIND SP.txt	8/1/2017	2:37:31 PM	0115250211	8/1/2017	7:37:31 AM	28	5.38	36.9	29	742	
1954 UPWIND SP.txt	8/1/2017	2:52:31 PM	0115250211	8/1/2017	7:37:31 AM	29	6.23	37.2	29	742	
1954 UPWIND SP.txt	8/1/2017	3:07:31 PM	0115250211	8/1/2017	7:37:31 AM	30	9.46	36.2	30	742	
1954 UPWIND SP.txt	8/1/2017	3:22:31 PM	0115250211	8/1/2017	7:37:31 AM	31	5.55	34.5	34	742	
1954 UPWIND SP.txt	8/1/2017	3:37:31 PM	0115250211	8/1/2017	7:37:31 AM	32	5.62	34.1	36	740	
1954 UPWIND SP.txt	8/1/2017	3:52:31 PM	0115250211	8/1/2017	7:37:31 AM	33	5.35	34.8	32	740	
1954 UPWIND SP.txt	8/1/2017	4:07:31 PM	0115250211	8/1/2017	7:37:31 AM	34	5.19	34.3	34	740	
1954 UPWIND SP.txt	8/1/2017	4:22:31 PM	0115250211	8/1/2017	7:37:31 AM	35	4.92	33.9	37	740	
1954 UPWIND SP.txt	8/1/2017	4:37:31 PM	0115250211	8/1/2017	7:37:31 AM	36	4.32	33.9	40	740	
2535 UPWIND SX.txt	8/1/2017	8:01:03 AM	CM15111015	8/1/2017	7:46:03 AM	1	-22.88	20.3	61	742	
2535 UPWIND SX.txt	8/1/2017	8:16:03 AM	CM15111015	8/1/2017	7:46:03 AM	2	-22.52	21.2	61	744	
2535 UPWIND SX.txt	8/1/2017	8:31:03 AM	CM15111015	8/1/2017	7:46:03 AM	3	-22.48	22.1	60	744	
2535 UPWIND SX.txt	8/1/2017	8:46:03 AM	CM15111015	8/1/2017	7:46:03 AM	4	-23.84	23.3	57	744	
2535 UPWIND SX.txt	8/1/2017	9:01:03 AM	CM15111015	8/1/2017	7:46:03 AM	5	-21.9	24.3	55	744	
2535 UPWIND SX.txt	8/1/2017	9:16:03 AM	CM15111015	8/1/2017	7:46:03 AM	6	-10.46	25.3	53	744	
2535 UPWIND SX.txt	8/1/2017	9:31:03 AM	CM15111015	8/1/2017	7:46:03 AM	7	-26.64	26.3	50	744	
2535 UPWIND SX.txt	8/1/2017	9:46:03 AM	CM15111015	8/1/2017	7:46:03 AM	8	-18.88	27.5	48	744	
2535 UPWIND SX.txt	8/1/2017	10:01:03 AM	CM15111015	8/1/2017	7:46:03 AM	9	-3.96	28.5	45	744	
2535 UPWIND SX.txt	8/1/2017	10:16:03 AM	CM15111015	8/1/2017	7:46:03 AM	10	-22.5	29.3	43	744	
2535 UPWIND SX.txt	8/1/2017	10:31:03 AM	CM15111015	8/1/2017	7:46:03 AM	11	-24.38	30.1	42	744	
2535 UPWIND SX.txt	8/1/2017	10:46:03 AM	CM15111015	8/1/2017	7:46:03 AM	12	8.19	30.7	41	744	
2535 UPWIND SX.txt	8/1/2017	11:01:03 AM	CM15111015	8/1/2017	7:46:03 AM	13	-16.58	31.3	39	744	
2535 UPWIND SX.txt	8/1/2017	11:16:03 AM	CM15111015	8/1/2017	7:46:03 AM	14	-23.02	31.9	37	744	
2535 UPWIND SX.txt	8/1/2017	11:31:03 AM	CM15111015	8/1/2017	7:46:03 AM	15	-8.82	32.6	37	744	
2535 UPWIND SX.txt	8/1/2017	11:46:03 AM	CM15111015	8/1/2017	7:46:03 AM	16	-21.11	32.9	36	744	
2535 UPWIND SX.txt	8/1/2017	12:01:03 PM	CM15111015	8/1/2017	7:46:03 AM	17	-21.77	33.1	35	744	
2535 UPWIND SX.txt	8/1/2017	12:16:03 PM	CM15111015	8/1/2017	7:46:03 AM	18	-22.39	33.4	35	744	
2535 UPWIND SX.txt	8/1/2017	12:31:03 PM	CM15111015	8/1/2017	7:46:03 AM	19	-22.08	33.9	34	744	
2535 UPWIND SX.txt	8/1/2017	12:46:03 PM	CM15111015	8/1/2017	7:46:03 AM	20	-9.65	34.8	32	744	
2535 UPWIND SX.txt	8/1/2017	1:01:03 PM	CM15111015	8/1/2017	7:46:03 AM	21	-7.86	35.7	29	744	
2535 UPWIND SX.txt	8/1/2017	1:16:03 PM	CM15111015	8/1/2017	7:46:03 AM	22	2.8	36	28	744	
2535 UPWIND SX.txt	8/1/2017	1:31:03 PM	CM15111015	8/1/2017	7:46:03 AM	23	56.02	37.2	26	744	
2535 UPWIND SX.txt	8/1/2017	1:46:03 PM	CM15111015	8/1/2017	7:46:03 AM	24	20.2	38.3	26	744	
2535 UPWIND SX.txt	8/1/2017	2:01:03 PM	CM15111015	8/1/2017	7:46:03 AM	25	-18.06	38.8	25	744	
2535 UPWIND SX.txt	8/1/2017	2:16:03 PM	CM15111015	8/1/2017	7:46:03 AM	26	-1.27	39.4	22	744	
2535 UPWIND SX.txt	8/1/2017	2:31:03 PM	CM15111015	8/1/2017	7:46:03 AM	27	52.6	39.4	22	744	
2535 UPWIND SX.txt	8/1/2017	2:46:03 PM	CM15111015	8/1/2017	7:46:03 AM	28	12.6	39.4	23	744	
2535 UPWIND SX.txt	8/1/2017	3:01:03 PM	CM15111015	8/1/2017	7:46:03 AM	29	2.01	39.7	21	744	
2535 UPWIND SX.txt	8/1/2017	3:16:03 PM	CM15111015	8/1/2017	7:46:03 AM	30	-8.53	38.7	24	742	
2535 UPWIND SX.txt	8/1/2017	3:31:03 PM	CM15111015	8/1/2017	7:46:03 AM	31	-23.1	37.3	26	742	
2535 UPWIND SX.txt	8/1/2017	3:46:03 PM	CM15111015	8/1/2017	7:46:03 AM	32	-24.66	38	25	742	
2535 UPWIND SX.txt	8/1/2017	4:01:03 PM	CM15111015	8/1/2017	7:46:03 AM	33	-22.62	36.6	27	742	
2535 UPWIND SX.txt	8/1/2017	4:16:03 PM	CM15111015	8/1/2017	7:46:03 AM	34	-8.68	35	30	742	
2535 UPWIND SX.txt	8/1/2017	4:31:03 PM	CM15111015	8/1/2017	7:46:03 AM	35	-17.76	34.4	36	742	
2980 DW NE CORN SP.txt	8/1/2017	7:56:11 AM	CM15111014	8/1/2017	7:41:11 AM	1	-15.06	20.3	67	744	
2980 DW NE CORN SP.txt	8/1/2017	8:11:11 AM	CM15111014	8/1/2017	7:41:11 AM	2	-6.2	19.6	73	744	
2980 DW NE CORN SP.txt	8/1/2017	8:26:11 AM	CM15111014	8/1/2017	7:41:11 AM	3	-7.36	19	77	744	
2980 DW NE CORN SP.txt	8/1/2017	8:41:11 AM	CM15111014	8/1/2017	7:41:11 AM	4	-10.81	18.9	79	744	
2980 DW NE CORN SP.txt	8/1/2017	8:56:11 AM	CM15111014	8/1/2017	7:41:11 AM	5	-11.09	19.4	80	744	
2980 DW NE CORN SP.txt	8/1/2017	9:11:11 AM	CM15111014	8/1/2017	7:41:11 AM	6	-7.77	20.5	77	744	
2980 DW NE CORN SP.txt	8/1/2017	9:26:11 AM	CM15111014	8/1/2017	7:41:11 AM	7	-13.12	21.8	72	744	
2980 DW NE CORN SP.txt	8/1/2017	9:41:11 AM	CM15111014	8/1/2017	7:41:11 AM	8	-9.35	24.4	65	744	
2980 DW NE CORN SP.txt	8/1/2017	9:56:11 AM	CM15111014	8/1/2017	7:41:11 AM	9	-16.44	27.7	55	744	
2980 DW NE CORN SP.txt	8/1/2017	10:11:11 AM	CM15111014	8/1/2017	7:41:11 AM	10	-17.89	30.6	47	744	
2980 DW NE CORN SP.txt	8/1/2017	10:26:11 AM	CM15111014	8/1/2017	7:41:11 AM	11	-12.83	32.5	43	744	
2980 DW NE CORN SP.txt	8/1/2017	10:41:11 AM	CM15111014	8/1/2017	7:41:11 AM	12	-11.44	34.4	39	744	
2980 DW NE CORN SP.txt	8/1/2017	10:56:11 AM	CM15111014	8/1/2017	7:41:11 AM	13	-10.34	35.3	37	744	
2980 DW NE CORN SP.txt	8/1/2017	11:11:11 AM	CM15111014	8/1/2017	7:41:11 AM	14	-8.61	35.8	36	744	
2980 DW NE CORN SP.txt	8/1/2017	11:26:11 AM	CM15111014	8/1/2017	7:41:11 AM	15	-13.18	36.2	34	744	
2980 DW NE CORN SP.txt	8/1/2017	11:41:11 AM	CM15111014	8/1/2017	7:41:11 AM	16	-2.5	36.4	34	744	
2980 DW NE CORN SP.txt	8/1/2017	11:56:11 AM	CM15111014	8/1/2017	7:41:11 AM	17	-8.85	36.9	34	744	
2980 DW NE CORN SP.txt	8/1/2017	12:11:11 PM	CM15111014	8/1/2017	7:41:11 AM	18	-15	38.5	32	744	
2980 DW NE CORN SP.txt	8/1/2017	12:26:11 PM	CM15111014	8/1/2017	7:41:11 AM	19	-15.2	39.3	29	744	
2980 DW NE CORN SP.txt	8/1/2017	12:41:11 PM	CM15111014	8/1/2017	7:41:11 AM	20	-16.01	39.7	29	744	
2980 DW NE CORN SP.txt	8/1/2017	12:56:11 PM	CM15111014	8/1/2017	7:41:11 AM	21	-8.61	40	28	744	
2980 DW NE CORN SP.txt	8/1/2017	1:11:11 PM	CM15111014	8/1/2017	7:41:11 AM	22	-14.12	40.2	27	744	
2980 DW NE CORN SP.txt	8/1/2017	1:26:11 PM	CM15111014	8/1/2017	7:41:11 AM	23	-10.21	41.1	25	744	
2980 DW NE CORN SP.txt	8/1/2017	1:41:11 PM	CM15111014	8/1/2017	7:41:11 AM	24	-6.7	42.2	23	744	
2980 DW NE CORN SP.txt	8/1/2017	1:56:11 PM	CM15111014	8/1/2017	7:41:11 AM	25	-12.51	42.2	24	744	
2980 DW NE CORN SP.txt	8/1/2017	2:11:11 PM	CM15111014	8/1/2017	7:41:11 AM	26	-17.46	42.6	24	744	
2980 DW NE CORN SP.txt	8/1/2017	2:26:11 PM	CM15111014	8/1/2017	7:41:11 AM	27	-11.83	42.6	22	744	
2980 DW NE CORN SP.txt	8/1/2017	2:41:11 PM	CM15111014	8/1/2017	7:41:11 AM	28	-15.36	41.6	22	742	
2980 DW NE CORN SP.txt	8/1/2017	2:56:11 PM	CM15111014	8/1/2017	7:41:11 AM	29	-9.97	41.7	24	742	
2980 DW NE CORN SP.txt	8/1/2017	3:11:11 PM	CM15111014	8/1/2017	7:41:11 AM	30	-2.89	41.7	24	742	
2980 DW NE CORN SP.txt	8/1/2017	3:26:11 PM	CM15111014	8/1/2017	7:41:11 AM	31	-12.02	38.5	28	742	
2980 DW NE CORN SP.txt	8/1/2017	3:41:11 PM	CM15111014	8/1/2017	7:41:11 AM	32	-15.78	37.4	29	742	
2980 DW NE CORN SP.txt	8/1/2017	3:56:11 PM	CM15111014	8/1/2017	7:41:11 AM	33	-12.92	37	29	742	
2980 DW NE CORN SP.txt	8/1/2017	4:11:11 PM	CM15111014	8/1/2017	7:41:11 AM	34	-12.49	35.5	33	742	
1421 DW NW CORNER SX.txt	8/2/2017	7:44:54 AM	0115249975	8/2/2017	7:29:54 AM	1	-10.07	19.6	70	742	
1421 DW NW CORNER SX.txt	8/2/2017	7:59:54 AM	0115249975	8/2/2017	7:29:54 AM	2	-8.95	20.1	69	742	
1421 DW NW CORNER SX.txt	8/2/2017	8:14:54 AM	0115249975	8/2/2017	7:29:54 AM	3	-9.62	20.7	67	742	
1421 DW NW CORNER SX.txt	8/2/2017	8:29:54 AM	0115249975	8/2/2017	7:29:54 AM	4	-15.03	22.2	64	742	
1421 DW NW CORNER SX.txt	8/2/2017	8:44:54 AM	0115249975	8/2/2017	7:29:54 AM	5	-14.85	24.5	56	742	
1421 DW NW CORNER SX.txt	8/2/2017	8:59:54 AM	0115249975	8/2/2017	7:29:54 AM	6	-17.73	26.5	50	742	
1421 DW NW CORNER SX.txt	8/2/2017	9:14:54 AM	0115249975	8/2/2017	7:29:54 AM	7	-16.68	28.4	45	742	
1421 DW NW CORNER SX.txt	8/2/2017	9:29:54 AM	0115249975	8/2/2017	7:29:54 AM	8	-18.16	28.8	44	742	
1421 DW NW CORNER SX.txt	8/2/2017	9:44:54 AM	0115249975	8/2/2017	7:29:54 AM	9	-17.76	29.2	43	742	
1421 DW NW CORNER SX.txt	8/2/2017	9:59:54 AM	0115249975	8/2/2017	7:29:54 AM	10	-16.67	29.7	42	742	
1421 DW NW CORNER SX.txt	8/2/2017	10:14:54 AM	0115249975	8/2/2017	7:29:54 AM	11	-16.81	30.3	41	742	
1421 DW NW CORNER SX.txt	8/2/2017	10:29:54 AM	0115249975	8/2/2017	7:29:54 AM	12	-17.91	31.2	40	742	
1421 DW NW CORNER SX.txt	8/2/2017	10:44:54 AM	0115249975	8/2/2017	7:29:54 AM	13	-17.46	32.1	38	742	

Former Sperry Remington Site - North Portion
Elmira, New York

Unit Location	Record Date	Record Time	Unit Serial Number	Start Date	Start Time	Record #	Dust Concentration in µg/m^3	Temp	RHumidity	AtmoPressure in mm/Hg	Notes
1421 DW NW CORNER SX.txt	8/2/2017	10:59:54 AM	0115249975	8/2/2017	7:29:54 AM	14	-15.45	32.9	37	742	
1421 DW NW CORNER SX.txt	8/2/2017	11:14:54 AM	0115249975	8/2/2017	7:29:54 AM	15	-13.32	34	37	742	
1421 DW NW CORNER SX.txt	8/2/2017	11:29:54 AM	0115249975	8/2/2017	7:29:54 AM	16	-10.29	34.7	33	742	
1421 DW NW CORNER SX.txt	8/2/2017	11:44:54 AM	0115249975	8/2/2017	7:29:54 AM	17	-17.39	35.8	28	742	
1421 DW NW CORNER SX.txt	8/2/2017	11:59:54 AM	0115249975	8/2/2017	7:29:54 AM	18	-16.42	36.7	26	742	
1421 DW NW CORNER SX.txt	8/2/2017	12:14:54 PM	0115249975	8/2/2017	7:29:54 AM	19	-16.93	37.4	24	742	
1421 DW NW CORNER SX.txt	8/2/2017	12:29:54 PM	0115249975	8/2/2017	7:29:54 AM	20	-18.55	38.2	23	742	
1421 DW NW CORNER SX.txt	8/2/2017	12:44:54 PM	0115249975	8/2/2017	7:29:54 AM	21	-19.02	38	23	742	
1421 DW NW CORNER SX.txt	8/2/2017	12:59:54 PM	0115249975	8/2/2017	7:29:54 AM	22	-18.77	36.7	25	742	
1421 DW NW CORNER SX.txt	8/2/2017	1:14:54 PM	0115249975	8/2/2017	7:29:54 AM	23	-13.53	36.2	26	742	
1421 DW NW CORNER SX.txt	8/2/2017	1:29:54 PM	0115249975	8/2/2017	7:29:54 AM	24	-12.15	35.6	27	742	
1421 DW NW CORNER SX.txt	8/2/2017	1:44:54 PM	0115249975	8/2/2017	7:29:54 AM	25	3.02	35	30	742	
1421 DW NW CORNER SX.txt	8/2/2017	1:59:54 PM	0115249975	8/2/2017	7:29:54 AM	26	-4.31	35.3	28	740	
1421 DW NW CORNER SX.txt	8/2/2017	2:14:54 PM	0115249975	8/2/2017	7:29:54 AM	27	46.59	34.9	31	740	
1421 DW NW CORNER SX.txt	8/2/2017	2:29:54 PM	0115249975	8/2/2017	7:29:54 AM	28	-10.08	35.3	28	740	
1421 DW NW CORNER SX.txt	8/2/2017	2:44:54 PM	0115249975	8/2/2017	7:29:54 AM	29	-11.35	35.3	27	740	
1421 DW NW CORNER SX.txt	8/2/2017	2:59:54 PM	0115249975	8/2/2017	7:29:54 AM	30	-2.51	35	28	740	
1421 DW NW CORNER SX.txt	8/2/2017	3:14:54 PM	0115249975	8/2/2017	7:29:54 AM	31	1.49	35.6	27	740	
1421 DW NW CORNER SX.txt	8/2/2017	3:29:54 PM	0115249975	8/2/2017	7:29:54 AM	32	-12.71	36.4	24	740	
1421 DW NW CORNER SX.txt	8/2/2017	3:44:54 PM	0115249975	8/2/2017	7:29:54 AM	33	-16.55	36.4	25	740	
1421 DW NW CORNER SX.txt	8/2/2017	3:59:54 PM	0115249975	8/2/2017	7:29:54 AM	34	-15.49	35.3	29	740	
1421 DW NW CORNER SX.txt	8/2/2017	4:14:54 PM	0115249975	8/2/2017	7:29:54 AM	35	-10.99	35.4	27	740	
1421 DW NW CORNER SX.txt	8/2/2017	4:29:54 PM	0115249975	8/2/2017	7:29:54 AM	36	-7.62	35.9	26	740	
1422 DW NE FENCE SP.txt	8/2/2017	7:48:29 AM	0115249980	8/2/2017	7:33:29 AM	1	-12	17.8	74	742	
1422 DW NE FENCE SP.txt	8/2/2017	8:03:29 AM	0115249980	8/2/2017	7:33:29 AM	2	-11.32	17.4	77	742	
1422 DW NE FENCE SP.txt	8/2/2017	8:18:29 AM	0115249980	8/2/2017	7:33:29 AM	3	-10.73	17.1	78	742	
1422 DW NE FENCE SP.txt	8/2/2017	8:33:29 AM	0115249980	8/2/2017	7:33:29 AM	4	-10.26	17.1	80	742	
1422 DW NE FENCE SP.txt	8/2/2017	8:48:29 AM	0115249980	8/2/2017	7:33:29 AM	5	-9.62	17.5	80	742	
1422 DW NE FENCE SP.txt	8/2/2017	9:03:29 AM	0115249980	8/2/2017	7:33:29 AM	6	-10.78	18.2	77	742	
1422 DW NE FENCE SP.txt	8/2/2017	9:18:29 AM	0115249980	8/2/2017	7:33:29 AM	7	-11.08	19.1	76	742	
1422 DW NE FENCE SP.txt	8/2/2017	9:33:29 AM	0115249980	8/2/2017	7:33:29 AM	8	-11.62	20	74	742	
1422 DW NE FENCE SP.txt	8/2/2017	9:48:29 AM	0115249980	8/2/2017	7:33:29 AM	9	-9.7	20.7	70	742	
1422 DW NE FENCE SP.txt	8/2/2017	10:03:29 AM	0115249980	8/2/2017	7:33:29 AM	10	-9.05	21.2	69	742	
1422 DW NE FENCE SP.txt	8/2/2017	10:18:29 AM	0115249980	8/2/2017	7:33:29 AM	11	-10.54	21.6	69	742	
1422 DW NE FENCE SP.txt	8/2/2017	10:33:29 AM	0115249980	8/2/2017	7:33:29 AM	12	-12.63	22.2	67	742	
1422 DW NE FENCE SP.txt	8/2/2017	10:48:29 AM	0115249980	8/2/2017	7:33:29 AM	13	-6.29	22.6	66	742	
1422 DW NE FENCE SP.txt	8/2/2017	11:03:29 AM	0115249980	8/2/2017	7:33:29 AM	14	-15.29	23.3	65	742	
1422 DW NE FENCE SP.txt	8/2/2017	11:18:29 AM	0115249980	8/2/2017	7:33:29 AM	15	-17.02	24.2	59	742	
1422 DW NE FENCE SP.txt	8/2/2017	11:33:29 AM	0115249980	8/2/2017	7:33:29 AM	16	-11.13	24.9	54	742	
1422 DW NE FENCE SP.txt	8/2/2017	11:48:29 AM	0115249980	8/2/2017	7:33:29 AM	17	-15.36	25.5	51	742	
1422 DW NE FENCE SP.txt	8/2/2017	12:03:29 PM	0115249980	8/2/2017	7:33:29 AM	18	-18.82	26.2	49	742	
1422 DW NE FENCE SP.txt	8/2/2017	12:18:29 PM	0115249980	8/2/2017	7:33:29 AM	19	-20.16	26.8	47	742	
1422 DW NE FENCE SP.txt	8/2/2017	12:33:29 PM	0115249980	8/2/2017	7:33:29 AM	20	-20.78	27.1	43	742	
1422 DW NE FENCE SP.txt	8/2/2017	12:48:29 PM	0115249980	8/2/2017	7:33:29 AM	21	-12.88	27.3	44	742	
1422 DW NE FENCE SP.txt	8/2/2017	1:03:29 PM	0115249980	8/2/2017	7:33:29 AM	22	-19.52	27.8	44	742	
1422 DW NE FENCE SP.txt	8/2/2017	1:18:29 PM	0115249980	8/2/2017	7:33:29 AM	23	-18.79	28.2	42	740	
1422 DW NE FENCE SP.txt	8/2/2017	1:33:29 PM	0115249980	8/2/2017	7:33:29 AM	24	-19.04	28.6	44	740	
1422 DW NE FENCE SP.txt	8/2/2017	1:48:29 PM	0115249980	8/2/2017	7:33:29 AM	25	-19.02	29.2	41	740	
1422 DW NE FENCE SP.txt	8/2/2017	2:03:29 PM	0115249980	8/2/2017	7:33:29 AM	26	-15.95	30.2	42	740	
1422 DW NE FENCE SP.txt	8/2/2017	2:18:29 PM	0115249980	8/2/2017	7:33:29 AM	27	-18.63	31.1	38	740	
1422 DW NE FENCE SP.txt	8/2/2017	2:33:29 PM	0115249980	8/2/2017	7:33:29 AM	28	1.57	31.5	37	740	
1422 DW NE FENCE SP.txt	8/2/2017	2:48:29 PM	0115249980	8/2/2017	7:33:29 AM	29	-11.22	31.8	36	740	
1422 DW NE FENCE SP.txt	8/2/2017	3:03:29 PM	0115249980	8/2/2017	7:33:29 AM	30	9.21	32.1	36	740	
1422 DW NE FENCE SP.txt	8/2/2017	3:18:29 PM	0115249980	8/2/2017	7:33:29 AM	31	-15.7	32.6	35	740	
1422 DW NE FENCE SP.txt	8/2/2017	3:33:29 PM	0115249980	8/2/2017	7:33:29 AM	32	-12.96	33.9	34	740	
1422 DW NE FENCE SP.txt	8/2/2017	3:48:29 PM	0115249980	8/2/2017	7:33:29 AM	33	4.85	34.8	34	740	
1422 DW NE FENCE SP.txt	8/2/2017	4:03:29 PM	0115249980	8/2/2017	7:33:29 AM	34	-2.55	36.8	28	740	
1422 DW NE FENCE SP.txt	8/2/2017	4:18:29 PM	0115249980	8/2/2017	7:33:29 AM	35	-11.08	37.9	26	740	
1428 DW NE CORNER SX.txt	8/2/2017	7:47:06 AM	0115250007	8/2/2017	7:32:06 AM	1	-2.81	18.3	76	742	
1428 DW NE CORNER SX.txt	8/2/2017	8:02:06 AM	0115250007	8/2/2017	7:32:06 AM	2	-0.04	18.1	79	742	
1428 DW NE CORNER SX.txt	8/2/2017	8:17:06 AM	0115250007	8/2/2017	7:32:06 AM	3	-1.44	18.1	80	742	
1428 DW NE CORNER SX.txt	8/2/2017	8:32:06 AM	0115250007	8/2/2017	7:32:06 AM	4	-2.52	18.4	81	742	
1428 DW NE CORNER SX.txt	8/2/2017	8:47:06 AM	0115250007	8/2/2017	7:32:06 AM	5	-2.54	19.1	79	742	
1428 DW NE CORNER SX.txt	8/2/2017	9:02:06 AM	0115250007	8/2/2017	7:32:06 AM	6	-3.28	20.3	76	742	
1428 DW NE CORNER SX.txt	8/2/2017	9:17:06 AM	0115250007	8/2/2017	7:32:06 AM	7	-4.09	21.7	71	742	
1428 DW NE CORNER SX.txt	8/2/2017	9:32:06 AM	0115250007	8/2/2017	7:32:06 AM	8	-4.57	22.5	68	742	
1428 DW NE CORNER SX.txt	8/2/2017	9:47:06 AM	0115250007	8/2/2017	7:32:06 AM	9	-4.6	23.1	66	742	
1428 DW NE CORNER SX.txt	8/2/2017	10:02:06 AM	0115250007	8/2/2017	7:32:06 AM	10	-4.26	23.8	65	744	
1428 DW NE CORNER SX.txt	8/2/2017	10:17:06 AM	0115250007	8/2/2017	7:32:06 AM	11	-5.31	24.5	63	742	
1428 DW NE CORNER SX.txt	8/2/2017	10:32:06 AM	0115250007	8/2/2017	7:32:06 AM	12	-5.75	25.1	61	744	
1428 DW NE CORNER SX.txt	8/2/2017	10:47:06 AM	0115250007	8/2/2017	7:32:06 AM	13	-5.31	25.9	59	744	
1428 DW NE CORNER SX.txt	8/2/2017	11:02:06 AM	0115250007	8/2/2017	7:32:06 AM	14	-5.42	27	57	744	
1428 DW NE CORNER SX.txt	8/2/2017	11:17:06 AM	0115250007	8/2/2017	7:32:06 AM	15	-6.31	27.9	52	744	
1428 DW NE CORNER SX.txt	8/2/2017	11:32:06 AM	0115250007	8/2/2017	7:32:06 AM	16	-5.57	28.5	48	744	
1428 DW NE CORNER SX.txt	8/2/2017	11:47:06 AM	0115250007	8/2/2017	7:32:06 AM	17	-7.3	29.3	47	744	
1428 DW NE CORNER SX.txt	8/2/2017	12:02:06 PM	0115250007	8/2/2017	7:32:06 AM	18	-6.9	31.8	41	744	
1428 DW NE CORNER SX.txt	8/2/2017	12:17:06 PM	0115250007	8/2/2017	7:32:06 AM	19	-7.69	36.3	34	744	
1428 DW NE CORNER SX.txt	8/2/2017	12:32:06 PM	0115250007	8/2/2017	7:32:06 AM	20	-8.66	40.1	28	744	
1428 DW NE CORNER SX.txt	8/2/2017	12:47:06 PM	0115250007	8/2/2017	7:32:06 AM	21	-10.09	40.9	26	744	
1428 DW NE CORNER SX.txt	8/2/2017	1:02:06 PM	0115250007	8/2/2017	7:32:06 AM	22	-9.75	41.6	25	744	
1428 DW NE CORNER SX.txt	8/2/2017	1:17:06 PM	0115250007	8/2/2017	7:32:06 AM	23	-5.46	43.6	24	744	
1428 DW NE CORNER SX.txt	8/2/2017	1:32:06 PM	0115250007	8/2/2017	7:32:06 AM	24	-5.64	44.9	22	744	
1428 DW NE CORNER SX.txt	8/2/2017	1:47:06 PM	0115250007	8/2/2017	7:32:06 AM	25	0.69	44.3	23	744	
1428 DW NE CORNER SX.txt	8/2/2017	2:02:06 PM	0115250007	8/2/2017	7:32:06 AM	26	-6.32	45.5	22	744	
1428 DW NE CORNER SX.txt	8/2/2017	2:17:06 PM	0115250007	8/2/2017	7:32:06 AM	27	-3.24	43.6	23	742	
1428 DW NE CORNER SX.txt	8/2/2017	2:32:06 PM	0115250007	8/2/2017	7:32:06 AM	28	-2.64	44.9	23	742	
1428 DW NE CORNER SX.txt	8/2/2017	2:47:06 PM	0115250007	8/2/2017	7:32:06 AM	29	-2.9	44.6	22	742	
1428 DW NE CORNER SX.txt	8/2/2017	3:02:06 PM	0115250007	8/2/2017	7:32:06 AM	30	-3.05	42.1	23	742	
1428 DW NE CORNER SX.txt	8/2/2017	3:17:06 PM	0115250007	8/2/2017	7:32:06 AM	31	-3.73	42.7	24	742	
1428 DW NE CORNER SX.txt	8/2/2017	3:32:06 PM	0115250007	8/2/2017	7:32:06 AM	32	-6.51	44.1	22	742	
1428 DW NE CORNER SX.txt	8/2/2017	3:47:06 PM	0115250007	8/2/2017	7:32:06 AM	33	-8.54	43.6	23	742	
1428 DW NE CORNER SX.txt	8/2/2017	4:02:06 PM	0115250007	8/2/2017	7:32:06 AM	34	-7.12	41.9	25	742	
1428 DW NE CORNER SX.txt	8/2/2017	4:17:06 PM	0115250007	8/2/2017	7:32:06 AM	35	-0.69	41.8	24	742	
1428 DW NE CORNER SX.txt	8/2/2017	4:32:06 PM	0115250007	8/2/2017	7:32:06 AM	36	1.21	41.5	25	742	
1429 DW CENTER SX.txt	8/2/2017	7:44:32 AM	0115250009	8/2/2017	7:29:32 AM	1	-6.8	18.5	74	742	
1429 DW CENTER SX.txt	8/2/2017	7:59:32 AM	0115250009	8/2/2017	7:29:32 AM	2	-3.6	18.3	77	742	
1429 DW CENTER SX.txt	8/2/2017	8:14:32 AM	0115250009	8/2/2017	7:29:32 AM	3	-2.89	18.3	78	742	
1429 DW CENTER SX.txt	8/2/2017	8:29:32 AM	0115250009	8/2/2017	7:29:32 AM	4	-5.89	18.9	77	742	
1429 DW CENTER SX.txt	8/2/2017	8:44:32 AM	0115250009	8/2/2017	7:29:32 AM	5	-7.77	20.3	70	742	
1429 DW CENTER SX.txt	8/2/2017	8:59:32 AM	0115250009	8/2/2017	7:29:32 AM	6	-9.14	21.8	66	742	
1429 DW CENTER SX.txt	8/2/2017	9:14:32 AM	0115250009	8/2/2017	7:29:32 AM	7	-9.74	23.2	62	742	
1429 DW CENTER SX.txt	8/2/2017	9:29:32 AM	0115250009	8/2/2017	7:29:32 AM	8	-10.39	24	61	742	
1429 DW CENTER SX.txt	8/2/2017	9:44:32 AM	0115250009	8/2/2017	7:29:32 AM	9	-10.35	24.6	59	742	
1429 DW CENTER SX.txt	8/2/2017	9:59:32 AM	0115250009	8/2/2017	7:29:32 AM	10	-9.94	25.2	57	742	
1429 DW CENTER SX.txt	8/2/2017	10:14:32 AM	0115250009	8/2/2017	7:29:32 AM	11	-8.84	25.9	56	742	
1429 DW CENTER SX.txt	8/2/2017	10:29:32 AM	0115250009	8/2/2017	7:29:32 AM	12	-11.77	26.8	54	742	
1429 DW CENTER SX.txt	8/2/2017	10:44:32 AM	0115250009	8/2/2017	7:29:32 AM	13	-11.63	27.9	51	744	
1429 DW CENTER SX.txt	8/2/2017	10:59:32 AM	0115250009	8/2/2017	7:29:32 AM	14	-11.02	28.8	49	742	
1429 DW CENTER SX.txt	8/2/2017	11:14:32 AM	0115250009	8/2/2017	7:29:32 AM	15	-10.57	29.8	45	742	
1429 DW CENTER SX.txt	8/2/2017	11:29:32 AM	0115250009	8/2/2017	7:29:32 AM	16	-7.64	30.8	41	742	
1429 DW CENTER SX.txt	8/2/2017	11:44:32 AM	0115250009	8/2/2017	7:29:32 AM	17	-11.84	31.8	38	742	
1429 DW CENTER SX.txt	8/2/2017	11:59:32 AM	0115250009	8/2/2017	7:29:32 AM	18	-11.72	32.7	35	742	
1429 DW CENTER SX.txt	8/2/2017	12:14:32 PM	0115250009	8/2/2017	7:29:32 AM	19	-10.95	33.5	33	742	
1429 DW CENTER SX.txt	8/2/2017	12:29:32 PM	0115250009	8/2/2017	7:29:32 AM	20	-12.36	33.6	33	742	
1429 DW CENTER SX.txt	8/2/2017	12:44:32 PM	0115250009	8/2/2017	7:29:32 AM	21	-12.31	34.2	32	742	
1429 DW CENTER SX.txt	8/2/2017	12:59:32 PM	0115250009	8/2/2017	7:29:32 AM	22	-12.33	34.8	30	742	
1429 DW CENTER SX.txt	8/2/2017	1:14:32 PM	0115250009	8/2/2017	7:29:32 AM	23	-8.09	35.7	29	742	
1429 DW CENTER SX.txt	8/2/2017	1:29:32 PM	0115250009	8/2/2017	7:29:32 AM	24	-10.2	35.8	28	742	
1429 DW CENTER SX.txt	8/2/2017	1:44:32 PM	0115250009	8/2/2017	7:29:32 AM	25	72.9	35.6	29	742	
1429 DW CENTER SX.txt	8/2/2017	1:59:32 PM	0115250009	8/2/2017	7:29:32 AM	26	-4.81	36.9	27	742	
1429 DW CENTER SX.txt	8/2/2017	2:14:32 PM	0115250009	8/2/2017	7:29:32 AM	27	4.09	37.1	27	742	
1429 DW CENTER SX.txt	8/2/2017	2:29:32 PM	0115250009	8/2/2017	7:29:32 AM	28	-14.43	38.9	25	742	
1429 DW CENTER SX.txt	8/2/2017	2:44:32 PM	0115250009	8/2/2017	7:29:32 AM	29	-17.65	39.2	23	742	
1429 DW CENTER SX.txt	8/2/2017	2:59:32 PM	0115250009	8/2/2017	7:29:32 AM	30	-17.6	38.2	24	742	
1429 DW CENTER SX.txt	8/2/2017	3:14:32 PM	0115250009	8/2/2017	7:29:32 AM	31	-11.79	38.4	24	742	
1429 DW CENTER SX.txt	8/2/2017	3:29:32 PM	0115250009	8/2/2017	7:29:32 AM	32	-16.45	38.8	23	742	
1429 DW CENTER SX.txt	8/2/2017	3:44:32 PM	0115250009	8/2/2017	7:29:32 AM	33	-23.54	38.9	24	740	
1429 DW CENTER SX.txt	8/2/2017	3:59:32 PM	0115250009	8/2/2017	7:29:32 AM	34	-21.65	39.4	24	740	

Former Sperry Remington Site - North Portion
Elmira, New York

Unit Location	Record Date	Record Time	Unit Serial Number	Start Date	Start Time	Record #	Dust Concentration in µg/m^3	Temp	RHumidity	AtmoPressure in mm/Hg	Notes
1429 DW CENTER SX.txt	8/2/2017	4:14:32 PM	0115250009	8/2/2017	7:29:32 AM	35	-19.44	39.7	23	740	
1429 DW CENTER SX.txt	8/2/2017	4:29:32 PM	0115250009	8/2/2017	7:29:32 AM	36	-18.38	39.6	23	740	
1860 DW NW FENCE SP.txt	8/2/2017	7:51:35 AM	0115250203	8/2/2017	7:36:35 AM	1	-16.52	18.7	74	742	
1860 DW NW FENCE SP.txt	8/2/2017	8:06:35 AM	0115250203	8/2/2017	7:36:35 AM	2	-16.26	19.3	75	742	
1860 DW NW FENCE SP.txt	8/2/2017	8:21:35 AM	0115250203	8/2/2017	7:36:35 AM	3	-17.88	20.3	71	742	
1860 DW NW FENCE SP.txt	8/2/2017	8:36:35 AM	0115250203	8/2/2017	7:36:35 AM	4	-20.16	22.3	66	742	
1860 DW NW FENCE SP.txt	8/2/2017	8:51:35 AM	0115250203	8/2/2017	7:36:35 AM	5	-21.72	24.2	59	742	
1860 DW NW FENCE SP.txt	8/2/2017	9:06:35 AM	0115250203	8/2/2017	7:36:35 AM	6	-23.36	26.3	54	742	
1860 DW NW FENCE SP.txt	8/2/2017	9:21:35 AM	0115250203	8/2/2017	7:36:35 AM	7	-23.9	28.4	49	742	
1860 DW NW FENCE SP.txt	8/2/2017	9:36:35 AM	0115250203	8/2/2017	7:36:35 AM	8	-22.75	28.9	47	742	
1860 DW NW FENCE SP.txt	8/2/2017	9:51:35 AM	0115250203	8/2/2017	7:36:35 AM	9	-22.66	28.3	49	742	
1860 DW NW FENCE SP.txt	8/2/2017	10:06:35 AM	0115250203	8/2/2017	7:36:35 AM	10	-22.75	28.7	49	742	
1860 DW NW FENCE SP.txt	8/2/2017	10:21:35 AM	0115250203	8/2/2017	7:36:35 AM	11	-20.97	29	48	742	
1860 DW NW FENCE SP.txt	8/2/2017	10:36:35 AM	0115250203	8/2/2017	7:36:35 AM	12	-22.79	29.5	47	742	
1860 DW NW FENCE SP.txt	8/2/2017	10:51:35 AM	0115250203	8/2/2017	7:36:35 AM	13	-23.01	31.2	45	742	
1860 DW NW FENCE SP.txt	8/2/2017	11:06:35 AM	0115250203	8/2/2017	7:36:35 AM	14	-23.1	33.3	40	742	
1860 DW NW FENCE SP.txt	8/2/2017	11:21:35 AM	0115250203	8/2/2017	7:36:35 AM	15	-23.23	33.8	37	742	
1860 DW NW FENCE SP.txt	8/2/2017	11:36:35 AM	0115250203	8/2/2017	7:36:35 AM	16	-24.42	35.2	34	742	
1860 DW NW FENCE SP.txt	8/2/2017	11:51:35 AM	0115250203	8/2/2017	7:36:35 AM	17	-25.11	38	29	742	
1860 DW NW FENCE SP.txt	8/2/2017	12:06:35 PM	0115250203	8/2/2017	7:36:35 AM	18	-29.16	39.2	27	742	
1860 DW NW FENCE SP.txt	8/2/2017	12:21:35 PM	0115250203	8/2/2017	7:36:35 AM	19	-30.54	39.1	27	742	
1860 DW NW FENCE SP.txt	8/2/2017	12:36:35 PM	0115250203	8/2/2017	7:36:35 AM	20	-32.16	39.3	25	742	
1860 DW NW FENCE SP.txt	8/2/2017	12:51:35 PM	0115250203	8/2/2017	7:36:35 AM	21	-31.8	39.3	26	742	
1860 DW NW FENCE SP.txt	8/2/2017	1:06:35 PM	0115250203	8/2/2017	7:36:35 AM	22	-31.5	38.1	26	742	
1860 DW NW FENCE SP.txt	8/2/2017	1:21:35 PM	0115250203	8/2/2017	7:36:35 AM	23	-30.03	37.6	28	742	
1860 DW NW FENCE SP.txt	8/2/2017	1:36:35 PM	0115250203	8/2/2017	7:36:35 AM	24	-30.78	37.6	28	742	
1860 DW NW FENCE SP.txt	8/2/2017	1:51:35 PM	0115250203	8/2/2017	7:36:35 AM	25	-30.66	37.8	28	740	
1860 DW NW FENCE SP.txt	8/2/2017	2:06:35 PM	0115250203	8/2/2017	7:36:35 AM	26	-30.93	37.2	28	740	
1860 DW NW FENCE SP.txt	8/2/2017	2:21:35 PM	0115250203	8/2/2017	7:36:35 AM	27	-31.66	38	27	740	
1860 DW NW FENCE SP.txt	8/2/2017	2:36:35 PM	0115250203	8/2/2017	7:36:35 AM	28	-30.87	37.8	28	740	
1860 DW NW FENCE SP.txt	8/2/2017	2:51:35 PM	0115250203	8/2/2017	7:36:35 AM	29	-31.04	37	27	740	
1860 DW NW FENCE SP.txt	8/2/2017	3:06:35 PM	0115250203	8/2/2017	7:36:35 AM	30	-30.9	36.7	29	740	
1860 DW NW FENCE SP.txt	8/2/2017	3:21:35 PM	0115250203	8/2/2017	7:36:35 AM	31	-31.03	38.2	27	740	
1860 DW NW FENCE SP.txt	8/2/2017	3:36:35 PM	0115250203	8/2/2017	7:36:35 AM	32	-31.38	38.8	26	740	
1936 DW NW CORNER SP.txt	8/2/2017	7:46:02 AM	0115250202	8/2/2017	7:31:02 AM	1	-20.02	18.6	75	742	
1936 DW NW CORNER SP.txt	8/2/2017	8:01:02 AM	0115250202	8/2/2017	7:31:02 AM	2	-20.81	18.6	77	742	
1936 DW NW CORNER SP.txt	8/2/2017	8:16:02 AM	0115250202	8/2/2017	7:31:02 AM	3	-20.4	18.9	77	742	
1936 DW NW CORNER SP.txt	8/2/2017	8:31:02 AM	0115250202	8/2/2017	7:31:02 AM	4	-20.36	19.6	75	742	
1936 DW NW CORNER SP.txt	8/2/2017	8:46:02 AM	0115250202	8/2/2017	7:31:02 AM	5	-20.37	21.2	71	742	
1936 DW NW CORNER SP.txt	8/2/2017	9:01:02 AM	0115250202	8/2/2017	7:31:02 AM	6	-19.32	23.3	64	742	
1936 DW NW CORNER SP.txt	8/2/2017	9:16:02 AM	0115250202	8/2/2017	7:31:02 AM	7	-19.13	25.5	58	742	
1936 DW NW CORNER SP.txt	8/2/2017	9:31:02 AM	0115250202	8/2/2017	7:31:02 AM	8	-17.34	27.1	55	744	
1936 DW NW CORNER SP.txt	8/2/2017	9:46:02 AM	0115250202	8/2/2017	7:31:02 AM	9	-16.78	27.9	52	744	
1936 DW NW CORNER SP.txt	8/2/2017	10:01:02 AM	0115250202	8/2/2017	7:31:02 AM	10	-16.69	28.6	51	744	
1936 DW NW CORNER SP.txt	8/2/2017	10:16:02 AM	0115250202	8/2/2017	7:31:02 AM	11	-15.92	29.4	50	744	
1936 DW NW CORNER SP.txt	8/2/2017	10:31:02 AM	0115250202	8/2/2017	7:31:02 AM	12	-16.59	30	48	744	
1936 DW NW CORNER SP.txt	8/2/2017	10:46:02 AM	0115250202	8/2/2017	7:31:02 AM	13	-16.87	30.4	46	744	
1936 DW NW CORNER SP.txt	8/2/2017	11:01:02 AM	0115250202	8/2/2017	7:31:02 AM	14	-17.36	31.7	46	744	
1936 DW NW CORNER SP.txt	8/2/2017	11:16:02 AM	0115250202	8/2/2017	7:31:02 AM	15	-16.98	33.2	42	744	
1936 DW NW CORNER SP.txt	8/2/2017	11:31:02 AM	0115250202	8/2/2017	7:31:02 AM	16	-17.83	33.8	38	744	
1936 DW NW CORNER SP.txt	8/2/2017	11:46:02 AM	0115250202	8/2/2017	7:31:02 AM	17	-18.51	35	35	744	
1936 DW NW CORNER SP.txt	8/2/2017	12:01:02 PM	0115250202	8/2/2017	7:31:02 AM	18	-16.09	36.5	33	744	
1936 DW NW CORNER SP.txt	8/2/2017	12:16:02 PM	0115250202	8/2/2017	7:31:02 AM	19	-7.03	37.7	32	744	
1936 DW NW CORNER SP.txt	8/2/2017	12:31:02 PM	0115250202	8/2/2017	7:31:02 AM	20	-19.14	38.6	29	744	
1936 DW NW CORNER SP.txt	8/2/2017	12:46:02 PM	0115250202	8/2/2017	7:31:02 AM	21	-18.9	39.2	28	742	
1936 DW NW CORNER SP.txt	8/2/2017	1:01:02 PM	0115250202	8/2/2017	7:31:02 AM	22	-18.28	39.1	28	742	
1936 DW NW CORNER SP.txt	8/2/2017	1:16:02 PM	0115250202	8/2/2017	7:31:02 AM	23	-17.97	39.4	28	742	
1936 DW NW CORNER SP.txt	8/2/2017	1:31:02 PM	0115250202	8/2/2017	7:31:02 AM	24	-18.27	40.2	27	742	
1936 DW NW CORNER SP.txt	8/2/2017	1:46:02 PM	0115250202	8/2/2017	7:31:02 AM	25	-18.43	40.8	27	742	
1936 DW NW CORNER SP.txt	8/2/2017	2:01:02 PM	0115250202	8/2/2017	7:31:02 AM	26	-17.98	41.1	26	742	
1936 DW NW CORNER SP.txt	8/2/2017	2:16:02 PM	0115250202	8/2/2017	7:31:02 AM	27	-19.04	40.6	26	742	
1936 DW NW CORNER SP.txt	8/2/2017	2:31:02 PM	0115250202	8/2/2017	7:31:02 AM	28	-18.67	40.4	26	742	
1936 DW NW CORNER SP.txt	8/2/2017	2:46:02 PM	0115250202	8/2/2017	7:31:02 AM	29	-18.01	39.9	27	742	
1936 DW NW CORNER SP.txt	8/2/2017	3:01:02 PM	0115250202	8/2/2017	7:31:02 AM	30	-16.41	39.9	27	742	
1936 DW NW CORNER SP.txt	8/2/2017	3:16:02 PM	0115250202	8/2/2017	7:31:02 AM	31	-18.8	41.5	25	742	
1936 DW NW CORNER SP.txt	8/2/2017	3:31:02 PM	0115250202	8/2/2017	7:31:02 AM	32	-18.78	42.6	23	742	
1936 DW NW CORNER SP.txt	8/2/2017	3:46:02 PM	0115250202	8/2/2017	7:31:02 AM	33	-15	41.6	24	742	
1936 DW NW CORNER SP.txt	8/2/2017	4:01:02 PM	0115250202	8/2/2017	7:31:02 AM	34	-18.86	40.5	25	742	
1936 DW NW CORNER SP.txt	8/2/2017	4:16:02 PM	0115250202	8/2/2017	7:31:02 AM	35	-18.47	39.3	27	742	
1954 UW T POST SP.txt	8/2/2017	7:54:00 AM	0115250211	8/2/2017	7:39:00 AM	1	-12.47	18.6	75	742	
1954 UW T POST SP.txt	8/2/2017	8:09:00 AM	0115250211	8/2/2017	7:39:00 AM	2	-12.58	18.4	76	742	
1954 UW T POST SP.txt	8/2/2017	8:24:00 AM	0115250211	8/2/2017	7:39:00 AM	3	-12.74	18.3	78	742	
1954 UW T POST SP.txt	8/2/2017	8:39:00 AM	0115250211	8/2/2017	7:39:00 AM	4	-13.17	18.6	78	742	
1954 UW T POST SP.txt	8/2/2017	8:54:00 AM	0115250211	8/2/2017	7:39:00 AM	5	-13.07	19.1	76	742	
1954 UW T POST SP.txt	8/2/2017	9:09:00 AM	0115250211	8/2/2017	7:39:00 AM	6	-13.68	19.8	74	742	
1954 UW T POST SP.txt	8/2/2017	9:24:00 AM	0115250211	8/2/2017	7:39:00 AM	7	-13.69	20.8	72	742	
1954 UW T POST SP.txt	8/2/2017	9:39:00 AM	0115250211	8/2/2017	7:39:00 AM	8	-11.36	21.6	69	742	
1954 UW T POST SP.txt	8/2/2017	9:54:00 AM	0115250211	8/2/2017	7:39:00 AM	9	-11.67	22.2	67	742	
1954 UW T POST SP.txt	8/2/2017	10:09:00 AM	0115250211	8/2/2017	7:39:00 AM	10	-13.3	22.9	65	742	
1954 UW T POST SP.txt	8/2/2017	10:24:00 AM	0115250211	8/2/2017	7:39:00 AM	11	-12.85	23.4	65	742	
1954 UW T POST SP.txt	8/2/2017	10:39:00 AM	0115250211	8/2/2017	7:39:00 AM	12	-12.09	23.8	63	742	
1954 UW T POST SP.txt	8/2/2017	10:54:00 AM	0115250211	8/2/2017	7:39:00 AM	13	-12.6	24.5	63	742	
1954 UW T POST SP.txt	8/2/2017	11:09:00 AM	0115250211	8/2/2017	7:39:00 AM	14	-11.96	25.5	60	742	
1954 UW T POST SP.txt	8/2/2017	11:24:00 AM	0115250211	8/2/2017	7:39:00 AM	15	-13.27	26.4	54	742	
1954 UW T POST SP.txt	8/2/2017	11:39:00 AM	0115250211	8/2/2017	7:39:00 AM	16	-12.88	27.3	49	742	
1954 UW T POST SP.txt	8/2/2017	11:54:00 AM	0115250211	8/2/2017	7:39:00 AM	17	-11.42	29	44	742	
1954 UW T POST SP.txt	8/2/2017	12:09:00 PM	0115250211	8/2/2017	7:39:00 AM	18	-8.21	30.8	40	742	
1954 UW T POST SP.txt	8/2/2017	12:24:00 PM	0115250211	8/2/2017	7:39:00 AM	19	-8.99	32.2	36	742	
1954 UW T POST SP.txt	8/2/2017	12:39:00 PM	0115250211	8/2/2017	7:39:00 AM	20	-9.5	32.8	34	742	
1954 UW T POST SP.txt	8/2/2017	12:54:00 PM	0115250211	8/2/2017	7:39:00 AM	21	-8.19	33.1	34	742	
1954 UW T POST SP.txt	8/2/2017	1:09:00 PM	0115250211	8/2/2017	7:39:00 AM	22	-7.57	33	33	742	
1954 UW T POST SP.txt	8/2/2017	1:24:00 PM	0115250211	8/2/2017	7:39:00 AM	23	-5.48	33.2	35	742	
1954 UW T POST SP.txt	8/2/2017	1:39:00 PM	0115250211	8/2/2017	7:39:00 AM	24	-6.93	33.1	34	742	
1954 UW T POST SP.txt	8/2/2017	1:54:00 PM	0115250211	8/2/2017	7:39:00 AM	25	-7.84	33	36	742	
1954 UW T POST SP.txt	8/2/2017	2:09:00 PM	0115250211	8/2/2017	7:39:00 AM	26	-8.07	33.1	35	740	
1954 UW T POST SP.txt	8/2/2017	2:24:00 PM	0115250211	8/2/2017	7:39:00 AM	27	-8.39	33.3	34	740	
1954 UW T POST SP.txt	8/2/2017	2:39:00 PM	0115250211	8/2/2017	7:39:00 AM	28	-7.91	33	36	740	
1954 UW T POST SP.txt	8/2/2017	2:54:00 PM	0115250211	8/2/2017	7:39:00 AM	29	-8.07	33	35	740	
1954 UW T POST SP.txt	8/2/2017	3:09:00 PM	0115250211	8/2/2017	7:39:00 AM	30	-7.98	32.7	34	740	
1954 UW T POST SP.txt	8/2/2017	3:24:00 PM	0115250211	8/2/2017	7:39:00 AM	31	-8.08	33.4	33	740	
1954 UW T POST SP.txt	8/2/2017	3:39:00 PM	0115250211	8/2/2017	7:39:00 AM	32	-7.96	34.3	32	740	
1954 UW T POST SP.txt	8/2/2017	3:54:00 PM	0115250211	8/2/2017	7:39:00 AM	33	-7.64	34.9	32	740	
1954 UW T POST SP.txt	8/2/2017	4:09:00 PM	0115250211	8/2/2017	7:39:00 AM	34	-7.32	36.1	29	740	
1954 UW T POST SP.txt	8/2/2017	4:24:00 PM	0115250211	8/2/2017	7:39:00 AM	35	-7.17	37.2	29	740	
2535 UW FENCE SX.txt	8/2/2017	7:49:10 AM	CM15111015	8/2/2017	7:34:10 AM	1	-11.85	18.7	70	742	
2535 UW FENCE SX.txt	8/2/2017	8:04:10 AM	CM15111015	8/2/2017	7:34:10 AM	2	-10.15	19.5	70	742	
2535 UW FENCE SX.txt	8/2/2017	8:19:10 AM	CM15111015	8/2/2017	7:34:10 AM	3	-8.71	20.4	67	742	
2535 UW FENCE SX.txt	8/2/2017	8:34:10 AM	CM15111015	8/2/2017	7:34:10 AM	4	-21.5	22.5	61	742	
2535 UW FENCE SX.txt	8/2/2017	8:49:10 AM	CM15111015	8/2/2017	7:34:10 AM	5	-14.56	24.6	55	744	
2535 UW FENCE SX.txt	8/2/2017	9:04:10 AM	CM15111015	8/2/2017	7:34:10 AM	6	-15.02	27.1	49	744	
2535 UW FENCE SX.txt	8/2/2017	9:19:10 AM	CM15111015	8/2/2017	7:34:10 AM	7	-21.35	28.5	45	744	
2535 UW FENCE SX.txt	8/2/2017	9:34:10 AM	CM15111015	8/2/2017	7:34:10 AM	8	-26.94	28.8	44	744	
2535 UW FENCE SX.txt	8/2/2017	9:49:10 AM	CM15111015	8/2/2017	7:34:10 AM	9	-26.36	29.1	44	744	
2535 UW FENCE SX.txt	8/2/2017	10:04:10 AM	CM15111015	8/2/2017	7:34:10 AM	10	-12.25	29.8	43	744	
2535 UW FENCE SX.txt	8/2/2017	10:19:10 AM	CM15111015	8/2/2017	7:34:10 AM	11	-13.46	30.1	43	744	
2535 UW FENCE SX.txt	8/2/2017	10:34:10 AM	CM15111015	8/2/2017	7:34:10 AM	12	-21.04	30.9	41	744	
2535 UW FENCE SX.txt	8/2/2017	10:49:10 AM	CM15111015	8/2/2017	7:34:10 AM	13	-19.5	31.9	39	744	
2535 UW FENCE SX.txt	8/2/2017	11:04:10 AM	CM15111015	8/2/2017	7:34:10 AM	14	-7.63	33.1	37	744	
2535 UW FENCE SX.txt	8/2/2017	11:19:10 AM	CM15111015	8/2/2017	7:34:10 AM	15	-10.06	33.6	34	744	
2535 UW FENCE SX.txt	8/2/2017	11:34:10 AM	CM15111015	8/2/2017	7:34:10 AM	16	-8.53	34.4	32	744	
2535 UW FENCE SX.txt	8/2/2017	11:49:10 AM	CM15111015	8/2/2017	7:34:10 AM	17	-26.22	35.9	29	744	
2535 UW FENCE SX.txt	8/2/2017	12:04:10 PM	CM15111015	8/2/2017	7:34:10 AM	18	3.74	36.7	27	744	
2535 UW FENCE SX.txt	8/2/2017	12:19:10 PM	CM15111015	8/2/2017	7:34:10 AM	19	-30.7	37	27	744	
2535 UW FENCE SX.txt	8/2/2017	12:34:10 PM	CM15111015	8/2/2017	7:34:10 AM	20	-30.76	37.2	26	744	
2535 UW FENCE SX.txt	8/2/2017	12:49:10 PM	CM15111015	8/2/2017	7:34:10 AM	21	3.18	36.3	27	744	
2535 UW FENCE SX.txt	8/2/2017	1:04:10 PM	CM15111015	8/2/2017	7:34:10 AM	22	-24.77	35.8	27	744	
2535 UW FENCE SX.txt	8/2/2017	1:19:10 PM	CM15111015	8/2/2017	7:34:10 AM	23	-18.85	36.2	27	744	
2535 UW FENCE SX.txt	8/2/2017	1:34:10 PM	CM15111015	8/2/2017	7:34:10 AM	24	-18.94	35.9	27	742	

Summary of CAMP Monitoring

Beech and Bonaparte

Former Sperry Remington Site - North Portion
Elmira, New York

Unit Location	Record Date	Record Time	Unit Serial Number	Start Date	Start Time	Record #	Dust Concentration in µg/m^3	Temp	RHumidity	AtmoPressure in mm/Hg	Notes
2535 UW FENCE SX.txt	8/2/2017	1:49:10 PM	CM15111015	8/2/2017	7:34:10 AM	25	-26.24	35.9	27	742	
2535 UW FENCE SX.txt	8/2/2017	2:04:10 PM	CM15111015	8/2/2017	7:34:10 AM	26	-26.4	36.4	27	742	
2535 UW FENCE SX.txt	8/2/2017	2:19:10 PM	CM15111015	8/2/2017	7:34:10 AM	27	-26.32	36.4	27	742	
2535 UW FENCE SX.txt	8/2/2017	2:34:10 PM	CM15111015	8/2/2017	7:34:10 AM	28	-30.59	37.3	25	742	
2535 UW FENCE SX.txt	8/2/2017	2:49:10 PM	CM15111015	8/2/2017	7:34:10 AM	29	-28.73	37.7	24	742	
2535 UW FENCE SX.txt	8/2/2017	3:04:10 PM	CM15111015	8/2/2017	7:34:10 AM	30	-22.47	37	26	742	
2535 UW FENCE SX.txt	8/2/2017	3:19:10 PM	CM15111015	8/2/2017	7:34:10 AM	31	-29.11	37.7	24	742	
2535 UW FENCE SX.txt	8/2/2017	3:34:10 PM	CM15111015	8/2/2017	7:34:10 AM	32	-31.16	38.5	23	742	
2535 UW FENCE SX.txt	8/2/2017	3:49:10 PM	CM15111015	8/2/2017	7:34:10 AM	33	-29.29	37.8	25	742	
2535 UW FENCE SX.txt	8/2/2017	4:04:10 PM	CM15111015	8/2/2017	7:34:10 AM	34	-29.73	37.2	26	742	
2535 UW FENCE SX.txt	8/2/2017	4:19:10 PM	CM15111015	8/2/2017	7:34:10 AM	35	-30.62	38	24	742	
2980 DW NE CORNER SP.txt	8/2/2017	7:47:08 AM	CM15111014	8/2/2017	7:32:08 AM	1	-16	20.1	72	742	
2980 DW NE CORNER SP.txt	8/2/2017	8:02:08 AM	CM15111014	8/2/2017	7:32:08 AM	2	-14.62	20	75	742	
2980 DW NE CORNER SP.txt	8/2/2017	8:17:08 AM	CM15111014	8/2/2017	7:32:08 AM	3	-15.12	20.3	74	742	
2980 DW NE CORNER SP.txt	8/2/2017	8:32:08 AM	CM15111014	8/2/2017	7:32:08 AM	4	-15.22	20.6	74	742	
2980 DW NE CORNER SP.txt	8/2/2017	8:47:08 AM	CM15111014	8/2/2017	7:32:08 AM	5	-14.2	21.4	72	744	
2980 DW NE CORNER SP.txt	8/2/2017	9:02:08 AM	CM15111014	8/2/2017	7:32:08 AM	6	-16.42	22.5	70	744	
2980 DW NE CORNER SP.txt	8/2/2017	9:17:08 AM	CM15111014	8/2/2017	7:32:08 AM	7	-14.1	24.2	65	744	
2980 DW NE CORNER SP.txt	8/2/2017	9:32:08 AM	CM15111014	8/2/2017	7:32:08 AM	8	-13.46	26.1	59	744	
2980 DW NE CORNER SP.txt	8/2/2017	9:47:08 AM	CM15111014	8/2/2017	7:32:08 AM	9	-17.05	27.3	56	744	
2980 DW NE CORNER SP.txt	8/2/2017	10:02:08 AM	CM15111014	8/2/2017	7:32:08 AM	10	-12.06	28.5	53	744	
2980 DW NE CORNER SP.txt	8/2/2017	10:17:08 AM	CM15111014	8/2/2017	7:32:08 AM	11	-9.73	29.6	50	744	
2980 DW NE CORNER SP.txt	8/2/2017	10:32:08 AM	CM15111014	8/2/2017	7:32:08 AM	12	-20.14	30.2	48	744	
2980 DW NE CORNER SP.txt	8/2/2017	10:47:08 AM	CM15111014	8/2/2017	7:32:08 AM	13	-19.24	30.7	47	744	
2980 DW NE CORNER SP.txt	8/2/2017	11:02:08 AM	CM15111014	8/2/2017	7:32:08 AM	14	-19.14	32.2	46	744	
2980 DW NE CORNER SP.txt	8/2/2017	11:17:08 AM	CM15111014	8/2/2017	7:32:08 AM	15	-20.83	33.6	41	744	
2980 DW NE CORNER SP.txt	8/2/2017	11:32:08 AM	CM15111014	8/2/2017	7:32:08 AM	16	-15.58	34.3	37	744	
2980 DW NE CORNER SP.txt	8/2/2017	11:47:08 AM	CM15111014	8/2/2017	7:32:08 AM	17	-20.5	36.3	33	744	
2980 DW NE CORNER SP.txt	8/2/2017	12:02:08 PM	CM15111014	8/2/2017	7:32:08 AM	18	-21.11	38.4	29	744	
2980 DW NE CORNER SP.txt	8/2/2017	12:17:08 PM	CM15111014	8/2/2017	7:32:08 AM	19	-19.08	39.9	27	744	
2980 DW NE CORNER SP.txt	8/2/2017	12:32:08 PM	CM15111014	8/2/2017	7:32:08 AM	20	-23.04	41	24	744	
2980 DW NE CORNER SP.txt	8/2/2017	12:47:08 PM	CM15111014	8/2/2017	7:32:08 AM	21	-22.27	41.7	23	744	
2980 DW NE CORNER SP.txt	8/2/2017	1:02:08 PM	CM15111014	8/2/2017	7:32:08 AM	22	-19.29	41.7	23	744	
2980 DW NE CORNER SP.txt	8/2/2017	1:17:08 PM	CM15111014	8/2/2017	7:32:08 AM	23	-22.12	41.8	23	744	
2980 DW NE CORNER SP.txt	8/2/2017	1:32:08 PM	CM15111014	8/2/2017	7:32:08 AM	24	-17.36	42.4	23	744	
2980 DW NE CORNER SP.txt	8/2/2017	1:47:08 PM	CM15111014	8/2/2017	7:32:08 AM	25	-22.53	42.9	23	744	
2980 DW NE CORNER SP.txt	8/2/2017	2:02:08 PM	CM15111014	8/2/2017	7:32:08 AM	26	-21.51	43	22	742	
2980 DW NE CORNER SP.txt	8/2/2017	2:17:08 PM	CM15111014	8/2/2017	7:32:08 AM	27	-23.65	42	22	742	
2980 DW NE CORNER SP.txt	8/2/2017	2:32:08 PM	CM15111014	8/2/2017	7:32:08 AM	28	-23.4	41.4	23	742	
2980 DW NE CORNER SP.txt	8/2/2017	2:47:08 PM	CM15111014	8/2/2017	7:32:08 AM	29	-20.31	40.4	24	742	
2980 DW NE CORNER SP.txt	8/2/2017	3:02:08 PM	CM15111014	8/2/2017	7:32:08 AM	30	-10.61	40.2	25	742	
2980 DW NE CORNER SP.txt	8/2/2017	3:17:08 PM	CM15111014	8/2/2017	7:32:08 AM	31	-22.82	41.1	24	742	
2980 DW NE CORNER SP.txt	8/2/2017	3:32:08 PM	CM15111014	8/2/2017	7:32:08 AM	32	-22.74	41.2	23	742	
2980 DW NE CORNER SP.txt	8/2/2017	3:47:08 PM	CM15111014	8/2/2017	7:32:08 AM	33	-21.13	39.7	25	742	
2980 DW NE CORNER SP.txt	8/2/2017	4:02:08 PM	CM15111014	8/2/2017	7:32:08 AM	34	-17.8	38.1	27	742	
2980 DW NE CORNER SP.txt	8/2/2017	4:17:08 PM	CM15111014	8/2/2017	7:32:08 AM	35	-22.25	37.2	28	742	
818 DW NW FENCE SX.txt	8/2/2017	7:46:51 AM	0115249311	8/2/2017	7:31:51 AM	1	-6.92	19.8	70	742	
818 DW NW FENCE SX.txt	8/2/2017	8:01:51 AM	0115249311	8/2/2017	7:31:51 AM	2	-7.82	20.5	70	742	
818 DW NW FENCE SX.txt	8/2/2017	8:16:51 AM	0115249311	8/2/2017	7:31:51 AM	3	-7.72	21.3	68	742	
818 DW NW FENCE SX.txt	8/2/2017	8:31:51 AM	0115249311	8/2/2017	7:31:51 AM	4	-7.64	22.9	64	742	
818 DW NW FENCE SX.txt	8/2/2017	8:46:51 AM	0115249311	8/2/2017	7:31:51 AM	5	-6.67	24.8	58	742	
818 DW NW FENCE SX.txt	8/2/2017	9:01:51 AM	0115249311	8/2/2017	7:31:51 AM	6	-6.59	26.8	53	742	
818 DW NW FENCE SX.txt	8/2/2017	9:16:51 AM	0115249311	8/2/2017	7:31:51 AM	7	-5.91	28	50	742	
818 DW NW FENCE SX.txt	8/2/2017	9:31:51 AM	0115249311	8/2/2017	7:31:51 AM	8	-5.63	28.5	47	742	
818 DW NW FENCE SX.txt	8/2/2017	9:46:51 AM	0115249311	8/2/2017	7:31:51 AM	9	-6.64	28.9	46	742	
818 DW NW FENCE SX.txt	8/2/2017	10:01:51 AM	0115249311	8/2/2017	7:31:51 AM	10	3.68	29.6	46	742	
818 DW NW FENCE SX.txt	8/2/2017	10:16:51 AM	0115249311	8/2/2017	7:31:51 AM	11	-5.83	30	45	742	
818 DW NW FENCE SX.txt	8/2/2017	10:31:51 AM	0115249311	8/2/2017	7:31:51 AM	12	-6.68	30.3	45	742	
818 DW NW FENCE SX.txt	8/2/2017	10:46:51 AM	0115249311	8/2/2017	7:31:51 AM	13	-5.96	30.5	45	742	
818 DW NW FENCE SX.txt	8/2/2017	11:01:51 AM	0115249311	8/2/2017	7:31:51 AM	14	-4.23	31	44	742	
818 DW NW FENCE SX.txt	8/2/2017	11:16:51 AM	0115249311	8/2/2017	7:31:51 AM	15	5.39	31.5	41	742	
818 DW NW FENCE SX.txt	8/2/2017	11:31:51 AM	0115249311	8/2/2017	7:31:51 AM	16	1.4	32.1	38	742	
818 DW NW FENCE SX.txt	8/2/2017	11:46:51 AM	0115249311	8/2/2017	7:31:51 AM	17	-4.07	33	35	742	
818 DW NW FENCE SX.txt	8/2/2017	12:01:51 PM	0115249311	8/2/2017	7:31:51 AM	18	-3.7	33.6	34	742	
818 DW NW FENCE SX.txt	8/2/2017	12:16:51 PM	0115249311	8/2/2017	7:31:51 AM	19	-3.9	34.2	33	742	
818 DW NW FENCE SX.txt	8/2/2017	12:31:51 PM	0115249311	8/2/2017	7:31:51 AM	20	-6.64	35.2	31	742	
818 DW NW FENCE SX.txt	8/2/2017	12:46:51 PM	0115249311	8/2/2017	7:31:51 AM	21	2.64	35.3	30	742	
818 DW NW FENCE SX.txt	8/2/2017	1:01:51 PM	0115249311	8/2/2017	7:31:51 AM	22	-6.6	35.1	30	742	
818 DW NW FENCE SX.txt	8/2/2017	1:16:51 PM	0115249311	8/2/2017	7:31:51 AM	23	1.88	35.9	30	742	
818 DW NW FENCE SX.txt	8/2/2017	1:31:51 PM	0115249311	8/2/2017	7:31:51 AM	24	1.74	36	30	742	
818 DW NW FENCE SX.txt	8/2/2017	1:46:51 PM	0115249311	8/2/2017	7:31:51 AM	25	49.06	36	30	742	
818 DW NW FENCE SX.txt	8/2/2017	2:01:51 PM	0115249311	8/2/2017	7:31:51 AM	26	10.2	36.6	30	742	
818 DW NW FENCE SX.txt	8/2/2017	2:16:51 PM	0115249311	8/2/2017	7:31:51 AM	27	1.56	36.2	30	742	
818 DW NW FENCE SX.txt	8/2/2017	2:31:51 PM	0115249311	8/2/2017	7:31:51 AM	28	1.31	36.8	29	742	
818 DW NW FENCE SX.txt	8/2/2017	2:46:51 PM	0115249311	8/2/2017	7:31:51 AM	29	-2.62	37.1	27	742	
818 DW NW FENCE SX.txt	8/2/2017	3:01:51 PM	0115249311	8/2/2017	7:31:51 AM	30	11.83	36.4	29	742	
818 DW NW FENCE SX.txt	8/2/2017	3:16:51 PM	0115249311	8/2/2017	7:31:51 AM	31	5.44	36.8	28	740	
818 DW NW FENCE SX.txt	8/2/2017	3:31:51 PM	0115249311	8/2/2017	7:31:51 AM	32	6.12	37.6	27	740	
818 DW NW FENCE SX.txt	8/2/2017	3:46:51 PM	0115249311	8/2/2017	7:31:51 AM	33	5.7	37.1	29	740	
818 DW NW FENCE SX.txt	8/2/2017	4:01:51 PM	0115249311	8/2/2017	7:31:51 AM	34	4.47	36.4	30	740	
818 DW NW FENCE SX.txt	8/2/2017	4:16:51 PM	0115249311	8/2/2017	7:31:51 AM	35	7.25	36.7	28	740	
0818 DW NW FENCE SX.txt	8/3/2017	11:05:19 AM	0115249311	8/3/2017	10:50:19 AM	1	-6.34	19.4	79	742	
0818 DW NW FENCE SX.txt	8/3/2017	11:20:19 AM	0115249311	8/3/2017	10:50:19 AM	2	-6.99	23.2	70	742	
0818 DW NW FENCE SX.txt	8/3/2017	11:35:19 AM	0115249311	8/3/2017	10:50:19 AM	3	-7.51	26	59	742	
0818 DW NW FENCE SX.txt	8/3/2017	11:50:19 AM	0115249311	8/3/2017	10:50:19 AM	4	-6.05	27.9	54	742	
0818 DW NW FENCE SX.txt	8/3/2017	12:05:19 PM	0115249311	8/3/2017	10:50:19 AM	5	-5.86	29	45	744	
0818 DW NW FENCE SX.txt	8/3/2017	12:20:19 PM	0115249311	8/3/2017	10:50:19 AM	6	-3.01	29.8	43	744	
0818 DW NW FENCE SX.txt	8/3/2017	12:35:19 PM	0115249311	8/3/2017	10:50:19 AM	7	-2.96	30.4	39	742	
0818 DW NW FENCE SX.txt	8/3/2017	12:50:19 PM	0115249311	8/3/2017	10:50:19 AM	8	-1.81	30.8	40	742	
0818 DW NW FENCE SX.txt	8/3/2017	1:05:19 PM	0115249311	8/3/2017	10:50:19 AM	9	-3.5	31.1	43	742	
0818 DW NW FENCE SX.txt	8/3/2017	1:20:19 PM	0115249311	8/3/2017	10:50:19 AM	10	-1.15	31.9	41	742	
0818 DW NW FENCE SX.txt	8/3/2017	1:35:19 PM	0115249311	8/3/2017	10:50:19 AM	11	-0.71	32	41	742	
0818 DW NW FENCE SX.txt	8/3/2017	1:50:19 PM	0115249311	8/3/2017	10:50:19 AM	12	1.58	32	42	742	
0818 DW NW FENCE SX.txt	8/3/2017	2:05:19 PM	0115249311	8/3/2017	10:50:19 AM	13	0.21	32.2	42	742	
0818 DW NW FENCE SX.txt	8/3/2017	2:20:19 PM	0115249311	8/3/2017	10:50:19 AM	14	-3.03	32.7	41	742	
0818 DW NW FENCE SX.txt	8/3/2017	2:35:19 PM	0115249311	8/3/2017	10:50:19 AM	15	4.61	33.3	37	742	
0818 DW NW FENCE SX.txt	8/3/2017	2:50:19 PM	0115249311	8/3/2017	10:50:19 AM	16	-0.43	33.4	36	742	
0818 DW NW FENCE SX.txt	8/3/2017	3:05:19 PM	0115249311	8/3/2017	10:50:19 AM	17	-3.1	33.3	34	742	
0818 DW NW FENCE SX.txt	8/3/2017	3:20:19 PM	0115249311	8/3/2017	10:50:19 AM	18	1.19	33.9	33	742	
0818 DW NW FENCE SX.txt	8/3/2017	3:35:19 PM	0115249311	8/3/2017	10:50:19 AM	19	-0.94	33.4	33	742	
0818 DW NW FENCE SX.txt	8/3/2017	3:50:19 PM	0115249311	8/3/2017	10:50:19 AM	20	1.5	33.4	34	742	
0818 DW NW FENCE SX.txt	8/3/2017	4:05:19 PM	0115249311	8/3/2017	10:50:19 AM	21	-2.92	34	33	742	
0818 DW NW FENCE SX.txt	8/3/2017	4:20:19 PM	0115249311	8/3/2017	10:50:19 AM	22	-2.16	33.8	33	740	
1421 DW NW CORN SX.txt	8/3/2017	11:01:59 AM	0115249975	8/3/2017	10:46:59 AM	1	2.76	18.9	79	740	
1421 DW NW CORN SX.txt	8/3/2017	11:16:59 AM	0115249975	8/3/2017	10:46:59 AM	2	-1.78	24	65	742	
1421 DW NW CORN SX.txt	8/3/2017	11:31:59 AM	0115249975	8/3/2017	10:46:59 AM	3	-4.64	28.1	51	742	
1421 DW NW CORN SX.txt	8/3/2017	11:46:59 AM	0115249975	8/3/2017	10:46:59 AM	4	-3.91	30.6	43	742	
1421 DW NW CORN SX.txt	8/3/2017	12:01:59 PM	0115249975	8/3/2017	10:46:59 AM	5	-1.96	31.9	38	742	
1421 DW NW CORN SX.txt	8/3/2017	12:16:59 PM	0115249975	8/3/2017	10:46:59 AM	6	-2.75	32.5	35	742	
1421 DW NW CORN SX.txt	8/3/2017	12:31:59 PM	0115249975	8/3/2017	10:46:59 AM	7	-0.83	32.7	32	742	
1421 DW NW CORN SX.txt	8/3/2017	12:46:59 PM	0115249975	8/3/2017	10:46:59 AM	8	0.45	32.4	33	742	
1421 DW NW CORN SX.txt	8/3/2017	1:01:59 PM	0115249975	8/3/2017	10:46:59 AM	9	3.29	32	36	742	
1421 DW NW CORN SX.txt	8/3/2017	1:16:59 PM	0115249975	8/3/2017	10:46:59 AM	10	0.32	31.7	39	742	
1421 DW NW CORN SX.txt	8/3/2017	1:31:59 PM	0115249975	8/3/2017	10:46:59 AM	11	3.09	31.4	39	742	
1421 DW NW CORN SX.txt	8/3/2017	1:46:59 PM	0115249975	8/3/2017	10:46:59 AM	12	2.13	31	41	742	
1421 DW NW CORN SX.txt	8/3/2017	2:01:59 PM	0115249975	8/3/2017	10:46:59 AM	13	0.41	31	42	742	
1421 DW NW CORN SX.txt	8/3/2017	2:16:59 PM	0115249975	8/3/2017	10:46:59 AM	14	5.39	31.1	42	742	
1421 DW NW CORN SX.txt	8/3/2017	2:31:59 PM	0115249975	8/3/2017	10:46:59 AM	15	15.03	31.2	40	742	
1421 DW NW CORN SX.txt	8/3/2017	2:46:59 PM	0115249975	8/3/2017	10:46:59 AM	16	4.5	31.3	38	742	
1421 DW NW CORN SX.txt	8/3/2017	3:01:59 PM	0115249975	8/3/2017	10:46:59 AM	17	9.06	31.3	36	742	
1421 DW NW CORN SX.txt	8/3/2017	3:16:59 PM	0115249975	8/3/2017	10:46:59 AM	18	5.46	31.7	34	740	
1421 DW NW CORN SX.txt	8/3/2017	3:31:59 PM	0115249975	8/3/2017	10:46:59 AM	19	10.28	31.5	34	740	
1421 DW NW CORN SX.txt	8/3/2017	3:46:59 PM	0115249975	8/3/2017	10:46:59 AM	20	3.16	31.3	35	740	
1421 DW NW CORN SX.txt	8/3/2017	4:01:59 PM	0115249975	8/3/2017	10:46:59 AM	21	10.81	32	34	740	
1421 DW NW CORN SX.txt	8/3/2017	4:16:59 PM	0115249975	8/3/2017	10:46:59 AM	22	4.36	32.2	34	740	

Former Sperry Remington Site - North Portion
Elmira, New York

Unit Location	Record Date	Record Time	Unit Serial Number	Start Date	Start Time	Record #	Dust Concentration in µg/m^3	Temp	RHumidity	AtmoPressure in mm/Hg	Notes
1421 DW NW CORN SX.txt	8/3/2017	4:31:59 PM	0115249975	8/3/2017	10:46:59 AM	23	5.23	31.5	35	740	
1422 DW NE FENCE SP.txt	8/3/2017	12:24:22 PM	0115249980	8/3/2017	12:09:22 PM	1	-6.45	31.5	39	742	
1422 DW NE FENCE SP.txt	8/3/2017	12:39:22 PM	0115249980	8/3/2017	12:09:22 PM	2	-6.38	30	41	742	
1422 DW NE FENCE SP.txt	8/3/2017	12:54:22 PM	0115249980	8/3/2017	12:09:22 PM	3	-6.28	29.1	43	742	
1422 DW NE FENCE SP.txt	8/3/2017	1:09:22 PM	0115249980	8/3/2017	12:09:22 PM	4	-5.07	28.8	48	742	
1422 DW NE FENCE SP.txt	8/3/2017	1:24:22 PM	0115249980	8/3/2017	12:09:22 PM	5	-3.06	29	48	742	
1422 DW NE FENCE SP.txt	8/3/2017	1:39:22 PM	0115249980	8/3/2017	12:09:22 PM	6	-3.56	29.5	48	742	
1422 DW NE FENCE SP.txt	8/3/2017	1:54:22 PM	0115249980	8/3/2017	12:09:22 PM	7	-3.95	30.2	48	742	
1422 DW NE FENCE SP.txt	8/3/2017	2:09:22 PM	0115249980	8/3/2017	12:09:22 PM	8	-4.39	31.4	46	742	
1422 DW NE FENCE SP.txt	8/3/2017	2:24:22 PM	0115249980	8/3/2017	12:09:22 PM	9	-1.77	33.1	41	742	
1422 DW NE FENCE SP.txt	8/3/2017	2:39:22 PM	0115249980	8/3/2017	12:09:22 PM	10	-5.04	34.4	37	742	
1422 DW NE FENCE SP.txt	8/3/2017	2:54:22 PM	0115249980	8/3/2017	12:09:22 PM	11	-5.74	35.8	33	742	
1422 DW NE FENCE SP.txt	8/3/2017	3:09:22 PM	0115249980	8/3/2017	12:09:22 PM	12	-5.83	37	30	742	
1422 DW NE FENCE SP.txt	8/3/2017	3:24:22 PM	0115249980	8/3/2017	12:09:22 PM	13	-6.65	37.2	30	740	
1422 DW NE FENCE SP.txt	8/3/2017	3:39:22 PM	0115249980	8/3/2017	12:09:22 PM	14	-6.63	36.1	30	740	
1422 DW NE FENCE SP.txt	8/3/2017	3:54:22 PM	0115249980	8/3/2017	12:09:22 PM	15	-6.82	36	32	740	
1428 DW NE CORN SX.txt	8/3/2017	11:05:40 AM	0115250007	8/3/2017	10:50:40 AM	1	0.1	18.7	82	744	
1428 DW NE CORN SX.txt	8/3/2017	11:20:40 AM	0115250007	8/3/2017	10:50:40 AM	2	-1.8	22.1	78	744	
1428 DW NE CORN SX.txt	8/3/2017	11:35:40 AM	0115250007	8/3/2017	10:50:40 AM	3	-4.19	25	66	744	
1428 DW NE CORN SX.txt	8/3/2017	11:50:40 AM	0115250007	8/3/2017	10:50:40 AM	4	-4.61	26.6	61	744	
1428 DW NE CORN SX.txt	8/3/2017	12:05:40 PM	0115250007	8/3/2017	10:50:40 AM	5	-5.9	28.5	54	744	
1428 DW NE CORN SX.txt	8/3/2017	12:20:40 PM	0115250007	8/3/2017	10:50:40 AM	6	-6.94	30.1	46	744	
1428 DW NE CORN SX.txt	8/3/2017	12:35:40 PM	0115250007	8/3/2017	10:50:40 AM	7	-7.28	31.7	41	744	
1428 DW NE CORN SX.txt	8/3/2017	12:50:40 PM	0115250007	8/3/2017	10:50:40 AM	8	-7.2	33	38	744	
1428 DW NE CORN SX.txt	8/3/2017	1:05:40 PM	0115250007	8/3/2017	10:50:40 AM	9	-6.14	34.1	40	744	
1428 DW NE CORN SX.txt	8/3/2017	1:20:40 PM	0115250007	8/3/2017	10:50:40 AM	10	-5.75	34.7	40	744	
1428 DW NE CORN SX.txt	8/3/2017	1:35:40 PM	0115250007	8/3/2017	10:50:40 AM	11	-5.72	35.4	38	744	
1428 DW NE CORN SX.txt	8/3/2017	1:50:40 PM	0115250007	8/3/2017	10:50:40 AM	12	-4.69	35.8	38	744	
1428 DW NE CORN SX.txt	8/3/2017	2:05:40 PM	0115250007	8/3/2017	10:50:40 AM	13	-4.94	36.5	37	744	
1428 DW NE CORN SX.txt	8/3/2017	2:20:40 PM	0115250007	8/3/2017	10:50:40 AM	14	-4.48	37.4	36	744	
1428 DW NE CORN SX.txt	8/3/2017	2:35:40 PM	0115250007	8/3/2017	10:50:40 AM	15	-4.79	38.2	33	744	
1428 DW NE CORN SX.txt	8/3/2017	2:50:40 PM	0115250007	8/3/2017	10:50:40 AM	16	-5.77	39	31	744	
1428 DW NE CORN SX.txt	8/3/2017	3:05:40 PM	0115250007	8/3/2017	10:50:40 AM	17	-5.48	39.3	29	742	
1428 DW NE CORN SX.txt	8/3/2017	3:20:40 PM	0115250007	8/3/2017	10:50:40 AM	18	-5.73	38.7	30	742	
1428 DW NE CORN SX.txt	8/3/2017	3:35:40 PM	0115250007	8/3/2017	10:50:40 AM	19	-5.79	37.6	31	742	
1428 DW NE CORN SX.txt	8/3/2017	3:50:40 PM	0115250007	8/3/2017	10:50:40 AM	20	-5.38	37.4	32	742	
1428 DW NE CORN SX.txt	8/3/2017	4:05:40 PM	0115250007	8/3/2017	10:50:40 AM	21	-6.77	38.8	29	742	
1428 DW NE CORN SX.txt	8/3/2017	4:20:40 PM	0115250007	8/3/2017	10:50:40 AM	22	-5.97	38.7	29	742	
1429 DW N CENTER SX.txt	8/3/2017	11:00:57 AM	0115250009	8/3/2017	10:45:57 AM	1	0.53	17.5	86	742	
1429 DW N CENTER SX.txt	8/3/2017	11:15:57 AM	0115250009	8/3/2017	10:45:57 AM	2	-1.04	20.8	76	744	
1429 DW N CENTER SX.txt	8/3/2017	11:30:57 AM	0115250009	8/3/2017	10:45:57 AM	3	-2.62	23.9	66	744	
1429 DW N CENTER SX.txt	8/3/2017	11:45:57 AM	0115250009	8/3/2017	10:45:57 AM	4	-2.31	25.8	58	744	
1429 DW N CENTER SX.txt	8/3/2017	12:00:57 PM	0115250009	8/3/2017	10:45:57 AM	5	-2.21	27.2	55	744	
1429 DW N CENTER SX.txt	8/3/2017	12:15:57 PM	0115250009	8/3/2017	10:45:57 AM	6	-4.59	28.5	47	744	
1429 DW N CENTER SX.txt	8/3/2017	12:30:57 PM	0115250009	8/3/2017	10:45:57 AM	7	-4.26	30.1	41	744	
1429 DW N CENTER SX.txt	8/3/2017	12:45:57 PM	0115250009	8/3/2017	10:45:57 AM	8	-3.6	31.4	39	744	
1429 DW N CENTER SX.txt	8/3/2017	1:00:57 PM	0115250009	8/3/2017	10:45:57 AM	9	-2.12	32.9	38	744	
1429 DW N CENTER SX.txt	8/3/2017	1:15:57 PM	0115250009	8/3/2017	10:45:57 AM	10	-2.79	33.9	37	744	
1429 DW N CENTER SX.txt	8/3/2017	1:30:57 PM	0115250009	8/3/2017	10:45:57 AM	11	-2.44	34.8	35	742	
1429 DW N CENTER SX.txt	8/3/2017	1:45:57 PM	0115250009	8/3/2017	10:45:57 AM	12	-1.61	35.2	35	742	
1429 DW N CENTER SX.txt	8/3/2017	2:00:57 PM	0115250009	8/3/2017	10:45:57 AM	13	-2.88	35.9	35	742	
1429 DW N CENTER SX.txt	8/3/2017	2:15:57 PM	0115250009	8/3/2017	10:45:57 AM	14	-0.92	36.3	33	742	
1429 DW N CENTER SX.txt	8/3/2017	2:30:57 PM	0115250009	8/3/2017	10:45:57 AM	15	1.57	36.8	32	742	
1429 DW N CENTER SX.txt	8/3/2017	2:45:57 PM	0115250009	8/3/2017	10:45:57 AM	16	-2.86	37.6	29	742	
1429 DW N CENTER SX.txt	8/3/2017	3:00:57 PM	0115250009	8/3/2017	10:45:57 AM	17	-1.19	37.9	28	742	
1429 DW N CENTER SX.txt	8/3/2017	3:15:57 PM	0115250009	8/3/2017	10:45:57 AM	18	-1.45	37.8	27	742	
1429 DW N CENTER SX.txt	8/3/2017	3:30:57 PM	0115250009	8/3/2017	10:45:57 AM	19	-4.05	36.8	27	742	
1429 DW N CENTER SX.txt	8/3/2017	3:45:57 PM	0115250009	8/3/2017	10:45:57 AM	20	-0.27	35.7	30	742	
1429 DW N CENTER SX.txt	8/3/2017	4:00:57 PM	0115250009	8/3/2017	10:45:57 AM	21	4.86	36.7	28	742	
1429 DW N CENTER SX.txt	8/3/2017	4:15:57 PM	0115250009	8/3/2017	10:45:57 AM	22	2.53	37.1	27	742	
1429 DW N CENTER SX.txt	8/3/2017	4:30:57 PM	0115250009	8/3/2017	10:45:57 AM	23	2.35	34.9	31	742	
1860 DW NW FENCE SP.txt	8/3/2017	12:21:15 PM	0115250203	8/3/2017	12:06:15 PM	1	-4.8	33.6	36	742	
1860 DW NW FENCE SP.txt	8/3/2017	12:36:15 PM	0115250203	8/3/2017	12:06:15 PM	2	-5.59	34.1	35	742	
1860 DW NW FENCE SP.txt	8/3/2017	12:51:15 PM	0115250203	8/3/2017	12:06:15 PM	3	-5.59	34.1	33	742	
1860 DW NW FENCE SP.txt	8/3/2017	1:06:15 PM	0115250203	8/3/2017	12:06:15 PM	4	-3.99	33.7	37	742	
1860 DW NW FENCE SP.txt	8/3/2017	1:21:15 PM	0115250203	8/3/2017	12:06:15 PM	5	-4.03	33.4	38	742	
1860 DW NW FENCE SP.txt	8/3/2017	1:36:15 PM	0115250203	8/3/2017	12:06:15 PM	6	-3.72	32.8	39	742	
1860 DW NW FENCE SP.txt	8/3/2017	1:51:15 PM	0115250203	8/3/2017	12:06:15 PM	7	-3.32	32.4	43	742	
1860 DW NW FENCE SP.txt	8/3/2017	2:06:15 PM	0115250203	8/3/2017	12:06:15 PM	8	-3.03	33.2	41	742	
1860 DW NW FENCE SP.txt	8/3/2017	2:21:15 PM	0115250203	8/3/2017	12:06:15 PM	9	-3.25	33.7	40	742	
1860 DW NW FENCE SP.txt	8/3/2017	2:36:15 PM	0115250203	8/3/2017	12:06:15 PM	10	-3.73	33.7	37	742	
1860 DW NW FENCE SP.txt	8/3/2017	2:51:15 PM	0115250203	8/3/2017	12:06:15 PM	11	-4.17	33.6	37	742	
1860 DW NW FENCE SP.txt	8/3/2017	3:06:15 PM	0115250203	8/3/2017	12:06:15 PM	12	-4.73	34.1	34	740	
1860 DW NW FENCE SP.txt	8/3/2017	3:21:15 PM	0115250203	8/3/2017	12:06:15 PM	13	-4.9	33.9	34	740	
1860 DW NW FENCE SP.txt	8/3/2017	3:36:15 PM	0115250203	8/3/2017	12:06:15 PM	14	-5.04	33.1	35	740	
1860 DW NW FENCE SP.txt	8/3/2017	3:51:15 PM	0115250203	8/3/2017	12:06:15 PM	15	-4.96	32.8	36	740	
1936 DW NW CORN SP.txt	8/3/2017	12:20:44 PM	0115250202	8/3/2017	12:05:44 PM	1	-4.8	33.7	37	744	
1936 DW NW CORN SP.txt	8/3/2017	12:35:44 PM	0115250202	8/3/2017	12:05:44 PM	2	-4.94	34.5	35	744	
1936 DW NW CORN SP.txt	8/3/2017	12:50:44 PM	0115250202	8/3/2017	12:05:44 PM	3	-3.26	35.3	34	744	
1936 DW NW CORN SP.txt	8/3/2017	1:05:44 PM	0115250202	8/3/2017	12:05:44 PM	4	-1.72	36.3	36	744	
1936 DW NW CORN SP.txt	8/3/2017	1:20:44 PM	0115250202	8/3/2017	12:05:44 PM	5	-1.86	37.4	34	744	
1936 DW NW CORN SP.txt	8/3/2017	1:35:44 PM	0115250202	8/3/2017	12:05:44 PM	6	-2.13	37.5	34	744	
1936 DW NW CORN SP.txt	8/3/2017	1:50:44 PM	0115250202	8/3/2017	12:05:44 PM	7	-2.48	37.2	35	744	
1936 DW NW CORN SP.txt	8/3/2017	2:05:44 PM	0115250202	8/3/2017	12:05:44 PM	8	-2.11	37.4	34	744	
1936 DW NW CORN SP.txt	8/3/2017	2:20:44 PM	0115250202	8/3/2017	12:05:44 PM	9	-2.34	37.5	34	742	
1936 DW NW CORN SP.txt	8/3/2017	2:35:44 PM	0115250202	8/3/2017	12:05:44 PM	10	-2.33	37.2	33	742	
1936 DW NW CORN SP.txt	8/3/2017	2:50:44 PM	0115250202	8/3/2017	12:05:44 PM	11	-2.43	37.5	33	742	
1936 DW NW CORN SP.txt	8/3/2017	3:05:44 PM	0115250202	8/3/2017	12:05:44 PM	12	-3.49	37.8	30	742	
1936 DW NW CORN SP.txt	8/3/2017	3:20:44 PM	0115250202	8/3/2017	12:05:44 PM	13	-4.32	37.3	30	742	
1936 DW NW CORN SP.txt	8/3/2017	3:35:44 PM	0115250202	8/3/2017	12:05:44 PM	14	-4.44	35.3	31	742	
1936 DW NW CORN SP.txt	8/3/2017	3:50:44 PM	0115250202	8/3/2017	12:05:44 PM	15	-4.34	34	34	742	
1954 UPWIND SP.txt	8/3/2017	12:26:22 PM	0115250211	8/3/2017	12:11:22 PM	1	4.68	33.4	36	742	
1954 UPWIND SP.txt	8/3/2017	12:41:22 PM	0115250211	8/3/2017	12:11:22 PM	2	4.8	33	36	742	
1954 UPWIND SP.txt	8/3/2017	12:56:22 PM	0115250211	8/3/2017	12:11:22 PM	3	5.03	32.7	36	742	
1954 UPWIND SP.txt	8/3/2017	1:11:22 PM	0115250211	8/3/2017	12:11:22 PM	4	6.37	32.7	40	742	
1954 UPWIND SP.txt	8/3/2017	1:26:22 PM	0115250211	8/3/2017	12:11:22 PM	5	5.98	32.5	40	742	
1954 UPWIND SP.txt	8/3/2017	1:41:22 PM	0115250211	8/3/2017	12:11:22 PM	6	6.32	31.7	43	742	
1954 UPWIND SP.txt	8/3/2017	1:56:22 PM	0115250211	8/3/2017	12:11:22 PM	7	7.13	31.2	45	742	
1954 UPWIND SP.txt	8/3/2017	2:11:22 PM	0115250211	8/3/2017	12:11:22 PM	8	6.96	31	45	742	
1954 UPWIND SP.txt	8/3/2017	2:26:22 PM	0115250211	8/3/2017	12:11:22 PM	9	6.64	30.7	45	742	
1954 UPWIND SP.txt	8/3/2017	2:41:22 PM	0115250211	8/3/2017	12:11:22 PM	10	6.48	30.6	44	742	
1954 UPWIND SP.txt	8/3/2017	2:56:22 PM	0115250211	8/3/2017	12:11:22 PM	11	5.66	30.8	42	742	
1954 UPWIND SP.txt	8/3/2017	3:11:22 PM	0115250211	8/3/2017	12:11:22 PM	12	5.56	31.4	39	742	
1954 UPWIND SP.txt	8/3/2017	3:26:22 PM	0115250211	8/3/2017	12:11:22 PM	13	5.78	31.8	37	740	
1954 UPWIND SP.txt	8/3/2017	3:41:22 PM	0115250211	8/3/2017	12:11:22 PM	14	5.31	31.5	37	740	
1954 UPWIND SP.txt	8/3/2017	3:56:22 PM	0115250211	8/3/2017	12:11:22 PM	15	5.37	32.1	38	740	
2535 UPWIND SX.txt	8/3/2017	11:07:58 AM	CM15111015	8/3/2017	10:52:58 AM	1	0.13	18.9	75	742	
2535 UPWIND SX.txt	8/3/2017	11:22:58 AM	CM15111015	8/3/2017	10:52:58 AM	2	-3.9	24	63	744	
2535 UPWIND SX.txt	8/3/2017	11:37:58 AM	CM15111015	8/3/2017	10:52:58 AM	3	-7.11	26.9	51	744	
2535 UPWIND SX.txt	8/3/2017	11:52:58 AM	CM15111015	8/3/2017	10:52:58 AM	4	-6.28	28.6	48	744	
2535 UPWIND SX.txt	8/3/2017	12:07:58 PM	CM15111015	8/3/2017	10:52:58 AM	5	-8.18	29.5	42	744	
2535 UPWIND SX.txt	8/3/2017	12:22:58 PM	CM15111015	8/3/2017	10:52:58 AM	6	-9.06	30.2	39	744	
2535 UPWIND SX.txt	8/3/2017	12:37:58 PM	CM15111015	8/3/2017	10:52:58 AM	7	-9.58	30.7	36	744	
2535 UPWIND SX.txt	8/3/2017	12:52:58 PM	CM15111015	8/3/2017	10:52:58 AM	8	-8.96	31	36	744	
2535 UPWIND SX.txt	8/3/2017	1:07:58 PM	CM15111015	8/3/2017	10:52:58 AM	9	-7.55	30.9	39	744	
2535 UPWIND SX.txt	8/3/2017	1:22:58 PM	CM15111015	8/3/2017	10:52:58 AM	10	-6.09	30.9	40	744	
2535 UPWIND SX.txt	8/3/2017	1:37:58 PM	CM15111015	8/3/2017	10:52:58 AM	11	-4.45	31	40	744	
2535 UPWIND SX.txt	8/3/2017	1:52:58 PM	CM15111015	8/3/2017	10:52:58 AM	12	0.88	31.6	40	744	
2535 UPWIND SX.txt	8/3/2017	2:07:58 PM	CM15111015	8/3/2017	10:52:58 AM	13	-3.8	32.4	39	744	
2535 UPWIND SX.txt	8/3/2017	2:22:58 PM	CM15111015	8/3/2017	10:52:58 AM	14	-6.29	33.2	37	744	
2535 UPWIND SX.txt	8/3/2017	2:37:58 PM	CM15111015	8/3/2017	10:52:58 AM	15	-1.41	33.7	34	742	
2535 UPWIND SX.txt	8/3/2017	2:52:58 PM	CM15111015	8/3/2017	10:52:58 AM	16	-5.96	34	33	742	
2535 UPWIND SX.txt	8/3/2017	3:07:58 PM	CM15111015	8/3/2017	10:52:58 AM	17	0.78	34.4	30	742	
2535 UPWIND SX.txt	8/3/2017	3:22:58 PM	CM15111015	8/3/2017	10:52:58 AM	18	-5.58	34.4	29	742	
2535 UPWIND SX.txt	8/3/2017	3:37:58 PM	CM15111015	8/3/2017	10:52:58 AM	19	-2.29	33.5	31	742	
2535 UPWIND SX.txt	8/3/2017	3:52:58 PM	CM15111015	8/3/2017	10:52:58 AM	20	10.21	33.5	31	742	
2535 UPWIND SX.txt	8/3/2017	4:07:58 PM	CM15111015	8/3/2017	10:52:58 AM	21	-0.3	34.4	30	742	
2535 UPWIND SX.txt	8/3/2017	4:22:58 PM	CM15111015	8/3/2017	10:52:58 AM	22	-7.64	34	30	742	

Summary of CAMP Monitoring

Beech and Bonaparte

Former Sperry Remington Site - North Portion
Elmira, New York

Unit Location	Record Date	Record Time	Unit Serial Number	Start Date	Start Time	Record #	Dust Concentration in µg/m^3	Temp	RHumidity	AtmoPressure in mm/Hg	Notes
2980 DW NE CORN SP.txt	8/3/2017	12:23:22 PM	CM15111014	8/3/2017	12:08:22 PM	1	-5.62	35.4	36	744	
2980 DW NE CORN SP.txt	8/3/2017	12:38:22 PM	CM15111014	8/3/2017	12:08:22 PM	2	-5.52	36.1	32	744	
2980 DW NE CORN SP.txt	8/3/2017	12:53:22 PM	CM15111014	8/3/2017	12:08:22 PM	3	-0.15	37	31	744	
2980 DW NE CORN SP.txt	8/3/2017	1:08:22 PM	CM15111014	8/3/2017	12:08:22 PM	4	-2.64	37.9	32	744	
2980 DW NE CORN SP.txt	8/3/2017	1:23:22 PM	CM15111014	8/3/2017	12:08:22 PM	5	-0.27	38.8	31	744	
2980 DW NE CORN SP.txt	8/3/2017	1:38:22 PM	CM15111014	8/3/2017	12:08:22 PM	6	-0.77	38.7	31	744	
2980 DW NE CORN SP.txt	8/3/2017	1:53:22 PM	CM15111014	8/3/2017	12:08:22 PM	7	-2.77	38.6	32	744	
2980 DW NE CORN SP.txt	8/3/2017	2:08:22 PM	CM15111014	8/3/2017	12:08:22 PM	8	-3.35	38.7	31	744	
0818 DW NW FENCE SX.txt	8/4/2017	7:42:56 AM	0115249311	8/4/2017	7:27:56 AM	1	-23.97	21.3	71	740	
0818 DW NW FENCE SX.txt	8/4/2017	7:57:56 AM	0115249311	8/4/2017	7:27:56 AM	2	-28.85	24.9	61	740	
0818 DW NW FENCE SX.txt	8/4/2017	8:12:56 AM	0115249311	8/4/2017	7:27:56 AM	3	-27.09	28	53	740	
0818 DW NW FENCE SX.txt	8/4/2017	8:27:56 AM	0115249311	8/4/2017	7:27:56 AM	4	-29.4	29.9	49	740	
0818 DW NW FENCE SX.txt	8/4/2017	8:42:56 AM	0115249311	8/4/2017	7:27:56 AM	5	-29.71	30.9	47	740	
0818 DW NW FENCE SX.txt	8/4/2017	8:57:56 AM	0115249311	8/4/2017	7:27:56 AM	6	-32.12	31.8	46	740	
0818 DW NW FENCE SX.txt	8/4/2017	9:12:56 AM	0115249311	8/4/2017	7:27:56 AM	7	-26.79	32.3	45	740	
0818 DW NW FENCE SX.txt	8/4/2017	9:27:56 AM	0115249311	8/4/2017	7:27:56 AM	8	-32.58	32.6	45	740	
0818 DW NW FENCE SX.txt	8/4/2017	9:42:56 AM	0115249311	8/4/2017	7:27:56 AM	9	-32.49	33.4	43	740	
0818 DW NW FENCE SX.txt	8/4/2017	9:57:56 AM	0115249311	8/4/2017	7:27:56 AM	10	-27.19	34.3	40	740	
0818 DW NW FENCE SX.txt	8/4/2017	10:12:56 AM	0115249311	8/4/2017	7:27:56 AM	11	-25.59	34.1	41	740	
1421 DW NW CORN SX.txt	8/4/2017	7:43:54 AM	0115249975	8/4/2017	7:28:54 AM	1	-28.47	21.1	71	740	
1421 DW NW CORN SX.txt	8/4/2017	7:58:54 AM	0115249975	8/4/2017	7:28:54 AM	2	-39.39	25.2	58	740	
1421 DW NW CORN SX.txt	8/4/2017	8:13:54 AM	0115249975	8/4/2017	7:28:54 AM	3	-41.99	28.1	50	740	
1421 DW NW CORN SX.txt	8/4/2017	8:28:54 AM	0115249975	8/4/2017	7:28:54 AM	4	-44.91	30	46	740	
1421 DW NW CORN SX.txt	8/4/2017	8:43:54 AM	0115249975	8/4/2017	7:28:54 AM	5	-45.54	30.7	45	740	
1421 DW NW CORN SX.txt	8/4/2017	8:58:54 AM	0115249975	8/4/2017	7:28:54 AM	6	-46.3	31.4	44	740	
1421 DW NW CORN SX.txt	8/4/2017	9:13:54 AM	0115249975	8/4/2017	7:28:54 AM	7	-36.76	31.9	43	740	
1421 DW NW CORN SX.txt	8/4/2017	9:28:54 AM	0115249975	8/4/2017	7:28:54 AM	8	-42.86	32.3	42	740	
1421 DW NW CORN SX.txt	8/4/2017	9:43:54 AM	0115249975	8/4/2017	7:28:54 AM	9	-46.03	33.3	43	740	
1421 DW NW CORN SX.txt	8/4/2017	9:58:54 AM	0115249975	8/4/2017	7:28:54 AM	10	-23.72	34.4	39	740	
1421 DW NW CORN SX.txt	8/4/2017	10:13:54 AM	0115249975	8/4/2017	7:28:54 AM	11	-32.34	34.7	39	740	
1421 DW NW CORN SX.txt	8/4/2017	10:28:54 AM	0115249975	8/4/2017	7:28:54 AM	12	-43.73	34	40	740	
1421 DW NW CORN SX.txt	8/4/2017	10:43:54 AM	0115249975	8/4/2017	7:28:54 AM	13	-48.87	34.2	41	740	
1421 DW NW CORN SX.txt	8/4/2017	10:58:54 AM	0115249975	8/4/2017	7:28:54 AM	14	-11.75	35.1	36	740	
1421 DW NW CORN SX.txt	8/4/2017	11:13:54 AM	0115249975	8/4/2017	7:28:54 AM	15	-44.1	33.1	41	740	
1421 DW NW CORN SX.txt	8/4/2017	11:28:54 AM	0115249975	8/4/2017	7:28:54 AM	16	-47.21	31.7	43	740	
1421 DW NW CORN SX.txt	8/4/2017	11:43:54 AM	0115249975	8/4/2017	7:28:54 AM	17	-44.18	32.3	42	738	
1421 DW NW CORN SX.txt	8/4/2017	11:58:54 AM	0115249975	8/4/2017	7:28:54 AM	18	-6.58	32.8	42	738	
1421 DW NW CORN SX.txt	8/4/2017	12:13:54 PM	0115249975	8/4/2017	7:28:54 AM	19	-48.15	32.7	41	738	
1421 DW NW CORN SX.txt	8/4/2017	12:28:54 PM	0115249975	8/4/2017	7:28:54 AM	20	-50.22	33	40	738	
1421 DW NW CORN SX.txt	8/4/2017	12:43:54 PM	0115249975	8/4/2017	7:28:54 AM	21	-31.68	33.3	40	738	
1421 DW NW CORN SX.txt	8/4/2017	12:58:54 PM	0115249975	8/4/2017	7:28:54 AM	22	-40.97	32.8	39	738	
1421 DW NW CORN SX.txt	8/4/2017	1:13:54 PM	0115249975	8/4/2017	7:28:54 AM	23	-34.46	32.5	39	738	
1421 DW NW CORN SX.txt	8/4/2017	1:28:54 PM	0115249975	8/4/2017	7:28:54 AM	24	-34.51	32.3	40	738	
1421 DW NW CORN SX.txt	8/4/2017	1:43:54 PM	0115249975	8/4/2017	7:28:54 AM	25	-3.79	32.7	39	738	
1421 DW NW CORN SX.txt	8/4/2017	1:58:54 PM	0115249975	8/4/2017	7:28:54 AM	26	-38.27	32.9	37	736	
1421 DW NW CORN SX.txt	8/4/2017	2:13:54 PM	0115249975	8/4/2017	7:28:54 AM	27	-35.13	32.9	37	736	
1421 DW NW CORN SX.txt	8/4/2017	2:28:54 PM	0115249975	8/4/2017	7:28:54 AM	28	-13.85	32.9	37	736	
1421 DW NW CORN SX.txt	8/4/2017	2:43:54 PM	0115249975	8/4/2017	7:28:54 AM	29	-8.47	32.5	37	736	
1421 DW NW CORN SX.txt	8/4/2017	2:58:54 PM	0115249975	8/4/2017	7:28:54 AM	30	-36.87	31.7	38	736	
1421 DW NW CORN SX.txt	8/4/2017	3:13:54 PM	0115249975	8/4/2017	7:28:54 AM	31	-46.91	31	40	736	
1421 DW NW CORN SX.txt	8/4/2017	3:28:54 PM	0115249975	8/4/2017	7:28:54 AM	32	-44.01	31.1	41	736	
1421 DW NW CORN SX.txt	8/4/2017	3:43:54 PM	0115249975	8/4/2017	7:28:54 AM	33	-44.96	32.7	39	736	
1421 DW NW CORN SX.txt	8/4/2017	3:58:54 PM	0115249975	8/4/2017	7:28:54 AM	34	-28.49	33	37	736	
1421 DW NW CORN SX.txt	8/4/2017	4:13:54 PM	0115249975	8/4/2017	7:28:54 AM	35	-32.46	32.3	37	736	
1421 DW NW CORN SX.txt	8/4/2017	4:28:54 PM	0115249975	8/4/2017	7:28:54 AM	36	-14.99	31.5	39	736	
1421 DW NW CORN SX.txt	8/4/2017	4:43:54 PM	0115249975	8/4/2017	7:28:54 AM	37	-33.27	31	40	736	
1422 DW NE FENCE SP.txt	8/4/2017	8:29:39 AM	0115249980	8/4/2017	8:14:39 AM	1	-1.34	18.9	80	740	
1422 DW NE FENCE SP.txt	8/4/2017	8:44:39 AM	0115249980	8/4/2017	8:14:39 AM	2	-2.48	19.9	81	740	
1422 DW NE FENCE SP.txt	8/4/2017	8:59:39 AM	0115249980	8/4/2017	8:14:39 AM	3	-3.84	20.7	79	740	
1422 DW NE FENCE SP.txt	8/4/2017	9:14:39 AM	0115249980	8/4/2017	8:14:39 AM	4	-4.88	21.3	77	740	
1422 DW NE FENCE SP.txt	8/4/2017	9:29:39 AM	0115249980	8/4/2017	8:14:39 AM	5	-5.87	21.8	77	740	
1422 DW NE FENCE SP.txt	8/4/2017	9:44:39 AM	0115249980	8/4/2017	8:14:39 AM	6	4.38	22.4	74	740	
1422 DW NE FENCE SP.txt	8/4/2017	9:59:39 AM	0115249980	8/4/2017	8:14:39 AM	7	-7.73	22.9	72	740	
1422 DW NE FENCE SP.txt	8/4/2017	10:14:39 AM	0115249980	8/4/2017	8:14:39 AM	8	-9.84	23.6	70	740	
1422 DW NE FENCE SP.txt	8/4/2017	10:29:39 AM	0115249980	8/4/2017	8:14:39 AM	9	-11.15	24.2	68	740	
1422 DW NE FENCE SP.txt	8/4/2017	10:44:39 AM	0115249980	8/4/2017	8:14:39 AM	10	8.31	24.6	65	740	
1422 DW NE FENCE SP.txt	8/4/2017	10:59:39 AM	0115249980	8/4/2017	8:14:39 AM	11	-12.57	25	63	740	
1422 DW NE FENCE SP.txt	8/4/2017	11:14:39 AM	0115249980	8/4/2017	8:14:39 AM	12	-12.1	25.2	65	740	
1422 DW NE FENCE SP.txt	8/4/2017	11:29:39 AM	0115249980	8/4/2017	8:14:39 AM	13	-11.8	25.4	66	740	
1422 DW NE FENCE SP.txt	8/4/2017	11:44:39 AM	0115249980	8/4/2017	8:14:39 AM	14	-13.09	26.1	63	738	
1422 DW NE FENCE SP.txt	8/4/2017	11:59:39 AM	0115249980	8/4/2017	8:14:39 AM	15	-12.9	27	61	738	
1422 DW NE FENCE SP.txt	8/4/2017	12:14:39 PM	0115249980	8/4/2017	8:14:39 AM	16	-12.68	27.8	57	738	
1422 DW NE FENCE SP.txt	8/4/2017	12:29:39 PM	0115249980	8/4/2017	8:14:39 AM	17	-15.39	28.4	53	738	
1422 DW NE FENCE SP.txt	8/4/2017	12:44:39 PM	0115249980	8/4/2017	8:14:39 AM	18	-15.19	28.9	50	738	
1422 DW NE FENCE SP.txt	8/4/2017	12:59:39 PM	0115249980	8/4/2017	8:14:39 AM	19	-14.48	29.1	50	738	
1422 DW NE FENCE SP.txt	8/4/2017	1:14:39 PM	0115249980	8/4/2017	8:14:39 AM	20	-14.54	29.3	50	738	
1422 DW NE FENCE SP.txt	8/4/2017	1:29:39 PM	0115249980	8/4/2017	8:14:39 AM	21	-13.88	29.7	51	738	
1422 DW NE FENCE SP.txt	8/4/2017	1:44:39 PM	0115249980	8/4/2017	8:14:39 AM	22	-14.13	30.6	48	738	
1422 DW NE FENCE SP.txt	8/4/2017	1:59:39 PM	0115249980	8/4/2017	8:14:39 AM	23	-15.28	31.4	44	738	
1422 DW NE FENCE SP.txt	8/4/2017	2:14:39 PM	0115249980	8/4/2017	8:14:39 AM	24	-16.7	31.9	42	738	
1422 DW NE FENCE SP.txt	8/4/2017	2:29:39 PM	0115249980	8/4/2017	8:14:39 AM	25	-17.35	32.1	42	736	
1422 DW NE FENCE SP.txt	8/4/2017	2:44:39 PM	0115249980	8/4/2017	8:14:39 AM	26	-17.17	31.7	42	736	
1422 DW NE FENCE SP.txt	8/4/2017	2:59:39 PM	0115249980	8/4/2017	8:14:39 AM	27	-16.2	30.6	43	736	
1422 DW NE FENCE SP.txt	8/4/2017	3:14:39 PM	0115249980	8/4/2017	8:14:39 AM	28	-16.26	29.8	47	736	
1422 DW NE FENCE SP.txt	8/4/2017	3:29:39 PM	0115249980	8/4/2017	8:14:39 AM	29	-16.57	30.2	47	736	
1422 DW NE FENCE SP.txt	8/4/2017	3:44:39 PM	0115249980	8/4/2017	8:14:39 AM	30	-17.2	32.5	42	736	
1428 DW NE CORN SX.txt	8/4/2017	7:43:33 AM	0115250007	8/4/2017	7:28:33 AM	1	-16.89	19	77	740	
1428 DW NE CORN SX.txt	8/4/2017	7:58:33 AM	0115250007	8/4/2017	7:28:33 AM	2	-16.95	19.9	78	740	
1428 DW NE CORN SX.txt	8/4/2017	8:13:33 AM	0115250007	8/4/2017	7:28:33 AM	3	-16.63	21	77	740	
1428 DW NE CORN SX.txt	8/4/2017	8:28:33 AM	0115250007	8/4/2017	7:28:33 AM	4	-22.62	23	74	740	
1428 DW NE CORN SX.txt	8/4/2017	8:43:33 AM	0115250007	8/4/2017	7:28:33 AM	5	-27.28	24.8	68	740	
1428 DW NE CORN SX.txt	8/4/2017	8:58:33 AM	0115250007	8/4/2017	7:28:33 AM	6	-30.69	26.4	64	740	
1428 DW NE CORN SX.txt	8/4/2017	9:13:33 AM	0115250007	8/4/2017	7:28:33 AM	7	-32.96	27.4	60	740	
1428 DW NE CORN SX.txt	8/4/2017	9:28:33 AM	0115250007	8/4/2017	7:28:33 AM	8	-34.23	28.5	58	740	
1428 DW NE CORN SX.txt	8/4/2017	9:43:33 AM	0115250007	8/4/2017	7:28:33 AM	9	-34.72	29.1	56	740	
1428 DW NE CORN SX.txt	8/4/2017	9:58:33 AM	0115250007	8/4/2017	7:28:33 AM	10	-35.63	28.9	56	740	
1428 DW NE CORN SX.txt	8/4/2017	10:13:33 AM	0115250007	8/4/2017	7:28:33 AM	11	-35.58	29	56	740	
1428 DW NE CORN SX.txt	8/4/2017	10:28:33 AM	0115250007	8/4/2017	7:28:33 AM	12	-36.64	29.4	55	740	
1428 DW NE CORN SX.txt	8/4/2017	10:43:33 AM	0115250007	8/4/2017	7:28:33 AM	13	-37.13	29	55	740	
1428 DW NE CORN SX.txt	8/4/2017	10:58:33 AM	0115250007	8/4/2017	7:28:33 AM	14	-25.84	29.2	54	740	
1428 DW NE CORN SX.txt	8/4/2017	11:13:33 AM	0115250007	8/4/2017	7:28:33 AM	15	-35.82	28.8	55	740	
1428 DW NE CORN SX.txt	8/4/2017	11:28:33 AM	0115250007	8/4/2017	7:28:33 AM	16	-36.03	28.9	57	740	
1428 DW NE CORN SX.txt	8/4/2017	11:43:33 AM	0115250007	8/4/2017	7:28:33 AM	17	-36.87	30.2	54	740	
1428 DW NE CORN SX.txt	8/4/2017	11:58:33 AM	0115250007	8/4/2017	7:28:33 AM	18	-39.77	31.9	50	740	
1428 DW NE CORN SX.txt	8/4/2017	12:13:33 PM	0115250007	8/4/2017	7:28:33 AM	19	-40.15	33.1	47	740	
1428 DW NE CORN SX.txt	8/4/2017	12:28:33 PM	0115250007	8/4/2017	7:28:33 AM	20	-41.51	33.3	45	740	
1428 DW NE CORN SX.txt	8/4/2017	12:43:33 PM	0115250007	8/4/2017	7:28:33 AM	21	-38.21	33.2	44	740	
1428 DW NE CORN SX.txt	8/4/2017	12:58:33 PM	0115250007	8/4/2017	7:28:33 AM	22	-30.6	32.3	46	740	
1428 DW NE CORN SX.txt	8/4/2017	1:13:33 PM	0115250007	8/4/2017	7:28:33 AM	23	-36.16	32	47	740	
1428 DW NE CORN SX.txt	8/4/2017	1:28:33 PM	0115250007	8/4/2017	7:28:33 AM	24	-37.19	32.3	46	738	
1428 DW NE CORN SX.txt	8/4/2017	1:43:33 PM	0115250007	8/4/2017	7:28:33 AM	25	-35.47	33.3	45	738	
1428 DW NE CORN SX.txt	8/4/2017	1:58:33 PM	0115250007	8/4/2017	7:28:33 AM	26	-28.02	33.7	41	738	
1428 DW NE CORN SX.txt	8/4/2017	2:13:33 PM	0115250007	8/4/2017	7:28:33 AM	27	-37.64	33.4	42	738	
1428 DW NE CORN SX.txt	8/4/2017	2:28:33 PM	0115250007	8/4/2017	7:28:33 AM	28	-39.24	33.2	42	738	
1428 DW NE CORN SX.txt	8/4/2017	2:43:33 PM	0115250007	8/4/2017	7:28:33 AM	29	-30.99	32.8	43	738	
1428 DW NE CORN SX.txt	8/4/2017	2:58:33 PM	0115250007	8/4/2017	7:28:33 AM	30	-39.11	31.6	44	738	
1428 DW NE CORN SX.txt	8/4/2017	3:13:33 PM	0115250007	8/4/2017	7:28:33 AM	31	-40.5	30.5	47	738	
1428 DW NE CORN SX.txt	8/4/2017	3:28:33 PM	0115250007	8/4/2017	7:28:33 AM	32	-35.02	30.3	49	738	
1428 DW NE CORN SX.txt	8/4/2017	3:43:33 PM	0115250007	8/4/2017	7:28:33 AM	33	-35.32	32.2	46	738	
1428 DW NE CORN SX.txt	8/4/2017	3:58:33 PM	0115250007	8/4/2017	7:28:33 AM	34	-21.27	32.4	44	738	
1428 DW NE CORN SX.txt	8/4/2017	4:13:33 PM	0115250007	8/4/2017	7:28:33 AM	35	-32.79	31.3	45	738	
1428 DW NE CORN SX.txt	8/4/2017	4:28:33 PM	0115250007	8/4/2017	7:28:33 AM	36	-18.16	30.3	47	738	
1428 DW NE CORN SX.txt	8/4/2017	4:43:33 PM	0115250007	8/4/2017	7:28:33 AM	37	-30.47	29.6	49	738	
1428 DW NE CORN SX.txt	8/4/2017	4:58:33 PM	0115250007	8/4/2017	7:28:33 AM	38	-27.29	30.2	48	738	
1429 DW N CENTER SX.txt	8/4/2017	7:42:07 AM	0115250009	8/4/2017	7:27:07 AM	1	-19.56	18.7	78	740	

Summary of CAMP Monitoring

Beech and Bonaparte

Former Sperry Remington Site - North Portion
Elmira, New York

Unit Location	Record Date	Record Time	Unit Serial Number	Start Date	Start Time	Record #	Dust Concentration in µg/m^3	Temp	RHumidity	AtmoPressure in mm/Hg	Notes
1429 DW N CENTER SX.txt	8/4/2017	7:57:07 AM	0115250009	8/4/2017	7:27:07 AM	2	-18.01	18.7	82	740	
1429 DW N CENTER SX.txt	8/4/2017	8:12:07 AM	0115250009	8/4/2017	7:27:07 AM	3	-15.81	18.8	84	740	
1429 DW N CENTER SX.txt	8/4/2017	8:27:07 AM	0115250009	8/4/2017	7:27:07 AM	4	-16.95	19.4	85	740	
1429 DW N CENTER SX.txt	8/4/2017	8:42:07 AM	0115250009	8/4/2017	7:27:07 AM	5	-20.22	20.1	82	740	
1429 DW N CENTER SX.txt	8/4/2017	8:57:07 AM	0115250009	8/4/2017	7:27:07 AM	6	-23.86	20.9	79	740	
1429 DW N CENTER SX.txt	8/4/2017	9:12:07 AM	0115250009	8/4/2017	7:27:07 AM	7	-24.94	21.6	77	740	
1429 DW N CENTER SX.txt	8/4/2017	9:27:07 AM	0115250009	8/4/2017	7:27:07 AM	8	-26.9	22.4	76	740	
1429 DW N CENTER SX.txt	8/4/2017	9:42:07 AM	0115250009	8/4/2017	7:27:07 AM	9	-29.27	23.3	73	740	
1429 DW N CENTER SX.txt	8/4/2017	9:57:07 AM	0115250009	8/4/2017	7:27:07 AM	10	-29.67	24.6	69	740	
1429 DW N CENTER SX.txt	8/4/2017	10:12:07 AM	0115250009	8/4/2017	7:27:07 AM	11	-33.19	26	63	740	
1429 DW N CENTER SX.txt	8/4/2017	10:27:07 AM	0115250009	8/4/2017	7:27:07 AM	12	-44.14	27	60	740	
1429 DW N CENTER SX.txt	8/4/2017	10:42:07 AM	0115250009	8/4/2017	7:27:07 AM	13	-45.2	27.5	57	740	
1429 DW N CENTER SX.txt	8/4/2017	10:57:07 AM	0115250009	8/4/2017	7:27:07 AM	14	-17.76	28.4	54	740	
1429 DW N CENTER SX.txt	8/4/2017	11:12:07 AM	0115250009	8/4/2017	7:27:07 AM	15	-36.1	28.4	54	740	
1429 DW N CENTER SX.txt	8/4/2017	11:27:07 AM	0115250009	8/4/2017	7:27:07 AM	16	-45.45	28.3	56	740	
1429 DW N CENTER SX.txt	8/4/2017	11:42:07 AM	0115250009	8/4/2017	7:27:07 AM	17	-46.01	29.4	53	740	
1429 DW N CENTER SX.txt	8/4/2017	11:57:07 AM	0115250009	8/4/2017	7:27:07 AM	18	-49.25	30.7	51	740	
1429 DW N CENTER SX.txt	8/4/2017	12:12:07 PM	0115250009	8/4/2017	7:27:07 AM	19	-49.89	31.4	48	740	
1429 DW N CENTER SX.txt	8/4/2017	12:27:07 PM	0115250009	8/4/2017	7:27:07 AM	20	-51.49	32	44	738	
1429 DW N CENTER SX.txt	8/4/2017	12:42:07 PM	0115250009	8/4/2017	7:27:07 AM	21	-44.89	32.6	42	738	
1429 DW N CENTER SX.txt	8/4/2017	12:57:07 PM	0115250009	8/4/2017	7:27:07 AM	22	-35.64	32.3	42	738	
1429 DW N CENTER SX.txt	8/4/2017	1:12:07 PM	0115250009	8/4/2017	7:27:07 AM	23	-43.36	32.1	43	738	
1429 DW N CENTER SX.txt	8/4/2017	1:27:07 PM	0115250009	8/4/2017	7:27:07 AM	24	-41.5	32.2	43	738	
1429 DW N CENTER SX.txt	8/4/2017	1:42:07 PM	0115250009	8/4/2017	7:27:07 AM	25	-44.51	33.1	41	738	
1429 DW N CENTER SX.txt	8/4/2017	1:57:07 PM	0115250009	8/4/2017	7:27:07 AM	26	-24.65	33.7	38	738	
1429 DW N CENTER SX.txt	8/4/2017	2:12:07 PM	0115250009	8/4/2017	7:27:07 AM	27	-46.45	33.7	37	738	
1429 DW N CENTER SX.txt	8/4/2017	2:27:07 PM	0115250009	8/4/2017	7:27:07 AM	28	-38.27	33.7	37	738	
1429 DW N CENTER SX.txt	8/4/2017	2:42:07 PM	0115250009	8/4/2017	7:27:07 AM	29	-27.43	33.2	38	738	
1429 DW N CENTER SX.txt	8/4/2017	2:57:07 PM	0115250009	8/4/2017	7:27:07 AM	30	-41.41	31.9	40	736	
1429 DW N CENTER SX.txt	8/4/2017	3:12:07 PM	0115250009	8/4/2017	7:27:07 AM	31	-45.15	30.8	44	736	
1429 DW N CENTER SX.txt	8/4/2017	3:27:07 PM	0115250009	8/4/2017	7:27:07 AM	32	-29.57	30.6	45	736	
1429 DW N CENTER SX.txt	8/4/2017	3:42:07 PM	0115250009	8/4/2017	7:27:07 AM	33	-50.38	32.9	40	736	
1429 DW N CENTER SX.txt	8/4/2017	3:57:07 PM	0115250009	8/4/2017	7:27:07 AM	34	-40.53	33.4	38	736	
1429 DW N CENTER SX.txt	8/4/2017	4:12:07 PM	0115250009	8/4/2017	7:27:07 AM	35	-36.87	32.3	40	736	
1429 DW N CENTER SX.txt	8/4/2017	4:27:07 PM	0115250009	8/4/2017	7:27:07 AM	36	-18.03	31.3	42	736	
1429 DW N CENTER SX.txt	8/4/2017	4:42:07 PM	0115250009	8/4/2017	7:27:07 AM	37	-42.42	30.7	44	736	
1860 DW NW FENCE SP.txt	8/4/2017	8:26:53 AM	0115250203	8/4/2017	8:11:53 AM	1	-0.11	20.8	77	740	
1860 DW NW FENCE SP.txt	8/4/2017	8:41:53 AM	0115250203	8/4/2017	8:11:53 AM	2	-3.03	24.8	67	740	
1860 DW NW FENCE SP.txt	8/4/2017	8:56:53 AM	0115250203	8/4/2017	8:11:53 AM	3	-5.31	28.1	57	740	
1860 DW NW FENCE SP.txt	8/4/2017	9:11:53 AM	0115250203	8/4/2017	8:11:53 AM	4	-5.98	30.3	50	740	
1860 DW NW FENCE SP.txt	8/4/2017	9:26:53 AM	0115250203	8/4/2017	8:11:53 AM	5	-7.26	32	46	740	
1860 DW NW FENCE SP.txt	8/4/2017	9:41:53 AM	0115250203	8/4/2017	8:11:53 AM	6	-8.08	33.4	43	740	
1860 DW NW FENCE SP.txt	8/4/2017	9:56:53 AM	0115250203	8/4/2017	8:11:53 AM	7	-8.45	34.6	41	740	
1860 DW NW FENCE SP.txt	8/4/2017	10:11:53 AM	0115250203	8/4/2017	8:11:53 AM	8	-9.03	34.7	40	740	
1860 DW NW FENCE SP.txt	8/4/2017	10:26:53 AM	0115250203	8/4/2017	8:11:53 AM	9	-9.55	34.7	40	740	
1860 DW NW FENCE SP.txt	8/4/2017	10:41:53 AM	0115250203	8/4/2017	8:11:53 AM	10	-9.66	34.1	41	740	
1860 DW NW FENCE SP.txt	8/4/2017	10:56:53 AM	0115250203	8/4/2017	8:11:53 AM	11	-9.49	34.1	41	740	
1860 DW NW FENCE SP.txt	8/4/2017	11:11:53 AM	0115250203	8/4/2017	8:11:53 AM	12	-9.4	33.3	43	740	
1860 DW NW FENCE SP.txt	8/4/2017	11:26:53 AM	0115250203	8/4/2017	8:11:53 AM	13	-9.28	32.6	45	740	
1860 DW NW FENCE SP.txt	8/4/2017	11:41:53 AM	0115250203	8/4/2017	8:11:53 AM	14	-9.47	34.4	42	740	
1860 DW NW FENCE SP.txt	8/4/2017	11:56:53 AM	0115250203	8/4/2017	8:11:53 AM	15	-8.74	34.7	41	738	
1860 DW NW FENCE SP.txt	8/4/2017	12:11:53 PM	0115250203	8/4/2017	8:11:53 AM	16	-9.47	34.5	42	738	
1860 DW NW FENCE SP.txt	8/4/2017	12:26:53 PM	0115250203	8/4/2017	8:11:53 AM	17	-9.91	35.5	38	738	
1860 DW NW FENCE SP.txt	8/4/2017	12:41:53 PM	0115250203	8/4/2017	8:11:53 AM	18	-9.61	35.8	38	738	
1860 DW NW FENCE SP.txt	8/4/2017	12:56:53 PM	0115250203	8/4/2017	8:11:53 AM	19	-8.55	35.6	38	738	
1860 DW NW FENCE SP.txt	8/4/2017	1:11:53 PM	0115250203	8/4/2017	8:11:53 AM	20	-8.95	35.1	39	738	
1860 DW NW FENCE SP.txt	8/4/2017	1:26:53 PM	0115250203	8/4/2017	8:11:53 AM	21	-8.18	34.6	40	738	
1860 DW NW FENCE SP.txt	8/4/2017	1:41:53 PM	0115250203	8/4/2017	8:11:53 AM	22	-7.45	34.8	40	738	
1860 DW NW FENCE SP.txt	8/4/2017	1:56:53 PM	0115250203	8/4/2017	8:11:53 AM	23	-10.39	34.9	38	738	
1860 DW NW FENCE SP.txt	8/4/2017	2:11:53 PM	0115250203	8/4/2017	8:11:53 AM	24	-10.24	34.8	37	738	
1860 DW NW FENCE SP.txt	8/4/2017	2:26:53 PM	0115250203	8/4/2017	8:11:53 AM	25	-10.24	34.4	38	736	
1860 DW NW FENCE SP.txt	8/4/2017	2:41:53 PM	0115250203	8/4/2017	8:11:53 AM	26	-10.52	34.1	38	736	
1860 DW NW FENCE SP.txt	8/4/2017	2:56:53 PM	0115250203	8/4/2017	8:11:53 AM	27	-10.15	33	40	736	
1860 DW NW FENCE SP.txt	8/4/2017	3:11:53 PM	0115250203	8/4/2017	8:11:53 AM	28	-9.95	32.2	42	736	
1860 DW NW FENCE SP.txt	8/4/2017	3:26:53 PM	0115250203	8/4/2017	8:11:53 AM	29	-9.68	32.2	43	736	
1860 DW NW FENCE SP.txt	8/4/2017	3:41:53 PM	0115250203	8/4/2017	8:11:53 AM	30	-9.78	33.6	41	736	
1936 DW NW CORNER SP.txt	8/4/2017	8:27:37 AM	0115250202	8/4/2017	8:12:37 AM	1	-2.84	19.9	80	740	
1936 DW NW CORNER SP.txt	8/4/2017	8:42:37 AM	0115250202	8/4/2017	8:12:37 AM	2	-5.7	22.2	77	740	
1936 DW NW CORNER SP.txt	8/4/2017	8:57:37 AM	0115250202	8/4/2017	8:12:37 AM	3	-7.14	24.3	69	740	
1936 DW NW CORNER SP.txt	8/4/2017	9:12:37 AM	0115250202	8/4/2017	8:12:37 AM	4	-7.87	26.1	64	740	
1936 DW NW CORNER SP.txt	8/4/2017	9:27:37 AM	0115250202	8/4/2017	8:12:37 AM	5	-8.61	27.6	59	740	
1936 DW NW CORNER SP.txt	8/4/2017	9:42:37 AM	0115250202	8/4/2017	8:12:37 AM	6	-9.29	28.4	57	740	
1936 DW NW CORNER SP.txt	8/4/2017	9:57:37 AM	0115250202	8/4/2017	8:12:37 AM	7	-9.78	28.8	55	740	
1936 DW NW CORNER SP.txt	8/4/2017	10:12:37 AM	0115250202	8/4/2017	8:12:37 AM	8	-10.3	29.1	54	740	
1936 DW NW CORNER SP.txt	8/4/2017	10:27:37 AM	0115250202	8/4/2017	8:12:37 AM	9	-10.57	29.1	53	740	
1936 DW NW CORNER SP.txt	8/4/2017	10:42:37 AM	0115250202	8/4/2017	8:12:37 AM	10	-10.82	29.1	54	740	
1936 DW NW CORNER SP.txt	8/4/2017	10:57:37 AM	0115250202	8/4/2017	8:12:37 AM	11	-10.57	29.5	52	740	
1936 DW NW CORNER SP.txt	8/4/2017	11:12:37 AM	0115250202	8/4/2017	8:12:37 AM	12	-10.37	29	54	740	
1936 DW NW CORNER SP.txt	8/4/2017	11:27:37 AM	0115250202	8/4/2017	8:12:37 AM	13	-10.45	28.7	56	740	
1936 DW NW CORNER SP.txt	8/4/2017	11:42:37 AM	0115250202	8/4/2017	8:12:37 AM	14	-10.81	29.6	53	740	
1936 DW NW CORNER SP.txt	8/4/2017	11:57:37 AM	0115250202	8/4/2017	8:12:37 AM	15	-10.18	30.4	52	740	
1936 DW NW CORNER SP.txt	8/4/2017	12:12:37 PM	0115250202	8/4/2017	8:12:37 AM	16	-10.62	31.4	49	740	
1936 DW NW CORNER SP.txt	8/4/2017	12:27:37 PM	0115250202	8/4/2017	8:12:37 AM	17	-10.82	32.1	46	740	
1936 DW NW CORNER SP.txt	8/4/2017	12:42:37 PM	0115250202	8/4/2017	8:12:37 AM	18	-9.92	32.5	45	740	
1936 DW NW CORNER SP.txt	8/4/2017	12:57:37 PM	0115250202	8/4/2017	8:12:37 AM	19	-8.89	32.1	46	740	
1936 DW NW CORNER SP.txt	8/4/2017	1:12:37 PM	0115250202	8/4/2017	8:12:37 AM	20	-9.33	32.2	46	740	
1936 DW NW CORNER SP.txt	8/4/2017	1:27:37 PM	0115250202	8/4/2017	8:12:37 AM	21	-8.54	32.7	45	738	
1936 DW NW CORNER SP.txt	8/4/2017	1:42:37 PM	0115250202	8/4/2017	8:12:37 AM	22	-9.61	33.5	42	738	
1936 DW NW CORNER SP.txt	8/4/2017	1:57:37 PM	0115250202	8/4/2017	8:12:37 AM	23	-11.22	33.8	40	738	
1936 DW NW CORNER SP.txt	8/4/2017	2:12:37 PM	0115250202	8/4/2017	8:12:37 AM	24	-11.13	33.5	40	738	
1936 DW NW CORNER SP.txt	8/4/2017	2:27:37 PM	0115250202	8/4/2017	8:12:37 AM	25	-11.36	33.2	42	738	
1936 DW NW CORNER SP.txt	8/4/2017	2:42:37 PM	0115250202	8/4/2017	8:12:37 AM	26	-11.26	32.5	42	738	
1936 DW NW CORNER SP.txt	8/4/2017	2:57:37 PM	0115250202	8/4/2017	8:12:37 AM	27	-10.76	31.1	44	738	
1936 DW NW CORNER SP.txt	8/4/2017	3:12:37 PM	0115250202	8/4/2017	8:12:37 AM	28	-10.39	30.2	46	738	
1936 DW NW CORNER SP.txt	8/4/2017	3:27:37 PM	0115250202	8/4/2017	8:12:37 AM	29	-10.55	30.1	48	738	
1936 DW NW CORNER SP.txt	8/4/2017	3:42:37 PM	0115250202	8/4/2017	8:12:37 AM	30	-10.87	31.6	45	738	
1954 UPWIND SP.txt	8/4/2017	8:33:42 AM	0115250211	8/4/2017	8:18:42 AM	1	-1.44	20	79	740	
1954 UPWIND SP.txt	8/4/2017	8:48:42 AM	0115250211	8/4/2017	8:18:42 AM	2	-2.62	20.5	82	740	
1954 UPWIND SP.txt	8/4/2017	9:03:42 AM	0115250211	8/4/2017	8:18:42 AM	3	-3.78	21	81	740	
1954 UPWIND SP.txt	8/4/2017	9:18:42 AM	0115250211	8/4/2017	8:18:42 AM	4	-4.7	21.7	80	740	
1954 UPWIND SP.txt	8/4/2017	9:33:42 AM	0115250211	8/4/2017	8:18:42 AM	5	-5.78	22.4	77	740	
1954 UPWIND SP.txt	8/4/2017	9:48:42 AM	0115250211	8/4/2017	8:18:42 AM	6	-7.03	23.1	74	738	
1954 UPWIND SP.txt	8/4/2017	10:03:42 AM	0115250211	8/4/2017	8:18:42 AM	7	-7.69	24	71	738	
1954 UPWIND SP.txt	8/4/2017	10:18:42 AM	0115250211	8/4/2017	8:18:42 AM	8	-7.99	24.7	68	740	
1954 UPWIND SP.txt	8/4/2017	10:33:42 AM	0115250211	8/4/2017	8:18:42 AM	9	-8.04	25.3	65	740	
1954 UPWIND SP.txt	8/4/2017	10:48:42 AM	0115250211	8/4/2017	8:18:42 AM	10	-7.98	25.7	63	740	
1954 UPWIND SP.txt	8/4/2017	11:03:42 AM	0115250211	8/4/2017	8:18:42 AM	11	-7.24	26.4	61	740	
1954 UPWIND SP.txt	8/4/2017	11:18:42 AM	0115250211	8/4/2017	8:18:42 AM	12	-7.18	26.9	62	740	
1954 UPWIND SP.txt	8/4/2017	11:33:42 AM	0115250211	8/4/2017	8:18:42 AM	13	-7.17	27.1	61	738	
1954 UPWIND SP.txt	8/4/2017	11:48:42 AM	0115250211	8/4/2017	8:18:42 AM	14	-6.75	28.6	57	738	
1954 UPWIND SP.txt	8/4/2017	12:03:42 PM	0115250211	8/4/2017	8:18:42 AM	15	-5.59	29.9	54	738	
1954 UPWIND SP.txt	8/4/2017	12:18:42 PM	0115250211	8/4/2017	8:18:42 AM	16	-4.13	31.5	48	738	
1954 UPWIND SP.txt	8/4/2017	12:33:42 PM	0115250211	8/4/2017	8:18:42 AM	17	-2.48	32.2	44	738	
1954 UPWIND SP.txt	8/4/2017	12:48:42 PM	0115250211	8/4/2017	8:18:42 AM	18	-0.87	32.9	43	738	
1954 UPWIND SP.txt	8/4/2017	1:03:42 PM	0115250211	8/4/2017	8:18:42 AM	19	0.06	32.5	43	738	
1954 UPWIND SP.txt	8/4/2017	1:18:42 PM	0115250211	8/4/2017	8:18:42 AM	20	0.38	32.3	44	738	
1954 UPWIND SP.txt	8/4/2017	1:33:42 PM	0115250211	8/4/2017	8:18:42 AM	21	0.5	32.1	45	738	
1954 UPWIND SP.txt	8/4/2017	1:48:42 PM	0115250211	8/4/2017	8:18:42 AM	22	-0.94	32	44	738	
1954 UPWIND SP.txt	8/4/2017	2:03:42 PM	0115250211	8/4/2017	8:18:42 AM	23	-1.88	32	43	736	
1954 UPWIND SP.txt	8/4/2017	2:18:42 PM	0115250211	8/4/2017	8:18:42 AM	24	-0.23	31.8	44	736	
1954 UPWIND SP.txt	8/4/2017	2:33:42 PM	0115250211	8/4/2017	8:18:42 AM	25	-1.87	31.7	43	736	
1954 UPWIND SP.txt	8/4/2017	2:48:42 PM	0115250211	8/4/2017	8:18:42 AM	26	-1.72	31.1	44	736	
1954 UPWIND SP.txt	8/4/2017	3:03:42 PM	0115250211	8/4/2017	8:18:42 AM	27	-1.37	30.1	45	736	
1954 UPWIND SP.txt	8/4/2017	3:18:42 PM	0115250211	8/4/2017	8:18:42 AM	28	-1.74	29.6	48	736	
1954 UPWIND SP.txt	8/4/2017	3:33:42 PM	0115250211	8/4/2017	8:18:42 AM	29	-2	30.3	47	736	
2535 UPWIND SX.txt	8/4/2017	7:45:17 AM	CM15111015	8/4/2017	7:30:17 AM	1	-45.97	19.7	72	740	
2535 UPWIND SX.txt	8/4/2017	8:00:17 AM	CM15111015	8/4/2017	7:30:17 AM	2	-51.04	21.9	67	740	
2535 UPWIND SX.txt	8/4/2017	8:15:17 AM	CM15111015	8/4/2017	7:30:17 AM	3	-58.5	23.9	62	740	
2535 UPWIND SX.txt	8/4/2017	8:30:17 AM	CM15111015	8/4/2017	7:30:17 AM	4	-62.44	25.7	58	740	
2535 UPWIND SX.txt	8/4/2017	8:45:17 AM	CM15111015	8/4/2017	7:30:17 AM	5	-68.97	27.1	55	740	
2535 UPWIND SX.txt	8/4/2017	9:00:17 AM	CM15111015	8/4/2017	7:30:17 AM	6	-72.28	28.2	52	740	
2535 UPWIND SX.txt	8/4/2017	9:15:17 AM	CM15111015	8/4/2017	7:30:17 AM	7	-75.43	29.4	50	740	

Summary of CAMP Monitoring

Beech and Bonaparte

Former Sperry Remington Site - North Portion
Elmira, New York

Unit Location	Record Date	Record Time	Unit Serial Number	Start Date	Start Time	Record #	Dust Concentration in µg/m^3	Temp	RHumidity	AtmoPressure in mm/Hg	Notes
2535 UPWIND SX.txt	8/4/2017	9:30:17 AM	CM15111015	8/4/2017	7:30:17 AM	8	-76.98	30.4	47	740	
2535 UPWIND SX.txt	8/4/2017	9:45:17 AM	CM15111015	8/4/2017	7:30:17 AM	9	-77.94	31.3	45	740	
2535 UPWIND SX.txt	8/4/2017	10:00:17 AM	CM15111015	8/4/2017	7:30:17 AM	10	-76.97	32	43	740	
2535 UPWIND SX.txt	8/4/2017	10:15:17 AM	CM15111015	8/4/2017	7:30:17 AM	11	-74.53	32	42	740	
2535 UPWIND SX.txt	8/4/2017	10:30:17 AM	CM15111015	8/4/2017	7:30:17 AM	12	-78.62	31.7	43	740	
2535 UPWIND SX.txt	8/4/2017	10:45:17 AM	CM15111015	8/4/2017	7:30:17 AM	13	-77.92	31.3	44	740	
2535 UPWIND SX.txt	8/4/2017	11:00:17 AM	CM15111015	8/4/2017	7:30:17 AM	14	-78.74	31.8	42	740	
2535 UPWIND SX.txt	8/4/2017	11:15:17 AM	CM15111015	8/4/2017	7:30:17 AM	15	-76.09	31.1	44	740	
2535 UPWIND SX.txt	8/4/2017	11:30:17 AM	CM15111015	8/4/2017	7:30:17 AM	16	-77.05	31	45	740	
2535 UPWIND SX.txt	8/4/2017	11:45:17 AM	CM15111015	8/4/2017	7:30:17 AM	17	-79.67	32.1	43	740	
2535 UPWIND SX.txt	8/4/2017	12:00:17 PM	CM15111015	8/4/2017	7:30:17 AM	18	-80.32	32.9	42	740	
2535 UPWIND SX.txt	8/4/2017	12:15:17 PM	CM15111015	8/4/2017	7:30:17 AM	19	-81.07	33	41	740	
2535 UPWIND SX.txt	8/4/2017	12:30:17 PM	CM15111015	8/4/2017	7:30:17 AM	20	-82.55	33.4	39	740	
2535 UPWIND SX.txt	8/4/2017	12:45:17 PM	CM15111015	8/4/2017	7:30:17 AM	21	-81.09	33.8	38	740	
2535 UPWIND SX.txt	8/4/2017	1:00:17 PM	CM15111015	8/4/2017	7:30:17 AM	22	-79.67	33.4	38	740	
2535 UPWIND SX.txt	8/4/2017	1:15:17 PM	CM15111015	8/4/2017	7:30:17 AM	23	-78.23	33.5	38	740	
2535 UPWIND SX.txt	8/4/2017	1:30:17 PM	CM15111015	8/4/2017	7:30:17 AM	24	-78.2	33.6	38	738	
2535 UPWIND SX.txt	8/4/2017	1:45:17 PM	CM15111015	8/4/2017	7:30:17 AM	25	-80.21	34.4	36	738	
2535 UPWIND SX.txt	8/4/2017	2:00:17 PM	CM15111015	8/4/2017	7:30:17 AM	26	-83.25	34.5	34	738	
2535 UPWIND SX.txt	8/4/2017	2:15:17 PM	CM15111015	8/4/2017	7:30:17 AM	27	-82.06	34.4	34	738	
2535 UPWIND SX.txt	8/4/2017	2:30:17 PM	CM15111015	8/4/2017	7:30:17 AM	28	-80.73	34.2	35	738	
2535 UPWIND SX.txt	8/4/2017	2:45:17 PM	CM15111015	8/4/2017	7:30:17 AM	29	-82.29	33.7	35	738	
2535 UPWIND SX.txt	8/4/2017	3:00:17 PM	CM15111015	8/4/2017	7:30:17 AM	30	-81.88	32.6	37	738	
2535 UPWIND SX.txt	8/4/2017	3:15:17 PM	CM15111015	8/4/2017	7:30:17 AM	31	-77.7	31.9	39	738	
2535 UPWIND SX.txt	8/4/2017	3:30:17 PM	CM15111015	8/4/2017	7:30:17 AM	32	-76.64	32	39	738	
2535 UPWIND SX.txt	8/4/2017	3:45:17 PM	CM15111015	8/4/2017	7:30:17 AM	33	-74.98	33.7	37	738	
2535 UPWIND SX.txt	8/4/2017	4:00:17 PM	CM15111015	8/4/2017	7:30:17 AM	34	-80.71	33.5	36	738	
2535 UPWIND SX.txt	8/4/2017	4:15:17 PM	CM15111015	8/4/2017	7:30:17 AM	35	-75.61	32.7	37	738	
2535 UPWIND SX.txt	8/4/2017	4:30:17 PM	CM15111015	8/4/2017	7:30:17 AM	36	-78.38	31.8	39	738	
2535 UPWIND SX.txt	8/4/2017	4:45:17 PM	CM15111015	8/4/2017	7:30:17 AM	37	-79.26	31.3	40	738	
2980 DW NE CORNER SP.txt	8/4/2017	8:28:37 AM	CM15111014	8/4/2017	8:13:37 AM	1	-5.03	21	78	740	
2980 DW NE CORNER SP.txt	8/4/2017	8:43:37 AM	CM15111014	8/4/2017	8:13:37 AM	2	-5.59	21.7	80	740	
2980 DW NE CORNER SP.txt	8/4/2017	8:58:37 AM	CM15111014	8/4/2017	8:13:37 AM	3	-8.21	23.1	77	740	
2980 DW NE CORNER SP.txt	8/4/2017	9:13:37 AM	CM15111014	8/4/2017	8:13:37 AM	4	-11.92	25.5	69	740	
2980 DW NE CORNER SP.txt	8/4/2017	9:28:37 AM	CM15111014	8/4/2017	8:13:37 AM	5	-15.01	27.8	62	740	
2980 DW NE CORNER SP.txt	8/4/2017	9:43:37 AM	CM15111014	8/4/2017	8:13:37 AM	6	-16.65	29.5	56	740	
2980 DW NE CORNER SP.txt	8/4/2017	9:58:37 AM	CM15111014	8/4/2017	8:13:37 AM	7	-18.04	30.4	53	740	
2980 DW NE CORNER SP.txt	8/4/2017	10:13:37 AM	CM15111014	8/4/2017	8:13:37 AM	8	-18.63	30.8	51	740	
2980 DW NE CORNER SP.txt	8/4/2017	10:28:37 AM	CM15111014	8/4/2017	8:13:37 AM	9	-19.34	31	50	740	
2980 DW NE CORNER SP.txt	8/4/2017	10:43:37 AM	CM15111014	8/4/2017	8:13:37 AM	10	-19.64	30.9	50	740	
2980 DW NE CORNER SP.txt	8/4/2017	10:58:37 AM	CM15111014	8/4/2017	8:13:37 AM	11	-19.69	31.2	49	740	
2980 DW NE CORNER SP.txt	8/4/2017	11:13:37 AM	CM15111014	8/4/2017	8:13:37 AM	12	-19.19	30.7	51	740	
2980 DW NE CORNER SP.txt	8/4/2017	11:28:37 AM	CM15111014	8/4/2017	8:13:37 AM	13	-19.04	30.4	53	740	
2980 DW NE CORNER SP.txt	8/4/2017	11:43:37 AM	CM15111014	8/4/2017	8:13:37 AM	14	-19.7	31.7	50	740	
2980 DW NE CORNER SP.txt	8/4/2017	11:58:37 AM	CM15111014	8/4/2017	8:13:37 AM	15	-19.2	32.8	49	740	
2980 DW NE CORNER SP.txt	8/4/2017	12:13:37 PM	CM15111014	8/4/2017	8:13:37 AM	16	-20.11	34	44	740	
2980 DW NE CORNER SP.txt	8/4/2017	12:28:37 PM	CM15111014	8/4/2017	8:13:37 AM	17	-20.21	34.6	41	740	
2980 DW NE CORNER SP.txt	8/4/2017	12:43:37 PM	CM15111014	8/4/2017	8:13:37 AM	18	-19.69	35	39	740	
2980 DW NE CORNER SP.txt	8/4/2017	12:58:37 PM	CM15111014	8/4/2017	8:13:37 AM	19	-18.64	34.3	41	740	
2980 DW NE CORNER SP.txt	8/4/2017	1:13:37 PM	CM15111014	8/4/2017	8:13:37 AM	20	-18.79	34.4	41	740	
2980 DW NE CORNER SP.txt	8/4/2017	1:28:37 PM	CM15111014	8/4/2017	8:13:37 AM	21	-18.37	35.2	40	740	
2980 DW NE CORNER SP.txt	8/4/2017	1:43:37 PM	CM15111014	8/4/2017	8:13:37 AM	22	-19.62	36.4	37	738	
2980 DW NE CORNER SP.txt	8/4/2017	1:58:37 PM	CM15111014	8/4/2017	8:13:37 AM	23	-20.93	36.8	35	738	
2980 DW NE CORNER SP.txt	8/4/2017	2:13:37 PM	CM15111014	8/4/2017	8:13:37 AM	24	-20.64	36.6	35	738	
2980 DW NE CORNER SP.txt	8/4/2017	2:28:37 PM	CM15111014	8/4/2017	8:13:37 AM	25	-20.66	36.1	35	738	
2980 DW NE CORNER SP.txt	8/4/2017	2:43:37 PM	CM15111014	8/4/2017	8:13:37 AM	26	-20.67	35.2	36	738	
2980 DW NE CORNER SP.txt	8/4/2017	2:58:37 PM	CM15111014	8/4/2017	8:13:37 AM	27	-20.08	33.4	39	738	
2980 DW NE CORNER SP.txt	8/4/2017	3:13:37 PM	CM15111014	8/4/2017	8:13:37 AM	28	-19.88	32.2	43	738	
2980 DW NE CORNER SP.txt	8/4/2017	3:28:37 PM	CM15111014	8/4/2017	8:13:37 AM	29	-20.03	32.2	44	738	
2980 DW NE CORNER SP.txt	8/4/2017	3:43:37 PM	CM15111014	8/4/2017	8:13:37 AM	30	-20.25	34.5	40	738	
0818 DW NW FENCE SX.txt	8/5/2017	7:58:02 AM	0115249311	8/5/2017	7:43:02 AM	1	-17.64	20.1	58	738	
0818 DW NW FENCE SX.txt	8/5/2017	8:13:02 AM	0115249311	8/5/2017	7:43:02 AM	2	-19.54	20.9	54	738	
0818 DW NW FENCE SX.txt	8/5/2017	8:28:02 AM	0115249311	8/5/2017	7:43:02 AM	3	-20.24	22.3	51	738	
0818 DW NW FENCE SX.txt	8/5/2017	8:43:02 AM	0115249311	8/5/2017	7:43:02 AM	4	-21.07	23.3	47	738	
0818 DW NW FENCE SX.txt	8/5/2017	8:58:02 AM	0115249311	8/5/2017	7:43:02 AM	5	-19.25	23.9	45	738	
0818 DW NW FENCE SX.txt	8/5/2017	9:13:02 AM	0115249311	8/5/2017	7:43:02 AM	6	-21.58	23.7	44	738	
0818 DW NW FENCE SX.txt	8/5/2017	9:28:02 AM	0115249311	8/5/2017	7:43:02 AM	7	-21.7	23.8	45	738	
0818 DW NW FENCE SX.txt	8/5/2017	9:43:02 AM	0115249311	8/5/2017	7:43:02 AM	8	-21.78	23.6	45	738	
0818 DW NW FENCE SX.txt	8/5/2017	9:58:02 AM	0115249311	8/5/2017	7:43:02 AM	9	-21.12	23.1	48	738	
0818 DW NW FENCE SX.txt	8/5/2017	10:13:02 AM	0115249311	8/5/2017	7:43:02 AM	10	-21.37	22.9	48	738	
0818 DW NW FENCE SX.txt	8/5/2017	10:28:02 AM	0115249311	8/5/2017	7:43:02 AM	11	-21.45	23.3	46	738	
0818 DW NW FENCE SX.txt	8/5/2017	10:43:02 AM	0115249311	8/5/2017	7:43:02 AM	12	-21.04	22.6	48	738	
0818 DW NW FENCE SX.txt	8/5/2017	10:58:02 AM	0115249311	8/5/2017	7:43:02 AM	13	-20.78	22.1	49	738	
0818 DW NW FENCE SX.txt	8/5/2017	11:13:02 AM	0115249311	8/5/2017	7:43:02 AM	14	-20	21.2	52	738	
0818 DW NW FENCE SX.txt	8/5/2017	11:28:02 AM	0115249311	8/5/2017	7:43:02 AM	15	-20.74	21.1	52	738	
0818 DW NW FENCE SX.txt	8/5/2017	11:43:02 AM	0115249311	8/5/2017	7:43:02 AM	16	-21.02	21.7	51	738	
0818 DW NW FENCE SX.txt	8/5/2017	11:58:02 AM	0115249311	8/5/2017	7:43:02 AM	17	-21.11	21.8	50	738	
0818 DW NW FENCE SX.txt	8/5/2017	12:13:02 PM	0115249311	8/5/2017	7:43:02 AM	18	-21.16	22.1	49	738	
0818 DW NW FENCE SX.txt	8/5/2017	12:28:02 PM	0115249311	8/5/2017	7:43:02 AM	19	-21.31	22.5	48	738	
0818 DW NW FENCE SX.txt	8/5/2017	12:43:02 PM	0115249311	8/5/2017	7:43:02 AM	20	-21.34	22.3	48	738	
0818 DW NW FENCE SX.txt	8/5/2017	12:58:02 PM	0115249311	8/5/2017	7:43:02 AM	21	-20.5	23	46	738	
0818 DW NW FENCE SX.txt	8/5/2017	1:13:02 PM	0115249311	8/5/2017	7:43:02 AM	22	-20.94	23.7	45	738	
0818 DW NW FENCE SX.txt	8/5/2017	1:28:02 PM	0115249311	8/5/2017	7:43:02 AM	23	-21.12	24.7	42	738	
0818 DW NW FENCE SX.txt	8/5/2017	1:43:02 PM	0115249311	8/5/2017	7:43:02 AM	24	-21.12	25	41	738	
0818 DW NW FENCE SX.txt	8/5/2017	1:58:02 PM	0115249311	8/5/2017	7:43:02 AM	25	-20.82	25.4	39	738	
0818 DW NW FENCE SX.txt	8/5/2017	2:13:02 PM	0115249311	8/5/2017	7:43:02 AM	26	-20.54	25.2	38	738	
0818 DW NW FENCE SX.txt	8/5/2017	2:28:02 PM	0115249311	8/5/2017	7:43:02 AM	27	-21.22	24.7	39	738	
0818 DW NW FENCE SX.txt	8/5/2017	2:43:02 PM	0115249311	8/5/2017	7:43:02 AM	28	-21.23	25.7	37	738	
0818 DW NW FENCE SX.txt	8/5/2017	2:58:02 PM	0115249311	8/5/2017	7:43:02 AM	29	-20.76	26.9	34	738	
1421 DW NW CORN SX.txt	8/5/2017	7:56:57 AM	0115249975	8/5/2017	7:41:57 AM	1	-12.39	19.1	58	738	
1421 DW NW CORN SX.txt	8/5/2017	8:11:57 AM	0115249975	8/5/2017	7:41:57 AM	2	-13.88	18.5	58	738	
1421 DW NW CORN SX.txt	8/5/2017	8:26:57 AM	0115249975	8/5/2017	7:41:57 AM	3	-14.55	19	57	738	
1421 DW NW CORN SX.txt	8/5/2017	8:41:57 AM	0115249975	8/5/2017	7:41:57 AM	4	-15.48	21.1	50	736	
1421 DW NW CORN SX.txt	8/5/2017	8:56:57 AM	0115249975	8/5/2017	7:41:57 AM	5	-15.48	22.9	45	738	
1421 DW NW CORN SX.txt	8/5/2017	9:11:57 AM	0115249975	8/5/2017	7:41:57 AM	6	-15.68	23.4	43	738	
1421 DW NW CORN SX.txt	8/5/2017	9:26:57 AM	0115249975	8/5/2017	7:41:57 AM	7	-15.12	22.9	44	738	
1421 DW NW CORN SX.txt	8/5/2017	9:41:57 AM	0115249975	8/5/2017	7:41:57 AM	8	-15.82	22.8	44	738	
1421 DW NW CORN SX.txt	8/5/2017	9:56:57 AM	0115249975	8/5/2017	7:41:57 AM	9	-16.07	21.7	47	738	
1421 DW NW CORN SX.txt	8/5/2017	10:11:57 AM	0115249975	8/5/2017	7:41:57 AM	10	-15.84	21.4	49	738	
1421 DW NW CORN SX.txt	8/5/2017	10:26:57 AM	0115249975	8/5/2017	7:41:57 AM	11	-15.71	22.2	46	738	
1421 DW NW CORN SX.txt	8/5/2017	10:41:57 AM	0115249975	8/5/2017	7:41:57 AM	12	-15.92	21.6	48	738	
1421 DW NW CORN SX.txt	8/5/2017	10:56:57 AM	0115249975	8/5/2017	7:41:57 AM	13	-15.9	21.1	49	738	
1421 DW NW CORN SX.txt	8/5/2017	11:11:57 AM	0115249975	8/5/2017	7:41:57 AM	14	-16.09	20.2	52	738	
1421 DW NW CORN SX.txt	8/5/2017	11:26:57 AM	0115249975	8/5/2017	7:41:57 AM	15	-16.3	19.7	54	738	
1421 DW NW CORN SX.txt	8/5/2017	11:41:57 AM	0115249975	8/5/2017	7:41:57 AM	16	-15.86	19.9	53	738	
1421 DW NW CORN SX.txt	8/5/2017	11:56:57 AM	0115249975	8/5/2017	7:41:57 AM	17	-16.14	20	52	738	
1421 DW NW CORN SX.txt	8/5/2017	12:11:57 PM	0115249975	8/5/2017	7:41:57 AM	18	-15.97	20.2	51	738	
1421 DW NW CORN SX.txt	8/5/2017	12:26:57 PM	0115249975	8/5/2017	7:41:57 AM	19	-16.22	20.9	49	738	
1421 DW NW CORN SX.txt	8/5/2017	12:41:57 PM	0115249975	8/5/2017	7:41:57 AM	20	-16.08	20.7	48	738	
1421 DW NW CORN SX.txt	8/5/2017	12:56:57 PM	0115249975	8/5/2017	7:41:57 AM	21	-15.97	21	48	738	
1421 DW NW CORN SX.txt	8/5/2017	1:11:57 PM	0115249975	8/5/2017	7:41:57 AM	22	-15.55	21.6	47	738	
1421 DW NW CORN SX.txt	8/5/2017	1:26:57 PM	0115249975	8/5/2017	7:41:57 AM	23	-14.86	22.4	45	738	
1421 DW NW CORN SX.txt	8/5/2017	1:41:57 PM	0115249975	8/5/2017	7:41:57 AM	24	-15.81	22.8	43	738	
1421 DW NW CORN SX.txt	8/5/2017	1:56:57 PM	0115249975	8/5/2017	7:41:57 AM	25	-15.57	23	41	738	
1421 DW NW CORN SX.txt	8/5/2017	2:11:57 PM	0115249975	8/5/2017	7:41:57 AM	26	-13.32	23.1	40	738	
1421 DW NW CORN SX.txt	8/5/2017	2:26:57 PM	0115249975	8/5/2017	7:41:57 AM	27	-15.74	22.6	40	738	
1421 DW NW CORN SX.txt	8/5/2017	2:41:57 PM	0115249975	8/5/2017	7:41:57 AM	28	-15.43	23	39	738	
1421 DW NW CORN SX.txt	8/5/2017	2:56:57 PM	0115249975	8/5/2017	7:41:57 AM	29	-14.27	24.1	37	738	
1428 DW NE CORN SX.txt	8/5/2017	7:57:49 AM	0115250007	8/5/2017	7:42:49 AM	1	-6.59	17.9	66	738	
1428 DW NE CORN SX.txt	8/5/2017	8:12:49 AM	0115250007	8/5/2017	7:42:49 AM	2	-7.73	17.2	67	738	
1428 DW NE CORN SX.txt	8/5/2017	8:27:49 AM	0115250007	8/5/2017	7:42:49 AM	3	-7.95	16.7	68	738	

Summary of CAMP Monitoring

Beech and Bonaparte

Former Sperry Remington Site - North Portion
Elmira, New York

Unit Location	Record Date	Record Time	Unit Serial Number	Start Date	Start Time	Record #	Dust Concentration in µg/m^3	Temp	RHumidity	AtmoPressure in mm/Hg	Notes
1428 DW NE CORN SX.txt	8/5/2017	8:42:49 AM	0115250007	8/5/2017	7:42:49 AM	4	-8.06	16.5	68	738	
1428 DW NE CORN SX.txt	8/5/2017	8:57:49 AM	0115250007	8/5/2017	7:42:49 AM	5	-8.23	16.6	68	738	
1428 DW NE CORN SX.txt	8/5/2017	9:12:49 AM	0115250007	8/5/2017	7:42:49 AM	6	-8.54	17	67	738	
1428 DW NE CORN SX.txt	8/5/2017	9:27:49 AM	0115250007	8/5/2017	7:42:49 AM	7	-8.74	17.3	66	738	
1428 DW NE CORN SX.txt	8/5/2017	9:42:49 AM	0115250007	8/5/2017	7:42:49 AM	8	-9.16	17.7	65	738	
1428 DW NE CORN SX.txt	8/5/2017	9:57:49 AM	0115250007	8/5/2017	7:42:49 AM	9	-9.04	17.7	65	738	
1428 DW NE CORN SX.txt	8/5/2017	10:12:49 AM	0115250007	8/5/2017	7:42:49 AM	10	-8.85	17.7	66	738	
1428 DW NE CORN SX.txt	8/5/2017	10:27:49 AM	0115250007	8/5/2017	7:42:49 AM	11	-8.94	18	65	738	
1428 DW NE CORN SX.txt	8/5/2017	10:42:49 AM	0115250007	8/5/2017	7:42:49 AM	12	-9.2	18.1	64	738	
1428 DW NE CORN SX.txt	8/5/2017	10:57:49 AM	0115250007	8/5/2017	7:42:49 AM	13	-5.07	18.1	63	738	
1428 DW NE CORN SX.txt	8/5/2017	11:12:49 AM	0115250007	8/5/2017	7:42:49 AM	14	-8.66	17.8	64	738	
1428 DW NE CORN SX.txt	8/5/2017	11:27:49 AM	0115250007	8/5/2017	7:42:49 AM	15	-9.55	17.9	64	738	
1428 DW NE CORN SX.txt	8/5/2017	11:42:49 AM	0115250007	8/5/2017	7:42:49 AM	16	-9.5	18.5	62	738	
1428 DW NE CORN SX.txt	8/5/2017	11:57:49 AM	0115250007	8/5/2017	7:42:49 AM	17	-8.28	18.5	61	738	
1428 DW NE CORN SX.txt	8/5/2017	12:12:49 PM	0115250007	8/5/2017	7:42:49 AM	18	-9.58	18.7	61	738	
1428 DW NE CORN SX.txt	8/5/2017	12:27:49 PM	0115250007	8/5/2017	7:42:49 AM	19	-9.86	19.2	59	738	
1428 DW NE CORN SX.txt	8/5/2017	12:42:49 PM	0115250007	8/5/2017	7:42:49 AM	20	-9.3	19	58	738	
1428 DW NE CORN SX.txt	8/5/2017	12:57:49 PM	0115250007	8/5/2017	7:42:49 AM	21	-10.03	19.4	58	738	
1428 DW NE CORN SX.txt	8/5/2017	1:12:49 PM	0115250007	8/5/2017	7:42:49 AM	22	-9.7	20	57	738	
1428 DW NE CORN SX.txt	8/5/2017	1:27:49 PM	0115250007	8/5/2017	7:42:49 AM	23	-9.94	21.1	55	738	
1428 DW NE CORN SX.txt	8/5/2017	1:42:49 PM	0115250007	8/5/2017	7:42:49 AM	24	-10.14	21.5	52	738	
1428 DW NE CORN SX.txt	8/5/2017	1:57:49 PM	0115250007	8/5/2017	7:42:49 AM	25	-10.2	21.8	50	738	
1428 DW NE CORN SX.txt	8/5/2017	2:12:49 PM	0115250007	8/5/2017	7:42:49 AM	26	-9.75	22	48	738	
1428 DW NE CORN SX.txt	8/5/2017	2:27:49 PM	0115250007	8/5/2017	7:42:49 AM	27	-10.27	21.7	48	738	
1428 DW NE CORN SX.txt	8/5/2017	2:42:49 PM	0115250007	8/5/2017	7:42:49 AM	28	-10.62	22.2	48	738	
1428 DW NE CORN SX.txt	8/5/2017	2:57:49 PM	0115250007	8/5/2017	7:42:49 AM	29	-10.14	23.8	44	738	
1429 DW N CENTER SX.txt	8/5/2017	7:55:09 AM	0115250009	8/5/2017	7:40:09 AM	1	-9.73	19.3	60	738	
1429 DW N CENTER SX.txt	8/5/2017	8:10:09 AM	0115250009	8/5/2017	7:40:09 AM	2	-11.89	19.5	57	738	
1429 DW N CENTER SX.txt	8/5/2017	8:25:09 AM	0115250009	8/5/2017	7:40:09 AM	3	-12.94	20.1	53	738	
1429 DW N CENTER SX.txt	8/5/2017	8:40:09 AM	0115250009	8/5/2017	7:40:09 AM	4	-13.56	21.1	50	738	
1429 DW N CENTER SX.txt	8/5/2017	8:55:09 AM	0115250009	8/5/2017	7:40:09 AM	5	-13.76	21.9	48	738	
1429 DW N CENTER SX.txt	8/5/2017	9:10:09 AM	0115250009	8/5/2017	7:40:09 AM	6	-14.28	22.8	46	738	
1429 DW N CENTER SX.txt	8/5/2017	9:25:09 AM	0115250009	8/5/2017	7:40:09 AM	7	-13.94	22.9	46	738	
1429 DW N CENTER SX.txt	8/5/2017	9:40:09 AM	0115250009	8/5/2017	7:40:09 AM	8	-14.2	23.5	45	738	
1429 DW N CENTER SX.txt	8/5/2017	9:55:09 AM	0115250009	8/5/2017	7:40:09 AM	9	-14.35	23	45	738	
1429 DW N CENTER SX.txt	8/5/2017	10:10:09 AM	0115250009	8/5/2017	7:40:09 AM	10	-14.22	22.5	47	738	
1429 DW N CENTER SX.txt	8/5/2017	10:25:09 AM	0115250009	8/5/2017	7:40:09 AM	11	-14.2	22.5	47	738	
1429 DW N CENTER SX.txt	8/5/2017	10:40:09 AM	0115250009	8/5/2017	7:40:09 AM	12	-13.94	21.8	48	738	
1429 DW N CENTER SX.txt	8/5/2017	10:55:09 AM	0115250009	8/5/2017	7:40:09 AM	13	-13.87	21.3	49	738	
1429 DW N CENTER SX.txt	8/5/2017	11:10:09 AM	0115250009	8/5/2017	7:40:09 AM	14	-14.24	20.4	49	738	
1429 DW N CENTER SX.txt	8/5/2017	11:25:09 AM	0115250009	8/5/2017	7:40:09 AM	15	-13.99	19.9	53	738	
1429 DW N CENTER SX.txt	8/5/2017	11:40:09 AM	0115250009	8/5/2017	7:40:09 AM	16	-13.95	20.4	50	738	
1429 DW N CENTER SX.txt	8/5/2017	11:55:09 AM	0115250009	8/5/2017	7:40:09 AM	17	-14.05	20.4	49	738	
1429 DW N CENTER SX.txt	8/5/2017	12:10:09 PM	0115250009	8/5/2017	7:40:09 AM	18	-13.34	20.6	49	738	
1429 DW N CENTER SX.txt	8/5/2017	12:25:09 PM	0115250009	8/5/2017	7:40:09 AM	19	-14.29	21.5	47	738	
1429 DW N CENTER SX.txt	8/5/2017	12:40:09 PM	0115250009	8/5/2017	7:40:09 AM	20	-14.49	21.4	46	738	
1429 DW N CENTER SX.txt	8/5/2017	12:55:09 PM	0115250009	8/5/2017	7:40:09 AM	21	-14.14	21.7	47	738	
1429 DW N CENTER SX.txt	8/5/2017	1:10:09 PM	0115250009	8/5/2017	7:40:09 AM	22	-13.57	22.6	46	738	
1429 DW N CENTER SX.txt	8/5/2017	1:25:09 PM	0115250009	8/5/2017	7:40:09 AM	23	-14.07	24.2	43	738	
1429 DW N CENTER SX.txt	8/5/2017	1:40:09 PM	0115250009	8/5/2017	7:40:09 AM	24	-14.2	24.8	41	738	
1429 DW N CENTER SX.txt	8/5/2017	1:55:09 PM	0115250009	8/5/2017	7:40:09 AM	25	-14.38	25.1	39	738	
1429 DW N CENTER SX.txt	8/5/2017	2:10:09 PM	0115250009	8/5/2017	7:40:09 AM	26	-12.49	25.3	38	738	
1429 DW N CENTER SX.txt	8/5/2017	2:25:09 PM	0115250009	8/5/2017	7:40:09 AM	27	-14.09	25	37	738	
1429 DW N CENTER SX.txt	8/5/2017	2:40:09 PM	0115250009	8/5/2017	7:40:09 AM	28	-14.31	25.6	37	738	
1429 DW N CENTER SX.txt	8/5/2017	2:55:09 PM	0115250009	8/5/2017	7:40:09 AM	29	-14.01	27.9	33	738	
2535 UPWIND SX.txt	8/5/2017	8:00:18 AM	CM15111015	8/5/2017	7:45:18 AM	1	-12.5	19.9	56	738	
2535 UPWIND SX.txt	8/5/2017	8:15:18 AM	CM15111015	8/5/2017	7:45:18 AM	2	-16.21	22.5	47	738	
2535 UPWIND SX.txt	8/5/2017	8:30:18 AM	CM15111015	8/5/2017	7:45:18 AM	3	-18.14	26.6	38	738	
2535 UPWIND SX.txt	8/5/2017	8:45:18 AM	CM15111015	8/5/2017	7:45:18 AM	4	-18.97	29.4	32	738	
2535 UPWIND SX.txt	8/5/2017	9:00:18 AM	CM15111015	8/5/2017	7:45:18 AM	5	-17.93	31.1	29	738	
2535 UPWIND SX.txt	8/5/2017	9:15:18 AM	CM15111015	8/5/2017	7:45:18 AM	6	-19.75	31	28	740	
2535 UPWIND SX.txt	8/5/2017	9:30:18 AM	CM15111015	8/5/2017	7:45:18 AM	7	-19.76	31.1	28	740	
2535 UPWIND SX.txt	8/5/2017	9:45:18 AM	CM15111015	8/5/2017	7:45:18 AM	8	-19.37	30.3	29	740	
2535 UPWIND SX.txt	8/5/2017	10:00:18 AM	CM15111015	8/5/2017	7:45:18 AM	9	-19.16	29	32	740	
2535 UPWIND SX.txt	8/5/2017	10:15:18 AM	CM15111015	8/5/2017	7:45:18 AM	10	-19.3	28.8	33	740	
2535 UPWIND SX.txt	8/5/2017	10:30:18 AM	CM15111015	8/5/2017	7:45:18 AM	11	-19.44	29.3	31	740	
2535 UPWIND SX.txt	8/5/2017	10:45:18 AM	CM15111015	8/5/2017	7:45:18 AM	12	-19.21	27.7	33	740	
2535 UPWIND SX.txt	8/5/2017	11:00:18 AM	CM15111015	8/5/2017	7:45:18 AM	13	-18.75	26	36	740	
2535 UPWIND SX.txt	8/5/2017	11:15:18 AM	CM15111015	8/5/2017	7:45:18 AM	14	-18.31	24.1	41	740	
2535 UPWIND SX.txt	8/5/2017	11:30:18 AM	CM15111015	8/5/2017	7:45:18 AM	15	-18.34	23.2	43	738	
2535 UPWIND SX.txt	8/5/2017	11:45:18 AM	CM15111015	8/5/2017	7:45:18 AM	16	-18.56	23.4	42	738	
2535 UPWIND SX.txt	8/5/2017	12:00:18 PM	CM15111015	8/5/2017	7:45:18 AM	17	-18.58	23.4	42	738	
2535 UPWIND SX.txt	8/5/2017	12:15:18 PM	CM15111015	8/5/2017	7:45:18 AM	18	-18.36	23.8	41	738	
2535 UPWIND SX.txt	8/5/2017	12:30:18 PM	CM15111015	8/5/2017	7:45:18 AM	19	-18.59	24.5	39	738	
2535 UPWIND SX.txt	8/5/2017	12:45:18 PM	CM15111015	8/5/2017	7:45:18 AM	20	-18.48	24.2	39	738	
2535 UPWIND SX.txt	8/5/2017	1:00:18 PM	CM15111015	8/5/2017	7:45:18 AM	21	-18.6	25.1	38	738	
2535 UPWIND SX.txt	8/5/2017	1:15:18 PM	CM15111015	8/5/2017	7:45:18 AM	22	-18.99	26.1	36	738	
2535 UPWIND SX.txt	8/5/2017	1:30:18 PM	CM15111015	8/5/2017	7:45:18 AM	23	-18.71	27.2	34	738	
2535 UPWIND SX.txt	8/5/2017	1:45:18 PM	CM15111015	8/5/2017	7:45:18 AM	24	-18.73	27.2	33	738	
2535 UPWIND SX.txt	8/5/2017	2:00:18 PM	CM15111015	8/5/2017	7:45:18 AM	25	-18.13	27.7	32	738	
2535 UPWIND SX.txt	8/5/2017	2:15:18 PM	CM15111015	8/5/2017	7:45:18 AM	26	-17.98	27.4	31	738	
2535 UPWIND SX.txt	8/5/2017	2:30:18 PM	CM15111015	8/5/2017	7:45:18 AM	27	-18.83	26.6	32	738	
2535 UPWIND SX.txt	8/5/2017	2:45:18 PM	CM15111015	8/5/2017	7:45:18 AM	28	-18.93	27.5	31	738	
2535 UPWIND SX.txt	8/5/2017	3:00:18 PM	CM15111015	8/5/2017	7:45:18 AM	29	-18.62	28.5	29	738	
1429 DW CENTER SX.txt	8/8/2017	12:00:00 AM	0115250009	8/8/2017	8:13:06 AM	27	-250.89	30.3	30	742	Calibration test
1429 DW CENTER SX.txt	8/8/2017	12:00:00 AM	0115250009	8/8/2017	8:13:06 AM	28	-255.38	31.2	28	742	Calibration test
1429 DW CENTER SX.txt	8/8/2017	12:00:00 AM	0115250009	8/8/2017	8:13:06 AM	26	-263.43	29.2	30	742	Calibration test
1429 DW CENTER SX.txt	8/8/2017	12:00:00 AM	0115250009	8/8/2017	8:13:06 AM	32	-250.85	30.5	29	742	Calibration test
1429 DW CENTER SX.txt	8/8/2017	12:00:00 AM	0115250009	8/8/2017	8:13:06 AM	25	-262.23	29.8	30	742	Calibration test
1429 DW CENTER SX.txt	8/8/2017	12:00:00 AM	0115250009	8/8/2017	8:13:06 AM	33	-255.83	31.8	26	742	Calibration test
1429 DW CENTER SX.txt	8/8/2017	12:00:00 AM	0115250009	8/8/2017	8:13:06 AM	31	-251.25	30.8	28	742	Calibration test
1429 DW CENTER SX.txt	8/8/2017	12:00:00 AM	0115250009	8/8/2017	8:13:06 AM	24	-263.46	29.1	31	742	Calibration test
1429 DW CENTER SX.txt	8/8/2017	12:00:00 AM	0115250009	8/8/2017	8:13:06 AM	29	-263.13	30.7	28	742	Calibration test
1429 DW CENTER SX.txt	8/8/2017	12:00:00 AM	0115250009	8/8/2017	8:13:06 AM	30	-263.63	30.7	28	742	Calibration test
1429 DW CENTER SX.txt	8/8/2017	12:00:00 AM	0115250009	8/8/2017	8:13:06 AM	12	-259.93	23.9	48	742	Calibration test
1429 DW CENTER SX.txt	8/8/2017	12:00:00 AM	0115250009	8/8/2017	8:13:06 AM	11	-256.22	22.8	50	742	Calibration test
1429 DW CENTER SX.txt	8/8/2017	12:00:00 AM	0115250009	8/8/2017	8:13:06 AM	10	-252.23	22.8	49	742	Calibration test
1429 DW CENTER SX.txt	8/8/2017	12:00:00 AM	0115250009	8/8/2017	8:13:06 AM	2	-211.44	18.8	65	740	Calibration test
1429 DW CENTER SX.txt	8/8/2017	12:00:00 AM	0115250009	8/8/2017	8:13:06 AM	14	-259.73	26.2	41	742	Calibration test
1429 DW CENTER SX.txt	8/8/2017	12:00:00 AM	0115250009	8/8/2017	8:13:06 AM	13	-260.27	25.6	44	742	Calibration test
1429 DW CENTER SX.txt	8/8/2017	12:00:00 AM	0115250009	8/8/2017	8:13:06 AM	3	-215.06	19.3	64	740	Calibration test
1429 DW CENTER SX.txt	8/8/2017	12:00:00 AM	0115250009	8/8/2017	8:13:06 AM	4	-232.2	20.3	59	740	Calibration test
1429 DW CENTER SX.txt	8/8/2017	12:00:00 AM	0115250009	8/8/2017	8:13:06 AM	5	-245.34	21.8	53	740	Calibration test
1429 DW CENTER SX.txt	8/8/2017	12:00:00 AM	0115250009	8/8/2017	8:13:06 AM	9	-257.05	23.6	49	742	Calibration test
1429 DW CENTER SX.txt	8/8/2017	12:00:00 AM	0115250009	8/8/2017	8:13:06 AM	8	-258.82	24.7	47	740	Calibration test
1429 DW CENTER SX.txt	8/8/2017	12:00:00 AM	0115250009	8/8/2017	8:13:06 AM	6	-250.89	23	51	740	Calibration test
1429 DW CENTER SX.txt	8/8/2017	12:00:00 AM	0115250009	8/8/2017	8:13:06 AM	15	-253.29	25.4	43	742	Calibration test
1429 DW CENTER SX.txt	8/8/2017	12:00:00 AM	0115250009	8/8/2017	8:13:06 AM	20	-259.93	26.6	39	742	Calibration test
1429 DW CENTER SX.txt	8/8/2017	12:00:00 AM	0115250009	8/8/2017	8:13:06 AM	7	-254.49	23.9	50	740	Calibration test
1429 DW CENTER SX.txt	8/8/2017	12:00:00 AM	0115250009	8/8/2017	8:13:06 AM	1	-207.56	18.4	65	740	Calibration test
1429 DW CENTER SX.txt	8/8/2017	12:00:00 AM	0115250009	8/8/2017	8:13:06 AM	23	-263.2	27.5	36	742	Calibration test
1429 DW CENTER SX.txt	8/8/2017	12:00:00 AM	0115250009	8/8/2017	8:13:06 AM	22	-261.79	27.4	35	742	Calibration test
1429 DW CENTER SX.txt	8/8/2017	12:00:00 AM	0115250009	8/8/2017	8:13:06 AM	21	-259.35	27.2	37	742	Calibration test
1429 DW CENTER SX.txt	8/8/2017	12:00:00 AM	0115250009	8/8/2017	8:13:06 AM	19	-259.99	28.1	36	742	Calibration test
1429 DW CENTER SX.txt	8/8/2017	12:00:00 AM	0115250009	8/8/2017	8:13:06 AM	17	-258.8	27.5	39	742	Calibration test
1429 DW CENTER SX.txt	8/8/2017	12:00:00 AM	0115250009	8/8/2017	8:13:06 AM	18	-259.33	27.3	39	742	Calibration test
1429 DW CENTER SX.txt	8/8/2017	12:00:00 AM	0115250009	8/8/2017	8:13:06 AM	16	-261.9	26.4	42	742	Calibration test
1421 DW NW CORNER SX.txt	8/8/2017	8:24:36 AM	0115249975	8/8/2017	8:09:36 AM	1	-166.86	19.3	61	740	
1421 DW NW CORNER SX.txt	8/8/2017	8:39:36 AM	0115249975	8/8/2017	8:09:36 AM	2	-177.21	20.7	57	740	
1421 DW NW CORNER SX.txt	8/8/2017	8:54:36 AM	0115249975	8/8/2017	8:09:36 AM	3	-183.64	22	53	740	
1421 DW NW CORNER SX.txt	8/8/2017	9:09:36 AM	0115249975	8/8/2017	8:09:36 AM	4	-191.19	23.9	47	740	
1421 DW NW CORNER SX.txt	8/8/2017	9:24:36 AM	0115249975	8/8/2017	8:09:36 AM	5	-191.12	26.7	40	740	
1421 DW NW CORNER SX.txt	8/8/2017	9:39:36 AM	0115249975	8/8/2017	8:09:36 AM	6	-192.07	29	35	740	
1421 DW NW CORNER SX.txt	8/8/2017	9:54:36 AM	0115249975	8/8/2017	8:09:36 AM	7	-192.71	29.8	33	740	
1421 DW NW CORNER SX.txt	8/8/2017	10:09:36 AM	0115249975	8/8/2017	8:09:36 AM	8	-193.61	30.1	32	740	

Former Sperry Remington Site - North Portion
Elmira, New York

Unit Location	Record Date	Record Time	Unit Serial Number	Start Date	Start Time	Record #	Dust Concentration in µg/m^3	Temp	RHumidity	AtmoPressure in mm/Hg	Notes
1421 DW NW CORNER SX.txt	8/8/2017	10:24:36 AM	0115249975	8/8/2017	8:09:36 AM	9	-193.52	28	36	740	
1421 DW NW CORNER SX.txt	8/8/2017	10:39:36 AM	0115249975	8/8/2017	8:09:36 AM	10	-191.59	26.6	38	740	
1421 DW NW CORNER SX.txt	8/8/2017	10:54:36 AM	0115249975	8/8/2017	8:09:36 AM	11	-194.25	26	39	740	
1421 DW NW CORNER SX.txt	8/8/2017	11:09:36 AM	0115249975	8/8/2017	8:09:36 AM	12	-195.23	27	37	740	
1421 DW NW CORNER SX.txt	8/8/2017	11:24:36 AM	0115249975	8/8/2017	8:09:36 AM	13	-194.3	28.9	33	740	
1421 DW NW CORNER SX.txt	8/8/2017	11:39:36 AM	0115249975	8/8/2017	8:09:36 AM	14	-192.68	29.6	31	740	
1421 DW NW CORNER SX.txt	8/8/2017	11:54:36 AM	0115249975	8/8/2017	8:09:36 AM	15	-187.45	28.7	33	740	
1421 DW NW CORNER SX.txt	8/8/2017	12:09:36 PM	0115249975	8/8/2017	8:09:36 AM	16	-195.17	30.2	30	740	
1421 DW NW CORNER SX.txt	8/8/2017	12:24:36 PM	0115249975	8/8/2017	8:09:36 AM	17	-194.67	31.8	28	740	
1421 DW NW CORNER SX.txt	8/8/2017	12:39:36 PM	0115249975	8/8/2017	8:09:36 AM	18	-193.27	32.1	27	740	
1421 DW NW CORNER SX.txt	8/8/2017	12:54:36 PM	0115249975	8/8/2017	8:09:36 AM	19	-190.64	33.2	27	740	
1421 DW NW CORNER SX.txt	8/8/2017	1:09:36 PM	0115249975	8/8/2017	8:09:36 AM	20	-189.05	31	28	740	
1421 DW NW CORNER SX.txt	8/8/2017	1:24:36 PM	0115249975	8/8/2017	8:09:36 AM	21	-194.06	31.7	26	740	
1421 DW NW CORNER SX.txt	8/8/2017	1:39:36 PM	0115249975	8/8/2017	8:09:36 AM	22	-193.36	32.1	25	740	
1421 DW NW CORNER SX.txt	8/8/2017	1:54:36 PM	0115249975	8/8/2017	8:09:36 AM	23	-196.23	31.8	25	740	
1421 DW NW CORNER SX.txt	8/8/2017	2:09:36 PM	0115249975	8/8/2017	8:09:36 AM	24	-196.31	33.6	23	740	
1421 DW NW CORNER SX.txt	8/8/2017	2:24:36 PM	0115249975	8/8/2017	8:09:36 AM	25	-194.93	34.6	21	740	
1421 DW NW CORNER SX.txt	8/8/2017	2:39:36 PM	0115249975	8/8/2017	8:09:36 AM	26	-195.19	33.5	22	740	
1421 DW NW CORNER SX.txt	8/8/2017	2:54:36 PM	0115249975	8/8/2017	8:09:36 AM	27	-182.66	34.3	21	740	
1421 DW NW CORNER SX.txt	8/8/2017	3:09:36 PM	0115249975	8/8/2017	8:09:36 AM	28	-182.77	35.6	20	740	
1421 DW NW CORNER SX.txt	8/8/2017	3:24:36 PM	0115249975	8/8/2017	8:09:36 AM	29	-194.95	35.4	19	740	
1421 DW NW CORNER SX.txt	8/8/2017	3:39:36 PM	0115249975	8/8/2017	8:09:36 AM	30	-196.34	34.1	20	740	
1421 DW NW CORNER SX.txt	8/8/2017	3:54:36 PM	0115249975	8/8/2017	8:09:36 AM	31	-174.01	34.3	21	740	
1421 DW NW CORNER SX.txt	8/8/2017	4:09:36 PM	0115249975	8/8/2017	8:09:36 AM	32	-178.18	33.6	22	740	
1421 DW NW CORNER SX.txt	8/8/2017	4:24:36 PM	0115249975	8/8/2017	8:09:36 AM	33	-184.61	35	21	740	
1428 DW NE CORNER SX.txt	8/8/2017	8:28:06 AM	0115250007	8/8/2017	8:13:06 AM	1	-102.43	18.2	68	740	
1428 DW NE CORNER SX.txt	8/8/2017	8:43:06 AM	0115250007	8/8/2017	8:13:06 AM	2	-108.01	19.3	65	740	
1428 DW NE CORNER SX.txt	8/8/2017	8:58:06 AM	0115250007	8/8/2017	8:13:06 AM	3	-113.62	20.3	63	740	
1428 DW NE CORNER SX.txt	8/8/2017	9:13:06 AM	0115250007	8/8/2017	8:13:06 AM	4	-121.88	22.2	58	740	
1428 DW NE CORNER SX.txt	8/8/2017	9:28:06 AM	0115250007	8/8/2017	8:13:06 AM	5	-123.27	24.4	52	742	
1428 DW NE CORNER SX.txt	8/8/2017	9:43:06 AM	0115250007	8/8/2017	8:13:06 AM	6	-132.76	25.9	48	742	
1428 DW NE CORNER SX.txt	8/8/2017	9:58:06 AM	0115250007	8/8/2017	8:13:06 AM	7	-136.43	26.5	46	742	
1428 DW NE CORNER SX.txt	8/8/2017	10:13:06 AM	0115250007	8/8/2017	8:13:06 AM	8	-137.08	26.7	45	742	
1428 DW NE CORNER SX.txt	8/8/2017	10:28:06 AM	0115250007	8/8/2017	8:13:06 AM	9	-135.48	24.9	48	742	
1428 DW NE CORNER SX.txt	8/8/2017	10:43:06 AM	0115250007	8/8/2017	8:13:06 AM	10	-128.89	23.7	50	742	
1428 DW NE CORNER SX.txt	8/8/2017	10:58:06 AM	0115250007	8/8/2017	8:13:06 AM	11	-131.71	23.2	51	742	
1428 DW NE CORNER SX.txt	8/8/2017	11:13:06 AM	0115250007	8/8/2017	8:13:06 AM	12	-135.55	24.2	50	742	
1428 DW NE CORNER SX.txt	8/8/2017	11:28:06 AM	0115250007	8/8/2017	8:13:06 AM	13	-137.14	25.5	47	742	
1428 DW NE CORNER SX.txt	8/8/2017	11:43:06 AM	0115250007	8/8/2017	8:13:06 AM	14	-134.78	25.6	45	742	
1428 DW NE CORNER SX.txt	8/8/2017	11:58:06 AM	0115250007	8/8/2017	8:13:06 AM	15	-134.66	25	47	742	
1428 DW NE CORNER SX.txt	8/8/2017	12:13:06 PM	0115250007	8/8/2017	8:13:06 AM	16	-138.46	26.1	45	742	
1428 DW NE CORNER SX.txt	8/8/2017	12:28:06 PM	0115250007	8/8/2017	8:13:06 AM	17	-131.27	27.2	42	742	
1428 DW NE CORNER SX.txt	8/8/2017	12:43:06 PM	0115250007	8/8/2017	8:13:06 AM	18	-136.68	27.3	42	742	
1428 DW NE CORNER SX.txt	8/8/2017	12:58:06 PM	0115250007	8/8/2017	8:13:06 AM	19	-135.85	28.3	39	742	
1428 DW NE CORNER SX.txt	8/8/2017	1:13:06 PM	0115250007	8/8/2017	8:13:06 AM	20	-137.02	26.9	41	742	
1428 DW NE CORNER SX.txt	8/8/2017	1:28:06 PM	0115250007	8/8/2017	8:13:06 AM	21	-136.4	27.9	39	742	
1428 DW NE CORNER SX.txt	8/8/2017	1:43:06 PM	0115250007	8/8/2017	8:13:06 AM	22	-139.26	27.6	37	742	
1428 DW NE CORNER SX.txt	8/8/2017	1:58:06 PM	0115250007	8/8/2017	8:13:06 AM	23	-139.35	28.2	38	742	
1428 DW NE CORNER SX.txt	8/8/2017	2:13:06 PM	0115250007	8/8/2017	8:13:06 AM	24	-139.58	30.2	33	742	
1428 DW NE CORNER SX.txt	8/8/2017	2:28:06 PM	0115250007	8/8/2017	8:13:06 AM	25	-138.19	30.7	31	742	
1428 DW NE CORNER SX.txt	8/8/2017	2:43:06 PM	0115250007	8/8/2017	8:13:06 AM	26	-139.41	30	31	742	
1428 DW NE CORNER SX.txt	8/8/2017	2:58:06 PM	0115250007	8/8/2017	8:13:06 AM	27	-134.36	31.1	31	742	
1428 DW NE CORNER SX.txt	8/8/2017	3:13:06 PM	0115250007	8/8/2017	8:13:06 AM	28	-134.23	31.7	29	742	
1428 DW NE CORNER SX.txt	8/8/2017	3:28:06 PM	0115250007	8/8/2017	8:13:06 AM	29	-136.49	31	30	742	
1428 DW NE CORNER SX.txt	8/8/2017	3:43:06 PM	0115250007	8/8/2017	8:13:06 AM	30	-134.47	30.8	30	742	
1428 DW NE CORNER SX.txt	8/8/2017	3:58:06 PM	0115250007	8/8/2017	8:13:06 AM	31	-133.5	30.5	30	742	
1428 DW NE CORNER SX.txt	8/8/2017	4:13:06 PM	0115250007	8/8/2017	8:13:06 AM	32	-135.35	30.3	31	742	
1428 DW NE CORNER SX.txt	8/8/2017	4:28:06 PM	0115250007	8/8/2017	8:13:06 AM	33	-132.5	31.3	29	742	
2535 UW FENCE SX.txt	8/8/2017	8:28:42 AM	CM15111015	8/8/2017	8:13:42 AM	1	-266.22	18.2	63	740	
2535 UW FENCE SX.txt	8/8/2017	8:43:42 AM	CM15111015	8/8/2017	8:13:42 AM	2	-265.76	18.7	62	740	
2535 UW FENCE SX.txt	8/8/2017	8:58:42 AM	CM15111015	8/8/2017	8:13:42 AM	3	-270.56	19.4	61	740	
2535 UW FENCE SX.txt	8/8/2017	9:13:42 AM	CM15111015	8/8/2017	8:13:42 AM	4	-288.64	20.9	57	742	
2535 UW FENCE SX.txt	8/8/2017	9:28:42 AM	CM15111015	8/8/2017	8:13:42 AM	5	-303.69	22.5	52	742	
2535 UW FENCE SX.txt	8/8/2017	9:43:42 AM	CM15111015	8/8/2017	8:13:42 AM	6	-313.45	23.9	48	742	
2535 UW FENCE SX.txt	8/8/2017	9:58:42 AM	CM15111015	8/8/2017	8:13:42 AM	7	-315.12	24.9	45	742	
2535 UW FENCE SX.txt	8/8/2017	10:13:42 AM	CM15111015	8/8/2017	8:13:42 AM	8	-320.39	25.3	43	742	
2535 UW FENCE SX.txt	8/8/2017	10:28:42 AM	CM15111015	8/8/2017	8:13:42 AM	9	-316.38	23.7	46	742	
2535 UW FENCE SX.txt	8/8/2017	10:43:42 AM	CM15111015	8/8/2017	8:13:42 AM	10	-312.9	22.7	48	742	
2535 UW FENCE SX.txt	8/8/2017	10:58:42 AM	CM15111015	8/8/2017	8:13:42 AM	11	-314.57	22.8	48	742	
2535 UW FENCE SX.txt	8/8/2017	11:13:42 AM	CM15111015	8/8/2017	8:13:42 AM	12	-314.22	24.3	44	742	
2535 UW FENCE SX.txt	8/8/2017	11:28:42 AM	CM15111015	8/8/2017	8:13:42 AM	13	-308.88	25.9	41	742	
2535 UW FENCE SX.txt	8/8/2017	11:43:42 AM	CM15111015	8/8/2017	8:13:42 AM	14	-310.05	26.2	39	742	
2535 UW FENCE SX.txt	8/8/2017	11:58:42 AM	CM15111015	8/8/2017	8:13:42 AM	15	-310.53	25.6	40	742	
2535 UW FENCE SX.txt	8/8/2017	12:13:42 PM	CM15111015	8/8/2017	8:13:42 AM	16	-316.94	26.6	38	742	
2535 UW FENCE SX.txt	8/8/2017	12:28:42 PM	CM15111015	8/8/2017	8:13:42 AM	17	-315.5	27.4	37	742	
2535 UW FENCE SX.txt	8/8/2017	12:43:42 PM	CM15111015	8/8/2017	8:13:42 AM	18	-306.18	27.4	35	742	
2535 UW FENCE SX.txt	8/8/2017	12:58:42 PM	CM15111015	8/8/2017	8:13:42 AM	19	-315.91	28.3	34	742	
2535 UW FENCE SX.txt	8/8/2017	1:13:42 PM	CM15111015	8/8/2017	8:13:42 AM	20	-309.72	27	36	742	
2535 UW FENCE SX.txt	8/8/2017	1:28:42 PM	CM15111015	8/8/2017	8:13:42 AM	21	-283.75	28	33	742	
2535 UW FENCE SX.txt	8/8/2017	1:43:42 PM	CM15111015	8/8/2017	8:13:42 AM	22	-310.7	27.7	32	742	
2535 UW FENCE SX.txt	8/8/2017	1:58:42 PM	CM15111015	8/8/2017	8:13:42 AM	23	-314.4	28.2	32	742	
2535 UW FENCE SX.txt	8/8/2017	2:13:42 PM	CM15111015	8/8/2017	8:13:42 AM	24	-311.02	29.8	28	742	
2535 UW FENCE SX.txt	8/8/2017	2:28:42 PM	CM15111015	8/8/2017	8:13:42 AM	25	-307.18	30.1	27	742	
2535 UW FENCE SX.txt	8/8/2017	2:43:42 PM	CM15111015	8/8/2017	8:13:42 AM	26	-248.1	29.9	27	742	
2535 UW FENCE SX.txt	8/8/2017	2:58:42 PM	CM15111015	8/8/2017	8:13:42 AM	27	-312.77	31.3	25	742	
2535 UW FENCE SX.txt	8/8/2017	3:13:42 PM	CM15111015	8/8/2017	8:13:42 AM	28	-315.87	32.9	22	742	
2535 UW FENCE SX.txt	8/8/2017	3:28:42 PM	CM15111015	8/8/2017	8:13:42 AM	29	-299.22	32.7	23	742	
2535 UW FENCE SX.txt	8/8/2017	3:43:42 PM	CM15111015	8/8/2017	8:13:42 AM	30	-270.92	32.4	23	742	
2535 UW FENCE SX.txt	8/8/2017	3:58:42 PM	CM15111015	8/8/2017	8:13:42 AM	31	-311.57	32.4	22	742	
2535 UW FENCE SX.txt	8/8/2017	4:13:42 PM	CM15111015	8/8/2017	8:13:42 AM	32	-311.42	32.4	23	742	
2535 UW FENCE SX.txt	8/8/2017	4:28:42 PM	CM15111015	8/8/2017	8:13:42 AM	33	-315.57	33.8	21	742	
818 DW NW FENCE SX.txt	8/8/2017	8:23:54 AM	0115249311	8/8/2017	8:08:54 AM	1	-170.83	19.7	62	740	
818 DW NW FENCE SX.txt	8/8/2017	8:38:54 AM	0115249311	8/8/2017	8:08:54 AM	2	-173.3	20.3	60	740	
818 DW NW FENCE SX.txt	8/8/2017	8:53:54 AM	0115249311	8/8/2017	8:08:54 AM	3	-181.12	21.6	57	740	
818 DW NW FENCE SX.txt	8/8/2017	9:08:54 AM	0115249311	8/8/2017	8:08:54 AM	4	-189.77	23.5	52	740	
818 DW NW FENCE SX.txt	8/8/2017	9:23:54 AM	0115249311	8/8/2017	8:08:54 AM	5	-197.46	24.8	47	740	
818 DW NW FENCE SX.txt	8/8/2017	9:38:54 AM	0115249311	8/8/2017	8:08:54 AM	6	-198.28	25.4	46	740	
818 DW NW FENCE SX.txt	8/8/2017	9:53:54 AM	0115249311	8/8/2017	8:08:54 AM	7	-199.62	26	45	740	
818 DW NW FENCE SX.txt	8/8/2017	10:08:54 AM	0115249311	8/8/2017	8:08:54 AM	8	-200.24	26.9	42	740	
818 DW NW FENCE SX.txt	8/8/2017	10:23:54 AM	0115249311	8/8/2017	8:08:54 AM	9	-199.33	25.6	44	740	
818 DW NW FENCE SX.txt	8/8/2017	10:38:54 AM	0115249311	8/8/2017	8:08:54 AM	10	-198.49	24.3	47	740	
818 DW NW FENCE SX.txt	8/8/2017	10:53:54 AM	0115249311	8/8/2017	8:08:54 AM	11	-199.27	24.3	47	740	
818 DW NW FENCE SX.txt	8/8/2017	11:08:54 AM	0115249311	8/8/2017	8:08:54 AM	12	-201.25	25.4	44	740	
818 DW NW FENCE SX.txt	8/8/2017	11:23:54 AM	0115249311	8/8/2017	8:08:54 AM	13	-199.44	26.7	41	740	
818 DW NW FENCE SX.txt	8/8/2017	11:38:54 AM	0115249311	8/8/2017	8:08:54 AM	14	-199.09	27	39	740	
818 DW NW FENCE SX.txt	8/8/2017	11:53:54 AM	0115249311	8/8/2017	8:08:54 AM	15	-192.2	26	42	740	
818 DW NW FENCE SX.txt	8/8/2017	12:08:54 PM	0115249311	8/8/2017	8:08:54 AM	16	-201.52	26.6	41	740	
818 DW NW FENCE SX.txt	8/8/2017	12:23:54 PM	0115249311	8/8/2017	8:08:54 AM	17	-200.57	28	38	740	
818 DW NW FENCE SX.txt	8/8/2017	12:38:54 PM	0115249311	8/8/2017	8:08:54 AM	18	-199.06	27.5	38	740	
818 DW NW FENCE SX.txt	8/8/2017	12:53:54 PM	0115249311	8/8/2017	8:08:54 AM	19	-198.47	28.5	33	740	
818 DW NW FENCE SX.txt	8/8/2017	1:08:54 PM	0115249311	8/8/2017	8:08:54 AM	20	-199.19	27.9	37	740	
818 DW NW FENCE SX.txt	8/8/2017	1:23:54 PM	0115249311	8/8/2017	8:08:54 AM	21	-200.36	28.1	35	740	
818 DW NW FENCE SX.txt	8/8/2017	1:38:54 PM	0115249311	8/8/2017	8:08:54 AM	22	-199.53	28.1	33	742	
818 DW NW FENCE SX.txt	8/8/2017	1:53:54 PM	0115249311	8/8/2017	8:08:54 AM	23	-202.4	28.7	32	742	
818 DW NW FENCE SX.txt	8/8/2017	2:08:54 PM	0115249311	8/8/2017	8:08:54 AM	24	-203.01	30.6	29	742	
818 DW NW FENCE SX.txt	8/8/2017	2:23:54 PM	0115249311	8/8/2017	8:08:54 AM	25	-202.21	30.6	28	742	
818 DW NW FENCE SX.txt	8/8/2017	2:38:54 PM	0115249311	8/8/2017	8:08:54 AM	26	-202.17	29.8	27	740	
818 DW NW FENCE SX.txt	8/8/2017	2:53:54 PM	0115249311	8/8/2017	8:08:54 AM	27	-192.95	30.8	27	740	
818 DW NW FENCE SX.txt	8/8/2017	3:08:54 PM	0115249311	8/8/2017	8:08:54 AM	28	-195.44	30.8	28	742	
818 DW NW FENCE SX.txt	8/8/2017	3:23:54 PM	0115249311	8/8/2017	8:08:54 AM	29	-198.71	30.6	27	742	
818 DW NW FENCE SX.txt	8/8/2017	3:38:54 PM	0115249311	8/8/2017	8:08:54 AM	30	-203.14	31.1	26	742	
818 DW NW FENCE SX.txt	8/8/2017	3:53:54 PM	0115249311	8/8/2017	8:08:54 AM	31	-184.16	31.3	26	742	
818 DW NW FENCE SX.txt	8/8/2017	4:08:54 PM	0115249311	8/8/2017	8:08:54 AM	32	-177.26	30.6	27	742	

Summary of CAMP Monitoring

Beech and Bonaparte

Former Sperry Remington Site - North Portion
Elmira, New York

Unit Location	Record Date	Record Time	Unit Serial Number	Start Date	Start Time	Record #	Dust Concentration in µg/m^3	Temp	RHumidity	AtmoPressure in mm/Hg	Notes
1421 DW NW CORNER SX.txt	8/9/2017	7:47:23 AM	0115249975	8/9/2017	7:32:23 AM	1	-6.53	15.1	62	744	
1421 DW NW CORNER SX.txt	8/9/2017	8:02:23 AM	0115249975	8/9/2017	7:32:23 AM	2	-7.81	15.6	63	744	
1421 DW NW CORNER SX.txt	8/9/2017	8:17:23 AM	0115249975	8/9/2017	7:32:23 AM	3	-7.75	16.9	60	744	
1421 DW NW CORNER SX.txt	8/9/2017	8:32:23 AM	0115249975	8/9/2017	7:32:23 AM	4	-6.89	17.8	57	744	
1421 DW NW CORNER SX.txt	8/9/2017	8:47:23 AM	0115249975	8/9/2017	7:32:23 AM	5	-6.24	18.8	54	744	
1421 DW NW CORNER SX.txt	8/9/2017	9:02:23 AM	0115249975	8/9/2017	7:32:23 AM	6	-2.92	20.4	51	746	
1421 DW NW CORNER SX.txt	8/9/2017	9:17:23 AM	0115249975	8/9/2017	7:32:23 AM	7	-3.75	22.1	47	746	
1421 DW NW CORNER SX.txt	8/9/2017	9:32:23 AM	0115249975	8/9/2017	7:32:23 AM	8	1.26	23.6	44	746	
1421 DW NW CORNER SX.txt	8/9/2017	9:47:23 AM	0115249975	8/9/2017	7:32:23 AM	9	0.79	24.4	43	746	
1421 DW NW CORNER SX.txt	8/9/2017	10:02:23 AM	0115249975	8/9/2017	7:32:23 AM	10	-5.72	25.1	43	746	
1421 DW NW CORNER SX.txt	8/9/2017	10:17:23 AM	0115249975	8/9/2017	7:32:23 AM	11	0.55	26	41	746	
1421 DW NW CORNER SX.txt	8/9/2017	10:32:23 AM	0115249975	8/9/2017	7:32:23 AM	12	-1.51	26.6	40	746	
1421 DW NW CORNER SX.txt	8/9/2017	10:47:23 AM	0115249975	8/9/2017	7:32:23 AM	13	-3.9	27.8	38	746	
1421 DW NW CORNER SX.txt	8/9/2017	11:02:23 AM	0115249975	8/9/2017	7:32:23 AM	14	-0.12	29.1	36	746	
1421 DW NW CORNER SX.txt	8/9/2017	11:17:23 AM	0115249975	8/9/2017	7:32:23 AM	15	-0.1	30	35	746	
1421 DW NW CORNER SX.txt	8/9/2017	11:32:23 AM	0115249975	8/9/2017	7:32:23 AM	16	-1.58	30.4	34	746	
1421 DW NW CORNER SX.txt	8/9/2017	11:47:23 AM	0115249975	8/9/2017	7:32:23 AM	17	2.09	30.6	33	746	
1421 DW NW CORNER SX.txt	8/9/2017	12:02:23 PM	0115249975	8/9/2017	7:32:23 AM	18	5.09	31.5	32	746	
1421 DW NW CORNER SX.txt	8/9/2017	12:17:23 PM	0115249975	8/9/2017	7:32:23 AM	19	3.36	32.3	30	746	
1421 DW NW CORNER SX.txt	8/9/2017	12:32:23 PM	0115249975	8/9/2017	7:32:23 AM	20	5.41	33	31	746	
1421 DW NW CORNER SX.txt	8/9/2017	12:47:23 PM	0115249975	8/9/2017	7:32:23 AM	21	12.9	33.4	30	746	
1421 DW NW CORNER SX.txt	8/9/2017	1:02:23 PM	0115249975	8/9/2017	7:32:23 AM	22	19.74	33.8	29	744	
1421 DW NW CORNER SX.txt	8/9/2017	1:17:23 PM	0115249975	8/9/2017	7:32:23 AM	23	17.31	33.7	29	744	
1421 DW NW CORNER SX.txt	8/9/2017	1:32:23 PM	0115249975	8/9/2017	7:32:23 AM	24	44.92	34	29	744	
1421 DW NW CORNER SX.txt	8/9/2017	1:47:23 PM	0115249975	8/9/2017	7:32:23 AM	25	34.39	33.1	29	744	
1421 DW NW CORNER SX.txt	8/9/2017	2:02:23 PM	0115249975	8/9/2017	7:32:23 AM	26	41.66	32.9	28	744	
1421 DW NW CORNER SX.txt	8/9/2017	2:17:23 PM	0115249975	8/9/2017	7:32:23 AM	27	24.26	32.6	29	744	
1421 DW NW CORNER SX.txt	8/9/2017	2:32:23 PM	0115249975	8/9/2017	7:32:23 AM	28	24.45	34	28	744	
1421 DW NW CORNER SX.txt	8/9/2017	2:47:23 PM	0115249975	8/9/2017	7:32:23 AM	29	27.42	34.6	25	744	
1421 DW NW CORNER SX.txt	8/9/2017	3:02:23 PM	0115249975	8/9/2017	7:32:23 AM	30	24.98	35.5	22	744	
1421 DW NW CORNER SX.txt	8/9/2017	3:17:23 PM	0115249975	8/9/2017	7:32:23 AM	31	70.96	35.9	21	744	
1421 DW NW CORNER SX.txt	8/9/2017	3:32:23 PM	0115249975	8/9/2017	7:32:23 AM	32	27.29	37.4	19	744	
1421 DW NW CORNER SX.txt	8/9/2017	3:47:23 PM	0115249975	8/9/2017	7:32:23 AM	33	28.78	37.7	19	744	
1421 DW NW CORNER SX.txt	8/9/2017	4:02:23 PM	0115249975	8/9/2017	7:32:23 AM	34	98.65	37.9	19	744	
1421 DW NW CORNER SX.txt	8/9/2017	4:17:23 PM	0115249975	8/9/2017	7:32:23 AM	35	205.34	37.8	18	744	
1421 DW NW CORNER SX.txt	8/9/2017	4:32:23 PM	0115249975	8/9/2017	7:32:23 AM	36	34.25	37.1	19	744	
1428 DW NE CORNER SX.txt	8/9/2017	7:59:34 AM	0115250007	8/9/2017	7:44:34 AM	1	-3.28	15.4	64	744	
1428 DW NE CORNER SX.txt	8/9/2017	8:14:34 AM	0115250007	8/9/2017	7:44:34 AM	2	-2.81	16.1	64	744	
1428 DW NE CORNER SX.txt	8/9/2017	8:29:34 AM	0115250007	8/9/2017	7:44:34 AM	3	-1.24	17	63	746	
1428 DW NE CORNER SX.txt	8/9/2017	8:44:34 AM	0115250007	8/9/2017	7:44:34 AM	4	-2.45	17.9	60	746	
1428 DW NE CORNER SX.txt	8/9/2017	8:59:34 AM	0115250007	8/9/2017	7:44:34 AM	5	3.33	19.2	58	746	
1428 DW NE CORNER SX.txt	8/9/2017	9:14:34 AM	0115250007	8/9/2017	7:44:34 AM	6	6.55	20.7	55	746	
1428 DW NE CORNER SX.txt	8/9/2017	9:29:34 AM	0115250007	8/9/2017	7:44:34 AM	7	-0.2	22.1	52	746	
1428 DW NE CORNER SX.txt	8/9/2017	9:44:34 AM	0115250007	8/9/2017	7:44:34 AM	8	7.08	23.4	51	746	
1428 DW NE CORNER SX.txt	8/9/2017	9:59:34 AM	0115250007	8/9/2017	7:44:34 AM	9	-4.06	24.3	51	746	
1428 DW NE CORNER SX.txt	8/9/2017	10:14:34 AM	0115250007	8/9/2017	7:44:34 AM	10	-2.53	25.4	48	746	
1428 DW NE CORNER SX.txt	8/9/2017	10:29:34 AM	0115250007	8/9/2017	7:44:34 AM	11	-2.55	26.1	47	746	
1428 DW NE CORNER SX.txt	8/9/2017	10:44:34 AM	0115250007	8/9/2017	7:44:34 AM	12	-3.53	27	45	746	
1428 DW NE CORNER SX.txt	8/9/2017	10:59:34 AM	0115250007	8/9/2017	7:44:34 AM	13	19.05	28.3	42	746	
1428 DW NE CORNER SX.txt	8/9/2017	11:14:34 AM	0115250007	8/9/2017	7:44:34 AM	14	16.33	29.4	42	746	
1428 DW NE CORNER SX.txt	8/9/2017	11:29:34 AM	0115250007	8/9/2017	7:44:34 AM	15	-1.77	30	41	746	
1428 DW NE CORNER SX.txt	8/9/2017	11:44:34 AM	0115250007	8/9/2017	7:44:34 AM	16	7.21	30.6	38	746	
1428 DW NE CORNER SX.txt	8/9/2017	11:59:34 AM	0115250007	8/9/2017	7:44:34 AM	17	23.57	31.4	37	746	
1428 DW NE CORNER SX.txt	8/9/2017	12:14:34 PM	0115250007	8/9/2017	7:44:34 AM	18	6.27	32.3	35	746	
1428 DW NE CORNER SX.txt	8/9/2017	12:29:34 PM	0115250007	8/9/2017	7:44:34 AM	19	3.6	32.6	34	746	
1428 DW NE CORNER SX.txt	8/9/2017	12:44:34 PM	0115250007	8/9/2017	7:44:34 AM	20	10.04	32.6	34	746	
1428 DW NE CORNER SX.txt	8/9/2017	12:59:34 PM	0115250007	8/9/2017	7:44:34 AM	21	11.52	32.6	34	746	
1428 DW NE CORNER SX.txt	8/9/2017	1:14:34 PM	0115250007	8/9/2017	7:44:34 AM	22	14.78	32.3	33	746	
1428 DW NE CORNER SX.txt	8/9/2017	1:29:34 PM	0115250007	8/9/2017	7:44:34 AM	23	22.64	32.5	32	746	
1428 DW NE CORNER SX.txt	8/9/2017	1:44:34 PM	0115250007	8/9/2017	7:44:34 AM	24	28.65	32.7	31	746	
1428 DW NE CORNER SX.txt	8/9/2017	1:59:34 PM	0115250007	8/9/2017	7:44:34 AM	25	24.64	33.3	30	746	
1428 DW NE CORNER SX.txt	8/9/2017	2:14:34 PM	0115250007	8/9/2017	7:44:34 AM	26	26.01	33.6	30	746	
1428 DW NE CORNER SX.txt	8/9/2017	2:29:34 PM	0115250007	8/9/2017	7:44:34 AM	27	20.15	34.2	30	746	
1428 DW NE CORNER SX.txt	8/9/2017	2:44:34 PM	0115250007	8/9/2017	7:44:34 AM	28	25.59	34.1	29	746	
1428 DW NE CORNER SX.txt	8/9/2017	2:59:34 PM	0115250007	8/9/2017	7:44:34 AM	29	21.4	34.2	29	746	
1428 DW NE CORNER SX.txt	8/9/2017	3:14:34 PM	0115250007	8/9/2017	7:44:34 AM	30	22.97	34.5	28	746	
1428 DW NE CORNER SX.txt	8/9/2017	3:29:34 PM	0115250007	8/9/2017	7:44:34 AM	31	25.15	35.5	28	746	
1428 DW NE CORNER SX.txt	8/9/2017	3:44:34 PM	0115250007	8/9/2017	7:44:34 AM	32	22.58	36	27	746	
1428 DW NE CORNER SX.txt	8/9/2017	3:59:34 PM	0115250007	8/9/2017	7:44:34 AM	33	23.93	35.9	27	746	
1428 DW NE CORNER SX.txt	8/9/2017	4:14:34 PM	0115250007	8/9/2017	7:44:34 AM	34	45.01	35.4	27	746	
1428 DW NE CORNER SX.txt	8/9/2017	4:29:34 PM	0115250007	8/9/2017	7:44:34 AM	35	25.28	34.1	28	746	
1429 DW CENTER FENCE SX.txt	8/9/2017	7:45:19 AM	0115250009	8/9/2017	7:30:19 AM	1	-5.02	13.8	69	746	
1429 DW CENTER FENCE SX.txt	8/9/2017	8:00:19 AM	0115250009	8/9/2017	7:30:19 AM	2	-4.81	14	70	746	
1429 DW CENTER FENCE SX.txt	8/9/2017	8:15:19 AM	0115250009	8/9/2017	7:30:19 AM	3	-6.4	14.9	67	746	
1429 DW CENTER FENCE SX.txt	8/9/2017	8:30:19 AM	0115250009	8/9/2017	7:30:19 AM	4	-3.45	15.3	66	746	
1429 DW CENTER FENCE SX.txt	8/9/2017	8:45:19 AM	0115250009	8/9/2017	7:30:19 AM	5	-5.71	15.4	66	746	
1429 DW CENTER FENCE SX.txt	8/9/2017	9:00:19 AM	0115250009	8/9/2017	7:30:19 AM	6	1.25	16.2	66	746	
1429 DW CENTER FENCE SX.txt	8/9/2017	9:15:19 AM	0115250009	8/9/2017	7:30:19 AM	7	-3.58	17.5	63	746	
1429 DW CENTER FENCE SX.txt	8/9/2017	9:30:19 AM	0115250009	8/9/2017	7:30:19 AM	8	-3.16	18.9	60	746	
1429 DW CENTER FENCE SX.txt	8/9/2017	9:45:19 AM	0115250009	8/9/2017	7:30:19 AM	9	2.26	20.3	56	746	
1429 DW CENTER FENCE SX.txt	8/9/2017	10:00:19 AM	0115250009	8/9/2017	7:30:19 AM	10	-7.59	21.4	54	746	
1429 DW CENTER FENCE SX.txt	8/9/2017	10:15:19 AM	0115250009	8/9/2017	7:30:19 AM	11	-5.55	22.8	52	746	
1429 DW CENTER FENCE SX.txt	8/9/2017	10:30:19 AM	0115250009	8/9/2017	7:30:19 AM	12	-4.65	23.5	51	746	
1429 DW CENTER FENCE SX.txt	8/9/2017	10:45:19 AM	0115250009	8/9/2017	7:30:19 AM	13	-7.34	24.9	47	746	
1429 DW CENTER FENCE SX.txt	8/9/2017	11:00:19 AM	0115250009	8/9/2017	7:30:19 AM	14	-6.02	26.7	44	746	
1429 DW CENTER FENCE SX.txt	8/9/2017	11:15:19 AM	0115250009	8/9/2017	7:30:19 AM	15	-1.79	27.8	43	746	
1429 DW CENTER FENCE SX.txt	8/9/2017	11:30:19 AM	0115250009	8/9/2017	7:30:19 AM	16	-6.1	28.7	41	746	
1429 DW CENTER FENCE SX.txt	8/9/2017	11:45:19 AM	0115250009	8/9/2017	7:30:19 AM	17	-2.32	29.4	39	746	
1429 DW CENTER FENCE SX.txt	8/9/2017	12:00:19 PM	0115250009	8/9/2017	7:30:19 AM	18	3.75	30.5	37	746	
1429 DW CENTER FENCE SX.txt	8/9/2017	12:15:19 PM	0115250009	8/9/2017	7:30:19 AM	19	-2.25	31.8	34	746	
1429 DW CENTER FENCE SX.txt	8/9/2017	12:30:19 PM	0115250009	8/9/2017	7:30:19 AM	20	-0.96	32.1	32	746	
1429 DW CENTER FENCE SX.txt	8/9/2017	12:45:19 PM	0115250009	8/9/2017	7:30:19 AM	21	5.43	32	32	746	
1429 DW CENTER FENCE SX.txt	8/9/2017	1:00:19 PM	0115250009	8/9/2017	7:30:19 AM	22	12.36	31.9	32	746	
1429 DW CENTER FENCE SX.txt	8/9/2017	1:15:19 PM	0115250009	8/9/2017	7:30:19 AM	23	13.41	31.4	32	746	
1429 DW CENTER FENCE SX.txt	8/9/2017	1:30:19 PM	0115250009	8/9/2017	7:30:19 AM	24	37.92	31.7	32	746	
1429 DW CENTER FENCE SX.txt	8/9/2017	1:45:19 PM	0115250009	8/9/2017	7:30:19 AM	25	28.55	31.1	32	746	
1429 DW CENTER FENCE SX.txt	8/9/2017	2:00:19 PM	0115250009	8/9/2017	7:30:19 AM	26	28.85	30.8	32	746	
1429 DW CENTER FENCE SX.txt	8/9/2017	2:15:19 PM	0115250009	8/9/2017	7:30:19 AM	27	23.79	30.6	33	746	
1429 DW CENTER FENCE SX.txt	8/9/2017	2:30:19 PM	0115250009	8/9/2017	7:30:19 AM	28	19.34	31.7	32	746	
1429 DW CENTER FENCE SX.txt	8/9/2017	2:45:19 PM	0115250009	8/9/2017	7:30:19 AM	29	18.84	32.3	29	746	
1429 DW CENTER FENCE SX.txt	8/9/2017	3:00:19 PM	0115250009	8/9/2017	7:30:19 AM	30	20.85	32.9	28	746	
1429 DW CENTER FENCE SX.txt	8/9/2017	3:15:19 PM	0115250009	8/9/2017	7:30:19 AM	31	40.11	33.6	27	746	
1429 DW CENTER FENCE SX.txt	8/9/2017	3:30:19 PM	0115250009	8/9/2017	7:30:19 AM	32	29.05	34.8	25	746	
1429 DW CENTER FENCE SX.txt	8/9/2017	3:45:19 PM	0115250009	8/9/2017	7:30:19 AM	33	17.31	35.5	25	746	
1429 DW CENTER FENCE SX.txt	8/9/2017	4:00:19 PM	0115250009	8/9/2017	7:30:19 AM	34	32.02	35.5	24	746	
1429 DW CENTER FENCE SX.txt	8/9/2017	4:15:19 PM	0115250009	8/9/2017	7:30:19 AM	35	54.81	35.3	24	746	
1429 DW CENTER FENCE SX.txt	8/9/2017	4:30:19 PM	0115250009	8/9/2017	7:30:19 AM	36	19.36	34.5	25	746	
2535 UW FENCE SX.txt	8/9/2017	7:56:01 AM	CM15111015	8/9/2017	7:41:01 AM	1	-3.31	13.9	64	746	
2535 UW FENCE SX.txt	8/9/2017	8:11:01 AM	CM15111015	8/9/2017	7:41:01 AM	2	-2.65	14.6	65	746	
2535 UW FENCE SX.txt	8/9/2017	8:26:01 AM	CM15111015	8/9/2017	7:41:01 AM	3	-3.82	15.4	62	746	
2535 UW FENCE SX.txt	8/9/2017	8:41:01 AM	CM15111015	8/9/2017	7:41:01 AM	4	-3.52	16.4	60	746	
2535 UW FENCE SX.txt	8/9/2017	8:56:01 AM	CM15111015	8/9/2017	7:41:01 AM	5	-0.53	17.4	57	746	
2535 UW FENCE SX.txt	8/9/2017	9:11:01 AM	CM15111015	8/9/2017	7:41:01 AM	6	-0.72	18.5	55	746	
2535 UW FENCE SX.txt	8/9/2017	9:26:01 AM	CM15111015	8/9/2017	7:41:01 AM	7	8.25	19.7	54	746	
2535 UW FENCE SX.txt	8/9/2017	9:41:01 AM	CM15111015	8/9/2017	7:41:01 AM	8	-1.43	20.5	52	746	
2535 UW FENCE SX.txt	8/9/2017	9:56:01 AM	CM15111015	8/9/2017	7:41:01 AM	9	-2.24	21	52	746	
2535 UW FENCE SX.txt	8/9/2017	10:11:01 AM	CM15111015	8/9/2017	7:41:01 AM	10	-3.71	21.9	50	746	
2535 UW FENCE SX.txt	8/9/2017	10:26:01 AM	CM15111015	8/9/2017	7:41:01 AM	11	-1.33	22.6	48	746	
2535 UW FENCE SX.txt	8/9/2017	10:41:01 AM	CM15111015	8/9/2017	7:41:01 AM	12	-2.21	23.6	47	746	
2535 UW FENCE SX.txt	8/9/2017	10:56:01 AM	CM15111015	8/9/2017	7:41:01 AM	13	0.55	24.8	45	746	
2535 UW FENCE SX.txt	8/9/2017	11:11:01 AM	CM15111015	8/9/2017	7:41:01 AM	14	-2.36	25.8	43	746	
2535 UW FENCE SX.txt	8/9/2017	11:26:01 AM	CM15111015	8/9/2017	7:41:01 AM	15	-1.73	26.8	41	746	
2535 UW FENCE SX.txt	8/9/2017	11:41:01 AM	CM15111015	8/9/2017	7:41:01 AM	16	-0.89	27.9	38	746	
2535 UW FENCE SX.txt	8/9/2017	11:56:01 AM	CM15111015	8/9/2017	7:41:01 AM	17	2.81	29.2	37	746	
2535 UW FENCE SX.txt	8/9/2017	12:11:01 PM	CM15111015	8/9/2017	7:41:01 AM	18	-0.67	30.5	34	746	
2535 UW FENCE SX.txt	8/9/2017	12:26:01 PM	CM15111015	8/9/2017	7:41:01 AM	19	2.45	31.5	31	746	
2535 UW FENCE SX.txt	8/9/2017	12:41:01 PM	CM15111015	8/9/2017	7:41:01 AM	20	6.54	32	29	746	
2535 UW FENCE SX.txt	8/9/2017	12:56:01 PM	CM15111015	8/9/2017	7:41:01 AM	21	25.16	32.6	29	746	

Summary of CAMP Monitoring

Beech and Bonaparte

Former Sperry Remington Site - North Portion
Elmira, New York

Unit Location	Record Date	Record Time	Unit Serial Number	Start Date	Start Time	Record #	Dust Concentration in µg/m^3	Temp	RHumidity	AtmoPressure in mm/Hg	Notes
2535 UW FENCE SX.txt	8/9/2017	1:11:01 PM	CM15111015	8/9/2017	7:41:01 AM	22	14.22	32.5	27	746	
2535 UW FENCE SX.txt	8/9/2017	1:26:01 PM	CM15111015	8/9/2017	7:41:01 AM	23	19.45	33	26	746	
2535 UW FENCE SX.txt	8/9/2017	1:41:01 PM	CM15111015	8/9/2017	7:41:01 AM	24	20.79	33.4	25	746	
2535 UW FENCE SX.txt	8/9/2017	1:56:01 PM	CM15111015	8/9/2017	7:41:01 AM	25	25.36	33.7	24	746	
2535 UW FENCE SX.txt	8/9/2017	2:11:01 PM	CM15111015	8/9/2017	7:41:01 AM	26	22.92	34.2	23	746	
2535 UW FENCE SX.txt	8/9/2017	2:26:01 PM	CM15111015	8/9/2017	7:41:01 AM	27	19.14	34.7	24	746	
2535 UW FENCE SX.txt	8/9/2017	2:41:01 PM	CM15111015	8/9/2017	7:41:01 AM	28	20.02	35.6	22	746	
2535 UW FENCE SX.txt	8/9/2017	2:56:01 PM	CM15111015	8/9/2017	7:41:01 AM	29	19.95	36.1	22	746	
2535 UW FENCE SX.txt	8/9/2017	3:11:01 PM	CM15111015	8/9/2017	7:41:01 AM	30	20.67	36.3	21	746	
2535 UW FENCE SX.txt	8/9/2017	3:26:01 PM	CM15111015	8/9/2017	7:41:01 AM	31	21.75	36.9	21	746	
2535 UW FENCE SX.txt	8/9/2017	3:41:01 PM	CM15111015	8/9/2017	7:41:01 AM	32	23.31	37.6	21	746	
2535 UW FENCE SX.txt	8/9/2017	3:56:01 PM	CM15111015	8/9/2017	7:41:01 AM	33	28.15	38.2	20	746	
2535 UW FENCE SX.txt	8/9/2017	4:11:01 PM	CM15111015	8/9/2017	7:41:01 AM	34	36.7	38.6	20	746	
2535 UW FENCE SX.txt	8/9/2017	4:26:01 PM	CM15111015	8/9/2017	7:41:01 AM	35	30.66	37.7	20	746	
818 DW NW FENCE SX.txt	8/9/2017	7:42:32 AM	0115249311	8/9/2017	7:27:32 AM	1	-4.21	15.3	64	744	
818 DW NW FENCE SX.txt	8/9/2017	7:57:32 AM	0115249311	8/9/2017	7:27:32 AM	2	-5.29	16.8	61	744	
818 DW NW FENCE SX.txt	8/9/2017	8:12:32 AM	0115249311	8/9/2017	7:27:32 AM	3	-6.13	18.3	57	744	
818 DW NW FENCE SX.txt	8/9/2017	8:27:32 AM	0115249311	8/9/2017	7:27:32 AM	4	-5.06	19.3	55	746	
818 DW NW FENCE SX.txt	8/9/2017	8:42:32 AM	0115249311	8/9/2017	7:27:32 AM	5	-5.25	19.8	53	746	
1422 DW NE FENCE SP.txt	8/10/2017	8:18:32 AM	0115249980	8/10/2017	8:03:32 AM	1	-0.62	15.7	68	746	
1422 DW NE FENCE SP.txt	8/10/2017	8:33:32 AM	0115249980	8/10/2017	8:03:32 AM	2	-1.08	15	73	746	
1422 DW NE FENCE SP.txt	8/10/2017	8:48:32 AM	0115249980	8/10/2017	8:03:32 AM	3	-13.21	14.8	76	746	
1422 DW NE FENCE SP.txt	8/10/2017	9:03:32 AM	0115249980	8/10/2017	8:03:32 AM	4	-15.13	15.9	74	746	
1422 DW NE FENCE SP.txt	8/10/2017	9:18:32 AM	0115249980	8/10/2017	8:03:32 AM	5	-17.38	17.4	69	746	
1422 DW NE FENCE SP.txt	8/10/2017	9:33:32 AM	0115249980	8/10/2017	8:03:32 AM	6	-20.19	18.6	66	746	
1422 DW NE FENCE SP.txt	8/10/2017	9:48:32 AM	0115249980	8/10/2017	8:03:32 AM	7	-22.06	20.2	62	746	
1422 DW NE FENCE SP.txt	8/10/2017	10:03:32 AM	0115249980	8/10/2017	8:03:32 AM	8	-19.08	20.7	61	746	
1422 DW NE FENCE SP.txt	8/10/2017	10:18:32 AM	0115249980	8/10/2017	8:03:32 AM	9	-21.92	21.7	60	746	
1422 DW NE FENCE SP.txt	8/10/2017	10:33:32 AM	0115249980	8/10/2017	8:03:32 AM	10	-22.31	22.8	57	746	
1422 DW NE FENCE SP.txt	8/10/2017	10:48:32 AM	0115249980	8/10/2017	8:03:32 AM	11	-24.46	23.6	56	746	
1422 DW NE FENCE SP.txt	8/10/2017	11:03:32 AM	0115249980	8/10/2017	8:03:32 AM	12	-26.58	24.4	53	746	
1422 DW NE FENCE SP.txt	8/10/2017	11:18:32 AM	0115249980	8/10/2017	8:03:32 AM	13	-27.36	24.9	52	746	
1422 DW NE FENCE SP.txt	8/10/2017	11:33:32 AM	0115249980	8/10/2017	8:03:32 AM	14	-27.35	25.4	50	746	
1422 DW NE FENCE SP.txt	8/10/2017	11:48:32 AM	0115249980	8/10/2017	8:03:32 AM	15	-27.31	26	45	746	
1422 DW NE FENCE SP.txt	8/10/2017	12:03:32 PM	0115249980	8/10/2017	8:03:32 AM	16	-29.19	26.4	37	746	
1422 DW NE FENCE SP.txt	8/10/2017	12:18:32 PM	0115249980	8/10/2017	8:03:32 AM	17	-29.9	26.8	42	746	
1422 DW NE FENCE SP.txt	8/10/2017	12:33:32 PM	0115249980	8/10/2017	8:03:32 AM	18	-29.97	27.8	40	746	
1422 DW NE FENCE SP.txt	8/10/2017	12:48:32 PM	0115249980	8/10/2017	8:03:32 AM	19	-29.52	28.9	37	746	
1422 DW NE FENCE SP.txt	8/10/2017	1:03:32 PM	0115249980	8/10/2017	8:03:32 AM	20	-29.04	29.4	35	744	
1422 DW NE FENCE SP.txt	8/10/2017	1:18:32 PM	0115249980	8/10/2017	8:03:32 AM	21	-28.89	29.7	33	744	
1422 DW NE FENCE SP.txt	8/10/2017	1:33:32 PM	0115249980	8/10/2017	8:03:32 AM	22	-27.88	30	32	744	
1422 DW NE FENCE SP.txt	8/10/2017	1:48:32 PM	0115249980	8/10/2017	8:03:32 AM	23	-29.04	30.4	31	744	
1860 DW NW FENCE SP.txt	8/10/2017	8:14:14 AM	0115250203	8/10/2017	7:59:14 AM	1	-22.88	16.1	69	746	
1860 DW NW FENCE SP.txt	8/10/2017	8:29:14 AM	0115250203	8/10/2017	7:59:14 AM	2	-24.22	15.9	73	746	
1860 DW NW FENCE SP.txt	8/10/2017	8:44:14 AM	0115250203	8/10/2017	7:59:14 AM	3	-31.47	17.3	69	746	
1860 DW NW FENCE SP.txt	8/10/2017	8:59:14 AM	0115250203	8/10/2017	7:59:14 AM	4	-36.92	20.1	62	746	
1860 DW NW FENCE SP.txt	8/10/2017	9:14:14 AM	0115250203	8/10/2017	7:59:14 AM	5	-42	23.5	53	746	
1860 DW NW FENCE SP.txt	8/10/2017	9:29:14 AM	0115250203	8/10/2017	7:59:14 AM	6	-45.13	25.3	48	746	
1860 DW NW FENCE SP.txt	8/10/2017	9:44:14 AM	0115250203	8/10/2017	7:59:14 AM	7	-45.95	27.8	43	746	
1860 DW NW FENCE SP.txt	8/10/2017	9:59:14 AM	0115250203	8/10/2017	7:59:14 AM	8	-45.59	29.6	39	746	
1860 DW NW FENCE SP.txt	8/10/2017	10:14:14 AM	0115250203	8/10/2017	7:59:14 AM	9	-45.28	30.9	38	746	
1860 DW NW FENCE SP.txt	8/10/2017	10:29:14 AM	0115250203	8/10/2017	7:59:14 AM	10	-46.08	31.5	37	746	
1860 DW NW FENCE SP.txt	8/10/2017	10:44:14 AM	0115250203	8/10/2017	7:59:14 AM	11	-46.65	33	35	746	
1860 DW NW FENCE SP.txt	8/10/2017	10:59:14 AM	0115250203	8/10/2017	7:59:14 AM	12	-47.16	33.9	33	746	
1860 DW NW FENCE SP.txt	8/10/2017	11:14:14 AM	0115250203	8/10/2017	7:59:14 AM	13	-47.55	33.8	33	746	
1860 DW NW FENCE SP.txt	8/10/2017	11:29:14 AM	0115250203	8/10/2017	7:59:14 AM	14	-48.16	34.1	32	746	
1860 DW NW FENCE SP.txt	8/10/2017	11:44:14 AM	0115250203	8/10/2017	7:59:14 AM	15	-48.9	35.7	30	746	
1860 DW NW FENCE SP.txt	8/10/2017	11:59:14 AM	0115250203	8/10/2017	7:59:14 AM	16	-50.37	36.8	24	746	
1860 DW NW FENCE SP.txt	8/10/2017	12:14:14 PM	0115250203	8/10/2017	7:59:14 AM	17	-49.69	36.7	25	746	
1860 DW NW FENCE SP.txt	8/10/2017	12:29:14 PM	0115250203	8/10/2017	7:59:14 AM	18	-49.83	34.9	27	746	
1860 DW NW FENCE SP.txt	8/10/2017	12:44:14 PM	0115250203	8/10/2017	7:59:14 AM	19	-49.23	34.6	28	746	
1860 DW NW FENCE SP.txt	8/10/2017	12:59:14 PM	0115250203	8/10/2017	7:59:14 AM	20	-47.32	34.9	28	746	
1860 DW NW FENCE SP.txt	8/10/2017	1:14:14 PM	0115250203	8/10/2017	7:59:14 AM	21	-47.2	34.8	27	746	
1860 DW NW FENCE SP.txt	8/10/2017	1:29:14 PM	0115250203	8/10/2017	7:59:14 AM	22	-49.4	34.3	27	744	
1860 DW NW FENCE SP.txt	8/10/2017	1:44:14 PM	0115250203	8/10/2017	7:59:14 AM	23	-49.39	33.8	27	744	
1936 DW NW CORNER SP.txt	8/10/2017	8:14:50 AM	0115250202	8/10/2017	7:59:50 AM	1	-24.3	15.9	71	746	
1936 DW NW CORNER SP.txt	8/10/2017	8:29:50 AM	0115250202	8/10/2017	7:59:50 AM	2	-22.22	15.2	76	746	
1936 DW NW CORNER SP.txt	8/10/2017	8:44:50 AM	0115250202	8/10/2017	7:59:50 AM	3	-43.68	15.5	76	746	
1936 DW NW CORNER SP.txt	8/10/2017	8:59:50 AM	0115250202	8/10/2017	7:59:50 AM	4	-45.22	16.5	74	746	
1936 DW NW CORNER SP.txt	8/10/2017	9:14:50 AM	0115250202	8/10/2017	7:59:50 AM	5	-45.06	18.4	69	746	
1936 DW NW CORNER SP.txt	8/10/2017	9:29:50 AM	0115250202	8/10/2017	7:59:50 AM	6	-46.24	19.7	65	746	
1936 DW NW CORNER SP.txt	8/10/2017	9:44:50 AM	0115250202	8/10/2017	7:59:50 AM	7	-46.38	22.2	58	746	
1936 DW NW CORNER SP.txt	8/10/2017	9:59:50 AM	0115250202	8/10/2017	7:59:50 AM	8	-46.69	24	54	746	
1936 DW NW CORNER SP.txt	8/10/2017	10:14:50 AM	0115250202	8/10/2017	7:59:50 AM	9	-46.51	25.7	51	748	
1936 DW NW CORNER SP.txt	8/10/2017	10:29:50 AM	0115250202	8/10/2017	7:59:50 AM	10	-46.5	26.7	50	746	
1936 DW NW CORNER SP.txt	8/10/2017	10:44:50 AM	0115250202	8/10/2017	7:59:50 AM	11	-46.69	27.8	47	746	
1936 DW NW CORNER SP.txt	8/10/2017	10:59:50 AM	0115250202	8/10/2017	7:59:50 AM	12	-47.61	28.8	45	746	
1936 DW NW CORNER SP.txt	8/10/2017	11:14:50 AM	0115250202	8/10/2017	7:59:50 AM	13	-47.16	30.2	43	746	
1936 DW NW CORNER SP.txt	8/10/2017	11:29:50 AM	0115250202	8/10/2017	7:59:50 AM	14	-48.79	31.8	40	746	
1936 DW NW CORNER SP.txt	8/10/2017	11:44:50 AM	0115250202	8/10/2017	7:59:50 AM	15	-49.51	33.2	36	748	
1936 DW NW CORNER SP.txt	8/10/2017	11:59:50 AM	0115250202	8/10/2017	7:59:50 AM	16	-50.9	32.7	30	746	
1936 DW NW CORNER SP.txt	8/10/2017	12:14:50 PM	0115250202	8/10/2017	7:59:50 AM	17	-50.28	32.4	34	746	
1936 DW NW CORNER SP.txt	8/10/2017	12:29:50 PM	0115250202	8/10/2017	7:59:50 AM	18	-50.55	32.5	33	746	
1936 DW NW CORNER SP.txt	8/10/2017	12:44:50 PM	0115250202	8/10/2017	7:59:50 AM	19	-49.07	32.6	33	746	
1936 DW NW CORNER SP.txt	8/10/2017	12:59:50 PM	0115250202	8/10/2017	7:59:50 AM	20	-46.89	32.3	33	746	
1936 DW NW CORNER SP.txt	8/10/2017	1:14:50 PM	0115250202	8/10/2017	7:59:50 AM	21	-48.68	32.2	32	746	
1936 DW NW CORNER SP.txt	8/10/2017	1:29:50 PM	0115250202	8/10/2017	7:59:50 AM	22	-49.85	32	31	746	
1936 DW NW CORNER SP.txt	8/10/2017	1:44:50 PM	0115250202	8/10/2017	7:59:50 AM	23	-50.08	32	30	746	
1954 UW TEE POST SP.txt	8/10/2017	8:11:47 AM	0115250211	8/10/2017	7:56:47 AM	1	-21.01	16.5	69	746	
1954 UW TEE POST SP.txt	8/10/2017	8:26:47 AM	0115250211	8/10/2017	7:56:47 AM	2	-20.48	15.7	73	746	
1954 UW TEE POST SP.txt	8/10/2017	8:41:47 AM	0115250211	8/10/2017	7:56:47 AM	3	-23.19	15.3	76	746	
1954 UW TEE POST SP.txt	8/10/2017	8:56:47 AM	0115250211	8/10/2017	7:56:47 AM	4	-22.6	15	78	746	
1954 UW TEE POST SP.txt	8/10/2017	9:11:47 AM	0115250211	8/10/2017	7:56:47 AM	5	-22	14.8	81	746	
1954 UW TEE POST SP.txt	8/10/2017	9:26:47 AM	0115250211	8/10/2017	7:56:47 AM	6	-22.63	15	81	746	
1954 UW TEE POST SP.txt	8/10/2017	9:41:47 AM	0115250211	8/10/2017	7:56:47 AM	7	-23.73	15.5	80	746	
1954 UW TEE POST SP.txt	8/10/2017	9:56:47 AM	0115250211	8/10/2017	7:56:47 AM	8	-25.41	16.2	78	746	
1954 UW TEE POST SP.txt	8/10/2017	10:11:47 AM	0115250211	8/10/2017	7:56:47 AM	9	-24.46	17.2	78	746	
1954 UW TEE POST SP.txt	8/10/2017	10:26:47 AM	0115250211	8/10/2017	7:56:47 AM	10	-27.52	18.3	75	746	
1954 UW TEE POST SP.txt	8/10/2017	10:41:47 AM	0115250211	8/10/2017	7:56:47 AM	11	-30.23	19.4	71	746	
1954 UW TEE POST SP.txt	8/10/2017	10:56:47 AM	0115250211	8/10/2017	7:56:47 AM	12	-31.93	20.5	68	746	
1954 UW TEE POST SP.txt	8/10/2017	11:11:47 AM	0115250211	8/10/2017	7:56:47 AM	13	-34.09	21.8	63	746	
1954 UW TEE POST SP.txt	8/10/2017	11:26:47 AM	0115250211	8/10/2017	7:56:47 AM	14	-35.89	22.9	59	746	
1954 UW TEE POST SP.txt	8/10/2017	11:41:47 AM	0115250211	8/10/2017	7:56:47 AM	15	-36.05	24.1	55	746	
1954 UW TEE POST SP.txt	8/10/2017	11:56:47 AM	0115250211	8/10/2017	7:56:47 AM	16	-35.51	26.5	41	746	
1954 UW TEE POST SP.txt	8/10/2017	12:11:47 PM	0115250211	8/10/2017	7:56:47 AM	17	-33.76	28.5	38	746	
1954 UW TEE POST SP.txt	8/10/2017	12:26:47 PM	0115250211	8/10/2017	7:56:47 AM	18	-33.47	29.1	38	746	
1954 UW TEE POST SP.txt	8/10/2017	12:41:47 PM	0115250211	8/10/2017	7:56:47 AM	19	-32.42	29.9	36	746	
1954 UW TEE POST SP.txt	8/10/2017	12:56:47 PM	0115250211	8/10/2017	7:56:47 AM	20	-30.52	30.7	35	746	
1954 UW TEE POST SP.txt	8/10/2017	1:11:47 PM	0115250211	8/10/2017	7:56:47 AM	21	-31.72	31.1	33	746	
1954 UW TEE POST SP.txt	8/10/2017	1:26:47 PM	0115250211	8/10/2017	7:56:47 AM	22	-32.33	30.5	32	746	
1954 UW TEE POST SP.txt	8/10/2017	1:41:47 PM	0115250211	8/10/2017	7:56:47 AM	23	-32.76	29.8	33	746	
1954 UW TEE POST SP.txt	8/10/2017	1:56:47 PM	0115250211	8/10/2017	7:56:47 AM	24	-31.76	29.3	31	746	
2980 DW NE CORNER SP.txt	8/10/2017	8:16:43 AM	CM15111014	8/10/2017	8:01:43 AM	1	6.34	17.7	68	746	
2980 DW NE CORNER SP.txt	8/10/2017	8:31:43 AM	CM15111014	8/10/2017	8:01:43 AM	2	3.09	16.7	73	746	
2980 DW NE CORNER SP.txt	8/10/2017	8:46:43 AM	CM15111014	8/10/2017	8:01:43 AM	3	-8.62	16.5	76	746	
2980 DW NE CORNER SP.txt	8/10/2017	9:01:43 AM	CM15111014	8/10/2017	8:01:43 AM	4	-9.07	16.2	78	746	
2980 DW NE CORNER SP.txt	8/10/2017	9:16:43 AM	CM15111014	8/10/2017	8:01:43 AM	5	-6.56	16.4	79	746	
2980 DW NE CORNER SP.txt	8/10/2017	9:31:43 AM	CM15111014	8/10/2017	8:01:43 AM	6	-5.85	16.9	79	746	
2980 DW NE CORNER SP.txt	8/10/2017	9:46:43 AM	CM15111014	8/10/2017	8:01:43 AM	7	-12.79	18.1	76	746	
2980 DW NE CORNER SP.txt	8/10/2017	10:01:43 AM	CM15111014	8/10/2017	8:01:43 AM	8	-15.9	20.5	69	746	
2980 DW NE CORNER SP.txt	8/10/2017	10:16:43 AM	CM15111014	8/10/2017	8:01:43 AM	9	-17.78	23.6	61	746	
2980 DW NE CORNER SP.txt	8/10/2017	10:31:43 AM	CM15111014	8/10/2017	8:01:43 AM	10	-20.5	25.7	56	746	
2980 DW NE CORNER SP.txt	8/10/2017	10:46:43 AM	CM15111014	8/10/2017	8:01:43 AM	11	-21.54	27.9	50	746	
2980 DW NE CORNER SP.txt	8/10/2017	11:01:43 AM	CM15111014	8/10/2017	8:01:43 AM	12	-21.85	29.8	44	746	
2980 DW NE CORNER SP.txt	8/10/2017	11:16:43 AM	CM15111014	8/10/2017	8:01:43 AM	13	-23.16	31.1	41	748	

Summary of CAMP Monitoring

Beech and Bonaparte

Former Sperry Remington Site - North Portion
Elmira, New York

Unit Location	Record Date	Record Time	Unit Serial Number	Start Date	Start Time	Record #	Dust Concentration in µg/m^3	Temp	RHumidity	AtmoPressure in mm/Hg	Notes
2980 DW NE CORNER SP.txt	8/10/2017	11:31:43 AM	CM15111014	8/10/2017	8:01:43 AM	14	-23.74	32.3	38	746	
2980 DW NE CORNER SP.txt	8/10/2017	11:46:43 AM	CM15111014	8/10/2017	8:01:43 AM	15	-24.72	33.5	34	746	
2980 DW NE CORNER SP.txt	8/10/2017	12:01:43 PM	CM15111014	8/10/2017	8:01:43 AM	16	-24.92	33.3	29	746	
2980 DW NE CORNER SP.txt	8/10/2017	12:16:43 PM	CM15111014	8/10/2017	8:01:43 AM	17	-25.1	33.1	32	746	
2980 DW NE CORNER SP.txt	8/10/2017	12:31:43 PM	CM15111014	8/10/2017	8:01:43 AM	18	-25.55	33.5	31	746	
2980 DW NE CORNER SP.txt	8/10/2017	12:46:43 PM	CM15111014	8/10/2017	8:01:43 AM	19	-24.15	33.9	31	746	
2980 DW NE CORNER SP.txt	8/10/2017	1:01:43 PM	CM15111014	8/10/2017	8:01:43 AM	20	-22.74	33.8	30	746	
2980 DW NE CORNER SP.txt	8/10/2017	1:16:43 PM	CM15111014	8/10/2017	8:01:43 AM	21	-23.1	33.5	28	746	
2980 DW NE CORNER SP.txt	8/10/2017	1:31:43 PM	CM15111014	8/10/2017	8:01:43 AM	22	-24.35	33.2	28	746	
2980 DW NE CORNER SP.txt	8/10/2017	1:46:43 PM	CM15111014	8/10/2017	8:01:43 AM	23	-24.69	33.1	27	746	

Notes:

Reported dust concentration is the difference between the upwind and downwind monitors

Appendix E

Well Abandonment Forms

FIGURE 1

MONITORING WELL FIELD INSPECTION LOG

Remington
Former Sperry

FIGURE 1

SITE NAME:

SITE ID.: MW-155
INSPECTOR: AR
DATE/TIME: 6-26-2014
WELL ID.: MW-155

MONITORING WELL FIELD INSPECTION LOG
NYSDEC WELL DECOMMISSIONING PROGRAM

	YES	NO
WELL VISIBLE? (If not, provide directions below)	✓	
WELL I.D. VISIBLE?	✓	
WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back)	✓	

WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL: MW-155

	YES	NO
SURFACE SEAL PRESENT?	✓	
SURFACE SEAL COMPETENT? (If cracked, heaved etc., describe below)	✓	
PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below)	✓	

HEADSPACE READING (ppm) AND INSTRUMENT USED: 0 0
TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable): NA
PROTECTIVE CASING MATERIAL TYPE: NA
MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches): 5"

	YES	NO
LOCK PRESENT?		✓
LOCK FUNCTIONAL? Not applicable		✓
DID YOU REPLACE THE LOCK? No		
IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes,describe below)		✓
WELL MEASURING POINT VISIBLE?		✓

MEASURE WELL DEPTH FROM MEASURING POINT (Feet): ~19'
MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet): ~10'
MEASURE WELL DIAMETER (Inches): 2"
WELL CASING MATERIAL: PVC
PHYSICAL CONDITION OF VISIBLE WELL CASING: Good
ATTACH ID MARKER (if well ID is confirmed) and IDENTIFY MARKER TYPE No label will id
PROXIMITY TO UNDERGROUND OR OVERHEAD UTILITIES: NA

DESCRIBE ACCESS TO WELL: (Include accessibility to truck mounted rig, natural obstructions, overhead power lines, proximity to permanent structures, etc.); ADD SKETCH OF LOCATION ON BACK, IF NECESSARY.
NA

DESCRIBE WELL SETTING (For example, located in a field, in a playground, on pavement, in a garden, etc.) AND ASSESS THE TYPE OF RESTORATION REQUIRED.
In mulch bed

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT (e.g. Gas station, salt pile, etc.):
NA

REMARKS:
Hand mix grout mixture, bentonite slurry

FIGURE 2

DECOMMISSIONING PROCEDURE SELECTION

NYSDEC Monitoring Well Decommissioning Procedure Selection

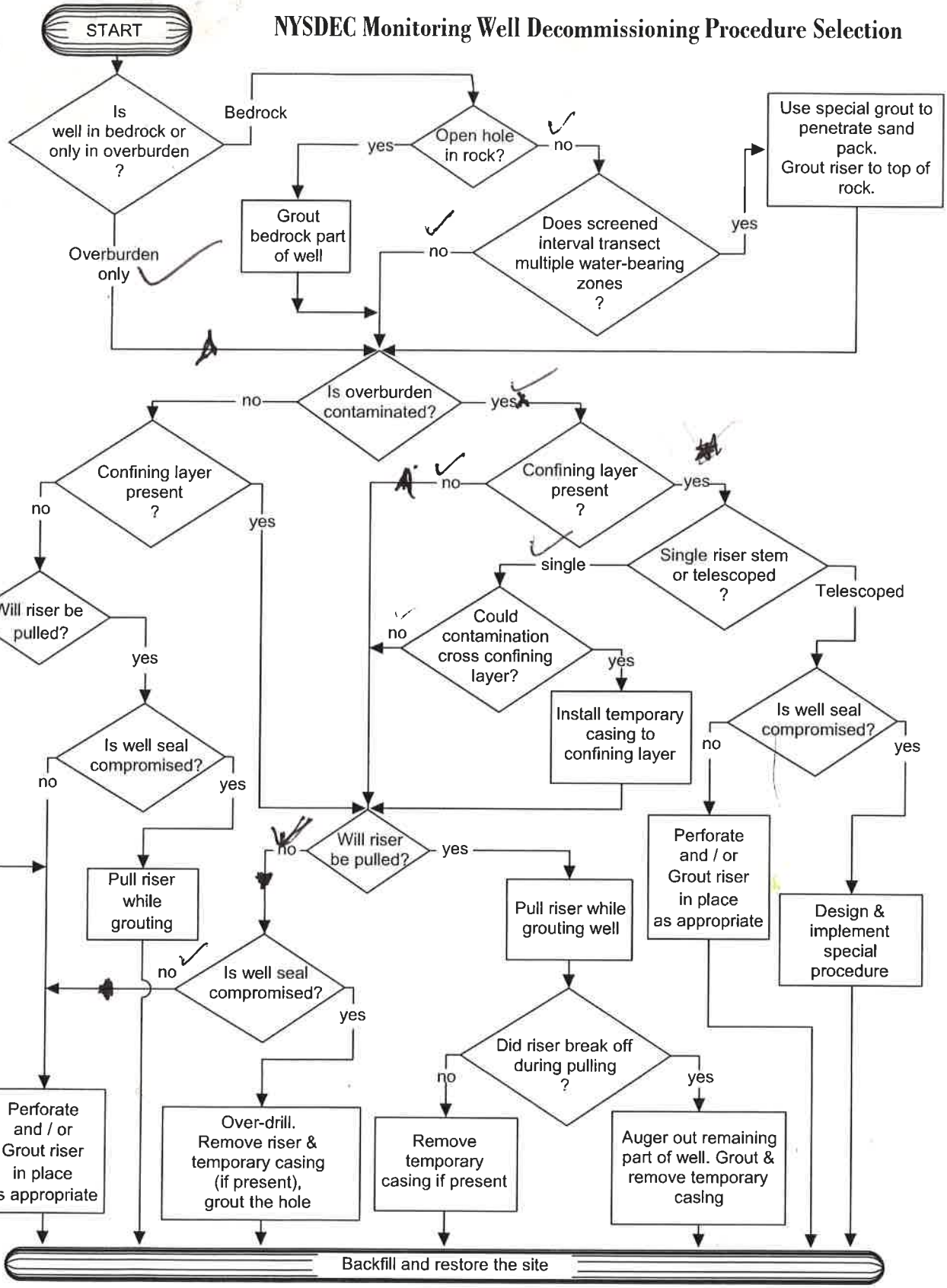


FIGURE 2

FIGURE 3

WELL DECOMMISSIONING RECORD

FIGURE 3

WELL DECOMMISSIONING RECORD

Site Name: Former Speery Remington Site IV	Well I.D.: MW-15S
Site Location: NY Elts J	Driller: Ronald Cespedes
Drilling Co.: Summit [Recon]	Inspector: Adwin Ruiz
	Date: 6.26.2017 / 1230

DECOMMISSIONING DATA
(Fill in all that apply)

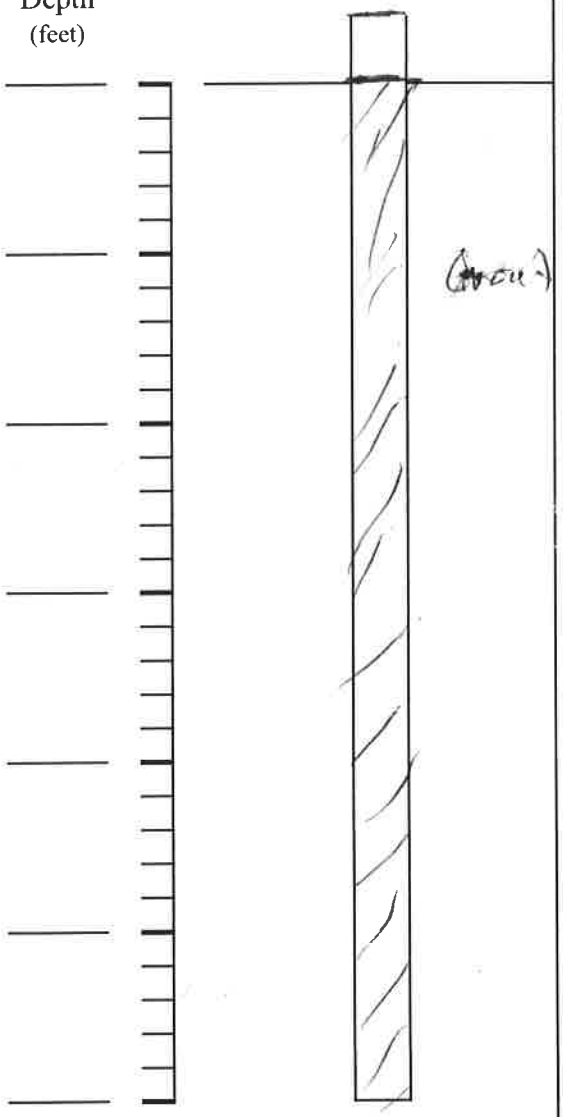
OVERDRILLING NA
Interval Drilled
Drilling Method(s)
Borehole Dia. (in.)
Temporary Casing Installed? (y/n)
Depth temporary casing installed
Casing type/dia. (in.)
Method of installing

CASING PULLING NA
Method employed
Casing retrieved (feet)
Casing type/dia. (in)

CASING PERFORATING NA
Equipment used
Number of perforations/foot
Size of perforations
Interval perforated

GROUTING
Interval grouted (FBLS) 0-19'
of batches prepared 1
For each batch record:
Quantity of water used (gal.) 9
Quantity of cement used (lbs.) 47
Cement type Portland type I
Quantity of bentonite used (lbs.) Bentonite slurry
Quantity of calcium chloride used (lbs.) —
Volume of grout prepared (gal.) 39
Volume of grout used (gal.) ~~39~~ 9.5

WELL SCHEMATIC*



COMMENTS: Grouted in place

* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Drilling Contractor

Department Representative

FIGURE 1

MONITORING WELL FIELD INSPECTION LOG

FIGURE 1

SITE NAME: SITE ID.: former Sperry Remington site SW

INSPECTOR: AR

MONITORING WELL FIELD INSPECTION LOG — DATE/TIME: 6/26/2017 1330

NYSDEC WELL DECOMMISSIONING PROGRAM — WELL ID.: MW-15D

	YES	NO
WELL VISIBLE? (If not, provide directions below)	✓	
WELL I.D. VISIBLE?	✓	
WELL LOCATION MATCH SITE MAP? (if not, sketch actual location on back)	✓	

WELL I.D. AS IT APPEARS ON PROTECTIVE CASING OR WELL:

	YES	NO
SURFACE SEAL PRESENT?	✓	
SURFACE SEAL COMPETENT? (If cracked, heaved etc., describe below)	✓	
PROTECTIVE CASING IN GOOD CONDITION? (If damaged, describe below)	✓	

HEADSPACE READING (ppm) AND INSTRUMENT USED: MiniRAE3000 0.0ppm

TYPE OF PROTECTIVE CASING AND HEIGHT OF STICKUP IN FEET (If applicable): PVC NA

PROTECTIVE CASING MATERIAL TYPE: PVC

MEASURE PROTECTIVE CASING INSIDE DIAMETER (Inches): 2"

	YES	NO
LOCK PRESENT?		✓
LOCK FUNCTIONAL?		✓
DID YOU REPLACE THE LOCK?		✓
IS THERE EVIDENCE THAT THE WELL IS DOUBLE CASED? (If yes,describe below)		✓
WELL MEASURING POINT VISIBLE?		✓

MEASURE WELL DEPTH FROM MEASURING POINT (Feet): No ~76.5

MEASURE DEPTH TO WATER FROM MEASURING POINT (Feet):

MEASURE WELL DIAMETER (Inches): 2"

WELL CASING MATERIAL: PVC

PHYSICAL CONDITION OF VISIBLE WELL CASING: Good

ATTACH ID MARKER (if well ID is confirmed) and IDENTIFY MARKER TYPE: Written on well lid

PROXIMITY TO UNDERGROUND OR OVERHEAD UTILITIES: Not applicable ~10' to electrical

DESCRIBE ACCESS TO WELL: (Include accessibility to truck mounted rig, natural obstructions, overhead power lines, proximity to permanent structures, etc.); ADD SKETCH OF LOCATION ON BACK, IF NECESSARY.

Cleared out Mulch bed

DESCRIBE WELL SETTING (For example, located in a field, in a playground, on pavement, in a garden, etc.) AND ASSESS THE TYPE OF RESTORATION REQUIRED.

Mulch bed S of School building

IDENTIFY ANY NEARBY POTENTIAL SOURCES OF CONTAMINATION, IF PRESENT (e.g. Gas station, salt pile, etc.):

NA

REMARKS:

Hand Mixed grout mixture

FIGURE 2

DECOMMISSIONING PROCEDURE SELECTION

NYSDEC Monitoring Well Decommissioning Procedure Selection

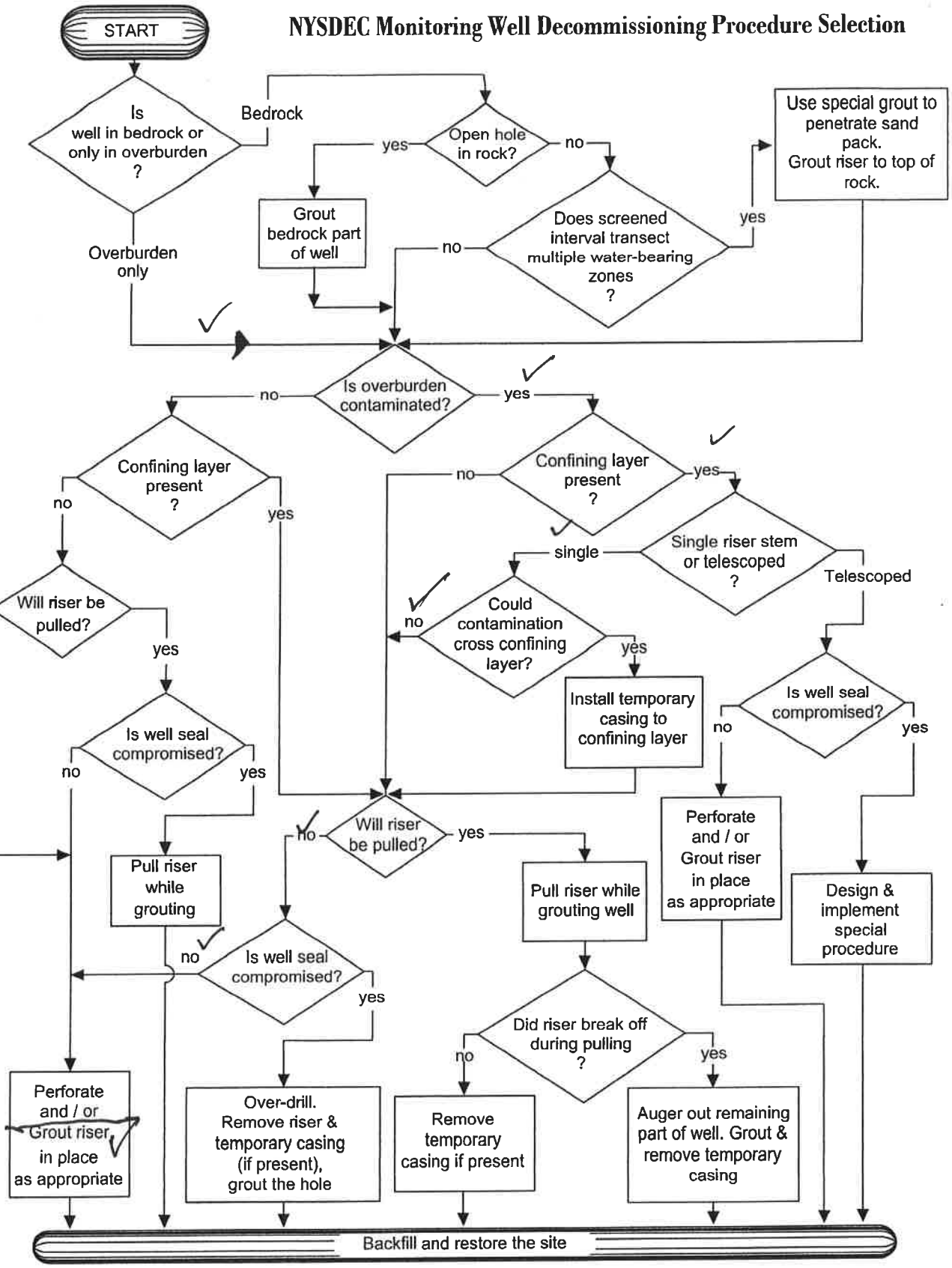


FIGURE 2

FIGURE 3

WELL DECOMMISSIONING RECORD

FIGURE 3

WELL DECOMMISSIONING RECORD

Site Name: Former Sperry Remington Site NY	Well I.D.: MW-15D
Site Location: EHS NY	Driller: Summit (Ronald)
Drilling Co.: Summit	Inspector: AR
	Date: 6.26.2017

DECOMMISSIONING DATA
(Fill in all that apply)

OVERDRILLING NA

Interval Drilled	
Drilling Method(s)	
Borehole Dia. (in.)	
Temporary Casing Installed? (y/n)	
Depth temporary casing installed	
Casing type/dia. (in.)	
Method of installing	

CASING PULLING NA

Method employed	
Casing retrieved (feet)	
Casing type/dia. (in)	

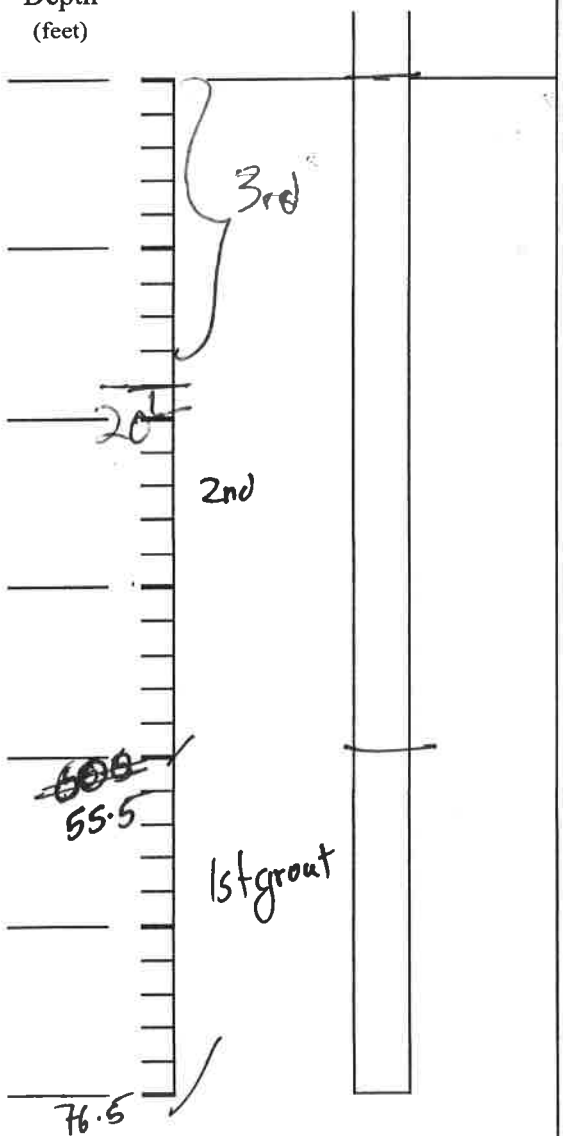
CASING PERFORATING NA

Equipment used	
Number of perforations/foot	
Size of perforations	
Interval perforated	

GROUTING

Interval grouted (FBLS)	0-76.5		
# of batches prepared	1		
For each batch record:			
Quantity of water used (gal.)	3.5	3.5	3.5
Quantity of cement used (lbs.)	40	40	40
Cement type	Portland Type I		
Quantity of bentonite used (lbs.)	#2	#2	#2
Quantity of calcium chloride used (lbs.)	—	—	—
Volume of grout prepared (gal.)	4.5gal	4.5	4.5
Volume of grout used (gal.)	4.5gal	4.5	3-4 gal

WELL SCHEMATIC*



* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

COMMENTS:

Drilling Contractor

Department Representative

Appendix F

As-Built Drawings



NORTH EXCAVATION						
Sr. NO.	Depth Interval (ft bgs)	Boring ID	PCB Concentration (mg/kg)	Recovery (%)	Easting	Northing
SIDEWALL SAMPLES						
NS-1	0-2	SSHS-B285	0.88	75	761866.68	754723.33
NS-2	0-2	SSHS-B399	0.42	100	761874.08	754771.77
NS-3	0-2	SSHS-B401	0.47	100	761852.95	754790.48
NS-4	0-2	SSHS-B398	0.92	100	761826.78	754753.75
NS-5	0-2	SSHS-B400	0.58	84	761806.47	754731.90
NS-6	0-2	SSHS-NE SIDEWALL S1	6.27	100	761740.00	754740.00
NS-7	0-2	SSHS-B779	0.52	100	761647.60	754686.67
NS-8	0-2	SSHS-B780	0.25	100	761658.31	754656.23
NS-9	0-2	SSHS-B72	0.08	100	761648.03	754608.38
NS-10	0-2	SSHS-B821	ND	100	761680.74	754585.49
NS-11	0-2	SSHS-B587	0.10	100	761706.65	754613.21
NS-12	0-2	SSHS-B777	0.30	100	761711.91	754639.02
NS-13	0-2	SSHS-B77	0.16	100	761700.63	754662.41
NS-14	0-2	SSHS-B678	0.55	100	761734.60	754673.11
NS-15	0-2	SSHS-B759	0.45	100	761763.95	754662.84
NS-16	0-2	SSHS-B675	0.14	100	761785.73	754638.62
NS-17	0-2	SSHS-B774	0.36	100	761798.58	754609.76
NS-18	0-2	SSHS-B592	0.53	100	761819.00	754581.38
NS-19	0-2	SSHS-B822	ND	100	761825.68	754550.81
NS-20	0-2	SSHS-B771	0.40	100	761854.19	754536.19
NS-21	0-2	SSHS-B749	0.89	100	761867.58	754550.27
NS-22	0-2	SSHS-B593	0.22	100	761878.62	754516.02
NS-23	0-2	SSHS-B770	0.31	100	761909.68	754496.03
NS-24	0-2	SSHS-B769	0.86	100	761930.90	754531.32
NS-25	0-2	SSHS-B596	0.33	100	761951.34	754530.78
NS-26	0-2	SSHS-B767	0.69	100	761915.34	754593.83
NS-27	0-2	SSHS-B595	0.06	100	761915.17	754619.44
NS-28	0-2	SSHS-B745	0.42	100	761902.04	754641.06
NS-29	0-2	SSHS-B746	0.40	100	761890.01	754675.97
NS-30	0-2	SSHS-B402	0.17	100	761858.79	754690.01
BOTTOM SAMPLES						
NB-1	2-4	SSHS-B762	1.11	42	761860.35	754777.01
NB-2	2-4	SSHS-B664	0.52	50	761841.90	754761.36
NB-3	2-4	SSHS-B755	1.77	46	761826.49	754744.31
NB-4	2-4	SSHS-B580	0.70	42	761812.04	754736.35
NB-5	2-4	SSHS-B760	0.42	66	761785.14	754741.53
NB-6	2-4	SSHS-B577	1.30	46	761773.73	754726.21
NB-7	2-4	SSHS-B753	2.30	58	761741.40	754718.03
NB-8	2-4	SSHS-B586	0.70	80	761714.09	754705.58
NB-9	2-4	SSHS-B763	ND	50	761703.36	754695.13
NB-10	2-4	SSHS-B677	ND	66	761689.71	754692.21
NB-11	2-4	SSHS-B75	0.15	25	761850.61	754720.75
NB-12	2-4	SSHS-B778	0.01	34	761683.63	754645.17
NB-13	2-4	SSHS-B77	ND	38	761700.63	754662.41
NB-14	2-4	SSHS-B76	ND	100	761774.96	754689.66
NB-15	2-4	SSHS-B583	0.12	75	761780.82	754681.23
NB-16	2-4	SSHS-B754	2.32	66	761797.69	754703.28
NB-17	2-4	SSHS-B581	0.13	92	761814.61	754694.18
NB-18	2-4	SSHS-B761	0.01	58	761828.16	754705.60
NB-19	2-4	SSHS-B585	0.23	42	761843.42	754730.32
NB-20	2-4	SSHS-B584	2.74	34	761849.22	754691.82
NB-21	2-4	SSHS-B756	0.40	17	761852.99	754669.65
NB-22	2-4	SSHS-B582	0.41	25	761825.32	754667.27
NB-23	2-4	SSHS-B757	ND	58	761806.84	754672.04
NB-24	2-4	SSHS-B578	1.18	54	761789.25	754660.29
NB-25	2-4	SSHS-B758	1.06	84	761810.19	754633.43
NB-26	2-4	SSHS-B579	ND	17	761843.55	754647.65
NB-27	2-4	SSHS-B752	0.01	58	761873.15	754621.76
NB-28	2-4	SSHS-B765	ND	54	761892.11	754606.68
NB-29	2-4	SSHS-B766	0.39	50	761854.24	754595.82
NB-30	2-4	SSHS-B773	0.11	62	761827.66	754597.33
NB-31	2-4	SSHS-B772	0.19	79	761846.58	754569.03
NB-32	2-4	SSHS-B748	0.56	66	761881.47	754579.12
NB-33	2-4	SSHS-B768	0.29	46	761933.22	754563.75
NB-34	2-4	SSHS-B747	0.39	50	761906.67	754566.81
NB-35	2-4	SSHS-B594	0.72	92	761890.11	754553.78
NB-36	2-4	SSHS-B750	0.36	75	761894.51	754533.04

LEGEND

- MANHOLE
- CATCH BASIN
- CULVERT PIPE
- CHAIN LINK FENCE
- WOODEN FENCE
- PROPERTY LINE
- EXISTING ELEVATION CONTOUR
- EDGE OF WATER
- EDGE OF WOODS OR BRUSH
- SANITARY SEWER
- STORM SEWER
- GAS PIPELINE
- WATER PIPELINE
- LIMIT OF EXCAVATION
- SUBGRADE ELEVATION CONTOUR
- DEPTH MEASUREMENT (BY SURVEYOR)
- SIDEWALL SAMPLE
- BOTTOM SAMPLE
- POST-EXCAVATION SIDEWALL SAMPLE

NOTES:

1. BASEMAP TOPOGRAPHY IS FROM A TOPOGRAPHIC SURVEY BY HUNT ENGINEERS, ARCHITECTS, AND SURVEYORS IN SEPTEMBER 2016. VERTICAL CONTROL IS REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88/GEOID 12A). HORIZONTAL CONTROL IS REFERENCED TO THE NORTH AMERICAN DATUM OF 1983 (NAD 83/NA 2011).
2. SUBGRADE ELEVATIONS AND EXCAVATION DEPTHS ARE FROM SURVEY BY HUNT ENGINEERS, ARCHITECTS, AND SURVEYORS ON 10 JULY 2017.

0 20' 40'
SCALE IN FEET

AS-BUILT DRAWING

REV	DATE	DESCRIPTION	DRN	APP
2	JUN 2026	RESPONSE TO AGENCY COMMENTS	BEG	AK
1	FEB 2019	RESPONSE TO AGENCY COMMENTS	TSJ	AK

Beech and Bonaparte engineering p.c.
an affiliate of Geosyntec Consultants

UNISYS

TITLE: NORTH EXCAVATION - SUBGRADE

PROJECT: INTERIM REMEDIATION MEASURE

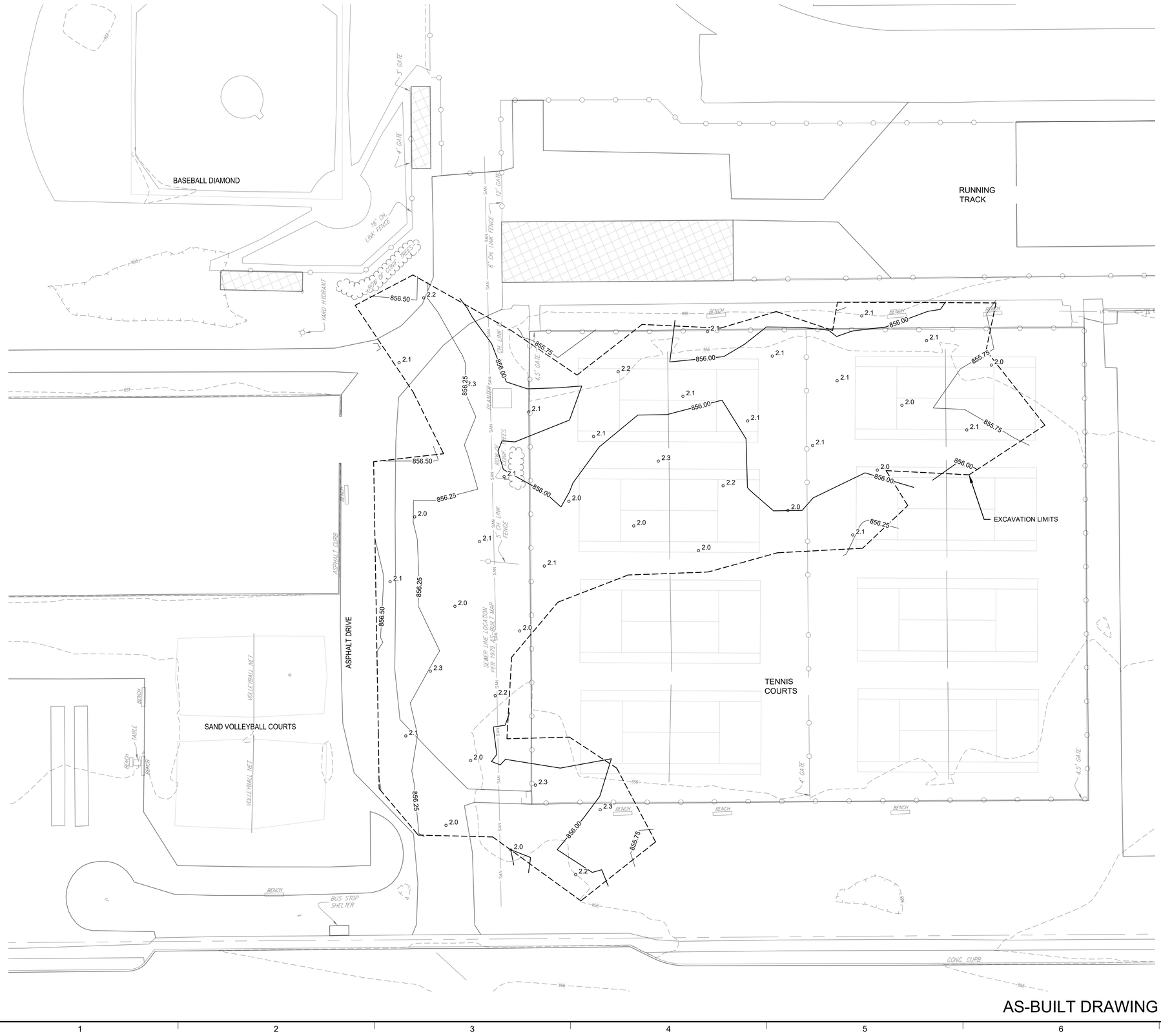
SITE: FORMER SPERRY-REMINGTON SITE - NORTH PORTION
ELMIRA, NEW YORK

SIGNATURE
6/17/2026
DATE

STATE OF NEW YORK — JOHN P. KRASNOSLOW — 099954-1 — LICENSED PROFESSIONAL ENGINEER

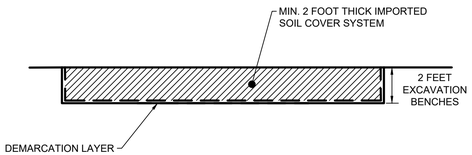
DESIGN BY:	AK	DATE:	APRIL 2018
DRAWN BY:	JWO	PROJECT NO.:	MN0832D
CHECKED BY:	TBR	FILE:	MN0832D-001
REVIEWED BY:	PLB	DRAWING NO.:	1 OF 6
APPROVED BY:	AK		

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LEGEND

- MANHOLE
- CATCH BASIN
- CULVERT PIPE
- CHAIN LINK FENCE
- WOODEN FENCE
- PROPERTY LINE
- EXISTING ELEVATION CONTOUR
- EDGE OF WATER
- EDGE OF WOODS OR BRUSH
- SANITARY SEWER
- STORM SEWER
- GAS PIPELINE
- WATER PIPELINE
- LIMIT OF EXCAVATION
- 855.50 FINAL GRADE ELEVATION CONTOUR
- 2.2 THICKNESS MEASUREMENT (BY SURVEYOR)



1 / - SECTION
AS-BUILT SOIL COVER SYSTEM

NOTES:

1. BASEMAP TOPOGRAPHY IS FROM A TOPOGRAPHIC SURVEY BY HUNT ENGINEERS, ARCHTECTS, AND SURVEYORS IN SEPTEMBER 2016. VERTICAL CONTROL IS REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88/GEOID 12A). HORIZONTAL CONTROL IS REFERENCED TO THE NORTH AMERICAN DATUM OF 1983 (NAD 83/NA 2011).
2. FINAL GRADE ELEVATIONS AND BACKFILL THICKNESSES ARE FROM SURVEY BY HUNT ENGINEERS, ARCHITECTS, AND SURVEYORS ON 21 JULY 2017.

0 20' 40'
SCALE IN FEET

REV	DATE	DESCRIPTION	DRN	APP
2	JUN 2026	RESPONSE TO AGENCY COMMENTS	BEG	AK
1	FEB 2019	RESPONSE TO AGENCY COMMENTS	TSJ	AK

Beech and Bonaparte engineering p.c.
an affiliate of Geosyntec Consultants

UNISYS

TITLE: NORTH EXCAVATION - FINAL GRADE

PROJECT: INTERIM REMEDIATION MEASURE

SITE: FORMER SPERRY-REMINGTON SITE - NORTH PORTION
ELMIRA, NEW YORK

DESIGN BY:	AK	DATE:	APRIL 2018
DRAWN BY:	JWO	PROJECT NO.:	MN0832D
CHECKED BY:	TBR	FILE:	MN0832D-002
REVIEWED BY:	PLB	DRAWING NO.:	2 OF 6
APPROVED BY:	AK		

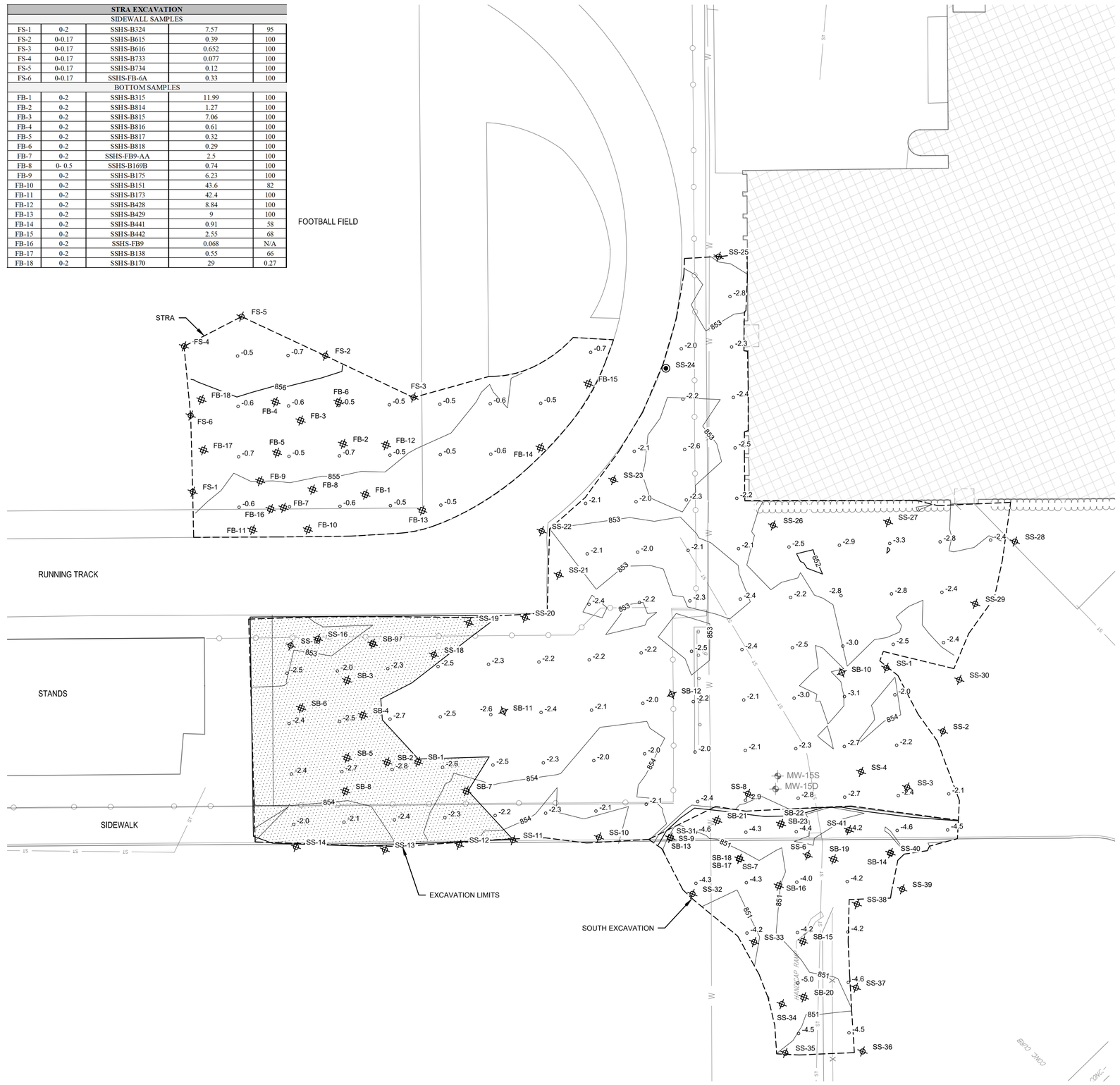
SIGNATURE
6/17/2026
DATE

STATE OF NEW YORK — JOHN A. KRAMPLEMAN — 099954 — LICENSED PROFESSIONAL ENGINEER

AS-BUILT DRAWING

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STRA EXCAVATION				
SIDEWALL SAMPLES				
FS-1	0-2	SSHS-B324	7.57	95
FS-2	0-0.17	SSHS-B615	0.39	100
FS-3	0-0.17	SSHS-B616	0.652	100
FS-4	0-0.17	SSHS-B733	0.077	100
FS-5	0-0.17	SSHS-B734	0.12	100
FS-6	0-0.17	SSHS-FB-6A	0.33	100
BOTTOM SAMPLES				
FB-1	0-2	SSHS-B315	11.99	100
FB-2	0-2	SSHS-B814	1.27	100
FB-3	0-2	SSHS-B815	7.06	100
FB-4	0-2	SSHS-B816	0.61	100
FB-5	0-2	SSHS-B817	0.32	100
FB-6	0-2	SSHS-B818	0.29	100
FB-7	0-2	SSHS-FB9-AA	2.5	100
FB-8	0- 0.5	SSHS-B169B	0.74	100
FB-9	0-2	SSHS-B175	6.23	100
FB-10	0-2	SSHS-B151	43.6	82
FB-11	0-2	SSHS-B173	42.4	100
FB-12	0-2	SSHS-B428	8.84	100
FB-13	0-2	SSHS-B429	9	100
FB-14	0-2	SSHS-B441	0.91	58
FB-15	0-2	SSHS-B442	2.55	68
FB-16	0-2	SSHS-FB9	0.068	N/A
FB-17	0-2	SSHS-B138	0.55	66
FB-18	0-2	SSHS-B170	29	0.27



SOUTH EXCAVATION						
Sr. NO.	Depth Interval (ft bgs)	Boring ID	PCB Concentration (mg/kg)	Recovery (%)	Easting	Northing
SIDEWALL SAMPLES						
SS-1	0-2	SSHS-B15-B	6.3	100	762179.94	754124.12
	0-2	SSHS-B15-B	0.14	100		
SS-2	0-2	SSHS-B247	0.06	100	762164.3877	754094.22
SS-3	*0-2*	*SSHS-B249*	*0.04*	*100*	*762138.616*	*754099.6*
SS-4	*0-2*	*SSHS-B253*	*0.18*	*100*	*762137.871*	*754118.9*
SS-5	0-2	SSHS-B634	0.03	100	762111.904	754096.55
SS-6	*0-2*	*SSHS-B827*	*ND*	*88*	*762099.437*	*754127*
SS-7	*0-2*	*SSHS-B632C*	*0.02*	*100*	*762088.562*	*754151.7*
SS-8	*0-2*	*SSHS-B464*	*0.05*	*100*	*762113.809*	*754157.7*
SS-9	0-2	SSHS-B329	0.25	100	762086.6525	754180.3
SS-10	0-2	SSHS-B473	0.42	100	762076.7586	754206.83
SS-11	0-2	SSHS-B334	0.78	100	762063.6164	754238.32
SS-12	0-2	SSHS-B455	ND	100	762054.3074	754257.64
SS-13	0-2	SSHS-B456	ND	100	762042.0153	754284.47
SS-14	0-2	SSHS-B457	0.04	100	762030.576	754317.83
SS-15	0-2	SSHS-B454	3.63	96	762104.4687	754348.12
SS-16	0-2	SSHS-B332	0.63	100	762110.8176	754338.99
SS-17	0-2	SSHS-B624	5.25	100	762116.6718	754317.95
SS-18	0-2	SSHS-B344	4.36	100	762121.2023	754293.73
SS-19	0-2	SSHS-B460	13.81	75	762137.9052	754285.22
SS-20	0-2	SSHS-B327	1.95	100	762147.7364	754265.12
SS-21	0-2	SSHS-B461	10.90	100	762168.3933	754258.66
SS-22	0-2	SSHS-B620	5.46	100	762182.2075	754271.15
SS-23	0-2	SSHS-B444	6.63	88	762211.2108	754251.77
SS-24	0-2	SSHS-SE SIDEWALL 1	0.05	100	762260	754248
SS-25	0-2	SSHS-B619	3.36	100	762308.8275	754244.14
SS-26	0-2	SSHS-B477	0.53	100	762216.8522	754186.16
SS-27	0-2	SSHS-B744	0.48	86	762234.3045	754144.02
SS-28	0-2	SSHS-B688	0.20	100	762244.8774	754094.25
SS-29	0-2	SSHS-B648	0.43	88	762216.2211	754100.21
SS-30	0-2	SSHS-B243	0.64	100	762185.8727	754095.43
SS-31	2-4	SSHS-B329	0.01	66	762086.6525	754180.3
SS-32	2-4	SSHS-B704	0.66	86	762068.895	754164.22
SS-33	2-4	SSHS-B696	2.10	79	762059.74	754134.59
SS-34	2-4	SSHS-B783	0.29	42	762040.6049	754115.61
SS-35	2-4	SSHS-B722	0.05	50	762023.0343	754107.42
SS-36	2-4	SSHS-B721	0.57	71	762034.44	754079
SS-37	2-4	SSHS-B784	0.11	42	762057.14	754090.43
SS-38	2-4	SSHS-B799	0.11	54	762088.26	754101.83
SS-39	2-4	SSHS-B681	0.26	79	762100.18	754087.12
SS-40	2-4	SSHS-B634	0.27	58	762111.904	754096.55
SS-41	2-4	SSHS-B798A	0.22	92	762114.5952	754115.22
BOTTOM SAMPLES						
SB-1	2-4	SSHS-B279	8.00	54	762079.2603	754284.57
SB-2	2-4	SSHS-B281	9.35	38	762074.7638	754295.89
SB-3	2-4	SSHS-B282	2.64	50	762099.4919	754322.29
SB-4	2-4	SSHS-B283	1.10	75	762088.7929	754311.5
SB-5	2-4	SSHS-B284	3.81	54	762070.7539	754311.42
SB-6	2-4	SSHS-B331	0.61	34	762082.7772	754335.41
SB-7	2-4	SSHS-B333	4.78	29	762075.1991	754262.51
SB-8	2-4	SSHS-B335	7.16	29	762058.1906	754307.32
SB-9	2-4	SSHS-B624	2.38	58	762116.6718	754317.95
SB-10	2-4	SSHS-SE BTM WALL 1	27.42	100	762172	754140
SB-11	2-4	SSHS-SE BTM WALL 2	56.50	100	762110	754260
SB-12	2-4	SSHS-SE BTM WALL 3	5.19	100	762140	754200
SB-13	4-6	SSHS-B329	0.06	100	762086.6525	754180.3
SB-14	4-6	SSHS-B634	0.0021	100	762111.904	754096.55
SB-15	4-6	SSHS-B679	1.79	100	762066.874	754116.57
SB-16	4-6	SSHS-B680	0.13	100	762084.101	754133.36
SB-17	4-6	SSHS-B632	ND	79	762088.5621	754151.72
SB-18	4-6	SSHS-B632A	ND	100	762088.5621	754151.72
SB-19	4-6	SSHS-B633	4.60	100	762101.6237	754116.74
SB-20	4-6	SSHS-B697	4.54	100	762046.285	754108.37
SB-21	4-6	SSHS-B803	3.92	100	762099.6169	754165.42
SB-22	4-6	SSHS-B804	0.23	96	762107.3177	754141.23
SB-23	4-6	SSHS-B804A	0.13	66	762107.3177	754141.23

NOTE:

SIDEWALL SAMPLES USED TO DELINEATE 0-2 FT EXCAVATION BUT REMOVED DURING COMPLETION OF THE 2-4 FT EXCAVATION ARE SHOWN IN ITALICS.

LEGEND

- MANHOLE
- CATCH BASIN
- CULVERT PIPE
- CHAIN LINK FENCE
- WOODEN FENCE
- PROPERTY LINE
- EXISTING ELEVATION CONTOUR
- EDGE OF WATER
- EDGE OF WOODS OR BRUSH
- SANITARY SEWER
- STORM SEWER
- GAS PIPELINE
- WATER PIPELINE
- LIMIT OF EXCAVATION
- SUBGRADE ELEVATION CONTOUR
- DEPTH MEASUREMENT (BY SURVEYOR)
- SIDEWALL SAMPLE
- BOTTOM SAMPLE
- POST-EXCAVATION SIDEWALL SAMPLE
- POST-EXCAVATION BOTTOM SAMPLE
- MONITORING WELL (DECOMMISSIONED)
- 0-2 FT EXCAVATION BOTTOM AREA

NOTES:

1. BASEMAP TOPOGRAPHY IS FROM A TOPOGRAPHIC SURVEY BY HUNT ENGINEERS, ARCHITECTS, AND SURVEYORS IN SEPTEMBER 2016. VERTICAL CONTROL IS REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88/GEOID 12A). HORIZONTAL CONTROL IS REFERENCED TO THE NORTH AMERICAN DATUM OF 1983 (NAD 83/NA 2011).
2. SOUTH EXCAVATION SUBGRADE ELEVATIONS AND EXCAVATION DEPTHS ARE FROM SURVEY BY HUNT ENGINEERS, ARCHITECTS, AND SURVEYORS ON 27 JULY 2017.
3. STRA SUBGRADE ELEVATIONS AND EXCAVATION DEPTHS ARE FROM SURVEY BY HUNT ENGINEERS, ARCHITECTS, AND SURVEYORS ON 17 AUGUST 2017.
4. GEOTEXTILE FABRIC AND ORANGE DEMARCATION NETTING WAS PLACED AT THE BASE OF THE EXCAVATION PRIOR TO BACKFILLING. SEE SECTION ON SHEET 5.
5. PCB-IMPACTED SOIL REMAINING BENEATH THE 0 TO 2 FT EXCAVATION WILL BE ADDRESSED IN THE FUTURE AS PART OF THE REMEDIAL PROGRAM.

0 20' 40'
SCALE IN FEET

AS-BUILT DRAWING

REV	DATE	DESCRIPTION	DRN	APP
2	JUN 2026	RESPONSE TO AGENCY COMMENTS	BEG	AK
1	FEB 2019	RESPONSE TO AGENCY COMMENTS	TSJ	AK

Beech and Bonaparte engineering p.c.
an affiliate of Geosyntec Consultants

UNISYS

TITLE: SOUTH EXCAVATION - SUBGRADE

PROJECT: INTERIM REMEDIATION MEASURE

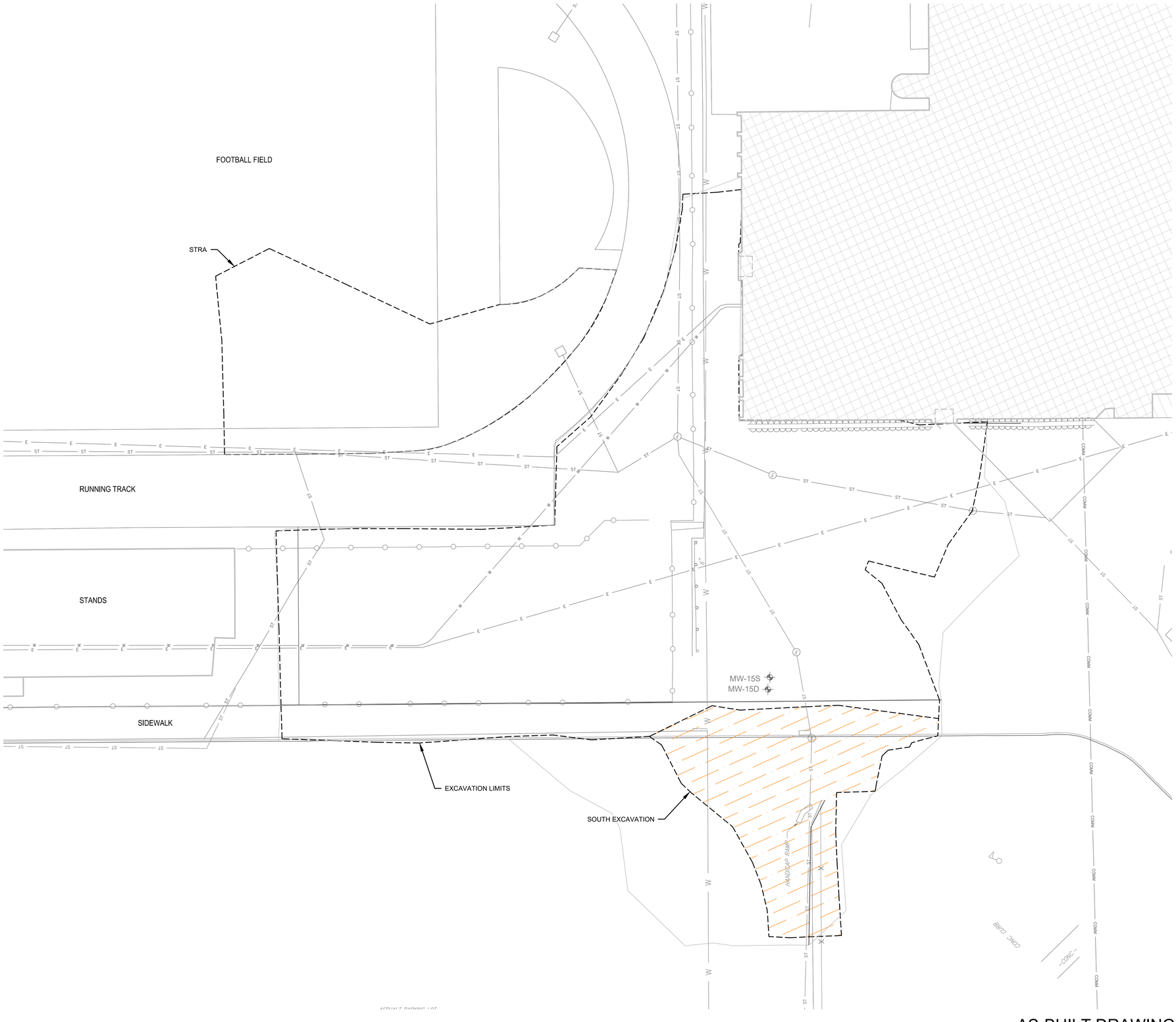
SITE: FORMER SPERRY-REMINGTON SITE - NORTH PORTION
ELMIRA, NEW YORK

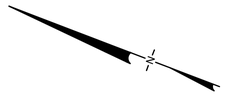
DESIGN BY:	AK	DATE:	APRIL 2018
DRAWN BY:	JWO	PROJECT NO.:	MN0832D
CHECKED BY:	TBR	FILE:	MN0832D-003
REVIEWED BY:	PLB	DRAWING NO.:	
APPROVED BY:	AK		3 OF 6

SIGNATURE
6/17/2026
DATE

STATE OF NEW YORK — JOHN R. KRASNOVSKAS — 089954 — LICENSED PROFESSIONAL ENGINEER

\\Columbia-01\Data\cad\Unisys - Elmira NY (MN0832D)_ELMIRA NORTH ASBUILT\DWGS\MN0832D-003.dwg
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TR1





LEGEND

- MANHOLE
- CATCH BASIN
- CULVERT PIPE
- CHAIN LINK FENCE
- WOODEN FENCE
- PROPERTY LINE
- EDGE OF WATER
- EDGE OF WOODS OR BRUSH
- SANITARY SEWER
- STORM SEWER
- GAS PIPELINE
- WATER PIPELINE
- LIMIT OF EXCAVATION
- EXTENT OF REUSE SOILS
- MONITORING WELL (DECOMMISSIONED)

NOTES:

1. BASEMAP TOPOGRAPHY IS FROM A TOPOGRAPHIC SURVEY BY HUNT ENGINEERS, ARCHITECTS, AND SURVEYORS IN SEPTEMBER 2016. VERTICAL CONTROL IS REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88/GEOID 12A). HORIZONTAL CONTROL IS REFERENCED TO THE NORTH AMERICAN DATUM OF 1983 (NAD 83/NA 2011).
2. SOUTH EXCAVATION LIMIT OF EXCAVATION IS FROM SURVEY BY HUNT ENGINEERS, ARCHITECTS, AND SURVEYORS ON 27 JULY 2017.
3. APPROVED REUSE SOIL WAS PLACED IN THE 2-4 FT EXCAVATION TO A DEPTH OF TWO FEET BELOW FINAL GRADE.
4. TOTAL REUSE MATERIAL VOLUME IS APPROXIMATELY 500 CUBIC YARDS.
5. REUSE VOLUME AND THICKNESS ARE APPROXIMATE BECUASE THE TOP OF REUSE WAS NOT SURVEYED.
6. ORANGE DEMARCATION NETTING WAS PLACED ABOVE THE REUSE SOIL PRIOR TO PLACEMENT OF IMPORTED STRUCTURAL FILL. SEE SECTION ON SHEET 5.

0 20' 40'
SCALE IN FEET

REV	DATE	DESCRIPTION	DRN	APP
2	JUN 2026	RESPONSE TO AGENCY COMMENTS	BEG	AK
1	FEB 2019	RESPONSE TO AGENCY COMMENTS	TSJ	AK

Beech and Bonaparte engineering p.c.
an affiliate of Geosyntec Consultants

UNISYS

TITLE: SOUTH EXCAVATION - EXTENT OF REUSE SOILS

PROJECT: INTERIM REMEDIATION MEASURE

SITE: FORMER SPERRY-REMINGTON SITE - NORTH PORTION
ELMIRA, NEW YORK

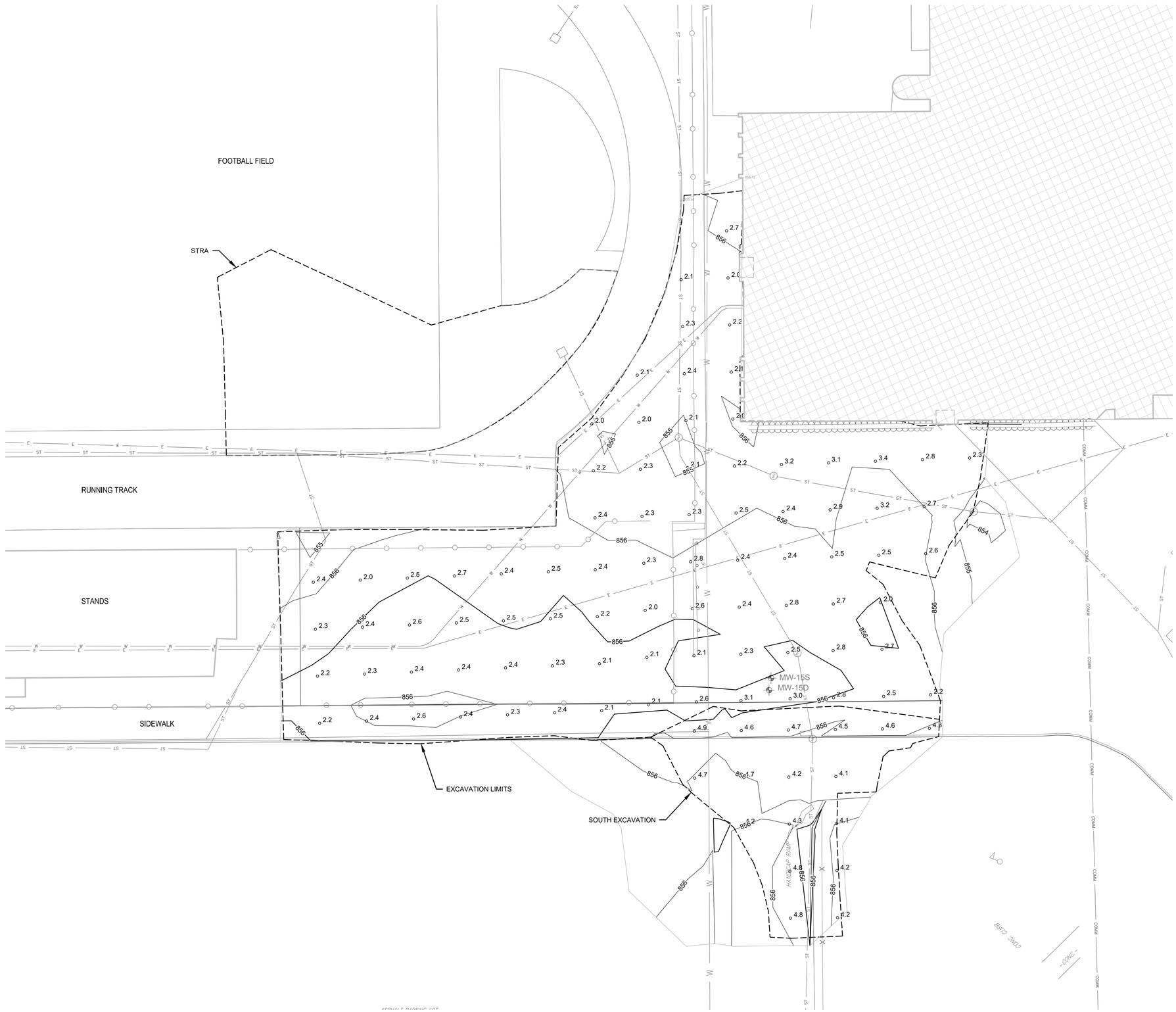
DESIGN BY:	AK	DATE:	APRIL 2018
DRAWN BY:	JWO	PROJECT NO.:	MN0832D
CHECKED BY:	TBR	FILE:	MN0832D-003A
REVIEWED BY:	PLB	DRAWING NO.:	4 OF 6
APPROVED BY:	AK		

SIGNATURE
6/17/2026
DATE

JASON A. KRASNOPOLSKY — 089954 — STATE OF NEW YORK — LICENSED PROFESSIONAL ENGINEER

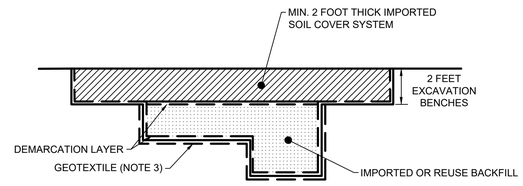
AS-BUILT DRAWING

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LEGEND

- MANHOLE
- CATCH BASIN
- CULVERT PIPE
- CHAIN LINK FENCE
- WOODEN FENCE
- PROPERTY LINE
- EXISTING ELEVATION CONTOUR
- EDGE OF WATER
- EDGE OF WOODS OR BRUSH
- SANITARY SEWER
- STORM SEWER
- GAS PIPELINE
- WATER PIPELINE
- LIMIT OF EXCAVATION
- 855.50 FINAL GRADE ELEVATION CONTOUR
- 2.2 THICKNESS MEASUREMENT (BY SURVEYOR)
- MONITORING WELL (DECOMMISSIONED)



1 - SECTION
AS-BUILT SOIL COVER SYSTEM

NOTES:

1. BASEMAP TOPOGRAPHY IS FROM A TOPOGRAPHIC SURVEY BY HUNT ENGINEERS, ARCHITECTS, AND SURVEYORS IN SEPTEMBER 2016. VERTICAL CONTROL IS REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88/GEOID 12A). HORIZONTAL CONTROL IS REFERENCED TO THE NORTH AMERICAN DATUM OF 1983 (NAD 83/NA 2011).
2. FINAL GRADE ELEVATIONS AND BACKFILL THICKNESSES FOR THE SOUTH EXCAVATION ARE FROM SURVEY BY HUNT ENGINEERS, ARCHITECTS, AND SURVEYORS ON 25 AUGUST 2017.
3. GEOTEXTILE FABRIC WAS PLACED AT THE BOTTOM OF THE EXCAVATION WHERE DESIGN DEPTH WAS NOT ACHIEVED.

0 20' 40'
SCALE IN FEET

AS-BUILT DRAWING

REV	DATE	DESCRIPTION	DRN	APP
2	JUN 2026	RESPONSE TO AGENCY COMMENTS	BEG	AK
1	FEB 2019	RESPONSE TO AGENCY COMMENTS	TSJ	AK

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UNISYS

TITLE: SOUTH EXCAVATION - FINISH GRADE

PROJECT: INTERIM REMEDIATION MEASURE

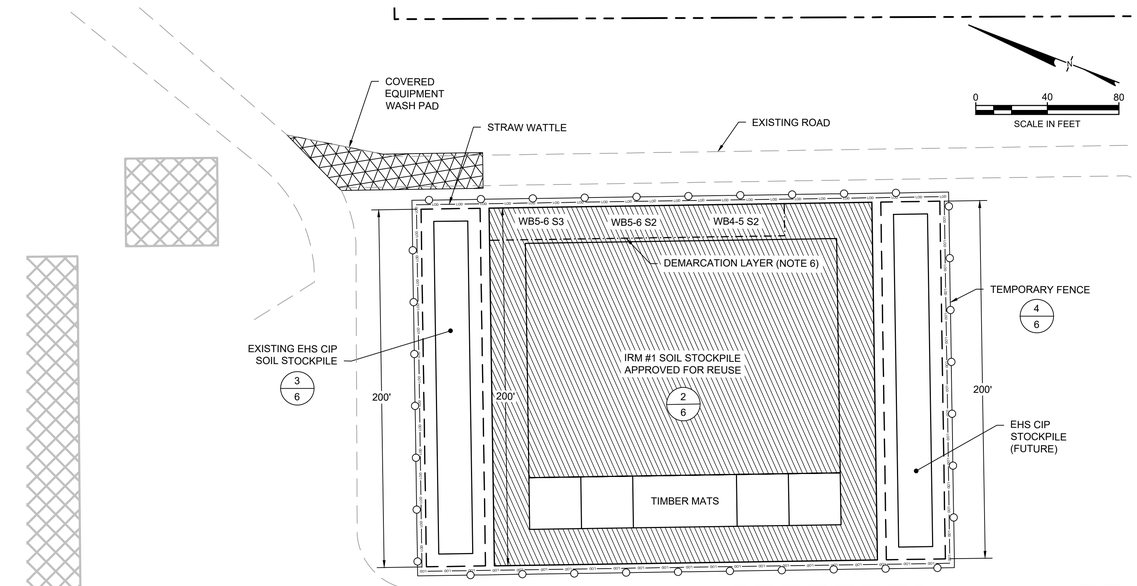
SITE: FORMER SPERRY-REMINGTON SITE - NORTH PORTION
ELMIRA, NEW YORK

DESIGN BY:	AK	DATE:	APRIL 2018
DRAWN BY:	JWO	PROJECT NO.:	MN0832D
CHECKED BY:	TBR	FILE:	MN0832D-004
REVIEWED BY:	PLB	DRAWING NO.:	5 OF 6
APPROVED BY:	AK		

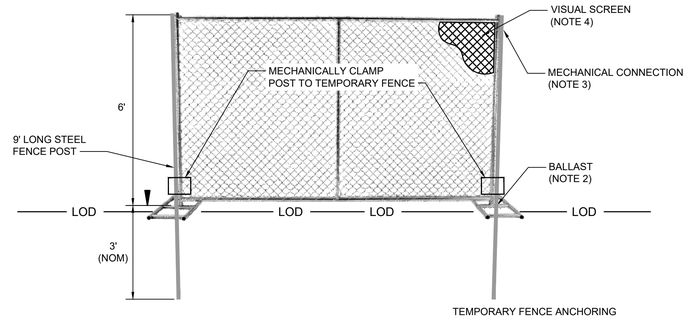
SIGNATURE
6/17/2026
DATE

STATE OF NEW YORK — JOHN E. KRASNOFF, LS — 088954-1 — LICENSED PROFESSIONAL ENGINEER

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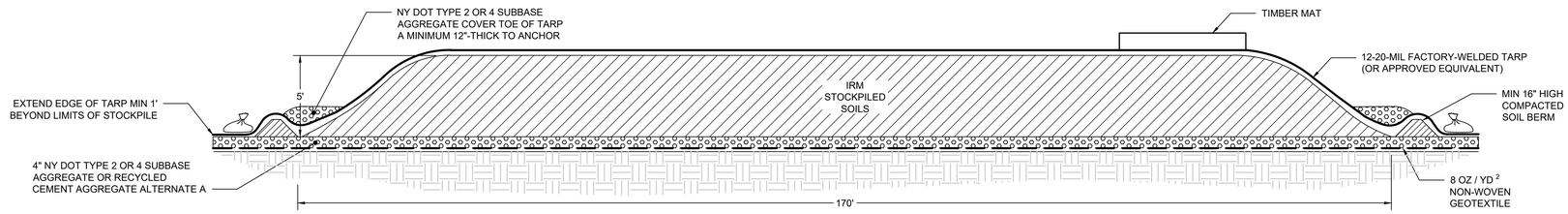
1/6 DETAIL
EXISTING SOIL STOCKPILE AREA
SCALE: 1" = 40'



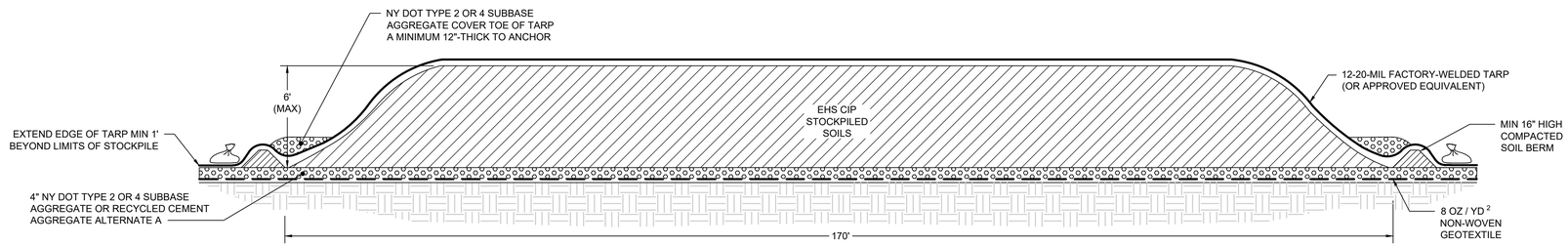
NOTES:

1. 6-FT TALL, PORTABLE CHAIN-LINK FENCE PANELS, SET ON THE EXISTING GROUND SURFACE, COINCIDENT WITH THE LIMIT OF CONSTRUCTION DISTURBANCE.
2. TEMPORARY BALLAST REPLACED WITH DRIVEN POSTS AS SHOWN, TO PREVENT OVERTURNING OF THE FENCE PANELS.
3. FLEXIBLE, MECHANICAL CONNECTION, BETWEEN FENCE PANELS.
4. FULL-COVERAGE VISUAL SCREENING OVER EACH ENTIRE FENCE PANEL.

4/6 DETAIL
TEMPORARY FENCE
SCALE: NOT TO SCALE
XREF: MN0832DX050



2/6 DETAIL
EXISTING IRM SOIL STOCKPILE (FRONT VIEW)
SCALE: NOT TO SCALE
XREF: MN0832DX051



3/6 DETAIL
EXISTING EHS CIP SOIL STOCKPILE (FRONT VIEW)
SCALE: NOT TO SCALE
XREF: MN0832DX052

AS-BUILT DRAWING

REV	DATE	DESCRIPTION	DRN	APP
2	JUN 2026	RESPONSE TO AGENCY COMMENTS	BEG	AK
1	FEB 2019	RESPONSE TO AGENCY COMMENTS	TSJ	AK

Beech and Bonaparte engineering p.c.
an affiliate of Geosyntec Consultants

UNISYS

TITLE: MATERIAL STAGING AREA

PROJECT: INTERIM REMEDIATION MEASURE

SITE: FORMER SPERRY-REMINGTON SITE - NORTH PORTION
ELMIRA, NEW YORK

SIGNATURE
6/17/2026
DATE

JOHN A. KINDERWATER — 088954 — LICENSED PROFESSIONAL ENGINEER — STATE OF NEW YORK

DESIGN BY:	AK	DATE:	APRIL 2018
DRAWN BY:	JWO	PROJECT NO.:	MN0832D
CHECKED BY:	TBR	FILE:	MN0832D-005
REVIEWED BY:	PLB	DRAWING NO.:	
APPROVED BY:	AK		6 OF 6

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Appendix G

Correspondence with Disposal Facility and Acceptance Letters

Aron Krasnopoler

From: Karen Flanders <Karen.Flanders@casella.com>
Sent: Wednesday, August 9, 2017 4:47 AM
To: John Geary; Mike Relf
Cc: Andrea Kuntz; Ann Santell; Cameron Pike; Gary Mahoney; Joshua Stern; Kimberly Bliven; Larry Shilling; Lisa Garza; Michael Stehman; Nancy Fera; Raymond Duerr; Roxanne Ruffalo; Scott Sampson; Sharon Perry; Special Waste
Subject: [External] Correction: #7682-Ontario; Unisys (former Sperry Remington), 777 South Main St., Elmira, NY - PCB Contaminated Soil for Disposal

Correction: Chemung County

From: Karen Flanders
Sent: Wednesday, August 9, 2017 12:35 AM
To: 'John Geary' <john.geary@reconservices.com>; 'Mike Relf' <miker@riccellienterprises.com>
Cc: Andrea Kuntz <Andrea.Kuntz@casella.com>; Ann Santell <Ann.Santell@casella.com>; Cameron Pike <cameron.pike@CASELLA.COM>; Gary Mahoney <Gary.Mahoney@casella.com>; Joshua Stern <joshua.stern@casella.com>; Kimberly Bliven <Kimberly.Bliven@casella.com>; Larry Shilling <Larry.Shilling@casella.com>; Lisa Garza <Lisa.Garza@casella.com>; Michael Stehman <michael.stehman@casella.com>; Nancy Fera <Nancy.Fera@casella.com>; Raymond Duerr <Raymond.Duerr@casella.com>; 'Roxanne Ruffalo' <Roxanne.Ruffalo@casella.com>; Scott Sampson <Scott.Sampson@casella.com>; Sharon Perry <Sharon.Perry@casella.com>; Special Waste <Special.Waste@casella.com>
Subject: #7682-Ontario; Unisys (former Sperry Remington), 777 South Main St., Elmira, NY - PCB Contaminated Soil for Disposal

Note to Customer: The following Windrow Stockpile Sections are included in this approval for disposal (see attached map). Please include the Windrow and Section # on each Manifest. Please contact Ontario County Landfill at 585-526-4420 to notify the site for delivery.

100 CY or 300 tons Windrow #1 – Section 5 ONLY	500-600 CY, or 900 tons Windrow #4 – Section(s) 1 – 5	500-600 CY, or 900 tons Windrow #7 – Section(s) 1 – 5
500-600 CY, or 900 tons Windrow #2 – Section(s) 1 – 5	500-600 CY, or 900 tons Windrow #5 – Section(s) 1 – 5	300 CY or 500 tons Windrow #8 – Section(s) 1, 2, 3 ONLY
500-600 CY, or 900 tons Windrow #3 – Section(s) 1 – 5	500-600 CY, or 900 tons Windrow #6 – Section(s) 1 - 5	300 CY or 500 tons Windrow #9 – Section(s) 2, 3, 4 ONLY

**Laboratory Reports are on file at Special Waste Dept.

Profile #7682 – Approval for DISPOSAL (One Time Event)

Ontario

Generator: Unisys (former Sperry Remington)
777 South Main St.
Elmira, NY 14904

Hauler/Carrier: Riccelli Enterprises

Customer:	Remedial Construction Services, Inc
Material/Description:	PCB Contaminated Soil from former Sperry Remington site
Classification:	Industrial/Disposal
Quantity:	6,800 Tons
County:	**Chemung** (NY)
Approval:	Karen Flanders, 08/08/2017
Expires:	11/08/2017
Term:	Place Inactive Upon Expiration

- **Pricing to be confirmed by Ray Duerr/Scott Sampson – Customer/Hauler is Copied**
- **NYSDEC Approval Not Required**
- **A NYS Part 364 Hauling Permit is required for the collection, transport, and delivery of regulated waste, originating or terminating at a location within NY State**
- **Manifest is required for delivery; must include generator information, Casella Waste Profile Number**

Special Waste Department
Casella Waste Systems, Inc.

25 Greens Hill Lane, Suite 14, Rutland, VT 05701
p. 802-779-0226 l p. 1.855.379.2783 | f. 802.419.3736

Learn more at casella.com

CONFIDENTIALITY NOTICE The information contained in this communication is confidential, may constitute inside information, may be attorney-client privileged and is intended only for the use of the named recipient. If the reader of this e-mail message is not the intended recipient, or the employee or agent responsible for delivery of the message to the intended recipient, you are hereby notified that any dissemination, distribution or copying of this communication is prohibited. If you have received this e-mail in error, please notify the sender immediately by telephone at 802-224-0108.

Profile Tracking # _____

WASTE PROFILE FORM

For assistance in completing this document or for additional information on service offerings, please visit our website at www.usecology.com, or call 800-592-5489.

US Ecology will choose the appropriate facility and method of waste management for your waste from the technologies offered at each operation.

If you wish to direct this waste to a specific facility(s) or treatment technology please indicate here:

Waste Common Name: Soil Contaminated with PCBs

Section 1 – Generator & Customer Information

Generator EPA ID # NYD987035482

NAICS/SIC Code

Generator Unisys

Facility Address 777 South Main St

City Elmira State NY Zip 14904

24-hour Emergency Response Number

Mailing Address 3199 Pilot Knob Rd

City Eagan State MN Zip 55121

Generator Contact Kevin Krueger

Title Director Global Safety, Health & Security

Phone 651-212-7273 Fax

E-mail kevin.krueger@unisys.com

Internal Use Only: EQ Division

EQ Customer No.

Invoicing Company

Remedial Construction Services, L.P. (RECON)

Address 950 West Valley Road

City Wayne State PA Zip 19087

Country USA

Invoicing Contact John Geary

Phone (857) 378-9225 Fax

Technical Contact John Geary

Phone (857) 378-9225 Fax

Cell Phone (same as above)

E-mail john.geary@reconservices.com

Section 2 – Shipping & Packaging Information

2.1) Shipping Volume & Frequency:

a) Volume of Waste to be Shipped: 3000 tons

b) Frequency: ❑ One time ❑ Month X❑ Year ❑ Other:

2.2) DOT Information

a) Is this a U.S. Department of Transportation (USDOT) Hazardous Material? X❑ Yes ❑ No

b) If "Yes", indicate the proper shipping name per 49CFR 172.101 Hazardous Materials Table:

UN 3432,Waste Polychlorinated biphenyls, solid, 9, PGIII

Section 3 – Special Properties

3.1) Color Brown

3.2) Odor X❑ None ❑ Ammonia ❑ Amines ❑ Mercaptans ❑ Sulfur ❑ Organic Acid ❑ Amines/Ammonia ❑ Other:

3.3) Consistency at 70^{0}F: X❑ Solid ❑ Dust/Powder ❑ Debris ❑ Sludge ❑ Liquid ❑ Gas/Aerosol ❑ Varies

3.4) What is the pH? ❑ ≤2 ❑ 2.1-4.9 X❑ 5 – 10 ❑ 10.1 – 12.4 ❑ ≥12.5 ❑ N/A

3.5) What is the flash point? ❑ <90^{0}F ❑ 90-139^{0}F ❑ 140-199^{0}F ❑ >200^{0}F X❑ N/A

3.6) Does this waste exhibit any of the following properties? **(check all that apply)**

✠❑ **None**	❑ Free Liquids	❑ Metal Fines	❑ Water Reactive	❑ Biohazard
❑ Shock Sensitive	❑ Oily Residue	❑ Dioxins	❑ Furans	❑ Aluminum
❑ Asbestos – non-friable	❑ Asbestos – friable	❑ Other Radioactive	❑ Air Reactive	❑ Isocyanates
❑ Biodegradable Sorbents	❑ Pyrophoric	❑ Reactive Sulfide	❑ Reactive Cyanide	❑ Explosives
❑ Temperature Controlled Organic Peroxide		❑ NORM	❑ TENORM	

Section 4 – Composition and Generating Process

4.1) Provide a physical and chemical composition of the waste (e.g. soil, water, PPE, debris, etc.). List the percent ranges of the material, either estimated or known.

Soil	85 to 90 %	Debris (rock, wood, plastic, PPE)	5 to 15 %
Moisture	5 to 10 %	_____	_____ to _____ %

4.2) Provide a description of the generating process. *Remediation & IDW Sites: please provide a site history.*

Remediation waste generated for the former Sperry Remington site in Elmira, NY. Sperry Remington operated a typewriter manufacturing plant at the Elmira site from 1937 to 1972
Manufacturing Operations included:

- Coal Fired Power Plant
- Foundry
- Oil Water Separators
- Cyanide Heat Treating
- Machining of Parts
- Plating
- Degreasing

4.3) Are there any known previous handling or treatment issues involving this waste? ❑ Yes* X❑ No
*If yes, describe: _____

Section 5 – Hazardous Wastes

As determined by 40 CFR, Part 261 and State Rules: **Please list applicable waste code(s):**

5.1) Is this waste exempted from RCRA? ❑ Yes, please provide exemption: _____ X❑ No

5.2) Is this an EPA RCRA listed hazardous waste (F, K, P or U)? ❑ Yes: _____ X❑ No
a) For F006–F009, F012, does this come from a generator that conducts a cyanide plating process? ❑ Yes ❑ No

5.3) Is this an EPA RCRA characteristic hazardous waste (D001-D043)? ❑ Yes: _____ X❑ No

5.4) Do any State Specific Hazardous Waste Codes apply? X❑ Yes: PCB1 ❑ No

If you answered 'no' to 5.2, 5.3 and 5.4, please proceed to Section 6.

5.5) EPA Source Code: G49 (Other remediation) EPA Form Code: W301 (Contaminated Soil)

5.6) Waste Code Determination Is Based On: X❑ Generator Knowledge X❑ Analysis ❑ MSDS
Analysis and/or MSDS may be required for review and approval for hazardous and non-hazardous waste streams.

5.7) Does this waste exceed Land Disposal Restriction levels? ❑ Yes X❑ No

a) Is this stream a wastewater (WW) or non-wastewater (NWW)? ❑ WW X❑ NWW
b) If this waste stream is greater than 50% soil, does it meet the alternative soil treatment standards of 40CFR 268.49? X❑ Yes ❑ No
c) Does this waste contain greater than 50% debris, by volume? ❑ Yes X❑ No
(Debris is greater than 2.5 inches in size.)
d) If the debris is larger than 3 ft x 3 ft x 3 ft, please provide the approximate dimensions and weight:

_____

5.8) If this is a characteristic hazardous waste, does it contain Underlying Hazardous Constituents? ❑ Yes* X❑ No

*If Yes, please list: _____

Section 6 – Non-Hazardous Wastes

Please list applicable waste code(s):

6.1) Do any State Specific Non-Hazardous Waste Codes apply? ❑ Yes X❑ No _____

6.2) Is this a Universal (UNIV) waste or a Recyclable Good (RG)? ❑ UNIV ❑ RG X❑ N/A

6.3) Is this waste used oil as defined by 40 CFR Part 279? ❑ Yes X❑ No

a) If yes, is the total halogen content of the used oil waste stream greater than 1,000 ppm? ❑ Yes ❑ No

b) If yes, what is the source of the halogen content?

- ❑ This is a metalworking oil/fluid containing chlorinated paraffins.
- ❑ This is used oil contaminated with chlorofluorocarbons from refrigeration units.
- ❑ This oil contains halogenated solvents. List specific solvents: _____
- ❑ Other, describe: _____

Section 7 – TSCA Information

7.1) What is the concentration of PCBs in the waste? ❑ None ❑ 0-49 ppm **X** ❑ 50-499 ppm ❑ 500+ ppm

7.2) Does the waste contain PCB contamination from a source with a concentration ≥ 50 ppm? **X** ❑ Yes ❑ No ❑ Unknown

If you answered "none" or "0-49 ppm"' to 7.1 and "no" to 7.2, please proceed to Section 8.

7.3) Has this waste been processed into a non-liquid form? ❑ Yes* **X**❑ No

*If yes, what was the concentration of PCBs prior to processing? ❑ 0-499 ppm ❑ 500+ ppm

7.4) Is this non-liquid PCB waste in the form of soil, rags, debris, or other contaminated media? **X**❑ Yes ❑ No

7.5) Are you a PCB capacitor manufacturer or a PCB equipment manufacturer? ❑ Yes **X**❑ No

7.6) Has the PCB Article (e.g., transformer, hydraulic machine, PCB-contaminated electrical equipment) been drained/flushed of all PCBs and decontaminated in accordance with 40 CFR 761.60(b)? **X**❑ N/A ❑ Yes ❑ No

Section 8 – Clean Air Act Information

8.1) Is this waste subject to regulation under 40 CFR, Part 264, Subpart CC (VOC > 500 ppmw)? ❑ Yes X❑ No

8.2) Is this waste subject to regulation under 40 CFR, Part 63, Subpart DD (VOHAP > 500 ppmw)? ❑ Yes X❑ No

8.3) Is the site, or waste, subject to any other NESHAP/MACT standard(s)? ❑ Yes* X❑ No

*If Yes this document serves as notification that this waste contains chemicals _____ , _____ required to be managed in accordance with Part ❑ 61 ❑ 62 ❑ 63 Subpart _____ of NESHAP/MACT standards.

8.4) Does this waste stream contain Benzene? ❑ Yes X❑ No

If you answered "no" to 8.4, please proceed to Section 9.

8.5) Does the waste stream come from a facility subject to 40 CFR 61, Subpart FF (Benzene NESHAP)?

❑ Yes, please provide the SIC/NAICS code: _____ ❑ No

If you answered "no" to questions 8.5, please proceed to Section 9.

8.6) Does your facility manage the waste subject to Benzene NESHAP in a manner other than shipping off-site?

❑ Yes, please specify: _____ ❑ No

8.7) Is the generating source of this waste a facility with Total Annual Benzene (TAB) ≥10 Mg/year? ❑ Yes ❑ No

8.8) Does the waste contain >10% water? ❑ Yes ❑ No

8.9) What is the TAB quantity for your facility? _____ Mg/Year

8.10) What is the total Benzene concentration in your waste? _____ Percent or _____ ppmw.

Supporting analysis must be attached. Do not use TCLP analytical results. Acceptable laboratory methods include 8020, 8240, 8260, 602 and 624.

Section 9 – Certification

I certify that all information (including attachments) is complete and factual and is an accurate representation of the known and suspected hazards, pertaining to the waste described herein. I authorize EQ's personnel to add supplemental information to the waste approval file, provided I am contacted and give verbal permission. I authorize EQ's personnel to obtain a sample from any waste shipment for purposes of verification and confirmation. I agree that, if EQ approves the waste described herein, all such wastes that are transported, delivered, or tendered to EQ by Generator or on Generator's behalf shall be subject to, and Generator shall be bound by, the attached Standard Terms and Conditions.

If I am an agent acting on behalf of the generator, I also certify that I have permission to sign any and all waste characterization paperwork on the generator's behalf and that I can produce such certification in writing upon request.

Generator Signature Kevin Krueger Printed Name KEVIN KRUEGER

Company Unisys Title Director Global EH&S Date 13 June 2017.

Appendix H

Manifests and Bills of Lading

159

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
NYR 000 231 571	1	281-250-2646	017487548 JJK

GENERATOR

5. Generator's Name and Mailing Address
UNISYS
3199 PILOT KNOB ROAD
EAGAN, MN 55121
Generator's Phone:

Generator's Site Address (if different than mailing address)
777 SOUTH MAIN ST
ELMIRA, NY 14904

6. Transporter 1 Company Name
~~PAGE E.T.C. INC~~ US BULK TRANSPORT, INC
U.S. EPA ID Number
~~NYD 986 060 947~~ PAD987347515

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
WAYNE DISPOSAL, INC. SITE #2 LANDFIL
49350 N I-94 SERVICE DRIVE
BELLEVILLE, MI 48111
Facility's Phone: (800) 592-5489
U.S. EPA ID Number
MID 048 090 633

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. UN3432, Polychlorinated biphenyls, solid, 9, PGII, ERG #171	XX1	DT	EST 20,800	K	PCB1
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. G170001WDI / Soil Contaminated with PCBs / Storage Start Date: 7-27-17
Unique Container ID: 159-A [EPA XGA-3580]
SAMPLE #B15

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: AS AGENT FOR UNISYS: JULIANNE PAYNE
Signature
Month 07 Day 27 Year 17

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: RON NEIFERT
Signature
Month 7 Day 27 Year 17
Transporter 2 Printed/Typed Name
Signature
Month Day Year

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
PCB			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Connie Wilkie
Signature
Month Day Year

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: NYR 000 231 571
2. Page 1 of: 1
3. Emergency Response Phone: 281-250-2646
4. Manifest Tracking Number: 017487549 JJK

GENERATOR

5. Generator's Name and Mailing Address: UNISYS
3199 PILOT KNOB ROAD
EAGAN, MN 55121
Generator's Phone:

Generator's Site Address (if different than mailing address)
777 SOUTH MAIN ST
ELMIRA, NY 14904

6. Transporter 1 Company Name: ~~PAGE E.T.C. INC~~ US BULK TRANSPORT, INC
U.S. EPA ID Number: ~~NYD 986 969 947~~ PAD987347515

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address: WAYNE DISPOSAL, INC. SITE #2 LANDFIL
49350 N I-94 SERVICE DRIVE
BELLEVILLE, MI 48111
Facility's Phone: (800) 592-5489
U.S. EPA ID Number: MID 048 090 633

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. UN3432, Polychlorinated biphenyls, solid, 9, PGII, ERG #171	XX1	DT	EST 20,800	K	PCB1
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. G170001WDI / Soil Contaminated with PCBs / Storage Start Date: 7-27-17
Unique Container ID: 116-A [VA 621-1347L]
SAMPLE#B15

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: AS AGENT FOR UNISYS: JULIANNE PAYNE
Signature
Month Day Year

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Tom BONAMO
Signature
Month 7 Day 27 Year 17
Transporter 2 Printed/Typed Name
Signature
Month Day Year

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☒ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
actual weight 24118K ok per John Geary w/ Recon Services BB 7/31/17
Manifest Reference Number:
18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. PCB 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name
Signature
Month 7 Day 28 Year 17

DESIGNATED FACILITY TO GENERATOR

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

Form Approved. OMB No. 2050-0039

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: NYR 000 231 571
2. Page 1 of: 1
3. Emergency Response Phone: 281-250-2646
4. Manifest Tracking Number: 017487580 JJK

GENERATOR

5. Generator's Name and Mailing Address: UNISYS
3199 PILOT KNOB ROAD
EAGAN, MN 55121
Generator's Phone:

Generator's Site Address (if different than mailing address)
777 SOUTH MAIN ST
ELMIRA, NY 14904

6. Transporter 1 Company Name: ~~PAGE E.T.G. INC~~ US BULK TRANSPORT, INC
U.S. EPA ID Number: ~~PAD987347515~~ ~~ALYD 986 009 047~~

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address: WAYNE DISPOSAL, INC. SITE #2 LANDFII
49350 N I-94 SERVICE DRIVE
BELLEVILLE, MI 48111
(800) 592-5489
Facility's Phone:
U.S. EPA ID Number: MID 048 090 633

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. UN3432, Polychlorinated biphenyls, solid, 9, PGII ERG #171	XX1	DT	EST 29,800	K	PCB1
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. G170001WDI / Soil Contaminated with PCBs / Storage Start Date: 7-25-17
Unique Container ID: 190A EPA XDH 7380J
SAMPLE #B15

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: AS AGENT FOR UNISYS: ASHWIN RANNA
Signature: Ashwin
Month 07 Day 25 Year 17

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Chris Kent
Signature: Chris
Month 07 Day 25 Year 17

Transporter 2 Printed/Typed Name
Signature
Month Day Year

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☑ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Actual weight 23427 kg per John Leary 61 Recon Services BB 7/27/17
Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
PCB			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Connie Wilkie
Signature
Month Day Year

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

157 88500

Please print or type: (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
NYR 000 231 571	1	281-250-2040	017487574 JJK

GENERATOR

5. Generator's Name and Mailing Address: UNISYS
3199 PILOT KNOB ROAD
EAGAN, MN 55121
Generator's Phone:

Generator's Site Address (if different than mailing address)
777 SOUTH MAIN ST
ELMIRA, NY 14904

6. Transporter 1 Company Name (AR): ~~PAGE E.T.C. INC~~ US BULK TRANSPORT, INC
U.S. EPA ID Number (AR): ~~NYD 986 960 847~~ PAD987347515

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address: WAYNE DISPOSAL, INC. SITE #2 LANDFII
49350 N I-94 SERVICE DRIVE
BELLEVILLE, MI 48111
Facility's Phone: (800) 592-5489
U.S. EPA ID Number: MID 048 090 633

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. UN3432, Polychlorinated biphenyls, solid, 9, PGII, ERG #171	XX1	DT	EST 20,800	K	PCB1
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. G17001WDI / Soil Contaminated with PCBs / Storage Start Date: 7-25-17
Unique Container ID: 157 - A
SAMPLE B15

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: AS AGENT FOR UNISYS: ASHWIN RAJVA
Signature
Month 07 Day 25 Year 17

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Jay L. Fauzey
Signature
Month 07 Day 25 Year 17
Transporter 2 Printed/Typed Name
Signature
Month Day Year

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☒ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Actual weight 24473K ok per John Graeyul Manifest Reference Number: BB 7/27/17
18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
PCB			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Connie Wilkes
Signature
Month Day Year 7 27 17

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
NYR 000 231 571	1	281-230-2646	017487529 JJK

GENERATOR

5. Generator's Name and Mailing Address: UNISYS
3199 PILOT KNOB ROAD
EAGAN, MN 55121
Generator's Phone:

Generator's Site Address (if different than mailing address)
777 SOUTH MAIN ST
ELMIRA, NY 14904

6. Transporter 1 Company Name: ~~PAGE E.T.C. INC~~ US BULK TRANSPORT, INC.
U.S. EPA ID Number: ~~PAD987347515~~ ~~4PYD 986 909 947~~

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address: WAYNE DISPOSAL, INC. SITE #2 LANDFII
49350 N I-94 SERVICE DRIVE
BELLEVILLE, MI 48111
Facility's Phone: (800) 592-5489
U.S. EPA ID Number: MID 048 090 633

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. UN3432, Polychlorinated biphenyls, solid, 9, PGII, ERG #171	XX1	DT	EST 29,800	K	PCB1
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. G170001WDI / Soil Contaminated with PCBs / Storage Start Date: 7-24-17
Unique Container ID: 90908
SAMPLE # B15

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: AS AGENT FOR UNISYS: ASHWIN RANNA
Signature
Month 07 Day 24 Year 17

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Joseph DeMarco
Signature
Month 07 Day 24 Year 17
Transporter 2 Printed/Typed Name
Signature
Month Day Year

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☒ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Actual weight 186554 ok per John Geary w/ Recon Services BB 7/27/17
Manifest Reference Number:
U.S. EPA ID Number

18b. Alternate Facility (or Generator)
Facility's Phone:
Month Day Year
18c. Signature of Alternate Facility (or Generator)

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
PCB			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Chris Grissom
Signature
Month 7 Day 25 Year 17

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

184

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: NYR 000 231 571
2. Page 1 of: 1
3. Emergency Response Phone: 281-250-2646
4. Manifest Tracking Number: 017487532 JJK

GENERATOR

5. Generator's Name and Mailing Address: UNISYS
3199 PILOT KNOB ROAD
EAGAN, MN 55121
Generator's Phone:

Generator's Site Address (if different than mailing address)
777 SOUTH MAIN ST
ELMIRA, NY 14904

6. Transporter 1 Company Name: ~~PAGE E.T.C. INC~~ US BULK TRANSPORT, INC
U.S. EPA ID Number: ~~NYD 986 969 947~~ PAD 987347515

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address: WAYNE DISPOSAL, INC. SITE #2 LANDFII
49350 N I-94 SERVICE DRIVE
BELLEVILLE, MI 48111
Facility's Phone: (800) 592-5489
U.S. EPA ID Number: MID 048 090 633

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. UN3432, Polychlorinated biphenyls, solid, 9, PGII, ERG #171	XX1	DT	EST 20,800	K	PCB1
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. G170001WDI / Soil Contaminated with PCBs / Storage Start Date: 7-24-17
Unique Container ID: 90930 [PAXJN 1908]
SAMPLE #BIS
TRK #184
TRLR #90930

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: AS AGENT FOR UNISYS : ASHWIN RANNA
Signature
Month: 07 Day: 24 Year: 17

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: R.K. WAGNER
Signature: R K Wagner
Month: 07 Day: 24 Year: 17

Transporter 2 Printed/Typed Name
Signature
Month: Day: Year:

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☒ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
actual weight 23500 Kolbs per John Gray Manifest Reference Number: BB 7/27/17

18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month: Day: Year:

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
PCB			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Chris Gibson
Signature
Month: 7 Day: 25 Year: 17

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: NYR 000 231 571
2. Page 1 of: 1
3. Emergency Response Phone: 281-250-2646
4. Manifest Tracking Number: 017487530 JJK

GENERATOR

5. Generator's Name and Mailing Address: UNISYS
3199 PILOT KNOB ROAD
EAGAN, MN 55121
Generator's Phone:

Generator's Site Address (if different than mailing address)
777 SOUTH MAIN ST
ELMIRA, NY 14904

6. Transporter 1 Company Name: ~~PAGE E.T.C. INC.~~ US BULK TRANSPORT, INC
U.S. EPA ID Number: PAD 987347515 (AR) ~~NYD 986 960 847~~

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address: WAYNE DISPOSAL, INC. SITE #2 LANDFIL
49350 N I-94 SERVICE DRIVE
BELLEVILLE, MI 48111
Facility's Phone: (800) 592-5489
U.S. EPA ID Number: MID 048 090 633

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. UN3432, Polychlorinated biphenyls, solid, 9, PGII, ERG #171	XX1	DT	EST 29000	K	PCB1
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. G170001WDI / Soil Contaminated with PCBs / Storage Start Date: 7-24-17
Unique Container ID: 90925 [PA XDL-1642]
SAMPLE # B15

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: AS AGENT FOR UNISYS: ASHWIN RANNA
Signature: Ashwin
Month: 07 Day: 24 Year: 17

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: KICK ROBERTS SR
Signature:
Month: 07 Day: 24 Year: 17

Transporter 2 Printed/Typed Name:
Signature:
Month: Day: Year:

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☒ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Actual weight 23409K dlv per John Geary w/ Purchasing 8/7/17
Manifest Reference Number:
18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator)
Month: Day: Year:

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
PCB			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Ronnie Mellie
Signature:
Month: Day: Year: 7/25/17

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: NYR 000 231 571
2. Page 1 of: 1
3. Emergency Response Phone: 281-250-2646
4. Manifest Tracking Number: 017487572 JJK

GENERATOR

5. Generator's Name and Mailing Address: UNISYS
3199 PILOT KNOB ROAD
EAGAN, MN 55121
Generator's Phone:

Generator's Site Address (if different than mailing address)
777 SOUTH MAIN ST
ELMIRA, NY 14904

6. Transporter 1 Company Name: ~~PAGE E.T.S. INC~~ US BULK TRANSPORT, INC
U.S. EPA ID Number: ~~NYD 986 960 947~~ PAD987347515

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address: WAYNE DISPOSAL, INC. SITE #2 LANDFII
49350 N I-94 SERVICE DRIVE
BELLEVILLE, MI 48111
Facility's Phone: (800) 592-5489
U.S. EPA ID Number: MID 048 090 633

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. UN3432, Polychlorinated biphenyls, solid, 9, PGII, ERG #171	XX1	DT	EST 29800	K	PCB1
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. G170001WDI / Soil Contaminated with PCBs / Storage Start Date: 7-25-17
Unique Container ID: 198-B [PA XHH 2077]
SAMPLE #B15

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: AS AGENT FOR UNISYS: ASHWIN RANNA
Signature: Ashwin
Month: 07 Day: 25 Year: 17

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Dennis Bailey
Signature:
Month: 7 Day: 25 Year: 17

Transporter 2 Printed/Typed Name
Signature
Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☒ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Actual weight 23718K ok per John Geangel Receiving
Manifest Reference Number: BB7127/17

18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
PCB			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Mike Swan
Signature:
Month: 7 Day: 26 Year: 17

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

102 82640

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	NYR 000 231 571	1	281-230-2046	017487526 JJK

GENERATOR

5. Generator's Name and Mailing Address
UNISYS
3199 PILOT KNOB ROAD
EAGAN, MN 55121
Generator's Phone:

Generator's Site Address (if different than mailing address)
777 SOUTH MAIN ST
ELMIRA, NY 14904

6. Transporter 1 Company Name
~~PAGE E.T.C. INC~~ US BULK TRANSPORT, INC
U.S. EPA ID Number
~~NYD 986 969 947~~ PAD987347515

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
WAYNE DISPOSAL, INC. SITE #2 LANDFIL
49350 N I-94 SERVICE DRIVE
BELLEVILLE, MI 48111
Facility's Phone: (800) 592-5489
U.S. EPA ID Number
MID 048 090 633

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. UN3432, Polychlorinated biphenyls, solid, 9, PGII, ERG #171	XX1	DT	EST 20,800	K	PCB1
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. G170001WDI / Soil Contaminated with PCBs / Storage Start Date: 7-24-17
Unique Container ID: 102 A
SAMPLE B15

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: AS AGENT FOR UNISYS: ASHWIN RAMAN
Signature: Ashwin
Month 07 Day 24 Year 17

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Josh Tsyl
Signature:
Month 7 Day 24 Year 17

Transporter 2 Printed/Typed Name
Signature
Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☒ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Actual weight 21,045 lbs per John Gregg Manifest Reference Number: 7/27/17

18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
PCB			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Connie Wilkie
Signature:
Month 7 Day 31 Year 17

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: NYR 000 231 571
2. Page 1 of: 1
3. Emergency Response Phone: 281-250-2646
4. Manifest Tracking Number: 017487505 JJK

GENERATOR

5. Generator's Name and Mailing Address: UNISYS
3199 PILOT KNOB ROAD
EAGAN, MN 55121
Generator's Phone:

Generator's Site Address (if different than mailing address)
777 SOUTH MAIN ST
ELMIRA, NY 14904

6. Transporter 1 Company Name: ~~PAGE E.T.C. INC~~ U.S. BULK TRANSPORT, INC
U.S. EPA ID Number: PAD 987975015 ~~NYD 986 969 947~~

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address: WAYNE DISPOSAL, INC. SITE #2 LANDFIL
49350 N I-94 SERVICE DRIVE
BELLEVILLE, MI 48111
Facility's Phone: (800) 592-5489
U.S. EPA ID Number: MID 048 090 633

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. UN3432, Polychlorinated biphenyls, solid, 9, PGII, ERG #171	XX1	DT	EST 20,800	K	PCB1
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. G170001WDI / Soil Contaminated with PCBs / Storage Start Date: 7-20-17
Unique Container ID: 192-2-A
SAMPLE BIS

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: AS AGENT FOR UNISYS: ASHWIN RANNA
Signature: Ashwin
Month: 07 Day: 26 Year: 2017

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: William J. Schaffner
Signature:
Month: 7 Day: 20 Year: 17

Transporter 2 Printed/Typed Name:
Signature:
Month: Day: Year:

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☒ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Actual weight 23818K ckd per John Granger Receiving 7/27/17
Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number:
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month: Day: Year:

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
PCB			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name:
Signature:
Month: Day: Year:

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

157 86040

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	NYR 000 231 571	1	281-250-2646	017487504 JJK

GENERATOR

5. Generator's Name and Mailing Address: UNISYS
3199 PILOT KNOB ROAD
EAGAN, MN 55121
Generator's Phone:

Generator's Site Address (if different than mailing address)
777 SOUTH MAIN ST
ELMIRA, NY 14904

6. Transporter 1 Company Name: ~~PAGE E.T.C. INC~~ U.S. BULK TRANSPORT, INC.
U.S. EPA ID Number: ~~NYD 986 969 947~~ NYD 098 737 515

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address: WAYNE DISPOSAL, INC. SITE #2 LANDFIL
49350 N I-94 SERVICE DRIVE
BELLEVILLE, MI 48111
Facility's Phone: (800) 592-5489
U.S. EPA ID Number: MID 048 090 633

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. UN3432, Polychlorinated biphenyls, solid, 9, PGII, ERG #171	1 x 1	DT	EST 20,800	K	PCB1
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. G17000 1WDI / Soil Contaminated with PCBs / Storage Start Date: 7-20-17
Unique Container ID: 157-A
SAMPLE #B15

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: AGENT FOR UNISYS: ASHWIN RANNA
Signature: Ashwin
Month: 07 Day: 20 Year: 2017

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: SAUL FAUZEY
Signature:
Month: 07 Day: 20 Year: 17
Transporter 2 Printed/Typed Name
Signature
Month Day Year

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☒ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Actual weight = 23362 K ok per John Geaugue Recognizes BB 7/27/17
Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
PCB			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name
Signature
Month: 7 Day: 27 Year: 17

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR STATE (IF REQUIRED)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: NYR 000 231 571
2. Page 1 of: 1
3. Emergency Response Phone: 281-250-2646
4. Manifest Tracking Number: 017487573 JJK

GENERATOR

5. Generator's Name and Mailing Address: UNISYS
3199 PILOT KNOB ROAD
EAGAN, MN 55121
Generator's Phone:

Generator's Site Address (if different than mailing address)
777 SOUTH MAIN ST
ELMIRA, NY 14904

6. Transporter 1 Company Name: ~~PAGE E.T.C. INC~~ US BULK TRANSPORT
U.S. EPA ID Number: PAD987347515

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address: WAYNE DISPOSAL, INC. SITE #2 LANDFIl
49350 N I-94 SERVICE DRIVE
BELLEVILLE, MI 48111
Facility's Phone: (800) 592-5489
U.S. EPA ID Number: MID 048 090 633

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. UN3432, Polychlorinated biphenyls, solid, 9, PGII, ERG #171	XX1	DT	EST 20,800	K	PCB1
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. G170001WDI / Soil Contaminated with PCBs / Storage Start Date: 7-25-17
Unique Container ID: 90920
SAMPLE # B15

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: AS AGENT FOR UNISYS: ASHWIN RANNA
Signature: Ashwin
Month: 07 Day: 25 Year: 17

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Lynn Rublee
Signature:
Month: 7 Day: 25 Year: 17
Transporter 2 Printed/Typed Name:
Signature:
Month: Day: Year:

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☒ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
actual volume 24+26yd Kealey per John Grangy w/ Reconstruction Manifest Reference Number: B3 7/26/17
18b. Alternate Facility (or Generator)
U.S. EPA ID Number:
Facility's Phone:
18c. Signature of Alternate Facility (or Generator)
Month: Day: Year:

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. PCB 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name:
Signature:
Month: 7 Day: 26 Year: 17

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: NYR 000 231 571
2. Page 1 of: 1
3. Emergency Response Phone: 281-250-2646
4. Manifest Tracking Number: 017487575 JJK

GENERATOR

5. Generator's Name and Mailing Address: UNISYS
3199 PILOT KNOB ROAD
EAGAN, MN 55121
Generator's Phone:

Generator's Site Address (if different than mailing address)
777 SOUTH MAIN ST
ELMIRA, NY 14904

6. Transporter 1 Company Name: ~~PAGE E.I.C. INC~~ US BULK TRANSPORT, INC
U.S. EPA ID Number: PAD987347515 ~~NYD 980 969 947~~

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address: WAYNE DISPOSAL, INC. SITE #2 LANDFII
49350 N I-94 SERVICE DRIVE
BELLEVILLE, MI 48111
Facility's Phone: (800) 592-5489
U.S. EPA ID Number: MID 048 090 633

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. UN3432, Polychlorinated biphenyls, solid, 9, PGII, ERG #171	XX1	DT	EST 20,800	K	PCB1
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. G170001WDI / Soil Contaminated with PCBs / Storage Start Date: 7-25-17
Unique Container ID: 192-2-A CX268858 PAJ
SAMPLE # B15

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: AS AGENT FOR UNISYS: ASHWIN RANNA
Signature: Ashwin
Month: 07 Day: 25 Year: 17

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: William J SCHAFFNER
Signature:
Month: 7 Day: 25 Year: 17

Transporter 2 Printed/Typed Name:
Signature:
Month: Day: Year:

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☒ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Actual weight 24 055# ok per John Geary by Reconstructing BB 7/26/17
Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number:
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month: Day: Year:

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
PCB			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Connie Wilkes
Signature:
Month: Day: Year:

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

169

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: NYR 000 231 571
2. Page 1 of: 1
3. Emergency Response Phone: 281-250-2646
4. Manifest Tracking Number: 017487545 JJK

GENERATOR

5. Generator's Name and Mailing Address: UNISYS
3199 PILOT KNOB ROAD
EAGAN, MN 55121
Generator's Phone:

Generator's Site Address (if different than mailing address)
777 SOUTH MAIN ST
ELMIRA, NY 14904

6. Transporter 1 Company Name: ~~PAGE E.I.C. INC~~ U.S. BULK TRANSPORT, INC
U.S. EPA ID Number: ~~NYD 986 969 947~~ PAD 987347515

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address: WAYNE DISPOSAL, INC. SITE #2 LANDFIL
49350 N I-94 SERVICE DRIVE
BELLEVILLE, MI 48111
Facility's Phone: (800) 592-5489
U.S. EPA ID Number: MID 048 090 633

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. UN3432, Polychlorinated biphenyls, solid, 9, PGII, ERG #171	XX1	DT	EST 20,000	K	PCB1
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. G170001WDI / Soil Contaminated with PCBs / Storage Start Date: 7-26-17
Unique Container ID: 169-A LNY BL26345
SAMPLE #B15

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: AS AGENT FOR UNISYS: ASHWIN RANNA
Signature: Ashwin
Month: 07 Day: 26 Year: 17

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: EVERETT MOSHER
Signature:
Month: 7 Day: 26 Year: 17

Transporter 2 Printed/Typed Name
Signature
Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
PCB			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Connie Wilkie
Signature:
Month: 7 Day: 27 Year: 17

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

Truck # 179

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: NYR 000 231 571
2. Page 1 of: 1
3. Emergency Response Phone: 281-230-2046
4. Manifest Tracking Number: 017487544 JJK

GENERATOR

5. Generator's Name and Mailing Address: UNISYS
3199 PILOT KNOB ROAD
EAGAN, MN 55121
Generator's Phone:

Generator's Site Address (if different than mailing address)
777 SOUTH MAIN ST
ELMIRA, NY 14904

6. Transporter 1 Company Name (AR): ~~PAGE E.T.C. INC~~ U.S. BULK TRANSPORT, INC.
U.S. EPA ID Number (AR): ~~NYD 986 969 947~~ PAD987347515

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address: WAYNE DISPOSAL, INC. SITE #2 LANDFIL
49350 N I-94 SERVICE DRIVE
BELLEVILLE, MI 48111
Facility's Phone: (800) 592-5489
U.S. EPA ID Number: MID 048 090 633

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. UN3432, Polychlorinated biphenyls, solid, 9, PGII, ERG #171	XX1	DT	EST 20,800	K	PCB1
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. G170001WDI / Soil Contaminated with PCBs / Storage Start Date: 7-26-17
Unique Container ID: 179-A TPA XKM 8116
SAMPLE #B15

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: AS AGENT FOR UNISYS ASHWIN RANNA
Signature: Ashwin
Month: 07 Day: 26 Year: 17

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Brian L. Bauser
Signature: Brian L Bauser
Month: 07 Day: 26 Year: 17
Transporter 2 Printed/Typed Name
Signature
Month Day Year

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
PCB			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Connie Miller
Signature
Month: 07 Day: 27 Year: 17

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: NYR 000 231 571
2. Page 1 of: 1
3. Emergency Response Phone: 281-250-2646
4. Manifest Tracking Number: 017487514 JJK

GENERATOR

5. Generator's Name and Mailing Address: UNISYS
3199 PILOT KNOB ROAD
EAGAN, MN 55121
Generator's Phone:

Generator's Site Address (if different than mailing address)
777 SOUTH MAIN ST
ELMIRA, NY 14904

6. Transporter 1 Company Name: ~~PAGE E.I.C. INC~~ U.S. BULK TRANSPORT, INC (AR)
U.S. EPA ID Number: PAD 987 347 515 ~~NYD 986 969 947~~

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address: WAYNE DISPOSAL, INC. SITE #2 LANDFIL
49350 N I-94 SERVICE DRIVE
BELLEVILLE, MI 48111
Facility's Phone: (800) 592-5489
U.S. EPA ID Number: MID 048 090 633

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. UN3432, Polychlorinated biphenyls, solid, 9, PGII, ERG #171	XX1	DT	EST 20,000	K	PCB1
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. G170001WDI / Soil Contaminated with PCBs / Storage Start Date: 7-21-17
Unique Container ID: 1257-A
SAMPLE # B15

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: AS AGENT FOR UNISYS: ASHWIN RANNA
Signature: Ashwin
Month: 07 Day: 21 Year: 2017

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: ALLEN CRISPEN
Signature:
Month: 07 Day: 21 Year: 17

Transporter 2 Printed/Typed Name:
Signature:
Month: Day: Year:

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number:
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month: Day: Year:

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
PCB			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Connie Wilke
Signature:
Month: 7 Day: 27 Year: 17

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

174

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
NYR 000 231 571	1	281-230-2646	017487536 JJK

GENERATOR

5. Generator's Name and Mailing Address: UNISYS
3199 PILOT KNOB ROAD
EAGAN, MN 55121
Generator's Phone:

Generator's Site Address (if different than mailing address)
777 SOUTH MAIN ST
ELMIRA, NY 14904

6. Transporter 1 Company Name (AR) U.S. BULKTRANSPORT, INC. ~~PAGE E.T.C. INC~~
U.S. EPA ID Number: PAD 987347 515 ~~NYD 986 969 947~~

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address: WAYNE DISPOSAL, INC. SITE #2 LANDFIL
49350 N I-94 SERVICE DRIVE
BELLEVILLE, MI 48111
Facility's Phone: (800) 592-5489
U.S. EPA ID Number: MID 048 090 633

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. UN3432, Polychlorinated biphenyls, solid, 9, PGII, ERG #171	XX1	DT	EST 20,000	K	PCB1
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. G170001WDI / Soil Contaminated with PCBs / Storage Start Date: 7-26-17
Unique Container ID: 174-D [PAXCX2943]
SAMPLE #B15

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: AS AGENT FOR UNSYS: ASHWIN RANNA
Signature: Ashwin
Month: 07 Day: 26 Year: 17

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: VICTOR L TRACY
Signature:
Month: 7 Day: 26 Year: 17

Transporter 2 Printed/Typed Name:
Signature:
Month: Day: Year:

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month: Day: Year:

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
PCB			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Tonne Wilkie
Signature:
Month: Day: Year:

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

162

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: NYR 000 231 571
2. Page 1 of: 1
3. Emergency Response Phone: 281-230-2646
4. Manifest Tracking Number: 017487539 JJK

GENERATOR

5. Generator's Name and Mailing Address: UNISYS
3199 PILOT KNOB ROAD
EAGAN, MN 55121
Generator's Phone:

Generator's Site Address (if different than mailing address)
777 SOUTH MAIN ST
ELMIRA, NY 14904

6. Transporter 1 Company Name: ~~PAGE E.T.C. INC~~ U.S. BULK TRANSPORT, INC.
U.S. EPA ID Number: PAD987347515 ~~NYD 986 969 947~~

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address: WAYNE DISPOSAL, INC. SITE #2 LANDFIL
49350 N I-94 SERVICE DRIVE
BELLEVILLE, MI 48111
Facility's Phone: (800) 592-5489
U.S. EPA ID Number: MID 048 090 633

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. UN3432, Polychlorinated biphenyls, solid, 9, PGII, ERG #171	XX1	DT	EST 29800	K	PCB1
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. G17001WDI / Soil Contaminated with PCBs / Storage Start Date: 7-26-17
Unique Container ID: 162-A [S.C. PV79001]
SAMPLE # B15

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: AS AGENT FOR UNISYS: ASHWIN RANNA
Signature: Ashwin
Month: 07 Day: 26 Year: 17

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Jerry Blair
Signature:
Month: 07 Day: 26 Year: 17

Transporter 2 Printed/Typed Name:
Signature:
Month: Day: Year:

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number:
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month: Day: Year:

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
PCB			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Connie Wilke
Signature:
Month: Day: Year: 7 27 17

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

184

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
NYR 000 231 571	1	281-250-2646	017487533 JJK

GENERATOR

5. Generator's Name and Mailing Address: UNISYS
3199 PILOT KNOB ROAD
EAGAN, MN 55121
Generator's Phone:

Generator's Site Address (if different than mailing address)
777 SOUTH MAIN ST
ELMIRA, NY 14904

6. Transporter 1 Company Name: ~~PAGE E.T.C. INC~~ U.S. BULK TRANSPORT, INC (AR) — U.S. EPA ID Number: ~~NYD 986 969 947~~ PAD987347515

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address: WAYNE DISPOSAL, INC. SITE #2 LANDFIL
49350 N I-94 SERVICE DRIVE
BELLEVILLE, MI 48111
(800) 592-5489
Facility's Phone:
U.S. EPA ID Number: MID 048 090 633

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. UN3432, Polychlorinated biphenyls, solid, 9, PGII, ERG #171	XX1	DT	EST 20,800	K	PCB1
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. G170001WDI / Soil Contaminated with PCBs / Storage Start Date: 7-26-17
Unique Container ID: 90930 [EPA XJN1908]
SAMPLE #B15

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: AS AGENT FOR UNISYS: ASHWIN RANNA — Signature: Ashwin — Month: 07 Day: 26 Year: 17

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: R K WAGNER — Signature: R K. Wagner — Month: 07 Day: 26 Year: 17

Transporter 2 Printed/Typed Name — Signature — Month — Day — Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month — Day — Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
PCB			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name — Signature — Month: 7 Day: 26 Year: 17

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

#137 80,180

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
NYR 000 231 571	1	281-250-2646	017487534 JJK

GENERATOR

5. Generator's Name and Mailing Address: UNISYS
3199 PILOT KNOB ROAD
EAGAN, MN 55121
Generator's Phone:

Generator's Site Address (if different than mailing address)
777 SOUTH MAIN ST
ELMIRA, NY 14904

6. Transporter 1 Company Name (A) RAGE E I C INC ~~U.S. BULK TRANSPORT, INC.~~ U.S. EPA ID Number (B) ~~NYD 986 969 947~~ PAD 987347515

7. Transporter 2 Company Name U.S. EPA ID Number

8. Designated Facility Name and Site Address: WAYNE DISPOSAL, INC. SITE #2 LANDFIL
49350 N I-94 SERVICE DRIVE
BELLEVILLE, MI 48111
Facility's Phone: (800) 592-5489
U.S. EPA ID Number: MID 048 090 633

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. UN3432, Polychlorinated biphenyls, solid, 9, PGII, ERG #171	XX1	DT	EST 20,000	K	PCB1
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. G170001WDI / Soil Contaminated with PCBs / Storage Start Date: 7-26-17
Unique Container ID: 137-A EPA XHG5245J
SAMPLE #15

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: AS AGENT FOR UNISYS: ASHWIN RANNA | Signature: Ashwin | Month: 07 | Day: 26 | Year: 17

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Michael Kurgat | Signature: Michael Kurgat | Month: 7 | Day: 26 | Year: 17

Transporter 2 Printed/Typed Name | Signature | Month | Day | Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

18b. Alternate Facility (or Generator) U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
PCB			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Connie Wilkes | Signature | Month | Day | Year: 17

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

#123

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: NYR 000 231 571
2. Page 1 of: 1
3. Emergency Response Phone: 281-29-2646
4. Manifest Tracking Number: 017487540 JJK

GENERATOR

5. Generator's Name and Mailing Address: UNISYS
3199 PILOT KNOB ROAD
EAGAN, MN 55121
Generator's Phone:

Generator's Site Address (if different than mailing address)
777 SOUTH MAIN ST
ELMIRA, NY 14904

6. Transporter 1 Company Name: ~~PAGE E.T.C. INC~~ US BULK TRANSPORT, INC. (AR)
U.S. EPA ID Number: ~~PAD987347515~~ ~~NYD 986 969 947~~ AR

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address: WAYNE DISPOSAL, INC. SITE #2 LANDFIL
49350 N I-94 SERVICE DRIVE
BELLEVILLE, MI 48111
Facility's Phone: (800) 592-5489
U.S. EPA ID Number: MID 048 090 633

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. UN3432, Polychlorinated biphenyls, solid, 9, PGII, ERG #171	XX1	DT	EST 20,800	K	PCB1
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. G170001WDI / Soil Contaminated with PCBs / Storage Start Date: 7-26-17
Unique Container ID: 123A LNY AW29750
SAMPLE # B15

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: AS AGENT FOR UNISYS: ASHWINRANNA
Signature: Ashwin
Month: 07 Day: 26 Year: 17

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: MARK STRONG
Signature:
Month: 07 Day: 26 Year: 17

Transporter 2 Printed/Typed Name:
Signature:
Month: Day: Year:

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month: Day: Year:

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
PCB			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name:
Signature:
Month: 7 Day: 27 Year: 17

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: NYR 000 231 571
2. Page 1 of: 1
3. Emergency Response Phone: 281-250-2646
4. Manifest Tracking Number: 017487538 JJK

GENERATOR

5. Generator's Name and Mailing Address: UNISYS
3199 PILOT KNOB ROAD
EAGAN, MN 55121
Generator's Phone:

Generator's Site Address (if different than mailing address)
777 SOUTH MAIN ST
ELMIRA, NY 14904

6. Transporter 1 Company Name: PAGE E.T.C. INC
U.S. EPA ID Number: NYD 986 969 947

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address: WAYNE DISPOSAL, INC. SITE #2 LANDFIL
49350 N I-94 SERVICE DRIVE
BELLEVILLE, MI 48111
Facility's Phone: (800) 592-5489
U.S. EPA ID Number: MID 048 090 633

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. UN3432, Polychlorinated biphenyls, solid, 9, PGII, ERG #171	XX1	DT	EST 29,800	K	PCB1
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. G170001WDI / Soil Contaminated with PCBs / Storage Start Date: 7-26-17
Unique Container ID: NY B H 462923 8162
SAMPLE #B15

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: AS AGENT FOR UNISYS: ASHWIN RANNA
Signature: Ashwin
Month: 07 Day: 26 Year: 17

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Debbie DeHart
Signature:
Month: 07 Day: 26 Year: 17
Transporter 2 Printed/Typed Name:
Signature:
Month: Day: Year:

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number:
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month: Day: Year:

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
PCB			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Ronnie Wilkie
Signature:
Month: 7 Day: 27 Year: 17

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
NYR 000 231 571	1	281-250-2646	017487542 JJK

GENERATOR

5. Generator's Name and Mailing Address: UNISYS
3199 PILOT KNOB ROAD
EAGAN, MN 55121
Generator's Phone:

Generator's Site Address (if different than mailing address)
777 SOUTH MAIN ST
ELMIRA, NY 14904

6. Transporter 1 Company Name (AR): ~~PAGE E.T.C. INC~~ U.S. BULK TRANSPORT, INC.
U.S. EPA ID Number (AR): PAD987347515 ~~NYD 986 969 947~~

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address: WAYNE DISPOSAL, INC. SITE #2 LANDFIL
49350 N I-94 SERVICE DRIVE
BELLEVILLE, MI 48111
Facility's Phone: (800) 592-5489
U.S. EPA ID Number: MID 048 090 633

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. UN3432, Polychlorinated biphenyls, solid, 9, PGIII, ERG #171	XX1	PT	EST 20,800	K	PCB1
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. G170001WDI / Soil Contaminated with PCBs / Storage Start Date: 7-26-17
Unique Container ID: 106-A [IL540593]
SAMPLE #B15

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: AGENT FOR UNISYS: ASHWIN RANNA
Signature: Ashwin
Month: 07 Day: 26 Year: 17

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Clinton Davis
Signature:
Month: 07 Day: 26 Year: 17

Transporter 2 Printed/Typed Name
Signature
Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
PCB			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Ronnie Wilkie
Signature:
Month: 7 Day: 27 Year: 17

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

F 0618

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	NYR 000 231 571	1	281-250-2646	017487537 JJK

GENERATOR

5. Generator's Name and Mailing Address: UNISYS
3199 PILOT KNOB ROAD
EAGAN, MN 55121
Generator's Phone:

Generator's Site Address (if different than mailing address)
777 SOUTH MAIN ST
ELMIRA, NY 14904

6. Transporter 1 Company Name: PAGE E.T.C. INC
U.S. EPA ID Number: NYD 986 969 947

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address: WAYNE DISPOSAL, INC. SITE #2 LANDFII
49350 N I-94 SERVICE DRIVE
BELLEVILLE, MI 48111
Facility's Phone: (800) 592-5489
U.S. EPA ID Number: MID 048 090 633

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. UN3432, Polychlorinated biphenyls, solid, 9, PGII, ERG #171	XX1	DT	EST 20,800	K	PCB1
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. G170001WDI / Soil Contaminated with PCBs / Storage Start Date: 7-26-17
Unique Container ID: 9035 EPA PT 6762 MJ
SAMPLE#B15

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: AS AGENT FOR UNISYS: ASHWIN RANNA
Signature: Ashwin
Month: 07 Day: 26 Year: 17

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: KEVIN Hicks
Signature:
Month: 07 Day: 26 Year: 17

Transporter 2 Printed/Typed Name:
Signature:
Month: Day: Year:

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☒ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Actual weight 24464 Kg per John Gregory of Recon services BB 7/27/17
Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number:
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month: Day: Year:

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
PCB			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Mike Smith
Signature:
Month: 7 Day: 27 Year: 17

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

Form Approved. OMB No. 2050-0039

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: NYR 000 231 571
2. Page 1 of: 1
3. Emergency Response Phone: 281-250-2646
4. Manifest Tracking Number: 017487541 JJK

GENERATOR

5. Generator's Name and Mailing Address: UNISYS
3199 PILOT KNOB ROAD
EAGAN, MN 55121
Generator's Phone:

Generator's Site Address (if different than mailing address)
777 SOUTH MAIN ST
ELMIRA, NY 14904

6. Transporter 1 Company Name: ~~PAGE E.T.C. INC~~ (AR) U.S. BULK TRANSPORT, INC.
U.S. EPA ID Number: PAD987347515 (AR) ~~NYD 986 969 947~~

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address: WAYNE DISPOSAL, INC. SITE #2 LANDFIL
49350 N I-94 SERVICE DRIVE
BELLEVILLE, MI 48111
Facility's Phone: (800) 592-5489
U.S. EPA ID Number: MID 048 090 633

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. UN3432, Polychlorinated biphenyls, solid, 9, PGII, ERG #171	X x 1	DT	EST 20,800	K	PCB1
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. G170001WDI / Soil Contaminated with PCBs / Storage Start Date: 7-26-17
Unique Container ID: 90925 [EPA XDL-1642]
SAMPLE #B15

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: AS AGENT FOR UNISYS: ASHWIN RANNA
Signature: Ashwin
Month: 07 Day: 26 Year: 17

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Rick Roberts Sr
Signature:
Month: 7 Day: 26 Year: 17

Transporter 2 Printed/Typed Name
Signature
Month: Day: Year:

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☒ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Actual weight 23582 K calc per John Geagel Reconserves BB 7/27/17
Manifest Reference Number:
U.S. EPA ID Number

18b. Alternate Facility (or Generator)
Facility's Phone:
Month: Day: Year:
18c. Signature of Alternate Facility (or Generator)

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. PCB 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Connie Wilkes
Signature:
Month: 7 Day: 27 Year: 17

DESIGNATED FACILITY TO GENERATOR

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

TR# 2611

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: NYR 000 231 571
2. Page 1 of: 1
3. Emergency Response Phone: 281-250-2640
4. Manifest Tracking Number: 017487535 JJK

GENERATOR

5. Generator's Name and Mailing Address: UNISYS
3199 PILOT KNOB ROAD
EAGAN, MN 55121
Generator's Phone:

Generator's Site Address (if different than mailing address)
777 SOUTH MAIN ST
ELMIRA, NY 14904
U.S. EPA ID Number: NYD 986 969 947

6. Transporter 1 Company Name: PAGE E.T.C. INC
U.S. EPA ID Number:

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address: WAYNE DISPOSAL, INC. SITE #2 LANDFII
49350 N I-94 SERVICE DRIVE
BELLEVILLE, MI 48111
Facility's Phone: (800) 592-5489
U.S. EPA ID Number: MID 048 090 633

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. UN3432, Polychlorinated biphenyls, solid, 9, PGII, ERG #171	XX1	DT	EST 20,800	K	PCB1
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. G170001WDI / Soil Contaminated with PCBs / Storage Start Date: 7-26-17
Unique Container ID: 1217 IPA PT 6866 JJ
SAMPLE #B15

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: AS AGENT FOR UNISYS: ASHWIN RANNA
Signature: Ashwin
Month: 07 Day: 26 Year: 17

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Charlie Ewins
Signature: Charlie Ewins
Month: 07 Day: 26 Year: 17

Transporter 2 Printed/Typed Name:
Signature:
Month: Day: Year:

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☒ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
actual weight 25082 K dk per John Gregory w/ Recon Services BB 7/27/17
Manifest Reference Number:
U.S. EPA ID Number:

18b. Alternate Facility (or Generator)
Facility's Phone:
Month: Day: Year:

18c. Signature of Alternate Facility (or Generator)

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. PCB 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Mike Sevak
Signature:
Month: 7 Day: 27 Year: 17

DESIGNATED FACILITY TO GENERATOR

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

157 89020

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UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: NYR 000 231 571
2. Page 1 of: 1
3. Emergency Response Phone: 281-250-2646
4. Manifest Tracking Number: 017487546 JJK

GENERATOR

5. Generator's Name and Mailing Address: UNISYS
3199 PILOT KNOB ROAD
EAGAN, MN 55121
Generator's Phone:

Generator's Site Address (if different than mailing address)
777 SOUTH MAIN ST
ELMIRA, NY 14904

6. Transporter 1 Company Name: ~~PAGE E.T.C. INC~~ US BULK TRANSPORT, INC
U.S. EPA ID Number: PAD987347515 ~~NYD 986 868 947~~

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address: WAYNE DISPOSAL, INC. SITE #2 LANDFIL
49350 N I-94 SERVICE DRIVE
BELLEVILLE, MI 48111
Facility's Phone: (800) 592-5489
U.S. EPA ID Number: MID 048 090 633

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. UN3432, Polychlorinated biphenyls, solid, 9, PGII, ERG #171	XX1	DT	EST 20,800	K	PCB1
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. G170001WDI / Soil Contaminated with PCBs / Storage Start Date: 7-27-17
Unique Container ID: 157-A EPA ~~Waste~~ PT2158MJ
SAMPLE #B15

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: AS AGENT FOR UNISYS: JULIANNE PAYNE
Signature
Month 07 Day 27 Year 17

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Say L. Fahey
Signature
Month 07 Day 27 Year 17

Transporter 2 Printed/Typed Name
Signature
Month Day Year

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☒ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Actual weight 24727k ok per John Geary w/ Recon Services BB 7/28/17
Manifest Reference Number:
U.S. EPA ID Number

18b. Alternate Facility (or Generator)
Facility's Phone:
Month Day Year

18c. Signature of Alternate Facility (or Generator)

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
PCB			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name
Signature
Month 7 Day 28 Year 17

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: NYR 000 231 571
2. Page 1 of: 1
3. Emergency Response Phone: 281-250-2646
4. Manifest Tracking Number: 017487547 JJK

GENERATOR

5. Generator's Name and Mailing Address: UNISYS
3199 PILOT KNOB ROAD
EAGAN, MN 55121
Generator's Phone:

Generator's Site Address (if different than mailing address)
777 SOUTH MAIN ST
ELMIRA, NY 14904

6. Transporter 1 Company Name: ~~PAGE E.T.C. INC~~ US BULK TRANSPORT, INC
U.S. EPA ID Number: PAD987347515 ~~NYD 986 969 947~~

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address: WAYNE DISPOSAL, INC. SITE #2 LANDFIL
49350 N I-94 SERVICE DRIVE
BELLEVILLE, MI 48111
(800) 592-5489
Facility's Phone:
U.S. EPA ID Number: MID 048 090 633

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. UN3432, Polychlorinated biphenyls, solid, 9, PGII, ERG #171	XX1	DT	EST 20,800	K	PCB1
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. G170001WDI / Soil Contaminated with PCBs / Storage Start Date: 7-27-17
Unique Container ID: [92.2 EPA XZ-C6658]
SAMPLE #B15

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: AS AGENT FOR UNISYS: JULIANNE PAYNE
Signature:
Month: 07 Day: 27 Year: 17

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: William J. Schaffner
Signature:
Month: 7 Day: 27 Year: 17

Transporter 2 Printed/Typed Name
Signature
Month Day Year

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☒ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
actual weight 24627 kg ok per John Greaiyu Reconsigned 8/31/2017
Manifest Reference Number:
U.S. EPA ID Number

18b. Alternate Facility (or Generator)
Facility's Phone:
Month Day Year

18c. Signature of Alternate Facility (or Generator)

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
PCB			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Mike Strain
Signature:
Month: 7 Day: 28 Year: 17

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: NYR 000 231 571
2. Page 1 of: 1
3. Emergency Response Phone: 281-250-2646
4. Manifest Tracking Number: 017487543 JJK

GENERATOR

5. Generator's Name and Mailing Address: UNISYS
3199 PILOT KNOB ROAD
EAGAN, MN 55121
Generator's Phone:

Generator's Site Address (if different than mailing address)
777 SOUTH MAIN ST
ELMIRA, NY 14904

6. Transporter 1 Company Name: ~~PAGE E.T.C. INC~~ (AR) US. BULK TRANSPORT, INC.
U.S. EPA ID Number: ~~PAD987347515~~ (AR) ~~NYD 986 969 047~~

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address: WAYNE DISPOSAL, INC. SITE #2 LANDFII
49350 N I-94 SERVICE DRIVE
BELLEVILLE, MI 48111
Facility's Phone: (800) 592-5489
U.S. EPA ID Number: MID 048 090 633

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. UN3432, Polychlorinated biphenyls, solid, 9, PGII, ERG #171	XX1	DT	EST 20,800	K	PCB1
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. G170001WDI / Soil Contaminated with PCBs / Storage Start Date: 7-26-17
Unique Container ID: 90908 [PA XGA 3543]
SAMPLE #B15

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: AS AGENT FOR UNISYS: ASHWIN RANNA
Signature: Ashwin
Month: 07 Day: 26 Year: 17

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Joseph DeMarco
Signature
Month: 07 Day: 26 Year: 17

Transporter 2 Printed/Typed Name
Signature
Month Day Year

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☒ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
actual weight 17718K ok per [illegible] John Geary W/ Recon Services BB 7/28/17
Manifest Reference Number:
U.S. EPA ID Number

18b. Alternate Facility (or Generator)
Facility's Phone:
Month Day Year

18c. Signature of Alternate Facility (or Generator)

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
PCB			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: [illegible]
Signature
Month: 7 Day: 27 Year: 17

DESIGNATED FACILITY TO GENERATOR

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

PAGE 9790

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
NYR 000 231 571	1	281-250-2646	017487501 JJK

GENERATOR

5. Generator's Name and Mailing Address: UNISYS
3199 PILOT KNOB ROAD
EAGAN, MN 55121
Generator's Phone:

Generator's Site Address (if different than mailing address)
777 SOUTH MAIN ST
ELMIRA, NY 14904

6. Transporter 1 Company Name: PAGE E.T.C. INC
U.S. EPA ID Number: NYD 986 969 947

7. Transporter 2 Company Name
U.S. EPA ID Number:

8. Designated Facility Name and Site Address: WAYNE DISPOSAL, INC. SITE #2 LANDFII
49350 N I-94 SERVICE DRIVE
BELLEVILLE, MI 48111
(800) 592-5489
Facility's Phone:
U.S. EPA ID Number: MID 048 090 633

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. UN3432, Polychlorinated biphenyls, solid, 9, PGII, ERG #171	XX1	DT	EST 20,800	K	PCB1
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. G170001WDI / Soil Contaminated with PCBs / Storage Start Date: 7-19-17
Unique Container ID: D8123A
SAMPLE ID # B15

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: AS AGENT FOR UNISYS: ASHWIN RANNA
Signature: Ashwin
Month: 07 Day: 19 Year: 2017

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: TODD KOFFLER
Signature: TK
Month: 07 Day: 19 Year: 17

Transporter 2 Printed/Typed Name
Signature
Month: Day: Year:

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month: Day: Year:

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
PCB			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Chris Grisson
Signature
Month: 7 Day: 20 Year: 17

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: NYR 000 231 571
2. Page 1 of: 1
3. Emergency Response Phone: 281-250-2646
4. Manifest Tracking Number: 017538577 JJK

GENERATOR

5. Generator's Name and Mailing Address: UNISYS
3199 PILOT KNOB ROAD
EAGAN, MN 55121
Generator's Phone:

Generator's Site Address (if different than mailing address)
777 SOUTH MAIN ST
ELMIRA, NY 14904

6. Transporter 1 Company Name: PAGE E.T.C. INC
U.S. EPA ID Number: NYD 986 969 947

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address: WAYNE DISPOSAL, INC. SITE #2 LANDFII
49350 N I-94 SERVICE DRIVE
BELLEVILLE, MI 48111
Facility's Phone: (800) 592-5489
U.S. EPA ID Number: MID 048 090 633

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. UN3432, Polychlorinated biphenyls, solid, 9, PGII, ERG #171	001	DT	EST 19,958	K	PCB1
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. G170001WDI / Soil Contaminated with PCBs / Storage Start Date: 7-19-17
Unique Container ID: D7624
SAMPLE # 5513

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: AS AGENT FOR UNISYS: ASHWIN RANNA
Signature: Ashwin
Month: 07 Day: 19 Year: 2017

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Mathew LaNoce
Signature
Month: 07 Day: 19 Year: 2017

Transporter 2 Printed/Typed Name
Signature
Month: Day: Year:

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month: Day: Year:

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
PCB			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Chris Grissom
Signature
Month: 7 Day: 20 Year: 17

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: NYR 000 231 571
2. Page 1 of: 1
3. Emergency Response Phone: 281-250-2646
4. Manifest Tracking Number: 017538575 JJK

GENERATOR

5. Generator's Name and Mailing Address: UNISYS
3199 PILOT KNOB ROAD
EAGAN, MN 55121
Generator's Phone:

Generator's Site Address (if different than mailing address)
777 SOUTH MAIN ST
ELMIRA, NY 14904

6. Transporter 1 Company Name: PAGE E.T.C. INC
U.S. EPA ID Number: NYD 986 969 947

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address: WAYNE DISPOSAL, INC. SITE #2 LANDFILL
49350 N I-94 SERVICE DRIVE
BELLEVILLE, MI 48111
Facility's Phone: (800) 592-5489
U.S. EPA ID Number: MID 048 090 633

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. UN3432, Polychlorinated biphenyls, solid, 9, PGII, ERG #171	XX1	DT	Est 19,158 lbs	K	PCB1
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. G170001WDI / Soil Contaminated with PCBs / Storage Start Date: 07-19-2017
Unique Container ID: DB160
SAMPLE #11 5513

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: AGENT FOR UNISYS: ASHWIN RANNA
Signature:
Month: 07 Day: 19 Year: 2017

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: William H Muckel
Signature: William H Muckel
Month: 7 Day: 19 Year: 17
Transporter 2 Printed/Typed Name:
Signature:
Month: Day: Year:

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
18b. Alternate Facility (or Generator)
U.S. EPA ID Number:
Facility's Phone:
18c. Signature of Alternate Facility (or Generator)
Month: Day: Year:

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
PCB			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Chris Gibson
Signature:
Month: 7 Day: 20 Year: 17

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

Page Truck 0455 Trailer 4784

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: NYR 000 231 571
2. Page 1 of: 1
3. Emergency Response Phone: 281-250-2646
4. Manifest Tracking Number: 017538579 JJK

GENERATOR

5. Generator's Name and Mailing Address: UNISYS
3199 PILOT KNOB ROAD
EAGAN, MN 55121
Generator's Phone:

Generator's Site Address (if different than mailing address)
777 SOUTH MAIN ST
ELMIRA, NY 14904

6. Transporter 1 Company Name: PAGE E.T.C. INC
U.S. EPA ID Number: NYD 986 969 947

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address: WAYNE DISPOSAL, INC. SITE #2 LANDFILL
49350 N I-94 SERVICE DRIVE
BELLEVILLE, MI 48111
Facility's Phone: (800) 592-5489
U.S. EPA ID Number: MID 048 090 633

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. UN3432, Polychlorinated biphenyls, solid, 9, PGII, ERG #171	001	DT	EST. 19,958	K	PCB1
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. G170091VADI / Soil Contaminated with PCBs / Storage Start Date: 07-19-17
Unique Container ID: A784
SAMPLE # 5513

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: AS AGENT FOR UNISYS: ASHWIN RANNA
Signature: Ashwin
Month: 07 Day: 19 Year: 2017

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: John Schieble
Signature: John Schieble
Month: 07 Day: 19 Year: 17

Transporter 2 Printed/Typed Name
Signature
Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
PCB			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name
Signature
Month Day Year 7 20 17

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

102 80540

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UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: NYR 000 231 571
2. Page 1 of: 1
3. Emergency Response Phone: 281-250-2646
4. Manifest Tracking Number: 017487507 JJK

GENERATOR

5. Generator's Name and Mailing Address: UNISYS
3199 PILOT KNOB ROAD
EAGAN, MN 55121
Generator's Phone: (AR)

Generator's Site Address (if different than mailing address)
777 SOUTH MAIN ST
ELMIRA, NY 14904

6. Transporter 1 Company Name: ~~PAGE E.T.C. INC~~ U.S. BULK TRANSPORT, INC.
U.S. EPA ID Number: ~~MAD987347515~~ ~~NYD 986 969 947~~ (AR)

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address: WAYNE DISPOSAL, INC. SITE #2 LANDFII
49350 N I-94 SERVICE DRIVE
BELLEVILLE, MI 48111
Facility's Phone: (800) 592-5489
U.S. EPA ID Number: MID 048 090 633

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. UN3432, Polychlorinated biphenyls, solid, 9, PGII, ERG #171	XX1	DT	EST 20,800	K	PCB1
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. G170001WDI / Soil Contaminated with PCBs / Storage Start Date: 7-20-17
Unique Container ID: 102 A
SAMPLE B15

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: AS AGENT FOR UNISYS: ASHWIN RANNA
Signature: Ashwin
Month: 07 Day: 20 Year: 17

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Josh Taylor
Signature: John Taylor
Month: 7 Day: 20 Year: 17

Transporter 2 Printed/Typed Name:
Signature:
Month: Day: Year:

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☒ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Actual weight 23182 Kgs per John Granger Recon Services BOL 7/24/17
Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number:
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month: Day: Year:

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
PCB			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name:
Signature:
Month: 7 Day: 21 Year: 17

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

7088

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: NYR 000 231 571
2. Page 1 of: 1
3. Emergency Response Phone: 281-250-2646
4. Manifest Tracking Number: 017538573 JJK

GENERATOR

5. Generator's Name and Mailing Address: UNISYS
3199 PILOT KNOB ROAD
EAGAN, MN 55121
Generator's Phone:

Generator's Site Address (if different than mailing address)
777 SOUTH MAIN ST
ELMIRA, NY 14904

6. Transporter 1 Company Name: PAGE E.T.C. INC
U.S. EPA ID Number: NYD 986 969 947

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address: WAYNE DISPOSAL, INC. SITE #2 LANDFII
49350 N I-94 SERVICE DRIVE
BELLEVILLE, MI 48111
Facility's Phone: (800) 592-5489
U.S. EPA ID Number: MID 048 090 633

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. UN3432, Polychlorinated biphenyls, solid, 9, PGII, ERG #171	XM	TT	Est 19,958	K	PCB1
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. G170001WDI / Soil Contaminated with PCBs / Storage Start Date: 7-19-17
Unique Container ID: 6138
SAMPLE # SS13

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: As Agent for Unisys ASHWIN RANNA
Signature: Ashwin
Month: 7 Day: 19 Year: 2017

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Ronald Hensley
Signature:
Month: 7 Day: 19 Year: 17

Transporter 2 Printed/Typed Name:
Signature:
Month: Day: Year:

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☒ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
actual weight 23927 kg per John Granger Receiving BB 7/24/17
Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number:
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month: Day: Year:

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
PCB			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Chris Gibson
Signature:
Month: 7 Day: 20 Year: 17

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

TD#2764

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: NYR 000 231 571
2. Page 1 of: 1
3. Emergency Response Phone: 281-250-2646
4. Manifest Tracking Number: 017538572 JJK

GENERATOR

5. Generator's Name and Mailing Address: UNISYS
3199 PILOT KNOB ROAD
EAGAN, MN 55121
Generator's Phone:

Generator's Site Address (if different than mailing address)
777 SOUTH MAIN ST
ELMIRA, NY 14904

6. Transporter 1 Company Name: PAGE E.T.C. INC
U.S. EPA ID Number: NYD 986 969 947

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address: WAYNE DISPOSAL, INC. SITE #2 LANDFII
49350 N I-94 SERVICE DRIVE
BELLEVILLE, MI 48111
Facility's Phone: (800) 592-5489
U.S. EPA ID Number: MID 048 090 633

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. UN3432, Polychlorinated biphenyls, solid, 9, PGII, ERG #171	xx1	MM FT DT	Est 19,938	K	PCB1
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. G170001WDI / Soil Contaminated with PCBs / Storage Start Date: 7-19-17
Unique Container ID: 16528
SAMPLE # SS13

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: As Agent for Unisys Ashwin Ranna
Signature: Ashwin
Month 7 Day 19 Year 2017

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Mike Montague
Signature: Mike Montague
Month 07 Day 19 Year 17
Transporter 2 Printed/Typed Name
Signature
Month Day Year

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☑ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Actual Weight 23634 Kg per Stelin Georg w/ Recmservices BB 7/21/17
Manifest Reference Number:
18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. PCB 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Chris Gilsom
Signature
Month 7 Day 20 Year 17

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

6315

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
NYR 000 231 571	1	281-250-2696	017538578 JJK

GENERATOR

5. Generator's Name and Mailing Address: UNISYS
3199 PILOT KNOB ROAD
EAGAN, MN 55121
Generator's Phone:

Generator's Site Address (if different than mailing address)
777 SOUTH MAIN ST
ELMIRA, NY 14904

6. Transporter 1 Company Name: PAGE E.T.C. INC
U.S. EPA ID Number: NYD 986 969 947

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address: WAYNE DISPOSAL, INC. SITE #2 LANDFII
49350 N I-94 SERVICE DRIVE
BELLEVILLE, MI 48111
Facility's Phone: (800) 592-5489
U.S. EPA ID Number: MID 048 090 633

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. UN3432, Polychlorinated biphenyls, solid, 9, PGII, ERG #171	001	DT	Est 19,958	K	PCB1
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. G170001WDI / Soil Contaminated with PCBs / Storage Start Date: 07-19-17
Unique Container ID: D-2039
SAMPLE # 5513

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: AS AGENT FOR UNISYS: ASHWIN RANNA
Signature: Ashwin
Month: 07 Day: 19 Year: 2017

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: TRAVIS SCHIEBLE
Signature:
Month: 07 Day: 19 Year: 17

Transporter 2 Printed/Typed Name
Signature
Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☒ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
actual weight 21 [illegible] ck per Jackie Geary w/ Recon services BB 7/24/17
Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
PCB			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name
Signature
Month: 7 Day: 20 Year: 17

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

TRA. 518-N TRL 6262A

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
NYR 000 231 571	1	281-250-2646	017538576 JJK

GENERATOR

5. Generator's Name and Mailing Address: UNISYS
3199 PILOT KNOB ROAD
EAGAN, MN 55121
Generator's Phone:

Generator's Site Address (if different than mailing address)
777 SOUTH MAIN ST
ELMIRA, NY 14904

6. Transporter 1 Company Name: PAGE E.T.C. INC — U.S. EPA ID Number: NYD 986 969 947

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address: WAYNE DISPOSAL, INC. SITE #2 LANDFIL
49350 N I-94 SERVICE DRIVE
BELLEVILLE, MI 48111
Facility's Phone: (800) 592-5489
U.S. EPA ID Number: MID 048 090 633

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. UN3432, Polychlorinated biphenyls, solid, 9, PGII, ERG #171	XX1	TT	EST 19,958	K	PCB1
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. G170001WDI / Soil Contaminated with PCBs / Storage Start Date: 7-19-17
Unique Container ID: 6262
SAMPLE ID # 5513

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: AS AGENT FOR UNISYS: ASHWIN RANNA — Signature: Ashwin — Month: 07 Day: 19 Year: 2017

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: GORDON N SULLIVAN — Signature: [signature] — Month: 07 Day: 19 Year: 17

Transporter 2 Printed/Typed Name — Signature — Month: Day: Year:

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☒ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Actual weight 25809 K vole per Jacki Geoghegan Manifest Reference Number: BB71247

18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month: Day: Year:

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
PCB			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Chris Gibson — Signature: [signature] — Month: 7 Day: 20 Year: 17

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

TR# 2611

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
NYR 000 231 571	1	281-250-2646	017538574 JJK

GENERATOR

5. Generator's Name and Mailing Address
UNISYS
3199 PILOT KNOB ROAD
EAGAN, MN 55121
Generator's Phone:

Generator's Site Address (if different than mailing address)
777 SOUTH MAIN ST
ELMIRA, NY 14904

6. Transporter 1 Company Name
PAGE E.T.C. INC
U.S. EPA ID Number
NYD 986 969 947

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
WAYNE DISPOSAL, INC. SITE #2 LANDFIL
49350 N I-94 SERVICE DRIVE
BELLEVILLE, MI 48111
Facility's Phone: (800) 592-5489
U.S. EPA ID Number
MID 048 090 633

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. UN3432, Polychlorinated biphenyls, solid, 9, PGII, ERG #171	X1	TT	Est 19,958	K	PCB1
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. G170001WDI / Soil Contaminated with PCBs / Storage Start Date: 7-19-17
Unique Container ID: 217
SAMPLE 5513

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: AS AGENT FOR UNISYS: ASHWIN RANNA
Signature: Ashwin
Month 07 Day 19 Year 2017

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Charlie Ewins
Signature: Charlie Ewins
Month 07 Day 19 Year 17

Transporter 2 Printed/Typed Name
Signature
Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☒ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
actual weight 24082K a la per John Georgel Reverse Manifest Reference Number: BB 7/22/17

18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
PCB			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Mike Swan
Signature
Month 7 Day 20 Year 17

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: NYR 000 231 571
2. Page 1 of: 1
3. Emergency Response Phone: 281-250-2646
4. Manifest Tracking Number: 017487511 JJK

GENERATOR

5. Generator's Name and Mailing Address: UNISYS
3199 PILOT KNOB ROAD
EAGAN, MN 55121
Generator's Phone:

Generator's Site Address (if different than mailing address)
777 SOUTH MAIN ST
ELMIRA, NY 14904

6. Transporter 1 Company Name: PAGE E.T.C. INC
U.S. EPA ID Number: NYD 986 969 947

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address: WAYNE DISPOSAL, INC. SITE #2 LANDFIL
49350 N I-94 SERVICE DRIVE
BELLEVILLE, MI 48111
Facility's Phone: (800) 592-5489
U.S. EPA ID Number: MID 048 090 633

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. UN3432, Polychlorinated biphenyls, solid, 9, PGII, ERG #171	XX1	DT	EST 20,800	K	PCB1
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. G170001WDI / Soil Contaminated with PCBs / Storage Start Date: 7-21-17
Unique Container ID: 6515
SAMPLE #B15

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: AS AGENT FOR UNISYS: ASHWIN RANNA
Signature: Ashwin
Month: 07 Day: 21 Year: 2017

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Jeremy Kelly
Signature:
Month: 7 Day: 21 Year: 17

Transporter 2 Printed/Typed Name
Signature
Month: Day: Year:

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☒ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
actual weight 29064 Kelly-Kelly Gorany w/ Recor Services BB 7/21/17
Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator)
Month: Day: Year:

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. PCB 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Mike Swartz
Signature:
Month: 7 Day: 24 Year: 17

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: NYR 000 231 571
2. Page 1 of: 1
3. Emergency Response Phone: 281-250-2646
4. Manifest Tracking Number: 017487520 JJK

GENERATOR

5. Generator's Name and Mailing Address: UNISYS
3199 PILOT KNOB ROAD
EAGAN, MN 55121
Generator's Phone:

Generator's Site Address (if different than mailing address)
777 SOUTH MAIN ST
ELMIRA, NY 14904

6. Transporter 1 Company Name: ~~PAGE E.T.C. INC~~ US BULK TRANSPORT, INC
U.S. EPA ID Number: PAD 987347515 ~~NYD 986 969 047~~

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address: WAYNE DISPOSAL, INC. SITE #2 LANDFIL
49350 N I-94 SERVICE DRIVE
BELLEVILLE, MI 48111
Facility's Phone: (800) 592-5489
U.S. EPA ID Number: MID 048 090 633

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. UN3432, Polychlorinated biphenyls, solid, 9, PGII, ERG #171	XX1	DT	EST 29800	K	PCB1
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. G170001WDI / Soil Contaminated with PCBs / Storage Start Date: 7-22-17
Unique Container ID: 192-2-A
Sample B15

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: AS AGENT FOR UNISYS: ASHWIN RANNA
Signature: Ashwin
Month: 07 Day: 22 Year: 2017

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: William J. Schaffner
Signature:
Month: 7 Day: 22 Year: 17

Transporter 2 Printed/Typed Name
Signature
Month: Day: Year:

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☒ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Actual weight 24582K ok per John Geary w/ Recycle Ives BB 7/24/17
Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month: Day: Year:

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
PCB			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name
Signature
Month: 7 Day: 24 Year: 17

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

157

92580

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: NYR 000 231 571
2. Page 1 of: 1
3. Emergency Response Phone: 281-250-2646
4. Manifest Tracking Number: 017487521 JJK

5. Generator's Name and Mailing Address: UNISYS
3199 PILOT KNOB ROAD
EAGAN, MN 55121
Generator's Phone:

Generator's Site Address (if different than mailing address)
777 SOUTH MAIN ST
ELMIRA, NY 14904

6. Transporter 1 Company Name: ~~PASE E.T.C. INC.~~ U.S. BULK TRANSPORT, INC
U.S. EPA ID Number: PAD987347515 ~~NYD 986 969 947~~

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address: WAYNE DISPOSAL, INC. SITE #2 LANDFII
49350 N I-94 SERVICE DRIVE
BELLEVILLE, MI 48111
Facility's Phone: (800) 592-5489
U.S. EPA ID Number: MID 048 090 633

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. UN3432, Polychlorinated biphenyls, solid, 9, PGII, ERG #171	XX1	DT	EST 29,800	K	PCB1
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. G170001WDI / Soil Contaminated with PCBs / Storage Start Date: 7-22-17
Unique Container ID: 157A
SAMPLE B15

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: AS AGENT FOR UNISYS: ASHWIN RANNA
Signature:
Month: 07 Day: 22 Year: 2017

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: JAY L. FAUCET
Signature:
Month: 07 Day: 22 Year: 17
Transporter 2 Printed/Typed Name:
Signature:
Month: Day: Year:

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☒ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
actual weight 26,509 lbs each per John Geary w/ Recon Services BB 7/24/17
Manifest Reference Number:
18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator)
Month: Day: Year:

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. PCB 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name:
Signature:
Month: 7 Day: 24 Year: 17

DESIGNATED FACILITY TO GENERATOR

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

#176

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
NYR 000 231 571	1	281-250-2646	017487516 JJK

GENERATOR

5. Generator's Name and Mailing Address: UNISYS
3199 PILOT KNOB ROAD
EAGAN, MN 55121
Generator's Phone:

Generator's Site Address (if different than mailing address)
777 SOUTH MAIN ST
ELMIRA, NY 14904

6. Transporter 1 Company Name: ~~PAGE E.T.C. INC~~ (AR) U.S. BULK TRANSPORT, INC — U.S. EPA ID Number: ~~NYD 986 969 947~~ 013987347615

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address: WAYNE DISPOSAL, INC. SITE #2 LANDFIL
49350 N I-94 SERVICE DRIVE
BELLEVILLE, MI 48111
Facility's Phone: (800) 592-5489
U.S. EPA ID Number: MID 048 090 633

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. UN3432, Polychlorinated biphenyls, solid, 9, PGIII/ ERG #171	XX1	DT	EST 20,800	K	PCB1
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. G170001WDI / Soil Contaminated with PCBs / Storage Start Date: 7-21-17
Unique Container ID: 176-B / 227034B
SAMPLE BIS

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: AS AGENT FOR UNISYS: ASHWIN RANNA — Signature: Ashwin — Month: 07 Day: 21 Year: 2017

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Scott E Green — Signature: Scott E Green — Month: 07 Day: 21 Year: 17
Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☒ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
actual weight 23730 lbs per John Geary w/ Rem Services 7/24/17
Manifest Reference Number:
18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
PCB			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Mike Swed — Signature — Month: 7 Day: 24 Year: 17

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

Trucks 179

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	NYR 000 231 571	1	281-250-2646	017487517 JJK

GENERATOR

5. Generator's Name and Mailing Address: UNISYS
3199 PILOT KNOB ROAD
EAGAN, MN 55121
Generator's Phone:

Generator's Site Address (if different than mailing address)
777 SOUTH MAIN ST
ELMIRA, NY 14904

6. Transporter 1 Company Name (AR): ~~PAGE E.T.C. INC~~ U.S. BULK TRANSPORT, INC.
U.S. EPA ID Number (AR): ~~NYD 986 969 947~~ PAD 987347515

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address: WAYNE DISPOSAL, INC. SITE #2 LANDFII
49350 N I-94 SERVICE DRIVE
BELLEVILLE, MI 48111
Facility's Phone: (800) 592-5489
U.S. EPA ID Number: MID 048 090 633

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. UN3432, Polychlorinated biphenyls, solid, 9, PGII, ERG #171	1	DT	EST 2980	K	PCB1
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. G170001WDI / Soil Contaminated with PCBs / Storage Start Date: 7-21-17
Unique Container ID: 179-A [PAXRM 8116]
SAMPLE # B15

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: AS AGENT FOR UNISYS: ASHWIN RANNA
Signature: Ashwin
Month: 07 Day: 21 Year: 2017

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Brian L. Bousic
Signature: Brian L. Bousic
Month: 07 Day: 21 Year: 2017
Transporter 2 Printed/Typed Name
Signature
Month Day Year

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☑ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Actual weight 24,27K lbs per Julia Geanya/Remarkables 8/7/24/17
Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
PCB			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name
Signature
Month: 7 Day: 24 Year: 17

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: NYR 000 231 571
2. Page 1 of: 1
3. Emergency Response Phone: 281-250-2646
4. Manifest Tracking Number: 017487524 JJK

GENERATOR

5. Generator's Name and Mailing Address: UNISYS
3199 PILOT KNOB ROAD
EAGAN, MN 55121
Generator's Phone:

Generator's Site Address (if different than mailing address)
777 SOUTH MAIN ST
ELMIRA, NY 14904

6. Transporter 1 Company Name: ~~PAGE E.T.C. INC~~ US BULK TRANSPORT, INC
U.S. EPA ID Number: PAD987347515 ~~NYD 980 969 047~~

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address: WAYNE DISPOSAL, INC. SITE #2 LANDFIL
49350 N I-94 SERVICE DRIVE
BELLEVILLE, MI 48111
Facility's Phone: (800) 592-5489
U.S. EPA ID Number: MID 048 090 633

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. RQ UN3432, Polychlorinated biphenyls, solid, 9, PGII, ERG #171	XX1	DT	EST 20,800	K	PCB1
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. G170001WDI / Soil Contaminated with PCBs / Storage Start Date: 7-22-17
Unique Container ID: 9123-A XXX
SAMPLE #B15

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: AS AGENT FOR UNISYS: ASHWIN RANNA
Signature: Ashwin
Month: 07 Day: 22 Year: 2017

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: MARK U STRONG
Signature:
Month: 07 Day: 27 Year: 17

Transporter 2 Printed/Typed Name
Signature
Month: Day: Year:

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month: Day: Year:

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
PCB			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name:
Signature:
Month: 7 Day: 24 Year: 17

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: NYR 000 231 571
2. Page 1 of: 1
3. Emergency Response Phone: 281-250-2646
4. Manifest Tracking Number: 017487523 JJK

GENERATOR

5. Generator's Name and Mailing Address: UNISYS
3199 PILOT KNOB ROAD
EAGAN, MN 55121
Generator's Phone:

Generator's Site Address (if different than mailing address)
777 SOUTH MAIN ST
ELMIRA, NY 14904

6. Transporter 1 Company Name: ~~PACE E.T.C. INC~~ U.S BULK TRANSPORT, INC
U.S. EPA ID Number: ~~NYD 980 969 047~~ PAD987347515

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address: WAYNE DISPOSAL, INC. SITE #2 LANDFIL
49350 N I-94 SERVICE DRIVE
BELLEVILLE, MI 48111
Facility's Phone: (800) 592-5489
U.S. EPA ID Number: MID 048 090 633

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. UN3432, Polychlorinated biphenyls, solid, 9, PGII, ERG #171	XX1	DT	Est 20,000	K	PCB1
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. ~~G170001WDI / Soil Contaminated with PCBs / Storage Start Date:~~ 7-22-17
Unique Container ID: 90920 LXG4 9686PAJ
SAMPLE # B15

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: AS AGENT FOR UNISYS: ASHWIN RANNA
Signature: Ashwin
Month: 07 Day: 22 Year: 2017

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Lynn Rublee
Signature:
Month: 7 Day: 22 Year: 17

Transporter 2 Printed/Typed Name
Signature
Month Day Year

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
PCB			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: William Swick
Signature:
Month: 7 Day: 24 Year: 17

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

PAGE 9798

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
NYR 000 231 571	1	281-230-2646	017487519 JJK

GENERATOR

5. Generator's Name and Mailing Address: UNISYS
3199 PILOT KNOB ROAD
EAGAN, MN 55121
Generator's Phone:

Generator's Site Address (if different than mailing address)
777 SOUTH MAIN ST
ELMIRA, NY 14904

6. Transporter 1 Company Name: PAGE E.T.C. INC
U.S. EPA ID Number: NYD 986 969 947

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address: WAYNE DISPOSAL, INC. SITE #2 LANDFIL
49350 N I-94 SERVICE DRIVE
BELLEVILLE, MI 48111
Facility's Phone: (800) 592-5489
U.S. EPA ID Number: MID 048 090 633

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. UN3432, Polychlorinated biphenyls, solid, 9, PGII, ERG #171	XX1	DT	EST 20,800	K	PCB1
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. G170001WDI / Soil Contaminated with PCBs / Storage Start Date: 7-21-17
Unique Container ID: D-8123A
SAMPLE # B15

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: AS AGENT FOR UNISYS: ASHWIN RANNA
Signature: Ashwin
Month: 07 Day: 21 Year: 2017

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: TODD KOFFLER
Signature: TK
Month: 07 Day: 21 Year: 17

Transporter 2 Printed/Typed Name
Signature
Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
PCB			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name
Signature
Month: 7 Day: 24 Year: 17

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

US Bulk 164

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: NYR 000 231 571
2. Page 1 of: 1
3. Emergency Response Phone: 281-250-2646
4. Manifest Tracking Number: 017487522 JJK

GENERATOR

5. Generator's Name and Mailing Address: UNISYS
3199 PILOT KNOB ROAD
EAGAN, MN 55121
Generator's Phone:

Generator's Site Address (if different than mailing address)
777 SOUTH MAIN ST
ELMIRA, NY 14904

6. Transporter 1 Company Name: ~~PAGE E.T.C. INC~~ US Bulk TRANSPORT, INC
U.S. EPA ID Number: ~~NYD 986 969 947~~ PAD987347515

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address: WAYNE DISPOSAL, INC. SITE #2 LANDFIL
49350 N I-94 SERVICE DRIVE
BELLEVILLE, MI 48111
Facility's Phone: (800) 592-5489
U.S. EPA ID Number: MID 048 090 633

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. UN3432, Polychlorinated biphenyls, solid, 9, PGII, ERG #171	XX1	DT	Est 20,800	K	PCB1
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. G170001WDI / Soil Contaminated with PCBs / Storage Start Date: 7-22-17
Unique Container ID: 164-A PA XJS 6772
SAMPLE # B15

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: AS AGENT FOR UNISYS: ASHWIN RANNA
Signature: Ashwin
Month: 07 Day: 22 Year: 2017

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Michael Fehr
Signature:
Month: 07 Day: 22 Year: 2017

Transporter 2 Printed/Typed Name:
Signature:
Month: Day: Year:

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number:
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month: Day: Year:

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
PCB			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name:
Signature:
Month: Day: Year:

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: NYR 000 231 571
2. Page 1 of: 1
3. Emergency Response Phone: 281-250-2646
4. Manifest Tracking Number: 017487518 JJK

GENERATOR

5. Generator's Name and Mailing Address: UNISYS
3199 PILOT KNOB ROAD
EAGAN, MN 55121
Generator's Phone:

Generator's Site Address (if different than mailing address)
777 SOUTH MAIN ST
ELMIRA, NY 14904

6. Transporter 1 Company Name: PAGE E.T.C. INC
U.S. EPA ID Number: NYD 986 969 947

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address: WAYNE DISPOSAL, INC. SITE #2 LANDFIL
49350 N I-94 SERVICE DRIVE
BELLEVILLE, MI 48111
Facility's Phone: (800) 592-5489
U.S. EPA ID Number: MID 048 090 633

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. UN3432, Polychlorinated biphenyls, solid, 9, PGII, ERG #171	XX1	DT	EST 20,800	K	PCB1
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. G170001WDI / Soil Contaminated with PCBs / Storage Start Date: 7-21-17
Unique Container ID: D-7634
SAMPLE # B15

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: AS AGENT FOR UNISYS: ASHWIN RANVA
Signature: Ashwin
Month: 07 Day: 21 Year: 2017

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Mathew LaVoie
Signature:
Month: 07 Day: 21 Year: 2017

Transporter 2 Printed/Typed Name:
Signature:
Month: Day: Year:

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number:
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month: Day: Year:

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
PCB			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Connie Miller
Signature:
Month: 7 Day: 24 Year: 17

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

3056/9651 8064D

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: NYR 000 231 571
2. Page 1 of: 1
3. Emergency Response Phone: 281-250-2696
4. Manifest Tracking Number: 017487506 JJK

GENERATOR

5. Generator's Name and Mailing Address: UNISYS
3199 PILOT KNOB ROAD
EAGAN, MN 55121
Generator's Phone:

Generator's Site Address (if different than mailing address)
777 SOUTH MAIN ST
ELMIRA, NY 14904

6. Transporter 1 Company Name: ~~PAGE E.T.C. INC~~ U.S. BULK TRANSPORT, INC. (AR) PAGE E.T.C. INC (AR)
U.S. EPA ID Number: ~~NYD 986 969 947~~ ~~PAD 987 34 1515~~ NYD 986 969 947

7. Transporter 2 Company Name
U.S. EPA ID Number: NYD 986 969 947

8. Designated Facility Name and Site Address: WAYNE DISPOSAL, INC. SITE #2 LANDFIL
49350 N I-94 SERVICE DRIVE
BELLEVILLE, MI 48111
Facility's Phone: (800) 592-5489
U.S. EPA ID Number: MID 048 090 633

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. UN3432, Polychlorinated biphenyls, solid, 9, PGII, ERG #171	XX 1	DT	EST 20,800	K	PCB1
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. G170001WDI / Soil Contaminated with PCBs / Storage Start Date: 7-20-17
Unique Container ID: D-9651
SAMPLE BIS

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: AS AGENT FOR UNISYS: ASHWIN RANNA
Signature: Ashwin
Month 07 Day 20 Year 2017

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Mike Clark
Signature: Mike Clark
Month 7 Day 20 Year 17
Transporter 2 Printed/Typed Name
Signature
Month Day Year

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. PCB 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name
Signature
Month 7 Day 21 Year 17

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: NYR 000 231 571
2. Page 1 of: 1
3. Emergency Response Phone: 281-250-2646
4. Manifest Tracking Number: 017487502 JJK

GENERATOR

5. Generator's Name and Mailing Address: UNISYS
3199 PILOT KNOB ROAD
EAGAN, MN 55121
Generator's Phone:

Generator's Site Address (if different than mailing address)
777 SOUTH MAIN ST
ELMIRA, NY 14904

6. Transporter 1 Company Name (AR): ~~PAGE E.T.C. INC~~ US. BULK TRANSPORT, INC
U.S. EPA ID Number: ~~NYD 986 969 947~~ (AR) ~~MAD 987 317 515~~

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address: WAYNE DISPOSAL, INC. SITE #2 LANDFII
49350 N I-94 SERVICE DRIVE
BELLEVILLE, MI 48111
Facility's Phone: (800) 592-5489
U.S. EPA ID Number: MID 048 090 633

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. UN3432, Polychlorinated biphenyls, solid, 9, PGII, ERG #171	XX1	DT	EST 20,800	K	PCB1
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. G170001WDI / Soil Contaminated with PCBs / Storage Start Date: 7-20-17
Unique Container ID: 90925
SAMPLE # B15

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: AS AGENT FOR UNISYS: ASHWIN RANNA
Signature: Ashwin
Month: 07 Day: 20 Year: 2017

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: KICK ROBERTS SR
Signature:
Month: 07 Day: 20 Year: 2017
Transporter 2 Printed/Typed Name:
Signature:
Month: Day: Year:

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator)
Month: Day: Year:

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. PCB 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Connie Walker
Signature:
Month: 7 Day: 21 Year: 17

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

#123

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
NYR 000 231 571	1	281-250-2646	017487508 JJK

GENERATOR

5. Generator's Name and Mailing Address
UNISYS
3199 PILOT KNOB ROAD
EAGAN, MN 55121
Generator's Phone:

Generator's Site Address (if different than mailing address)
777 SOUTH MAIN ST
ELMIRA, NY 14904

6. Transporter 1 Company Name
~~PAGE E.T.C. INC~~ (AR) U.S. BULK TRANSPORT, INC.

U.S. EPA ID Number
(AR) PAD 987 ~~NYD 986 960 947~~ 247515

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address
WAYNE DISPOSAL, INC. SITE #2 LANDFII
49350 N I-94 SERVICE DRIVE
BELLEVILLE, MI 48111
Facility's Phone: (800) 592-5489

U.S. EPA ID Number
MID 048 090 633

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. ~~X~~ UN3432, Polychlorinated biphenyls, solid, 9, PGIII ERG #171	XX1	DT	EST 20800	K	PCB1
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. G170001WDI / Soil Contaminated with PCBs / Storage Start Date: 7-20-17
Unique Container ID: 123A
SAMPLE BIS

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: AS AGENT FOR UNISYS: ASHWIN RANNA
Signature: Ashwin
Month 07 Day 20 Year 2017

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: MARK STRONG
Signature:
Month 07 Day 20 Year 17

Transporter 2 Printed/Typed Name:
Signature:
Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
PCB			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name:
Signature:
Month 7 Day 21 Year 17

DESIGNATED FACILITY TO GENERATOR

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: NYR 000 231 571
2. Page 1 of: 1
3. Emergency Response Phone: 281-250-2646
4. Manifest Tracking Number: 017487503 JJK

GENERATOR

5. Generator's Name and Mailing Address: UNISYS
3199 PILOT KNOB ROAD
EAGAN, MN 55121
Generator's Phone:

Generator's Site Address (if different than mailing address)
777 SOUTH MAIN ST
ELMIRA, NY 14904

6. Transporter 1 Company Name: ~~PAGE E.T.C. INC~~ U.S. BULK TRANSPORT, INC
U.S. EPA ID Number: ~~NYD 986 969 947~~

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address: WAYNE DISPOSAL, INC. SITE #2 LANDFIL
49350 N I-94 SERVICE DRIVE
BELLEVILLE, MI 48111
Facility's Phone: (800) 592-5489
U.S. EPA ID Number: MID 048 090 633

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. UN3432, Polychlorinated biphenyls, solid, 9, PGII, ERG #171	X×1	DT	EST 20,800	K	PCB1
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. G170001WDI / Soil Contaminated with PCBs / Storage Start Date: 7-20-17
Unique Container ID: 198-B
SAMPLE #B15

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: AS AGENT FOR UNISYS: ASHWIN RANNA
Signature: Ashwin
Month: 07 Day: 20 Year: 2017

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Kirk Roberts Sr Dennis Bailey
Signature
Month: 7 Day: 20 Year: 17
Transporter 2 Printed/Typed Name
Signature
Month Day Year

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. PCB 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name
Signature
Month Day Year

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: NYR 000 231 571
2. Page 1 of: 1
3. Emergency Response Phone: 281-250-2646
4. Manifest Tracking Number: 017487509 JJK

GENERATOR

5. Generator's Name and Mailing Address: UNISYS
3199 PILOT KNOB ROAD
EAGAN, MN 55121
Generator's Phone:

Generator's Site Address (if different than mailing address)
777 SOUTH MAIN ST
ELMIRA, NY 14904

6. Transporter 1 Company Name: ~~PAGE E.T.C. INC~~ U.S. BULK TRANSPORT
U.S. EPA ID Number: ~~NYD 986 969 947~~ 940873475 15

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address: WAYNE DISPOSAL, INC. SITE #2 LANDFIL
49350 N I-94 SERVICE DRIVE
BELLEVILLE, MI 48111
Facility's Phone: (800) 592-5489
U.S. EPA ID Number: MID 048 090 633

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. UN3432, Polychlorinated biphenyls, solid, 9, PGII, ERG #171	XX1	DT	EST 20,800	K	PCB1
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. 617001WDI / Soil Contaminated with PCBs / Storage Start Date: 7-20-17
Unique Container ID: A831221
SAMPLE - BIS

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: AS AGENT FOR UNISYS: ASHWIN RANNA
Signature: Ashwin
Month: 07 Day: 20 Year: 2017

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: TOM BONAMO
Signature: Tom Bonamo
Month: 7 Day: 20 Year: 17

Transporter 2 Printed/Typed Name
Signature
Month: Day: Year:

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
U.S. EPA ID Number

18b. Alternate Facility (or Generator)
Facility's Phone:
18c. Signature of Alternate Facility (or Generator)
Month: Day: Year:

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
PCB			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Chris Grissom
Signature:
Month: 7 Day: 21 Year: 17

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

-78440- 6315

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
NYR 000 231 571	1	281-250-2646	017487512 JJK

GENERATOR

5. Generator's Name and Mailing Address UNISYS
3199 PILOT KNOB ROAD
EAGAN, MN 55121
Generator's Phone:

Generator's Site Address (if different than mailing address)
777 SOUTH MAIN ST
ELMIRA, NY 14904

6. Transporter 1 Company Name
PAGE E.T.C. INC
U.S. EPA ID Number
NYD 986 969 947

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address WAYNE DISPOSAL, INC. SITE #2 LANDFIL
49350 N I-94 SERVICE DRIVE
BELLEVILLE, MI 48111
Facility's Phone: (800) 592-5489
U.S. EPA ID Number
MID 048 090 633

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. UN3432, Polychlorinated biphenyls, solid, 9, PGII, ERG #171	X x 1	DT	EST 20,800	K	PCB1
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. G170001WDI / Soil Contaminated with PCBs / Storage Start Date: 7-21-17
Unique Container ID: D-2039
SAMPLE #B15

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: AS AGENT FOR UNISYS: ASHWIN RANNA
Signature: Ashwin
Month: 07 Day: 21 Year: 2017

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Fred Schiebe
Signature:
Month: 07 Day: 21 Year: 17
Transporter 2 Printed/Typed Name:
Signature:
Month: Day: Year:

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
18b. Alternate Facility (or Generator) U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) Month: Day: Year:

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
PCB			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name:
Signature:
Month: 7 Day: 24 Year: 17

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

Page 2 Truck # 0455 Trailer 4784

- 79000 -

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: NYR 000 231 571
2. Page 1 of: 1
3. Emergency Response Phone: 281-250-2646
4. Manifest Tracking Number: 017487513 JJK

GENERATOR

5. Generator's Name and Mailing Address: UNISYS
3199 PILOT KNOB ROAD
EAGAN, MN 55121
Generator's Phone:

Generator's Site Address (if different than mailing address)
777 SOUTH MAIN ST
ELMIRA, NY 14904

6. Transporter 1 Company Name: PAGE E.T.C. INC
U.S. EPA ID Number: NYD 986 969 947

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address: WAYNE DISPOSAL, INC. SITE #2 LANDFII
49350 N I-94 SERVICE DRIVE
BELLEVILLE, MI 48111
Facility's Phone: (800) 592-5489
U.S. EPA ID Number: MID 048 090 633

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. UN3432, Polychlorinated biphenyls, solid, 9, PGII, ERG #171	XX1	DT	EST 20,800	K	PCB1
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. G170001WDI / Soil Contaminated with PCBs / Storage Start Date: 7-21-17
Unique Container ID: 4784
SAMPLE BIS

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: AS AGENT FOR UNISYS: ASHWIN RANNA
Signature: [signature]
Month: 07 Day: 21 Year: 2017

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: John Schieble
Signature: John Schieble
Month: 7 Day: 21 Year: 17

Transporter 2 Printed/Typed Name:
Signature:
Month: Day: Year:

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number:
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month: Day: Year:

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
PCB			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Mike Smith
Signature: [signature]
Month: 7 Day: 24 Year: 17

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

Truck # 197

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
NYR 000 231 571	1	281-250-2646	017487515 JJK

GENERATOR

5. Generator's Name and Mailing Address: UNISYS
3199 PILOT KNOB ROAD
EAGAN, MN 55121
Generator's Phone:

Generator's Site Address (if different than mailing address)
777 SOUTH MAIN ST
ELMIRA, NY 14904

6. Transporter 1 Company Name: ~~PAGE E.I.C. INC~~ U.S. BULK TRANSPORT, INC. (AR)
U.S. EPA ID Number: ~~PAD 987347616~~ (AR) ~~NYD 986 969 847~~

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address: WAYNE DISPOSAL, INC. SITE #2 LANDFIL
49350 N I-94 SERVICE DRIVE
BELLEVILLE, MI 48111
Facility's Phone: (800) 592-5489
U.S. EPA ID Number: MID 048 090 633

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. UN3432, Polychlorinated biphenyls, solid, 9, PGIII ERG #171	XX 1	DT	EST 20,800	K	PCB1
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
~~1. G170001WDI / Soil Contaminated with PCBs / Storage Start Date:~~ 7-21-17
Unique Container ID: 197-A RQ RA
SAMPLE # B15

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: AGENT FOR UNISYS: ASHWIN RANNA
Signature: Ashwin
Month 07 Day 21 Year 17

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Randy Akin
Signature
Month 07 Day 21 Year 17
Transporter 2 Printed/Typed Name
Signature
Month Day Year

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
PCB			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name
Signature
Month Day Year 7 24 17

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: NYR 000 231 571
2. Page 1 of: 1
3. Emergency Response Phone: 281-250-2646
4. Manifest Tracking Number: 017487510 JJK

GENERATOR

5. Generator's Name and Mailing Address: UNISYS
3199 PILOT KNOB ROAD
EAGAN, MN 55121
Generator's Phone:

Generator's Site Address (if different than mailing address)
777 SOUTH MAIN ST
ELMIRA, NY 14904

6. Transporter 1 Company Name: ~~PAGE E.T.C. INC~~ U.S. BULK TRANSPORT, INC.
U.S. EPA ID Number: ~~NYD 986 969 947~~ PAD 987347515

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address: WAYNE DISPOSAL, INC. SITE #2 LANDFIL
49350 N I-94 SERVICE DRIVE
BELLEVILLE, MI 48111
Facility's Phone: (800) 592-5489
U.S. EPA ID Number: MID 048 090 633

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. UN3432, Polychlorinated biphenyls, solid, 9, PGII, ERG #171	XX1	DT	EST 20,800	K	PCB1
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. G170001WDI / Soil Contaminated with PCBs / Storage Start Date: 7-21-17
Unique Container ID: 2377C8,343A
SAMPLE #B15

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: AS AGENT FOR UNISYS: ASHWIN RANNA
Signature: Ashwin
Month: 07 Day: 21 Year: 2017

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: DAVID TOWNSEND
Signature
Month: 7 Day: 21 Year: 17

Transporter 2 Printed/Typed Name
Signature
Month Day Year

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
PCB			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: CHAS GLISSON
Signature
Month: 7 Day: 24 Year: 17

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

TK# 1276

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
NYR 000 231 571	1	281-250-2646	017487527 JJK

GENERATOR

5. Generator's Name and Mailing Address: UNISYS
3199 PILOT KNOB ROAD
EAGAN, MN 55121
Generator's Phone:

Generator's Site Address (if different than mailing address)
777 SOUTH MAIN ST
ELMIRA, NY 14904

6. Transporter 1 Company Name: ~~PAGE E.T.C. INC~~ US BULK TRANSPORT, INC
U.S. EPA ID Number: ~~PAD987347511~~ NYD 986 969 947

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address: WAYNE DISPOSAL, INC. SITE #2 LANDFIL
49350 N I-94 SERVICE DRIVE
BELLEVILLE, MI 48111
Facility's Phone: (800) 592-5489
U.S. EPA ID Number: MID 048 090 633

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. UN3432, Polychlorinated biphenyls, solid, 9, PGII, ERG #171	XX1	DT	EST 29,800	K	PCB1
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. G170001WDI / Soil Contaminated with PCBs / Storage Start Date: 7-24-17
Unique Container ID: PT 854A32 1276-A
SAMPLE BIS

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: As Agent for Unisys: ASHWIN RANNA
Signature: Ashwin
Month: 07 Day: 24 Year: 17

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: FRANK ZALLO
Signature: Frank Zallo
Month: 07 Day: 24 Year: 17
Transporter 2 Printed/Typed Name
Signature
Month: Day: Year:

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☒ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Actual weight 23955K calc per John Geary - Remedial Construction 8/3/26/17
Manifest Reference Number:
18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator)
Month: Day: Year:

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
PCB			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Connie Miller
Signature
Month: 7 Day: 25 Year: 17

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: NYR 000 231 571
2. Page 1 of: 1
3. Emergency Response Phone: 281-250-2646
4. Manifest Tracking Number: 017487528 JJK

GENERATOR

5. Generator's Name and Mailing Address: UNISYS
3199 PILOT KNOB ROAD
EAGAN, MN 55121
Generator's Phone:

Generator's Site Address (if different than mailing address)
777 SOUTH MAIN ST
ELMIRA, NY 14904

6. Transporter 1 Company Name: (AR) US BULK TRANSPORT, INC (AR) ~~PAGE E.T.C. INC~~
U.S. EPA ID Number: PAD 987347515 ~~NYD 986 060 947~~

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address: WAYNE DISPOSAL, INC. SITE #2 LANDFII
49350 N I-94 SERVICE DRIVE
BELLEVILLE, MI 48111
Facility's Phone: (800) 592-5489
U.S. EPA ID Number: MID 048 090 633

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. UN3432, Polychlorinated biphenyls, solid, 9, PGII, ERG #171	XX1	DT	EST 29,800	K	PCB1
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. G170001WDI / Soil Contaminated with PCBs / Storage Start Date: 7-24-17
Unique Container ID: 106-A [IL 540 599 ST]
SAMPLE #B15

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: AS AGENT FOR UNISYS: KSHWIN RANNA
Signature: Kshwin
Month: 07 Day: 24 Year: 17

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Clinton DAVIS
Signature:
Month: 07 Day: 24 Year: 17

Transporter 2 Printed/Typed Name:
Signature:
Month: Day: Year:

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator)
Month: Day: Year:

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. PCB 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name:
Signature:
Month: 7 Day: 25 Year: 17

DESIGNATED FACILITY TO GENERATOR

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

169

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: NYR 000 231 571
2. Page 1 of: 1
3. Emergency Response Phone: 281-250-2646
4. Manifest Tracking Number: 017487525 JJK

GENERATOR

5. Generator's Name and Mailing Address: UNISYS
3199 PILOT KNOB ROAD
EAGAN, MN 55121
Generator's Phone:

Generator's Site Address (if different than mailing address)
777 SOUTH MAIN ST
ELMIRA, NY 14904

6. Transporter 1 Company Name: ~~PAGE E.T.C. INC~~ US BULK TRANSPORT, INC
U.S. EPA ID Number: ~~PAD 987347515~~ ~~AND 986 969 947~~

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address: WAYNE DISPOSAL, INC. SITE #2 LANDFII
49350 N I-94 SERVICE DRIVE
BELLEVILLE, MI 48111
Facility's Phone: (800) 592-5489
U.S. EPA ID Number: MID 048 090 633

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. UN3432, Polychlorinated biphenyls, solid, 9, PGII, ERG #171	XX1	DT	EST 20,800	K	PCB1
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. G170001WDI / Soil Contaminated with PCBs / Storage Start Date: 7-22-17
Unique Container ID: T2547
SAMPLE B15

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: A Agent for Unisys : Ashwin Ranna
Signature: Ashwin
Month: 07 Day: 22 Year: 17

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: EVERETT MOSHER
Signature:
Month: 7 Day: 22 Year: 17

Transporter 2 Printed/Typed Name
Signature
Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
PCB			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name
Signature
Month Day Year

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

7/21/80 Truck # 197

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
NYR 000 231 571	1	281-250-2646	017487577 JJK

GENERATOR

5. Generator's Name and Mailing Address: UNISYS
3199 PILOT KNOB ROAD
EAGAN, MN 55121
Generator's Phone:

Generator's Site Address (if different than mailing address)
777 SOUTH MAIN ST
ELMIRA, NY 14904

6. Transporter 1 Company Name: ~~PAGE E.T.C. INC~~ (AR) US BULK TRANSPORT, INC
U.S. EPA ID Number: ~~NYD 988 989 947~~ PAD987347515

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address: WAYNE DISPOSAL, INC. SITE #2 LANDFIL
49350 N I-94 SERVICE DRIVE
BELLEVILLE, MI 48111
Facility's Phone: (800) 592-5489
U.S. EPA ID Number: MID 048 090 633

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. UN3432, Polychlorinated biphenyls, solid, 9, PGIII ERG #171	XX1	DT	EST 20,800	K	PCB1
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. G170001WDI / Soil Contaminated with PCBs / Storage Start Date: 7-25-17
Unique Container ID: 197-A [NY AB7 739 66]
SAMPLE # B15 RQ

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: ASAGENTFORUNISYS: ASHWIN RANNA
Signature: Ashwin
Month: 07 Day: 25 Year: 17

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Randy Akin
Signature:
Month: 07 Day: 25 Year: 17

Transporter 2 Printed/Typed Name
Signature
Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
PCB			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Dennis Williams
Signature:
Month Day Year: 7/27/17

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

102

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: NYR 000 231 571
2. Page 1 of: 1
3. Emergency Response Phone: 281-250-2646
4. Manifest Tracking Number: 017487579 JJK

GENERATOR

5. Generator's Name and Mailing Address: UNISYS
3199 PILOT KNOB ROAD
EAGAN, MN 55121
Generator's Phone: (A8)

Generator's Site Address (if different than mailing address):
777 SOUTH MAIN ST
ELMIRA, NY 14904

6. Transporter 1 Company Name: ~~PAGE E.T.C. INC~~ US BULK TRANSPORT, INC (A9)
U.S. EPA ID Number: PAD987347515 ~~NJTD 986 909 947~~

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address: WAYNE DISPOSAL, INC. SITE #2 LANDFII
49350 N I-94 SERVICE DRIVE
BELLEVILLE, MI 48111
Facility's Phone: (800) 592-5489
U.S. EPA ID Number: MID 048 090 633

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. UN3432, Polychlorinated biphenyls, solid, 9, PGII, ERG #171	XX1	DT	EST 20,800	K	PCB1
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. G170001WDI / Soil Contaminated with PCBs / Storage Start Date: 7-25-17
Unique Container ID: 102-A [MI D6446 34]
SAMPLE #15

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: AS AGENT FOR UNISYS: ASHWIN RANVA
Signature:
Month: 07 Day: 25 Year: 17

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Josi Taylor
Signature:
Month: 7 Day: 25 Year: 17

Transporter 2 Printed/Typed Name:
Signature:
Month: Day: Year:

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number:
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month: Day: Year:

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
PCB			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name:
Signature:
Month: 7 Day: 26 Year: 17

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

#176

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: NYR 000 231 571
2. Page 1 of: 1
3. Emergency Response Phone: 281-250-2646
4. Manifest Tracking Number: 017487576 JJK

GENERATOR

5. Generator's Name and Mailing Address: UNISYS
3199 PILOT KNOB ROAD
EAGAN, MN 55121
Generator's Phone:

Generator's Site Address (if different than mailing address)
777 SOUTH MAIN ST
ELMIRA, NY 14904

6. Transporter 1 Company Name: ~~PAGE E.T.C. INC.~~ US BULK TRANSPORT, INC (AD)
U.S. EPA ID Number: (AR) ~~NYD 986 969 947~~ TND987847515

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address: WAYNE DISPOSAL, INC. SITE #2 LANDFIL
49350 N I-94 SERVICE DRIVE
BELLEVILLE, MI 48111
Facility's Phone: (800) 592-5489
U.S. EPA ID Number: MID 048 090 633

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. RQ UN3432, Polychlorinated biphenyls, solid, 9, PGIII ERG #171	XX1	DT	EST 20,800	K	PCB1
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. G170001WDI / Soil Contaminated with PCBs / Storage Start Date: 7-25-17
Unique Container ID: 176-B [ME227034 BJ
SAMPLE # B15

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: AGENT FOR UNISYS: ASHWIN RANNA
Signature:
Month 07 Day 25 Year 17

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: SCOTT E GREEN
Signature:
Month 07 Day 25 Year 17
Transporter 2 Printed/Typed Name:
Signature:
Month Day Year

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
PCB			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name:
Signature:
Month 7 Day 26 Year 17

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: NYR 000 231 571
2. Page 1 of: 1
3. Emergency Response Phone: 281-250-2646
4. Manifest Tracking Number: 017487581 JJK

GENERATOR

5. Generator's Name and Mailing Address: UNISYS
3199 PILOT KNOB ROAD
EAGAN, MN 55121
Generator's Phone:

Generator's Site Address (if different than mailing address)
777 SOUTH MAIN ST
ELMIRA, NY 14904

6. Transporter 1 Company Name: ~~PAGE E.T.C. INC~~ US BULK TRANSPORT, INC
U.S. EPA ID Number: PAD 987347515 ~~NYD 980 969 047~~

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address: WAYNE DISPOSAL, INC. SITE #2 LANDFII
49350 N I-94 SERVICE DRIVE
BELLEVILLE, MI 48111
Facility's Phone: (800) 592-5489
U.S. EPA ID Number: MID 048 090 633

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. UN3432, Polychlorinated biphenyls, solid, 9, PGII, ERG #171	XX1	DT	EST 20,800	K	PCB1
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. G170001WDI / Soil Contaminated with PCBs / Storage Start Date: 7-25-17
Unique Container ID: 141-A [OH TQD 1131]
SAMPLE BIS

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: AS AGENT FOR UNISYS: ASHWIN RANNA
Signature: Ashwin
Month: 07 Day: 25 Year: 17

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: John Shultz
Signature:
Month: 07 Day: 25 Year: 17

Transporter 2 Printed/Typed Name:
Signature:
Month: Day: Year:

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number:
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month: Day: Year:

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
PCB			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name:
Signature:
Month: Day: Year:

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

US Bulk 164

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
NYR 000 231 571	1	281-250-2646	017487578 JJK

GENERATOR

5. Generator's Name and Mailing Address UNISYS
3199 PILOT KNOB ROAD
EAGAN, MN 55121
Generator's Phone:

Generator's Site Address (if different than mailing address)
777 SOUTH MAIN ST
ELMIRA, NY 14904

6. Transporter 1 Company Name ~~PAGE E.T.C. INC~~ US BULK TRANSPORT, INC — U.S. EPA ID Number ~~PAD987347515~~ ~~NYD 986 869 947~~

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address WAYNE DISPOSAL, INC. SITE #2 LANDFIL
49350 N I-94 SERVICE DRIVE
BELLEVILLE, MI 48111
Facility's Phone: (800) 592-5489
U.S. EPA ID Number MID 048 090 633

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. UN3432, Polychlorinated biphenyls, solid, 9, PGII, ERG #171	XX1	DT	EST 29800	K	PCB1
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. G170001WDI / Soil Contaminated with PCBs / Storage Start Date: 7-25-17
Unique Container ID: 164 A EPA XUS 67725
SAMPLE #MS

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: AS AGENT FOR UNISYS: ASHWIN RANNA — Signature — Month 07 Day 25 Year 17

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Michael Fehr — Signature — Month 07 Day 25 Year 17

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
PCB			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Connie Wilkie — Signature — Month 7 Day 26 Year

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

RICCELLI ENTERPRISES INC

Syracuse
P.O. Box 6418
Syracuse, NY 13217
(315) 433-5115

Rochester
6800 W. Henrietta Road
Rush, NY 14543
(585) 344-8410

Geneva
1210 Gifford Road
Phelps, NY 14532
(315) 548-4049

5000

NON-HAZARDOUS SOLID WASTE MANIFEST

TRANSPORTER	DATE	TIME IN / OUT	
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217	8/10/17	0800	0815
TRUCK # 505	TRAILER # 209		

CONSIGNEE	SHIPPER
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217 7A-402 PHONE # (315) 433-5115	UNISYS Corporation 3199 Pilot Knob Road MSF1B05 Eagan, Minnesota 55121 PHONE # 651-212-7273 NYR000231571

NO. PIECES	ARTICLES OR DESCRIPTION	WEIGHT
Estimated 30 Tons	Non-DOT / Non-RCRA Regulated Soils WR 9 SECTION 4	WEIGHT IN WEIGHT OUT BILLED WEIGHT

AS AGENT FOR UNISYS

SHIPPER SIGNATURE _____ PRINT NAME ASHWIN RANNA

DRIVER SIGNATURE PAUL NINNO PRINT NAME _____

SPECIAL INSTRUCTIONS:
Approval #: 7682 (PROFILE #)
WR9 SECTION 4

DESTINATION: Casella
Ontario City LF
1488 Cnty Rte 60
Lowman, NY 14861

U.S. EPA ID Number:
NYR000092654

FOR APPROVAL: _____

CONSIGNEE PRINT NAME _____

CONSIGNEE SIGN HERE _____
(NO INITIALS)

RECEIVED ABOVE MATERIAL IN GOOD CONDITION

FIRM _____ DATE _____

BY _____ TIME _____ ☐ AM ☐ PM

Solid waste being interpreted to mean only solid waste or waste containing animal and vegetable matter, rubbish, trash, debris, ashes and metal non-toxic sludge and other waste materials which is not a radioactive volatile, highly flammable explosive toxic or hazardous nature as listed.

White Copy - *Riccelli* Yellow Copy - *Driver* Pink Copy - *Land Fill* Gold Copy - *Shipper*

RICCELLI ENTERPRISES INC

Syracuse
P.O. Box 6418
Syracuse, NY 13217
(315) 433-5115

Rochester
6800 W. Henrietta Road
Rush, NY 14543
(585) 344-8410

Geneva
1210 Gifford Road
Phelps, NY 14532
(315) 548-4049

5001

NON-HAZARDOUS SOLID WASTE MANIFEST

TRANSPORTER	DATE	TIME IN / OUT	
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217	8/10/17	0824	0834
TRUCK # 504	TRAILER # 223		

CONSIGNEE	SHIPPER
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217 7A-402 PHONE # (315) 433-5115	UNISYS Corporation 3199 Pilot Knob Road MSF1B05 Eagan, Minnesota 55121 PHONE # 651-212-7273 NYR000231571

NO. PIECES	ARTICLES OR DESCRIPTION		WEIGHT
Estimated 30 Tons	Non-DOT / Non-RCRA Regulated Soils	WEIGHT IN	
		WEIGHT OUT	
		BILLED WEIGHT	

AS AGENT FOR UNISYS: Ashwini Rama

SHIPPER SIGNATURE _____ PRINT NAME Ashwini Rama

100 STP

DRIVER SIGNATURE _____ PRINT NAME R. Day Smith

SPECIAL INSTRUCTIONS:
Approval #: Profile # 7682 WR9 SECTION 2

DESTINATION: Casella
Ontario City LF
1488 Cnty Rte 60
Lowman, NY 14861

U.S. EPA ID Number:
NYR000092654

FOR APPROVAL: _____

CONSIGNEE PRINT NAME _____

CONSIGNEE SIGN HERE _____
(NO INITIALS)

RECEIVED ABOVE MATERIAL IN GOOD CONDITION

FIRM _____ DATE _____

BY _____ TIME _____ ☐ AM ☐ PM

Solid waste being interpreted to mean only solid waste or waste containing animal and vegetable matter, rubbish, trash, debris, ashes and metal non-toxic sludge and other waste materials which is not a radioactive volatile, highly flammable explosive toxic or hazardous nature as listed.

White Copy - *Riccelli* Yellow Copy - *Driver* Pink Copy - *Land Fill* Gold Copy - *Shipper*

RICCELLI ENTERPRISES INC

Syracuse
P.O. Box 6418
Syracuse, NY 13217
(315) 433-5115

Rochester
6800 W. Henrietta Road
Rush, NY 14543
(585) 344-8410

Geneva
1210 Gifford Road
Phelps, NY 14532
(315) 548-4049

5002

NON-HAZARDOUS SOLID WASTE MANIFEST

TRANSPORTER	DATE	TIME IN	TIME OUT
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217	8/10/17	0838	0952
TRUCK # 507	TRAILER # 600		

CONSIGNEE	SHIPPER
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217 7A-402 PHONE # (315) 433-5115	UNISYS Corporation 3199 Pilot Knob Road MSF1B05 Eagan, Minnesota 55121 PHONE # 651-212-7273 NYR000231571

NO. PIECES	ARTICLES OR DESCRIPTION	WEIGHT
Estimated 30 Tons	Non-DOT / Non-RCRA Regulated Soils	WEIGHT IN WEIGHT OUT BILLED WEIGHT

AS AGENT FOR UNISYS

SHIPPER SIGNATURE Athwin PRINT NAME A Thwin Pham

DRIVER SIGNATURE Mark Blondell PRINT NAME

SPECIAL INSTRUCTIONS:
Approval #: PROFILE # 7682 WR 9 SECTION 2

DESTINATION: Casella
Ontario City LF
1488 Cnty Rte 60
Lowman, NY 14861

U.S. EPA ID Number:
NYR000092654

FOR APPROVAL: _____

CONSIGNEE PRINT NAME _____

CONSIGNEE SIGN HERE _____
(NO INITIALS)

RECEIVED ABOVE MATERIAL IN GOOD CONDITION

FIRM _____ DATE _____

BY _____ TIME _____ ☐ AM ☐ PM

Solid waste being interpreted to mean only solid waste or waste containing animal and vegetable matter, rubbish, trash, debris, ashes and metal non-toxic sludge and other waste materials which is not a radioactive volatile, highly flammable explosive toxic or hazardous nature as listed.

White Copy - *Riccelli* Yellow Copy - *Driver* Pink Copy - *Land Fill* Gold Copy - *Shipper*

RICCELLI ENTERPRISES INC

Syracuse
P.O. Box 6418
Syracuse, NY 13217
(315) 433-5115

Rochester
6800 W. Henrietta Road
Rush, NY 14543
(585) 344-8410

Geneva
1210 Gifford Road
Phelps, NY 14532
(315) 548-4049

5003

NON-HAZARDOUS SOLID WASTE MANIFEST

TRANSPORTER	DATE	TIME IN	/ OUT
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217	8/10/17	0855	0910
TRUCK # 608	TRAILER # 161		

CONSIGNEE	SHIPPER
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217 7A-402 PHONE # (315) 433-5115	UNISYS Corporation 3199 Pilot Knob Road MSF1B05 Eagan, Minnesota 55121 PHONE # 651-212-7273 NYR000231571

NO. PIECES	ARTICLES OR DESCRIPTION	WEIGHT
Estimated 30 Tons	Non-DOT / Non-RCRA Regulated Soils	**WEIGHT IN**
		WEIGHT OUT
		BILLED WEIGHT

SHIPPER SIGNATURE AS AGENT FOR UNISYS PRINT NAME Ashwin Rao

DRIVER SIGNATURE [signature] PRINT NAME [signature]

SPECIAL INSTRUCTIONS:
Approval #: PROFILE # 7682
WR9 SECTION 2

DESTINATION: Casella
Ontario City LF
1488 Cnty Rte 60
Lowman, NY 14861

U.S. EPA ID Number:
NYR000092654

FOR APPROVAL: _____

CONSIGNEE PRINT NAME _____

CONSIGNEE SIGN HERE _____
(NO INITIALS)

RECEIVED ABOVE MATERIAL IN GOOD CONDITION

FIRM _____ DATE _____

BY _____ TIME _____ ☐ AM ☐ PM

Solid waste being interpreted to mean only solid waste or waste containing animal and vegetable matter, rubbish, trash, debris, ashes and metal non-toxic sludge and other waste materials which is not a radioactive volatile, highly flammable explosive toxic or hazardous nature as listed.

White Copy - *Riccelli* Yellow Copy - *Driver* Pink Copy - *Land Fill* Gold Copy - *Shipper*

RICCELLI ENTERPRISES INC

Syracuse
P.O. Box 6418
Syracuse, NY 13217
(315) 433-5115

Rochester
6800 W. Henrietta Road
Rush, NY 14543
(585) 344-8410

Geneva
1210 Gifford Road
Phelps, NY 14532
(315) 548-4049

5004

NON-HAZARDOUS SOLID WASTE MANIFEST

TRANSPORTER	DATE	TIME IN / OUT	
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217	~~8/10/17~~ 8/10/17	0913	0930
TRUCK # 261	TRAILER # 168		

CONSIGNEE	SHIPPER
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217 7A-402 PHONE # (315) 433-5115	UNISYS Corporation 3199 Pilot Knob Road MSF1B05 Eagan, Minnesota 55121 PHONE # 651-212-7273 NYR000231571

NO. PIECES	ARTICLES OR DESCRIPTION		WEIGHT
Estimated 30 Tons	Non-DOT / Non-RCRA Regulated Soils	**WEIGHT IN**	
		WEIGHT OUT	
		BILLED WEIGHT	

AS AGENT FOR UNISYS: Ashley

SHIPPER SIGNATURE _____ PRINT NAME Ashley Rapp

DRIVER SIGNATURE Miguel PRINT NAME Miguel

SPECIAL INSTRUCTIONS:
Approval #: PROFILE # 7682 WR 9 SECTION 3

DESTINATION: Casella
Ontario City LF
1488 Cnty Rte 60
Lowman, NY 14861

U.S. EPA ID Number:
NYR000092654

FOR APPROVAL: _____

CONSIGNEE PRINT NAME _____

CONSIGNEE SIGN HERE _____
(NO INITIALS)

RECEIVED ABOVE MATERIAL IN GOOD CONDITION

FIRM _____ DATE _____

BY _____ TIME _____ ☐ AM ☐ PM

Solid waste being interpreted to mean only solid waste or waste containing animal and vegetable matter, rubbish, trash, debris, ashes and metal non-toxic sludge and other waste materials which is not a radioactive volatile, highly flammable explosive toxic or hazardous nature as listed.

White Copy - *Riccelli* Yellow Copy - *Driver* Pink Copy - *Land Fill* Gold Copy - *Shipper*

RICCELLI ENTERPRISES INC

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P.O. Box 6418
Syracuse, NY 13217
(315) 433-5115

Rochester
6800 W. Henrietta Road
Rush, NY 14543
(585) 344-8410

Geneva
1210 Gifford Road
Phelps, NY 14532
(315) 548-4049

5005

NON-HAZARDOUS SOLID WASTE MANIFEST

TRANSPORTER	DATE	TIME IN	/ OUT
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217	8/11/17	0630	0644
TRUCK # 505	TRAILER # 209		

CONSIGNEE	SHIPPER
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217 7A-402 PHONE # (315) 433-5115	UNISYS Corporation 3199 Pilot Knob Road MSF1B05 Eagan, Minnesota 55121 PHONE # 651-212-7273 NYR000231571

NO. PIECES	ARTICLES OR DESCRIPTION		WEIGHT
Estimated 30 Tons	Non-DOT / Non-RCRA Regulated Soils	**WEIGHT IN**	
		WEIGHT OUT	
		BILLED WEIGHT	
		EST.	37 TON

AS AGENT FOR UNISYS

SHIPPER SIGNATURE _____ PRINT NAME Adam Ramos

DRIVER SIGNATURE Paul L Nino PRINT NAME PAUL NINO

SPECIAL INSTRUCTIONS:
Approval #: PROFILE # 7682
WR9 SECTION 3

DESTINATION: Casella
Ontario City LF
~~1488 Cnty Rte 60~~
~~Lowman, NY 14861~~ SENECA NY

U.S. EPA ID Number:
NYR000092654

FOR APPROVAL: _____

CONSIGNEE PRINT NAME _____

CONSIGNEE SIGN HERE _____
(NO INITIALS)

RECEIVED ABOVE MATERIAL IN GOOD CONDITION

FIRM _____ DATE _____

BY _____ TIME _____ ☐ AM ☐ PM

Solid waste being interpreted to mean only solid waste or waste containing animal and vegetable matter, rubbish, trash, debris, ashes and metal non-toxic sludge and other waste materials which is not a radioactive volatile, highly flammable explosive toxic or hazardous nature as listed.

White Copy - *Riccelli* Yellow Copy - *Driver* Pink Copy - *Land Fill* Gold Copy - *Shipper*

RICCELLI ENTERPRISES INC

Syracuse
P.O. Box 6418
Syracuse, NY 13217
(315) 433-5115

Rochester
6800 W. Henrietta Road
Rush, NY 14543
(585) 344-8410

Geneva
1210 Gifford Road
Phelps, NY 14532
(315) 548-4049

5006

NON-HAZARDOUS SOLID WASTE MANIFEST

TRANSPORTER	DATE	TIME IN	/ OUT
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217	8/11/17	0644	0657
TRUCK # 504	TRAILER # 223		

CONSIGNEE	SHIPPER
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217 7A-402 PHONE # (315) 433-5115	UNISYS Corporation 3199 Pilot Knob Road MSF1B05 Eagan, Minnesota 55121 PHONE # 651-212-7273 NYR000231571

NO. PIECES	ARTICLES OR DESCRIPTION		WEIGHT
Estimated 30 Tons	Non-DOT / Non-RCRA Regulated Soils	**WEIGHT IN**	
		WEIGHT OUT	
		BILLED WEIGHT	

AS AGENT FOR UNISYS

SHIPPER SIGNATURE _____ PRINT NAME _____

DRIVER SIGNATURE _____ PRINT NAME _____

SPECIAL INSTRUCTIONS:
Approval #: PROFILE # 7682 WR9 SECTION 3

DESTINATION: Casella
Ontario City LF
1488 Cnty Rte 60
Lowman, NY 14861

U.S. EPA ID Number:
NYR000092654

FOR APPROVAL: _____

CONSIGNEE PRINT NAME _____

CONSIGNEE SIGN HERE _____
(NO INITIALS)

RECEIVED ABOVE MATERIAL IN GOOD CONDITION

FIRM _____ DATE _____

BY _____ TIME _____ ☐ AM ☐ PM

Solid waste being interpreted to mean only solid waste or waste containing animal and vegetable matter, rubbish, trash, debris, ashes and metal non-toxic sludge and other waste materials which is not a radioactive volatile, highly flammable explosive toxic or hazardous nature as listed.

White Copy - *Riccelli* Yellow Copy - *Driver* Pink Copy - *Land Fill* Gold Copy - *Shipper*

RICCELLI ENTERPRISES INC

Syracuse
P.O. Box 6418
Syracuse, NY 13217
(315) 433-5115

Rochester
6800 W. Henrietta Road
Rush, NY 14543
(585) 344-8410

Geneva
1210 Gifford Road
Phelps, NY 14532
(315) 548-4049

5007

NON-HAZARDOUS SOLID WASTE MANIFEST

TRANSPORTER	DATE	TIME IN	/ OUT
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217	8/11/17	0655	0710
TRUCK # 507	TRAILER # 600		

CONSIGNEE	SHIPPER
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217 7A-402 PHONE # (315) 433-5115	UNISYS Corporation 3199 Pilot Knob Road MSF1B05 Eagan, Minnesota 55121 PHONE # 651-212-7273 NYR000231571

NO. PIECES	ARTICLES OR DESCRIPTION		WEIGHT
Estimated 30 Tons	Non-DOT / Non-RCRA Regulated Soils	WEIGHT IN	
		WEIGHT OUT	
		BILLED WEIGHT	

AS AGENT FOR UNISYS

SHIPPER SIGNATURE _____ PRINT NAME _____

DRIVER SIGNATURE _____ PRINT NAME Mike Bloomfield

SPECIAL INSTRUCTIONS:
Approval #: PROFILE #7682 WR 9 SECTION 3

DESTINATION: Casella
Ontario City LF
~~1488 Cnty Rte 60~~ 80 LF
~~Lowman, NY 14861~~ 8/5/20
Scottsville NY

U.S. EPA ID Number:
NYR000092654

FOR APPROVAL: _____

CONSIGNEE PRINT NAME _____

CONSIGNEE SIGN HERE _____
(NO INITIALS)

RECEIVED ABOVE MATERIAL IN GOOD CONDITION

FIRM _____ DATE _____

BY _____ TIME _____ ☐ AM ☐ PM

Solid waste being interpreted to mean only solid waste or waste containing animal and vegetable matter, rubbish, trash, debris, ashes and metal non-toxic sludge and other waste materials which is not a radioactive volatile, highly flammable explosive toxic or hazardous nature as listed.

White Copy - *Riccelli* Yellow Copy - *Driver* Pink Copy - *Land Fill* Gold Copy - *Shipper*

RICCELLI ENTERPRISES INC

Syracuse
P.O. Box 6418
Syracuse, NY 13217
(315) 433-5115

Rochester
6800 W. Henrietta Road
Rush, NY 14543
(585) 344-8410

Geneva
1210 Gifford Road
Phelps, NY 14532
(315) 548-4049

5008

NON-HAZARDOUS SOLID WASTE MANIFEST

TRANSPORTER	DATE	TIME IN	/ OUT
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217	8/11/17	0749	0800
TRUCK # 99	TRAILER # N.A.		

CONSIGNEE	SHIPPER
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217 7A-402 PHONE # (315) 433-5115	UNISYS Corporation 3199 Pilot Knob Road MSF1B05 Eagan, Minnesota 55121 PHONE # 651-212-7273 NYR000231571

NO. PIECES	ARTICLES OR DESCRIPTION		WEIGHT
Estimated ~~30 Tons~~ 22 TON	Non-DOT / Non-RCRA Regulated Soils	WEIGHT IN	
		WEIGHT OUT	
		BILLED WEIGHT	

SHIPPER SIGNATURE AS AGENT FOR UNISYS _____ PRINT NAME _____

DRIVER SIGNATURE Tim Felt _____ PRINT NAME Tom Felice

SPECIAL INSTRUCTIONS:
Approval #: PROFILE # 7682 WR 9 SECTION 4

DESTINATION: Casella
Ontario City LF
~~1488 Cnty Rte 60~~
Lowman, NY 14861

U.S. EPA ID Number:
NYR000092654

FOR APPROVAL: _____

CONSIGNEE PRINT NAME _____

CONSIGNEE SIGN HERE _____
(NO INITIALS)

RECEIVED ABOVE MATERIAL IN GOOD CONDITION

FIRM _____ DATE _____

BY _____ TIME _____ ☐ AM ☐ PM

Solid waste being interpreted to mean only solid waste or waste containing animal and vegetable matter, rubbish, trash, debris, ashes and metal non-toxic sludge and other waste materials which is not a radioactive volatile, highly flammable explosive toxic or hazardous nature as listed.

White Copy - *Riccelli* Yellow Copy - *Driver* Pink Copy - *Land Fill* Gold Copy - *Shipper*

RICCELLI ENTERPRISES INC

Syracuse
P.O. Box 6418
Syracuse, NY 13217
(315) 433-5115

Rochester
6800 W. Henrietta Road
Rush, NY 14543
(585) 344-8410

Geneva
1210 Gifford Road
Phelps, NY 14532
(315) 548-4049

5009

NON-HAZARDOUS SOLID WASTE MANIFEST

TRANSPORTER	DATE	TIME IN / OUT	
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217	8/11/17	0755	0805
TRUCK # 327	TRAILER # N/A		

CONSIGNEE	SHIPPER
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217 7A-402 PHONE # (315) 433-5115	UNISYS Corporation 3199 Pilot Knob Road MSF1B05 Eagan, Minnesota 55121 PHONE # 651-212-7273 NYR000231571

NO. PIECES	ARTICLES OR DESCRIPTION	WEIGHT
Estimated ~~30 Tons~~ 22 TONS	Non-DOT / Non-RCRA Regulated Soils	**WEIGHT IN** **WEIGHT OUT** **BILLED WEIGHT**

AS Agent for UNISYS

SHIPPER SIGNATURE _____ PRINT NAME _____

DRIVER SIGNATURE _____ PRINT NAME _____

SPECIAL INSTRUCTIONS:
Approval #: PROFILE # 7692
WR9 SECTION 4

DESTINATION: (AP)
Casella
Ontario City LF
1488 Cnty Rte 60
Lowman, NY 14861

U.S. EPA ID Number:
NYR000092654

FOR APPROVAL: _____
CONSIGNEE PRINT NAME _____
CONSIGNEE SIGN HERE _____
(NO INITIALS)

RECEIVED ABOVE MATERIAL IN GOOD CONDITION

FIRM _____ DATE _____
BY _____ TIME _____ ☐ AM ☐ PM

Solid waste being interpreted to mean only solid waste or waste containing animal and vegetable matter, rubbish, trash, debris, ashes and metal non-toxic sludge and other waste materials which is not a radioactive volatile, highly flammable explosive toxic or hazardous nature as listed.

White Copy - *Riccelli* Yellow Copy - *Driver* Pink Copy - *Land Fill* Gold Copy - *Shipper*

RICCELLI ENTERPRISES

Syracuse
P.O. Box 6418
Syracuse, NY 13217
(315) 433-5115

Rochester
6800 W. Henrietta Road
Rush, NY 14543
(585) 344-8410

Geneva
1210 Gifford Road
Phelps, NY 14532
(315) 548-4049

5010

NON-HAZARDOUS SOLID WASTE MANIFEST

TRANSPORTER	DATE	TIME IN	/ OUT
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217	8/11/17	0800	0810
TRUCK # 315	TRAILER # N/A		

CONSIGNEE	SHIPPER
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217 7A-402 PHONE # (315) 433-5115	UNISYS Corporation 3199 Pilot Knob Road MSF1B05 Eagan, Minnesota 55121 PHONE # 651-212-7273 NYR000231571

NO. PIECES	ARTICLES OR DESCRIPTION		WEIGHT
Estimated ~~30 Tons~~ 22 TONS	Non-DOT / Non-RCRA Regulated Soils	**WEIGHT IN**	
		WEIGHT OUT	
		BILLED WEIGHT	

SHIPPER SIGNATURE As Agent for UNISYS Adam Rogers PRINT NAME Adam Rogers

DRIVER SIGNATURE [signature] PRINT NAME Duane Knumpen

SPECIAL INSTRUCTIONS:
Approval #: PROFILE #7682
WE 9 SECTION 4

DESTINATION: Casella
Ontario City LF
~~1488 Cnty Rte 60~~
Lowman, NY 14861

U.S. EPA ID Number:
NYR000092654

FOR APPROVAL: _____
CONSIGNEE PRINT NAME _____
CONSIGNEE SIGN HERE _____ (NO INITIALS)

RECEIVED ABOVE MATERIAL IN GOOD CONDITION
FIRM _____ DATE _____
BY _____ TIME _____ ☐ AM ☐ PM

Solid waste being interpreted to mean only solid waste or waste containing animal and vegetable matter, rubbish, trash, debris, ashes and metal non-toxic sludge and other waste materials which is not a radioactive volatile, highly flammable explosive toxic or hazardous nature as listed.

White Copy - *Riccelli* Yellow Copy - *Driver* Pink Copy - *Land Fill* Gold Copy - *Shipper*

RICCELLI ENTERPRISES INC

Syracuse
P.O. Box 6418
Syracuse, NY 13217
(315) 433-5115

Rochester
6800 W. Henrietta Road
Rush, NY 14543
(585) 344-8410

Geneva
1210 Gifford Road
Phelps, NY 14532
(315) 548-4049

5011

NON-HAZARDOUS SOLID WASTE MANIFEST

TRANSPORTER	DATE	TIME IN / OUT	
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217	8/11/17	0810	0820
TRUCK # 60	TRAILER # N/A		

CONSIGNEE	SHIPPER
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217 7A-402 PHONE # (315) 433-5115	UNISYS Corporation 3199 Pilot Knob Road MSF1B05 Eagan, Minnesota 55121 PHONE # 651-212-7273 NYR000231571

NO. PIECES	ARTICLES OR DESCRIPTION	WEIGHT
Estimated ~~30 Tons~~ 22 TONS	Non-DOT / Non-RCRA Regulated Soils	**WEIGHT IN** **WEIGHT OUT** **BILLED WEIGHT**

SHIPPER SIGNATURE _____ PRINT NAME _____

DRIVER SIGNATURE Jeremiah Moody PRINT NAME Jeremiah Moody

SPECIAL INSTRUCTIONS:
Approval #: PROFILE # 7682 WR 9 SECTION 4

DESTINATION: Casella
Ontario City LF
~~1488 Cnty Rte 60~~
~~Lowman, NY 14861~~

U.S. EPA ID Number:
NYR000092654

FOR APPROVAL: _____
CONSIGNEE PRINT NAME _____
CONSIGNEE SIGN HERE _____
(NO INITIALS)

RECEIVED ABOVE MATERIAL IN GOOD CONDITION
FIRM _____ DATE _____
BY _____ TIME _____ ☐ AM ☐ PM

Solid waste being interpreted to mean only solid waste or waste containing animal and vegetable matter, rubbish, trash, debris, ashes and metal non-toxic sludge and other waste materials which is not a radioactive volatile, highly flammable explosive toxic or hazardous nature as listed.

White Copy - *Riccelli* Yellow Copy - *Driver* Pink Copy - *Land Fill* Gold Copy - *Shipper*

RICCELLI ENTERPRISES

Syracuse
P.O. Box 6418
Syracuse, NY 13217
(315) 433-5115

Rochester
6800 W. Henrietta Road
Rush, NY 14543
(585) 344-8410

Geneva
1210 Gifford Road
Phelps, NY 14532
(315) 548-4049

5012

NON-HAZARDOUS SOLID WASTE MANIFEST

TRANSPORTER	DATE	TIME IN	/ OUT
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217	8/11/17	0944	1000
TRUCK # 508	TRAILER # 219		

CONSIGNEE	SHIPPER
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217 7A-402 PHONE # (315) 433-5115	UNISYS Corporation 3199 Pilot Knob Road MSF1B05 Eagan, Minnesota 55121 PHONE # 651-212-7273 NYR000231571

NO. PIECES	ARTICLES OR DESCRIPTION		WEIGHT
Estimated 30 Tons	Non-DOT / Non-RCRA Regulated Soils	**WEIGHT IN**	
		WEIGHT OUT	
		BILLED WEIGHT	

As Agent for Unisys

SHIPPER SIGNATURE _____ PRINT NAME _____

DRIVER SIGNATURE Lisa Calkins PRINT NAME Lisa Calkins

SPECIAL INSTRUCTIONS:
Approval #: PROFILE #7682
WR 9 SECTION 4

DESTINATION: Casella
Ontario City LF
~~1488 Cnty Rte 60~~
~~Lowman, NY 14861~~

U.S. EPA ID Number:
NYR000092654

FOR APPROVAL: _____

CONSIGNEE PRINT NAME _____

CONSIGNEE SIGN HERE _____
(NO INITIALS)

RECEIVED ABOVE MATERIAL IN GOOD CONDITION

FIRM _____ DATE _____

BY _____ TIME _____ ☐ AM ☐ PM

Solid waste being interpreted to mean only solid waste or waste containing animal and vegetable matter, rubbish, trash, debris, ashes and metal non-toxic sludge and other waste materials which is not a radioactive volatile, highly flammable explosive toxic or hazardous nature as listed.

White Copy - *Riccelli* Yellow Copy - *Driver* Pink Copy - *Land Fill* Gold Copy - *Shipper*

RICCELLI ENTERPRISES INC

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Syracuse, NY 13217
(315) 433-5115

Rochester
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Rush, NY 14543
(585) 344-8410

Geneva
1210 Gifford Road
Phelps, NY 14532
(315) 548-4049

5013

NON-HAZARDOUS SOLID WASTE MANIFEST

TRANSPORTER	DATE	TIME IN	/ OUT
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217	8/11/17	1115	1130
TRUCK # 505	TRAILER # 209		

CONSIGNEE	SHIPPER
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217 7A-402 PHONE # (315) 433-5115	UNISYS Corporation 3199 Pilot Knob Road MSF1B05 Eagan, Minnesota 55121 PHONE # 651-212-7273 NYR000231571

NO. PIECES	ARTICLES OR DESCRIPTION		WEIGHT
Estimated 30 Tons	Non-DOT / Non-RCRA Regulated Soils	WEIGHT IN	
		WEIGHT OUT	
		BILLED WEIGHT	
		Est. 37	

As Agent for Unisys

SHIPPER SIGNATURE _____ PRINT NAME _____

DRIVER SIGNATURE Paul L Nunzio PRINT NAME PAUL NUNZIO

SPECIAL INSTRUCTIONS:
Approval #: PROFILE # 7682
WR 9 SECTION 4

DESTINATION: (AR)
Casella
Ontario City LF
1488 Cnty Rte 60
Lowman, NY 14861 ~~STANLEY NY.~~

U.S. EPA ID Number:
NYR000092654

FOR APPROVAL: _____

CONSIGNEE PRINT NAME _____

CONSIGNEE SIGN HERE _____
(NO INITIALS)

RECEIVED ABOVE MATERIAL IN GOOD CONDITION

FIRM _____ DATE _____

BY _____ TIME _____ ☐ AM ☐ PM

Solid waste being interpreted to mean only solid waste or waste containing animal and vegetable matter, rubbish, trash, debris, ashes and metal non-toxic sludge and other waste materials which is not a radioactive volatile, highly flammable explosive toxic or hazardous nature as listed.

White Copy - *Riccelli* Yellow Copy - *Driver* Pink Copy - *Land Fill* Gold Copy - *Shipper*

RICCELLI ENTERPRISES

Syracuse
P.O. Box 6418
Syracuse, NY 13217
(315) 433-5115

Rochester
6800 W. Henrietta Road
Rush, NY 14543
(585) 344-8410

Geneva
1210 Gifford Road
Phelps, NY 14532
(315) 548-4049

5014

NON-HAZARDOUS SOLID WASTE MANIFEST

TRANSPORTER	DATE	TIME IN / OUT	
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217	8/11/17	1130	1145
TRUCK # 504	TRAILER # 223		

CONSIGNEE	SHIPPER
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217 7A-402 PHONE # (315) 433-5115	UNISYS Corporation 3199 Pilot Knob Road MSF1B05 Eagan, Minnesota 55121 PHONE # 651-212-7273 NYR000231571

NO. PIECES	ARTICLES OR DESCRIPTION	WEIGHT
Estimated 30 Tons	Non-DOT / Non-RCRA Regulated Soils	**WEIGHT IN**
		WEIGHT OUT
		BILLED WEIGHT

SHIPPER SIGNATURE Approved for Unisys Agency PRINT NAME Adam Bacon

DRIVER SIGNATURE DOT PRINT NAME Rodney Scott

SPECIAL INSTRUCTIONS:
Approval #: PROFILE #7682 WR1-2 SECTION 1

DESTINATION: (IR)
Casella
Ontario City LF
1488 Cnty Rte 60
Lowman, NY 14861

U.S. EPA ID Number:
NYR000092654

FOR APPROVAL: _____

CONSIGNEE PRINT NAME _____

CONSIGNEE SIGN HERE _____
(NO INITIALS)

RECEIVED ABOVE MATERIAL IN GOOD CONDITION

FIRM _____ DATE _____

BY _____ TIME _____ ☐ AM ☐ PM

Solid waste being interpreted to mean only solid waste or waste containing animal and vegetable matter, rubbish, trash, debris, ashes and metal non-toxic sludge and other waste materials which is not a radioactive volatile, highly flammable explosive toxic or hazardous nature as listed.

White Copy - *Riccelli* Yellow Copy - *Driver* Pink Copy - *Land Fill* Gold Copy - *Shipper*

RICCELLI ENTERPRISES INC

Syracuse
P.O. Box 6418
Syracuse, NY 13217
(315) 433-5115

Rochester
6800 W. Henrietta Road
Rush, NY 14543
(585) 344-8410

Geneva
1210 Gifford Road
Phelps, NY 14532
(315) 548-4049

5015

NON-HAZARDOUS SOLID WASTE MANIFEST

TRANSPORTER	DATE	TIME IN / OUT	
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217	8/11/17	1150	1200
TRUCK # 327	TRAILER # N/A		

CONSIGNEE	SHIPPER
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217 7A-402 PHONE # (315) 433-5115	UNISYS Corporation 3199 Pilot Knob Road MSF1B05 Eagan, Minnesota 55121 PHONE # 651-212-7273 NYR000231571

NO. PIECES	ARTICLES OR DESCRIPTION	WEIGHT	
Estimated ~~30 Tons~~ 22 TONS (AR)	Non-DOT / Non-RCRA Regulated Soils	WEIGHT IN	
		WEIGHT OUT	
		BILLED WEIGHT	

As agent for Unisys Acheson — SHIPPER SIGNATURE _____ PRINT NAME Aaron Ramos

DRIVER SIGNATURE _____ PRINT NAME Mark F.

SPECIAL INSTRUCTIONS:
Approval #: PROFILE # 7682 WR 1-2 SECTION 1

DESTINATION: Casella
Ontario City LF
1488 Cnty Rte 60 (AR)
Lowman, NY 14861

U.S. EPA ID Number:
NYR000092654

FOR APPROVAL: _____
CONSIGNEE PRINT NAME _____
CONSIGNEE SIGN HERE _____
(NO INITIALS)

RECEIVED ABOVE MATERIAL IN GOOD CONDITION

FIRM _____ DATE _____ ☐ AM ☐ PM
BY _____ TIME _____

Solid waste being interpreted to mean only solid waste or waste containing animal and vegetable matter, rubbish, trash, debris, ashes and metal non-toxic sludge and other waste materials which is not a radioactive volatile, highly flammable explosive toxic or hazardous nature as listed.

White Copy - *Riccelli* Yellow Copy - *Driver* Pink Copy - *Land Fill* Gold Copy - *Shipper*

RICCELLI ENTERPRISES INC

Syracuse
P.O. Box 6418
Syracuse, NY 13217
(315) 433-5115

Rochester
6800 W. Henrietta Road
Rush, NY 14543
(585) 344-8410

Geneva
1210 Gifford Road
Phelps, NY 14532
(315) 548-4049

5016

NON-HAZARDOUS SOLID WASTE MANIFEST

TRANSPORTER	DATE	TIME IN / OUT	
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217	8/11/17	1200	1210
TRUCK # 315	TRAILER # N/A		

CONSIGNEE	SHIPPER
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217 7A-402 PHONE # (315) 433-5115	UNISYS Corporation 3199 Pilot Knob Road MSF1B05 Eagan, Minnesota 55121 PHONE # 651-212-7273 NYR000231571

NO. PIECES	ARTICLES OR DESCRIPTION		WEIGHT
AR Estimated 30 Tons 22 TONS	Non-DOT / Non-RCRA Regulated Soils	WEIGHT IN	
		WEIGHT OUT	
		BILLED WEIGHT	

SHIPPER SIGNATURE Agent for Unisys Maura PRINT NAME Maura Rauen

DRIVER SIGNATURE [signature] PRINT NAME Duane Bump

SPECIAL INSTRUCTIONS:
Approval #: PROFILE # 7682
WR1-2 SECTION 1

DESTINATION: AR
Casella
Ontario City LF
1488 Cnty Rte 60
Lowman, NY 14861

U.S. EPA ID Number:
NYR000092654

FOR APPROVAL: _____
CONSIGNEE PRINT NAME _____
CONSIGNEE SIGN HERE _____ (NO INITIALS)

RECEIVED ABOVE MATERIAL IN GOOD CONDITION

FIRM _____ DATE _____
BY _____ TIME _____ ☐ AM ☐ PM

Solid waste being interpreted to mean only solid waste or waste containing animal and vegetable matter, rubbish, trash, debris, ashes and metal non-toxic sludge and other waste materials which is not a radioactive volatile, highly flammable explosive toxic or hazardous nature as listed.

White Copy - *Riccelli* Yellow Copy - *Driver* Pink Copy - *Land Fill* Gold Copy - *Shipper*

RICCELLI ENTERPRISES INC

Syracuse
P.O. Box 6418
Syracuse, NY 13217
(315) 433-5115

Rochester
6800 W. Henrietta Road
Rush, NY 14543
(585) 344-8410

Geneva
1210 Gifford Road
Phelps, NY 14532
(315) 548-4049

5017

NON-HAZARDOUS SOLID WASTE MANIFEST

TRANSPORTER	DATE	TIME IN / OUT	
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217	8/11/17	1210	1220
TRUCK # 60	TRAILER # N/A		

CONSIGNEE	SHIPPER
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217 7A-402 PHONE # (315) 433-5115	UNISYS Corporation 3199 Pilot Knob Road MSF1B05 Eagan, Minnesota 55121 PHONE # 651-212-7273 NYR000231571

NO. PIECES	ARTICLES OR DESCRIPTION		WEIGHT
Estimated 30 Tons 22 TONS	Non-DOT / Non-RCRA Regulated Soils	WEIGHT IN	
		WEIGHT OUT	
		BILLED WEIGHT	

SHIPPER SIGNATURE As agent for Unisys: [signature] PRINT NAME [illegible]

DRIVER SIGNATURE [signature] PRINT NAME [illegible]

SPECIAL INSTRUCTIONS:
Approval #: PROFILE #7682
WRI-2 SECTION 1

DESTINATION: Casella
Ontario City LF
1488 Cnty Rte 60
Lowman, NY 14861

U.S. EPA ID Number:
NYR000092654

FOR APPROVAL: _____

CONSIGNEE PRINT NAME _____

CONSIGNEE SIGN HERE _____
(NO INITIALS)

RECEIVED ABOVE MATERIAL IN GOOD CONDITION

FIRM _____ DATE _____

BY _____ TIME _____ ☐ AM ☐ PM

Solid waste being interpreted to mean only solid waste or waste containing animal and vegetable matter, rubbish, trash, debris, ashes and metal non-toxic sludge and other waste materials which is not a radioactive volatile, highly flammable explosive toxic or hazardous nature as listed.

White Copy - *Riccelli* Yellow Copy - *Driver* Pink Copy - *Land Fill* Gold Copy - *Shipper*

RICCELLI ENTERPRISES

Syracuse
P.O. Box 6418
Syracuse, NY 13217
(315) 433-5115

Rochester
6800 W. Henrietta Road
Rush, NY 14543
(585) 344-8410

Geneva
1210 Gifford Road
Phelps, NY 14532
(315) 548-4049

5018

NON-HAZARDOUS SOLID WASTE MANIFEST

TRANSPORTER	DATE	TIME IN	/ OUT
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217	8/14/17	0642	0700
TRUCK # 505	TRAILER # 209		

CONSIGNEE	SHIPPER
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217 7A-402 PHONE # (315) 433-5115	UNISYS Corporation 3199 Pilot Knob Road MSF1B05 Eagan, Minnesota 55121 PHONE # 651-212-7273 NYR000231571

NO. PIECES	ARTICLES OR DESCRIPTION		WEIGHT
Estimated 30 Tons	Non-DOT / Non-RCRA Regulated Soils	**WEIGHT IN**	
		WEIGHT OUT	
		BILLED WEIGHT	

As Agent for Unisys Above

SHIPPER SIGNATURE _____ PRINT NAME Adam Ranes

DRIVER SIGNATURE Paul J. Ninno PRINT NAME PAUL NINNO

SPECIAL INSTRUCTIONS:
Approval #: PROFILE # 7052
WELL 2 SECTION 1

DESTINATION: Casella
Ontario City LF
1488 Cnty Rte 60
Lowman, NY 14861

U.S. EPA ID Number:
NYR000092654

STANLEY NY.

FOR APPROVAL: _____

CONSIGNEE PRINT NAME _____

CONSIGNEE SIGN HERE _____
(NO INITIALS)

RECEIVED ABOVE MATERIAL IN GOOD CONDITION

FIRM _____ DATE _____

BY _____ TIME _____ ☐ AM ☐ PM

Solid waste being interpreted to mean only solid waste or waste containing animal and vegetable matter, rubbish, trash, debris, ashes and metal non-toxic sludge and other waste materials which is not a radioactive volatile, highly flammable explosive toxic or hazardous nature as listed.

White Copy - *Riccelli* Yellow Copy - *Driver* Pink Copy - *Land Fill* Gold Copy - *Shipper*

RICCELLI ENTERPRISES INC

Syracuse
P.O. Box 6418
Syracuse, NY 13217
(315) 433-5115

Rochester
6800 W. Henrietta Road
Rush, NY 14543
(585) 344-8410

Geneva
1210 Gifford Road
Phelps, NY 14532
(315) 548-4049

5019

NON-HAZARDOUS SOLID WASTE MANIFEST

TRANSPORTER	DATE	TIME IN	/ OUT
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217	8/14/17	0722	0740
TRUCK # 504	TRAILER # 223		

CONSIGNEE	SHIPPER
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217 7A-402 PHONE # (315) 433-5115	UNISYS Corporation 3199 Pilot Knob Road MSF1B05 Eagan, Minnesota 55121 PHONE # 651-212-7273 NYR000231571

NO. PIECES	ARTICLES OR DESCRIPTION		WEIGHT
Estimated 30 Tons	Non-DOT / Non-RCRA Regulated Soils	**WEIGHT IN**	
		WEIGHT OUT	
		BILLED WEIGHT	

As Agent for Unisys: [signature] PRINT NAME Adam Powers

DRIVER SIGNATURE [signature] PRINT NAME Ryan Smith

SPECIAL INSTRUCTIONS:
Approval #: PROFILE #7092 WR 4-5 SECTION 1

DESTINATION: Casella
Ontario City LF
1488 Cnty Rte 60
Lowman, NY 14861 STANLEY, NY

U.S. EPA ID Number:
NYR000092654

FOR APPROVAL: _____
CONSIGNEE PRINT NAME _____
CONSIGNEE SIGN HERE _____
(NO INITIALS)

RECEIVED ABOVE MATERIAL IN GOOD CONDITION
FIRM _____ DATE _____
BY _____ TIME _____ ☐ AM ☐ PM

Solid waste being interpreted to mean only solid waste or waste containing animal and vegetable matter, rubbish, trash, debris, ashes and metal non-toxic sludge and other waste materials which is not a radioactive volatile, highly flammable explosive toxic or hazardous nature as listed.

White Copy - *Riccelli* Yellow Copy - *Driver* Pink Copy - *Land Fill* Gold Copy - *Shipper*

RICCELLI ENTERPRISES INC

Syracuse
P.O. Box 6418
Syracuse, NY 13217
(315) 433-5115

Rochester
6800 W. Henrietta Road
Rush, NY 14543
(585) 344-8410

Geneva
1210 Gifford Road
Phelps, NY 14532
(315) 548-4049

5020

NON-HAZARDOUS SOLID WASTE MANIFEST

TRANSPORTER	DATE	TIME IN	/ OUT
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217	8/14/17	0730	0745
TRUCK # 523	TRAILER # 600		

CONSIGNEE	SHIPPER
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217 7A-402 PHONE # (315) 433-5115	UNISYS Corporation 3199 Pilot Knob Road MSF1B05 Eagan, Minnesota 55121 PHONE # 651-212-7273 NYR000231571

NO. PIECES	ARTICLES OR DESCRIPTION		WEIGHT
Estimated 30 Tons	Non-DOT / Non-RCRA Regulated Soils	WEIGHT IN	
		WEIGHT OUT	
		BILLED WEIGHT	

A- Agent for Unisys

SHIPPER SIGNATURE _____ PRINT NAME Adrian Pavia

DRIVER SIGNATURE John C Johnson PRINT NAME John Johnson

SPECIAL INSTRUCTIONS:
Approval #: PROFILE # 7687
WR4-5 SECTION 2

DESTINATION: Casella
Ontario City LF
1488 Cnty Rte 60
Lowman, NY 14861 STANLEY, NY

U.S. EPA ID Number:
NYR000092654

FOR APPROVAL: _____
CONSIGNEE PRINT NAME _____
CONSIGNEE SIGN HERE _____
(NO INITIALS)

RECEIVED ABOVE MATERIAL IN GOOD CONDITION
FIRM _____ DATE _____ ☐ AM ☐ PM
BY _____ TIME _____

Solid waste being interpreted to mean only solid waste or waste containing animal and vegetable matter, rubbish, trash, debris, ashes and metal non-toxic sludge and other waste materials which is not a radioactive volatile, highly flammable explosive toxic or hazardous nature as listed.

White Copy - *Riccelli* Yellow Copy - *Driver* Pink Copy - *Land Fill* Gold Copy - *Shipper*

RICCELLI ENTERPRISES

Syracuse
P.O. Box 6418
Syracuse, NY 13217
(315) 433-5115

Rochester
6800 W. Henrietta Road
Rush, NY 14543
(585) 344-8410

Geneva
1210 Gifford Road
Phelps, NY 14532
(315) 548-4049

5021

NON-HAZARDOUS SOLID WASTE MANIFEST

TRANSPORTER	DATE	TIME IN / OUT	
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217	8/14/17	0750	0900
TRUCK # 315	TRAILER # N/A		

CONSIGNEE	SHIPPER
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217 7A-402 PHONE # (315) 433-5115	UNISYS Corporation 3199 Pilot Knob Road MSF1B05 Eagan, Minnesota 55121 PHONE # 651-212-7273 NYR000231571

NO. PIECES	ARTICLES OR DESCRIPTION		WEIGHT
Estimated 30 Tons 22 TONS	Non-DOT / Non-RCRA Regulated Soils	WEIGHT IN	
		WEIGHT OUT	
		BILLED WEIGHT	

SHIPPER SIGNATURE As agent for Unisys Adam Ramos PRINT NAME Adam Ramos

DRIVER SIGNATURE [signature] PRINT NAME Diane Baumann

SPECIAL INSTRUCTIONS:
Approval #: PROFILE # 7682 WR4-5 SECTION 2

DESTINATION: Casella
Ontario City LF
1488 Cnty Rte 60
Lowman, NY 14861

U.S. EPA ID Number:
NYR000092654

FOR APPROVAL: _____

CONSIGNEE PRINT NAME _____

CONSIGNEE SIGN HERE _____
(NO INITIALS)

RECEIVED ABOVE MATERIAL IN GOOD CONDITION

FIRM _____ DATE _____

BY _____ TIME _____ ☐ AM ☐ PM

Solid waste being interpreted to mean only solid waste or waste containing animal and vegetable matter, rubbish, trash, debris, ashes and metal non-toxic sludge and other waste materials which is not a radioactive volatile, highly flammable explosive toxic or hazardous nature as listed.

White Copy - *Riccelli* Yellow Copy - *Driver* Pink Copy - *Land Fill* Gold Copy - *Shipper*

RICCELLI ENTERPRISES INC

Syracuse
P.O. Box 6418
Syracuse, NY 13217
(315) 433-5115

Rochester
6800 W. Henrietta Road
Rush, NY 14543
(585) 344-8410

Geneva
1210 Gifford Road
Phelps, NY 14532
(315) 548-4049

5022

NON-HAZARDOUS SOLID WASTE MANIFEST

TRANSPORTER	DATE	TIME IN / OUT	
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217	8/14/17	0800	0810
TRUCK # 73	TRAILER # N/A		

CONSIGNEE	SHIPPER
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217 7A-402 PHONE # (315) 433-5115	UNISYS Corporation 3199 Pilot Knob Road MSF1B05 Eagan, Minnesota 55121 PHONE # 651-212-7273 NYR000231571

NO. PIECES	ARTICLES OR DESCRIPTION		WEIGHT
Estimated 30 Tons 22 TONS	Non-DOT / Non-RCRA Regulated Soils	WEIGHT IN	
		WEIGHT OUT	
		BILLED WEIGHT	

SHIPPER SIGNATURE Agent for UNISYS Mgmt PRINT NAME Agent for UNISYS Mgmt

DRIVER SIGNATURE Phil DeSain PRINT NAME Phil DeSain

SPECIAL INSTRUCTIONS:
Approval #: Profile # 7682
WR 4-5 Section 2

DESTINATION: Casella
Ontario City LF
1488 Cnty Rte 60
Lowman, NY 14861 STANLEY, NY

U.S. EPA ID Number:
NYR000092654

FOR APPROVAL: _____

CONSIGNEE PRINT NAME _____

CONSIGNEE SIGN HERE _____
(NO INITIALS)

RECEIVED ABOVE MATERIAL IN GOOD CONDITION

FIRM _____ DATE _____

BY _____ TIME _____ ☐ AM ☐ PM

Solid waste being interpreted to mean only solid waste or waste containing animal and vegetable matter, rubbish, trash, debris, ashes and metal non-toxic sludge and other waste materials which is not a radioactive volatile, highly flammable explosive toxic or hazardous nature as listed.

White Copy - *Riccelli* Yellow Copy - *Driver* Pink Copy - *Land Fill* Gold Copy - *Shipper*

RICCELLI ENTERPRISES INC

Syracuse
P.O. Box 6418
Syracuse, NY 13217
(315) 433-5115

Rochester
6800 W. Henrietta Road
Rush, NY 14543
(585) 344-8410

Geneva
1210 Gifford Road
Phelps, NY 14532
(315) 548-4049

5023

NON-HAZARDOUS SOLID WASTE MANIFEST

TRANSPORTER	DATE	TIME IN / OUT	
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217	8/14/17	0810	0820
TRUCK # 327	TRAILER # N/A		

CONSIGNEE	SHIPPER
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217 7A-402 PHONE # (315) 433-5115	UNISYS Corporation 3199 Pilot Knob Road MSF1B05 Eagan, Minnesota 55121 PHONE # 651-212-7273 NYR000231571

NO. PIECES	ARTICLES OR DESCRIPTION	WEIGHT
Estimated ~~30 Tons~~ 22 TONS	Non-DOT / Non-RCRA Regulated Soils	**WEIGHT IN** **WEIGHT OUT** **BILLED WEIGHT**

SHIPPER SIGNATURE _____ PRINT NAME _____

DRIVER SIGNATURE _____ PRINT NAME _____

SPECIAL INSTRUCTIONS:
Approval #: PROFILE # 76032
WR 4-5 SECTION 2

DESTINATION: Casella
Ontario City LF
~~1488 Cnty Rte 60~~
Lowman, NY 14861 STANLEY NY

U.S. EPA ID Number:
NYR000092654

FOR APPROVAL: _____
CONSIGNEE PRINT NAME _____
CONSIGNEE SIGN HERE _____
(NO INITIALS)

RECEIVED ABOVE MATERIAL IN GOOD CONDITION

FIRM _____ DATE _____
BY _____ TIME _____ ☐ AM ☐ PM

Solid waste being interpreted to mean only solid waste or waste containing animal and vegetable matter, rubbish, trash, debris, ashes and metal non-toxic sludge and other waste materials which is not a radioactive volatile, highly flammable explosive toxic or hazardous nature as listed.

White Copy - *Riccelli* Yellow Copy - *Driver* Pink Copy - *Land Fill* Gold Copy - *Shipper*

RICCELLI ENTERPRISES INC

Syracuse
P.O. Box 6418
Syracuse, NY 13217
(315) 433-5115

Rochester
6800 W. Henrietta Road
Rush, NY 14543
(585) 344-8410

Geneva
1210 Gifford Road
Phelps, NY 14532
(315) 548-4049

5024

NON-HAZARDOUS SOLID WASTE MANIFEST

TRANSPORTER	DATE	TIME IN / OUT	
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217	8/14/17	0830	0840
TRUCK # 60	TRAILER # N/A		

CONSIGNEE	SHIPPER
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217 7A-402 PHONE # (315) 433-5115	UNISYS Corporation 3199 Pilot Knob Road MSF1B05 Eagan, Minnesota 55121 PHONE # 651-212-7273 NYR000231571

NO. PIECES	ARTICLES OR DESCRIPTION	WEIGHT
Estimated 30 Tons 22 TONS	Non-DOT / Non-RCRA Regulated Soils	**WEIGHT IN** **WEIGHT OUT** **BILLED WEIGHT**

SHIPPER SIGNATURE _____ PRINT NAME _____

DRIVER SIGNATURE Terrance Moody PRINT NAME Terrance Moody

SPECIAL INSTRUCTIONS:
Approval #: PROFILE # 76852 WR9-5 SECTION 2

DESTINATION: Casella
Ontario City LF
~~1488 Cnty Rte 60~~
~~Lowman, NY 14861~~ STANLEY, NY

U.S. EPA ID Number:
NYR000092654

FOR APPROVAL: _____

CONSIGNEE PRINT NAME _____

CONSIGNEE SIGN HERE _____
(NO INITIALS)

RECEIVED ABOVE MATERIAL IN GOOD CONDITION

FIRM _____ DATE _____ ☐ AM ☐ PM

BY _____ TIME _____

Solid waste being interpreted to mean only solid waste or waste containing animal and vegetable matter, rubbish, trash, debris, ashes and metal non-toxic sludge and other waste materials which is not a radioactive volatile, highly flammable explosive toxic or hazardous nature as listed.

White Copy - *Riccelli* Yellow Copy - *Driver* Pink Copy - *Land Fill* Gold Copy - *Shipper*

RICCELLI ENTERPRISES INC

Syracuse
P.O. Box 6418
Syracuse, NY 13217
(315) 433-5115

Rochester
6800 W. Henrietta Road
Rush, NY 14543
(585) 344-8410

Geneva
1210 Gifford Road
Phelps, NY 14532
(315) 548-4049

5025

NON-HAZARDOUS SOLID WASTE MANIFEST

TRANSPORTER	DATE	TIME IN	/ OUT
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217	8/14/17	0840	0850
TRUCK # 41	TRAILER # N/A		

CONSIGNEE	SHIPPER
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217 7A-402 PHONE # (315) 433-5115	UNISYS Corporation 3199 Pilot Knob Road MSF1B05 Eagan, Minnesota 55121 PHONE # 651-212-7273 NYR000231571

NO. PIECES	ARTICLES OR DESCRIPTION	WEIGHT
Estimated ~~30 Tons~~ 22 Tons	Non-DOT / Non-RCRA Regulated Soils	**WEIGHT IN** **WEIGHT OUT** **BILLED WEIGHT**

SHIPPER SIGNATURE Agent for Unisys Ashwin Rama PRINT NAME Ashwin Rama

DRIVER SIGNATURE Zac Stone PRINT NAME Zac Stone Kramer

SPECIAL INSTRUCTIONS:
Approval #: PROFILE # 7682
WR4-5 SECTION 1

DESTINATION: Casella
Ontario City LF
~~1488 Cnty Rte 60~~
~~Lowman, NY 14861~~ STANLEY, NY

U.S. EPA ID Number:
NYR000092654

FOR APPROVAL: _____

CONSIGNEE PRINT NAME _____

CONSIGNEE SIGN HERE _____
(NO INITIALS)

RECEIVED ABOVE MATERIAL IN GOOD CONDITION

FIRM _____ DATE _____

BY _____ TIME _____ ☐ AM ☐ PM

Solid waste being interpreted to mean only solid waste or waste containing animal and vegetable matter, rubbish, trash, debris, ashes and metal non-toxic sludge and other waste materials which is not a radioactive volatile, highly flammable explosive toxic or hazardous nature as listed.

White Copy - *Riccelli* Yellow Copy - *Driver* Pink Copy - *Land Fill* Gold Copy - *Shipper*

RICCELLI ENTERPRISES INC

Syracuse
P.O. Box 6418
Syracuse, NY 13217
(315) 433-5115

Rochester
6800 W. Henrietta Road
Rush, NY 14543
(585) 344-8410

Geneva
1210 Gifford Road
Phelps, NY 14532
(315) 548-4049

5026

NON-HAZARDOUS SOLID WASTE MANIFEST

TRANSPORTER	DATE	TIME IN / OUT	
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217	8/14/17	0850	0900
TRUCK # 94	TRAILER # N/A		

CONSIGNEE	SHIPPER
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217 7A-402 PHONE # (315) 433-5115	UNISYS Corporation 3199 Pilot Knob Road MSF1B05 Eagan, Minnesota 55121 PHONE # 651-212-7273 NYR000231571

NO. PIECES	ARTICLES OR DESCRIPTION		WEIGHT
Estimated ~~30 Tons~~ 22 TONS	Non-DOT / Non-RCRA Regulated Soils	WEIGHT IN	
		WEIGHT OUT	
		BILLED WEIGHT	

SHIPPER SIGNATURE As agent for Unisys Corporation PRINT NAME Dawn Rowe

DRIVER SIGNATURE _____ PRINT NAME _____

SPECIAL INSTRUCTIONS:
Approval #: PROFILE # 7682
WR4-5 SECTION 1

DESTINATION: Casella
Ontario City LF
~~1488 Cnty Rte 60~~
Lowman, NY 14861 - STANLEY, NY

U.S. EPA ID Number:
NYR000092654

FOR APPROVAL: _____
CONSIGNEE PRINT NAME Dawn Rowe
CONSIGNEE SIGN HERE _____
(NO INITIALS)

RECEIVED ABOVE MATERIAL IN GOOD CONDITION
FIRM _____ DATE _____
BY _____ TIME _____ ☐ AM ☐ PM

Solid waste being interpreted to mean only solid waste or waste containing animal and vegetable matter, rubbish, trash, debris, ashes and metal non-toxic sludge and other waste materials which is not a radioactive volatile, highly flammable explosive toxic or hazardous nature as listed.

White Copy - *Riccelli* Yellow Copy - *Driver* Pink Copy - *Land Fill* Gold Copy - *Shipper*

RICCELLI ENTERPRISES INC

Syracuse
P.O. Box 6418
Syracuse, NY 13217
(315) 433-5115

Rochester
6800 W. Henrietta Road
Rush, NY 14543
(585) 344-8410

Geneva
1210 Gifford Road
Phelps, NY 14532
(315) 548-4049

5027

NON-HAZARDOUS SOLID WASTE MANIFEST

TRANSPORTER	DATE	TIME IN / OUT	
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217	8/14/17	1220	1235
TRUCK # 505	TRAILER # 209		

CONSIGNEE	SHIPPER
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217 7A-402 PHONE # (315) 433-5115	UNISYS Corporation 3199 Pilot Knob Road MSF1B05 Eagan, Minnesota 55121 PHONE # 651-212-7273 NYR000231571

NO. PIECES	ARTICLES OR DESCRIPTION	WEIGHT
Estimated 30 Tons	Non-DOT / Non-RCRA Regulated Soils	**WEIGHT IN**
		WEIGHT OUT
		BILLED WEIGHT

Received for Unisys Ahuja Ranga Rao

SHIPPER SIGNATURE _____ PRINT NAME Ahuja Ranga Rao

DRIVER SIGNATURE _____ PRINT NAME [illegible]

SPECIAL INSTRUCTIONS:
Approval #: PROFILE # 7632
WR 4-5 SECTION 1

DESTINATION: Casella
Ontario City LF
~~1488 Cnty Rte 60~~
~~Lowman, NY 14861~~ STANLEY, NY

U.S. EPA ID Number:
NYR000092654

FOR APPROVAL: _____

CONSIGNEE PRINT NAME _____

CONSIGNEE SIGN HERE _____
(NO INITIALS)

RECEIVED ABOVE MATERIAL IN GOOD CONDITION

FIRM _____ DATE _____

BY _____ TIME _____ ☐ AM ☐ PM

Solid waste being interpreted to mean only solid waste or waste containing animal and vegetable matter, rubbish, trash, debris, ashes and metal non-toxic sludge and other waste materials which is not a radioactive volatile, highly flammable explosive toxic or hazardous nature as listed.

White Copy - *Riccelli* Yellow Copy - *Driver* Pink Copy - *Land Fill* Gold Copy - *Shipper*

RICCELLI ENTERPRISES INC

Syracuse
P.O. Box 6418
Syracuse, NY 13217
(315) 433-5115

Rochester
6800 W. Henrietta Road
Rush, NY 14543
(585) 344-8410

Geneva
1210 Gifford Road
Phelps, NY 14532
(315) 548-4049

5028

NON-HAZARDOUS SOLID WASTE MANIFEST

TRANSPORTER	DATE	TIME IN / OUT	
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217	9/14/17	1240	1250
TRUCK # 315	TRAILER # N/A		

CONSIGNEE	SHIPPER
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217 7A-402 PHONE # (315) 433-5115	UNISYS Corporation 3199 Pilot Knob Road MSF1B05 Eagan, Minnesota 55121 PHONE # 651-212-7273 NYR000231571

NO. PIECES	ARTICLES OR DESCRIPTION		WEIGHT
Estimated 30 Tons 22 Tons	Non-DOT / Non-RCRA Regulated Soils	WEIGHT IN	
		WEIGHT OUT	
		BILLED WEIGHT	

SHIPPER SIGNATURE (Agent for Unisys) Adam PRINT NAME Adam Rapp

DRIVER SIGNATURE DSF PRINT NAME Dave Fuma

SPECIAL INSTRUCTIONS:
Approval #: PROFILE # 7682

WR4-5 SECTION 1

DESTINATION: Casella
Ontario City LF
1488 Cnty Rte 60
Lowman, NY 14861 - Stanley, NY

U.S. EPA ID Number:
NYR000092654

FOR APPROVAL: _____
CONSIGNEE PRINT NAME _____
CONSIGNEE SIGN HERE (NO INITIALS) _____

RECEIVED ABOVE MATERIAL IN GOOD CONDITION
FIRM _____ DATE _____
BY _____ TIME _____ ☐ AM ☐ PM

Solid waste being interpreted to mean only solid waste or waste containing animal and vegetable matter, rubbish, trash, debris, ashes and metal non-toxic sludge and other waste materials which is not a radioactive volatile, highly flammable explosive toxic or hazardous nature as listed.

White Copy - *Riccelli* Yellow Copy - *Driver* Pink Copy

RICCELLI ENTERPRISES INC

Syracuse
P.O. Box 6418
Syracuse, NY 13217
(315) 433-5115

Rochester
6800 W. Henrietta Road
Rush, NY 14543
(585) 344-8410

Geneva
1210 Gifford Road
Phelps, NY 14532
(315) 548-4049

5029

NON-HAZARDOUS SOLID WASTE MANIFEST

TRANSPORTER	DATE	TIME IN / OUT	
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217	8/14/17	1311	1325
TRUCK # 73	TRAILER # N/A		

CONSIGNEE	SHIPPER
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217 7A-402 PHONE # (315) 433-5115	UNISYS Corporation 3199 Pilot Knob Road MSF1B05 Eagan, Minnesota 55121 PHONE # 651-212-7273 NYR000231571

NO. PIECES	ARTICLES OR DESCRIPTION		WEIGHT
Estimated ~~30~~ Tons 22 Tons	Non-DOT / Non-RCRA Regulated Soils	WEIGHT IN	
		WEIGHT OUT	
		BILLED WEIGHT	

SHIPPER SIGNATURE As agent for Unisys Above PRINT NAME Above Ramos

DRIVER SIGNATURE Phil DeSain PRINT NAME Phil DeSain

SPECIAL INSTRUCTIONS:
Approval #: PROFILE #7682

WES-6 SECTION 1

DESTINATION: Casella
Ontario City LF
~~1488 Cnty Rte 60~~
~~Lowman, NY 14861~~ STANLEY, NY

U.S. EPA ID Number:
NYR000092654

FOR APPROVAL: _____
CONSIGNEE PRINT NAME _____
CONSIGNEE SIGN HERE _____
(NO INITIALS)

RECEIVED ABOVE MATERIAL IN GOOD CONDITION
FIRM _____ DATE _____
BY _____ TIME _____ ☐ AM ☐ PM

Solid waste being interpreted to mean only solid waste or waste containing animal and vegetable matter, rubbish, trash, debris, ashes and metal non-toxic sludge and other waste materials which is not a radioactive volatile, highly flammable explosive toxic or hazardous nature as listed.

White Copy - *Riccelli* Yellow Copy - *Driver* Pink Copy - *Land Fill* Gold Copy - *Shipper*

RICCELLI ENTERPRISES INC

Syracuse
P.O. Box 6418
Syracuse, NY 13217
(315) 433-5115

Rochester
6800 W. Henrietta Road
Rush, NY 14543
(585) 344-8410

Geneva
1210 Gifford Road
Phelps, NY 14532
(315) 548-4049

5030

NON-HAZARDOUS SOLID WASTE MANIFEST

TRANSPORTER	DATE	TIME IN	/ OUT
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217	8/14/17	1325	1340
TRUCK # 509	TRAILER # 223		

CONSIGNEE	SHIPPER
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217 7A-402 PHONE # (315) 433-5115	UNISYS Corporation 3199 Pilot Knob Road MSF1B05 Eagan, Minnesota 55121 PHONE # 651-212-7273 NYR000231571

NO. PIECES	ARTICLES OR DESCRIPTION		WEIGHT
Estimated 30 Tons	Non-DOT / Non-RCRA Regulated Soils	**WEIGHT IN**	
		WEIGHT OUT	
		BILLED WEIGHT	

SHIPPER SIGNATURE As agent for Unisys _____ PRINT NAME _____

DRIVER SIGNATURE _____ PRINT NAME _____

SPECIAL INSTRUCTIONS:
Approval #: PEORIA # 7682
WRS-6 SECTION 1

DESTINATION: Casella
Ontario City LF
~~1488 Cnty Rte 60~~
~~Lowman, NY 14861~~ STANLEY, NY

U.S. EPA ID Number:
NYR000092654

FOR APPROVAL: _____

CONSIGNEE PRINT NAME _____

CONSIGNEE SIGN HERE _____
(NO INITIALS)

RECEIVED ABOVE MATERIAL IN GOOD CONDITION

FIRM _____ DATE _____

BY _____ TIME _____ ☐ AM ☐ PM

Solid waste being interpreted to mean only solid waste or waste containing animal and vegetable matter, rubbish, trash, debris, ashes and metal non-toxic sludge and other waste materials which is not a radioactive volatile, highly flammable explosive toxic or hazardous nature as listed.

White Copy - *Riccelli* Yellow Copy - *Driver* Pink Copy - *Land Fill* Gold Copy - *Shipper*

RICCELLI ENTERPRISES INC

Syracuse
P.O. Box 6418
Syracuse, NY 13217
(315) 433-5115

Rochester
6800 W. Henrietta Road
Rush, NY 14543
(585) 344-8410

Geneva
1210 Gifford Road
Phelps, NY 14532
(315) 548-4049

5031

NON-HAZARDOUS SOLID WASTE MANIFEST

TRANSPORTER	DATE	TIME IN	/ OUT
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217	8/14/17	1335	1345
TRUCK # 327	TRAILER # N/A		

CONSIGNEE	SHIPPER
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217 7A-402 PHONE # (315) 433-5115	UNISYS Corporation 3199 Pilot Knob Road MSF1B05 Eagan, Minnesota 55121 PHONE # 651-212-7273 NYR000231571

NO. PIECES	ARTICLES OR DESCRIPTION	WEIGHT
Estimated ~~30 Tons~~ 22 TONS	Non-DOT / Non-RCRA Regulated Soils	**WEIGHT IN** **WEIGHT OUT** **BILLED WEIGHT**

SHIPPER SIGNATURE Agent for Unisys PRINT NAME

DRIVER SIGNATURE Mark 1 PRINT NAME Mark F.

SPECIAL INSTRUCTIONS:
Approval #: PROFILE #76832 WRS-6 SECTION 1

DESTINATION: Casella
Ontario City LF
~~1488 Cnty Rte 60~~
~~Lowman, NY 14861~~ STANLEY, NY

U.S. EPA ID Number:
NYR000092654

FOR APPROVAL: _____

CONSIGNEE PRINT NAME _____

CONSIGNEE SIGN HERE _____
(NO INITIALS)

RECEIVED ABOVE MATERIAL IN GOOD CONDITION

FIRM _____ DATE _____

BY _____ TIME _____ ☐ AM ☐ PM

Solid waste being interpreted to mean only solid waste or waste containing animal and vegetable matter, rubbish, trash, debris, ashes and metal non-toxic sludge and other waste materials which is not a radioactive volatile, highly flammable explosive toxic or hazardous nature as listed.

White Copy - *Riccelli* Yellow Copy - *Driver* Pink Copy - *Land Fill* Gold Copy - *Shipper*

RICCELLI ENTERPRISES INC

Syracuse
P.O. Box 6418
Syracuse, NY 13217
(315) 433-5115

Rochester
6800 W. Henrietta Road
Rush, NY 14543
(585) 344-8410

Geneva
1210 Gifford Road
Phelps, NY 14532
(315) 548-4049

5032

NON-HAZARDOUS SOLID WASTE MANIFEST

TRANSPORTER	DATE	TIME IN / OUT	
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217	8/14/17	1350	1400
TRUCK # 60	TRAILER # N/A		

CONSIGNEE	SHIPPER
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217 7A-402 PHONE # (315) 433-5115	UNISYS Corporation 3199 Pilot Knob Road MSF1B05 Eagan, Minnesota 55121 PHONE # 651-212-7273 NYR000231571

NO. PIECES	ARTICLES OR DESCRIPTION		WEIGHT
Estimated ~~30 Tons~~ 22 TON	Non-DOT / Non-RCRA Regulated Soils	WEIGHT IN	
		WEIGHT OUT	
		BILLED WEIGHT	

SHIPPER SIGNATURE _____ PRINT NAME _____

DRIVER SIGNATURE _____ PRINT NAME Jerrod Moody

SPECIAL INSTRUCTIONS:
Approval #: PROFILE #7682
WRS-6 SECTION 1

DESTINATION: Casella
Ontario City LF
~~1488 Cnty Rte 60~~
~~Lowman, NY 14861~~ STANLEY, NY

U.S. EPA ID Number:
NYR000092654

FOR APPROVAL: _____
CONSIGNEE PRINT NAME _____
CONSIGNEE SIGN HERE _____
(NO INITIALS)

RECEIVED ABOVE MATERIAL IN GOOD CONDITION
FIRM _____ DATE _____
BY _____ TIME _____ ☐ AM ☐ PM

Solid waste being interpreted to mean only solid waste or waste containing animal and vegetable matter, rubbish, trash, debris, ashes and metal non-toxic sludge and other waste materials which is not a radioactive volatile, highly flammable explosive toxic or hazardous nature as listed.

White Copy - *Riccelli* Yellow Copy - *Driver* Pink Copy - *Land Fill* Gold Copy - *Shipper*

RICCELLI ENTERPRISES INC

Syracuse
P.O. Box 6418
Syracuse, NY 13217
(315) 433-5115

Rochester
6800 W. Henrietta Road
Rush, NY 14543
(585) 344-8410

Geneva
1210 Gifford Road
Phelps, NY 14532
(315) 548-4049

5033

NON-HAZARDOUS SOLID WASTE MANIFEST

TRANSPORTER	DATE	TIME IN	/ OUT
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217	8/14/17	1400	1410
TRUCK # 41	TRAILER # N/A		

CONSIGNEE	SHIPPER
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217 7A-402 PHONE # (315) 433-5115	UNISYS Corporation 3199 Pilot Knob Road MSF1B05 Eagan, Minnesota 55121 PHONE # 651-212-7273 NYR000231571

NO. PIECES	ARTICLES OR DESCRIPTION		WEIGHT
Estimated ~~30 Tons~~ 22 TONS	Non-DOT / Non-RCRA Regulated Soils	**WEIGHT IN**	
		WEIGHT OUT	
		BILLED WEIGHT	

SHIPPER SIGNATURE _____ PRINT NAME _____

DRIVER SIGNATURE Steve Kinner PRINT NAME Steve Kinner

SPECIAL INSTRUCTIONS:
Approval #: PROFILE #7082 WRS-6 SECTION 1

DESTINATION: Casella
Ontario City LF
~~1488 Cnty Rte 60~~
~~Lowman, NY 14861~~ STANLEY, NY

U.S. EPA ID Number:
NYR000092654

FOR APPROVAL: _____

CONSIGNEE PRINT NAME _____

CONSIGNEE SIGN HERE _____
(NO INITIALS)

RECEIVED ABOVE MATERIAL IN GOOD CONDITION

FIRM _____ DATE _____ ☐ AM ☐ PM

BY _____ TIME _____

Solid waste being interpreted to mean only solid waste or waste containing animal and vegetable matter, rubbish, trash, debris, ashes and metal non-toxic sludge and other waste materials which is not a radioactive volatile, highly flammable explosive toxic or hazardous nature as listed.

White Copy - *Riccelli* Yellow Copy - *Driver* Pink Copy - *Land Fill* Gold Copy - *Shipper*

RICCELLI ENTERPRISES INC

Syracuse
P.O. Box 6418
Syracuse, NY 13217
(315) 433-5115

Rochester
6800 W. Henrietta Road
Rush, NY 14543
(585) 344-8410

Geneva
1210 Gifford Road
Phelps, NY 14532
(315) 548-4049

5034

NON-HAZARDOUS SOLID WASTE MANIFEST

TRANSPORTER	DATE	TIME IN	/ OUT
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217	8/14/17	1405	1415
TRUCK # 94	TRAILER # N/A		

CONSIGNEE	SHIPPER
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217 7A-402 PHONE # (315) 433-5115	UNISYS Corporation 3199 Pilot Knob Road MSF1B05 Eagan, Minnesota 55121 PHONE # 651-212-7273 NYR000231571

NO. PIECES	ARTICLES OR DESCRIPTION		WEIGHT
Estimated ~~30 Tons~~ 22 TONS	Non-DOT / Non-RCRA Regulated Soils	**WEIGHT IN**	
		WEIGHT OUT	
		BILLED WEIGHT	

SHIPPER SIGNATURE _____ PRINT NAME _____

DRIVER SIGNATURE _____ PRINT NAME _____

SPECIAL INSTRUCTIONS:
Approval #: PROFILE # 7682
WRS-6 SECTION 1

DESTINATION: Casella
Ontario City LF
1488 ~~Cnty Rte~~ 60
Lowman, ~~NY 14861~~ STANLEY, NY

U.S. EPA ID Number:
NYR000092654

FOR APPROVAL: _____
CONSIGNEE PRINT NAME Dawn Moon
CONSIGNEE SIGN HERE _____
(NO INITIALS)

RECEIVED ABOVE MATERIAL IN GOOD CONDITION
FIRM _____ DATE _____
BY _____ TIME _____ ☐ AM ☐ PM

Solid waste being interpreted to mean only solid waste or waste containing animal and vegetable matter, rubbish, trash, debris, ashes and metal non-toxic sludge and other waste materials which is not a radioactive volatile, highly flammable explosive toxic or hazardous nature as listed.

White Copy - *Riccelli* Yellow Copy - *Driver* Pink Copy - *Land Fill* Gold Copy - *Shipper*

RICCELLI ENTERPRISES INC

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P.O. Box 6418
Syracuse, NY 13217
(315) 433-5115

Rochester
6800 W. Henrietta Road
Rush, NY 14543
(585) 344-8410

Geneva
1210 Gifford Road
Phelps, NY 14532
(315) 548-4049

5035

NON-HAZARDOUS SOLID WASTE MANIFEST

TRANSPORTER	DATE	TIME IN	/ OUT
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217	8/15/17	0655	0710
TRUCK # 504	TRAILER # 223		

CONSIGNEE	SHIPPER
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217 7A-402 PHONE # (315) 433-5115	UNISYS Corporation 3199 Pilot Knob Road MSF1B05 Eagan, Minnesota 55121 PHONE # 651-212-7273 NYR000231571

NO. PIECES	ARTICLES OR DESCRIPTION		WEIGHT
Estimated 30 Tons	Non-DOT / Non-RCRA Regulated Soils	WEIGHT IN	
		WEIGHT OUT	
		BILLED WEIGHT	

SHIPPER SIGNATURE _____ PRINT NAME _____

DRIVER SIGNATURE _____ PRINT NAME _____

SPECIAL INSTRUCTIONS:
Approval #: PROFILE # 7682
WIR 5-6 SECTION 3

DESTINATION: Casella
Ontario City LF
1488 Cnty Rte 60
Lowman, NY 14861

U.S. EPA ID Number:
NYR000092654

STANLEY, NY

FOR APPROVAL: _____

CONSIGNEE PRINT NAME _____

CONSIGNEE SIGN HERE _____
(NO INITIALS)

RECEIVED ABOVE MATERIAL IN GOOD CONDITION

FIRM _____ DATE _____

BY _____ TIME _____ ☐ AM ☐ PM

Solid waste being interpreted to mean only solid waste or waste containing animal and vegetable matter, rubbish, trash, debris, ashes and metal non-toxic sludge and other waste materials which is not a radioactive volatile, highly flammable explosive toxic or hazardous nature as listed.

White Copy - *Riccelli* Yellow Copy - *Driver* Pink Copy - *Land Fill* Gold Copy - *Shipper*

RICCELLI ENTERPRISES INC

Syracuse
P.O. Box 6418
Syracuse, NY 13217
(315) 433-5115

Rochester
6800 W. Henrietta Road
Rush, NY 14543
(585) 344-8410

Geneva
1210 Gifford Road
Phelps, NY 14532
(315) 548-4049

5036

NON-HAZARDOUS SOLID WASTE MANIFEST

TRANSPORTER	DATE	TIME IN	/ OUT
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217	8/15/17	0705	0720
TRUCK # 505	TRAILER # 209		

CONSIGNEE	SHIPPER
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217 7A-402 PHONE # (315) 433-5115	UNISYS Corporation 3199 Pilot Knob Road MSF1B05 Eagan, Minnesota 55121 PHONE # 651-212-7273 NYR000231571

NO. PIECES	ARTICLES OR DESCRIPTION		WEIGHT
1 Estimated 30 Tons	Non-DOT / Non-RCRA Regulated Soils	WEIGHT IN	
		WEIGHT OUT	
		BILLED WEIGHT	

As agent for Unisys

SHIPPER SIGNATURE Paul J Dano PRINT NAME Paul Nano

DRIVER SIGNATURE Paul J Dano PRINT NAME PAUL NANO

SPECIAL INSTRUCTIONS:
Approval #: PROFILE # 7682
WK 5-6 SECTION 2

DESTINATION: (AR)
Casella
Ontario City LF
1488 Cnty Rte 60
Lowman, NY 14861
STANLEY, NY

U.S. EPA ID Number:
NYR000092654

FOR APPROVAL: _____
CONSIGNEE PRINT NAME _____
CONSIGNEE SIGN HERE _____ (NO INITIALS)

RECEIVED ABOVE MATERIAL IN GOOD CONDITION
FIRM _____ DATE _____
BY _____ TIME _____ ☐ AM ☐ PM

Solid waste being interpreted to mean only solid waste or waste containing animal and vegetable matter, rubbish, trash, debris, ashes and metal non-toxic sludge and other waste materials which is not a radioactive volatile, highly flammable explosive toxic or hazardous nature as listed.

White Copy - *Riccelli* Yellow Copy - *Driver* Pink Copy - *Land Fill* Gold Copy - *Shipper*

RICCELLI ENTERPRISES INC

Syracuse
P.O. Box 6418
Syracuse, NY 13217
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Rochester
6800 W. Henrietta Road
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(585) 344-8410

Geneva
1210 Gifford Road
Phelps, NY 14532
(315) 548-4049

5037

NON-HAZARDOUS SOLID WASTE MANIFEST

TRANSPORTER	DATE	TIME IN / OUT	
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217	8/15/17	0740	0755
TRUCK # 516	TRAILER # 221		

CONSIGNEE	SHIPPER
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217 7A-402 PHONE # (315) 433-5115	UNISYS Corporation 3199 Pilot Knob Road MSF1B05 Eagan, Minnesota 55121 PHONE # 651-212-7273 NYR000231571

NO. PIECES	ARTICLES OR DESCRIPTION		WEIGHT
Estimated 30 Tons	Non-DOT / Non-RCRA Regulated Soils	**WEIGHT IN**	
		WEIGHT OUT	
		BILLED WEIGHT	

SHIPPER SIGNATURE As Agent for Unisys PRINT NAME Adam Barr

DRIVER SIGNATURE [signature] PRINT NAME Tim Zuchioc

SPECIAL INSTRUCTIONS:
Approval #: PROFILE # 7682 WR5-6 SECTION 2

DESTINATION: Casella
Ontario City LF
1488 Cnty Rte 60
Lowman, NY 14861

U.S. EPA ID Number:
NYR000092654

STANLEY, NY

FOR APPROVAL: _____

CONSIGNEE PRINT NAME _____

CONSIGNEE SIGN HERE _____
(NO INITIALS)

RECEIVED ABOVE MATERIAL IN GOOD CONDITION

FIRM _____ DATE _____ ☐ AM ☐ PM

BY _____ TIME _____

Solid waste being interpreted to mean only solid waste or waste containing animal and vegetable matter, rubbish, trash, debris, ashes and metal non-toxic sludge and other waste materials which is not a radioactive volatile, highly flammable explosive toxic or hazardous nature as listed.

White Copy - *Riccelli* Yellow Copy - *Driver* Pink Copy - *Land Fill* Gold Copy - *Shipper*

RICCELLI ENTERPRISES

Syracuse
P.O. Box 6418
Syracuse, NY 13217
(315) 433-5115

Rochester
6800 W. Henrietta Road
Rush, NY 14543
(585) 344-8410

Geneva
1210 Gifford Road
Phelps, NY 14532
(315) 548-4049

5038

NON-HAZARDOUS SOLID WASTE MANIFEST

TRANSPORTER	DATE	TIME IN	/ OUT
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217	8/15/17	1130	1145
TRUCK # 504	TRAILER # 223		

CONSIGNEE	SHIPPER
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217 7A-402 PHONE # (315) 433-5115	UNISYS Corporation 3199 Pilot Knob Road MSF1B05 Eagan, Minnesota 55121 PHONE # 651-212-7273 NYR000231571

NO. PIECES	ARTICLES OR DESCRIPTION	WEIGHT
Estimated 30 Tons	Non-DOT / Non-RCRA Regulated Soils	**WEIGHT IN**
		WEIGHT OUT
		BILLED WEIGHT

SHIPPER SIGNATURE _____ PRINT NAME _____

DRIVER SIGNATURE _____ PRINT NAME _____

SPECIAL INSTRUCTIONS:
Approval #: PROFILE # 7682
WRS-6 SECTION 2

DESTINATION: Casella
Ontario City LF
1488 Cnty Rte 60
Lowman, NY 14861
STANLEY, NY

U.S. EPA ID Number:
NYR000092654

FOR APPROVAL: _____
CONSIGNEE PRINT NAME _____
CONSIGNEE SIGN HERE _____
(NO INITIALS)

RECEIVED ABOVE MATERIAL IN GOOD CONDITION
FIRM _____ DATE _____
BY _____ TIME _____ ☐ AM ☐ PM

Solid waste being interpreted to mean only solid waste or waste containing animal and vegetable matter, rubbish, trash, debris, ashes and metal non-toxic sludge and other waste materials which is not a radioactive volatile, highly flammable explosive toxic or hazardous nature as listed.

White Copy - *Riccelli* Yellow Copy - *Driver* Pink Copy - *Land Fill* Gold Copy - *Shipper*

RICCELLI ENTERPRISES INC

Syracuse
P.O. Box 6418
Syracuse, NY 13217
(315) 433-5115

Rochester
6800 W. Henrietta Road
Rush, NY 14543
(585) 344-8410

Geneva
1210 Gifford Road
Phelps, NY 14532
(315) 548-4049

5039

NON-HAZARDOUS SOLID WASTE MANIFEST

TRANSPORTER	DATE	TIME IN	/ OUT
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217	8/15/17	1140	1155
TRUCK # 505	TRAILER # 209		

CONSIGNEE	SHIPPER
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217 7A-402 PHONE # (315) 433-5115	UNISYS Corporation 3199 Pilot Knob Road MSF1B05 Eagan, Minnesota 55121 PHONE # 651-212-7273 NYR000231571

NO. PIECES	ARTICLES OR DESCRIPTION		WEIGHT
Estimated 30 Tons	Non-DOT / Non-RCRA Regulated Soils	**WEIGHT IN**	
		WEIGHT OUT	
		BILLED WEIGHT	
		Est. 37 Ton	

SHIPPER SIGNATURE A agent for Unisys Adam PRINT NAME Adam Rosen

DRIVER SIGNATURE Paul J. Nino PRINT NAME Paul J. Nino

SPECIAL INSTRUCTIONS:
Approval #: PROFILE # 7682
WES-6 SECTION 2

DESTINATION: Casella
Ontario City LF
1488 Cnty Rte 60
Lowman, NY 14861

U.S. EPA ID Number:
NYR000092654

STANLEY, NY

FOR APPROVAL: _____
CONSIGNEE PRINT NAME _____
CONSIGNEE SIGN HERE _____ (NO INITIALS)

RECEIVED ABOVE MATERIAL IN GOOD CONDITION
FIRM _____ DATE _____
BY _____ TIME _____ ☐ AM ☐ PM

Solid waste being interpreted to mean only solid waste or waste containing animal and vegetable matter, rubbish, trash, debris, ashes and metal non-toxic sludge and other waste materials which is not a radioactive volatile, highly flammable explosive toxic or hazardous nature as listed.

White Copy - *Riccelli* Yellow Copy - *Driver* Pink Copy - *Land Fill* Gold Copy - *Shipper*

RICCELLI ENTERPRISES INC

Syracuse
P.O. Box 6418
Syracuse, NY 13217
(315) 433-5115

Rochester
6800 W. Henrietta Road
Rush, NY 14543
(585) 344-8410

Geneva
1210 Gifford Road
Phelps, NY 14532
(315) 548-4049

5040

NON-HAZARDOUS SOLID WASTE MANIFEST

TRANSPORTER	DATE	TIME IN / OUT	
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217	8/15/17	1150	1205
TRUCK # 516	TRAILER # 221		

CONSIGNEE	SHIPPER
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217 7A-402 PHONE # (315) 433-5115	UNISYS Corporation 3199 Pilot Knob Road MSF1B05 Eagan, Minnesota 55121 PHONE # 651-212-7273 NYR000231571

NO. PIECES	ARTICLES OR DESCRIPTION		WEIGHT
Estimated 30 Tons	Non-DOT / Non-RCRA Regulated Soils	WEIGHT IN	
		WEIGHT OUT	
		BILLED WEIGHT	

As Agent for Unisys Robert R. Thom

SHIPPER SIGNATURE _____ PRINT NAME Robert R. Thom

DRIVER SIGNATURE _____ PRINT NAME Tim Zambrec

SPECIAL INSTRUCTIONS:
Approval #: Profile # 7662

WR 5-6 SECTION 3

DESTINATION: Casella
Ontario City LF
~~1488 Cnty Rte 60~~
Lowman, NY 14861

U.S. EPA ID Number:
NYR000092654

Stanley NY

FOR APPROVAL: _____

CONSIGNEE PRINT NAME _____

CONSIGNEE SIGN HERE _____
(NO INITIALS)

RECEIVED ABOVE MATERIAL IN GOOD CONDITION

FIRM _____ DATE _____

BY _____ TIME _____ ☐ AM ☐ PM

Solid waste being interpreted to mean only solid waste or waste containing animal and vegetable matter, rubbish, trash, debris, ashes and metal non-toxic sludge and other waste materials which is not a radioactive volatile, highly flammable explosive toxic or hazardous nature as listed.

White Copy - *Riccelli* Yellow Copy - *Driver* Pink Copy - *Land Fill* Gold Copy - *Shipper*

RICCELLI ENTERPRISES INC

Syracuse
P.O. Box 6418
Syracuse, NY 13217
(315) 433-5115

Rochester
6800 W. Henrietta Road
Rush, NY 14543
(585) 344-8410

Geneva
1210 Gifford Road
Phelps, NY 14532
(315) 548-4049

5041

NON-HAZARDOUS SOLID WASTE MANIFEST

TRANSPORTER	DATE	TIME IN / OUT	
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217	8/15/17	1215	1230
TRUCK # 507	TRAILER # 600		

CONSIGNEE	SHIPPER
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217 7A-402 PHONE # (315) 433-5115	UNISYS Corporation 3199 Pilot Knob Road MSF1B05 Eagan, Minnesota 55121 PHONE # 651-212-7273 NYR000231571

NO. PIECES	ARTICLES OR DESCRIPTION		WEIGHT
Estimated 30 Tons	Non-DOT / Non-RCRA Regulated Soils	**WEIGHT IN**	
		WEIGHT OUT	
		BILLED WEIGHT	

SHIPPER SIGNATURE As agent for Unisys [signature] PRINT NAME [illegible]

DRIVER SIGNATURE [signature] PRINT NAME Mike Bloom C.C.I.D.

SPECIAL INSTRUCTIONS:
Approval #: PROFILE # 76852
WR 5.6 SECTION 3

DESTINATION: Casella
Ontario City LF
1488 Cnty Rte 60
Lowman, NY 14861 STANLEY, NY

U.S. EPA ID Number:
NYR000092654

FOR APPROVAL: _____

CONSIGNEE PRINT NAME _____

CONSIGNEE SIGN HERE _____
(NO INITIALS)

RECEIVED ABOVE MATERIAL IN GOOD CONDITION

FIRM _____ DATE _____

BY _____ TIME _____ ☐ AM ☐ PM

Solid waste being interpreted to mean only solid waste or waste containing animal and vegetable matter, rubbish, trash, debris, ashes and metal non-toxic sludge and other waste materials which is not a radioactive volatile, highly flammable explosive toxic or hazardous nature as listed.

White Copy - *Riccelli* Yellow Copy - *Driver* Pink Copy - *Land Fill* Gold Copy - *Shipper*

RICCELLI ENTERPRISES INC

Syracuse
P.O. Box 6418
Syracuse, NY 13217
(315) 433-5115

Rochester
6800 W. Henrietta Road
Rush, NY 14543
(585) 344-8410

Geneva
1210 Gifford Road
Phelps, NY 14532
(315) 548-4049

5042

NON-HAZARDOUS SOLID WASTE MANIFEST

TRANSPORTER	DATE	TIME IN / OUT	
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217	8/16/17	0630	0645
TRUCK # 505	TRAILER # 209		

CONSIGNEE	SHIPPER
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217 7A-402 PHONE # (315) 433-5115	UNISYS Corporation 3199 Pilot Knob Road MSF1B05 Eagan, Minnesota 55121 PHONE # 651-212-7273 NYR000231571

NO. PIECES	ARTICLES OR DESCRIPTION		WEIGHT
Estimated 30 Tons	Non-DOT / Non-RCRA Regulated Soils	**WEIGHT IN**	
		WEIGHT OUT	
		BILLED WEIGHT	

SHIPPER SIGNATURE _____ PRINT NAME _____

DRIVER SIGNATURE _____ PRINT NAME _____

SPECIAL INSTRUCTIONS:
Approval #: PROFILE #7682
WIR 5-6 SECTION 3

DESTINATION: Casella
Ontario City LF
1488 Cnty Rte 60
Lowman, NY 14861

U.S. EPA ID Number:
NYR000092654

FOR APPROVAL: _____

CONSIGNEE PRINT NAME _____

CONSIGNEE SIGN HERE _____
(NO INITIALS)

RECEIVED ABOVE MATERIAL IN GOOD CONDITION

FIRM _____ DATE _____

BY _____ TIME _____ ☐ AM ☐ PM

Solid waste being interpreted to mean only solid waste or waste containing animal and vegetable matter, rubbish, trash, debris, ashes and metal non-toxic sludge and other waste materials which is not a radioactive volatile, highly flammable explosive toxic or hazardous nature as listed.

White Copy - *Riccelli* Yellow Copy - *Driver* Pink Copy - *Land Fill* Gold Copy - *Shipper*

RICCELLI ENTERPRISES INC

Syracuse
P.O. Box 6418
Syracuse, NY 13217
(315) 433-5115

Rochester
6800 W. Henrietta Road
Rush, NY 14543
(585) 344-8410

Geneva
1210 Gifford Road
Phelps, NY 14532
(315) 548-4049

5043

NON-HAZARDOUS SOLID WASTE MANIFEST

TRANSPORTER	DATE	TIME IN / OUT	
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217	8/16/17	0640	0655
TRUCK # 504	TRAILER # 223		

CONSIGNEE	SHIPPER
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217 7A-402 PHONE # (315) 433-5115	UNISYS Corporation 3199 Pilot Knob Road MSF1B05 Eagan, Minnesota 55121 PHONE # 651-212-7273 NYR000231571

NO. PIECES	ARTICLES OR DESCRIPTION		WEIGHT
Estimated 30 Tons	Non-DOT / Non-RCRA Regulated Soils	WEIGHT IN	
		WEIGHT OUT	
		BILLED WEIGHT	

SHIPPER SIGNATURE _____ PRINT NAME _____

DRIVER SIGNATURE _____ PRINT NAME _____

SPECIAL INSTRUCTIONS:
Approval #: PROFILE # 7682
WR 4-5 SECTION 3

DESTINATION: Casella
Ontario City LF
1488 Cnty Rte 60
Lowman, NY 14861

U.S. EPA ID Number:
NYR000092654

FOR APPROVAL: _____

CONSIGNEE PRINT NAME _____

CONSIGNEE SIGN HERE _____
(NO INITIALS)

RECEIVED ABOVE MATERIAL IN GOOD CONDITION

FIRM _____ DATE _____

BY _____ TIME _____ ☐ AM ☐ PM

Solid waste being interpreted to mean only solid waste or waste containing animal and vegetable matter, rubbish, trash, debris, ashes and metal non-toxic sludge and other waste materials which is not a radioactive volatile, highly flammable explosive toxic or hazardous nature as listed.

White Copy - *Riccelli* Yellow Copy - *Driver* Pink Copy - *Land Fill* Gold Copy - *Shipper*

RICCELLI ENTERPRISES INC

Syracuse
P.O. Box 6418
Syracuse, NY 13217
(315) 433-5115

Rochester
6800 W. Henrietta Road
Rush, NY 14543
(585) 344-8410

Geneva
1210 Gifford Road
Phelps, NY 14532
(315) 548-4049

5044

NON-HAZARDOUS SOLID WASTE MANIFEST

TRANSPORTER	DATE	TIME IN	/ OUT
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217	8/16/17	0710	0725
TRUCK # 517	TRAILER # 222		

CONSIGNEE	SHIPPER
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217 7A-402 PHONE # (315) 433-5115	UNISYS Corporation 3199 Pilot Knob Road MSF1B05 Eagan, Minnesota 55121 PHONE # 651-212-7273 NYR000231571

NO. PIECES	ARTICLES OR DESCRIPTION		WEIGHT
Estimated 30 Tons	Non-DOT / Non-RCRA Regulated Soils	**WEIGHT IN**	
		WEIGHT OUT	
		BILLED WEIGHT	

SHIPPER SIGNATURE As agent for Unisys Corp PRINT NAME D. Dunn

DRIVER SIGNATURE [signature] PRINT NAME Conny Keach

SPECIAL INSTRUCTIONS:
Approval #: PROFILE # 7682
WR 4.5 SECTION 3

DESTINATION: Casella
Ontario City LF
1488 Cnty Rte 60
Lowman, NY 14861

U.S. EPA ID Number:
NYR000092654

STANLEY, NY

FOR APPROVAL: _____
CONSIGNEE PRINT NAME _____
CONSIGNEE SIGN HERE _____
(NO INITIALS)

RECEIVED ABOVE MATERIAL IN GOOD CONDITION
FIRM _____ DATE _____
BY _____ TIME _____ ☐ AM ☐ PM

Solid waste being interpreted to mean only solid waste or waste containing animal and vegetable matter, rubbish, trash, debris, ashes and metal non-toxic sludge and other waste materials which is not a radioactive volatile, highly flammable explosive toxic or hazardous nature as listed.

White Copy - *Riccelli* Yellow Copy - *Driver* Pink Copy - *Land Fill* Gold Copy - *Shipper*

RICCELLI ENTERPRISES INC

Syracuse
P.O. Box 6418
Syracuse, NY 13217
(315) 433-5115

Rochester
6800 W. Henrietta Road
Rush, NY 14543
(585) 344-8410

Geneva
1210 Gifford Road
Phelps, NY 14532
(315) 548-4049

5045

NON-HAZARDOUS SOLID WASTE MANIFEST

TRANSPORTER	DATE	TIME IN	/ OUT
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217	8/16/17	0715	0730
TRUCK # 516	TRAILER # 221		

CONSIGNEE	SHIPPER
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217 7A-402 PHONE # (315) 433-5115	UNISYS Corporation 3199 Pilot Knob Road MSF1B05 Eagan, Minnesota 55121 PHONE # 651-212-7273 NYR000231571

NO. PIECES	ARTICLES OR DESCRIPTION		WEIGHT
Estimated 30 Tons	Non-DOT / Non-RCRA Regulated Soils	WEIGHT IN	
		WEIGHT OUT	
		BILLED WEIGHT	

SHIPPER SIGNATURE _____ PRINT NAME _____

DRIVER SIGNATURE _____ PRINT NAME Tim Zurbrick

SPECIAL INSTRUCTIONS:
Approval #: Peoria #7682
VIC4-5 SECTION 3

DESTINATION: Casella
Ontario City LF
1488 Cnty Rte 60
Lowman, NY 14861

U.S. EPA ID Number:
NYR000092654

FOR APPROVAL: _____

CONSIGNEE PRINT NAME _____

CONSIGNEE SIGN HERE _____
(NO INITIALS)

RECEIVED ABOVE MATERIAL IN GOOD CONDITION

FIRM _____ DATE _____

BY _____ TIME _____ ☐ AM ☐ PM

Solid waste being interpreted to mean only solid waste or waste containing animal and vegetable matter, rubbish, trash, debris, ashes and metal non-toxic sludge and other waste materials which is not a radioactive volatile, highly flammable explosive toxic or hazardous nature as listed.

White Copy - *Riccelli* Yellow Copy - *Driver* Pink Copy - *Land Fill* Gold Copy - *Shipper*

RICCELLI ENTERPRISES INC

Syracuse
P.O. Box 6418
Syracuse, NY 13217
(315) 433-5115

Rochester
6800 W. Henrietta Road
Rush, NY 14543
(585) 344-8410

Gen
1210 Gifford Road
Phelps, NY 14532
(315) 548-4049

5046

NON-HAZARDOUS SOLID WASTE MANIFEST

TRANSPORTER	DATE	TIME IN	/ OUT
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217	8/16/17	0725	0740
TRUCK # 523	TRAILER # 206		

CONSIGNEE	SHIPPER
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217 7A-402 PHONE # (315) 433-5115	UNISYS Corporation 3199 Pilot Knob Road MSF1B05 Eagan, Minnesota 55121 PHONE # 651-212-7273 NYR000231571

NO. PIECES	ARTICLES OR DESCRIPTION		WEIGHT
Estimated 30 Tons	Non-DOT / Non-RCRA Regulated Soils	WEIGHT IN	
		WEIGHT OUT	
		BILLED WEIGHT	

SHIPPER SIGNATURE _____ PRINT NAME _____

DRIVER SIGNATURE John Johnson PRINT NAME John Johnson

SPECIAL INSTRUCTIONS:
Approval #: PROFILE # 7682 WR 4.5 SECTION 4

DESTINATION: Casella
Ontario City LF
1488 Cnty Rte 60
Lowman, NY 14861

U.S. EPA ID Number:
NYR000092654

SHIRLEY, NY

FOR APPROVAL: _____
CONSIGNEE PRINT NAME _____
CONSIGNEE SIGN HERE (NO INITIALS) _____

RECEIVED ABOVE MATERIAL IN GOOD CONDITION
FIRM _____ DATE _____
BY _____ TIME _____ ☐ AM ☐ PM

Solid waste being interpreted to mean only solid waste or waste containing animal and vegetable matter, rubbish, trash, debris, ashes and metal non-toxic sludge and other waste materials which is not a radioactive volatile, highly flammable explosive toxic or hazardous nature as listed.

White Copy - *Riccelli* Yellow Copy - *Driver* Pink Copy - *Land Fill* Gold Copy - *Shipper*

RICCELLI ENTERPRISES INC

Syracuse
P.O. Box 6418
Syracuse, NY 13217
(315) 433-5115

Rochester
6800 W. Henrietta Road
Rush, NY 14543
(585) 344-8410

Geneva
1210 Gifford Road
Phelps, NY 14532
(315) 548-4049

5047

NON-HAZARDOUS SOLID WASTE MANIFEST

TRANSPORTER	DATE	TIME IN	/ OUT
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217	8/16/17	0920	0935
TRUCK # 508	TRAILER # 219		

CONSIGNEE	SHIPPER
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217 7A-402 PHONE # (315) 433-5115	UNISYS Corporation 3199 Pilot Knob Road MSF1B05 Eagan, Minnesota 55121 PHONE # 651-212-7273 NYR000231571

NO. PIECES	ARTICLES OR DESCRIPTION		WEIGHT
Estimated 30 Tons	Non-DOT / Non-RCRA Regulated Soils	WEIGHT IN	
		WEIGHT OUT	
		BILLED WEIGHT	

SHIPPER SIGNATURE _____ PRINT NAME _____

DRIVER SIGNATURE Lisa Calkins PRINT NAME Lisa Calkins

SPECIAL INSTRUCTIONS:
Approval #: PROFILE # 7682 WR 4.5 SECTION 4

DESTINATION: Casella
Ontario City LF
1488 Cnty Rte 60
Lowman, NY 14861
STANLEY, NY

U.S. EPA ID Number:
NYR000092654

FOR APPROVAL: _____

CONSIGNEE PRINT NAME _____

CONSIGNEE SIGN HERE _____
(NO INITIALS)

RECEIVED ABOVE MATERIAL IN GOOD CONDITION

FIRM _____ DATE _____

BY _____ TIME _____ ☐ AM ☐ PM

Solid waste being interpreted to mean only solid waste or waste containing animal and vegetable matter, rubbish, trash, debris, ashes and metal non-toxic sludge and other waste materials which is not a radioactive volatile, highly flammable explosive toxic or hazardous nature as listed.

White Copy - *Riccelli* Yellow Copy - *Driver* Pink Copy - *Land Fill* Gold Copy - *Shipper*

RICCELLI ENTERPRISES INC

Syracuse
P.O. Box 6418
Syracuse, NY 13217
(315) 433-5115

Rochester
6800 W. Henrietta Road
Rush, NY 14543
(585) 344-8410

Geneva
1210 Gifford Road
Phelps, NY 14532
(315) 548-4049

5048

NON-HAZARDOUS SOLID WASTE MANIFEST

TRANSPORTER	DATE	TIME IN / OUT	
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217	8/16/17	1110	1125
TRUCK # 505	TRAILER # 209		

CONSIGNEE	SHIPPER
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217 7A-402 PHONE # (315) 433-5115	UNISYS Corporation 3199 Pilot Knob Road MSF1B05 Eagan, Minnesota 55121 PHONE # 651-212-7273 NYR000231571

NO. PIECES	ARTICLES OR DESCRIPTION	WEIGHT
Estimated 30 Tons	Non-DOT / Non-RCRA Regulated Soils	**WEIGHT IN**
		WEIGHT OUT
		BILLED WEIGHT

SHIPPER SIGNATURE As agent for Unisys Authorized PRINT NAME Thomas Bonan

DRIVER SIGNATURE Paul T. Nard PRINT NAME Paul Nard

SPECIAL INSTRUCTIONS:
Approval #: PROFILE # 7682
WR 4.5 SECTION 4

DESTINATION: Casella
Ontario City LF
1488 Cnty Rte 60
Lowman, NY 14861
U.S. EPA ID Number:
NYR000092654
STANLEY, NY

FOR APPROVAL: _____
CONSIGNEE PRINT NAME _____
CONSIGNEE SIGN HERE _____ (NO INITIALS)

RECEIVED ABOVE MATERIAL IN GOOD CONDITION
FIRM _____ DATE _____
BY _____ TIME _____ ☐ AM ☐ PM

Solid waste being interpreted to mean only solid waste or waste containing animal and vegetable matter, rubbish, trash, debris, ashes and metal non-toxic sludge and other waste materials which is not a radioactive volatile, highly flammable explosive toxic or hazardous nature as listed.

White Copy - *Riccelli* Yellow Copy - *Driver* Pink Copy - *Land Fill* Gold Copy - *Shipper*

RICCELLI ENTERPRISES INC

Syracuse
P.O. Box 6418
Syracuse, NY 13217
(315) 433-5115

Rochester
6800 W. Henrietta Road
Rush, NY 14543
(585) 344-8410

Geneva
1210 Gifford Road
Phelps, NY 14532
(315) 548-4049

5049

NON-HAZARDOUS SOLID WASTE MANIFEST

TRANSPORTER	DATE	TIME IN	/ OUT
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217	8/16/17	1130	1145
TRUCK # 504	TRAILER # 223		

CONSIGNEE	SHIPPER
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217 7A-402 PHONE # (315) 433-5115	UNISYS Corporation 3199 Pilot Knob Road MSF1B05 Eagan, Minnesota 55121 PHONE # 651-212-7273 NYR000231571

NO. PIECES	ARTICLES OR DESCRIPTION	WEIGHT
Estimated 30 Tons	Non-DOT / Non-RCRA Regulated Soils	**WEIGHT IN**
		WEIGHT OUT
		BILLED WEIGHT

SHIPPER SIGNATURE Agent for Unisys PRINT NAME Adam Ranna

DRIVER SIGNATURE DNSH PRINT NAME R. Ney S.H

SPECIAL INSTRUCTIONS:
Approval #: PROFILE # 7682
WR9 SECTION 5

DESTINATION: Casella
Ontario City LF
1488 Cnty Rte 60
Lowman, NY 14861 → STANLEY NY

U.S. EPA ID Number:
NYR000092654

FOR APPROVAL: _____
CONSIGNEE PRINT NAME _____
CONSIGNEE SIGN HERE _____
(NO INITIALS)

RECEIVED ABOVE MATERIAL IN GOOD CONDITION
FIRM _____ DATE _____
BY _____ TIME _____ ☐ AM ☐ PM

Solid waste being interpreted to mean only solid waste or waste containing animal and vegetable matter, rubbish, trash, debris, ashes and metal non-toxic sludge and other waste materials which is not a radioactive volatile, highly flammable explosive toxic or hazardous nature as listed.

White Copy - *Riccelli* Yellow Copy - *Driver* Pink Copy - *Land Fill* Gold Copy - *Shipper*

RICCELLI ENTERPRISES INC

Syracuse
P.O. Box 6418
Syracuse, NY 13217
(315) 433-5115

Rochester
6800 W. Henrietta Road
Rush, NY 14543
(585) 344-8410

Geneva
1210 Gifford Road
Phelps, NY 14532
(315) 548-4049

5050

NON-HAZARDOUS SOLID WASTE MANIFEST

TRANSPORTER	DATE	TIME IN / OUT	
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217	8/16/17	1145	1200
TRUCK # 517	TRAILER # 222		

CONSIGNEE	SHIPPER
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217 7A-402 PHONE # (315) 433-5115	UNISYS Corporation 3199 Pilot Knob Road MSF1B05 Eagan, Minnesota 55121 PHONE # 651-212-7273 NYR000231571

NO. PIECES	ARTICLES OR DESCRIPTION		WEIGHT
Estimated 30 Tons	Non-DOT / Non-RCRA Regulated Soils	**WEIGHT IN**	
		WEIGHT OUT	
		BILLED WEIGHT	

SHIPPER SIGNATURE as agent for Unisys PRINT NAME Mike Bruce

DRIVER SIGNATURE Tommy K PRINT NAME Tommy Krcal

SPECIAL INSTRUCTIONS:
Approval #: Profile # 7682
WR 9 SECTION 5

DESTINATION: Casella
Ontario City LF
1488 Cnty Rte 60
Lowman, NY 14861
U.S. EPA ID Number:
NYR000092654
Sidney, NY

FOR APPROVAL: _____
CONSIGNEE PRINT NAME _____
CONSIGNEE SIGN HERE _____
(NO INITIALS)

RECEIVED ABOVE MATERIAL IN GOOD CONDITION
FIRM _____ DATE _____
BY _____ TIME _____ ☐ AM ☐ PM

Solid waste being interpreted to mean only solid waste or waste containing animal and vegetable matter, rubbish, trash, debris, ashes and metal non-toxic sludge and other waste materials which is not a radioactive volatile, highly flammable explosive toxic or hazardous nature as listed.

White Copy - *Riccelli* Yellow Copy - *Driver* Pink Copy - *Land Fill* Gold Copy - *Shipper*

RICCELLI ENTERPRISES INC

Syracuse
P.O. Box 6418
Syracuse, NY 13217
(315) 433-5115

Rochester
6800 W. Henrietta Road
Rush, NY 14543
(585) 344-8410

Geneva
1210 Gifford Road
Phelps, NY 14532
(315) 548-4049

5051

NON-HAZARDOUS SOLID WASTE MANIFEST

TRANSPORTER	DATE	TIME IN / OUT	
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217	8/16/17	1200	1210
TRUCK # 344	TRAILER # N/A		

CONSIGNEE	SHIPPER
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217 7A-402 PHONE # (315) 433-5115	UNISYS Corporation 3199 Pilot Knob Road MSF1B05 Eagan, Minnesota 55121 PHONE # 651-212-7273 NYR000231571

NO. PIECES	ARTICLES OR DESCRIPTION		WEIGHT
Estimated 30 Tons 22 TONS	Non-DOT / Non-RCRA Regulated Soils	**WEIGHT IN**	
		WEIGHT OUT	
		BILLED WEIGHT	

SHIPPER SIGNATURE for Unisys Adam PRINT NAME Adam Runco

DRIVER SIGNATURE [signature] PRINT NAME David Robbins

SPECIAL INSTRUCTIONS:
Approval #: Profile # 7682
WR 18 Section 1

DESTINATION: Casella
Ontario City LF
1488 Cnty Rte 60
Lowman, NY 14861 STANLEY, NY

U.S. EPA ID Number:
NYR000092654

FOR APPROVAL: _____

CONSIGNEE PRINT NAME _____

CONSIGNEE SIGN HERE _____
(NO INITIALS)

RECEIVED ABOVE MATERIAL IN GOOD CONDITION

FIRM _____ DATE _____

BY _____ TIME _____ ☐ AM ☐ PM

Solid waste being interpreted to mean only solid waste or waste containing animal and vegetable matter, rubbish, trash, debris, ashes and metal non-toxic sludge and other waste materials which is not a radioactive volatile, highly flammable explosive toxic or hazardous nature as listed.

White Copy - *Riccelli* Yellow Copy - *Driver* Pink Copy - *Land Fill* Gold Copy - *Shipper*

RICCELLI ENTERPRISES INC

Syracuse
P.O. Box 6418
Syracuse, NY 13217
(315) 433-5115

Rochester
6800 W. Henrietta Road
Rush, NY 14543
(585) 344-8410

Geneva
1210 Gifford Road
Phelps, NY 14532
(315) 548-4049

5052

NON-HAZARDOUS SOLID WASTE MANIFEST

TRANSPORTER	DATE	TIME IN / OUT	
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217	8/16/17	1210	1720
TRUCK # 345	TRAILER # N/A		

CONSIGNEE	SHIPPER
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217 7A-402 PHONE # (315) 433-5115	UNISYS Corporation 3199 Pilot Knob Road MSF1B05 Eagan, Minnesota 55121 PHONE # 651-212-7273 NYR000231571

NO. PIECES	ARTICLES OR DESCRIPTION	WEIGHT
Estimated ~~30 Tons~~ 22 TONS	Non-DOT / Non-RCRA Regulated Soils	**WEIGHT IN** **WEIGHT OUT** **BILLED WEIGHT**

SHIPPER SIGNATURE Agent for Unisys PRINT NAME Anthony Pavone

DRIVER SIGNATURE Pamela PRINT NAME Pamela

SPECIAL INSTRUCTIONS:
Approval #:
Profile # 7682 WR IB SECTION 1

DESTINATION: Casella
Ontario City LF
~~1488 Cnty Rte 60~~
~~Lowman, NY 14861~~ Scottsville, NY

U.S. EPA ID Number:
NYR000092654

FOR APPROVAL: _____

CONSIGNEE PRINT NAME _____

CONSIGNEE SIGN HERE _____
(NO INITIALS)

RECEIVED ABOVE MATERIAL IN GOOD CONDITION

FIRM _____ DATE _____

BY _____ TIME _____ ☐ AM ☐ PM

Solid waste being interpreted to mean only solid waste or waste containing animal and vegetable matter, rubbish, trash, debris, ashes and metal non-toxic sludge and other waste materials which is not a radioactive volatile, highly flammable explosive toxic or hazardous nature as listed.

White Copy - *Riccelli* Yellow Copy - *Driver* Pink Copy - *Land Fill* Gold Copy - *Shipper*

RICCELLI ENTERPRISES INC

Syracuse
P.O. Box 6418
Syracuse, NY 13217
(315) 433-5115

Rochester
6800 W. Henrietta Road
Rush, NY 14543
(585) 344-8410

Geneva
1210 Gifford Road
Phelps, NY 14532
(315) 548-4049

5053

NON-HAZARDOUS SOLID WASTE MANIFEST

TRANSPORTER	DATE	TIME IN / OUT	
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217	8/16/17	1215	1225
TRUCK # 516	TRAILER # ~~516~~ 221		

CONSIGNEE	SHIPPER
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217 7A-402 PHONE # (315) 433-5115	UNISYS Corporation 3199 Pilot Knob Road MSF1B05 Eagan, Minnesota 55121 PHONE # 651-212-7273 NYR000231571

NO. PIECES	ARTICLES OR DESCRIPTION		WEIGHT
Estimated ~~30 Tons~~ ~~22 Tons~~ (K) 30 TONS	Non-DOT / Non-RCRA Regulated Soils	WEIGHT IN	
		WEIGHT OUT	
		BILLED WEIGHT	

SHIPPER SIGNATURE Agent for Unisys Adam PRINT NAME Adam Pavia

DRIVER SIGNATURE [signature] PRINT NAME Tim Zrebiec

SPECIAL INSTRUCTIONS:
Approval #:
PROFILE # 7682 WKIB SECTION 1

DESTINATION: Casella
Ontario City LF
1488 Cnty Rte 60
Lowman, NY 14861 STANLEY, NY

U.S. EPA ID Number:
NYR000092654

AP

FOR APPROVAL: _____
CONSIGNEE PRINT NAME _____
CONSIGNEE SIGN HERE _____
(NO INITIALS)

RECEIVED ABOVE MATERIAL IN GOOD CONDITION
FIRM _____ DATE _____
BY _____ TIME _____ ☐ AM ☐ PM

Solid waste being interpreted to mean only solid waste or waste containing animal and vegetable matter, rubbish, trash, debris, ashes and metal non-toxic sludge and other waste materials which is not a radioactive volatile, highly flammable explosive toxic or hazardous nature as listed.

White Copy - *Riccelli* Yellow Copy - *Driver* Pink Copy - *Land Fill* Gold Copy - *Shipper*

RICCELLI ENTERPRISES INC

Syracuse
P.O. Box 6418
Syracuse, NY 13217
(315) 433-5115

Rochester
6800 W. Henrietta Road
Rush, NY 14543
(585) 344-8410

Geneva
1210 Gifford Road
Phelps, NY 14532
(315) 548-4049

5054

NON-HAZARDOUS SOLID WASTE MANIFEST

TRANSPORTER	DATE	TIME IN	/ OUT
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217	8/16/17	1225	1235
TRUCK # 352	TRAILER # N/A		

CONSIGNEE	SHIPPER
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217 7A-402 PHONE # (315) 433-5115	UNISYS Corporation 3199 Pilot Knob Road MSF1B05 Eagan, Minnesota 55121 PHONE # 651-212-7273 NYR000231571

NO. PIECES	ARTICLES OR DESCRIPTION		WEIGHT
Estimated 30 Tons	Non-DOT / Non-RCRA Regulated Soils	WEIGHT IN	
		WEIGHT OUT	
		BILLED WEIGHT	

SHIPPER SIGNATURE _____ PRINT NAME _____

DRIVER SIGNATURE _____ PRINT NAME _____

SPECIAL INSTRUCTIONS:
Approval #:

PROFILE # 7652 WR 1B SECTION 1

DESTINATION: Casella
Ontario City LF
1488 Cnty Rte 60
Lowman, NY 14861

U.S. EPA ID Number:
NYR000092654

FOR APPROVAL: _____

CONSIGNEE PRINT NAME _____

CONSIGNEE SIGN HERE _____
(NO INITIALS)

RECEIVED ABOVE MATERIAL IN GOOD CONDITION

FIRM _____ DATE _____

BY _____ TIME _____ ☐ AM ☐ PM

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White Copy - *Riccelli* Yellow Copy - *Driver* Pink Copy - *Land Fill* Gold Copy - *Shipper*

RICCELLI ENTERPRISES

Syracuse
P.O. Box 6418
Syracuse, NY 13217
(315) 433-5115

Rochester
6800 W. Henrietta Road
Rush, NY 14543
(585) 344-8410

Geneva
1210 Gifford Road
Phelps, NY 14532
(315) 548-4049

5055

NON-HAZARDOUS SOLID WASTE MANIFEST

TRANSPORTER	DATE	TIME IN / OUT	
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217	8/16/17	1230	1240
TRUCK # 357	TRAILER # N/A		

CONSIGNEE	SHIPPER
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217 7A-402 PHONE # (315) 433-5115	UNISYS Corporation 3199 Pilot Knob Road MSF1B05 Eagan, Minnesota 55121 PHONE # 651-212-7273 NYR000231571

NO. PIECES	ARTICLES OR DESCRIPTION		WEIGHT
Estimated ~~30 Tons~~ 22 TONS	Non-DOT / Non-RCRA Regulated Soils	**WEIGHT IN**	
		WEIGHT OUT	
		BILLED WEIGHT	

SHIPPER SIGNATURE _____ PRINT NAME _____

DRIVER SIGNATURE _____ PRINT NAME Josh Winter

SPECIAL INSTRUCTIONS:
Approval #:
PROFILE # 7682 WR 18 SECTION 1

DESTINATION: Casella
Ontario City LF
1488 Cnty Rte 60
Lowman, NY 14861

U.S. EPA ID Number:
NYR000092654

STANLEY, NY

FOR APPROVAL: _____

CONSIGNEE PRINT NAME _____

CONSIGNEE SIGN HERE _____
(NO INITIALS)

RECEIVED ABOVE MATERIAL IN GOOD CONDITION

FIRM _____ DATE _____

BY _____ TIME _____ ☐ AM ☐ PM

Solid waste being interpreted to mean only solid waste or waste containing animal and vegetable matter, rubbish, trash, debris, ashes and metal non-toxic sludge and other waste materials which is not a radioactive volatile, highly flammable explosive toxic or hazardous nature as listed.

White Copy - *Riccelli* Yellow Copy - *Driver* Pink Copy - *Land Fill* Gold Copy - *Shipper*

RICCELLI ENTERPRISES INC

Syracuse
P.O. Box 6418
Syracuse, NY 13217
(315) 433-5115

Rochester
6800 W. Henrietta Road
Rush, NY 14543
(585) 344-8410

Geneva
1210 Gifford Road
Phelps, NY 14532
(315) 548-4049

5056

NON-HAZARDOUS SOLID WASTE MANIFEST

TRANSPORTER	DATE	TIME IN	/ OUT
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217	8/16/17	1235	1250
TRUCK # 523	TRAILER # 206		

CONSIGNEE	SHIPPER
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217 7A-402 PHONE # (315) 433-5115	UNISYS Corporation 3199 Pilot Knob Road MSF1B05 Eagan, Minnesota 55121 PHONE # 651-212-7273 NYR000231571

NO. PIECES	ARTICLES OR DESCRIPTION		WEIGHT
Estimated 30 Tons	Non-DOT / Non-RCRA Regulated Soils	**WEIGHT IN**	
		WEIGHT OUT	
		BILLED WEIGHT	

SHIPPER SIGNATURE Robert Fortunato PRINT NAME Robert Fortuna

DRIVER SIGNATURE John Johnson PRINT NAME John Johnson

SPECIAL INSTRUCTIONS:
Approval #:

PROFILE # 7682 WR 18 SECTION 1

DESTINATION: Casella
Ontario City LF
1488 Cnty Rte 60
Lowman, NY 14861

U.S. EPA ID Number:
NYR000092654

STANLEY, NY

FOR APPROVAL: _____

CONSIGNEE PRINT NAME _____

CONSIGNEE SIGN HERE _____
(NO INITIALS)

RECEIVED ABOVE MATERIAL IN GOOD CONDITION

FIRM _____ DATE _____

BY _____ TIME _____ ☐ AM ☐ PM

Solid waste being interpreted to mean only solid waste or waste containing animal and vegetable matter, rubbish, trash, debris, ashes and metal non-toxic sludge and other waste materials which is not a radioactive volatile, highly flammable explosive toxic or hazardous nature as listed.

White Copy - *Riccelli* Yellow Copy - *Driver* Pink Copy - *Land Fill* Gold Copy - *Shipper*

RICCELLI ENTERPRISES INC

Syracuse
P.O. Box 6418
Syracuse, NY 13217
(315) 433-5115

Rochester
6800 W. Henrietta Road
Rush, NY 14543
(585) 344-8410

Geneva
1210 Gifford Road
Phelps, NY 14532
(315) 548-4049

5057

NON-HAZARDOUS SOLID WASTE MANIFEST

TRANSPORTER	DATE	TIME IN / OUT	
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217	8/17/17	0640	0655
TRUCK # 533	TRAILER # 223		

CONSIGNEE	SHIPPER
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217 7A-402 PHONE # (315) 433-5115	UNISYS Corporation 3199 Pilot Knob Road MSF1B05 Eagan, Minnesota 55121 PHONE # 651-212-7273 NYR000231571

NO. PIECES	ARTICLES OR DESCRIPTION		WEIGHT
Estimated 30 Tons	Non-DOT / Non-RCRA Regulated Soils	WEIGHT IN	
		WEIGHT OUT	
		BILLED WEIGHT	

SHIPPER SIGNATURE _____ PRINT NAME _____

DRIVER SIGNATURE _____ PRINT NAME _____

SPECIAL INSTRUCTIONS:
Approval #:

PROFILE # 7682 WIKB SECTION 5

DESTINATION: Casella
Ontario City LF
1488 Cnty Rte 60
Lowman, NY 14861

U.S. EPA ID Number:
NYR000092654

STANLEY, NY

FOR APPROVAL: _____

CONSIGNEE PRINT NAME _____

CONSIGNEE SIGN HERE _____
(NO INITIALS)

RECEIVED ABOVE MATERIAL IN GOOD CONDITION

FIRM _____ DATE _____

BY _____ TIME _____ ☐ AM ☐ PM

Solid waste being interpreted to mean only solid waste or waste containing animal and vegetable matter, rubbish, trash, debris, ashes and metal non-toxic sludge and other waste materials which is not a radioactive volatile, highly flammable explosive toxic or hazardous nature as listed.

White Copy - *Riccelli* Yellow Copy - *Driver* Pink Copy - *Land Fill* Gold Copy - *Shipper*

RICCELLI ENTERPRISES INC

Syracuse
P.O. Box 6418
Syracuse, NY 13217
(315) 433-5115

Rochester
6800 W. Henrietta Road
Rush, NY 14543
(585) 344-8410

Geneva
1210 Gifford Road
Phelps, NY 14532
(315) 548-4049

5058

NON-HAZARDOUS SOLID WASTE MANIFEST

TRANSPORTER	DATE	TIME IN	/ OUT
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217	9/11/11	0650	0705
TRUCK # 505	TRAILER # 209		

CONSIGNEE	SHIPPER
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217 7A-402 PHONE # (315) 433-5115	UNISYS Corporation 3199 Pilot Knob Road MSF1B05 Eagan, Minnesota 55121 PHONE # 651-212-7273 NYR000231571

NO. PIECES	ARTICLES OR DESCRIPTION		WEIGHT
Estimated 30 Tons	Non-DOT / Non-RCRA Regulated Soils	WEIGHT IN	
		WEIGHT OUT	
		BILLED WEIGHT	

SHIPPER SIGNATURE _____ PRINT NAME _____

DRIVER SIGNATURE _____ PRINT NAME _____

SPECIAL INSTRUCTIONS:
Approval #:

Project # 7692 WEB SECTION 5#

DESTINATION: Casella
Ontario City LF
1488 Cnty Rte 60
Lowman, NY 14861

U.S. EPA ID Number:
NYR000092654

FOR APPROVAL: _____

CONSIGNEE PRINT NAME _____

CONSIGNEE SIGN HERE _____
(NO INITIALS)

RECEIVED ABOVE MATERIAL IN GOOD CONDITION

FIRM _____ DATE _____

BY _____ TIME _____ ☐ AM ☐ PM

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White Copy - *Riccelli* Yellow Copy - *Driver* Pink Copy - *Land Fill* Gold Copy - *Shipper*

RICCELLI ENTERPRISES INC

Syracuse
P.O. Box 6418
Syracuse, NY 13217
(315) 433-5115

Rochester
6800 W. Henrietta Road
Rush, NY 14543
(585) 344-8410

Geneva
1210 Gifford Road
Phelps, NY 14532
(315) 548-4049

5059

NON-HAZARDOUS SOLID WASTE MANIFEST

TRANSPORTER	DATE	TIME IN / OUT	
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217	8/17/17	1255	1310
TRUCK # 553	TRAILER # 223		

CONSIGNEE	SHIPPER
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217 7A-402 PHONE # (315) 433-5115	UNISYS Corporation 3199 Pilot Knob Road MSF1B05 Eagan, Minnesota 55121 PHONE # 651-212-7273 NYR000231571

NO. PIECES	ARTICLES OR DESCRIPTION		WEIGHT
Estimated 30 Tons	Non-DOT / Non-RCRA Regulated Soils	**WEIGHT IN**	
		WEIGHT OUT	
		BILLED WEIGHT	

SHIPPER SIGNATURE _____ PRINT NAME _____

DRIVER SIGNATURE _____ PRINT NAME Ruby Scott

SPECIAL INSTRUCTIONS:
Approval #:

PROFILE # 7682 WIR 8 SECTION 6

DESTINATION: Casella
Ontario City LF
1488 Cnty Rte 60
Lowman, NY 14861

U.S. EPA ID Number:
NYR000092654

STANLEY, NY

FOR APPROVAL: _____

CONSIGNEE PRINT NAME _____

CONSIGNEE SIGN HERE (NO INITIALS) _____

RECEIVED ABOVE MATERIAL IN GOOD CONDITION

FIRM _____ DATE _____

BY _____ TIME _____ ☐ AM ☐ PM

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White Copy - *Riccelli* Yellow Copy - *Driver* Pink Copy - *Land Fill* Gold Copy - *Shipper*

RICCELLI ENTERPRISES INC

Syracuse
P.O. Box 6418
Syracuse, NY 13217
(315) 433-5115

Rochester
6800 W. Henrietta Road
Rush, NY 14543
(585) 344-8410

Geneva
1210 Gifford Road
Phelps, NY 14532
(315) 548-4049

5060

NON-HAZARDOUS SOLID WASTE MANIFEST

TRANSPORTER	DATE	TIME IN	/ OUT
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217	8/17/17	1305	1320
TRUCK # 505	TRAILER # 209		

CONSIGNEE	SHIPPER
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217 7A-402 PHONE # (315) 433-5115	UNISYS Corporation 3199 Pilot Knob Road MSF1B05 Eagan, Minnesota 55121 PHONE # 651-212-7273 NYR000231571

NO. PIECES	ARTICLES OR DESCRIPTION	WEIGHT
Estimated 30 Tons	Non-DOT / Non-RCRA Regulated Soils	**WEIGHT IN**
		WEIGHT OUT
		BILLED WEIGHT

SHIPPER SIGNATURE _____ PRINT NAME _____

DRIVER SIGNATURE _____ PRINT NAME _____

SPECIAL INSTRUCTIONS:
Approval #:

PROFILE # 7692 WEB SECTION 6

DESTINATION: Casella
Ontario City LF
1488 Cnty Rte 60
Lowman, NY 14861 STANLEY, NY

U.S. EPA ID Number:
NYR000092654

FOR APPROVAL: _____

CONSIGNEE PRINT NAME _____

CONSIGNEE SIGN HERE _____
(NO INITIALS)

RECEIVED ABOVE MATERIAL IN GOOD CONDITION

FIRM _____ DATE _____

BY _____ TIME _____ ☐ AM ☐ PM

Solid waste being interpreted to mean only solid waste or waste containing animal and vegetable matter, rubbish, trash, debris, ashes and metal non-toxic sludge and other waste materials which is not a radioactive volatile, highly flammable explosive toxic or hazardous nature as listed.

White Copy - *Riccelli* Yellow Copy - *Driver* Pink Copy - *Land Fill* Gold Copy - *Shipper*

RICCELLI ENTERPRISES INC

Syracuse
P.O. Box 6418
Syracuse, NY 13217
(315) 433-5115

Rochester
6800 W. Henrietta Road
Rush, NY 14543
(585) 344-8410

Geneva
1210 Gifford Road
Phelps, NY 14532
(315) 548-4049

5061

NON-HAZARDOUS SOLID WASTE MANIFEST

TRANSPORTER	DATE	TIME IN / OUT	
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217	8/23/17	0630	0650
TRUCK # 533	TRAILER # 223		

CONSIGNEE	SHIPPER
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217 7A-402 PHONE # (315) 433-5115	UNISYS Corporation 3199 Pilot Knob Road MSF1B05 Eagan, Minnesota 55121 PHONE # 651-212-7273 NYR000231571

NO. PIECES	ARTICLES OR DESCRIPTION	WEIGHT
Estimated 30 Tons	Non-DOT / Non-RCRA Regulated Soils	**WEIGHT IN**
		WEIGHT OUT
		BILLED WEIGHT

Agent for Unisys

SHIPPER SIGNATURE _____ PRINT NAME _____

DRIVER SIGNATURE _____ PRINT NAME _____

SPECIAL INSTRUCTIONS:
Approval #:
PROFILE # 7032 WR1-2 SECTION 4

DESTINATION: Casella
Ontario City LF
1488 Cnty Rte 60
Lowman, NY 14861 - STANLEY, NY

U.S. EPA ID Number:
NYR000092654

FOR APPROVAL: _____
CONSIGNEE PRINT NAME _____
CONSIGNEE SIGN HERE _____
(NO INITIALS)

RECEIVED ABOVE MATERIAL IN GOOD CONDITION

FIRM _____ DATE _____
BY _____ TIME _____ ☐ AM ☐ PM

Solid waste being interpreted to mean only solid waste or waste containing animal and vegetable matter, rubbish, trash, debris, ashes and metal non-toxic sludge and other waste materials which is not a radioactive volatile, highly flammable explosive toxic or hazardous nature as listed.

White Copy - *Riccelli* Yellow Copy - *Driver* Pink Copy - *Land Fill* Gold Copy - *Shipper*

RICCELLI ENTERPRISES

Syracuse
P.O. Box 6418
Syracuse, NY 13217
(315) 433-5115

Rochester
6800 W. Henrietta Road
Rush, NY 14543
(585) 344-8410

Geneva
1210 Gifford Road
Phelps, NY 14532
(315) 548-4049

5062

NON-HAZARDOUS SOLID WASTE MANIFEST

TRANSPORTER	DATE	TIME IN	/ OUT
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217	8/23/17	0645	0700
TRUCK # 505	TRAILER # 209		

CONSIGNEE	SHIPPER
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217 7A-402 PHONE # (315) 433-5115	UNISYS Corporation 3199 Pilot Knob Road MSF1B05 Eagan, Minnesota 55121 PHONE # 651-212-7273 NYR000231571

NO. PIECES	ARTICLES OR DESCRIPTION		WEIGHT
Estimated 30 Tons	Non-DOT / Non-RCRA Regulated Soils	**WEIGHT IN**	
		WEIGHT OUT	
		BILLED WEIGHT	

SHIPPER SIGNATURE _____ PRINT NAME _____

DRIVER SIGNATURE _____ PRINT NAME _____

SPECIAL INSTRUCTIONS:
Approval #:

PROFILE # 76082 WR1-2 SECTION 4

DESTINATION: Casella
Ontario City LF
1488 Cnty Rte 60
Lowman, NY 14861 STANLEY, NY

U.S. EPA ID Number:
NYR000092654

FOR APPROVAL: _____

CONSIGNEE PRINT NAME _____

CONSIGNEE SIGN HERE _____
(NO INITIALS)

RECEIVED ABOVE MATERIAL IN GOOD CONDITION

FIRM _____ DATE _____

BY _____ TIME _____ ☐ AM ☐ PM

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White Copy - *Riccelli* Yellow Copy - *Driver* Pink Copy - *Land Fill* Gold Copy - *Shipper*

RICCELLI ENTERPRISES

Syracuse
P.O. Box 6418
Syracuse, NY 13217
(315) 433-5115

Rochester
6800 W. Henrietta Road
Rush, NY 14543
(585) 344-8410

Geneva
1210 Gifford Road
Phelps, NY 14532
(315) 548-4049

5063

NON-HAZARDOUS SOLID WASTE MANIFEST

TRANSPORTER	DATE	TIME IN	/ OUT
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217	8/23/17	0715	0730
TRUCK # 357	TRAILER # 428		

CONSIGNEE	SHIPPER
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217 7A-402 PHONE # (315) 433-5115	UNISYS Corporation 3199 Pilot Knob Road MSF1B05 Eagan, Minnesota 55121 PHONE # 651-212-7273 NYR000231571

NO. PIECES	ARTICLES OR DESCRIPTION		WEIGHT
Estimated 30 Tons	Non-DOT / Non-RCRA Regulated Soils	**WEIGHT IN**	
		WEIGHT OUT	
		BILLED WEIGHT	

As agent for Unisys Adam Ranno

SHIPPER SIGNATURE _____ PRINT NAME _____

DRIVER SIGNATURE Josh Winter PRINT NAME Josh Winter

SPECIAL INSTRUCTIONS:
Approval #:

PROFILE # 7682 WR 1-2 SECTION 3

DESTINATION: Casella
Ontario City LF
1488 Cnty Rte 60
Lowman, NY 14861 STANLEY NY

U.S. EPA ID Number:
NYR000092654

FOR APPROVAL: _____

CONSIGNEE PRINT NAME _____

CONSIGNEE SIGN HERE _____
(NO INITIALS)

RECEIVED ABOVE MATERIAL IN GOOD CONDITION

FIRM _____ DATE _____

BY _____ TIME _____ ☐ AM ☐ PM

Solid waste being interpreted to mean only solid waste or waste containing animal and vegetable matter, rubbish, trash, debris, ashes and metal non-toxic sludge and other waste materials which is not a radioactive volatile, highly flammable explosive toxic or hazardous nature as listed.

White Copy - *Riccelli* Yellow Copy - *Driver* Pink Copy - *Land Fill* Gold Copy - *Shipper*

RICCELLI ENTERPRISES INC

Syracuse
P.O. Box 6418
Syracuse, NY 13217
(315) 433-5115

Rochester
6800 W. Henrietta Road
Rush, NY 14543
(585) 344-8410

Geneva
1210 Gifford Road
Phelps, NY 14532
(315) 548-4049

5064

NON-HAZARDOUS SOLID WASTE MANIFEST

TRANSPORTER	DATE	TIME IN	/ OUT
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217	8/23/17	0745	0800
TRUCK # 517	TRAILER # 220		

CONSIGNEE	SHIPPER
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217 7A-402 PHONE # (315) 433-5115	UNISYS Corporation 3199 Pilot Knob Road MSF1B05 Eagan, Minnesota 55121 PHONE # 651-212-7273 NYR000231571

NO. PIECES	ARTICLES OR DESCRIPTION	WEIGHT
Estimated 30 Tons	Non-DOT / Non-RCRA Regulated Soils	**WEIGHT IN**
		WEIGHT OUT
		BILLED WEIGHT

Agent for Unisys Adam

SHIPPER SIGNATURE _____ PRINT NAME Adam Ramm

DRIVER SIGNATURE _____ PRINT NAME Corey Keech

SPECIAL INSTRUCTIONS:
Approval #:

Profile # 7082 WA 1-2 Section 3

DESTINATION: (A)
Casella
Ontario City LF
1488 Cnty Rte 60
Lowman, NY 14861

U.S. EPA ID Number:
NYR000092654

STANLEY, NY

FOR APPROVAL: _____

CONSIGNEE PRINT NAME _____

CONSIGNEE SIGN HERE _____
(NO INITIALS)

RECEIVED ABOVE MATERIAL IN GOOD CONDITION

FIRM _____ DATE _____

BY _____ TIME _____ ☐ AM ☐ PM

Solid waste being interpreted to mean only solid waste or waste containing animal and vegetable matter, rubbish, trash, debris, ashes and metal non-toxic sludge and other waste materials which is not a radioactive volatile, highly flammable explosive toxic or hazardous nature as listed.

White Copy - *Riccelli* Yellow Copy - *Driver* Pink Copy - *Land Fill* Gold Copy - *Shipper*

RICCELLI ENTERPRISES INC

Syracuse
P.O. Box 6418
Syracuse, NY 13217
(315) 433-5115

Rochester
6800 W. Henrietta Road
Rush, NY 14543
(585) 344-8410

Geneva
1210 Gifford Road
Phelps, NY 14532
(315) 548-4049

5065

NON-HAZARDOUS SOLID WASTE MANIFEST

TRANSPORTER	DATE	TIME IN	/ OUT
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217	8/23/17	1130	1145
TRUCK # 508	TRAILER # 219		

CONSIGNEE	SHIPPER
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217 7A-402 PHONE # (315) 433-5115	UNISYS Corporation 3199 Pilot Knob Road MSF1B05 Eagan, Minnesota 55121 PHONE # 651-212-7273 NYR000231571

NO. PIECES	ARTICLES OR DESCRIPTION		WEIGHT
Estimated 30 Tons	Non-DOT / Non-RCRA Regulated Soils	**WEIGHT IN**	
		WEIGHT OUT	Approx 37 tons
		BILLED WEIGHT	

As Agent for Unisys — Steven Rennie

SHIPPER SIGNATURE _____ PRINT NAME _____

DRIVER SIGNATURE Lisa Calkins PRINT NAME Lisa Calkins

SPECIAL INSTRUCTIONS:
Approval #:

PROFILE # 76087 WR1-2 SECTION 2

DESTINATION: Casella
Ontario City LF
1488 Cnty Rte 60
Lowman, NY 14861 — STANLEY, NY

U.S. EPA ID Number:
NYR000092654

FOR APPROVAL: _____

CONSIGNEE PRINT NAME _____

CONSIGNEE SIGN HERE _____
(NO INITIALS)

RECEIVED ABOVE MATERIAL IN GOOD CONDITION

FIRM _____ DATE _____

BY _____ TIME _____ ☐ AM ☐ PM

Solid waste being interpreted to mean only solid waste or waste containing animal and vegetable matter, rubbish, trash, debris, ashes and metal non-toxic sludge and other waste materials which is not a radioactive volatile, highly flammable explosive toxic or hazardous nature as listed.

White Copy - *Riccelli* Yellow Copy - *Driver* Pink Copy - *Land Fill* Gold Copy - *Shipper*

RICCELLI ENTERPRISES INC

Syracuse
P.O. Box 6418
Syracuse, NY 13217
(315) 433-5115

Rochester
6800 W. Henrietta Road
Rush, NY 14543
(585) 344-8410

Geneva
1210 Gifford Road
Phelps, NY 14532
(315) 548-4049

5066

NON-HAZARDOUS SOLID WASTE MANIFEST

TRANSPORTER	DATE	TIME IN	/ OUT
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217	8/23/17	1205	1220
TRUCK # 533	TRAILER # 223		

CONSIGNEE	SHIPPER
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217 7A-402 PHONE # (315) 433-5115	UNISYS Corporation 3199 Pilot Knob Road MSF1B05 Eagan, Minnesota 55121 PHONE # 651-212-7273 NYR000231571

NO. PIECES	ARTICLES OR DESCRIPTION		WEIGHT
Estimated 30 Tons	Non-DOT / Non-RCRA Regulated Soils	WEIGHT IN	
		WEIGHT OUT	
		BILLED WEIGHT	

SHIPPER SIGNATURE As agent for Unisys [signature] PRINT NAME Ashwini Ramm

DRIVER SIGNATURE Kurt D SH PRINT NAME Kurt Smith

SPECIAL INSTRUCTIONS:
Approval #:
PROFILE # 7682 WEI-2 SECTION 2

DESTINATION: Casella
Ontario City LF
1488 Cnty Rte 60
Lowman, NY 14861
AR
U.S. EPA ID Number:
NYR000092654
STANLEY, NY

FOR APPROVAL: _____
CONSIGNEE PRINT NAME _____
CONSIGNEE SIGN HERE _____
(NO INITIALS)

RECEIVED ABOVE MATERIAL IN GOOD CONDITION
FIRM _____ DATE _____
BY _____ TIME _____ ☐ AM ☐ PM

Solid waste being interpreted to mean only solid waste or waste containing animal and vegetable matter, rubbish, trash, debris, ashes and metal non-toxic sludge and other waste materials which is not a radioactive volatile, highly flammable explosive toxic or hazardous nature as listed.

White Copy - *Riccelli* Yellow Copy - *Driver* Pink Copy - *Land Fill* Gold Copy - *Shipper*

RICCELLI ENTERPRISES

Syracuse
P.O. Box 6418
Syracuse, NY 13217
(315) 433-5115

Rochester
6800 W. Henrietta Road
Rush, NY 14543
(585) 344-8410

Geneva
1210 Gifford Road
Phelps, NY 14532
(315) 548-4049

5067

NON-HAZARDOUS SOLID WASTE MANIFEST

TRANSPORTER	DATE	TIME IN	/ OUT
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217	8/23/17	1220	1235
TRUCK # 505	TRAILER # 209		

CONSIGNEE	SHIPPER
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217 7A-402 PHONE # (315) 433-5115	UNISYS Corporation 3199 Pilot Knob Road MSF1B05 Eagan, Minnesota 55121 PHONE # 651-212-7273 NYR000231571

NO. PIECES	ARTICLES OR DESCRIPTION		WEIGHT
Estimated 30 Tons	Non-DOT / Non-RCRA Regulated Soils	WEIGHT IN	
		WEIGHT OUT	
		BILLED WEIGHT	
	EST. 37 TON		

SHIPPER SIGNATURE _____ PRINT NAME _____

DRIVER SIGNATURE _____ PRINT NAME _____

SPECIAL INSTRUCTIONS:
Approval #:
PROFILE # 7682 WR1-2 SECTION 2

DESTINATION: Casella
Ontario City LF
1488 Cnty Rte 60
Lowman, NY 14861
STANLEY, NY

U.S. EPA ID Number:
NYR000092654

FOR APPROVAL: _____
CONSIGNEE PRINT NAME _____
CONSIGNEE SIGN HERE _____
(NO INITIALS)

RECEIVED ABOVE MATERIAL IN GOOD CONDITION
FIRM _____ DATE _____
BY _____ TIME _____ ☐ AM ☐ PM

Solid waste being interpreted to mean only solid waste or waste containing animal and vegetable matter, rubbish, trash, debris, ashes and metal non-toxic sludge and other waste materials which is not a radioactive volatile, highly flammable explosive toxic or hazardous nature as listed.

White Copy - *Riccelli* Yellow Copy - *Driver* Pink Copy - *Land Fill* Gold Copy - *Shipper*

RICCELLI ENTERPRISES INC

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P.O. Box 6418
Syracuse, NY 13217
(315) 433-5115

Rochester
6800 W. Henrietta Road
Rush, NY 14543
(585) 344-8410

Geneva
1210 Gifford Road
Phelps, NY 14532
(315) 548-4049

5068

NON-HAZARDOUS SOLID WASTE MANIFEST

TRANSPORTER	DATE	TIME IN	/ OUT
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217	8/23/17	1305	1320
TRUCK # 517	TRAILER # 220		

CONSIGNEE	SHIPPER
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217 7A-402 PHONE # (315) 433-5115	UNISYS Corporation 3199 Pilot Knob Road MSF1B05 Eagan, Minnesota 55121 PHONE # 651-212-7273 NYR000231571

NO. PIECES	ARTICLES OR DESCRIPTION		WEIGHT
Estimated 30 Tons	Non-DOT / Non-RCRA Regulated Soils	**WEIGHT IN**	
		WEIGHT OUT	
		BILLED WEIGHT	

SHIPPER SIGNATURE _____ PRINT NAME _____

DRIVER SIGNATURE _____ PRINT NAME _____

SPECIAL INSTRUCTIONS:
Approval #:

PROFILE # 7682 WK 1-2 SECTION 3

DESTINATION: Casella
Ontario City LF
1488 Cnty Rte 60
Lowman, NY 14861

U.S. EPA ID Number:
NYR000092654

STANLEY, NY

FOR APPROVAL: _____

CONSIGNEE PRINT NAME _____

CONSIGNEE SIGN HERE _____
(NO INITIALS)

RECEIVED ABOVE MATERIAL IN GOOD CONDITION

FIRM _____ DATE _____

BY _____ TIME _____ ☐ AM ☐ PM

Solid waste being interpreted to mean only solid waste or waste containing animal and vegetable matter, rubbish, trash, debris, ashes and metal non-toxic sludge and other waste materials which is not a radioactive volatile, highly flammable explosive toxic or hazardous nature as listed.

White Copy - *Riccelli* Yellow Copy - *Driver* Pink Copy - *Land Fill* Gold Copy - *Shipper*

RICCELLI ENTERPRISES

Syracuse
P.O. Box 6418
Syracuse, NY 13217
(315) 433-5115

Rochester
6800 W. Henrietta Road
Rush, NY 14543
(585) 344-8410

Geneva
1210 Gifford Road
Phelps, NY 14532
(315) 548-4049

5069

NON-HAZARDOUS SOLID WASTE MANIFEST

TRANSPORTER	DATE	TIME IN / OUT	
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217	8/24/17	0630	0645
TRUCK # 505	TRAILER # 209		

CONSIGNEE	SHIPPER
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217 7A-402 PHONE # (315) 433-5115	UNISYS Corporation 3199 Pilot Knob Road MSF1B05 Eagan, Minnesota 55121 PHONE # 651-212-7273 NYR000231571

NO. PIECES	ARTICLES OR DESCRIPTION		WEIGHT
Estimated 30 Tons	Non-DOT / Non-RCRA Regulated Soils	WEIGHT IN	
		WEIGHT OUT	
		BILLED WEIGHT	

SHIPPER SIGNATURE _____ PRINT NAME _____

DRIVER SIGNATURE Paul L Nino PRINT NAME Paul L Nino

SPECIAL INSTRUCTIONS:
Approval #:
PROFILE # 7622 WELL 2 SECTION 3

DESTINATION: Casella
Ontario City LF
1488 Cnty Rte 60
Lowman, NY 14861
STANLEY NY

U.S. EPA ID Number:
NYR000092654

FOR APPROVAL: _____
CONSIGNEE PRINT NAME _____
CONSIGNEE SIGN HERE _____
(NO INITIALS)

RECEIVED ABOVE MATERIAL IN GOOD CONDITION

FIRM _____ DATE _____
BY _____ TIME _____ ☐ AM ☐ PM

Solid waste being interpreted to mean only solid waste or waste containing animal and vegetable matter, rubbish, trash, debris, ashes and metal non-toxic sludge and other waste materials which is not a radioactive volatile, highly flammable explosive toxic or hazardous nature as listed.

White Copy - *Riccelli* Yellow Copy - *Driver* Pink Copy - *Land Fill* Gold Copy - *Shipper*

RICCELLI ENTERPRISES INC

Syracuse
P.O. Box 6418
Syracuse, NY 13217
(315) 433-5115

Rochester
6800 W. Henrietta Road
Rush, NY 14543
(585) 344-8410

Geneva
1210 Gifford Road
Phelps, NY 14532
(315) 548-4049

5070

NON-HAZARDOUS SOLID WASTE MANIFEST

TRANSPORTER	DATE	TIME IN	TIME OUT
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217	8/24/17	0640	0655
TRUCK # 533	TRAILER # 223		

CONSIGNEE	SHIPPER
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217 7A-402 PHONE # (315) 433-5115	UNISYS Corporation 3199 Pilot Knob Road MSF1B05 Eagan, Minnesota 55121 PHONE # 651-212-7273 NYR000231571

NO. PIECES	ARTICLES OR DESCRIPTION	WEIGHT
Estimated 30 Tons	Non-DOT / Non-RCRA Regulated Soils	**WEIGHT IN**
		WEIGHT OUT
		BILLED WEIGHT

SHIPPER SIGNATURE _____ PRINT NAME _____

DRIVER SIGNATURE _____ PRINT NAME _____

SPECIAL INSTRUCTIONS:
Approval #:

PROFILE # 7692 WE 1-2 SECTION 3

DESTINATION: Casella
Ontario City LF
1488 Cnty Rte 60
Lowman, NY 14861

U.S. EPA ID Number:
NYR000092654

STANLEY, NY

FOR APPROVAL: _____

CONSIGNEE PRINT NAME _____

CONSIGNEE SIGN HERE _____
(NO INITIALS)

RECEIVED ABOVE MATERIAL IN GOOD CONDITION

FIRM _____ DATE _____

BY _____ TIME _____ ☐ AM ☐ PM

Solid waste being interpreted to mean only solid waste or waste containing animal and vegetable matter, rubbish, trash, debris, ashes and metal non-toxic sludge and other waste materials which is not a radioactive volatile, highly flammable explosive toxic or hazardous nature as listed.

White Copy - *Riccelli* Yellow Copy - *Driver* Pink Copy - *Land Fill* Gold Copy - *Shipper*

RICCELLI ENTERPRISES INC

Syracuse
P.O. Box 6418
Syracuse, NY 13217
(315) 433-5115

Rochester
6800 W. Henrietta Road
Rush, NY 14543
(585) 344-8410

Geneva
1210 Gifford Road
Phelps, NY 14532
(315) 548-4049

5071

NON-HAZARDOUS SOLID WASTE MANIFEST

TRANSPORTER	DATE	TIME IN	/ OUT
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217	8/24/17	0705	0720
TRUCK # 517	TRAILER # 220		

CONSIGNEE	SHIPPER
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217 7A-402 PHONE # (315) 433-5115	UNISYS Corporation 3199 Pilot Knob Road MSF1B05 Eagan, Minnesota 55121 PHONE # 651-212-7273 NYR000231571

NO. PIECES	ARTICLES OR DESCRIPTION	WEIGHT
Estimated 30 Tons	Non-DOT / Non-RCRA Regulated Soils	**WEIGHT IN**
		WEIGHT OUT
		BILLED WEIGHT

SHIPPER SIGNATURE _____ PRINT NAME _____

DRIVER SIGNATURE _____ PRINT NAME _____

SPECIAL INSTRUCTIONS:
Approval #:

PROFILE # 7682 WRI-2 SECTION 2

DESTINATION: Casella
Ontario City LF
1488 Cnty Rte 60
Lowman, NY 14861

U.S. EPA ID Number:
NYR000092654

(AR) STANLEY, NY

FOR APPROVAL: _____

CONSIGNEE PRINT NAME _____

CONSIGNEE SIGN HERE _____
(NO INITIALS)

RECEIVED ABOVE MATERIAL IN GOOD CONDITION

FIRM _____ DATE _____

BY _____ TIME _____ ☐ AM ☐ PM

Solid waste being interpreted to mean only solid waste or waste containing animal and vegetable matter, rubbish, trash, debris, ashes and metal non-toxic sludge and other waste materials which is not a radioactive volatile, highly flammable explosive toxic or hazardous nature as listed.

White Copy - *Riccelli* Yellow Copy - *Driver* Pink Copy - *Land Fill* Gold Copy - *Shipper*

RICCELLI ENTERPRISES INC

Syracuse
P.O. Box 6418
Syracuse, NY 13217
(315) 433-5115

Rochester
6800 W. Henrietta Road
Rush, NY 14543
(585) 344-8410

Geneva
1210 Gifford Road
Phelps, NY 14532
(315) 548-4049

5072

NON-HAZARDOUS SOLID WASTE MANIFEST

TRANSPORTER	DATE	TIME IN	/ OUT
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217	8/24/17	0930	0945
TRUCK # 508	TRAILER # 219		

CONSIGNEE	SHIPPER
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217 7A-402 PHONE # (315) 433-5115	UNISYS Corporation 3199 Pilot Knob Road MSF1B05 Eagan, Minnesota 55121 PHONE # 651-212-7273 NYR000231571

NO. PIECES	ARTICLES OR DESCRIPTION		WEIGHT
Estimated 30 Tons	Non-DOT / Non-RCRA Regulated Soils	**WEIGHT IN**	
		WEIGHT OUT	APPX. 37 Ton
		BILLED WEIGHT	

SHIPPER SIGNATURE _____ PRINT NAME _____

DRIVER SIGNATURE _____ PRINT NAME _____

SPECIAL INSTRUCTIONS:
Approval #:

PROFILE # 7682 WR1-2 SECTION 3

DESTINATION: Casella
Ontario City LF
1488 Cnty Rte 60
Lowman, NY 14861
STANLEY, NY

U.S. EPA ID Number:
NYR000092654

FOR APPROVAL: _____

CONSIGNEE PRINT NAME _____

CONSIGNEE SIGN HERE _____
(NO INITIALS)

RECEIVED ABOVE MATERIAL IN GOOD CONDITION

FIRM _____ DATE _____ ☐ AM ☐ PM

BY _____ TIME _____

Solid waste being interpreted to mean only solid waste or waste containing animal and vegetable matter, rubbish, trash, debris, ashes and metal non-toxic sludge and other waste materials which is not a radioactive volatile, highly flammable explosive toxic or hazardous nature as listed.

White Copy - *Riccelli* Yellow Copy - *Driver* Pink Copy - *Land Fill* Gold Copy - *Shipper*

RICCELLI ENTERPRISES INC

Syracuse
P.O. Box 6418
Syracuse, NY 13217
(315) 433-5115

Rochester
6800 W. Henrietta Road
Rush, NY 14543
(585) 344-8410

Geneva
1210 Gifford Road
Phelps, NY 14532
(315) 548-4049

5073

NON-HAZARDOUS SOLID WASTE MANIFEST

TRANSPORTER	DATE	TIME IN / OUT	
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217	8/24/17	1225	1240
TRUCK # 533	TRAILER # 223		

CONSIGNEE	SHIPPER
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217 7A-402 PHONE # (315) 433-5115	UNISYS Corporation 3199 Pilot Knob Road MSF1B05 Eagan, Minnesota 55121 PHONE # 651-212-7273 NYR000231571

NO. PIECES	ARTICLES OR DESCRIPTION		WEIGHT
Estimated 30 Tons	Non-DOT / Non-RCRA Regulated Soils	**WEIGHT IN**	
		WEIGHT OUT	
		BILLED WEIGHT	

SHIPPER SIGNATURE _____ PRINT NAME _____

DRIVER SIGNATURE _____ PRINT NAME _____

SPECIAL INSTRUCTIONS:
Approval #:
PROFILE # 7682 WRI-2 SECTION 4

DESTINATION: Casella
Ontario City LF
1488 Cnty Rte 60
Lowman, NY 14861
STANLEY, NY

U.S. EPA ID Number:
NYR000092654

FOR APPROVAL: _____

CONSIGNEE PRINT NAME _____

CONSIGNEE SIGN HERE _____
(NO INITIALS)

RECEIVED ABOVE MATERIAL IN GOOD CONDITION

FIRM _____ DATE _____

BY _____ TIME _____ ☐ AM ☐ PM

Solid waste being interpreted to mean only solid waste or waste containing animal and vegetable matter, rubbish, trash, debris, ashes and metal non-toxic sludge and other waste materials which is not a radioactive volatile, highly flammable explosive toxic or hazardous nature as listed.

White Copy - *Riccelli* Yellow Copy - *Driver* Pink Copy - *Land Fill* Gold Copy - *Shipper*

RICCELLI ENTERPRISES INC

Syracuse
P.O. Box 6418
Syracuse, NY 13217
(315) 433-5115

Rochester
6800 W. Henrietta Road
Rush, NY 14543
(585) 344-8410

Geneva
1210 Gifford Road
Phelps, NY 14532
(315) 548-4049

5074

NON-HAZARDOUS SOLID WASTE MANIFEST

TRANSPORTER	DATE	TIME IN / OUT	
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217	8/24/17	1255	1310
TRUCK # 517	TRAILER # 220		

CONSIGNEE	SHIPPER
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217 7A-402 PHONE # (315) 433-5115	UNISYS Corporation 3199 Pilot Knob Road MSF1B05 Eagan, Minnesota 55121 PHONE # 651-212-7273 NYR000231571

NO. PIECES	ARTICLES OR DESCRIPTION		WEIGHT
Estimated 30 Tons	Non-DOT / Non-RCRA Regulated Soils	**WEIGHT IN**	
		WEIGHT OUT	
		BILLED WEIGHT	

SHIPPER SIGNATURE _____ PRINT NAME _____

DRIVER SIGNATURE _____ PRINT NAME _____

SPECIAL INSTRUCTIONS:
Approval #:
PROFILE # 7682 WR 1-2 SECTION 4

DESTINATION: Casella
Ontario City LF
1488 Cnty Rte 60
Lowman, NY 14861
STANLEY, NY

U.S. EPA ID Number:
NYR000092654

FOR APPROVAL: _____
CONSIGNEE PRINT NAME _____
CONSIGNEE SIGN HERE _____
(NO INITIALS)

RECEIVED ABOVE MATERIAL IN GOOD CONDITION
FIRM _____ DATE _____
BY _____ TIME _____ ☐ AM ☐ PM

Solid waste being interpreted to mean only solid waste or waste containing animal and vegetable matter, rubbish, trash, debris, ashes and metal non-toxic sludge and other waste materials which is not a radioactive volatile, highly flammable explosive toxic or hazardous nature as listed.

White Copy - *Riccelli* Yellow Copy - *Driver* Pink Copy - *Land Fill* Gold Copy - *Shipper*

RICCELLI ENTERPRISES INC

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P.O. Box 6418
Syracuse, NY 13217
(315) 433-5115

Rochester
6800 W. Henrietta Road
Rush, NY 14543
(585) 344-8410

Geneva
1210 Gifford Road
Phelps, NY 14532
(315) 548-4049

5075

NON-HAZARDOUS SOLID WASTE MANIFEST

TRANSPORTER	DATE	TIME IN / OUT	
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217	8/29/17	0735	0750
TRUCK # 533	TRAILER # 208		

CONSIGNEE	SHIPPER
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217 7A-402 PHONE # (315) 433-5115	UNISYS Corporation 3199 Pilot Knob Road MSF1B05 Eagan, Minnesota 55121 PHONE # 651-212-7273 NYR000231571

NO. PIECES	ARTICLES OR DESCRIPTION		WEIGHT
Estimated 30 Tons	Non-DOT / Non-RCRA Regulated Soils	WEIGHT IN	
		WEIGHT OUT	
		BILLED WEIGHT	

SHIPPER SIGNATURE _____ PRINT NAME _____

DRIVER SIGNATURE _____ PRINT NAME _____

SPECIAL INSTRUCTIONS:
Approval #:
PROFILE # 7692 WR1-2 SECTION 4

DESTINATION: Casella
Ontario City LF
1488 Cnty Rte 60
Lowman, NY 14861 ~~STANLEY, NY~~

U.S. EPA ID Number:
NYR000092654

FOR APPROVAL: _____

CONSIGNEE PRINT NAME _____

CONSIGNEE SIGN HERE _____
(NO INITIALS)

RECEIVED ABOVE MATERIAL IN GOOD CONDITION

FIRM _____ DATE _____

BY _____ TIME _____ ☐ AM ☐ PM

Solid waste being interpreted to mean only solid waste or waste containing animal and vegetable matter, rubbish, trash, debris, ashes and metal non-toxic sludge and other waste materials which is not a radioactive volatile, highly flammable explosive toxic or hazardous nature as listed.

White Copy - *Riccelli* Yellow Copy - *Driver* Pink Copy - *Land Fill* Gold Copy - *Shipper*

RICCELLI ENTERPRISES INC

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Rochester
6800 W. Henrietta Road
Rush, NY 14543
(585) 344-8410

Geneva
1210 Gifford Road
Phelps, NY 14532
(315) 548-4049

5076

NON-HAZARDOUS SOLID WASTE MANIFEST

TRANSPORTER	DATE	TIME IN / OUT
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217	8/29/17	0750 / 0905
TRUCK # 517	TRAILER # 221	

CONSIGNEE	SHIPPER
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217 7A-402 PHONE # (315) 433-5115	UNISYS Corporation 3199 Pilot Knob Road MSF1B05 Eagan, Minnesota 55121 PHONE # 651-212-7273 NYR000231571

NO. PIECES	ARTICLES OR DESCRIPTION	WEIGHT
Estimated 30 Tons	Non-DOT / Non-RCRA Regulated Soils	WEIGHT IN WEIGHT OUT BILLED WEIGHT

SHIPPER SIGNATURE As agent for [illegible] PRINT NAME [illegible]

DRIVER SIGNATURE [signature] PRINT NAME Corey Keach

SPECIAL INSTRUCTIONS:
Approval #:
Profile # 7692 WR 1-2 SECTION 4

DESTINATION: Casella
Ontario City LF
1488 Cnty Rte 60
Lowman, NY 14861 STANLEY, NY

U.S. EPA ID Number:
NYR000092654

FOR APPROVAL: _____
CONSIGNEE PRINT NAME _____
CONSIGNEE SIGN HERE _____
(NO INITIALS)

RECEIVED ABOVE MATERIAL IN GOOD CONDITION
FIRM _____ DATE _____ ☐ AM ☐ PM
BY _____ TIME _____

Solid waste being interpreted to mean only solid waste or waste containing animal and vegetable matter, rubbish, trash, debris, ashes and metal non-toxic sludge and other waste materials which is not a radioactive volatile, highly flammable explosive toxic or hazardous nature as listed.

White Copy - *Riccelli* Yellow Copy - *Driver* Pink Copy - *Land Fill* Gold Copy - *Shipper*

RICCELLI ENTERPRISES INC

Syracuse
P.O. Box 6418
Syracuse, NY 13217
(315) 433-5115

Rochester
6800 W. Henrietta Road
Rush, NY 14543
(585) 344-8410

Geneva
1210 Gifford Road
Phelps, NY 14532
(315) 548-4049

5077

NON-HAZARDOUS SOLID WASTE MANIFEST

TRANSPORTER	DATE	TIME IN / OUT	
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217	8/29/17	1230	1245
TRUCK # 533	TRAILER # 208		

CONSIGNEE	SHIPPER
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217 7A-402 PHONE # (315) 433-5115	UNISYS Corporation 3199 Pilot Knob Road MSF1B05 Eagan, Minnesota 55121 PHONE # 651-212-7273 NYR000231571

NO. PIECES	ARTICLES OR DESCRIPTION		WEIGHT
Estimated 30 Tons	Non-DOT / Non-RCRA Regulated Soils	WEIGHT IN	
		WEIGHT OUT	
		BILLED WEIGHT	

SHIPPER SIGNATURE _____ PRINT NAME _____

DRIVER SIGNATURE _____ PRINT NAME _____

SPECIAL INSTRUCTIONS:
Approval #:

PROFILE # 7693 CONCRETE CWA1-2 SECTION 4

DESTINATION: Casella
Ontario City LF
1488 Cnty Rte 60
Lowman, NY 14861 STANLEY, NY

U.S. EPA ID Number:
NYR000092654

FOR APPROVAL: _____

CONSIGNEE PRINT NAME _____

CONSIGNEE SIGN HERE _____
(NO INITIALS)

RECEIVED ABOVE MATERIAL IN GOOD CONDITION

FIRM _____ DATE _____

BY _____ TIME _____ ☐ AM ☐ PM

Solid waste being interpreted to mean only solid waste or waste containing animal and vegetable matter, rubbish, trash, debris, ashes and metal non-toxic sludge and other waste materials which is not a radioactive volatile, highly flammable explosive toxic or hazardous nature as listed.

White Copy - *Riccelli* Yellow Copy - *Driver* Pink Copy - *Land Fill* Gold Copy - *Shipper*

RICCELLI ENTERPRISES INC

Syracuse
P.O. Box 6418
Syracuse, NY 13217
(315) 433-5115

Rochester
6800 W. Henrietta Road
Rush, NY 14543
(585) 344-8410

Geneva
1210 Gifford Road
Phelps, NY 14532
(315) 548-4049

5078

NON-HAZARDOUS SOLID WASTE MANIFEST

TRANSPORTER	DATE	TIME IN	/ OUT
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217	8/29/17	1315	1330
TRUCK # 517	TRAILER # 221		

CONSIGNEE	SHIPPER
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217 7A-402 PHONE # (315) 433-5115	UNISYS Corporation 3199 Pilot Knob Road MSF1B05 Eagan, Minnesota 55121 PHONE # 651-212-7273 NYR000231571

NO. PIECES	ARTICLES OR DESCRIPTION		WEIGHT
Estimated 30 Tons	Non-DOT / Non-RCRA Regulated Soils	**WEIGHT IN**	
		WEIGHT OUT	
		BILLED WEIGHT	

SHIPPER SIGNATURE Agent for Unisys Ashwin PRINT NAME Ashwin Ramesh

DRIVER SIGNATURE [signature] PRINT NAME Corey Kroad

SPECIAL INSTRUCTIONS:
Approval #:
PROFILE # 7692 WR1-2 SECTION 4 + CONCRETE

DESTINATION: (AR)
Casella
Ontario City LF
1488 Cnty Rte 60
Lowman, NY 14861
STANLEY, NY

U.S. EPA ID Number:
NYR000092654

FOR APPROVAL: _____
CONSIGNEE PRINT NAME _____
CONSIGNEE SIGN HERE _____
(NO INITIALS)

RECEIVED ABOVE MATERIAL IN GOOD CONDITION

FIRM _____ DATE _____ ☐ AM ☐ PM
BY _____ TIME _____

Solid waste being interpreted to mean only solid waste or waste containing animal and vegetable matter, rubbish, trash, debris, ashes and metal non-toxic sludge and other waste materials which is not a radioactive volatile, highly flammable explosive toxic or hazardous nature as listed.

White Copy - *Riccelli* Yellow Copy - *Driver* Pink Copy - *Land Fill* Gold Copy - *Shipper*

RICCELLI ENTERPRISES INC

Syracuse
P.O. Box 6418
Syracuse, NY 13217
(315) 433-5115

Rochester
6800 W. Henrietta Road
Rush, NY 14543
(585) 344-8410

Geneva
1210 Gifford Road
Phelps, NY 14532
(315) 548-4049

5079

NON-HAZARDOUS SOLID WASTE MANIFEST

TRANSPORTER	DATE	TIME IN	/ OUT
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217	8/30/17	0635	0650
TRUCK # 516	TRAILER # 218		

CONSIGNEE	SHIPPER
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217 7A-402 PHONE # (315) 433-5115	UNISYS Corporation 3199 Pilot Knob Road MSF1B05 Eagan, Minnesota 55121 PHONE # 651-212-7273 NYR000231571

NO. PIECES	ARTICLES OR DESCRIPTION	WEIGHT
Estimated 30 Tons	Non-DOT / Non-RCRA Regulated Soils	**WEIGHT IN** **WEIGHT OUT** **BILLED WEIGHT**

SHIPPER SIGNATURE _____ PRINT NAME _____

DRIVER SIGNATURE _____ PRINT NAME _____

SPECIAL INSTRUCTIONS:
Approval #:
PROFILE 76032 WR1-2 SEGMENT 1

DESTINATION: Casella
Ontario City LF
1488 Cnty Rte 60
Lowman, NY 14861

U.S. EPA ID Number:
NYR000092654

STANLEY, NY

FOR APPROVAL: _____

CONSIGNEE PRINT NAME _____

CONSIGNEE SIGN HERE _____
(NO INITIALS)

RECEIVED ABOVE MATERIAL IN GOOD CONDITION

FIRM _____ DATE _____ ☐ AM ☐ PM

BY _____ TIME _____

Solid waste being interpreted to mean only solid waste or waste containing animal and vegetable matter, rubbish, trash, debris, ashes and metal non-toxic sludge and other waste materials which is not a radioactive volatile, highly flammable explosive toxic or hazardous nature as listed.

White Copy - *Riccelli* Yellow Copy - *Driver* Pink Copy - *Land Fill* Gold Copy - *Shipper*

RICCELLI ENTERPRISES

Syracuse
P.O. Box 6418
Syracuse, NY 13217
(315) 433-5115

Rochester
6800 W. Henrietta Road
Rush, NY 14543
(585) 344-8410

Geneva
1210 Gifford Road
Phelps, NY 14532
(315) 548-4049

5080

NON-HAZARDOUS SOLID WASTE MANIFEST

TRANSPORTER	DATE	TIME IN / OUT	
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217	8/30/17	0650	0705
TRUCK # 517	TRAILER # 221		

CONSIGNEE	SHIPPER
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217 7A-402 PHONE # (315) 433-5115	UNISYS Corporation 3199 Pilot Knob Road MSF1B05 Eagan, Minnesota 55121 PHONE # 651-212-7273 NYR000231571

NO. PIECES	ARTICLES OR DESCRIPTION	WEIGHT
Estimated 30 Tons	Non-DOT / Non-RCRA Regulated Soils	**WEIGHT IN**
		WEIGHT OUT
		BILLED WEIGHT

Request for Disposal Approval

SHIPPER SIGNATURE _____ PRINT NAME _____

DRIVER SIGNATURE _____ PRINT NAME Lenny Lee

SPECIAL INSTRUCTIONS:
Approval #:

PROJECT # 7682 WEEK 5 SEGMENT 1

DESTINATION: Casella
Ontario City LF
1488 Cnty Rte 60
Lowman, NY 14861
STANLEY, NY

U.S. EPA ID Number:
NYR000092654

FOR APPROVAL: _____

CONSIGNEE PRINT NAME _____

CONSIGNEE SIGN HERE _____
(NO INITIALS)

RECEIVED ABOVE MATERIAL IN GOOD CONDITION

FIRM _____ DATE _____ ☐ AM ☐ PM

BY _____ TIME _____

Solid waste being interpreted to mean only solid waste or waste containing animal and vegetable matter, rubbish, trash, debris, ashes and metal non-toxic sludge and other waste materials which is not a radioactive volatile, highly flammable explosive toxic or hazardous nature as listed.

White Copy - *Riccelli* Yellow Copy - *Driver* Pink Copy - *Land Fill* Gold Copy - *Shipper*

RICCELLI ENTERPRISES

Syracuse
P.O. Box 6418
Syracuse, NY 13217
(315) 433-5115

Rochester
6800 W. Henrietta Road
Rush, NY 14543
(585) 344-8410

Geneva
1210 Gifford Road
Phelps, NY 14532
(315) 548-4049

5081

NON-HAZARDOUS SOLID WASTE MANIFEST

TRANSPORTER	DATE	TIME IN	/ OUT
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217	8/30/17	0730	0745
TRUCK #	TRAILER #		

CONSIGNEE	SHIPPER
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217 7A-402 PHONE # (315) 433-5115	UNISYS Corporation 3199 Pilot Knob Road MSF1B05 Eagan, Minnesota 55121 PHONE # 651-212-7273 NYR000231571

NO. PIECES	ARTICLES OR DESCRIPTION		WEIGHT
Estimated 30 Tons	Non-DOT / Non-RCRA Regulated Soils	**WEIGHT IN**	
		WEIGHT OUT	
		BILLED WEIGHT	

SHIPPER SIGNATURE _____ PRINT NAME _____

DRIVER SIGNATURE _____ PRINT NAME Johnson

SPECIAL INSTRUCTIONS:
Approval #:
Profile #7682 WR5-6 SEGMENT 1

DESTINATION: Casella
Ontario City LF
1488 Cnty Rte 60
Lowman, NY 14861

U.S. EPA ID Number:
NYR000092654

STANLEY, NY

FOR APPROVAL: _____
CONSIGNEE PRINT NAME _____
CONSIGNEE SIGN HERE _____
(NO INITIALS)

RECEIVED ABOVE MATERIAL IN GOOD CONDITION
FIRM _____ DATE _____
BY _____ TIME _____ ☐ AM ☐ PM

Solid waste being interpreted to mean only solid waste or waste containing animal and vegetable matter, rubbish, trash, debris, ashes and metal non-toxic sludge and other waste materials which is not a radioactive volatile, highly flammable explosive toxic or hazardous nature as listed.

White Copy - *Riccelli* Yellow Copy - *Driver* Pink Copy - *Land Fill* Gold Copy - *Shipper*

RICCELLI ENTERPRISES INC

Syracuse
P.O. Box 6418
Syracuse, NY 13217
(315) 433-5115

Rochester
6800 W. Henrietta Road
Rush, NY 14543
(585) 344-8410

Geneva
1210 Gifford Road
Phelps, NY 14532
(315) 548-4049

5082

NON-HAZARDOUS SOLID WASTE MANIFEST

TRANSPORTER	DATE	TIME IN / OUT	
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217	8/30/17	0910	0825
TRUCK # 520	TRAILER # 159		

CONSIGNEE	SHIPPER
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217 7A-402 PHONE # (315) 433-5115	UNISYS Corporation 3199 Pilot Knob Road MSF1B05 Eagan, Minnesota 55121 PHONE # 651-212-7273 NYR000231571

NO. PIECES	ARTICLES OR DESCRIPTION		WEIGHT
Estimated 30 Tons	Non-DOT / Non-RCRA Regulated Soils	WEIGHT IN	
		WEIGHT OUT	
		BILLED WEIGHT	

SHIPPER SIGNATURE Agent to Unisys PRINT NAME

DRIVER SIGNATURE PRINT NAME M. Mc Hale

SPECIAL INSTRUCTIONS:
Approval #:
PROFILE # 7682 WRS-6 SEGMENT 1

DESTINATION: Casella
Ontario City LF
1488 Cnty Rte 60
Lowman, NY 14861 STANLEY, NY

U.S. EPA ID Number:
NYR000092654

FOR APPROVAL: _____
CONSIGNEE PRINT NAME _____
CONSIGNEE SIGN HERE _____
(NO INITIALS)

RECEIVED ABOVE MATERIAL IN GOOD CONDITION
FIRM _____ DATE _____
BY _____ TIME _____ ☐ AM ☐ PM

Solid waste being interpreted to mean only solid waste or waste containing animal and vegetable matter, rubbish, trash, debris, ashes and metal non-toxic sludge and other waste materials which is not a radioactive volatile, highly flammable explosive toxic or hazardous nature as listed.

White Copy - *Riccelli* Yellow Copy - *Driver* Pink Copy - *Land Fill* Gold Copy - *Shipper*

RICCELLI ENTERPRISES INC

Syracuse
P.O. Box 6418
Syracuse, NY 13217
(315) 433-5115

Rochester
6800 W. Henrietta Road
Rush, NY 14543
(585) 344-8410

Geneva
1210 Gifford Road
Phelps, NY 14532
(315) 548-4049

5083

NON-HAZARDOUS SOLID WASTE MANIFEST

TRANSPORTER	DATE	TIME IN / OUT	
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217	8/30/17	0940	0955
TRUCK # 503	TRAILER # 219		

CONSIGNEE	SHIPPER
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217 7A-402 PHONE # (315) 433-5115	UNISYS Corporation 3199 Pilot Knob Road MSF1B05 Eagan, Minnesota 55121 PHONE # 651-212-7273 NYR000231571

NO. PIECES	ARTICLES OR DESCRIPTION		WEIGHT
Estimated 30 Tons	Non-DOT / Non-RCRA Regulated Soils	WEIGHT IN	
		WEIGHT OUT	Approx 32-40
		BILLED WEIGHT	

SHIPPER SIGNATURE _____ PRINT NAME _____

DRIVER SIGNATURE _____ PRINT NAME _____

SPECIAL INSTRUCTIONS:
Approval #:
PROFILE # 7692 WR9 SEGMENT 2

DESTINATION: Casella
Ontario City LF
1488 Cnty Rte 60
Lowman, NY 14861
STANLEY, NY

U.S. EPA ID Number:
NYR000092654

FOR APPROVAL: _____
CONSIGNEE PRINT NAME _____
CONSIGNEE SIGN HERE _____
(NO INITIALS)

RECEIVED ABOVE MATERIAL IN GOOD CONDITION
FIRM _____ DATE _____
BY _____ TIME _____ ☐ AM ☐ PM

Solid waste being interpreted to mean only solid waste or waste containing animal and vegetable matter, rubbish, trash, debris, ashes and metal non-toxic sludge and other waste materials which is not a radioactive volatile, highly flammable explosive toxic or hazardous nature as listed.

White Copy - *Riccelli* Yellow Copy - *Driver* Pink Copy - *Land Fill* Gold Copy - *Shipper*

RICCELLI ENTERPRISES INC

Syracuse
P.O. Box 6418
Syracuse, NY 13217
(315) 433-5115

Rochester
6800 W. Henrietta Road
Rush, NY 14543
(585) 344-8410

Geneva
1210 Gifford Road
Phelps, NY 14532
(315) 548-4049

5084

NON-HAZARDOUS SOLID WASTE MANIFEST

TRANSPORTER	DATE	TIME IN	/ OUT
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217	8/30/17	1300	1315
TRUCK # 516	TRAILER # 218		

CONSIGNEE	SHIPPER
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217 7A-402 PHONE # (315) 433-5115	UNISYS Corporation 3199 Pilot Knob Road MSF1B05 Eagan, Minnesota 55121 PHONE # 651-212-7273 NYR000231571

NO. PIECES	ARTICLES OR DESCRIPTION	WEIGHT
Estimated 30 Tons	Non-DOT / Non-RCRA Regulated Soils	**WEIGHT IN**
		WEIGHT OUT
		BILLED WEIGHT

SHIPPER SIGNATURE _____ PRINT NAME _____

DRIVER SIGNATURE _____ PRINT NAME Tim Zrebiec

SPECIAL INSTRUCTIONS:
Approval #:
PROFILE # 7637 WR9 SEGMENT 2

DESTINATION: Casella
Ontario City LF
1488 Cnty Rte 60
Lowman, NY 14861
U.S. EPA ID Number:
NYR000092654
STANLEY, NY

FOR APPROVAL: _____

CONSIGNEE PRINT NAME _____

CONSIGNEE SIGN HERE _____
(NO INITIALS)

RECEIVED ABOVE MATERIAL IN GOOD CONDITION

FIRM _____ DATE _____

BY _____ TIME _____ ☐ AM ☐ PM

Solid waste being interpreted to mean only solid waste or waste containing animal and vegetable matter, rubbish, trash, debris, ashes and metal non-toxic sludge and other waste materials which is not a radioactive volatile, highly flammable explosive toxic or hazardous nature as listed.

White Copy - *Riccelli* Yellow Copy - *Driver* Pink Copy - *Land Fill* Gold Copy - *Shipper*

RICCELLI ENTERPRISES INC

Syracuse
P.O. Box 6418
Syracuse, NY 13217
(315) 433-5115

Rochester
6800 W. Henrietta Road
Rush, NY 14543
(585) 344-8410

Geneva
1210 Gifford Road
Phelps, NY 14532
(315) 548-4049

5085

NON-HAZARDOUS SOLID WASTE MANIFEST

TRANSPORTER	DATE	TIME IN	/ OUT
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217	8/30/17	1315	1380
TRUCK # 517	TRAILER # 221		

CONSIGNEE	SHIPPER
RICCELLI ENTERPRISES INC. P.O. BOX 6418 SYRACUSE, NY 13217 7A-402 PHONE # (315) 433-5115	UNISYS Corporation 3199 Pilot Knob Road MSF1B05 Eagan, Minnesota 55121 PHONE # 651-212-7273 NYR000231571

NO. PIECES	ARTICLES OR DESCRIPTION		WEIGHT
Estimated 30 Tons	Non-DOT / Non-RCRA Regulated Soils	WEIGHT IN	
		WEIGHT OUT	
		BILLED WEIGHT	

SHIPPER SIGNATURE Agent for Unisys A. Achuru PRINT NAME Achuru Rayu

DRIVER SIGNATURE [signature] PRINT NAME Lonny Kozub

SPECIAL INSTRUCTIONS:
Approval #:
PROFILE #7652 WR29 SEGMENT 2

DESTINATION: Casella
Ontario City LF
1488 Cnty Rte 60
Lowman, NY 14861
U.S. EPA ID Number:
NYR000092654
(HR) STANLEY, NY

FOR APPROVAL: _____

CONSIGNEE PRINT NAME _____

CONSIGNEE SIGN HERE _____
(NO INITIALS)

RECEIVED ABOVE MATERIAL IN GOOD CONDITION

FIRM _____ DATE _____ ☐ AM ☐ PM

BY _____ TIME _____

Solid waste being interpreted to mean only solid waste or waste containing animal and vegetable matter, rubbish, trash, debris, ashes and metal non-toxic sludge and other waste materials which is not a radioactive volatile, highly flammable explosive toxic or hazardous nature as listed.

White Copy - *Riccelli* Yellow Copy - *Driver* Pink Copy - *Land Fill* Gold Copy - *Shipper*

Site Address: SAME

SC PPW 8/28/2017

WORK ORDER SX1704444207-002

DOCUMENT NO. 1179446

STRAIGHT BILL OF LADING

TRANSPORTER 1 Clean Harbors Environmental Services, Inc. VEHICLE ID # 5427

EPA ID # MAD039322250 TRANS. 1 PHONE (781) 792-5000

TRANSPORTER 2 Thanks Vac Truck Service Inc. VEHICLE ID #

EPA ID # NYD982792814 TRANS. 2 PHONE

DESIGNATED FACILITY		SHIPPER
Spring Grove Resource Recovery Inc.		Unilever
FACILITY EPA ID # OHD000816629		SHIPPER EPA ID # CESQG
ADDRESS 4979 Spring Grove Avenue		ADDRESS 777 S Main St
CITY Cincinnati STATE OH ZIP 45232		CITY Elmira STATE NY ZIP 14904

CONTAINERS NO. & SIZE	TYPE	HM		DESCRIPTION OF MATERIALS	TOTAL QUANTITY	UNIT WT/VOL
3 x TOT 2	~~TT~~ TP		A.	NON HAZARDOUS, NON D.O.T. REGULATED, (RINSE WATER)	EST 6,600	P
			B.			
			C.			
			D.			
			E.			
			F.			
			G.			
			H.			

SPECIAL HANDLING INSTRUCTIONS EMERGENCY PHONE #: (800) 468-8718 GENERATOR: Unilever
A.1612697

SHIPPERS CERTIFICATION: This is to certify that the above named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

SHIPPER	PRINT Kyle Snyder	SIGN		DATE 9/5/17
TRANSPORTER 1	PRINT Blake Robison	SIGN		DATE 9/5/17
TRANSPORTER 2	PRINT Kyle Saunders	SIGN		DATE 9-8-17
RECEIVED BY	PRINT LaKiesha Mason	SIGN		DATE 9-11-17

1

CHI 107

Site Address: SAME

SC PPW 8/28/2017

WORK ORDER NO. SY 1704444307-002

DOCUMENT NO. 1179469

STRAIGHT BILL OF LADING

TRANSPORTER 1 Clean Harbors Environmental Services, Inc. VEHICLE ID # 523T

EPA ID # MAD039322250 TRANS. 1 PHONE (781) 792-5000

TRANSPORTER 2 _____ VEHICLE ID # _____

EPA ID # _____ TRANS. 2 PHONE _____

DESIGNATED FACILITY			SHIPPER		
Spring Grove Resource Recovery Inc.			Unisys		
FACILITY EPA ID #			SHIPPER EPA ID #		
OHD000816629			CESQG		
ADDRESS			ADDRESS		
4879 Spring Grove Avenue			777 S Main St		
CITY	STATE	ZIP	CITY	STATE	ZIP
Cincinnati	OH	45232	Elmira	NY	14904

CONTAINERS NO. & SIZE	TYPE	HM	DESCRIPTION OF MATERIALS	TOTAL QUANTITY	UNIT WT/VOL
5-275 GAL	TOT 2		A. NON HAZARDOUS, NON D.O.T. REGULATED, (RINSE WATER)	EST 1,350	GAL.
			B. NON HAZARDOUS, NON D.O.T. REGULATED, (RINSE WATER)		
			C.		
			D.		
			E.		
			F.		
			G.		
			H.		

SPECIAL HANDLING INSTRUCTIONS EMERGENCY PHONE #: (800) 488-8710 GENERATOR: Unisys

A.1512597 B.1512597

SHIPPERS CERTIFICATION: This is to certify that the above named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

	PRINT	SIGN	DATE
SHIPPER	M Fuhrig		11/13/17
TRANSPORTER 1	STEVE BRAMBLE		11/13/17
TRANSPORTER 2	PRINT	SIGN	DATE
RECEIVED BY	PRINT	SIGN	DATE

4

CHI 107

Site Address: SAME

SC PPW 8/28/2017

WORK ORDER NO. ~~SI 1704444307-002~~

DOCUMENT NO. 1179468

STRAIGHT BILL OF LADING

TRANSPORTER 1 Clean Harbors Environmental Services, Inc. VEHICLE ID #

EPA ID # MAD039322250 TRANS. 1 PHONE (781) 792-5000

TRANSPORTER 2 VEHICLE ID #

EPA ID # TRANS. 2 PHONE

DESIGNATED FACILITY			SHIPPER		
Spring Grove Resource Recovery Inc.			Unisys		
FACILITY EPA ID # OHD000816629			SHIPPER EPA ID # CESQG		
ADDRESS 4879 Spring Grove Avenue			ADDRESS 777 S Main St		
CITY Cincinnati	STATE OH	ZIP 45232	CITY Elmira	STATE NY	ZIP 14904

CONTAINERS NO. & SIZE	TYPE	HM	DESCRIPTION OF MATERIALS	TOTAL QUANTITY	UNIT WT/VOL
1 x 55	DM		A. NON HAZARDOUS, NON D.O.T. REGULATED, (RINSE WATER)	150	P
			B.		
			C.		
			D.		
			E.		
			F.		
			G.		
			H.		

SPECIAL HANDLING INSTRUCTIONS EMERGENCY PHONE #: (800) 488-8718 GENERATOR: Unisys
A.1512597

SHIPPERS CERTIFICATION: This is to certify that the above named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

	PRINT	SIGN	DATE
SHIPPER	M Fellows C		11/15/17
TRANSPORTER 1	PRINT	SIGN	DATE
TRANSPORTER 2	PRINT	SIGN	DATE
RECEIVED BY	PRINT	SIGN	DATE

4

CHI 107

Appendix I

Request to Import Forms

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Request to Import/Reuse Fill or Soil

This form is based on the information required by DER-10, Section 5.4(e). Use of this form is not a substitute for reading the applicable Technical Guidance document.

SECTION 1 – SITE BACKGROUND

The allowable site use is: Restricted Residential Use

Have Ecological Resources been identified? yes

Is this soil originating from the site? no

How many cubic yards of soil will be imported/reused? 800-1000

If greater than 1000 cubic yards will be imported, enter volume to be imported:

SECTION 2 – MATERIAL OTHER THAN SOIL

Is the material to be imported gravel, rock or stone? no

Does it contain less than 10%, by weight, material that would pass a size 80 sieve? yes

Is this virgin material from a permitted mine or quarry? yes

Is this material recycled concrete or brick from a DEC registered processing facility? no

SECTION 3 - SAMPLING

Provide a brief description of the number and type of samples collected in the space below:

Seven (7) Discrete Samples were collected and analyzed for VOCs. Two (2) Composite Samples were collected and analyzed for SVOCs, Inorganics, and PCBs/Pesticides. The chain of custody incorrectly shows the same Sample ID for the composite samples and the first two discrete VOC samples. The Analytical Results have been attached to this form.

Two (2) composite samples were collected and analyzed for grain size distribution and moisture-density.

Example Text: 5 discrete samples were collected and analyzed for VOCs. 2 composite samples were collected and analyzed for SVOCs, Inorganics & PCBs/Pesticides.

If the material meets requirements of DER-10 section 5.5 (other material), no chemical testing needed.

SECTION 3 CONT'D - SAMPLING

Provide a brief written summary of the sampling results or attach evaluation tables (compare to DER-10, Appendix 5):

Analytical results are compared to Restricted Residential SCO.

VOC analyses: acetone, benzene, toluene, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene and total xylenes were detected in 7 of 7 samples at levels below Restricted Residential SCOs.

There were no detections of SVOCs, PCBs, or pesticides in the two composite samples.

Metals analyses: arsenic, barium, beryllium, copper, lead manganese, nickel, zinc, and mercury were detected at levels below Restricted Residential SCOs.

Example Text: Arsenic was detected up to 17 ppm in 1 (of 5) samples; the allowable level is 16 ppm.

If Ecological Resources have been identified use the "If Ecological Resources are Present" column in Appendix 5.

SECTION 4 – SOURCE OF FILL

Name of person providing fill and relationship to the source:

Edger Enterprises

Location where fill was obtained:

Brewer's Pit located in Horseheads NY

Identification of any state or local approvals as a fill source:

NYSDEC Facility ID 8-0734-00150

If no approvals are available, provide a brief history of the use of the property that is the fill source:

Provide a list of supporting documentation included with this request:

Geotechnical Data and the Chemical Analysis Reports

The information provided on this form is accurate and complete.



Signature

6-23-17

Date

Kyle Snyder

Print Name

RECON

Firm

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Request to Import/Reuse Fill or Soil

Former Sperry Remington Site - North Portion
Elmira, New York

Account: REMCONWPA

Lab Sample ID			NYSDEC DER10 App 5 Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010	L916338-01						L916338-02					
Client Sample ID				BREWERS_PIT_1						BREWERS_PIT_2					
Date Collected				06/14/2017						06/14/2017					
Method	Analyte	Units		Result	Qualifier	Validation r	Validation q	Reason cod	Validation date	Result	Qualifier	Validation r	Validation q	Reason cod	Validation date
2540 G-2011	TOTAL SOLIDS	%		94.7					6/27/2017	93.5					6/27/2017
8081	ALDRIN	mg/kg	0.097	<0.0211					6/27/2017	<0.0214					6/27/2017
8081	ALPHA BHC	mg/kg	0.02	<0.0211					6/27/2017	<0.0214					6/27/2017
8081	BETA BHC	mg/kg	0.09	<0.0211					6/27/2017	<0.0214					6/27/2017
8081	DELTA BHC	mg/kg	0.25	<0.0211					6/27/2017	<0.0214					6/27/2017
8081	GAMMA BHC	mg/kg	0.1	<0.0211					6/27/2017	<0.0214					6/27/2017
8081	CHLORDANE	mg/kg		<0.211					6/27/2017	<0.214					6/27/2017
8081	4,4-DDD	mg/kg	13	<0.0211					6/27/2017	<0.0214					6/27/2017
8081	4,4-DDE	mg/kg	8.9	<0.0211					6/27/2017	<0.0214					6/27/2017
8081	4,4-DDT	mg/kg	7.9	<0.0211					6/27/2017	<0.0214					6/27/2017
8081	DIELDRIN	mg/kg	0.1	<0.0211					6/27/2017	<0.0214					6/27/2017
8081	ENDOSULFAN I	mg/kg	24	<0.0211					6/27/2017	<0.0214					6/27/2017
8081	ENDOSULFAN II	mg/kg	24	<0.0211					6/27/2017	<0.0214					6/27/2017
8081	ENDOSULFAN SULFATE	mg/kg	24	<0.0211					6/27/2017	<0.0214					6/27/2017
8081	ENDRIN	mg/kg	0.06	<0.0211					6/27/2017	<0.0214					6/27/2017
8081	ENDRIN ALDEHYDE	mg/kg		<0.0211					6/27/2017	<0.0214					6/27/2017
8081	ENDRIN KETONE	mg/kg		<0.0211					6/27/2017	<0.0214					6/27/2017
8081	HEPTACHLOR	mg/kg	0.38	<0.0211					6/27/2017	<0.0214					6/27/2017
8081	HEPTACHLOR EPOXIDE	mg/kg		<0.0211					6/27/2017	<0.0214					6/27/2017
8081	HEXACHLOROBENZENE	mg/kg	1.2	<0.0211					6/27/2017	<0.0214					6/27/2017
8081	METHOXYCHLOR	mg/kg		<0.0211					6/27/2017	<0.0214					6/27/2017
8081	TOXAPHENE	mg/kg		<0.423					6/27/2017	<0.428					6/27/2017
8081/8082	DECACHLOROBIPHENYL	% Rec		86.6 129					6/27/2017	138 99.2					6/27/2017
8081/8082	TETRACHLORO-M-XYLENE	% Rec		84.2 96.2					6/27/2017	86.8 98.4					6/27/2017
8082	PCB 1016	mg/kg		<0.018					6/27/2017	<0.0182					6/27/2017
8082	PCB 1221	mg/kg		<0.018					6/27/2017	<0.0182					6/27/2017
8082	PCB 1232	mg/kg		<0.018					6/27/2017	<0.0182					6/27/2017
8082	PCB 1242	mg/kg		<0.018					6/27/2017	<0.0182					6/27/2017
8082	PCB 1248	mg/kg		<0.018					6/27/2017	<0.0182					6/27/2017
8082	PCB 1254	mg/kg		<0.018					6/27/2017	<0.0182					6/27/2017
8082	PCB 1260	mg/kg		<0.018					6/27/2017	<0.0182					6/27/2017
8260C	ACETONE	mg/kg	0.05	0.0126	J		J	13	6/27/2017	0.0153	J		J	13	6/27/2017
8260C	ACRYLONITRILE	mg/kg		<0.0106					6/27/2017	<0.0107					6/27/2017
8260C	BENZENE	mg/kg	0.06	0.00142					6/27/2017	0.00198					6/27/2017
8260C	BROMOBENZENE	mg/kg		<0.00106					6/27/2017	<0.00107					6/27/2017
8260C	BROMODICHLOROMETHANE	mg/kg		<0.00106					6/27/2017	<0.00107					6/27/2017
8260C	BROMOFORM	mg/kg		<0.00106					6/27/2017	<0.00107					6/27/2017
8260C	BROMOMETHANE	mg/kg		<0.00528					6/27/2017	<0.00535					6/27/2017
8260C	N-BUTYLBENZENE	mg/kg	12	<0.00106					6/27/2017	<0.00107					6/27/2017
8260C	SEC-BUTYLBENZENE	mg/kg	11	<0.00106					6/27/2017	<0.00107					6/27/2017
8260C	TERT-BUTYLBENZENE	mg/kg	5.9	<0.00106					6/27/2017	<0.00107					6/27/2017

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Request to Import/Reuse Fill or Soil

Former Sperry Remington Site - North Portion
Elmira, New York

Account: REMCONWPA

Lab Sample ID			NYSDEC DER10 App 5 Constituent Levels for Imported Fill or Soil Restricted Residential Use May	L916338-01						L916338-02					
Client Sample ID				BREWERS_PIT_1						BREWERS_PIT_2					
Date Collected				06/14/2017						06/14/2017					
8260C	CARBON TETRACHLORIDE	mg/kg	0.76	<0.00106					6/27/2017	<0.00107					6/27/2017
8260C	CHLOROBENZENE	mg/kg	1.1	<0.00106					6/27/2017	<0.00107					6/27/2017
8260C	CHLORODIBROMOMETHANE	mg/kg		<0.00106					6/27/2017	<0.00107					6/27/2017
8260C	CHLOROETHANE	mg/kg		<0.00528					6/27/2017	<0.00535					6/27/2017
8260C	CHLOROFORM	mg/kg	0.37	<0.00528					6/27/2017	<0.00535					6/27/2017
8260C	CHLOROMETHANE	mg/kg		<0.00264					6/27/2017	<0.00268					6/27/2017
8260C	2-CHLOROTOLUENE	mg/kg		<0.00106					6/27/2017	<0.00107					6/27/2017
8260C	4-CHLOROTOLUENE	mg/kg		<0.00106					6/27/2017	<0.00107					6/27/2017
8260C	1,2-DIBROMO-3-CHLOROPROPANE	mg/kg		<0.00528					6/27/2017	<0.00535					6/27/2017
8260C	1,2-DIBROMOETHANE	mg/kg		<0.00106					6/27/2017	<0.00107					6/27/2017
8260C	DIBROMOMETHANE	mg/kg		<0.00106					6/27/2017	<0.00107					6/27/2017
8260C	1,2-DICHLOROBENZENE	mg/kg	1.1	<0.00106					6/27/2017	<0.00107					6/27/2017
8260C	1,3-DICHLOROBENZENE	mg/kg	2.4	<0.00106					6/27/2017	<0.00107					6/27/2017
8260C	1,4-DICHLOROBENZENE	mg/kg	1.8	<0.00106					6/27/2017	<0.00107					6/27/2017
8260C	DICHLORODIFLUOROMETHANE	mg/kg		<0.00528					6/27/2017	<0.00535					6/27/2017
8260C	1,1-DICHLOROETHANE	mg/kg	0.27	<0.00106					6/27/2017	<0.00107					6/27/2017
8260C	1,2-DICHLOROETHANE	mg/kg	0.02	<0.00106					6/27/2017	<0.00107					6/27/2017
8260C	1,1-DICHLOROETHENE	mg/kg	0.33	<0.00106					6/27/2017	<0.00107					6/27/2017
8260C	CIS-1,2-DICHLOROETHENE	mg/kg	0.25	<0.00106	J4				6/27/2017	<0.00107	J4				6/27/2017
8260C	TRANS-1,2-DICHLOROETHENE	mg/kg	0.19	<0.00106	J4				6/27/2017	<0.00107	J4				6/27/2017
8260C	1,2-DICHLOROPROPANE	mg/kg		<0.00106					6/27/2017	<0.00107					6/27/2017
8260C	1,1-DICHLOROPROPENE	mg/kg		<0.00106					6/27/2017	<0.00107					6/27/2017
8260C	1,3-DICHLOROPROPANE	mg/kg		<0.00106					6/27/2017	<0.00107					6/27/2017
8260C	CIS-1,3-DICHLOROPROPENE	mg/kg		<0.00106					6/27/2017	<0.00107					6/27/2017
8260C	TRANS-1,3-DICHLOROPROPENE	mg/kg		<0.00106					6/27/2017	<0.00107					6/27/2017
8260C	2,2-DICHLOROPROPANE	mg/kg		<0.00106					6/27/2017	<0.00107					6/27/2017
8260C	DI-ISOPROPYL ETHER	mg/kg		<0.00106					6/27/2017	<0.00107					6/27/2017
8260C	ETHYLBENZENE	mg/kg	1	<0.00106					6/27/2017	<0.00107					6/27/2017
8260C	HEXACHLORO-1,3-BUTADIENE	mg/kg		<0.00106					6/27/2017	<0.00107					6/27/2017
8260C	ISOPROPYLBENZENE	mg/kg		<0.00106					6/27/2017	<0.00107					6/27/2017
8260C	P-ISOPROPYLTOLUENE	mg/kg		<0.00106					6/27/2017	<0.00107					6/27/2017
8260C	2-BUTANONE (MEK)	mg/kg	0.12	<0.0106	J0		UJ	9	6/27/2017	<0.0107	J0		UJ	9	6/27/2017
8260C	METHYLENE CHLORIDE	mg/kg	0.05	<0.00528	UJ				6/27/2017	<0.00535	UJ				6/27/2017
8260C	4-METHYL-2-PENTANONE (MIBK)	mg/kg		<0.0106					6/27/2017	<0.0107					6/27/2017
8260C	METHYL TERT-BUTYL ETHER	mg/kg	0.93	<0.00106					6/27/2017	<0.00107					6/27/2017
8260C	NAPHTHALENE	mg/kg	12	<0.00528					6/27/2017	<0.00535					6/27/2017
8260C	N-PROPYLBENZENE	mg/kg	3.9	<0.00106					6/27/2017	<0.00107					6/27/2017
8260C	STYRENE	mg/kg		<0.00106					6/27/2017	<0.00107					6/27/2017
8260C	1,1,1,2-TETRACHLOROETHANE	mg/kg		<0.00106					6/27/2017	<0.00107					6/27/2017
8260C	1,1,2,2-TETRACHLOROETHANE	mg/kg		<0.00106					6/27/2017	<0.00107					6/27/2017
8260C	1,1,2-TRICHLOROTRIFLUOROETHANE	mg/kg		<0.00106					6/27/2017	<0.00107					6/27/2017
8260C	TETRACHLOROETHENE	mg/kg	1.3	<0.00106					6/27/2017	<0.00107					6/27/2017
8260C	TOLUENE	mg/kg	0.7	0.0023	J		J	13	6/27/2017	0.00374	J		J	13	6/27/2017
8260C	1,2,3-TRICHLOROBENZENE	mg/kg		<0.00106					6/27/2017	<0.00107					6/27/2017

NEW YORK STATE
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Request to Import/Reuse Fill or Soil

Former Sperry Remington Site - North Portion
Elmira, New York

Account: REMCONWPA

Lab Sample ID			NYSDEC DER10 App 5 Constituent Levels for Imported Fill or Soil Restricted Residential Use May	L916338-01						L916338-02					
Client Sample ID				BREWERS_PIT_1						BREWERS_PIT_2					
Date Collected				06/14/2017						06/14/2017					
8260C	1,2,4-TRICHLOROBENZENE	mg/kg		<0.00106					6/27/2017	<0.00107					6/27/2017
8260C	1,1,1-TRICHLOROETHANE	mg/kg	0.68	<0.00106					6/27/2017	<0.00107					6/27/2017
8260C	1,1,2-TRICHLOROETHANE	mg/kg		<0.00106					6/27/2017	<0.00107					6/27/2017
8260C	TRICHLOROETHENE	mg/kg	0.47	<0.00106					6/27/2017	<0.00107					6/27/2017
8260C	TRICHLOROFLUOROMETHANE	mg/kg		<0.00528					6/27/2017	<0.00535					6/27/2017
8260C	1,2,3-TRICHLOROPROPANE	mg/kg		<0.00264					6/27/2017	<0.00268					6/27/2017
8260C	1,2,4-TRIMETHYLBENZENE	mg/kg	3.6	0.000479	J		J	13	6/27/2017	0.000661	J		J	13	6/27/2017
8260C	1,2,3-TRIMETHYLBENZENE	mg/kg		<0.00106					6/27/2017	<0.00107					6/27/2017
8260C	VINYL CHLORIDE	mg/kg	0.02	<0.00106					6/27/2017	<0.00107					6/27/2017
8260C	1,3,5-TRIMETHYLBENZENE	mg/kg	8.4	0.000312	J		J	13	6/27/2017	0.000399	J		J	13	6/27/2017
8260C	XYLENES, TOTAL	mg/kg	1.6	0.00184	J		J	13	6/27/2017	0.00293	J		J	13	6/27/2017
8260C	TOLUENE-D8	% Rec		102					6/27/2017	104					6/27/2017
8260C	DIBROMOFLUOROMETHANE	% Rec		122					6/27/2017	122					6/27/2017
8260C	4-BROMOFLUOROBENZENE	% Rec		93.2					6/27/2017	92.3					6/27/2017
8270D	ACENAPHTHENE	mg/kg	98	<0.0349					6/27/2017	<0.0353					6/27/2017
8270D	ACENAPHTHYLENE	mg/kg	100	<0.0349					6/27/2017	<0.0353					6/27/2017
8270D	ANTHRACENE	mg/kg	100	<0.0349					6/27/2017	<0.0353					6/27/2017
8270D	BENZIDINE	mg/kg		<0.352	J4				6/27/2017	<0.356	J4				6/27/2017
8270D	BENZO(A)ANTHRACENE	mg/kg	1	<0.0349					6/27/2017	<0.0353					6/27/2017
8270D	BENZO(B)FLUORANTHENE	mg/kg	1	<0.0349					6/27/2017	<0.0353					6/27/2017
8270D	BENZO(K)FLUORANTHENE	mg/kg	1.7	<0.0349					6/27/2017	<0.0353					6/27/2017
8270D	BENZO(G,H,I)PERYLENE	mg/kg	100	<0.0349					6/27/2017	<0.0353					6/27/2017
8270D	BENZO(A)PYRENE	mg/kg	1	<0.0349					6/27/2017	<0.0353					6/27/2017
8270D	BIS(2-CHLORETHOXY)METHANE	mg/kg		<0.352					6/27/2017	<0.356					6/27/2017
8270D	BIS(2-CHLOROETHYL)ETHER	mg/kg		<0.352					6/27/2017	<0.356					6/27/2017
8270D	BIS(2-CHLOROISOPROPYL)ETHER	mg/kg		<0.352					6/27/2017	<0.356					6/27/2017
8270D	4-BROMOPHENYL-PHENYLETHER	mg/kg		<0.352					6/27/2017	<0.356					6/27/2017
8270D	2-CHLORONAPHTHALENE	mg/kg		<0.0349					6/27/2017	<0.0353					6/27/2017
8270D	4-CHLOROPHENYL-PHENYLETHER	mg/kg		<0.352					6/27/2017	<0.356					6/27/2017
8270D	CHRYSENE	mg/kg	1	<0.0349					6/27/2017	<0.0353					6/27/2017
8270D	DIBENZ(A,H)ANTHRACENE	mg/kg	0.33	<0.0349					6/27/2017	<0.0353					6/27/2017
8270D	3,3-DICHLOROBENZIDINE	mg/kg		<0.352	J4				6/27/2017	<0.356	J4				6/27/2017
8270D	2,4-DINITROTOLUENE	mg/kg		<0.352					6/27/2017	<0.356					6/27/2017
8270D	2,6-DINITROTOLUENE	mg/kg		<0.352					6/27/2017	<0.356					6/27/2017
8270D	FLUORANTHENE	mg/kg	100	<0.0349					6/27/2017	<0.0353					6/27/2017
8270D	FLUORENE	mg/kg	100	<0.0349					6/27/2017	<0.0353					6/27/2017
8270D	HEXACHLOROBENZENE	mg/kg	1.2	<0.352					6/27/2017	<0.356					6/27/2017
8270D	HEXACHLORO-1,3-BUTADIENE	mg/kg		<0.352					6/27/2017	<0.356					6/27/2017
8270D	HEXACHLOROCYCLOPENTADIENE	mg/kg		<0.352					6/27/2017	<0.356					6/27/2017
8270D	HEXACHLOROETHANE	mg/kg		<0.352					6/27/2017	<0.356					6/27/2017
8270D	INDENO(1,2,3-CD)PYRENE	mg/kg	0.5	<0.0349					6/27/2017	<0.0353					6/27/2017
8270D	ISOPHORONE	mg/kg		<0.352					6/27/2017	<0.356					6/27/2017
8270D	NAPHTHALENE	mg/kg	12	<0.0349					6/27/2017	<0.0353					6/27/2017
8270D	NITROBENZENE	mg/kg		<0.352					6/27/2017	<0.356					6/27/2017

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Former Sperry Remington Site - North Portion
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Account: REMCONWPA

Lab Sample ID			NYSDEC DER10 App 5 Constituent Levels for Imported Fill or Soil Restricted Residential Use May	L916338-01						L916338-02					
Client Sample ID				BREWERS_PIT_1						BREWERS_PIT_2					
Date Collected				06/14/2017						06/14/2017					
8270D	N-NITROSODIMETHYLAMINE	mg/kg		<0.352					6/27/2017	<0.356					6/27/2017
8270D	N-NITROSODIPHENYLAMINE	mg/kg		<0.352					6/27/2017	<0.356					6/27/2017
8270D	N-NITROSODI-N-PROPYLAMINE	mg/kg		<0.352					6/27/2017	<0.356					6/27/2017
8270D	PHENANTHRENE	mg/kg	100	<0.0349					6/27/2017	<0.0353					6/27/2017
8270D	BENZYLBUTYL PHTHALATE	mg/kg		<0.352					6/27/2017	<0.356					6/27/2017
8270D	BIS(2-ETHYLHEXYL)PHTHALATE	mg/kg		<0.352					6/27/2017	<0.356					6/27/2017
8270D	DI-N-BUTYL PHTHALATE	mg/kg		<0.352					6/27/2017	<0.356					6/27/2017
8270D	DIETHYL PHTHALATE	mg/kg		<0.352					6/27/2017	<0.356					6/27/2017
8270D	DIMETHYL PHTHALATE	mg/kg		<0.352					6/27/2017	<0.356					6/27/2017
8270D	DI-N-OCTYL PHTHALATE	mg/kg		<0.352					6/27/2017	<0.356					6/27/2017
8270D	PYRENE	mg/kg	100	<0.0349					6/27/2017	<0.0353					6/27/2017
8270D	1,2,4-TRICHLOROBENZENE	mg/kg		<0.352					6/27/2017	<0.356					6/27/2017
8270D	4-CHLORO-3-METHYLPHENOL	mg/kg		<0.352					6/27/2017	<0.356					6/27/2017
8270D	2-CHLOROPHENOL	mg/kg		<0.352					6/27/2017	<0.356					6/27/2017
8270D	2,4-DICHLOROPHENOL	mg/kg		<0.352					6/27/2017	<0.356					6/27/2017
8270D	2,4-DIMETHYLPHENOL	mg/kg		<0.352					6/27/2017	<0.356					6/27/2017
8270D	4,6-DINITRO-2-METHYLPHENOL	mg/kg		<0.352					6/27/2017	<0.356					6/27/2017
8270D	2,4-DINITROPHENOL	mg/kg		<0.352	J3				6/27/2017	<0.356	J3				6/27/2017
8270D	2-NITROPHENOL	mg/kg		<0.352					6/27/2017	<0.356					6/27/2017
8270D	4-NITROPHENOL	mg/kg		<0.352					6/27/2017	<0.356					6/27/2017
8270D	PENTACHLOROPHENOL	mg/kg	0.8	<0.352					6/27/2017	<0.356					6/27/2017
8270D	PHENOL	mg/kg	0.33	<0.352					6/27/2017	<0.356					6/27/2017
8270D	2,4,6-TRICHLOROPHENOL	mg/kg		<0.352					6/27/2017	<0.356					6/27/2017

Qualifiers:J: The identification of the analyte is acceptable; the reported value is an estimate.J0: J0: Calibration verification outside of acceptance limits. Result is estimated.J3: The associated batch QC was outside the established precisely measure the analyte in the sample.

Reason	Description
1	Preservation requirement not met
2	Analysis holding time exceeded
3	Blank contamination (i.e., method, trip,
4	Matrix spike/matrix spike duplicate
5	LCS recovery outside limits
6	Surrogate recovery outside limits
7	Field Duplicate RPD exceeded
8	Serial dilution percent difference
9	Calibration criteria not met
10	Linear range exceeded
11	Internal standard criteria not met
12	Lab duplicates RPD exceeded
13	Other

RPD-relative

NEW YORK STATE
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Former Sperry Remington Site - North Portion
Elmira, New York

Account: REMCONWPA

Lab Sample ID			NYSDEC DER10 App 5 Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010	L916338-03						L916338-04					
Client Sample ID				BREWERS_PIT_3						BREWERS_PIT_4					
Date Collected				06/14/2017						06/14/2017					
Method	Analyte	Units		Result	Qualifier	Validation r	Validation q	Reason cod	Validation date	Result	Qualifier	Validation r	Validation q	Reason cod	Validation date
2540 G-2011	TOTAL SOLIDS	%		95.2					6/27/2017	95.8					6/27/2017
8081	ALDRIN	mg/kg	0.097												
8081	ALPHA BHC	mg/kg	0.02												
8081	BETA BHC	mg/kg	0.09												
8081	DELTA BHC	mg/kg	0.25												
8081	GAMMA BHC	mg/kg	0.1												
8081	CHLORDANE	mg/kg													
8081	4,4-DDD	mg/kg	13												
8081	4,4-DDE	mg/kg	8.9												
8081	4,4-DDT	mg/kg	7.9												
8081	DIELDRIN	mg/kg	0.1												
8081	ENDOSULFAN I	mg/kg	24												
8081	ENDOSULFAN II	mg/kg	24												
8081	ENDOSULFAN SULFATE	mg/kg	24												
8081	ENDRIN	mg/kg	0.06												
8081	ENDRIN ALDEHYDE	mg/kg													
8081	ENDRIN KETONE	mg/kg													
8081	HEPTACHLOR	mg/kg	0.38												
8081	HEPTACHLOR EPOXIDE	mg/kg													
8081	HEXACHLOROBENZENE	mg/kg	1.2												
8081	METHOXYCHLOR	mg/kg													
8081	TOXAPHENE	mg/kg													
8081/8082	DECACHLOROBIPHENYL	% Rec													
8081/8082	TETRACHLORO-M-XYLENE	% Rec													
8082	PCB 1016	mg/kg													
8082	PCB 1221	mg/kg													
8082	PCB 1232	mg/kg													
8082	PCB 1242	mg/kg													
8082	PCB 1248	mg/kg													
8082	PCB 1254	mg/kg													
8082	PCB 1260	mg/kg													
8260C	ACETONE	mg/kg	0.05	0.0142	J		J	13	6/27/2017	0.0177	J		J	13	6/27/2017
8260C	ACRYLONITRILE	mg/kg		<0.0105					6/27/2017	<0.0104					6/27/2017
8260C	BENZENE	mg/kg	0.06	0.00223					6/27/2017	0.00209					6/27/2017
8260C	BROMOBENZENE	mg/kg		<0.00105					6/27/2017	<0.00104					6/27/2017
8260C	BROMODICHLOROMETHANE	mg/kg		<0.00105					6/27/2017	<0.00104					6/27/2017
8260C	BROMOFORM	mg/kg		<0.00105					6/27/2017	<0.00104					6/27/2017
8260C	BROMOMETHANE	mg/kg		<0.00525					6/27/2017	<0.00522					6/27/2017
8260C	N-BUTYLBENZENE	mg/kg	12	<0.00105					6/27/2017	<0.00104					6/27/2017
8260C	SEC-BUTYLBENZENE	mg/kg	11	<0.00105					6/27/2017	<0.00104					6/27/2017
8260C	TERT-BUTYLBENZENE	mg/kg	5.9	<0.00105					6/27/2017	<0.00104					6/27/2017

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Request to Import/Reuse Fill or Soil

Former Sperry Remington Site - North Portion
Elmira, New York

Account: REMCONWPA

Lab Sample ID			NYSDEC DER10 App 5 Constituent Levels for Imported Fill or Soil Restricted Residential Use May	L916338-03						L916338-04					
Client Sample ID				BREWERS_PIT_3						BREWERS_PIT_4					
Date Collected				06/14/2017						06/14/2017					
8260C	CARBON TETRACHLORIDE	mg/kg	0.76	<0.00105					6/27/2017	<0.00104					6/27/2017
8260C	CHLOROBENZENE	mg/kg	1.1	<0.00105					6/27/2017	<0.00104					6/27/2017
8260C	CHLORODIBROMOMETHANE	mg/kg		<0.00105					6/27/2017	<0.00104					6/27/2017
8260C	CHLOROETHANE	mg/kg		<0.00525					6/27/2017	<0.00522					6/27/2017
8260C	CHLOROFORM	mg/kg	0.37	<0.00525					6/27/2017	<0.00522					6/27/2017
8260C	CHLOROMETHANE	mg/kg		<0.00263					6/27/2017	<0.00261					6/27/2017
8260C	2-CHLOROTOLUENE	mg/kg		<0.00105					6/27/2017	<0.00104					6/27/2017
8260C	4-CHLOROTOLUENE	mg/kg		<0.00105					6/27/2017	<0.00104					6/27/2017
8260C	1,2-DIBROMO-3-CHLOROPROPANE	mg/kg		<0.00525					6/27/2017	<0.00522					6/27/2017
8260C	1,2-DIBROMOETHANE	mg/kg		<0.00105					6/27/2017	<0.00104					6/27/2017
8260C	DIBROMOMETHANE	mg/kg		<0.00105					6/27/2017	<0.00104					6/27/2017
8260C	1,2-DICHLOROBENZENE	mg/kg	1.1	<0.00105					6/27/2017	<0.00104					6/27/2017
8260C	1,3-DICHLOROBENZENE	mg/kg	2.4	<0.00105					6/27/2017	<0.00104					6/27/2017
8260C	1,4-DICHLOROBENZENE	mg/kg	1.8	<0.00105					6/27/2017	<0.00104					6/27/2017
8260C	DICHLORODIFLUOROMETHANE	mg/kg		<0.00525					6/27/2017	<0.00522					6/27/2017
8260C	1,1-DICHLOROETHANE	mg/kg	0.27	<0.00105					6/27/2017	<0.00104					6/27/2017
8260C	1,2-DICHLOROETHANE	mg/kg	0.02	<0.00105					6/27/2017	<0.00104					6/27/2017
8260C	1,1-DICHLOROETHENE	mg/kg	0.33	<0.00105					6/27/2017	<0.00104					6/27/2017
8260C	CIS-1,2-DICHLOROETHENE	mg/kg	0.25	<0.00105	J4				6/27/2017	<0.00104	J4				6/27/2017
8260C	TRANS-1,2-DICHLOROETHENE	mg/kg	0.19	<0.00105	J4				6/27/2017	<0.00104	J4				6/27/2017
8260C	1,2-DICHLOROPROPANE	mg/kg		<0.00105					6/27/2017	<0.00104					6/27/2017
8260C	1,1-DICHLOROPROPENE	mg/kg		<0.00105					6/27/2017	<0.00104					6/27/2017
8260C	1,3-DICHLOROPROPANE	mg/kg		<0.00105					6/27/2017	<0.00104					6/27/2017
8260C	CIS-1,3-DICHLOROPROPENE	mg/kg		<0.00105					6/27/2017	<0.00104					6/27/2017
8260C	TRANS-1,3-DICHLOROPROPENE	mg/kg		<0.00105					6/27/2017	<0.00104					6/27/2017
8260C	2,2-DICHLOROPROPANE	mg/kg		<0.00105					6/27/2017	<0.00104					6/27/2017
8260C	DI-ISOPROPYL ETHER	mg/kg		<0.00105					6/27/2017	<0.00104					6/27/2017
8260C	ETHYLBENZENE	mg/kg	1	<0.00105					6/27/2017	<0.00104					6/27/2017
8260C	HEXACHLORO-1,3-BUTADIENE	mg/kg		<0.00105					6/27/2017	<0.00104					6/27/2017
8260C	ISOPROPYLBENZENE	mg/kg		<0.00105					6/27/2017	<0.00104					6/27/2017
8260C	P-ISOPROPYLTOLUENE	mg/kg		<0.00105					6/27/2017	<0.00104					6/27/2017
8260C	2-BUTANONE (MEK)	mg/kg	0.12	<0.0105	J0		UJ	9	6/27/2017	<0.0104	J0		UJ	9	6/27/2017
8260C	METHYLENE CHLORIDE	mg/kg	0.05	<0.00525	UJ				6/27/2017	<0.00522	UJ				6/27/2017
8260C	4-METHYL-2-PENTANONE (MIBK)	mg/kg		<0.0105					6/27/2017	<0.0104					6/27/2017
8260C	METHYL TERT-BUTYL ETHER	mg/kg	0.93	<0.00105					6/27/2017	<0.00104					6/27/2017
8260C	NAPHTHALENE	mg/kg	12	<0.00525					6/27/2017	<0.00522					6/27/2017
8260C	N-PROPYLBENZENE	mg/kg	3.9	<0.00105					6/27/2017	<0.00104					6/27/2017
8260C	STYRENE	mg/kg		<0.00105					6/27/2017	<0.00104					6/27/2017
8260C	1,1,1,2-TETRACHLOROETHANE	mg/kg		<0.00105					6/27/2017	<0.00104					6/27/2017
8260C	1,1,2,2-TETRACHLOROETHANE	mg/kg		<0.00105					6/27/2017	<0.00104					6/27/2017
8260C	1,1,2-TRICHLOROTRIFLUOROETHANE	mg/kg		<0.00105					6/27/2017	<0.00104					6/27/2017
8260C	TETRACHLOROETHENE	mg/kg	1.3	<0.00105					6/27/2017	<0.00104					6/27/2017
8260C	TOLUENE	mg/kg	0.7	0.0034	J		J	13	6/27/2017	0.00337	J		J	13	6/27/2017
8260C	1,2,3-TRICHLOROBENZENE	mg/kg		<0.00105					6/27/2017	<0.00104					6/27/2017

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Request to Import/Reuse Fill or Soil

Former Sperry Remington Site - North Portion
Elmira, New York

Account: REMCONWPA

Lab Sample ID			NYSDEC DER10 App 5 Constituent Levels for Imported Fill or Soil Restricted Residential Use May	L916338-03						L916338-04					
Client Sample ID				BREWERS_PIT_3						BREWERS_PIT_4					
Date Collected				06/14/2017						06/14/2017					
8260C	1,2,4-TRICHLOROBENZENE	mg/kg		<0.00105					6/27/2017	<0.00104					6/27/2017
8260C	1,1,1-TRICHLOROETHANE	mg/kg	0.68	<0.00105					6/27/2017	<0.00104					6/27/2017
8260C	1,1,2-TRICHLOROETHANE	mg/kg		<0.00105					6/27/2017	<0.00104					6/27/2017
8260C	TRICHLOROETHENE	mg/kg	0.47	<0.00105					6/27/2017	<0.00104					6/27/2017
8260C	TRICHLOROFLUOROMETHANE	mg/kg		<0.00525					6/27/2017	<0.00522					6/27/2017
8260C	1,2,3-TRICHLOROPROPANE	mg/kg		<0.00263					6/27/2017	<0.00261					6/27/2017
8260C	1,2,4-TRIMETHYLBENZENE	mg/kg	3.6	0.000599	J		J	13	6/27/2017	0.000585	J		J	13	6/27/2017
8260C	1,2,3-TRIMETHYLBENZENE	mg/kg		<0.00105					6/27/2017	<0.00104					6/27/2017
8260C	VINYL CHLORIDE	mg/kg	0.02	<0.00105					6/27/2017	<0.00104					6/27/2017
8260C	1,3,5-TRIMETHYLBENZENE	mg/kg	8.4	0.000371	J		J	13	6/27/2017	0.000408	J		J	13	6/27/2017
8260C	XYLENES, TOTAL	mg/kg	1.6	0.00259	J		J	13	6/27/2017	0.00259	J		J	13	6/27/2017
8260C	TOLUENE-D8	% Rec		103					6/27/2017	102					6/27/2017
8260C	DIBROMOFLUOROMETHANE	% Rec		124					6/27/2017	124					6/27/2017
8260C	4-BROMOFLUOROBENZENE	% Rec		92.9					6/27/2017	91					6/27/2017
8270D	ACENAPHTHENE	mg/kg	98	<0.0347					6/27/2017	<0.0345					6/27/2017
8270D	ACENAPHTHYLENE	mg/kg	100	<0.0347					6/27/2017	<0.0345					6/27/2017
8270D	ANTHRACENE	mg/kg	100	<0.0347					6/27/2017	<0.0345					6/27/2017
8270D	BENZIDINE	mg/kg		<0.35	J4				6/27/2017	<0.348	J4				6/27/2017
8270D	BENZO(A)ANTHRACENE	mg/kg	1	<0.0347					6/27/2017	<0.0345					6/27/2017
8270D	BENZO(B)FLUORANTHENE	mg/kg	1	<0.0347					6/27/2017	<0.0345					6/27/2017
8270D	BENZO(K)FLUORANTHENE	mg/kg	1.7	<0.0347					6/27/2017	<0.0345					6/27/2017
8270D	BENZO(G,H,I)PERYLENE	mg/kg	100	<0.0347					6/27/2017	<0.0345					6/27/2017
8270D	BENZO(A)PYRENE	mg/kg	1	<0.0347					6/27/2017	<0.0345					6/27/2017
8270D	BIS(2-CHLORETHOXY)METHANE	mg/kg		<0.35					6/27/2017	<0.348					6/27/2017
8270D	BIS(2-CHLOROETHYL)ETHER	mg/kg		<0.35					6/27/2017	<0.348					6/27/2017
8270D	BIS(2-CHLOROISOPROPYL)ETHER	mg/kg		<0.35					6/27/2017	<0.348					6/27/2017
8270D	4-BROMOPHENYL-PHENYLETHER	mg/kg		<0.35					6/27/2017	<0.348					6/27/2017
8270D	2-CHLORONAPHTHALENE	mg/kg		<0.0347					6/27/2017	<0.0345					6/27/2017
8270D	4-CHLOROPHENYL-PHENYLETHER	mg/kg		<0.35					6/27/2017	<0.348					6/27/2017
8270D	CHRYSENE	mg/kg	1	<0.0347					6/27/2017	<0.0345					6/27/2017
8270D	DIBENZ(A,H)ANTHRACENE	mg/kg	0.33	<0.0347					6/27/2017	<0.0345					6/27/2017
8270D	3,3-DICHLOROBENZIDINE	mg/kg		<0.35	J4				6/27/2017	<0.348	J4				6/27/2017
8270D	2,4-DINITROTOLUENE	mg/kg		<0.35					6/27/2017	<0.348					6/27/2017
8270D	2,6-DINITROTOLUENE	mg/kg		<0.35					6/27/2017	<0.348					6/27/2017
8270D	FLUORANTHENE	mg/kg	100	<0.0347					6/27/2017	<0.0345					6/27/2017
8270D	FLUORENE	mg/kg	100	<0.0347					6/27/2017	<0.0345					6/27/2017
8270D	HEXACHLOROBENZENE	mg/kg	1.2	<0.35					6/27/2017	<0.348					6/27/2017
8270D	HEXACHLORO-1,3-BUTADIENE	mg/kg		<0.35					6/27/2017	<0.348					6/27/2017
8270D	HEXACHLOROCYCLOPENTADIENE	mg/kg		<0.35					6/27/2017	<0.348					6/27/2017
8270D	HEXACHLOROETHANE	mg/kg		<0.35					6/27/2017	<0.348					6/27/2017
8270D	INDENO(1,2,3-CD)PYRENE	mg/kg	0.5	<0.0347					6/27/2017	<0.0345					6/27/2017
8270D	ISOPHORONE	mg/kg		<0.35					6/27/2017	<0.348					6/27/2017
8270D	NAPHTHALENE	mg/kg	12	<0.0347					6/27/2017	<0.0345					6/27/2017
8270D	NITROBENZENE	mg/kg		<0.35					6/27/2017	<0.348					6/27/2017

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Request to Import/Reuse Fill or Soil

Former Sperry Remington Site - North Portion
Elmira, New York

Account: REMCONWPA

Lab Sample ID			NYSDEC DER10 App 5 Constituent Levels for Imported Fill or Soil Restricted Residential Use May	L916338-03						L916338-04					
Client Sample ID				BREWERS_PIT_3						BREWERS_PIT_4					
Date Collected				06/14/2017						06/14/2017					
8270D	N-NITROSODIMETHYLAMINE	mg/kg		<0.35					6/27/2017	<0.348					6/27/2017
8270D	N-NITROSODIPHENYLAMINE	mg/kg		<0.35					6/27/2017	<0.348					6/27/2017
8270D	N-NITROSODI-N-PROPYLAMINE	mg/kg		<0.35					6/27/2017	<0.348					6/27/2017
8270D	PHENANTHRENE	mg/kg	100	<0.0347					6/27/2017	<0.0345					6/27/2017
8270D	BENZYLBUTYL PHTHALATE	mg/kg		<0.35					6/27/2017	<0.348					6/27/2017
8270D	BIS(2-ETHYLHEXYL)PHTHALATE	mg/kg		<0.35					6/27/2017	<0.348					6/27/2017
8270D	DI-N-BUTYL PHTHALATE	mg/kg		<0.35					6/27/2017	<0.348					6/27/2017
8270D	DIETHYL PHTHALATE	mg/kg		<0.35					6/27/2017	<0.348					6/27/2017
8270D	DIMETHYL PHTHALATE	mg/kg		<0.35					6/27/2017	<0.348					6/27/2017
8270D	DI-N-OCTYL PHTHALATE	mg/kg		<0.35					6/27/2017	<0.348					6/27/2017
8270D	PYRENE	mg/kg	100	<0.0347					6/27/2017	<0.0345					6/27/2017
8270D	1,2,4-TRICHLOROBENZENE	mg/kg		<0.35					6/27/2017	<0.348					6/27/2017
8270D	4-CHLORO-3-METHYLPHENOL	mg/kg		<0.35					6/27/2017	<0.348					6/27/2017
8270D	2-CHLOROPHENOL	mg/kg		<0.35					6/27/2017	<0.348					6/27/2017
8270D	2,4-DICHLOROPHENOL	mg/kg		<0.35					6/27/2017	<0.348					6/27/2017
8270D	2,4-DIMETHYLPHENOL	mg/kg		<0.35					6/27/2017	<0.348					6/27/2017
8270D	4,6-DINITRO-2-METHYLPHENOL	mg/kg		<0.35					6/27/2017	<0.348					6/27/2017
8270D	2,4-DINITROPHENOL	mg/kg		<0.35	J3				6/27/2017	<0.348	J3				6/27/2017
8270D	2-NITROPHENOL	mg/kg		<0.35					6/27/2017	<0.348					6/27/2017
8270D	4-NITROPHENOL	mg/kg		<0.35					6/27/2017	<0.348					6/27/2017
8270D	PENTACHLOROPHENOL	mg/kg	0.8	<0.35					6/27/2017	<0.348					6/27/2017
8270D	PHENOL	mg/kg	0.33	<0.35					6/27/2017	<0.348					6/27/2017
8270D	2,4,6-TRICHLOROPHENOL	mg/kg		<0.35					6/27/2017	<0.348					6/27/2017

Qualifiers:J: The identification of the analyte is acceptable; the reported value is an est quality control range for precision.J4: The associated batch QC was outside the established quality control range for accuracy. UJ: The analy precisely measure the analyte in the sample.

Reason	Description
1	Preservation requirement not met
2	Analysis holding time exceeded
3	Blank contamination (i.e., method, trip,
4	Matrix spike/matrix spike duplicate
5	LCS recovery outside limits
6	Surrogate recovery outside limits
7	Field Duplicate RPD exceeded
8	Serial dilution percent difference
9	Calibration criteria not met
10	Linear range exceeded
11	Internal standard criteria not met
12	Lab duplicates RPD exceeded
13	Other

RPD-relative

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Request to Import/Reuse Fill or Soil

Former Sperry Remington Site - North Portion
Elmira, New York

Account: REMCONWPA

Lab Sample ID			NYSDEC DER10 App 5 Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010	L916338-05						L916338-06					
Client Sample ID				BREWERS_PIT_5						BREWERS_PIT_6					
Date Collected				06/14/2017						06/14/2017					
Method	Analyte	Units		Result	Qualifier	Validation r	Validation q	Reason cod	Validation date	Result	Qualifier	Validation r	Validation q	Reason cod	Validation date
2540 G-2011	TOTAL SOLIDS	%		94.4					6/27/2017	96					6/27/2017
8081	ALDRIN	mg/kg	0.097												
8081	ALPHA BHC	mg/kg	0.02												
8081	BETA BHC	mg/kg	0.09												
8081	DELTA BHC	mg/kg	0.25												
8081	GAMMA BHC	mg/kg	0.1												
8081	CHLORDANE	mg/kg													
8081	4,4-DDD	mg/kg	13												
8081	4,4-DDE	mg/kg	8.9												
8081	4,4-DDT	mg/kg	7.9												
8081	DIELDRIN	mg/kg	0.1												
8081	ENDOSULFAN I	mg/kg	24												
8081	ENDOSULFAN II	mg/kg	24												
8081	ENDOSULFAN SULFATE	mg/kg	24												
8081	ENDRIN	mg/kg	0.06												
8081	ENDRIN ALDEHYDE	mg/kg													
8081	ENDRIN KETONE	mg/kg													
8081	HEPTACHLOR	mg/kg	0.38												
8081	HEPTACHLOR EPOXIDE	mg/kg													
8081	HEXACHLOROBENZENE	mg/kg	1.2												
8081	METHOXYCHLOR	mg/kg													
8081	TOXAPHENE	mg/kg													
8081/8082	DECACHLOROBIPHENYL	% Rec													
8081/8082	TETRACHLORO-M-XYLENE	% Rec													
8082	PCB 1016	mg/kg													
8082	PCB 1221	mg/kg													
8082	PCB 1232	mg/kg													
8082	PCB 1242	mg/kg													
8082	PCB 1248	mg/kg													
8082	PCB 1254	mg/kg													
8082	PCB 1260	mg/kg													
8260C	ACETONE	mg/kg	0.05	0.0236	J		J	13	6/27/2017	0.0144	J		J	13	6/27/2017
8260C	ACRYLONITRILE	mg/kg		<0.0106					6/27/2017	<0.0104					6/27/2017
8260C	BENZENE	mg/kg	0.06	0.00231					6/27/2017	0.00206					6/27/2017
8260C	BROMOBENZENE	mg/kg		<0.00106					6/27/2017	<0.00104					6/27/2017
8260C	BROMODICHLOROMETHANE	mg/kg		<0.00106					6/27/2017	<0.00104					6/27/2017
8260C	BROMOFORM	mg/kg		<0.00106					6/27/2017	<0.00104					6/27/2017
8260C	BROMOMETHANE	mg/kg		<0.0053					6/27/2017	<0.00521					6/27/2017
8260C	N-BUTYLBENZENE	mg/kg	12	<0.00106					6/27/2017	<0.00104					6/27/2017
8260C	SEC-BUTYLBENZENE	mg/kg	11	<0.00106					6/27/2017	<0.00104					6/27/2017
8260C	TERT-BUTYLBENZENE	mg/kg	5.9	<0.00106					6/27/2017	<0.00104					6/27/2017

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Account: REMCONWPA

Lab Sample ID			NYSDEC DER10 App 5 Constituent Levels for Imported Fill or Soil Restricted Residential Use May	L916338-05						L916338-06					
Client Sample ID				BREWERS_PIT_5						BREWERS_PIT_6					
Date Collected				06/14/2017						06/14/2017					
8260C	CARBON TETRACHLORIDE	mg/kg	0.76	<0.00106					6/27/2017	<0.00104					6/27/2017
8260C	CHLOROBENZENE	mg/kg	1.1	<0.00106					6/27/2017	<0.00104					6/27/2017
8260C	CHLORODIBROMOMETHANE	mg/kg		<0.00106					6/27/2017	<0.00104					6/27/2017
8260C	CHLOROETHANE	mg/kg		<0.0053					6/27/2017	<0.00521					6/27/2017
8260C	CHLOROFORM	mg/kg	0.37	<0.0053					6/27/2017	<0.00521					6/27/2017
8260C	CHLOROMETHANE	mg/kg		<0.00265					6/27/2017	<0.0026					6/27/2017
8260C	2-CHLOROTOLUENE	mg/kg		<0.00106					6/27/2017	<0.00104					6/27/2017
8260C	4-CHLOROTOLUENE	mg/kg		<0.00106					6/27/2017	<0.00104					6/27/2017
8260C	1,2-DIBROMO-3-CHLOROPROPANE	mg/kg		<0.0053					6/27/2017	<0.00521					6/27/2017
8260C	1,2-DIBROMOETHANE	mg/kg		<0.00106					6/27/2017	<0.00104					6/27/2017
8260C	DIBROMOMETHANE	mg/kg		<0.00106					6/27/2017	<0.00104					6/27/2017
8260C	1,2-DICHLOROBENZENE	mg/kg	1.1	<0.00106					6/27/2017	<0.00104					6/27/2017
8260C	1,3-DICHLOROBENZENE	mg/kg	2.4	<0.00106					6/27/2017	<0.00104					6/27/2017
8260C	1,4-DICHLOROBENZENE	mg/kg	1.8	<0.00106					6/27/2017	<0.00104					6/27/2017
8260C	DICHLORODIFLUOROMETHANE	mg/kg		<0.0053					6/27/2017	<0.00521					6/27/2017
8260C	1,1-DICHLOROETHANE	mg/kg	0.27	<0.00106					6/27/2017	<0.00104					6/27/2017
8260C	1,2-DICHLOROETHANE	mg/kg	0.02	<0.00106					6/27/2017	<0.00104					6/27/2017
8260C	1,1-DICHLOROETHENE	mg/kg	0.33	<0.00106					6/27/2017	<0.00104					6/27/2017
8260C	CIS-1,2-DICHLOROETHENE	mg/kg	0.25	<0.00106	J4				6/27/2017	<0.00104	J4				6/27/2017
8260C	TRANS-1,2-DICHLOROETHENE	mg/kg	0.19	<0.00106	J4				6/27/2017	<0.00104	J4				6/27/2017
8260C	1,2-DICHLOROPROPANE	mg/kg		<0.00106					6/27/2017	<0.00104					6/27/2017
8260C	1,1-DICHLOROPROPENE	mg/kg		<0.00106					6/27/2017	<0.00104					6/27/2017
8260C	1,3-DICHLOROPROPANE	mg/kg		<0.00106					6/27/2017	<0.00104					6/27/2017
8260C	CIS-1,3-DICHLOROPROPENE	mg/kg		<0.00106					6/27/2017	<0.00104					6/27/2017
8260C	TRANS-1,3-DICHLOROPROPENE	mg/kg		<0.00106					6/27/2017	<0.00104					6/27/2017
8260C	2,2-DICHLOROPROPANE	mg/kg		<0.00106					6/27/2017	<0.00104					6/27/2017
8260C	DI-ISOPROPYL ETHER	mg/kg		<0.00106					6/27/2017	<0.00104					6/27/2017
8260C	ETHYLBENZENE	mg/kg	1	<0.00106					6/27/2017	<0.00104					6/27/2017
8260C	HEXACHLORO-1,3-BUTADIENE	mg/kg		<0.00106					6/27/2017	<0.00104					6/27/2017
8260C	ISOPROPYLBENZENE	mg/kg		<0.00106					6/27/2017	<0.00104					6/27/2017
8260C	P-ISOPROPYLTOLUENE	mg/kg		<0.00106					6/27/2017	<0.00104					6/27/2017
8260C	2-BUTANONE (MEK)	mg/kg	0.12	<0.0106	J0		UJ	9	6/27/2017	<0.0104	J0		UJ	9	6/27/2017
8260C	METHYLENE CHLORIDE	mg/kg	0.05	<0.0053	UJ				6/27/2017	<0.00521	UJ				6/27/2017
8260C	4-METHYL-2-PENTANONE (MIBK)	mg/kg		<0.0106					6/27/2017	<0.0104					6/27/2017
8260C	METHYL TERT-BUTYL ETHER	mg/kg	0.93	<0.00106					6/27/2017	<0.00104					6/27/2017
8260C	NAPHTHALENE	mg/kg	12	<0.0053					6/27/2017	<0.00521					6/27/2017
8260C	N-PROPYLBENZENE	mg/kg	3.9	<0.00106					6/27/2017	<0.00104					6/27/2017
8260C	STYRENE	mg/kg		<0.00106					6/27/2017	<0.00104					6/27/2017
8260C	1,1,1,2-TETRACHLOROETHANE	mg/kg		<0.00106					6/27/2017	<0.00104					6/27/2017
8260C	1,1,2,2-TETRACHLOROETHANE	mg/kg		<0.00106					6/27/2017	<0.00104					6/27/2017
8260C	1,1,2-TRICHLOROTRIFLUOROETHANE	mg/kg		<0.00106					6/27/2017	<0.00104					6/27/2017
8260C	TETRACHLOROETHENE	mg/kg	1.3	<0.00106					6/27/2017	<0.00104					6/27/2017
8260C	TOLUENE	mg/kg	0.7	0.00402	J		J	13	6/27/2017	0.00346	J		J	13	6/27/2017
8260C	1,2,3-TRICHLOROBENZENE	mg/kg		<0.00106					6/27/2017	<0.00104					6/27/2017

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Request to Import/Reuse Fill or Soil

Former Sperry Remington Site - North Portion
Elmira, New York

Account: REMCONWPA

Lab Sample ID			NYSDEC DER10 App 5 Constituent Levels for Imported Fill or Soil Restricted Residential Use May	L916338-05						L916338-06					
Client Sample ID				BREWERS_PIT_5						BREWERS_PIT_6					
Date Collected				06/14/2017						06/14/2017					
8260C	1,2,4-TRICHLOROBENZENE	mg/kg		<0.00106					6/27/2017	<0.00104					6/27/2017
8260C	1,1,1-TRICHLOROETHANE	mg/kg	0.68	<0.00106					6/27/2017	<0.00104					6/27/2017
8260C	1,1,2-TRICHLOROETHANE	mg/kg		<0.00106					6/27/2017	<0.00104					6/27/2017
8260C	TRICHLOROETHENE	mg/kg	0.47	<0.00106					6/27/2017	<0.00104					6/27/2017
8260C	TRICHLOROFLUOROMETHANE	mg/kg		<0.0053					6/27/2017	<0.00521					6/27/2017
8260C	1,2,3-TRICHLOROPROPANE	mg/kg		<0.00265					6/27/2017	<0.0026					6/27/2017
8260C	1,2,4-TRIMETHYLBENZENE	mg/kg	3.6	0.000787	J		J	13	6/27/2017	0.000533	J		J	13	6/27/2017
8260C	1,2,3-TRIMETHYLBENZENE	mg/kg		<0.00106					6/27/2017	<0.00104					6/27/2017
8260C	VINYL CHLORIDE	mg/kg	0.02	<0.00106					6/27/2017	<0.00104					6/27/2017
8260C	1,3,5-TRIMETHYLBENZENE	mg/kg	8.4	0.00049	J		J	13	6/27/2017	0.000381	J		J	13	6/27/2017
8260C	XYLENES, TOTAL	mg/kg	1.6	0.00329					6/27/2017	0.00261	J		J	13	6/27/2017
8260C	TOLUENE-D8	% Rec		104					6/27/2017	104					6/27/2017
8260C	DIBROMOFLUOROMETHANE	% Rec		123					6/27/2017	124					6/27/2017
8260C	4-BROMOFLUOROBENZENE	% Rec		92.3					6/27/2017	91					6/27/2017
8270D	ACENAPHTHENE	mg/kg	98	<0.035					6/27/2017	<0.0344					6/27/2017
8270D	ACENAPHTHYLENE	mg/kg	100	<0.035					6/27/2017	<0.0344					6/27/2017
8270D	ANTHRACENE	mg/kg	100	<0.035					6/27/2017	<0.0344					6/27/2017
8270D	BENZIDINE	mg/kg		<0.353	J4				6/27/2017	<0.347	J4				6/27/2017
8270D	BENZO(A)ANTHRACENE	mg/kg	1	<0.035					6/27/2017	<0.0344					6/27/2017
8270D	BENZO(B)FLUORANTHENE	mg/kg	1	<0.035					6/27/2017	<0.0344					6/27/2017
8270D	BENZO(K)FLUORANTHENE	mg/kg	1.7	<0.035					6/27/2017	<0.0344					6/27/2017
8270D	BENZO(G,H,I)PERYLENE	mg/kg	100	<0.035					6/27/2017	<0.0344					6/27/2017
8270D	BENZO(A)PYRENE	mg/kg	1	<0.035					6/27/2017	<0.0344					6/27/2017
8270D	BIS(2-CHLORETHOXY)METHANE	mg/kg		<0.353					6/27/2017	<0.347					6/27/2017
8270D	BIS(2-CHLOROETHYL)ETHER	mg/kg		<0.353					6/27/2017	<0.347					6/27/2017
8270D	BIS(2-CHLOROISOPROPYL)ETHER	mg/kg		<0.353					6/27/2017	<0.347					6/27/2017
8270D	4-BROMOPHENYL-PHENYLETHER	mg/kg		<0.353					6/27/2017	<0.347					6/27/2017
8270D	2-CHLORONAPHTHALENE	mg/kg		<0.035					6/27/2017	<0.0344					6/27/2017
8270D	4-CHLOROPHENYL-PHENYLETHER	mg/kg		<0.353					6/27/2017	<0.347					6/27/2017
8270D	CHRYSENE	mg/kg	1	<0.035					6/27/2017	<0.0344					6/27/2017
8270D	DIBENZ(A,H)ANTHRACENE	mg/kg	0.33	<0.035					6/27/2017	<0.0344					6/27/2017
8270D	3,3-DICHLOROBENZIDINE	mg/kg		<0.353	J4				6/27/2017	<0.347	J4				6/27/2017
8270D	2,4-DINITROTOLUENE	mg/kg		<0.353					6/27/2017	<0.347					6/27/2017
8270D	2,6-DINITROTOLUENE	mg/kg		<0.353					6/27/2017	<0.347					6/27/2017
8270D	FLUORANTHENE	mg/kg	100	<0.035					6/27/2017	<0.0344					6/27/2017
8270D	FLUORENE	mg/kg	100	<0.035					6/27/2017	<0.0344					6/27/2017
8270D	HEXACHLOROBENZENE	mg/kg	1.2	<0.353					6/27/2017	<0.347					6/27/2017
8270D	HEXACHLORO-1,3-BUTADIENE	mg/kg		<0.353					6/27/2017	<0.347					6/27/2017
8270D	HEXACHLOROCYCLOPENTADIENE	mg/kg		<0.353					6/27/2017	<0.347					6/27/2017
8270D	HEXACHLOROETHANE	mg/kg		<0.353					6/27/2017	<0.347					6/27/2017
8270D	INDENO(1,2,3-CD)PYRENE	mg/kg	0.5	<0.035					6/27/2017	<0.0344					6/27/2017
8270D	ISOPHORONE	mg/kg		<0.353					6/27/2017	<0.347					6/27/2017
8270D	NAPHTHALENE	mg/kg	12	<0.035					6/27/2017	<0.0344					6/27/2017
8270D	NITROBENZENE	mg/kg		<0.353					6/27/2017	<0.347					6/27/2017

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Request to Import/Reuse Fill or Soil

Former Sperry Remington Site - North Portion
Elmira, New York

Account: REMCONWPA

Lab Sample ID			NYSDEC DER10 App 5 Constituent Levels for Imported Fill or Soil Restricted Residential Use May	L916338-05						L916338-06					
Client Sample ID				BREWERS_PIT_5						BREWERS_PIT_6					
Date Collected				06/14/2017						06/14/2017					
8270D	N-NITROSODIMETHYLAMINE	mg/kg		<0.353					6/27/2017	<0.347					6/27/2017
8270D	N-NITROSODIPHENYLAMINE	mg/kg		<0.353					6/27/2017	<0.347					6/27/2017
8270D	N-NITROSODI-N-PROPYLAMINE	mg/kg		<0.353					6/27/2017	<0.347					6/27/2017
8270D	PHENANTHRENE	mg/kg	100	<0.035					6/27/2017	<0.0344					6/27/2017
8270D	BENZYLBUTYL PHTHALATE	mg/kg		<0.353					6/27/2017	<0.347					6/27/2017
8270D	BIS(2-ETHYLHEXYL)PHTHALATE	mg/kg		<0.353					6/27/2017	<0.347					6/27/2017
8270D	DI-N-BUTYL PHTHALATE	mg/kg		<0.353					6/27/2017	<0.347					6/27/2017
8270D	DIETHYL PHTHALATE	mg/kg		<0.353					6/27/2017	<0.347					6/27/2017
8270D	DIMETHYL PHTHALATE	mg/kg		<0.353					6/27/2017	<0.347					6/27/2017
8270D	DI-N-OCTYL PHTHALATE	mg/kg		<0.353					6/27/2017	<0.347					6/27/2017
8270D	PYRENE	mg/kg	100	<0.035					6/27/2017	<0.0344					6/27/2017
8270D	1,2,4-TRICHLOROBENZENE	mg/kg		<0.353					6/27/2017	<0.347					6/27/2017
8270D	4-CHLORO-3-METHYLPHENOL	mg/kg		<0.353					6/27/2017	<0.347					6/27/2017
8270D	2-CHLOROPHENOL	mg/kg		<0.353					6/27/2017	<0.347					6/27/2017
8270D	2,4-DICHLOROPHENOL	mg/kg		<0.353					6/27/2017	<0.347					6/27/2017
8270D	2,4-DIMETHYLPHENOL	mg/kg		<0.353					6/27/2017	<0.347					6/27/2017
8270D	4,6-DINITRO-2-METHYLPHENOL	mg/kg		<0.353					6/27/2017	<0.347					6/27/2017
8270D	2,4-DINITROPHENOL	mg/kg		<0.353	J3				6/27/2017	<0.347	J3				6/27/2017
8270D	2-NITROPHENOL	mg/kg		<0.353					6/27/2017	<0.347					6/27/2017
8270D	4-NITROPHENOL	mg/kg		<0.353					6/27/2017	<0.347					6/27/2017
8270D	PENTACHLOROPHENOL	mg/kg	0.8	<0.353					6/27/2017	<0.347					6/27/2017
8270D	PHENOL	mg/kg	0.33	<0.353					6/27/2017	<0.347					6/27/2017
8270D	2,4,6-TRICHLOROPHENOL	mg/kg		<0.353					6/27/2017	<0.347					6/27/2017

Qualifiers:J: The identification of the analyte is acceptable; the reported value is an esrte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not r precisely measure the analyte in the sample.

Reason	Description
1	Preservation requirement not met
2	Analysis holding time exceeded
3	Blank contamination (i.e., method, trip,
4	Matrix spike/matrix spike duplicate
5	LCS recovery outside limits
6	Surrogate recovery outside limits
7	Field Duplicate RPD exceeded
8	Serial dilution percent difference
9	Calibration criteria not met
10	Linear range exceeded
11	Internal standard criteria not met
12	Lab duplicates RPD exceeded
13	Other

RPD-relative

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Request to Import/Reuse Fill or Soil

Former Sperry Remington Site - North Portion
Elmira, New York

Account: REMCONWPA

Lab Sample ID			NYSDEC DER10 App 5 Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010	L916338-07					
Client Sample ID				BREWERS_PIT_7					
Date Collected				06/14/2017					
Method	Analyte	Units		Result	Qualifier	Validation r	Validation q	Reason cod	Validation date
2540 G-2011	TOTAL SOLIDS	%		95.5					6/27/2017
8081	ALDRIN	mg/kg	0.097						
8081	ALPHA BHC	mg/kg	0.02						
8081	BETA BHC	mg/kg	0.09						
8081	DELTA BHC	mg/kg	0.25						
8081	GAMMA BHC	mg/kg	0.1						
8081	CHLORDANE	mg/kg							
8081	4,4-DDD	mg/kg	13						
8081	4,4-DDE	mg/kg	8.9						
8081	4,4-DDT	mg/kg	7.9						
8081	DIELDRIN	mg/kg	0.1						
8081	ENDOSULFAN I	mg/kg	24						
8081	ENDOSULFAN II	mg/kg	24						
8081	ENDOSULFAN SULFATE	mg/kg	24						
8081	ENDRIN	mg/kg	0.06						
8081	ENDRIN ALDEHYDE	mg/kg							
8081	ENDRIN KETONE	mg/kg							
8081	HEPTACHLOR	mg/kg	0.38						
8081	HEPTACHLOR EPOXIDE	mg/kg							
8081	HEXACHLOROBENZENE	mg/kg	1.2						
8081	METHOXYCHLOR	mg/kg							
8081	TOXAPHENE	mg/kg							
8081/8082	DECACHLOROBIPHENYL	% Rec							
8081/8082	TETRACHLORO-M-XYLENE	% Rec							
8082	PCB 1016	mg/kg							
8082	PCB 1221	mg/kg							
8082	PCB 1232	mg/kg							
8082	PCB 1242	mg/kg							
8082	PCB 1248	mg/kg							
8082	PCB 1254	mg/kg							
8082	PCB 1260	mg/kg							
8260C	ACETONE	mg/kg	0.05	0.012	J		J	13	6/27/2017
8260C	ACRYLONITRILE	mg/kg		<0.0105					6/27/2017
8260C	BENZENE	mg/kg	0.06	0.00158					6/27/2017
8260C	BROMOBENZENE	mg/kg		<0.00105					6/27/2017
8260C	BROMODICHLOROMETHANE	mg/kg		<0.00105					6/27/2017
8260C	BROMOFORM	mg/kg		<0.00105					6/27/2017
8260C	BROMOMETHANE	mg/kg		<0.00524					6/27/2017
8260C	N-BUTYLBENZENE	mg/kg	12	<0.00105					6/27/2017
8260C	SEC-BUTYLBENZENE	mg/kg	11	<0.00105					6/27/2017
8260C	TERT-BUTYLBENZENE	mg/kg	5.9	<0.00105					6/27/2017

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Request to Import/Reuse Fill or Soil

Former Sperry Remington Site - North Portion
Elmira, New York

Account: REMCONWPA									
Lab Sample ID			NYSDEC DER10 App 5 Constituent Levels for Imported Fill or Soil Restricted Residential Use May	L916338-07					
Client Sample ID				BREWERS_PIT_7					
Date Collected				06/14/2017					
8260C	CARBON TETRACHLORIDE	mg/kg	0.76	<0.00105					6/27/2017
8260C	CHLOROBENZENE	mg/kg	1.1	<0.00105					6/27/2017
8260C	CHLORODIBROMOMETHANE	mg/kg		<0.00105					6/27/2017
8260C	CHLOROETHANE	mg/kg		<0.00524					6/27/2017
8260C	CHLOROFORM	mg/kg	0.37	<0.00524					6/27/2017
8260C	CHLOROMETHANE	mg/kg		<0.00262					6/27/2017
8260C	2-CHLOROTOLUENE	mg/kg		<0.00105					6/27/2017
8260C	4-CHLOROTOLUENE	mg/kg		<0.00105					6/27/2017
8260C	1,2-DIBROMO-3-CHLOROPROPANE	mg/kg		<0.00524					6/27/2017
8260C	1,2-DIBROMOETHANE	mg/kg		<0.00105					6/27/2017
8260C	DIBROMOMETHANE	mg/kg		<0.00105					6/27/2017
8260C	1,2-DICHLOROBENZENE	mg/kg	1.1	<0.00105					6/27/2017
8260C	1,3-DICHLOROBENZENE	mg/kg	2.4	<0.00105					6/27/2017
8260C	1,4-DICHLOROBENZENE	mg/kg	1.8	<0.00105					6/27/2017
8260C	DICHLORODIFLUOROMETHANE	mg/kg		<0.00524					6/27/2017
8260C	1,1-DICHLOROETHANE	mg/kg	0.27	<0.00105					6/27/2017
8260C	1,2-DICHLOROETHANE	mg/kg	0.02	<0.00105					6/27/2017
8260C	1,1-DICHLOROETHENE	mg/kg	0.33	<0.00105					6/27/2017
8260C	CIS-1,2-DICHLOROETHENE	mg/kg	0.25	<0.00105	J4				6/27/2017
8260C	TRANS-1,2-DICHLOROETHENE	mg/kg	0.19	<0.00105	J4				6/27/2017
8260C	1,2-DICHLOROPROPANE	mg/kg		<0.00105					6/27/2017
8260C	1,1-DICHLOROPROPENE	mg/kg		<0.00105					6/27/2017
8260C	1,3-DICHLOROPROPANE	mg/kg		<0.00105					6/27/2017
8260C	CIS-1,3-DICHLOROPROPENE	mg/kg		<0.00105					6/27/2017
8260C	TRANS-1,3-DICHLOROPROPENE	mg/kg		<0.00105					6/27/2017
8260C	2,2-DICHLOROPROPANE	mg/kg		<0.00105					6/27/2017
8260C	DI-ISOPROPYL ETHER	mg/kg		<0.00105					6/27/2017
8260C	ETHYLBENZENE	mg/kg	1	<0.00105					6/27/2017
8260C	HEXACHLORO-1,3-BUTADIENE	mg/kg		<0.00105					6/27/2017
8260C	ISOPROPYLBENZENE	mg/kg		<0.00105					6/27/2017
8260C	P-ISOPROPYLTOLUENE	mg/kg		<0.00105					6/27/2017
8260C	2-BUTANONE (MEK)	mg/kg	0.12	<0.0105	J0		UJ	9	6/27/2017
8260C	METHYLENE CHLORIDE	mg/kg	0.05	<0.00524	UJ				6/27/2017
8260C	4-METHYL-2-PENTANONE (MIBK)	mg/kg		<0.0105					6/27/2017
8260C	METHYL TERT-BUTYL ETHER	mg/kg	0.93	<0.00105					6/27/2017
8260C	NAPHTHALENE	mg/kg	12	<0.00524					6/27/2017
8260C	N-PROPYLBENZENE	mg/kg	3.9	<0.00105					6/27/2017
8260C	STYRENE	mg/kg		<0.00105					6/27/2017
8260C	1,1,1,2-TETRACHLOROETHANE	mg/kg		<0.00105					6/27/2017
8260C	1,1,2,2-TETRACHLOROETHANE	mg/kg		<0.00105					6/27/2017
8260C	1,1,2-TRICHLOROTRIFLUOROETHANE	mg/kg		<0.00105					6/27/2017
8260C	TETRACHLOROETHENE	mg/kg	1.3	<0.00105					6/27/2017
8260C	TOLUENE	mg/kg	0.7	0.00257	J		J	13	6/27/2017
8260C	1,2,3-TRICHLOROBENZENE	mg/kg		<0.00105					6/27/2017

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Request to Import/Reuse Fill or Soil

Former Sperry Remington Site - North Portion
Elmira, New York

Account: REMCONWPA									
Lab Sample ID			NYSDEC DER10 App 5 Constituent Levels for Imported Fill or Soil Restricted Residential Use May	L916338-07					
Client Sample ID				BREWERS_PIT_7					
Date Collected				06/14/2017					
8260C	1,2,4-TRICHLOROBENZENE	mg/kg		<0.00105					6/27/2017
8260C	1,1,1-TRICHLOROETHANE	mg/kg	0.68	<0.00105					6/27/2017
8260C	1,1,2-TRICHLOROETHANE	mg/kg		<0.00105					6/27/2017
8260C	TRICHLOROETHENE	mg/kg	0.47	<0.00105					6/27/2017
8260C	TRICHLOROFLUOROMETHANE	mg/kg		<0.00524					6/27/2017
8260C	1,2,3-TRICHLOROPROPANE	mg/kg		<0.00262					6/27/2017
8260C	1,2,4-TRIMETHYLBENZENE	mg/kg	3.6	0.000434	J		J	13	6/27/2017
8260C	1,2,3-TRIMETHYLBENZENE	mg/kg		<0.00105					6/27/2017
8260C	VINYL CHLORIDE	mg/kg	0.02	<0.00105					6/27/2017
8260C	1,3,5-TRIMETHYLBENZENE	mg/kg	8.4	0.000299	J		J	13	6/27/2017
8260C	XYLENES, TOTAL	mg/kg	1.6	0.00193	J				6/27/2017
8260C	TOLUENE-D8	% Rec		104			J	13	6/27/2017
8260C	DIBROMOFLUOROMETHANE	% Rec		125					6/27/2017
8260C	4-BROMOFLUOROBENZENE	% Rec		93.4					6/27/2017
8270D	ACENAPHTHENE	mg/kg	98	<0.0346					6/27/2017
8270D	ACENAPHTHYLENE	mg/kg	100	<0.0346					6/27/2017
8270D	ANTHRACENE	mg/kg	100	<0.0346					6/27/2017
8270D	BENZIDINE	mg/kg		<0.349	J4				6/27/2017
8270D	BENZO(A)ANTHRACENE	mg/kg	1	<0.0346					6/27/2017
8270D	BENZO(B)FLUORANTHENE	mg/kg	1	<0.0346					6/27/2017
8270D	BENZO(K)FLUORANTHENE	mg/kg	1.7	<0.0346					6/27/2017
8270D	BENZO(G,H,I)PERYLENE	mg/kg	100	<0.0346					6/27/2017
8270D	BENZO(A)PYRENE	mg/kg	1	<0.0346					6/27/2017
8270D	BIS(2-CHLORETHOXY)METHANE	mg/kg		<0.349					6/27/2017
8270D	BIS(2-CHLOROETHYL)ETHER	mg/kg		<0.349					6/27/2017
8270D	BIS(2-CHLOROISOPROPYL)ETHER	mg/kg		<0.349					6/27/2017
8270D	4-BROMOPHENYL-PHENYLETHER	mg/kg		<0.349					6/27/2017
8270D	2-CHLORONAPHTHALENE	mg/kg		<0.0346					6/27/2017
8270D	4-CHLOROPHENYL-PHENYLETHER	mg/kg		<0.349					6/27/2017
8270D	CHRYSENE	mg/kg	1	<0.0346					6/27/2017
8270D	DIBENZ(A,H)ANTHRACENE	mg/kg	0.33	<0.0346					6/27/2017
8270D	3,3-DICHLOROBENZIDINE	mg/kg		<0.349	J4				6/27/2017
8270D	2,4-DINITROTOLUENE	mg/kg		<0.349					6/27/2017
8270D	2,6-DINITROTOLUENE	mg/kg		<0.349					6/27/2017
8270D	FLUORANTHENE	mg/kg	100	<0.0346					6/27/2017
8270D	FLUORENE	mg/kg	100	<0.0346					6/27/2017
8270D	HEXACHLOROBENZENE	mg/kg	1.2	<0.349					6/27/2017
8270D	HEXACHLORO-1,3-BUTADIENE	mg/kg		<0.349					6/27/2017
8270D	HEXACHLOROCYCLOPENTADIENE	mg/kg		<0.349					6/27/2017
8270D	HEXACHLOROETHANE	mg/kg		<0.349					6/27/2017
8270D	INDENO(1,2,3-CD)PYRENE	mg/kg	0.5	<0.0346					6/27/2017
8270D	ISOPHORONE	mg/kg		<0.349					6/27/2017
8270D	NAPHTHALENE	mg/kg	12	<0.0346					6/27/2017
8270D	NITROBENZENE	mg/kg		<0.349					6/27/2017

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Former Sperry Remington Site - North Portion
Elmira, New York

Account: REMCONWPA									
Lab Sample ID			NYSDEC DER10 App 5 Constituent Levels for Imported Fill or Soil Restricted Residential Use May	L916338-07					
Client Sample ID				BREWERS_PIT_7					
Date Collected				06/14/2017					
8270D	N-NITROSODIMETHYLAMINE	mg/kg		<0.349					6/27/2017
8270D	N-NITROSODIPHENYLAMINE	mg/kg		<0.349					6/27/2017
8270D	N-NITROSODI-N-PROPYLAMINE	mg/kg		<0.349					6/27/2017
8270D	PHENANTHRENE	mg/kg	100	<0.0346					6/27/2017
8270D	BENZYLBUTYL PHTHALATE	mg/kg		<0.349					6/27/2017
8270D	BIS(2-ETHYLHEXYL)PHTHALATE	mg/kg		<0.349					6/27/2017
8270D	DI-N-BUTYL PHTHALATE	mg/kg		<0.349					6/27/2017
8270D	DIETHYL PHTHALATE	mg/kg		<0.349					6/27/2017
8270D	DIMETHYL PHTHALATE	mg/kg		<0.349					6/27/2017
8270D	DI-N-OCTYL PHTHALATE	mg/kg		<0.349					6/27/2017
8270D	PYRENE	mg/kg	100	<0.0346					6/27/2017
8270D	1,2,4-TRICHLOROBENZENE	mg/kg		<0.349					6/27/2017
8270D	4-CHLORO-3-METHYLPHENOL	mg/kg		<0.349					6/27/2017
8270D	2-CHLOROPHENOL	mg/kg		<0.349					6/27/2017
8270D	2,4-DICHLOROPHENOL	mg/kg		<0.349					6/27/2017
8270D	2,4-DIMETHYLPHENOL	mg/kg		<0.349					6/27/2017
8270D	4,6-DINITRO-2-METHYLPHENOL	mg/kg		<0.349					6/27/2017
8270D	2,4-DINITROPHENOL	mg/kg		<0.349	J3				6/27/2017
8270D	2-NITROPHENOL	mg/kg		<0.349					6/27/2017
8270D	4-NITROPHENOL	mg/kg		<0.349					6/27/2017
8270D	PENTACHLOROPHENOL	mg/kg	0.8	<0.349					6/27/2017
8270D	PHENOL	mg/kg	0.33	<0.349					6/27/2017
8270D	2,4,6-TRICHLOROPHENOL	mg/kg		<0.349					6/27/2017

Qualifiers:J: The identification of the analyte is acceptable; the reported value is an esᵵpresent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

Reason	Description
1	Preservation requirement not met
2	Analysis holding time exceeded
3	Blank contamination (i.e., method, trip,
4	Matrix spike/matrix spike duplicate
5	LCS recovery outside limits
6	Surrogate recovery outside limits
7	Field Duplicate RPD exceeded
8	Serial dilution percent difference
9	Calibration criteria not met
10	Linear range exceeded
11	Internal standard criteria not met
12	Lab duplicates RPD exceeded
13	Other

RPD-relative

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Request to Import/Reuse Fill or Soil

Former Sperry Remington Site - North Portion
Elmira, New York

Account: REMCONWPA									
Lab Sample ID			NYSDEC DER10 App 5 Constituent Levels for Imported Fill or Soil Restricted Residential Use May	L917680-01					
Client Sample ID				BREWERS_PIT_1					
Date Collected				06/14/2017					
Method	Analyte	Units		Result	Qualifier	Valdiation result	Validation qualifier	Reason code	Validation date
2540 G-2011	TOTAL SOLIDS	%		94.7					6/27/2017
3060A/7196A	CHROMIUM,TRIVALENT	mg/kg	19	<2.11					6/27/2017
Calculated	CHROMIUM,HEXAVALENT	mg/kg	180	7.11					6/27/2017
6010B	ARSENIC	mg/kg	16	2.38					6/27/2017
6010B	BARIUM	mg/kg	400	47.4					6/27/2017
6010B	BERYLLIUM	mg/kg	47	0.273					6/27/2017
6010B	CADMIUM	mg/kg	4.3	<0.528					6/27/2017
6010B	COPPER	mg/kg	270	20.3					6/27/2017
6010B	LEAD	mg/kg	400	8.70					6/27/2017
6010B	MANGANESE	mg/kg	2000	344					6/27/2017
6010B	NICKEL	mg/kg	130	13.2					6/27/2017
6010B	SILVER	mg/kg	8.3	<1.06					6/27/2017
6010B	ZINC	mg/kg	2480	62.4					6/27/2017
7471A	MERCURY	mg/kg	0.73	0.00723	J		J	13	6/27/2017
9012B	CYANIDE	mg/kg	27	<0.264					6/27/2017
Qualifiers:J: The identification of the analyte is acceptable; the reported value is an estimate.									

Reason Code	**Description**
1	Preservation requirement not met
2	Analysis holding time exceeded
3	Blank contamination (i.e., method, trip,
4	Matrix spike/matrix spike duplicate
5	LCS recovery outside limits
6	Surrogate recovery outside limits
7	Field Duplicate RPD exceeded
8	Serial dilution percent difference
9	Calibration criteria not met
10	Linear range exceeded
11	Internal standard criteria not met
12	Lab duplicates RPD exceeded
13	Other

RPD-relative percent difference

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Request to Import/Reuse Fill or Soil

Former Sperry Remington Site - North Portion
Elmira, New York

Account: REMCONWPA									
Lab Sample ID			NYSDEC DER10 App 5 Constituent Levels for Imported Fill or Soil Restricted Residential Use May	L917680-02					
Client Sample ID				BREWERS_PIT_2					
Date Collected				06/14/2017					
Method	Analyte	Units		Result	Qualifier	Valdiation result	Validation qualifier	Reason code	Validation date
2540 G-2011	TOTAL SOLIDS	%		93.4					6/27/2017
3060A/7196A	CHROMIUM,TRIVALENT	mg/kg	19	<2.14					6/27/2017
Calculated	CHROMIUM,HEXAVALENT	mg/kg	180	8.16					6/27/2017
6010B	ARSENIC	mg/kg	16	1.74	J		J	13	6/27/2017
6010B	BARIUM	mg/kg	400	52.7					6/27/2017
6010B	BERYLLIUM	mg/kg	47	0.268					6/27/2017
6010B	CADMIUM	mg/kg	4.3	<0.535					6/27/2017
6010B	COPPER	mg/kg	270	23.7					6/27/2017
6010B	LEAD	mg/kg	400	7.22					6/27/2017
6010B	MANGANESE	mg/kg	2000	359					6/27/2017
6010B	NICKEL	mg/kg	130	15.6					6/27/2017
6010B	SILVER	mg/kg	8.3	<1.07					6/27/2017
6010B	ZINC	mg/kg	2480	64.3					6/27/2017
7471A	MERCURY	mg/kg	0.73	0.00672	J		J	13	6/27/2017
9012B	CYANIDE	mg/kg	27	<0.268					6/27/2017
Qualifiers:J: The identification of the analyte is acceptable; the reported value is an estimate.									

Reason Code	**Description**
1	Preservation requirement not met
2	Analysis holding time exceeded
3	Blank contamination (i.e., method, trip,
4	Matrix spike/matrix spike duplicate
5	LCS recovery outside limits
6	Surrogate recovery outside limits
7	Field Duplicate RPD exceeded
8	Serial dilution percent difference
9	Calibration criteria not met
10	Linear range exceeded
11	Internal standard criteria not met
12	Lab duplicates RPD exceeded
13	Other

RPD-relative percent difference

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Request to Import/Reuse Fill or Soil

Former Sperry Remington Site - North Portion
Elmira, New York

Account: REMCONWPA									
Lab Sample ID			NYSDEC DER10 App 5 Constituent Levels for Imported Fill or Soil Restricted Residential Use May	L917680-03					
Client Sample ID				BREWERS_PIT_3					
Date Collected				06/14/2017					
Method	Analyte	Units		Result	Qualifier	Valdiation result	Validation qualifier	Reason code	Validation date
2540 G-2011	TOTAL SOLIDS	%		95.2					6/27/2017
3060A/7196A	CHROMIUM,TRIVALENT	mg/kg	19	<2.1					6/27/2017
Calculated	CHROMIUM,HEXAVALENT	mg/kg	180	6.46					6/27/2017
6010B	ARSENIC	mg/kg	16	0.927	J		J	13	6/27/2017
6010B	BARIUM	mg/kg	400	37.3					6/27/2017
6010B	BERYLLIUM	mg/kg	47	0.210	J		J	13	6/27/2017
6010B	CADMIUM	mg/kg	4.3	<0.525					6/27/2017
6010B	COPPER	mg/kg	270	15.5					6/27/2017
6010B	LEAD	mg/kg	400	5.20					6/27/2017
6010B	MANGANESE	mg/kg	2000	237					6/27/2017
6010B	NICKEL	mg/kg	130	9.99					6/27/2017
6010B	SILVER	mg/kg	8.3	<1.05					6/27/2017
6010B	ZINC	mg/kg	2480	45.5					6/27/2017
7471A	MERCURY	mg/kg	0.73	0.00543	J		J	13	6/27/2017
9012B	CYANIDE	mg/kg	27	<0.263					6/27/2017
Qualifiers:J: The identification of the analyte is acceptable; the reported value is an estimate.									

Reason Code	**Description**
1	Preservation requirement not met
2	Analysis holding time exceeded
3	Blank contamination (i.e., method, trip,
4	Matrix spike/matrix spike duplicate
5	LCS recovery outside limits
6	Surrogate recovery outside limits
7	Field Duplicate RPD exceeded
8	Serial dilution percent difference
9	Calibration criteria not met
10	Linear range exceeded
11	Internal standard criteria not met
12	Lab duplicates RPD exceeded
13	Other

RPD-relative percent difference

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Request to Import/Reuse Fill or Soil

Former Sperry Remington Site - North Portion
Elmira, New York

Account: REMCONWPA									
Lab Sample ID			NYSDEC DER10 App 5 Constituent Levels for Imported Fill or Soil Restricted Residential Use May	L917680-04					
Client Sample ID				BREWERS_PIT_4					
Date Collected				06/14/2017					
Method	Analyte	Units		Result	Qualifier	Valdiation result	Validation qualifier	Reason code	Validation date
2540 G-2011	TOTAL SOLIDS	%		95.8					6/27/2017
3060A/7196A	CHROMIUM,TRIVALENT	mg/kg	19	<2.09					6/27/2017
Calculated	CHROMIUM,HEXAVALENT	mg/kg	180	7.74					6/27/2017
6010B	ARSENIC	mg/kg	16	2.26					6/27/2017
6010B	BARIUM	mg/kg	400	53.3					6/27/2017
6010B	BERYLLIUM	mg/kg	47	0.279					6/27/2017
6010B	CADMIUM	mg/kg	4.3	<0.522					6/27/2017
6010B	COPPER	mg/kg	270	20.0					6/27/2017
6010B	LEAD	mg/kg	400	7.96					6/27/2017
6010B	MANGANESE	mg/kg	2000	339					6/27/2017
6010B	NICKEL	mg/kg	130	14.6					6/27/2017
6010B	SILVER	mg/kg	8.3	<1.04					6/27/2017
6010B	ZINC	mg/kg	2480	65.4					6/27/2017
7471A	MERCURY	mg/kg	0.73	0.00793	J		J	13	6/27/2017
9012B	CYANIDE	mg/kg	27	<0.261					6/27/2017
Qualifiers:J: The identification of the analyte is acceptable; the reported value is an estimate.									

Reason Code	**Description**
1	Preservation requirement not met
2	Analysis holding time exceeded
3	Blank contamination (i.e., method, trip,
4	Matrix spike/matrix spike duplicate
5	LCS recovery outside limits
6	Surrogate recovery outside limits
7	Field Duplicate RPD exceeded
8	Serial dilution percent difference
9	Calibration criteria not met
10	Linear range exceeded
11	Internal standard criteria not met
12	Lab duplicates RPD exceeded
13	Other

RPD-relative percent difference

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Request to Import/Reuse Fill or Soil

Former Sperry Remington Site - North Portion
Elmira, New York

Account: REMCONWPA									
Lab Sample ID			NYSDEC DER10 App 5 Constituent Levels for Imported Fill or Soil Restricted Residential Use May	L917680-05					
Client Sample ID				BREWERS_PIT_5					
Date Collected				06/14/2017					
Method	Analyte	Units		Result	Qualifier	Qualifier	Valdiation result	Validation qualifier	Reason code
2540 G-2011	TOTAL SOLIDS	%		94.4					6/27/2017
3060A/7196A	CHROMIUM,TRIVALENT	mg/kg	19	<2.12					6/27/2017
Calculated	CHROMIUM,HEXAVALENT	mg/kg	180	7.66					6/27/2017
6010B	ARSENIC	mg/kg	16	2.69					6/27/2017
6010B	BARIUM	mg/kg	400	47.3					6/27/2017
6010B	BERYLLIUM	mg/kg	47	0.281					6/27/2017
6010B	CADMIUM	mg/kg	4.3	<0.530					6/27/2017
6010B	COPPER	mg/kg	270	19.0					6/27/2017
6010B	LEAD	mg/kg	400	8.42					6/27/2017
6010B	MANGANESE	mg/kg	2000	409					6/27/2017
6010B	NICKEL	mg/kg	130	13.3					6/27/2017
6010B	SILVER	mg/kg	8.3	<1.06					6/27/2017
6010B	ZINC	mg/kg	2480	55.1					6/27/2017
7471A	MERCURY	mg/kg	0.73	0.0102	J		J	13	6/27/2017
9012B	CYANIDE	mg/kg	27	<0.265					6/27/2017
Qualifiers:J: The identification of the analyte is acceptable; the reported value is an estimate.									

Reason Code	**Description**
1	Preservation requirement not met
2	Analysis holding time exceeded
3	Blank contamination (i.e., method, trip,
4	Matrix spike/matrix spike duplicate
5	LCS recovery outside limits
6	Surrogate recovery outside limits
7	Field Duplicate RPD exceeded
8	Serial dilution percent difference
9	Calibration criteria not met
10	Linear range exceeded
11	Internal standard criteria not met
12	Lab duplicates RPD exceeded
13	Other

RPD-relative percent difference

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Request to Import/Reuse Fill or Soil

Former Sperry Remington Site - North Portion
Elmira, New York

Account: REMCONWPA									
Lab Sample ID			NYSDEC DER10 App 5 Constituent Levels for Imported Fill or Soil Restricted Residential Use May	L917680-06					
Client Sample ID				BREWERS_PIT_6					
Date Collected				06/14/2017					
Method	Analyte	Units		Validation date	Qualifier	Valdiation result	Validation qualifier	Reason code	Validation date
2540 G-2011	TOTAL SOLIDS	%		96					6/27/2017
3060A/7196A	CHROMIUM,TRIVALENT	mg/kg	19	<2.08					6/27/2017
Calculated	CHROMIUM,HEXAVALENT	mg/kg	180	7.17					6/27/2017
6010B	ARSENIC	mg/kg	16	2.76					6/27/2017
6010B	BARIUM	mg/kg	400	47.7					6/27/2017
6010B	BERYLLIUM	mg/kg	47	0.248					6/27/2017
6010B	CADMIUM	mg/kg	4.3	0.0816	J		J	13	6/27/2017
6010B	COPPER	mg/kg	270	20.3					6/27/2017
6010B	LEAD	mg/kg	400	6.85					6/27/2017
6010B	MANGANESE	mg/kg	2000	401					6/27/2017
6010B	NICKEL	mg/kg	130	13.3					6/27/2017
6010B	SILVER	mg/kg	8.3	<1.04					6/27/2017
6010B	ZINC	mg/kg	2480	62.8					6/27/2017
7471A	MERCURY	mg/kg	0.73	0.00694	J		J	13	6/27/2017
9012B	CYANIDE	mg/kg	27	<0.260					6/27/2017
Qualifiers:J: The identification of the analyte is acceptable; the reported value is an estimate.									

Reason Code	**Description**
1	Preservation requirement not met
2	Analysis holding time exceeded
3	Blank contamination (i.e., method, trip,
4	Matrix spike/matrix spike duplicate
5	LCS recovery outside limits
6	Surrogate recovery outside limits
7	Field Duplicate RPD exceeded
8	Serial dilution percent difference
9	Calibration criteria not met
10	Linear range exceeded
11	Internal standard criteria not met
12	Lab duplicates RPD exceeded
13	Other

RPD-relative percent difference

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Request to Import/Reuse Fill or Soil

Former Sperry Remington Site - North Portion
Elmira, New York

Account: REMCONWPA									
Lab Sample ID			NYSDEC DER10 App 5 Constituent Levels for Imported Fill or Soil Restricted Residential Use May	L917680-07					
Client Sample ID				BREWERS_PIT_7					
Date Collected				06/14/2017					
Method	Analyte	Units		Result	Qualifier	Valdiation result	Validation qualifier	Reason code	Validation date
2540 G-2011	TOTAL SOLIDS	%		95.5					6/27/2017
3060A/7196A	CHROMIUM,TRIVALENT	mg/kg	19	<2.09					6/27/2017
Calculated	CHROMIUM,HEXAVALENT	mg/kg	180	7.32					6/27/2017
6010B	ARSENIC	mg/kg	16	3.96					6/27/2017
6010B	BARIUM	mg/kg	400	44.6					6/27/2017
6010B	BERYLLIUM	mg/kg	47	0.218					6/27/2017
6010B	CADMIUM	mg/kg	4.3	<0.524					6/27/2017
6010B	COPPER	mg/kg	270	16.5					6/27/2017
6010B	LEAD	mg/kg	400	9.15					6/27/2017
6010B	MANGANESE	mg/kg	2000	327					6/27/2017
6010B	NICKEL	mg/kg	130	13.1					6/27/2017
6010B	SILVER	mg/kg	8.3	<1.05					6/27/2017
6010B	ZINC	mg/kg	2480	55.7					6/27/2017
7471A	MERCURY	mg/kg	0.73	0.00569	J		J	13	6/27/2017
9012B	CYANIDE	mg/kg	27	0.0497	J		J	13	6/27/2017
Qualifiers:J: The identification of the analyte is acceptable; the reported value is an estimate.									

Reason Code	**Description**
1	Preservation requirement not met
2	Analysis holding time exceeded
3	Blank contamination (i.e., method, trip,
4	Matrix spike/matrix spike duplicate
5	LCS recovery outside limits
6	Surrogate recovery outside limits
7	Field Duplicate RPD exceeded
8	Serial dilution percent difference
9	Calibration criteria not met
10	Linear range exceeded
11	Internal standard criteria not met
12	Lab duplicates RPD exceeded
13	Other

RPD-relative percent difference

CME Associates, Inc.

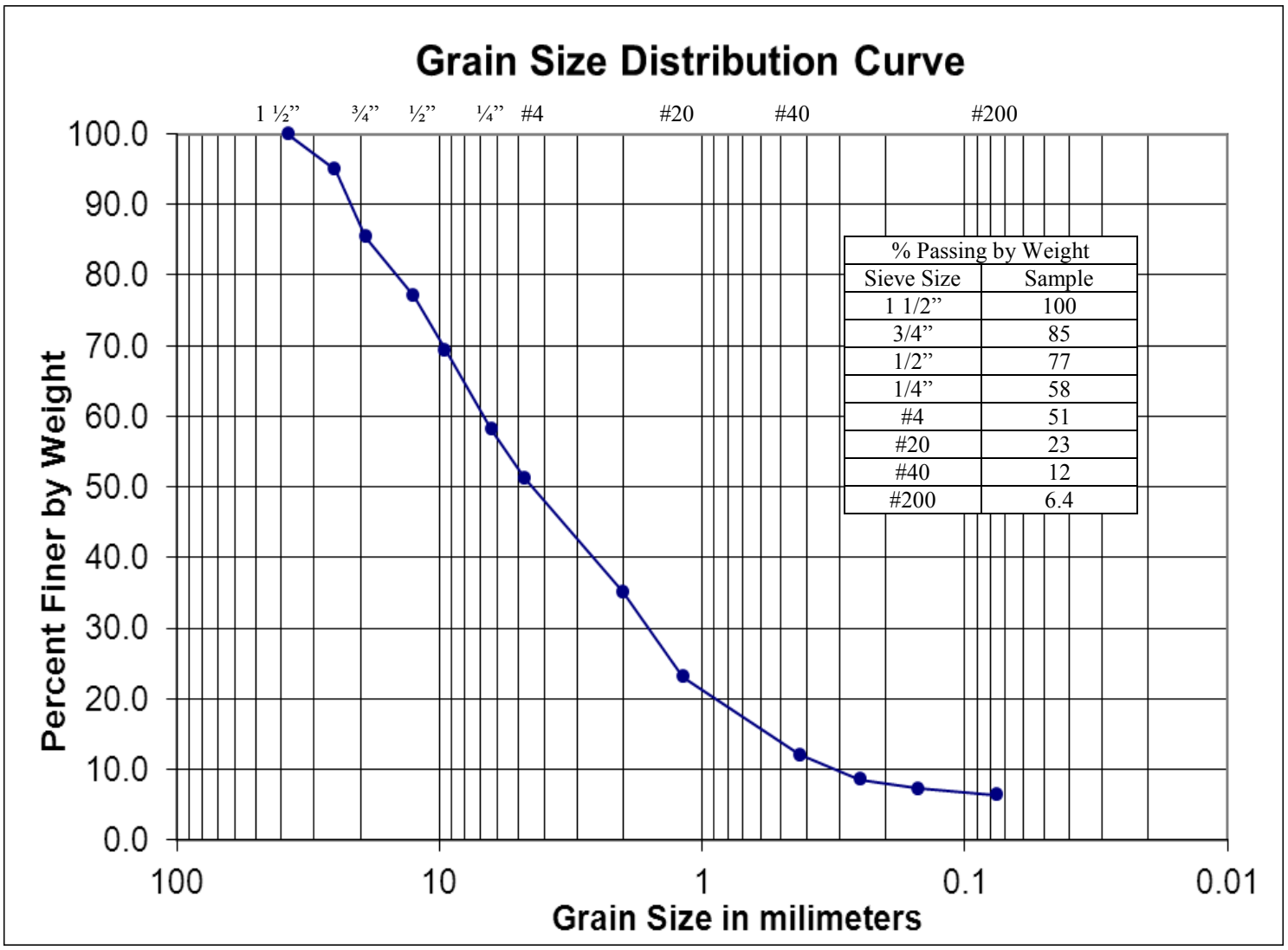
701B Chemung Street
Horseheads, New York 14845
(607) 739-4033
(607) 739-4085 (Fax)

www.cmeassociates.com

~Preliminary Report~

LABORATORY TEST REPORT

CLIENT: Edger Enterprises **PROJECT:** 2016 Laboratory Testing
REPORT NO.: 29729L-01-0716 **SAMPLE NO.:** EL – 2951 **DATE DELIVERED:** 07/22/2016
SAMPLE LOCATION: By Client. **SAMPLE SOURCE:** Brewer pit.
SOIL CLASSIFICATION: Brown cmf GRAVEL and cmf SAND, trace SILT



% Passing by Weight	
Sieve Size	Sample
1 1/2"	100
3/4"	85
1/2"	77
1/4"	58
#4	51
#20	23
#40	12
#200	6.4

No grain size requirements were provided for this material.

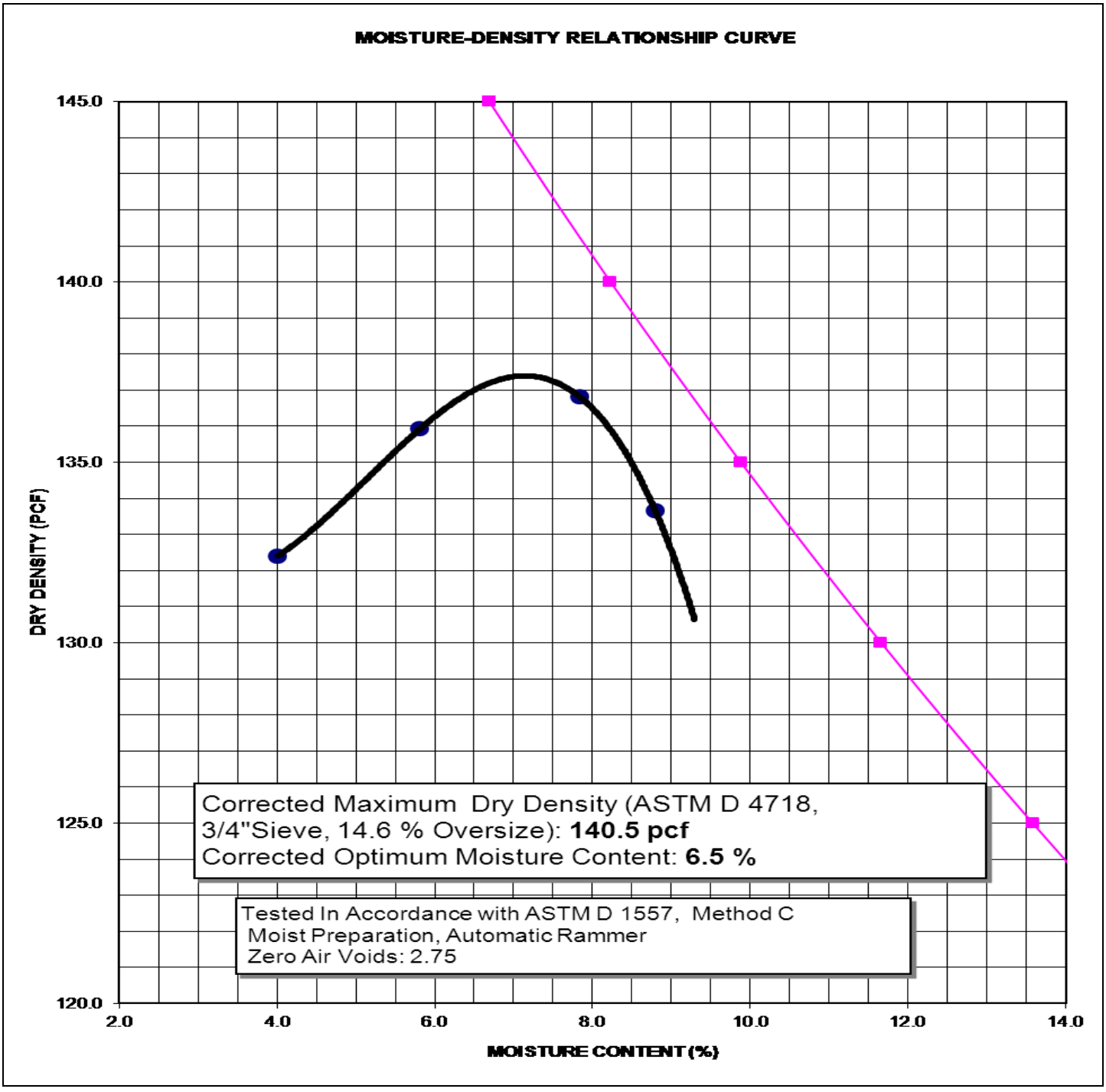
LABORATORY TEST REPORT

CLIENT: Edger Enterprises **PROJECT:** 2016 Laboratory Testing

REPORT NO.: 29729L-01-0716 **SAMPLE NO.:** EL – 2951 **DATE DELIVERED:** 07/22/2016

SAMPLE LOCATION: By Client. **SAMPLE SOURCE:** Brewer pit.

SOIL CLASSIFICATION: Brown cmf GRAVEL and cmf SAND, trace SILT



ANALYTICAL REPORT

June 20, 2017

Remedial Construction Services, L.P.

Sample Delivery Group:	L916338
Samples Received:	06/15/2017
Project Number:	23925
Description:	Elmira, NY

Report To:

Mr. John Geary
950 West Valley Rd.
Suite 2802
Wayne, PA 19087

Entire Report Reviewed By:

T. Alan Harvill
Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



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BREWERS_PIT_1 L916338-01 Solid

Collected by: Kyle Snyder
Collected date/time: 06/14/17 00:00
Received date/time: 06/15/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG990357	1	06/17/17 12:08	06/17/17 12:20	KDW
Volatile Organic Compounds (GC/MS) by Method 8260C	WG990989	1	06/14/17 00:00	06/20/17 13:08	JAH
Pesticides (GC) by Method 8081	WG990183	1	06/17/17 20:17	06/19/17 15:43	VKS
Polychlorinated Biphenyls (GC) by Method 8082	WG990183	1	06/17/17 20:17	06/19/17 13:19	JNS
Semi Volatile Organic Compounds (GC/MS) by Method 8270D	WG990189	1	06/16/17 23:24	06/20/17 10:37	ADF

BREWERS_PIT_2 L916338-02 Solid

Collected by: Kyle Snyder
Collected date/time: 06/14/17 00:00
Received date/time: 06/15/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG990405	1	06/19/17 08:35	06/19/17 08:55	KDW
Volatile Organic Compounds (GC/MS) by Method 8260C	WG990989	1	06/14/17 00:00	06/20/17 13:30	JAH
Pesticides (GC) by Method 8081	WG990183	1	06/17/17 20:17	06/19/17 15:55	VKS
Polychlorinated Biphenyls (GC) by Method 8082	WG990183	1	06/17/17 20:17	06/19/17 13:33	JNS
Semi Volatile Organic Compounds (GC/MS) by Method 8270D	WG990189	1	06/16/17 23:24	06/20/17 11:03	ADF

BREWERS_PIT_3 L916338-03 Solid

Collected by: Kyle Snyder
Collected date/time: 06/14/17 00:00
Received date/time: 06/15/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG990405	1	06/19/17 08:35	06/19/17 08:55	KDW
Volatile Organic Compounds (GC/MS) by Method 8260C	WG990989	1	06/14/17 00:00	06/20/17 13:53	JAH
Semi Volatile Organic Compounds (GC/MS) by Method 8270D	WG990189	1	06/16/17 23:24	06/20/17 11:28	ADF

BREWERS_PIT_4 L916338-04 Solid

Collected by: Kyle Snyder
Collected date/time: 06/14/17 00:00
Received date/time: 06/15/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG990405	1	06/19/17 08:35	06/19/17 08:55	KDW
Volatile Organic Compounds (GC/MS) by Method 8260C	WG990989	1	06/14/17 00:00	06/20/17 14:16	JAH
Semi Volatile Organic Compounds (GC/MS) by Method 8270D	WG990189	1	06/16/17 23:24	06/20/17 11:54	ADF

BREWERS_PIT_5 L916338-05 Solid

Collected by: Kyle Snyder
Collected date/time: 06/14/17 00:00
Received date/time: 06/15/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG990405	1	06/19/17 08:35	06/19/17 08:55	KDW
Volatile Organic Compounds (GC/MS) by Method 8260C	WG990989	1	06/14/17 00:00	06/20/17 14:38	JAH
Semi Volatile Organic Compounds (GC/MS) by Method 8270D	WG990189	1	06/16/17 23:24	06/20/17 12:19	ADF

BREWERS_PIT_6 L916338-06 Solid

Collected by: Kyle Snyder
Collected date/time: 06/14/17 00:00
Received date/time: 06/15/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG990405	1	06/19/17 08:35	06/19/17 08:55	KDW
Volatile Organic Compounds (GC/MS) by Method 8260C	WG990989	1	06/14/17 00:00	06/20/17 15:01	JAH
Semi Volatile Organic Compounds (GC/MS) by Method 8270D	WG990189	1	06/16/17 23:24	06/20/17 12:45	ADF

BREWERS_PIT_7 L916338-07 Solid

Collected by: Kyle Snyder
Collected date/time: 06/14/17 00:00
Received date/time: 06/15/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG990406	1	06/19/17 10:09	06/19/17 10:23	KDW
Volatile Organic Compounds (GC/MS) by Method 8260C	WG990989	1	06/14/17 00:00	06/20/17 15:23	JAH
Semi Volatile Organic Compounds (GC/MS) by Method 8270D	WG990189	1	06/16/17 23:24	06/20/17 13:11	ADF

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. All MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



T. Alan Harvill
Technical Service Representative

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	94.7		1	06/17/2017 12:20	WG990357

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	0.0126	J	0.0106	0.0528	1	06/20/2017 13:08	WG990989
Acrylonitrile	U		0.00189	0.0106	1	06/20/2017 13:08	WG990989
Benzene	0.00142		0.000285	0.00106	1	06/20/2017 13:08	WG990989
Bromobenzene	U		0.000300	0.00106	1	06/20/2017 13:08	WG990989
Bromodichloromethane	U		0.000268	0.00106	1	06/20/2017 13:08	WG990989
Bromoform	U		0.000448	0.00106	1	06/20/2017 13:08	WG990989
Bromomethane	U		0.00142	0.00528	1	06/20/2017 13:08	WG990989
n-Butylbenzene	U		0.000273	0.00106	1	06/20/2017 13:08	WG990989
sec-Butylbenzene	U		0.000212	0.00106	1	06/20/2017 13:08	WG990989
tert-Butylbenzene	U		0.000218	0.00106	1	06/20/2017 13:08	WG990989
Carbon tetrachloride	U		0.000346	0.00106	1	06/20/2017 13:08	WG990989
Chlorobenzene	U		0.000224	0.00106	1	06/20/2017 13:08	WG990989
Chlorodibromomethane	U		0.000394	0.00106	1	06/20/2017 13:08	WG990989
Chloroethane	U		0.000999	0.00528	1	06/20/2017 13:08	WG990989
Chloroform	U		0.000242	0.00528	1	06/20/2017 13:08	WG990989
Chloromethane	U		0.000396	0.00264	1	06/20/2017 13:08	WG990989
2-Chlorotoluene	U		0.000318	0.00106	1	06/20/2017 13:08	WG990989
4-Chlorotoluene	U		0.000254	0.00106	1	06/20/2017 13:08	WG990989
1,2-Dibromo-3-Chloropropane	U		0.00111	0.00528	1	06/20/2017 13:08	WG990989
1,2-Dibromoethane	U		0.000362	0.00106	1	06/20/2017 13:08	WG990989
Dibromomethane	U		0.000404	0.00106	1	06/20/2017 13:08	WG990989
1,2-Dichlorobenzene	U		0.000322	0.00106	1	06/20/2017 13:08	WG990989
1,3-Dichlorobenzene	U		0.000252	0.00106	1	06/20/2017 13:08	WG990989
1,4-Dichlorobenzene	U		0.000239	0.00106	1	06/20/2017 13:08	WG990989
Dichlorodifluoromethane	U		0.000753	0.00528	1	06/20/2017 13:08	WG990989
1,1-Dichloroethane	U		0.000210	0.00106	1	06/20/2017 13:08	WG990989
1,2-Dichloroethane	U		0.000280	0.00106	1	06/20/2017 13:08	WG990989
1,1-Dichloroethene	U		0.000320	0.00106	1	06/20/2017 13:08	WG990989
cis-1,2-Dichloroethene	U	J4	0.000248	0.00106	1	06/20/2017 13:08	WG990989
trans-1,2-Dichloroethene	U	J4	0.000279	0.00106	1	06/20/2017 13:08	WG990989
1,2-Dichloropropane	U		0.000378	0.00106	1	06/20/2017 13:08	WG990989
1,1-Dichloropropene	U		0.000335	0.00106	1	06/20/2017 13:08	WG990989
1,3-Dichloropropane	U		0.000219	0.00106	1	06/20/2017 13:08	WG990989
cis-1,3-Dichloropropene	U		0.000277	0.00106	1	06/20/2017 13:08	WG990989
trans-1,3-Dichloropropene	U		0.000282	0.00106	1	06/20/2017 13:08	WG990989
2,2-Dichloropropane	U		0.000295	0.00106	1	06/20/2017 13:08	WG990989
Di-isopropyl ether	U		0.000262	0.00106	1	06/20/2017 13:08	WG990989
Ethylbenzene	U		0.000314	0.00106	1	06/20/2017 13:08	WG990989
Hexachloro-1,3-butadiene	U		0.000361	0.00106	1	06/20/2017 13:08	WG990989
Isopropylbenzene	U		0.000257	0.00106	1	06/20/2017 13:08	WG990989
p-Isopropyltoluene	U		0.000215	0.00106	1	06/20/2017 13:08	WG990989
2-Butanone (MEK)	U	J0	0.00494	0.0106	1	06/20/2017 13:08	WG990989
Methylene Chloride	U		0.00106	0.00528	1	06/20/2017 13:08	WG990989
4-Methyl-2-pentanone (MIBK)	U		0.00199	0.0106	1	06/20/2017 13:08	WG990989
Methyl tert-butyl ether	U		0.000224	0.00106	1	06/20/2017 13:08	WG990989
Naphthalene	U		0.00106	0.00528	1	06/20/2017 13:08	WG990989
n-Propylbenzene	U		0.000218	0.00106	1	06/20/2017 13:08	WG990989
Styrene	U		0.000247	0.00106	1	06/20/2017 13:08	WG990989
1,1,1,2-Tetrachloroethane	U		0.000279	0.00106	1	06/20/2017 13:08	WG990989
1,1,2,2-Tetrachloroethane	U		0.000386	0.00106	1	06/20/2017 13:08	WG990989

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.000386	0.00106	1	06/20/2017 13:08	WG990989
Tetrachloroethene	U		0.000292	0.00106	1	06/20/2017 13:08	WG990989
Toluene	0.00230	J	0.000458	0.00528	1	06/20/2017 13:08	WG990989
1,2,3-Trichlorobenzene	U		0.000323	0.00106	1	06/20/2017 13:08	WG990989
1,2,4-Trichlorobenzene	U		0.000410	0.00106	1	06/20/2017 13:08	WG990989
1,1,1-Trichloroethane	U		0.000302	0.00106	1	06/20/2017 13:08	WG990989
1,1,2-Trichloroethane	U		0.000293	0.00106	1	06/20/2017 13:08	WG990989
Trichloroethene	U		0.000295	0.00106	1	06/20/2017 13:08	WG990989
Trichlorofluoromethane	U		0.000404	0.00528	1	06/20/2017 13:08	WG990989
1,2,3-Trichloropropane	U		0.000783	0.00264	1	06/20/2017 13:08	WG990989
1,2,4-Trimethylbenzene	0.000479	J	0.000223	0.00106	1	06/20/2017 13:08	WG990989
1,2,3-Trimethylbenzene	U		0.000303	0.00106	1	06/20/2017 13:08	WG990989
Vinyl chloride	U		0.000307	0.00106	1	06/20/2017 13:08	WG990989
1,3,5-Trimethylbenzene	0.000312	J	0.000281	0.00106	1	06/20/2017 13:08	WG990989
Xylenes, Total	0.00184	J	0.000737	0.00317	1	06/20/2017 13:08	WG990989
(S) Toluene-d8	*102*			*80.0-120*		*06/20/2017 13:08*	WG990989
(S) Dibromofluoromethane	*122*			*74.0-131*		*06/20/2017 13:08*	WG990989
(S) 4-Bromofluorobenzene	*93.2*			*64.0-132*		*06/20/2017 13:08*	WG990989

Pesticides (GC) by Method 8081

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Aldrin	U		0.00143	0.0211	1	06/19/2017 15:43	WG990183
Alpha BHC	U		0.00144	0.0211	1	06/19/2017 15:43	WG990183
Beta BHC	U		0.00169	0.0211	1	06/19/2017 15:43	WG990183
Delta BHC	U		0.00151	0.0211	1	06/19/2017 15:43	WG990183
Gamma BHC	U		0.00153	0.0211	1	06/19/2017 15:43	WG990183
Chlordane	U		0.0412	0.211	1	06/19/2017 15:43	WG990183
4,4-DDD	U		0.00165	0.0211	1	06/19/2017 15:43	WG990183
4,4-DDE	U		0.00163	0.0211	1	06/19/2017 15:43	WG990183
4,4-DDT	U		0.00211	0.0211	1	06/19/2017 15:43	WG990183
Dieldrin	U		0.00161	0.0211	1	06/19/2017 15:43	WG990183
Endosulfan I	U		0.00157	0.0211	1	06/19/2017 15:43	WG990183
Endosulfan II	U		0.00169	0.0211	1	06/19/2017 15:43	WG990183
Endosulfan sulfate	U		0.00160	0.0211	1	06/19/2017 15:43	WG990183
Endrin	U		0.00166	0.0211	1	06/19/2017 15:43	WG990183
Endrin aldehyde	U		0.00136	0.0211	1	06/19/2017 15:43	WG990183
Endrin ketone	U		0.00174	0.0211	1	06/19/2017 15:43	WG990183
Heptachlor	U		0.00163	0.0211	1	06/19/2017 15:43	WG990183
Heptachlor epoxide	U		0.00170	0.0211	1	06/19/2017 15:43	WG990183
Hexachlorobenzene	U		0.00131	0.0211	1	06/19/2017 15:43	WG990183
Methoxychlor	U		0.00188	0.0211	1	06/19/2017 15:43	WG990183
Toxaphene	U		0.0380	0.423	1	06/19/2017 15:43	WG990183
(S) Decachlorobiphenyl	*86.6*			*10.0-148*		*06/19/2017 15:43*	WG990183
(S) Tetrachloro-m-xylene	*84.2*			*21.0-146*		*06/19/2017 15:43*	WG990183

Polychlorinated Biphenyls (GC) by Method 8082

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
PCB 1016	U		0.00370	0.0180	1	06/19/2017 13:19	WG990183
PCB 1221	U		0.00567	0.0180	1	06/19/2017 13:19	WG990183
PCB 1232	U		0.00440	0.0180	1	06/19/2017 13:19	WG990183
PCB 1242	U		0.00336	0.0180	1	06/19/2017 13:19	WG990183
PCB 1248	U		0.00333	0.0180	1	06/19/2017 13:19	WG990183
PCB 1254	U		0.00499	0.0180	1	06/19/2017 13:19	WG990183

Polychlorinated Biphenyls (GC) by Method 8082

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
PCB 1260	U		0.00522	0.0180	1	06/19/2017 13:19	WG990183
(S) Decachlorobiphenyl	*129*			*10.0-148*		*06/19/2017 13:19*	WG990183
(S) Tetrachloro-m-xylene	*96.2*			*21.0-146*		*06/19/2017 13:19*	WG990183

Semi Volatile Organic Compounds (GC/MS) by Method 8270D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	U		0.00678	0.0349	1	06/20/2017 10:37	WG990189
Acenaphthylene	U		0.00709	0.0349	1	06/20/2017 10:37	WG990189
Anthracene	U		0.00668	0.0349	1	06/20/2017 10:37	WG990189
Benzidine	U	J4	0.0673	0.352	1	06/20/2017 10:37	WG990189
Benzo(a)anthracene	U		0.00452	0.0349	1	06/20/2017 10:37	WG990189
Benzo(b)fluoranthene	U		0.00734	0.0349	1	06/20/2017 10:37	WG990189
Benzo(k)fluoranthene	U		0.00615	0.0349	1	06/20/2017 10:37	WG990189
Benzo(g,h,i)perylene	U		0.00762	0.0349	1	06/20/2017 10:37	WG990189
Benzo(a)pyrene	U		0.00579	0.0349	1	06/20/2017 10:37	WG990189
Bis(2-chlorethoxy)methane	U		0.00813	0.352	1	06/20/2017 10:37	WG990189
Bis(2-chloroethyl)ether	U		0.00946	0.352	1	06/20/2017 10:37	WG990189
Bis(2-chloroisopropyl)ether	U		0.00803	0.352	1	06/20/2017 10:37	WG990189
4-Bromophenyl-phenylether	U		0.0120	0.352	1	06/20/2017 10:37	WG990189
2-Chloronaphthalene	U		0.00675	0.0349	1	06/20/2017 10:37	WG990189
4-Chlorophenyl-phenylether	U		0.00662	0.352	1	06/20/2017 10:37	WG990189
Chrysene	U		0.00586	0.0349	1	06/20/2017 10:37	WG990189
Dibenz(a,h)anthracene	U		0.00867	0.0349	1	06/20/2017 10:37	WG990189
3,3-Dichlorobenzidine	U	J4	0.0839	0.352	1	06/20/2017 10:37	WG990189
2,4-Dinitrotoluene	U		0.00641	0.352	1	06/20/2017 10:37	WG990189
2,6-Dinitrotoluene	U		0.00778	0.352	1	06/20/2017 10:37	WG990189
Fluoranthene	U		0.00524	0.0349	1	06/20/2017 10:37	WG990189
Fluorene	U		0.00720	0.0349	1	06/20/2017 10:37	WG990189
Hexachlorobenzene	U		0.00904	0.352	1	06/20/2017 10:37	WG990189
Hexachloro-1,3-butadiene	U		0.0106	0.352	1	06/20/2017 10:37	WG990189
Hexachlorocyclopentadiene	U		0.0620	0.352	1	06/20/2017 10:37	WG990189
Hexachloroethane	U		0.0142	0.352	1	06/20/2017 10:37	WG990189
Indeno(1,2,3-cd)pyrene	U		0.00815	0.0349	1	06/20/2017 10:37	WG990189
Isophorone	U		0.00551	0.352	1	06/20/2017 10:37	WG990189
Naphthalene	U		0.00939	0.0349	1	06/20/2017 10:37	WG990189
Nitrobenzene	U		0.00734	0.352	1	06/20/2017 10:37	WG990189
n-Nitrosodimethylamine	U		0.0683	0.352	1	06/20/2017 10:37	WG990189
n-Nitrosodiphenylamine	U		0.00627	0.352	1	06/20/2017 10:37	WG990189
n-Nitrosodi-n-propylamine	U		0.00957	0.352	1	06/20/2017 10:37	WG990189
Phenanthrene	U		0.00558	0.0349	1	06/20/2017 10:37	WG990189
Benzylbutyl phthalate	U		0.0109	0.352	1	06/20/2017 10:37	WG990189
Bis(2-ethylhexyl)phthalate	U		0.0127	0.352	1	06/20/2017 10:37	WG990189
Di-n-butyl phthalate	U		0.0115	0.352	1	06/20/2017 10:37	WG990189
Diethyl phthalate	U		0.00730	0.352	1	06/20/2017 10:37	WG990189
Dimethyl phthalate	U		0.00570	0.352	1	06/20/2017 10:37	WG990189
Di-n-octyl phthalate	U		0.00958	0.352	1	06/20/2017 10:37	WG990189
Pyrene	U		0.0130	0.0349	1	06/20/2017 10:37	WG990189
1,2,4-Trichlorobenzene	U		0.00925	0.352	1	06/20/2017 10:37	WG990189
4-Chloro-3-methylphenol	U		0.00504	0.352	1	06/20/2017 10:37	WG990189
2-Chlorophenol	U		0.00878	0.352	1	06/20/2017 10:37	WG990189
2,4-Dichlorophenol	U		0.00788	0.352	1	06/20/2017 10:37	WG990189
2,4-Dimethylphenol	U		0.0498	0.352	1	06/20/2017 10:37	WG990189
4,6-Dinitro-2-methylphenol	U		0.131	0.352	1	06/20/2017 10:37	WG990189
2,4-Dinitrophenol	U	J3	0.104	0.352	1	06/20/2017 10:37	WG990189
2-Nitrophenol	U		0.0137	0.352	1	06/20/2017 10:37	WG990189

Semi Volatile Organic Compounds (GC/MS) by Method 8270D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
4-Nitrophenol	U		0.0555	0.352	1	06/20/2017 10:37	WG990189
Pentachlorophenol	U		0.0507	0.352	1	06/20/2017 10:37	WG990189
Phenol	U		0.00734	0.352	1	06/20/2017 10:37	WG990189
2,4,6-Trichlorophenol	U		0.00823	0.352	1	06/20/2017 10:37	WG990189
(S) 2-Fluorophenol	*62.6*			*20.0-120*		*06/20/2017 10:37*	WG990189
(S) Phenol-d5	*64.0*			*20.0-120*		*06/20/2017 10:37*	WG990189
(S) Nitrobenzene-d5	*59.3*			*18.0-125*		*06/20/2017 10:37*	WG990189
(S) 2-Fluorobiphenyl	*60.5*			*28.0-120*		*06/20/2017 10:37*	WG990189
(S) 2,4,6-Tribromophenol	*78.2*			*17.0-137*		*06/20/2017 10:37*	WG990189
(S) p-Terphenyl-d14	*65.8*			*13.0-131*		*06/20/2017 10:37*	WG990189

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	93.5		1	06/19/2017 08:55	WG990405

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	0.0153	J	0.0107	0.0535	1	06/20/2017 13:30	WG990989
Acrylonitrile	U		0.00192	0.0107	1	06/20/2017 13:30	WG990989
Benzene	0.00198		0.000289	0.00107	1	06/20/2017 13:30	WG990989
Bromobenzene	U		0.000304	0.00107	1	06/20/2017 13:30	WG990989
Bromodichloromethane	U		0.000272	0.00107	1	06/20/2017 13:30	WG990989
Bromoform	U		0.000454	0.00107	1	06/20/2017 13:30	WG990989
Bromomethane	U		0.00143	0.00535	1	06/20/2017 13:30	WG990989
n-Butylbenzene	U		0.000276	0.00107	1	06/20/2017 13:30	WG990989
sec-Butylbenzene	U		0.000215	0.00107	1	06/20/2017 13:30	WG990989
tert-Butylbenzene	U		0.000220	0.00107	1	06/20/2017 13:30	WG990989
Carbon tetrachloride	U		0.000351	0.00107	1	06/20/2017 13:30	WG990989
Chlorobenzene	U		0.000227	0.00107	1	06/20/2017 13:30	WG990989
Chlorodibromomethane	U		0.000399	0.00107	1	06/20/2017 13:30	WG990989
Chloroethane	U		0.00101	0.00535	1	06/20/2017 13:30	WG990989
Chloroform	U		0.000245	0.00535	1	06/20/2017 13:30	WG990989
Chloromethane	U		0.000401	0.00268	1	06/20/2017 13:30	WG990989
2-Chlorotoluene	U		0.000322	0.00107	1	06/20/2017 13:30	WG990989
4-Chlorotoluene	U		0.000257	0.00107	1	06/20/2017 13:30	WG990989
1,2-Dibromo-3-Chloropropane	U		0.00112	0.00535	1	06/20/2017 13:30	WG990989
1,2-Dibromoethane	U		0.000367	0.00107	1	06/20/2017 13:30	WG990989
Dibromomethane	U		0.000409	0.00107	1	06/20/2017 13:30	WG990989
1,2-Dichlorobenzene	U		0.000326	0.00107	1	06/20/2017 13:30	WG990989
1,3-Dichlorobenzene	U		0.000256	0.00107	1	06/20/2017 13:30	WG990989
1,4-Dichlorobenzene	U		0.000242	0.00107	1	06/20/2017 13:30	WG990989
Dichlorodifluoromethane	U		0.000763	0.00535	1	06/20/2017 13:30	WG990989
1,1-Dichloroethane	U		0.000213	0.00107	1	06/20/2017 13:30	WG990989
1,2-Dichloroethane	U		0.000284	0.00107	1	06/20/2017 13:30	WG990989
1,1-Dichloroethene	U		0.000324	0.00107	1	06/20/2017 13:30	WG990989
cis-1,2-Dichloroethene	U	J4	0.000251	0.00107	1	06/20/2017 13:30	WG990989
trans-1,2-Dichloroethene	U	J4	0.000282	0.00107	1	06/20/2017 13:30	WG990989
1,2-Dichloropropane	U		0.000383	0.00107	1	06/20/2017 13:30	WG990989
1,1-Dichloropropene	U		0.000339	0.00107	1	06/20/2017 13:30	WG990989
1,3-Dichloropropane	U		0.000222	0.00107	1	06/20/2017 13:30	WG990989
cis-1,3-Dichloropropene	U		0.000280	0.00107	1	06/20/2017 13:30	WG990989
trans-1,3-Dichloropropene	U		0.000286	0.00107	1	06/20/2017 13:30	WG990989
2,2-Dichloropropane	U		0.000299	0.00107	1	06/20/2017 13:30	WG990989
Di-isopropyl ether	U		0.000265	0.00107	1	06/20/2017 13:30	WG990989
Ethylbenzene	U		0.000318	0.00107	1	06/20/2017 13:30	WG990989
Hexachloro-1,3-butadiene	U		0.000366	0.00107	1	06/20/2017 13:30	WG990989
Isopropylbenzene	U		0.000260	0.00107	1	06/20/2017 13:30	WG990989
p-Isopropyltoluene	U		0.000218	0.00107	1	06/20/2017 13:30	WG990989
2-Butanone (MEK)	U	J0	0.00501	0.0107	1	06/20/2017 13:30	WG990989
Methylene Chloride	U		0.00107	0.00535	1	06/20/2017 13:30	WG990989
4-Methyl-2-pentanone (MIBK)	U		0.00201	0.0107	1	06/20/2017 13:30	WG990989
Methyl tert-butyl ether	U		0.000227	0.00107	1	06/20/2017 13:30	WG990989
Naphthalene	U		0.00107	0.00535	1	06/20/2017 13:30	WG990989
n-Propylbenzene	U		0.000220	0.00107	1	06/20/2017 13:30	WG990989
Styrene	U		0.000250	0.00107	1	06/20/2017 13:30	WG990989
1,1,1,2-Tetrachloroethane	U		0.000282	0.00107	1	06/20/2017 13:30	WG990989
1,1,2,2-Tetrachloroethane	U		0.000391	0.00107	1	06/20/2017 13:30	WG990989

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.000391	0.00107	1	06/20/2017 13:30	WG990989
Tetrachloroethene	U		0.000295	0.00107	1	06/20/2017 13:30	WG990989
Toluene	0.00374	J	0.000464	0.00535	1	06/20/2017 13:30	WG990989
1,2,3-Trichlorobenzene	U		0.000327	0.00107	1	06/20/2017 13:30	WG990989
1,2,4-Trichlorobenzene	U		0.000415	0.00107	1	06/20/2017 13:30	WG990989
1,1,1-Trichloroethane	U		0.000306	0.00107	1	06/20/2017 13:30	WG990989
1,1,2-Trichloroethane	U		0.000296	0.00107	1	06/20/2017 13:30	WG990989
Trichloroethene	U		0.000299	0.00107	1	06/20/2017 13:30	WG990989
Trichlorofluoromethane	U		0.000409	0.00535	1	06/20/2017 13:30	WG990989
1,2,3-Trichloropropane	U		0.000793	0.00268	1	06/20/2017 13:30	WG990989
1,2,4-Trimethylbenzene	0.000661	J	0.000226	0.00107	1	06/20/2017 13:30	WG990989
1,2,3-Trimethylbenzene	U		0.000307	0.00107	1	06/20/2017 13:30	WG990989
Vinyl chloride	U		0.000311	0.00107	1	06/20/2017 13:30	WG990989
1,3,5-Trimethylbenzene	0.000399	J	0.000285	0.00107	1	06/20/2017 13:30	WG990989
Xylenes, Total	0.00293	J	0.000747	0.00321	1	06/20/2017 13:30	WG990989
(S) Toluene-d8	*104*			*80.0-120*		*06/20/2017 13:30*	WG990989
(S) Dibromofluoromethane	*122*			*74.0-131*		*06/20/2017 13:30*	WG990989
(S) 4-Bromofluorobenzene	*92.3*			*64.0-132*		*06/20/2017 13:30*	WG990989

Pesticides (GC) by Method 8081

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Aldrin	U		0.00144	0.0214	1	06/19/2017 15:55	WG990183
Alpha BHC	U		0.00146	0.0214	1	06/19/2017 15:55	WG990183
Beta BHC	U		0.00171	0.0214	1	06/19/2017 15:55	WG990183
Delta BHC	U		0.00153	0.0214	1	06/19/2017 15:55	WG990183
Gamma BHC	U		0.00155	0.0214	1	06/19/2017 15:55	WG990183
Chlordane	U		0.0417	0.214	1	06/19/2017 15:55	WG990183
4,4-DDD	U		0.00167	0.0214	1	06/19/2017 15:55	WG990183
4,4-DDE	U		0.00165	0.0214	1	06/19/2017 15:55	WG990183
4,4-DDT	U		0.00214	0.0214	1	06/19/2017 15:55	WG990183
Dieldrin	U		0.00163	0.0214	1	06/19/2017 15:55	WG990183
Endosulfan I	U		0.00159	0.0214	1	06/19/2017 15:55	WG990183
Endosulfan II	U		0.00171	0.0214	1	06/19/2017 15:55	WG990183
Endosulfan sulfate	U		0.00162	0.0214	1	06/19/2017 15:55	WG990183
Endrin	U		0.00168	0.0214	1	06/19/2017 15:55	WG990183
Endrin aldehyde	U		0.00138	0.0214	1	06/19/2017 15:55	WG990183
Endrin ketone	U		0.00177	0.0214	1	06/19/2017 15:55	WG990183
Heptachlor	U		0.00165	0.0214	1	06/19/2017 15:55	WG990183
Heptachlor epoxide	U		0.00172	0.0214	1	06/19/2017 15:55	WG990183
Hexachlorobenzene	U		0.00133	0.0214	1	06/19/2017 15:55	WG990183
Methoxychlor	U		0.00190	0.0214	1	06/19/2017 15:55	WG990183
Toxaphene	U		0.0385	0.428	1	06/19/2017 15:55	WG990183
(S) Decachlorobiphenyl	*99.2*			*10.0-148*		*06/19/2017 15:55*	WG990183
(S) Tetrachloro-m-xylene	*86.8*			*21.0-146*		*06/19/2017 15:55*	WG990183

Polychlorinated Biphenyls (GC) by Method 8082

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
PCB 1016	U		0.00375	0.0182	1	06/19/2017 13:33	WG990183
PCB 1221	U		0.00575	0.0182	1	06/19/2017 13:33	WG990183
PCB 1232	U		0.00446	0.0182	1	06/19/2017 13:33	WG990183
PCB 1242	U		0.00340	0.0182	1	06/19/2017 13:33	WG990183
PCB 1248	U		0.00337	0.0182	1	06/19/2017 13:33	WG990183
PCB 1254	U		0.00505	0.0182	1	06/19/2017 13:33	WG990183

Polychlorinated Biphenyls (GC) by Method 8082

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
PCB 1260	U		0.00529	0.0182	1	06/19/2017 13:33	WG990183
(S) Decachlorobiphenyl	*138*			*10.0-148*		*06/19/2017 13:33*	WG990183
(S) Tetrachloro-m-xylene	*98.4*			*21.0-146*		*06/19/2017 13:33*	WG990183

Semi Volatile Organic Compounds (GC/MS) by Method 8270D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	U		0.00687	0.0353	1	06/20/2017 11:03	WG990189
Acenaphthylene	U		0.00718	0.0353	1	06/20/2017 11:03	WG990189
Anthracene	U		0.00676	0.0353	1	06/20/2017 11:03	WG990189
Benzidine	U	J4	0.0682	0.356	1	06/20/2017 11:03	WG990189
Benzo(a)anthracene	U		0.00458	0.0353	1	06/20/2017 11:03	WG990189
Benzo(b)fluoranthene	U		0.00744	0.0353	1	06/20/2017 11:03	WG990189
Benzo(k)fluoranthene	U		0.00623	0.0353	1	06/20/2017 11:03	WG990189
Benzo(g,h,i)perylene	U		0.00772	0.0353	1	06/20/2017 11:03	WG990189
Benzo(a)pyrene	U		0.00586	0.0353	1	06/20/2017 11:03	WG990189
Bis(2-chlorethoxy)methane	U		0.00824	0.356	1	06/20/2017 11:03	WG990189
Bis(2-chloroethyl)ether	U		0.00959	0.356	1	06/20/2017 11:03	WG990189
Bis(2-chloroisopropyl)ether	U		0.00813	0.356	1	06/20/2017 11:03	WG990189
4-Bromophenyl-phenylether	U		0.0122	0.356	1	06/20/2017 11:03	WG990189
2-Chloronaphthalene	U		0.00684	0.0353	1	06/20/2017 11:03	WG990189
4-Chlorophenyl-phenylether	U		0.00671	0.356	1	06/20/2017 11:03	WG990189
Chrysene	U		0.00594	0.0353	1	06/20/2017 11:03	WG990189
Dibenz(a,h)anthracene	U		0.00879	0.0353	1	06/20/2017 11:03	WG990189
3,3-Dichlorobenzidine	U	J4	0.0850	0.356	1	06/20/2017 11:03	WG990189
2,4-Dinitrotoluene	U		0.00650	0.356	1	06/20/2017 11:03	WG990189
2,6-Dinitrotoluene	U		0.00789	0.356	1	06/20/2017 11:03	WG990189
Fluoranthene	U		0.00531	0.0353	1	06/20/2017 11:03	WG990189
Fluorene	U		0.00730	0.0353	1	06/20/2017 11:03	WG990189
Hexachlorobenzene	U		0.00916	0.356	1	06/20/2017 11:03	WG990189
Hexachloro-1,3-butadiene	U		0.0107	0.356	1	06/20/2017 11:03	WG990189
Hexachlorocyclopentadiene	U		0.0628	0.356	1	06/20/2017 11:03	WG990189
Hexachloroethane	U		0.0143	0.356	1	06/20/2017 11:03	WG990189
Indeno(1,2,3-cd)pyrene	U		0.00826	0.0353	1	06/20/2017 11:03	WG990189
Isophorone	U		0.00559	0.356	1	06/20/2017 11:03	WG990189
Naphthalene	U		0.00951	0.0353	1	06/20/2017 11:03	WG990189
Nitrobenzene	U		0.00744	0.356	1	06/20/2017 11:03	WG990189
n-Nitrosodimethylamine	U		0.0692	0.356	1	06/20/2017 11:03	WG990189
n-Nitrosodiphenylamine	U		0.00636	0.356	1	06/20/2017 11:03	WG990189
n-Nitrosodi-n-propylamine	U		0.00969	0.356	1	06/20/2017 11:03	WG990189
Phenanthrene	U		0.00565	0.0353	1	06/20/2017 11:03	WG990189
Benzylbutyl phthalate	U		0.0110	0.356	1	06/20/2017 11:03	WG990189
Bis(2-ethylhexyl)phthalate	U		0.0128	0.356	1	06/20/2017 11:03	WG990189
Di-n-butyl phthalate	U		0.0117	0.356	1	06/20/2017 11:03	WG990189
Diethyl phthalate	U		0.00739	0.356	1	06/20/2017 11:03	WG990189
Dimethyl phthalate	U		0.00578	0.356	1	06/20/2017 11:03	WG990189
Di-n-octyl phthalate	U		0.00971	0.356	1	06/20/2017 11:03	WG990189
Pyrene	U		0.0132	0.0353	1	06/20/2017 11:03	WG990189
1,2,4-Trichlorobenzene	U		0.00937	0.356	1	06/20/2017 11:03	WG990189
4-Chloro-3-methylphenol	U		0.00510	0.356	1	06/20/2017 11:03	WG990189
2-Chlorophenol	U		0.00889	0.356	1	06/20/2017 11:03	WG990189
2,4-Dichlorophenol	U		0.00798	0.356	1	06/20/2017 11:03	WG990189
2,4-Dimethylphenol	U		0.0504	0.356	1	06/20/2017 11:03	WG990189
4,6-Dinitro-2-methylphenol	U		0.133	0.356	1	06/20/2017 11:03	WG990189
2,4-Dinitrophenol	U	J3	0.105	0.356	1	06/20/2017 11:03	WG990189
2-Nitrophenol	U		0.0139	0.356	1	06/20/2017 11:03	WG990189

Semi Volatile Organic Compounds (GC/MS) by Method 8270D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
4-Nitrophenol	U		0.0562	0.356	1	06/20/2017 11:03	WG990189
Pentachlorophenol	U		0.0514	0.356	1	06/20/2017 11:03	WG990189
Phenol	U		0.00744	0.356	1	06/20/2017 11:03	WG990189
2,4,6-Trichlorophenol	U		0.00834	0.356	1	06/20/2017 11:03	WG990189
(S) 2-Fluorophenol	*60.9*			*20.0-120*		*06/20/2017 11:03*	WG990189
(S) Phenol-d5	*60.8*			*20.0-120*		*06/20/2017 11:03*	WG990189
(S) Nitrobenzene-d5	*52.9*			*18.0-125*		*06/20/2017 11:03*	WG990189
(S) 2-Fluorobiphenyl	*64.3*			*28.0-120*		*06/20/2017 11:03*	WG990189
(S) 2,4,6-Tribromophenol	*83.6*			*17.0-137*		*06/20/2017 11:03*	WG990189
(S) p-Terphenyl-d14	*69.0*			*13.0-131*		*06/20/2017 11:03*	WG990189

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	95.2		1	06/19/2017 08:55	WG990405

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	0.0142	J	0.0105	0.0525	1	06/20/2017 13:53	WG990989
Acrylonitrile	U		0.00188	0.0105	1	06/20/2017 13:53	WG990989
Benzene	0.00223		0.000284	0.00105	1	06/20/2017 13:53	WG990989
Bromobenzene	U		0.000298	0.00105	1	06/20/2017 13:53	WG990989
Bromodichloromethane	U		0.000267	0.00105	1	06/20/2017 13:53	WG990989
Bromoform	U		0.000445	0.00105	1	06/20/2017 13:53	WG990989
Bromomethane	U		0.00141	0.00525	1	06/20/2017 13:53	WG990989
n-Butylbenzene	U		0.000271	0.00105	1	06/20/2017 13:53	WG990989
sec-Butylbenzene	U		0.000211	0.00105	1	06/20/2017 13:53	WG990989
tert-Butylbenzene	U		0.000216	0.00105	1	06/20/2017 13:53	WG990989
Carbon tetrachloride	U		0.000344	0.00105	1	06/20/2017 13:53	WG990989
Chlorobenzene	U		0.000223	0.00105	1	06/20/2017 13:53	WG990989
Chlorodibromomethane	U		0.000392	0.00105	1	06/20/2017 13:53	WG990989
Chloroethane	U		0.000993	0.00525	1	06/20/2017 13:53	WG990989
Chloroform	U		0.000240	0.00525	1	06/20/2017 13:53	WG990989
Chloromethane	U		0.000394	0.00263	1	06/20/2017 13:53	WG990989
2-Chlorotoluene	U		0.000316	0.00105	1	06/20/2017 13:53	WG990989
4-Chlorotoluene	U		0.000252	0.00105	1	06/20/2017 13:53	WG990989
1,2-Dibromo-3-Chloropropane	U		0.00110	0.00525	1	06/20/2017 13:53	WG990989
1,2-Dibromoethane	U		0.000360	0.00105	1	06/20/2017 13:53	WG990989
Dibromomethane	U		0.000401	0.00105	1	06/20/2017 13:53	WG990989
1,2-Dichlorobenzene	U		0.000320	0.00105	1	06/20/2017 13:53	WG990989
1,3-Dichlorobenzene	U		0.000251	0.00105	1	06/20/2017 13:53	WG990989
1,4-Dichlorobenzene	U		0.000237	0.00105	1	06/20/2017 13:53	WG990989
Dichlorodifluoromethane	U		0.000749	0.00525	1	06/20/2017 13:53	WG990989
1,1-Dichloroethane	U		0.000209	0.00105	1	06/20/2017 13:53	WG990989
1,2-Dichloroethane	U		0.000278	0.00105	1	06/20/2017 13:53	WG990989
1,1-Dichloroethene	U		0.000318	0.00105	1	06/20/2017 13:53	WG990989
cis-1,2-Dichloroethene	U	J4	0.000247	0.00105	1	06/20/2017 13:53	WG990989
trans-1,2-Dichloroethene	U	J4	0.000277	0.00105	1	06/20/2017 13:53	WG990989
1,2-Dichloropropane	U		0.000376	0.00105	1	06/20/2017 13:53	WG990989
1,1-Dichloropropene	U		0.000333	0.00105	1	06/20/2017 13:53	WG990989
1,3-Dichloropropane	U		0.000217	0.00105	1	06/20/2017 13:53	WG990989
cis-1,3-Dichloropropene	U		0.000275	0.00105	1	06/20/2017 13:53	WG990989
trans-1,3-Dichloropropene	U		0.000280	0.00105	1	06/20/2017 13:53	WG990989
2,2-Dichloropropane	U		0.000293	0.00105	1	06/20/2017 13:53	WG990989
Di-isopropyl ether	U		0.000260	0.00105	1	06/20/2017 13:53	WG990989
Ethylbenzene	U		0.000312	0.00105	1	06/20/2017 13:53	WG990989
Hexachloro-1,3-butadiene	U		0.000359	0.00105	1	06/20/2017 13:53	WG990989
Isopropylbenzene	U		0.000255	0.00105	1	06/20/2017 13:53	WG990989
p-Isopropyltoluene	U		0.000214	0.00105	1	06/20/2017 13:53	WG990989
2-Butanone (MEK)	U	J0	0.00491	0.0105	1	06/20/2017 13:53	WG990989
Methylene Chloride	U		0.00105	0.00525	1	06/20/2017 13:53	WG990989
4-Methyl-2-pentanone (MIBK)	U		0.00197	0.0105	1	06/20/2017 13:53	WG990989
Methyl tert-butyl ether	U		0.000223	0.00105	1	06/20/2017 13:53	WG990989
Naphthalene	U		0.00105	0.00525	1	06/20/2017 13:53	WG990989
n-Propylbenzene	U		0.000216	0.00105	1	06/20/2017 13:53	WG990989
Styrene	U		0.000246	0.00105	1	06/20/2017 13:53	WG990989
1,1,1,2-Tetrachloroethane	U		0.000277	0.00105	1	06/20/2017 13:53	WG990989
1,1,2,2-Tetrachloroethane	U		0.000383	0.00105	1	06/20/2017 13:53	WG990989

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.000383	0.00105	1	06/20/2017 13:53	WG990989
Tetrachloroethene	U		0.000290	0.00105	1	06/20/2017 13:53	WG990989
Toluene	0.00340	J	0.000456	0.00525	1	06/20/2017 13:53	WG990989
1,2,3-Trichlorobenzene	U		0.000321	0.00105	1	06/20/2017 13:53	WG990989
1,2,4-Trichlorobenzene	U		0.000407	0.00105	1	06/20/2017 13:53	WG990989
1,1,1-Trichloroethane	U		0.000300	0.00105	1	06/20/2017 13:53	WG990989
1,1,2-Trichloroethane	U		0.000291	0.00105	1	06/20/2017 13:53	WG990989
Trichloroethene	U		0.000293	0.00105	1	06/20/2017 13:53	WG990989
Trichlorofluoromethane	U		0.000401	0.00525	1	06/20/2017 13:53	WG990989
1,2,3-Trichloropropane	U		0.000778	0.00263	1	06/20/2017 13:53	WG990989
1,2,4-Trimethylbenzene	0.000599	J	0.000222	0.00105	1	06/20/2017 13:53	WG990989
1,2,3-Trimethylbenzene	U		0.000301	0.00105	1	06/20/2017 13:53	WG990989
Vinyl chloride	U		0.000306	0.00105	1	06/20/2017 13:53	WG990989
1,3,5-Trimethylbenzene	0.000371	J	0.000279	0.00105	1	06/20/2017 13:53	WG990989
Xylenes, Total	0.00259	J	0.000733	0.00315	1	06/20/2017 13:53	WG990989
(S) Toluene-d8	*103*			*80.0-120*		*06/20/2017 13:53*	WG990989
(S) Dibromofluoromethane	*124*			*74.0-131*		*06/20/2017 13:53*	WG990989
(S) 4-Bromofluorobenzene	*92.9*			*64.0-132*		*06/20/2017 13:53*	WG990989

Semi Volatile Organic Compounds (GC/MS) by Method 8270D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	U		0.00674	0.0347	1	06/20/2017 11:28	WG990189
Acenaphthylene	U		0.00705	0.0347	1	06/20/2017 11:28	WG990189
Anthracene	U		0.00664	0.0347	1	06/20/2017 11:28	WG990189
Benzidine	U	J4	0.0669	0.350	1	06/20/2017 11:28	WG990189
Benzo(a)anthracene	U		0.00449	0.0347	1	06/20/2017 11:28	WG990189
Benzo(b)fluoranthene	U		0.00730	0.0347	1	06/20/2017 11:28	WG990189
Benzo(k)fluoranthene	U		0.00611	0.0347	1	06/20/2017 11:28	WG990189
Benzo(g,h,i)perylene	U		0.00757	0.0347	1	06/20/2017 11:28	WG990189
Benzo(a)pyrene	U		0.00575	0.0347	1	06/20/2017 11:28	WG990189
Bis(2-chlorethoxy)methane	U		0.00809	0.350	1	06/20/2017 11:28	WG990189
Bis(2-chloroethyl)ether	U		0.00941	0.350	1	06/20/2017 11:28	WG990189
Bis(2-chloroisopropyl)ether	U		0.00798	0.350	1	06/20/2017 11:28	WG990189
4-Bromophenyl-phenylether	U		0.0120	0.350	1	06/20/2017 11:28	WG990189
2-Chloronaphthalene	U		0.00671	0.0347	1	06/20/2017 11:28	WG990189
4-Chlorophenyl-phenylether	U		0.00658	0.350	1	06/20/2017 11:28	WG990189
Chrysene	U		0.00583	0.0347	1	06/20/2017 11:28	WG990189
Dibenz(a,h)anthracene	U		0.00862	0.0347	1	06/20/2017 11:28	WG990189
3,3-Dichlorobenzidine	U	J4	0.0834	0.350	1	06/20/2017 11:28	WG990189
2,4-Dinitrotoluene	U		0.00637	0.350	1	06/20/2017 11:28	WG990189
2,6-Dinitrotoluene	U		0.00774	0.350	1	06/20/2017 11:28	WG990189
Fluoranthene	U		0.00521	0.0347	1	06/20/2017 11:28	WG990189
Fluorene	U		0.00716	0.0347	1	06/20/2017 11:28	WG990189
Hexachlorobenzene	U		0.00899	0.350	1	06/20/2017 11:28	WG990189
Hexachloro-1,3-butadiene	U		0.0105	0.350	1	06/20/2017 11:28	WG990189
Hexachlorocyclopentadiene	U		0.0616	0.350	1	06/20/2017 11:28	WG990189
Hexachloroethane	U		0.0141	0.350	1	06/20/2017 11:28	WG990189
Indeno(1,2,3-cd)pyrene	U		0.00811	0.0347	1	06/20/2017 11:28	WG990189
Isophorone	U		0.00548	0.350	1	06/20/2017 11:28	WG990189
Naphthalene	U		0.00933	0.0347	1	06/20/2017 11:28	WG990189
Nitrobenzene	U		0.00730	0.350	1	06/20/2017 11:28	WG990189
n-Nitrosodimethylamine	U		0.0679	0.350	1	06/20/2017 11:28	WG990189
n-Nitrosodiphenylamine	U		0.00624	0.350	1	06/20/2017 11:28	WG990189
n-Nitrosodi-n-propylamine	U		0.00951	0.350	1	06/20/2017 11:28	WG990189
Phenanthrene	U		0.00554	0.0347	1	06/20/2017 11:28	WG990189

Semi Volatile Organic Compounds (GC/MS) by Method 8270D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzylbutyl phthalate	U		0.0108	0.350	1	06/20/2017 11:28	WG990189
Bis(2-ethylhexyl)phthalate	U		0.0126	0.350	1	06/20/2017 11:28	WG990189
Di-n-butyl phthalate	U		0.0114	0.350	1	06/20/2017 11:28	WG990189
Diethyl phthalate	U		0.00726	0.350	1	06/20/2017 11:28	WG990189
Dimethyl phthalate	U		0.00567	0.350	1	06/20/2017 11:28	WG990189
Di-n-octyl phthalate	U		0.00952	0.350	1	06/20/2017 11:28	WG990189
Pyrene	U		0.0129	0.0347	1	06/20/2017 11:28	WG990189
1,2,4-Trichlorobenzene	U		0.00920	0.350	1	06/20/2017 11:28	WG990189
4-Chloro-3-methylphenol	U		0.00501	0.350	1	06/20/2017 11:28	WG990189
2-Chlorophenol	U		0.00873	0.350	1	06/20/2017 11:28	WG990189
2,4-Dichlorophenol	U		0.00783	0.350	1	06/20/2017 11:28	WG990189
2,4-Dimethylphenol	U		0.0495	0.350	1	06/20/2017 11:28	WG990189
4,6-Dinitro-2-methylphenol	U		0.130	0.350	1	06/20/2017 11:28	WG990189
2,4-Dinitrophenol	U	J3	0.103	0.350	1	06/20/2017 11:28	WG990189
2-Nitrophenol	U		0.0137	0.350	1	06/20/2017 11:28	WG990189
4-Nitrophenol	U		0.0551	0.350	1	06/20/2017 11:28	WG990189
Pentachlorophenol	U		0.0504	0.350	1	06/20/2017 11:28	WG990189
Phenol	U		0.00730	0.350	1	06/20/2017 11:28	WG990189
2,4,6-Trichlorophenol	U		0.00818	0.350	1	06/20/2017 11:28	WG990189
(S) 2-Fluorophenol	*53.8*			*20.0-120*		*06/20/2017 11:28*	WG990189
(S) Phenol-d5	*59.2*			*20.0-120*		*06/20/2017 11:28*	WG990189
(S) Nitrobenzene-d5	*57.2*			*18.0-125*		*06/20/2017 11:28*	WG990189
(S) 2-Fluorobiphenyl	*64.6*			*28.0-120*		*06/20/2017 11:28*	WG990189
(S) 2,4,6-Tribromophenol	*71.8*			*17.0-137*		*06/20/2017 11:28*	WG990189
(S) p-Terphenyl-d14	*66.6*			*13.0-131*		*06/20/2017 11:28*	WG990189

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	95.8		1	06/19/2017 08:55	WG990405

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	0.0177	J	0.0104	0.0522	1	06/20/2017 14:16	WG990989
Acrylonitrile	U		0.00187	0.0104	1	06/20/2017 14:16	WG990989
Benzene	0.00209		0.000282	0.00104	1	06/20/2017 14:16	WG990989
Bromobenzene	U		0.000297	0.00104	1	06/20/2017 14:16	WG990989
Bromodichloromethane	U		0.000265	0.00104	1	06/20/2017 14:16	WG990989
Bromoform	U		0.000443	0.00104	1	06/20/2017 14:16	WG990989
Bromomethane	U		0.00140	0.00522	1	06/20/2017 14:16	WG990989
n-Butylbenzene	U		0.000269	0.00104	1	06/20/2017 14:16	WG990989
sec-Butylbenzene	U		0.000210	0.00104	1	06/20/2017 14:16	WG990989
tert-Butylbenzene	U		0.000215	0.00104	1	06/20/2017 14:16	WG990989
Carbon tetrachloride	U		0.000342	0.00104	1	06/20/2017 14:16	WG990989
Chlorobenzene	U		0.000221	0.00104	1	06/20/2017 14:16	WG990989
Chlorodibromomethane	U		0.000389	0.00104	1	06/20/2017 14:16	WG990989
Chloroethane	U		0.000988	0.00522	1	06/20/2017 14:16	WG990989
Chloroform	U		0.000239	0.00522	1	06/20/2017 14:16	WG990989
Chloromethane	U		0.000392	0.00261	1	06/20/2017 14:16	WG990989
2-Chlorotoluene	U		0.000314	0.00104	1	06/20/2017 14:16	WG990989
4-Chlorotoluene	U		0.000251	0.00104	1	06/20/2017 14:16	WG990989
1,2-Dibromo-3-Chloropropane	U		0.00110	0.00522	1	06/20/2017 14:16	WG990989
1,2-Dibromoethane	U		0.000358	0.00104	1	06/20/2017 14:16	WG990989
Dibromomethane	U		0.000399	0.00104	1	06/20/2017 14:16	WG990989
1,2-Dichlorobenzene	U		0.000318	0.00104	1	06/20/2017 14:16	WG990989
1,3-Dichlorobenzene	U		0.000250	0.00104	1	06/20/2017 14:16	WG990989
1,4-Dichlorobenzene	U		0.000236	0.00104	1	06/20/2017 14:16	WG990989
Dichlorodifluoromethane	U		0.000744	0.00522	1	06/20/2017 14:16	WG990989
1,1-Dichloroethane	U		0.000208	0.00104	1	06/20/2017 14:16	WG990989
1,2-Dichloroethane	U		0.000277	0.00104	1	06/20/2017 14:16	WG990989
1,1-Dichloroethene	U		0.000316	0.00104	1	06/20/2017 14:16	WG990989
cis-1,2-Dichloroethene	U	J4	0.000245	0.00104	1	06/20/2017 14:16	WG990989
trans-1,2-Dichloroethene	U	J4	0.000276	0.00104	1	06/20/2017 14:16	WG990989
1,2-Dichloropropane	U		0.000374	0.00104	1	06/20/2017 14:16	WG990989
1,1-Dichloropropene	U		0.000331	0.00104	1	06/20/2017 14:16	WG990989
1,3-Dichloropropane	U		0.000216	0.00104	1	06/20/2017 14:16	WG990989
cis-1,3-Dichloropropene	U		0.000274	0.00104	1	06/20/2017 14:16	WG990989
trans-1,3-Dichloropropene	U		0.000279	0.00104	1	06/20/2017 14:16	WG990989
2,2-Dichloropropane	U		0.000291	0.00104	1	06/20/2017 14:16	WG990989
Di-isopropyl ether	U		0.000259	0.00104	1	06/20/2017 14:16	WG990989
Ethylbenzene	U		0.000310	0.00104	1	06/20/2017 14:16	WG990989
Hexachloro-1,3-butadiene	U		0.000357	0.00104	1	06/20/2017 14:16	WG990989
Isopropylbenzene	U		0.000254	0.00104	1	06/20/2017 14:16	WG990989
p-Isopropyltoluene	U		0.000213	0.00104	1	06/20/2017 14:16	WG990989
2-Butanone (MEK)	U	J0	0.00489	0.0104	1	06/20/2017 14:16	WG990989
Methylene Chloride	U		0.00104	0.00522	1	06/20/2017 14:16	WG990989
4-Methyl-2-pentanone (MIBK)	U		0.00196	0.0104	1	06/20/2017 14:16	WG990989
Methyl tert-butyl ether	U		0.000221	0.00104	1	06/20/2017 14:16	WG990989
Naphthalene	U		0.00104	0.00522	1	06/20/2017 14:16	WG990989
n-Propylbenzene	U		0.000215	0.00104	1	06/20/2017 14:16	WG990989
Styrene	U		0.000244	0.00104	1	06/20/2017 14:16	WG990989
1,1,1,2-Tetrachloroethane	U		0.000276	0.00104	1	06/20/2017 14:16	WG990989
1,1,2,2-Tetrachloroethane	U		0.000381	0.00104	1	06/20/2017 14:16	WG990989

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.000381	0.00104	1	06/20/2017 14:16	WG990989
Tetrachloroethene	U		0.000288	0.00104	1	06/20/2017 14:16	WG990989
Toluene	0.00337	J	0.000453	0.00522	1	06/20/2017 14:16	WG990989
1,2,3-Trichlorobenzene	U		0.000319	0.00104	1	06/20/2017 14:16	WG990989
1,2,4-Trichlorobenzene	U		0.000405	0.00104	1	06/20/2017 14:16	WG990989
1,1,1-Trichloroethane	U		0.000299	0.00104	1	06/20/2017 14:16	WG990989
1,1,2-Trichloroethane	U		0.000289	0.00104	1	06/20/2017 14:16	WG990989
Trichloroethene	U		0.000291	0.00104	1	06/20/2017 14:16	WG990989
Trichlorofluoromethane	U		0.000399	0.00522	1	06/20/2017 14:16	WG990989
1,2,3-Trichloropropane	U		0.000774	0.00261	1	06/20/2017 14:16	WG990989
1,2,4-Trimethylbenzene	0.000585	J	0.000220	0.00104	1	06/20/2017 14:16	WG990989
1,2,3-Trimethylbenzene	U		0.000300	0.00104	1	06/20/2017 14:16	WG990989
Vinyl chloride	U		0.000304	0.00104	1	06/20/2017 14:16	WG990989
1,3,5-Trimethylbenzene	0.000408	J	0.000278	0.00104	1	06/20/2017 14:16	WG990989
Xylenes, Total	0.00259	J	0.000729	0.00313	1	06/20/2017 14:16	WG990989
(S) Toluene-d8	*102*			*80.0-120*		*06/20/2017 14:16*	WG990989
(S) Dibromofluoromethane	*124*			*74.0-131*		*06/20/2017 14:16*	WG990989
(S) 4-Bromofluorobenzene	*91.0*			*64.0-132*		*06/20/2017 14:16*	WG990989

Semi Volatile Organic Compounds (GC/MS) by Method 8270D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	U		0.00670	0.0345	1	06/20/2017 11:54	WG990189
Acenaphthylene	U		0.00701	0.0345	1	06/20/2017 11:54	WG990189
Anthracene	U		0.00660	0.0345	1	06/20/2017 11:54	WG990189
Benzidine	U	J4	0.0665	0.348	1	06/20/2017 11:54	WG990189
Benzo(a)anthracene	U		0.00447	0.0345	1	06/20/2017 11:54	WG990189
Benzo(b)fluoranthene	U		0.00726	0.0345	1	06/20/2017 11:54	WG990189
Benzo(k)fluoranthene	U		0.00608	0.0345	1	06/20/2017 11:54	WG990189
Benzo(g,h,i)perylene	U		0.00753	0.0345	1	06/20/2017 11:54	WG990189
Benzo(a)pyrene	U		0.00572	0.0345	1	06/20/2017 11:54	WG990189
Bis(2-chlorethoxy)methane	U		0.00804	0.348	1	06/20/2017 11:54	WG990189
Bis(2-chloroethyl)ether	U		0.00935	0.348	1	06/20/2017 11:54	WG990189
Bis(2-chloroisopropyl)ether	U		0.00793	0.348	1	06/20/2017 11:54	WG990189
4-Bromophenyl-phenylether	U		0.0119	0.348	1	06/20/2017 11:54	WG990189
2-Chloronaphthalene	U		0.00667	0.0345	1	06/20/2017 11:54	WG990189
4-Chlorophenyl-phenylether	U		0.00655	0.348	1	06/20/2017 11:54	WG990189
Chrysene	U		0.00579	0.0345	1	06/20/2017 11:54	WG990189
Dibenz(a,h)anthracene	U		0.00857	0.0345	1	06/20/2017 11:54	WG990189
3,3-Dichlorobenzidine	U	J4	0.0829	0.348	1	06/20/2017 11:54	WG990189
2,4-Dinitrotoluene	U		0.00634	0.348	1	06/20/2017 11:54	WG990189
2,6-Dinitrotoluene	U		0.00769	0.348	1	06/20/2017 11:54	WG990189
Fluoranthene	U		0.00518	0.0345	1	06/20/2017 11:54	WG990189
Fluorene	U		0.00712	0.0345	1	06/20/2017 11:54	WG990189
Hexachlorobenzene	U		0.00894	0.348	1	06/20/2017 11:54	WG990189
Hexachloro-1,3-butadiene	U		0.0104	0.348	1	06/20/2017 11:54	WG990189
Hexachlorocyclopentadiene	U		0.0613	0.348	1	06/20/2017 11:54	WG990189
Hexachloroethane	U		0.0140	0.348	1	06/20/2017 11:54	WG990189
Indeno(1,2,3-cd)pyrene	U		0.00806	0.0345	1	06/20/2017 11:54	WG990189
Isophorone	U		0.00545	0.348	1	06/20/2017 11:54	WG990189
Naphthalene	U		0.00928	0.0345	1	06/20/2017 11:54	WG990189
Nitrobenzene	U		0.00726	0.348	1	06/20/2017 11:54	WG990189
n-Nitrosodimethylamine	U		0.0676	0.348	1	06/20/2017 11:54	WG990189
n-Nitrosodiphenylamine	U		0.00620	0.348	1	06/20/2017 11:54	WG990189
n-Nitrosodi-n-propylamine	U		0.00946	0.348	1	06/20/2017 11:54	WG990189
Phenanthrene	U		0.00551	0.0345	1	06/20/2017 11:54	WG990189

Semi Volatile Organic Compounds (GC/MS) by Method 8270D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzylbutyl phthalate	U		0.0108	0.348	1	06/20/2017 11:54	WG990189
Bis(2-ethylhexyl)phthalate	U		0.0125	0.348	1	06/20/2017 11:54	WG990189
Di-n-butyl phthalate	U		0.0114	0.348	1	06/20/2017 11:54	WG990189
Diethyl phthalate	U		0.00721	0.348	1	06/20/2017 11:54	WG990189
Dimethyl phthalate	U		0.00564	0.348	1	06/20/2017 11:54	WG990189
Di-n-octyl phthalate	U		0.00947	0.348	1	06/20/2017 11:54	WG990189
Pyrene	U		0.0128	0.0345	1	06/20/2017 11:54	WG990189
1,2,4-Trichlorobenzene	U		0.00915	0.348	1	06/20/2017 11:54	WG990189
4-Chloro-3-methylphenol	U		0.00498	0.348	1	06/20/2017 11:54	WG990189
2-Chlorophenol	U		0.00868	0.348	1	06/20/2017 11:54	WG990189
2,4-Dichlorophenol	U		0.00779	0.348	1	06/20/2017 11:54	WG990189
2,4-Dimethylphenol	U		0.0492	0.348	1	06/20/2017 11:54	WG990189
4,6-Dinitro-2-methylphenol	U		0.129	0.348	1	06/20/2017 11:54	WG990189
2,4-Dinitrophenol	U	J3	0.102	0.348	1	06/20/2017 11:54	WG990189
2-Nitrophenol	U		0.0136	0.348	1	06/20/2017 11:54	WG990189
4-Nitrophenol	U		0.0548	0.348	1	06/20/2017 11:54	WG990189
Pentachlorophenol	U		0.0501	0.348	1	06/20/2017 11:54	WG990189
Phenol	U		0.00726	0.348	1	06/20/2017 11:54	WG990189
2,4,6-Trichlorophenol	U		0.00813	0.348	1	06/20/2017 11:54	WG990189
(S) 2-Fluorophenol	*67.7*			*20.0-120*		*06/20/2017 11:54*	WG990189
(S) Phenol-d5	*68.5*			*20.0-120*		*06/20/2017 11:54*	WG990189
(S) Nitrobenzene-d5	*65.2*			*18.0-125*		*06/20/2017 11:54*	WG990189
(S) 2-Fluorobiphenyl	*64.9*			*28.0-120*		*06/20/2017 11:54*	WG990189
(S) 2,4,6-Tribromophenol	*85.7*			*17.0-137*		*06/20/2017 11:54*	WG990189
(S) p-Terphenyl-d14	*67.5*			*13.0-131*		*06/20/2017 11:54*	WG990189

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	94.4		1	06/19/2017 08:55	WG990405

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	0.0236	J	0.0106	0.0530	1	06/20/2017 14:38	WG990989
Acrylonitrile	U		0.00190	0.0106	1	06/20/2017 14:38	WG990989
Benzene	0.00231		0.000286	0.00106	1	06/20/2017 14:38	WG990989
Bromobenzene	U		0.000301	0.00106	1	06/20/2017 14:38	WG990989
Bromodichloromethane	U		0.000269	0.00106	1	06/20/2017 14:38	WG990989
Bromoform	U		0.000449	0.00106	1	06/20/2017 14:38	WG990989
Bromomethane	U		0.00142	0.00530	1	06/20/2017 14:38	WG990989
n-Butylbenzene	U		0.000273	0.00106	1	06/20/2017 14:38	WG990989
sec-Butylbenzene	U		0.000213	0.00106	1	06/20/2017 14:38	WG990989
tert-Butylbenzene	U		0.000218	0.00106	1	06/20/2017 14:38	WG990989
Carbon tetrachloride	U		0.000347	0.00106	1	06/20/2017 14:38	WG990989
Chlorobenzene	U		0.000225	0.00106	1	06/20/2017 14:38	WG990989
Chlorodibromomethane	U		0.000395	0.00106	1	06/20/2017 14:38	WG990989
Chloroethane	U		0.00100	0.00530	1	06/20/2017 14:38	WG990989
Chloroform	U		0.000243	0.00530	1	06/20/2017 14:38	WG990989
Chloromethane	U		0.000397	0.00265	1	06/20/2017 14:38	WG990989
2-Chlorotoluene	U		0.000319	0.00106	1	06/20/2017 14:38	WG990989
4-Chlorotoluene	U		0.000254	0.00106	1	06/20/2017 14:38	WG990989
1,2-Dibromo-3-Chloropropane	U		0.00111	0.00530	1	06/20/2017 14:38	WG990989
1,2-Dibromoethane	U		0.000363	0.00106	1	06/20/2017 14:38	WG990989
Dibromomethane	U		0.000405	0.00106	1	06/20/2017 14:38	WG990989
1,2-Dichlorobenzene	U		0.000323	0.00106	1	06/20/2017 14:38	WG990989
1,3-Dichlorobenzene	U		0.000253	0.00106	1	06/20/2017 14:38	WG990989
1,4-Dichlorobenzene	U		0.000239	0.00106	1	06/20/2017 14:38	WG990989
Dichlorodifluoromethane	U		0.000755	0.00530	1	06/20/2017 14:38	WG990989
1,1-Dichloroethane	U		0.000211	0.00106	1	06/20/2017 14:38	WG990989
1,2-Dichloroethane	U		0.000281	0.00106	1	06/20/2017 14:38	WG990989
1,1-Dichloroethene	U		0.000321	0.00106	1	06/20/2017 14:38	WG990989
cis-1,2-Dichloroethene	U	J4	0.000249	0.00106	1	06/20/2017 14:38	WG990989
trans-1,2-Dichloroethene	U	J4	0.000280	0.00106	1	06/20/2017 14:38	WG990989
1,2-Dichloropropane	U		0.000379	0.00106	1	06/20/2017 14:38	WG990989
1,1-Dichloropropene	U		0.000336	0.00106	1	06/20/2017 14:38	WG990989
1,3-Dichloropropane	U		0.000219	0.00106	1	06/20/2017 14:38	WG990989
cis-1,3-Dichloropropene	U		0.000278	0.00106	1	06/20/2017 14:38	WG990989
trans-1,3-Dichloropropene	U		0.000283	0.00106	1	06/20/2017 14:38	WG990989
2,2-Dichloropropane	U		0.000296	0.00106	1	06/20/2017 14:38	WG990989
Di-isopropyl ether	U		0.000263	0.00106	1	06/20/2017 14:38	WG990989
Ethylbenzene	U		0.000315	0.00106	1	06/20/2017 14:38	WG990989
Hexachloro-1,3-butadiene	U		0.000362	0.00106	1	06/20/2017 14:38	WG990989
Isopropylbenzene	U		0.000257	0.00106	1	06/20/2017 14:38	WG990989
p-Isopropyltoluene	U		0.000216	0.00106	1	06/20/2017 14:38	WG990989
2-Butanone (MEK)	U	J0	0.00496	0.0106	1	06/20/2017 14:38	WG990989
Methylene Chloride	U		0.00106	0.00530	1	06/20/2017 14:38	WG990989
4-Methyl-2-pentanone (MIBK)	U		0.00199	0.0106	1	06/20/2017 14:38	WG990989
Methyl tert-butyl ether	U		0.000225	0.00106	1	06/20/2017 14:38	WG990989
Naphthalene	U		0.00106	0.00530	1	06/20/2017 14:38	WG990989
n-Propylbenzene	U		0.000218	0.00106	1	06/20/2017 14:38	WG990989
Styrene	U		0.000248	0.00106	1	06/20/2017 14:38	WG990989
1,1,1,2-Tetrachloroethane	U		0.000280	0.00106	1	06/20/2017 14:38	WG990989
1,1,2,2-Tetrachloroethane	U		0.000387	0.00106	1	06/20/2017 14:38	WG990989

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.000387	0.00106	1	06/20/2017 14:38	WG990989
Tetrachloroethene	U		0.000292	0.00106	1	06/20/2017 14:38	WG990989
Toluene	0.00402	J	0.000460	0.00530	1	06/20/2017 14:38	WG990989
1,2,3-Trichlorobenzene	U		0.000324	0.00106	1	06/20/2017 14:38	WG990989
1,2,4-Trichlorobenzene	U		0.000411	0.00106	1	06/20/2017 14:38	WG990989
1,1,1-Trichloroethane	U		0.000303	0.00106	1	06/20/2017 14:38	WG990989
1,1,2-Trichloroethane	U		0.000293	0.00106	1	06/20/2017 14:38	WG990989
Trichloroethene	U		0.000296	0.00106	1	06/20/2017 14:38	WG990989
Trichlorofluoromethane	U		0.000405	0.00530	1	06/20/2017 14:38	WG990989
1,2,3-Trichloropropane	U		0.000785	0.00265	1	06/20/2017 14:38	WG990989
1,2,4-Trimethylbenzene	0.000787	J	0.000224	0.00106	1	06/20/2017 14:38	WG990989
1,2,3-Trimethylbenzene	U		0.000304	0.00106	1	06/20/2017 14:38	WG990989
Vinyl chloride	U		0.000308	0.00106	1	06/20/2017 14:38	WG990989
1,3,5-Trimethylbenzene	0.000490	J	0.000282	0.00106	1	06/20/2017 14:38	WG990989
Xylenes, Total	0.00329		0.000739	0.00318	1	06/20/2017 14:38	WG990989
(S) Toluene-d8	*104*			*80.0-120*		*06/20/2017 14:38*	WG990989
(S) Dibromofluoromethane	*123*			*74.0-131*		*06/20/2017 14:38*	WG990989
(S) 4-Bromofluorobenzene	*92.3*			*64.0-132*		*06/20/2017 14:38*	WG990989

Semi Volatile Organic Compounds (GC/MS) by Method 8270D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	U		0.00680	0.0350	1	06/20/2017 12:19	WG990189
Acenaphthylene	U		0.00711	0.0350	1	06/20/2017 12:19	WG990189
Anthracene	U		0.00669	0.0350	1	06/20/2017 12:19	WG990189
Benzidine	U	J4	0.0675	0.353	1	06/20/2017 12:19	WG990189
Benzo(a)anthracene	U		0.00453	0.0350	1	06/20/2017 12:19	WG990189
Benzo(b)fluoranthene	U		0.00736	0.0350	1	06/20/2017 12:19	WG990189
Benzo(k)fluoranthene	U		0.00617	0.0350	1	06/20/2017 12:19	WG990189
Benzo(g,h,i)perylene	U		0.00764	0.0350	1	06/20/2017 12:19	WG990189
Benzo(a)pyrene	U		0.00581	0.0350	1	06/20/2017 12:19	WG990189
Bis(2-chlorethoxy)methane	U		0.00816	0.353	1	06/20/2017 12:19	WG990189
Bis(2-chloroethyl)ether	U		0.00949	0.353	1	06/20/2017 12:19	WG990189
Bis(2-chloroisopropyl)ether	U		0.00805	0.353	1	06/20/2017 12:19	WG990189
4-Bromophenyl-phenylether	U		0.0121	0.353	1	06/20/2017 12:19	WG990189
2-Chloronaphthalene	U		0.00677	0.0350	1	06/20/2017 12:19	WG990189
4-Chlorophenyl-phenylether	U		0.00664	0.353	1	06/20/2017 12:19	WG990189
Chrysene	U		0.00588	0.0350	1	06/20/2017 12:19	WG990189
Dibenz(a,h)anthracene	U		0.00870	0.0350	1	06/20/2017 12:19	WG990189
3,3-Dichlorobenzidine	U	J4	0.0841	0.353	1	06/20/2017 12:19	WG990189
2,4-Dinitrotoluene	U		0.00643	0.353	1	06/20/2017 12:19	WG990189
2,6-Dinitrotoluene	U		0.00781	0.353	1	06/20/2017 12:19	WG990189
Fluoranthene	U		0.00525	0.0350	1	06/20/2017 12:19	WG990189
Fluorene	U		0.00722	0.0350	1	06/20/2017 12:19	WG990189
Hexachlorobenzene	U		0.00907	0.353	1	06/20/2017 12:19	WG990189
Hexachloro-1,3-butadiene	U		0.0106	0.353	1	06/20/2017 12:19	WG990189
Hexachlorocyclopentadiene	U		0.0622	0.353	1	06/20/2017 12:19	WG990189
Hexachloroethane	U		0.0142	0.353	1	06/20/2017 12:19	WG990189
Indeno(1,2,3-cd)pyrene	U		0.00818	0.0350	1	06/20/2017 12:19	WG990189
Isophorone	U		0.00553	0.353	1	06/20/2017 12:19	WG990189
Naphthalene	U		0.00942	0.0350	1	06/20/2017 12:19	WG990189
Nitrobenzene	U		0.00736	0.353	1	06/20/2017 12:19	WG990189
n-Nitrosodimethylamine	U		0.0685	0.353	1	06/20/2017 12:19	WG990189
n-Nitrosodiphenylamine	U		0.00629	0.353	1	06/20/2017 12:19	WG990189
n-Nitrosodi-n-propylamine	U		0.00960	0.353	1	06/20/2017 12:19	WG990189
Phenanthrene	U		0.00559	0.0350	1	06/20/2017 12:19	WG990189

Semi Volatile Organic Compounds (GC/MS) by Method 8270D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzylbutyl phthalate	U		0.0109	0.353	1	06/20/2017 12:19	WG990189
Bis(2-ethylhexyl)phthalate	U		0.0127	0.353	1	06/20/2017 12:19	WG990189
Di-n-butyl phthalate	U		0.0115	0.353	1	06/20/2017 12:19	WG990189
Diethyl phthalate	U		0.00732	0.353	1	06/20/2017 12:19	WG990189
Dimethyl phthalate	U		0.00572	0.353	1	06/20/2017 12:19	WG990189
Di-n-octyl phthalate	U		0.00961	0.353	1	06/20/2017 12:19	WG990189
Pyrene	U		0.0130	0.0350	1	06/20/2017 12:19	WG990189
1,2,4-Trichlorobenzene	U		0.00928	0.353	1	06/20/2017 12:19	WG990189
4-Chloro-3-methylphenol	U		0.00505	0.353	1	06/20/2017 12:19	WG990189
2-Chlorophenol	U		0.00880	0.353	1	06/20/2017 12:19	WG990189
2,4-Dichlorophenol	U		0.00790	0.353	1	06/20/2017 12:19	WG990189
2,4-Dimethylphenol	U		0.0499	0.353	1	06/20/2017 12:19	WG990189
4,6-Dinitro-2-methylphenol	U		0.131	0.353	1	06/20/2017 12:19	WG990189
2,4-Dinitrophenol	U	J3	0.104	0.353	1	06/20/2017 12:19	WG990189
2-Nitrophenol	U		0.0138	0.353	1	06/20/2017 12:19	WG990189
4-Nitrophenol	U		0.0556	0.353	1	06/20/2017 12:19	WG990189
Pentachlorophenol	U		0.0508	0.353	1	06/20/2017 12:19	WG990189
Phenol	U		0.00736	0.353	1	06/20/2017 12:19	WG990189
2,4,6-Trichlorophenol	U		0.00825	0.353	1	06/20/2017 12:19	WG990189
(S) 2-Fluorophenol	*67.3*			*20.0-120*		*06/20/2017 12:19*	WG990189
(S) Phenol-d5	*66.9*			*20.0-120*		*06/20/2017 12:19*	WG990189
(S) Nitrobenzene-d5	*56.5*			*18.0-125*		*06/20/2017 12:19*	WG990189
(S) 2-Fluorobiphenyl	*71.4*			*28.0-120*		*06/20/2017 12:19*	WG990189
(S) 2,4,6-Tribromophenol	*87.4*			*17.0-137*		*06/20/2017 12:19*	WG990189
(S) p-Terphenyl-d14	*72.6*			*13.0-131*		*06/20/2017 12:19*	WG990189

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	96.0		1	06/19/2017 08:55	WG990405

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	0.0144	J	0.0104	0.0521	1	06/20/2017 15:01	WG990989
Acrylonitrile	U		0.00187	0.0104	1	06/20/2017 15:01	WG990989
Benzene	0.00206		0.000281	0.00104	1	06/20/2017 15:01	WG990989
Bromobenzene	U		0.000296	0.00104	1	06/20/2017 15:01	WG990989
Bromodichloromethane	U		0.000265	0.00104	1	06/20/2017 15:01	WG990989
Bromoform	U		0.000442	0.00104	1	06/20/2017 15:01	WG990989
Bromomethane	U		0.00140	0.00521	1	06/20/2017 15:01	WG990989
n-Butylbenzene	U		0.000269	0.00104	1	06/20/2017 15:01	WG990989
sec-Butylbenzene	U		0.000209	0.00104	1	06/20/2017 15:01	WG990989
tert-Butylbenzene	U		0.000215	0.00104	1	06/20/2017 15:01	WG990989
Carbon tetrachloride	U		0.000342	0.00104	1	06/20/2017 15:01	WG990989
Chlorobenzene	U		0.000221	0.00104	1	06/20/2017 15:01	WG990989
Chlorodibromomethane	U		0.000389	0.00104	1	06/20/2017 15:01	WG990989
Chloroethane	U		0.000986	0.00521	1	06/20/2017 15:01	WG990989
Chloroform	U		0.000239	0.00521	1	06/20/2017 15:01	WG990989
Chloromethane	U		0.000391	0.00260	1	06/20/2017 15:01	WG990989
2-Chlorotoluene	U		0.000314	0.00104	1	06/20/2017 15:01	WG990989
4-Chlorotoluene	U		0.000250	0.00104	1	06/20/2017 15:01	WG990989
1,2-Dibromo-3-Chloropropane	U		0.00109	0.00521	1	06/20/2017 15:01	WG990989
1,2-Dibromoethane	U		0.000357	0.00104	1	06/20/2017 15:01	WG990989
Dibromomethane	U		0.000398	0.00104	1	06/20/2017 15:01	WG990989
1,2-Dichlorobenzene	U		0.000318	0.00104	1	06/20/2017 15:01	WG990989
1,3-Dichlorobenzene	U		0.000249	0.00104	1	06/20/2017 15:01	WG990989
1,4-Dichlorobenzene	U		0.000235	0.00104	1	06/20/2017 15:01	WG990989
Dichlorodifluoromethane	U		0.000743	0.00521	1	06/20/2017 15:01	WG990989
1,1-Dichloroethane	U		0.000207	0.00104	1	06/20/2017 15:01	WG990989
1,2-Dichloroethane	U		0.000276	0.00104	1	06/20/2017 15:01	WG990989
1,1-Dichloroethene	U		0.000316	0.00104	1	06/20/2017 15:01	WG990989
cis-1,2-Dichloroethene	U	J4	0.000245	0.00104	1	06/20/2017 15:01	WG990989
trans-1,2-Dichloroethene	U	J4	0.000275	0.00104	1	06/20/2017 15:01	WG990989
1,2-Dichloropropane	U		0.000373	0.00104	1	06/20/2017 15:01	WG990989
1,1-Dichloropropene	U		0.000330	0.00104	1	06/20/2017 15:01	WG990989
1,3-Dichloropropane	U		0.000216	0.00104	1	06/20/2017 15:01	WG990989
cis-1,3-Dichloropropene	U		0.000273	0.00104	1	06/20/2017 15:01	WG990989
trans-1,3-Dichloropropene	U		0.000278	0.00104	1	06/20/2017 15:01	WG990989
2,2-Dichloropropane	U		0.000291	0.00104	1	06/20/2017 15:01	WG990989
Di-isopropyl ether	U		0.000258	0.00104	1	06/20/2017 15:01	WG990989
Ethylbenzene	U		0.000309	0.00104	1	06/20/2017 15:01	WG990989
Hexachloro-1,3-butadiene	U		0.000356	0.00104	1	06/20/2017 15:01	WG990989
Isopropylbenzene	U		0.000253	0.00104	1	06/20/2017 15:01	WG990989
p-Isopropyltoluene	U		0.000213	0.00104	1	06/20/2017 15:01	WG990989
2-Butanone (MEK)	U	J0	0.00488	0.0104	1	06/20/2017 15:01	WG990989
Methylene Chloride	U		0.00104	0.00521	1	06/20/2017 15:01	WG990989
4-Methyl-2-pentanone (MIBK)	U		0.00196	0.0104	1	06/20/2017 15:01	WG990989
Methyl tert-butyl ether	U		0.000221	0.00104	1	06/20/2017 15:01	WG990989
Naphthalene	U		0.00104	0.00521	1	06/20/2017 15:01	WG990989
n-Propylbenzene	U		0.000215	0.00104	1	06/20/2017 15:01	WG990989
Styrene	U		0.000244	0.00104	1	06/20/2017 15:01	WG990989
1,1,1,2-Tetrachloroethane	U		0.000275	0.00104	1	06/20/2017 15:01	WG990989
1,1,2,2-Tetrachloroethane	U		0.000380	0.00104	1	06/20/2017 15:01	WG990989

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.000380	0.00104	1	06/20/2017 15:01	WG990989
Tetrachloroethene	U		0.000288	0.00104	1	06/20/2017 15:01	WG990989
Toluene	0.00346	J	0.000452	0.00521	1	06/20/2017 15:01	WG990989
1,2,3-Trichlorobenzene	U		0.000319	0.00104	1	06/20/2017 15:01	WG990989
1,2,4-Trichlorobenzene	U		0.000404	0.00104	1	06/20/2017 15:01	WG990989
1,1,1-Trichloroethane	U		0.000298	0.00104	1	06/20/2017 15:01	WG990989
1,1,2-Trichloroethane	U		0.000289	0.00104	1	06/20/2017 15:01	WG990989
Trichloroethene	U		0.000291	0.00104	1	06/20/2017 15:01	WG990989
Trichlorofluoromethane	U		0.000398	0.00521	1	06/20/2017 15:01	WG990989
1,2,3-Trichloropropane	U		0.000772	0.00260	1	06/20/2017 15:01	WG990989
1,2,4-Trimethylbenzene	0.000533	J	0.000220	0.00104	1	06/20/2017 15:01	WG990989
1,2,3-Trimethylbenzene	U		0.000299	0.00104	1	06/20/2017 15:01	WG990989
Vinyl chloride	U		0.000303	0.00104	1	06/20/2017 15:01	WG990989
1,3,5-Trimethylbenzene	0.000381	J	0.000277	0.00104	1	06/20/2017 15:01	WG990989
Xylenes, Total	0.00261	J	0.000727	0.00313	1	06/20/2017 15:01	WG990989
(S) Toluene-d8	*104*			*80.0-120*		*06/20/2017 15:01*	WG990989
(S) Dibromofluoromethane	*124*			*74.0-131*		*06/20/2017 15:01*	WG990989
(S) 4-Bromofluorobenzene	*91.0*			*64.0-132*		*06/20/2017 15:01*	WG990989

Semi Volatile Organic Compounds (GC/MS) by Method 8270D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	U		0.00669	0.0344	1	06/20/2017 12:45	WG990189
Acenaphthylene	U		0.00699	0.0344	1	06/20/2017 12:45	WG990189
Anthracene	U		0.00659	0.0344	1	06/20/2017 12:45	WG990189
Benzidine	U	J4	0.0664	0.347	1	06/20/2017 12:45	WG990189
Benzo(a)anthracene	U		0.00446	0.0344	1	06/20/2017 12:45	WG990189
Benzo(b)fluoranthene	U		0.00724	0.0344	1	06/20/2017 12:45	WG990189
Benzo(k)fluoranthene	U		0.00606	0.0344	1	06/20/2017 12:45	WG990189
Benzo(g,h,i)perylene	U		0.00751	0.0344	1	06/20/2017 12:45	WG990189
Benzo(a)pyrene	U		0.00571	0.0344	1	06/20/2017 12:45	WG990189
Bis(2-chlorethoxy)methane	U		0.00802	0.347	1	06/20/2017 12:45	WG990189
Bis(2-chloroethyl)ether	U		0.00934	0.347	1	06/20/2017 12:45	WG990189
Bis(2-chloroisopropyl)ether	U		0.00792	0.347	1	06/20/2017 12:45	WG990189
4-Bromophenyl-phenylether	U		0.0119	0.347	1	06/20/2017 12:45	WG990189
2-Chloronaphthalene	U		0.00666	0.0344	1	06/20/2017 12:45	WG990189
4-Chlorophenyl-phenylether	U		0.00653	0.347	1	06/20/2017 12:45	WG990189
Chrysene	U		0.00578	0.0344	1	06/20/2017 12:45	WG990189
Dibenz(a,h)anthracene	U		0.00855	0.0344	1	06/20/2017 12:45	WG990189
3,3-Dichlorobenzidine	U	J4	0.0827	0.347	1	06/20/2017 12:45	WG990189
2,4-Dinitrotoluene	U		0.00632	0.347	1	06/20/2017 12:45	WG990189
2,6-Dinitrotoluene	U		0.00768	0.347	1	06/20/2017 12:45	WG990189
Fluoranthene	U		0.00517	0.0344	1	06/20/2017 12:45	WG990189
Fluorene	U		0.00711	0.0344	1	06/20/2017 12:45	WG990189
Hexachlorobenzene	U		0.00892	0.347	1	06/20/2017 12:45	WG990189
Hexachloro-1,3-butadiene	U		0.0104	0.347	1	06/20/2017 12:45	WG990189
Hexachlorocyclopentadiene	U		0.0612	0.347	1	06/20/2017 12:45	WG990189
Hexachloroethane	U		0.0140	0.347	1	06/20/2017 12:45	WG990189
Indeno(1,2,3-cd)pyrene	U		0.00804	0.0344	1	06/20/2017 12:45	WG990189
Isophorone	U		0.00544	0.347	1	06/20/2017 12:45	WG990189
Naphthalene	U		0.00926	0.0344	1	06/20/2017 12:45	WG990189
Nitrobenzene	U		0.00724	0.347	1	06/20/2017 12:45	WG990189
n-Nitrosodimethylamine	U		0.0674	0.347	1	06/20/2017 12:45	WG990189
n-Nitrosodiphenylamine	U		0.00619	0.347	1	06/20/2017 12:45	WG990189
n-Nitrosodi-n-propylamine	U		0.00944	0.347	1	06/20/2017 12:45	WG990189
Phenanthrene	U		0.00550	0.0344	1	06/20/2017 12:45	WG990189

Semi Volatile Organic Compounds (GC/MS) by Method 8270D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzylbutyl phthalate	U		0.0107	0.347	1	06/20/2017 12:45	WG990189
Bis(2-ethylhexyl)phthalate	U		0.0125	0.347	1	06/20/2017 12:45	WG990189
Di-n-butyl phthalate	U		0.0114	0.347	1	06/20/2017 12:45	WG990189
Diethyl phthalate	U		0.00720	0.347	1	06/20/2017 12:45	WG990189
Dimethyl phthalate	U		0.00563	0.347	1	06/20/2017 12:45	WG990189
Di-n-octyl phthalate	U		0.00945	0.347	1	06/20/2017 12:45	WG990189
Pyrene	U		0.0128	0.0344	1	06/20/2017 12:45	WG990189
1,2,4-Trichlorobenzene	U		0.00913	0.347	1	06/20/2017 12:45	WG990189
4-Chloro-3-methylphenol	U		0.00497	0.347	1	06/20/2017 12:45	WG990189
2-Chlorophenol	U		0.00866	0.347	1	06/20/2017 12:45	WG990189
2,4-Dichlorophenol	U		0.00777	0.347	1	06/20/2017 12:45	WG990189
2,4-Dimethylphenol	U		0.0491	0.347	1	06/20/2017 12:45	WG990189
4,6-Dinitro-2-methylphenol	U		0.129	0.347	1	06/20/2017 12:45	WG990189
2,4-Dinitrophenol	U	J3	0.102	0.347	1	06/20/2017 12:45	WG990189
2-Nitrophenol	U		0.0135	0.347	1	06/20/2017 12:45	WG990189
4-Nitrophenol	U		0.0547	0.347	1	06/20/2017 12:45	WG990189
Pentachlorophenol	U		0.0500	0.347	1	06/20/2017 12:45	WG990189
Phenol	U		0.00724	0.347	1	06/20/2017 12:45	WG990189
2,4,6-Trichlorophenol	U		0.00812	0.347	1	06/20/2017 12:45	WG990189
(S) 2-Fluorophenol	*51.2*			*20.0-120*		*06/20/2017 12:45*	WG990189
(S) Phenol-d5	*57.0*			*20.0-120*		*06/20/2017 12:45*	WG990189
(S) Nitrobenzene-d5	*53.7*			*18.0-125*		*06/20/2017 12:45*	WG990189
(S) 2-Fluorobiphenyl	*62.5*			*28.0-120*		*06/20/2017 12:45*	WG990189
(S) 2,4,6-Tribromophenol	*71.8*			*17.0-137*		*06/20/2017 12:45*	WG990189
(S) p-Terphenyl-d14	*68.9*			*13.0-131*		*06/20/2017 12:45*	WG990189

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	95.5		1	06/19/2017 10:23	WG990406

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	0.0120	J	0.0105	0.0524	1	06/20/2017 15:23	WG990989
Acrylonitrile	U		0.00187	0.0105	1	06/20/2017 15:23	WG990989
Benzene	0.00158		0.000283	0.00105	1	06/20/2017 15:23	WG990989
Bromobenzene	U		0.000297	0.00105	1	06/20/2017 15:23	WG990989
Bromodichloromethane	U		0.000266	0.00105	1	06/20/2017 15:23	WG990989
Bromoform	U		0.000444	0.00105	1	06/20/2017 15:23	WG990989
Bromomethane	U		0.00140	0.00524	1	06/20/2017 15:23	WG990989
n-Butylbenzene	U		0.000270	0.00105	1	06/20/2017 15:23	WG990989
sec-Butylbenzene	U		0.000211	0.00105	1	06/20/2017 15:23	WG990989
tert-Butylbenzene	U		0.000216	0.00105	1	06/20/2017 15:23	WG990989
Carbon tetrachloride	U		0.000344	0.00105	1	06/20/2017 15:23	WG990989
Chlorobenzene	U		0.000222	0.00105	1	06/20/2017 15:23	WG990989
Chlorodibromomethane	U		0.000391	0.00105	1	06/20/2017 15:23	WG990989
Chloroethane	U		0.000991	0.00524	1	06/20/2017 15:23	WG990989
Chloroform	U		0.000240	0.00524	1	06/20/2017 15:23	WG990989
Chloromethane	U		0.000393	0.00262	1	06/20/2017 15:23	WG990989
2-Chlorotoluene	U		0.000315	0.00105	1	06/20/2017 15:23	WG990989
4-Chlorotoluene	U		0.000251	0.00105	1	06/20/2017 15:23	WG990989
1,2-Dibromo-3-Chloropropane	U		0.00110	0.00524	1	06/20/2017 15:23	WG990989
1,2-Dibromoethane	U		0.000359	0.00105	1	06/20/2017 15:23	WG990989
Dibromomethane	U		0.000400	0.00105	1	06/20/2017 15:23	WG990989
1,2-Dichlorobenzene	U		0.000319	0.00105	1	06/20/2017 15:23	WG990989
1,3-Dichlorobenzene	U		0.000250	0.00105	1	06/20/2017 15:23	WG990989
1,4-Dichlorobenzene	U		0.000237	0.00105	1	06/20/2017 15:23	WG990989
Dichlorodifluoromethane	U		0.000747	0.00524	1	06/20/2017 15:23	WG990989
1,1-Dichloroethane	U		0.000208	0.00105	1	06/20/2017 15:23	WG990989
1,2-Dichloroethane	U		0.000278	0.00105	1	06/20/2017 15:23	WG990989
1,1-Dichloroethene	U		0.000317	0.00105	1	06/20/2017 15:23	WG990989
cis-1,2-Dichloroethene	U	J4	0.000246	0.00105	1	06/20/2017 15:23	WG990989
trans-1,2-Dichloroethene	U	J4	0.000277	0.00105	1	06/20/2017 15:23	WG990989
1,2-Dichloropropane	U		0.000375	0.00105	1	06/20/2017 15:23	WG990989
1,1-Dichloropropene	U		0.000332	0.00105	1	06/20/2017 15:23	WG990989
1,3-Dichloropropane	U		0.000217	0.00105	1	06/20/2017 15:23	WG990989
cis-1,3-Dichloropropene	U		0.000274	0.00105	1	06/20/2017 15:23	WG990989
trans-1,3-Dichloropropene	U		0.000280	0.00105	1	06/20/2017 15:23	WG990989
2,2-Dichloropropane	U		0.000292	0.00105	1	06/20/2017 15:23	WG990989
Di-isopropyl ether	U		0.000260	0.00105	1	06/20/2017 15:23	WG990989
Ethylbenzene	U		0.000311	0.00105	1	06/20/2017 15:23	WG990989
Hexachloro-1,3-butadiene	U		0.000358	0.00105	1	06/20/2017 15:23	WG990989
Isopropylbenzene	U		0.000255	0.00105	1	06/20/2017 15:23	WG990989
p-Isopropyltoluene	U		0.000214	0.00105	1	06/20/2017 15:23	WG990989
2-Butanone (MEK)	U	J0	0.00490	0.0105	1	06/20/2017 15:23	WG990989
Methylene Chloride	U		0.00105	0.00524	1	06/20/2017 15:23	WG990989
4-Methyl-2-pentanone (MIBK)	U		0.00197	0.0105	1	06/20/2017 15:23	WG990989
Methyl tert-butyl ether	U		0.000222	0.00105	1	06/20/2017 15:23	WG990989
Naphthalene	U		0.00105	0.00524	1	06/20/2017 15:23	WG990989
n-Propylbenzene	U		0.000216	0.00105	1	06/20/2017 15:23	WG990989
Styrene	U		0.000245	0.00105	1	06/20/2017 15:23	WG990989
1,1,1,2-Tetrachloroethane	U		0.000277	0.00105	1	06/20/2017 15:23	WG990989
1,1,2,2-Tetrachloroethane	U		0.000382	0.00105	1	06/20/2017 15:23	WG990989

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.000382	0.00105	1	06/20/2017 15:23	WG990989
Tetrachloroethene	U		0.000289	0.00105	1	06/20/2017 15:23	WG990989
Toluene	0.00257	J	0.000455	0.00524	1	06/20/2017 15:23	WG990989
1,2,3-Trichlorobenzene	U		0.000320	0.00105	1	06/20/2017 15:23	WG990989
1,2,4-Trichlorobenzene	U		0.000406	0.00105	1	06/20/2017 15:23	WG990989
1,1,1-Trichloroethane	U		0.000300	0.00105	1	06/20/2017 15:23	WG990989
1,1,2-Trichloroethane	U		0.000290	0.00105	1	06/20/2017 15:23	WG990989
Trichloroethene	U		0.000292	0.00105	1	06/20/2017 15:23	WG990989
Trichlorofluoromethane	U		0.000400	0.00524	1	06/20/2017 15:23	WG990989
1,2,3-Trichloropropane	U		0.000776	0.00262	1	06/20/2017 15:23	WG990989
1,2,4-Trimethylbenzene	0.000434	J	0.000221	0.00105	1	06/20/2017 15:23	WG990989
1,2,3-Trimethylbenzene	U		0.000301	0.00105	1	06/20/2017 15:23	WG990989
Vinyl chloride	U		0.000305	0.00105	1	06/20/2017 15:23	WG990989
1,3,5-Trimethylbenzene	0.000299	J	0.000279	0.00105	1	06/20/2017 15:23	WG990989
Xylenes, Total	0.00193	J	0.000731	0.00314	1	06/20/2017 15:23	WG990989
(S) Toluene-d8	*104*			*80.0-120*		*06/20/2017 15:23*	WG990989
(S) Dibromofluoromethane	*125*			*74.0-131*		*06/20/2017 15:23*	WG990989
(S) 4-Bromofluorobenzene	*93.4*			*64.0-132*		*06/20/2017 15:23*	WG990989

Semi Volatile Organic Compounds (GC/MS) by Method 8270D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	U		0.00672	0.0346	1	06/20/2017 13:11	WG990189
Acenaphthylene	U		0.00703	0.0346	1	06/20/2017 13:11	WG990189
Anthracene	U		0.00662	0.0346	1	06/20/2017 13:11	WG990189
Benzidine	U	J4	0.0667	0.349	1	06/20/2017 13:11	WG990189
Benzo(a)anthracene	U		0.00448	0.0346	1	06/20/2017 13:11	WG990189
Benzo(b)fluoranthene	U		0.00728	0.0346	1	06/20/2017 13:11	WG990189
Benzo(k)fluoranthene	U		0.00610	0.0346	1	06/20/2017 13:11	WG990189
Benzo(g,h,i)perylene	U		0.00755	0.0346	1	06/20/2017 13:11	WG990189
Benzo(a)pyrene	U		0.00574	0.0346	1	06/20/2017 13:11	WG990189
Bis(2-chlorethoxy)methane	U		0.00806	0.349	1	06/20/2017 13:11	WG990189
Bis(2-chloroethyl)ether	U		0.00938	0.349	1	06/20/2017 13:11	WG990189
Bis(2-chloroisopropyl)ether	U		0.00796	0.349	1	06/20/2017 13:11	WG990189
4-Bromophenyl-phenylether	U		0.0119	0.349	1	06/20/2017 13:11	WG990189
2-Chloronaphthalene	U		0.00669	0.0346	1	06/20/2017 13:11	WG990189
4-Chlorophenyl-phenylether	U		0.00657	0.349	1	06/20/2017 13:11	WG990189
Chrysene	U		0.00581	0.0346	1	06/20/2017 13:11	WG990189
Dibenz(a,h)anthracene	U		0.00860	0.0346	1	06/20/2017 13:11	WG990189
3,3-Dichlorobenzidine	U	J4	0.0832	0.349	1	06/20/2017 13:11	WG990189
2,4-Dinitrotoluene	U		0.00636	0.349	1	06/20/2017 13:11	WG990189
2,6-Dinitrotoluene	U		0.00772	0.349	1	06/20/2017 13:11	WG990189
Fluoranthene	U		0.00519	0.0346	1	06/20/2017 13:11	WG990189
Fluorene	U		0.00714	0.0346	1	06/20/2017 13:11	WG990189
Hexachlorobenzene	U		0.00897	0.349	1	06/20/2017 13:11	WG990189
Hexachloro-1,3-butadiene	U		0.0105	0.349	1	06/20/2017 13:11	WG990189
Hexachlorocyclopentadiene	U		0.0615	0.349	1	06/20/2017 13:11	WG990189
Hexachloroethane	U		0.0140	0.349	1	06/20/2017 13:11	WG990189
Indeno(1,2,3-cd)pyrene	U		0.00809	0.0346	1	06/20/2017 13:11	WG990189
Isophorone	U		0.00547	0.349	1	06/20/2017 13:11	WG990189
Naphthalene	U		0.00931	0.0346	1	06/20/2017 13:11	WG990189
Nitrobenzene	U		0.00728	0.349	1	06/20/2017 13:11	WG990189
n-Nitrosodimethylamine	U		0.0678	0.349	1	06/20/2017 13:11	WG990189
n-Nitrosodiphenylamine	U		0.00622	0.349	1	06/20/2017 13:11	WG990189
n-Nitrosodi-n-propylamine	U		0.00949	0.349	1	06/20/2017 13:11	WG990189
Phenanthrene	U		0.00553	0.0346	1	06/20/2017 13:11	WG990189

Semi Volatile Organic Compounds (GC/MS) by Method 8270D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzylbutyl phthalate	U		0.0108	0.349	1	06/20/2017 13:11	WG990189
Bis(2-ethylhexyl)phthalate	U		0.0126	0.349	1	06/20/2017 13:11	WG990189
Di-n-butyl phthalate	U		0.0114	0.349	1	06/20/2017 13:11	WG990189
Diethyl phthalate	U		0.00724	0.349	1	06/20/2017 13:11	WG990189
Dimethyl phthalate	U		0.00566	0.349	1	06/20/2017 13:11	WG990189
Di-n-octyl phthalate	U		0.00950	0.349	1	06/20/2017 13:11	WG990189
Pyrene	U		0.0129	0.0346	1	06/20/2017 13:11	WG990189
1,2,4-Trichlorobenzene	U		0.00917	0.349	1	06/20/2017 13:11	WG990189
4-Chloro-3-methylphenol	U		0.00500	0.349	1	06/20/2017 13:11	WG990189
2-Chlorophenol	U		0.00870	0.349	1	06/20/2017 13:11	WG990189
2,4-Dichlorophenol	U		0.00781	0.349	1	06/20/2017 13:11	WG990189
2,4-Dimethylphenol	U		0.0493	0.349	1	06/20/2017 13:11	WG990189
4,6-Dinitro-2-methylphenol	U		0.130	0.349	1	06/20/2017 13:11	WG990189
2,4-Dinitrophenol	U	J3	0.103	0.349	1	06/20/2017 13:11	WG990189
2-Nitrophenol	U		0.0136	0.349	1	06/20/2017 13:11	WG990189
4-Nitrophenol	U		0.0550	0.349	1	06/20/2017 13:11	WG990189
Pentachlorophenol	U		0.0503	0.349	1	06/20/2017 13:11	WG990189
Phenol	U		0.00728	0.349	1	06/20/2017 13:11	WG990189
2,4,6-Trichlorophenol	U		0.00816	0.349	1	06/20/2017 13:11	WG990189
(S) 2-Fluorophenol	*63.1*			*20.0-120*		*06/20/2017 13:11*	WG990189
(S) Phenol-d5	*63.1*			*20.0-120*		*06/20/2017 13:11*	WG990189
(S) Nitrobenzene-d5	*59.5*			*18.0-125*		*06/20/2017 13:11*	WG990189
(S) 2-Fluorobiphenyl	*64.4*			*28.0-120*		*06/20/2017 13:11*	WG990189
(S) 2,4,6-Tribromophenol	*85.0*			*17.0-137*		*06/20/2017 13:11*	WG990189
(S) p-Terphenyl-d14	*67.0*			*13.0-131*		*06/20/2017 13:11*	WG990189

Method Blank (MB)

(MB) R3226648-1 06/17/17 12:20

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.000300			

L916338-01 Original Sample (OS) • Duplicate (DUP)

(OS) L916338-01 06/17/17 12:20 • (DUP) R3226648-3 06/17/17 12:20

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	94.7	94.7	1	0.0561		5

Laboratory Control Sample (LCS)

(LCS) R3226648-2 06/17/17 12:20

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3226908-1 06/19/17 08:55

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.000400			

L916338-02 Original Sample (OS) • Duplicate (DUP)

(OS) L916338-02 06/19/17 08:55 • (DUP) R3226908-3 06/19/17 08:55

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	93.5	93.0	1	0.469		5

Laboratory Control Sample (LCS)

(LCS) R3226908-2 06/19/17 08:55

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3226916-1 06/19/17 10:23

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.000600			

L916341-02 Original Sample (OS) • Duplicate (DUP)

(OS) L916341-02 06/19/17 10:23 • (DUP) R3226916-3 06/19/17 10:23

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	73.1	73.2	1	0.124		5

Laboratory Control Sample (LCS)

(LCS) R3226916-2 06/19/17 10:23

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3227137-3 06/20/17 11:50

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acetone	U		0.0100	0.0500
Acrylonitrile	U		0.00179	0.0100
Benzene	U		0.000270	0.00100
Bromobenzene	U		0.000284	0.00100
Bromodichloromethane	U		0.000254	0.00100
Bromoform	U		0.000424	0.00100
Bromomethane	U		0.00134	0.00500
n-Butylbenzene	U		0.000258	0.00100
sec-Butylbenzene	U		0.000201	0.00100
tert-Butylbenzene	U		0.000206	0.00100
Carbon tetrachloride	U		0.000328	0.00100
Chlorobenzene	U		0.000212	0.00100
Chlorodibromomethane	U		0.000373	0.00100
Chloroethane	U		0.000946	0.00500
Chloroform	U		0.000229	0.00500
Chloromethane	U		0.000375	0.00250
2-Chlorotoluene	U		0.000301	0.00100
4-Chlorotoluene	U		0.000240	0.00100
1,2-Dibromo-3-Chloropropane	U		0.00105	0.00500
1,2-Dibromoethane	U		0.000343	0.00100
Dibromomethane	U		0.000382	0.00100
1,2-Dichlorobenzene	U		0.000305	0.00100
1,3-Dichlorobenzene	U		0.000239	0.00100
1,4-Dichlorobenzene	U		0.000226	0.00100
Dichlorodifluoromethane	U		0.000713	0.00500
1,1-Dichloroethane	U		0.000199	0.00100
1,2-Dichloroethane	U		0.000265	0.00100
1,1-Dichloroethene	U		0.000303	0.00100
cis-1,2-Dichloroethene	U		0.000235	0.00100
trans-1,2-Dichloroethene	U		0.000264	0.00100
1,2-Dichloropropane	U		0.000358	0.00100
1,1-Dichloropropene	U		0.000317	0.00100
1,3-Dichloropropane	U		0.000207	0.00100
cis-1,3-Dichloropropene	U		0.000262	0.00100
trans-1,3-Dichloropropene	U		0.000267	0.00100
2,2-Dichloropropane	U		0.000279	0.00100
Di-isopropyl ether	U		0.000248	0.00100
Ethylbenzene	U		0.000297	0.00100
Hexachloro-1,3-butadiene	U		0.000342	0.00100
Isopropylbenzene	U		0.000243	0.00100

Method Blank (MB)

(MB) R3227137-3 06/20/17 11:50

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
p-Isopropyltoluene	U		0.000204	0.00100
2-Butanone (MEK)	U		0.00468	0.0100
Methylene Chloride	0.00152	J	0.00100	0.00500
4-Methyl-2-pentanone (MIBK)	U		0.00188	0.0100
Methyl tert-butyl ether	U		0.000212	0.00100
Naphthalene	U		0.00100	0.00500
n-Propylbenzene	U		0.000206	0.00100
Styrene	U		0.000234	0.00100
1,1,1,2-Tetrachloroethane	U		0.000264	0.00100
1,1,2,2-Tetrachloroethane	U		0.000365	0.00100
Tetrachloroethene	U		0.000276	0.00100
Toluene	U		0.000434	0.00500
1,1,2-Trichlorotrifluoroethane	U		0.000365	0.00100
1,2,3-Trichlorobenzene	U		0.000306	0.00100
1,2,4-Trichlorobenzene	U		0.000388	0.00100
1,1,1-Trichloroethane	U		0.000286	0.00100
1,1,2-Trichloroethane	U		0.000277	0.00100
Trichloroethene	U		0.000279	0.00100
Trichlorofluoromethane	U		0.000382	0.00500
1,2,3-Trichloropropane	U		0.000741	0.00250
1,2,3-Trimethylbenzene	U		0.000287	0.00100
1,2,4-Trimethylbenzene	U		0.000211	0.00100
1,3,5-Trimethylbenzene	U		0.000266	0.00100
Vinyl chloride	U		0.000291	0.00100
Xylenes, Total	U		0.000698	0.00300
(S) Toluene-d8	*102*			*80.0-120*
(S) Dibromofluoromethane	*111*			*74.0-131*
(S) 4-Bromofluorobenzene	*97.3*			*64.0-132*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3227137-1 06/20/17 10:42 • (LCSD) R3227137-2 06/20/17 11:05

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	0.125	0.131	0.137	105	110	11.0-160			5.00	23
Acrylonitrile	0.125	0.115	0.119	92.4	95.0	61.0-143			2.86	20
Benzene	0.0250	0.0299	0.0291	119	117	71.0-124			2.47	20
Bromobenzene	0.0250	0.0251	0.0245	100	98.1	78.0-120			2.09	20
Bromodichloromethane	0.0250	0.0252	0.0251	101	101	75.0-120			0.0700	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3227137-1 06/20/17 10:42 • (LCSD) R3227137-2 06/20/17 11:05

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Bromoform	0.0250	0.0220	0.0231	88.1	92.4	65.0-133			4.74	20
Bromomethane	0.0250	0.0295	0.0288	118	115	26.0-160			2.42	20
n-Butylbenzene	0.0250	0.0278	0.0267	111	107	73.0-126			4.01	20
sec-Butylbenzene	0.0250	0.0268	0.0264	107	106	75.0-121			1.74	20
tert-Butylbenzene	0.0250	0.0260	0.0255	104	102	74.0-122			1.92	20
Carbon tetrachloride	0.0250	0.0277	0.0272	111	109	66.0-123			1.71	20
Chlorobenzene	0.0250	0.0268	0.0265	107	106	79.0-121			1.03	20
Chlorodibromomethane	0.0250	0.0240	0.0241	95.9	96.4	74.0-128			0.470	20
Chloroethane	0.0250	0.0296	0.0285	118	114	51.0-147			3.50	20
Chloroform	0.0250	0.0290	0.0290	116	116	73.0-123			0.120	20
Chloromethane	0.0250	0.0244	0.0236	97.6	94.4	51.0-138			3.27	20
2-Chlorotoluene	0.0250	0.0263	0.0260	105	104	72.0-124			1.14	20
4-Chlorotoluene	0.0250	0.0263	0.0261	105	105	78.0-120			0.560	20
1,2-Dibromo-3-Chloropropane	0.0250	0.0210	0.0209	83.9	83.7	65.0-126			0.210	20
1,2-Dibromoethane	0.0250	0.0243	0.0254	97.4	102	78.0-122			4.20	20
Dibromomethane	0.0250	0.0253	0.0261	101	104	79.0-120			3.14	20
1,2-Dichlorobenzene	0.0250	0.0262	0.0255	105	102	80.0-120			2.46	20
1,3-Dichlorobenzene	0.0250	0.0256	0.0253	102	101	72.0-123			1.17	20
1,4-Dichlorobenzene	0.0250	0.0257	0.0252	103	101	77.0-120			1.87	20
Dichlorodifluoromethane	0.0250	0.0241	0.0234	96.3	93.5	49.0-155			3.03	20
1,1-Dichloroethane	0.0250	0.0287	0.0282	115	113	70.0-128			1.70	20
1,2-Dichloroethane	0.0250	0.0241	0.0244	96.5	97.4	69.0-128			0.910	20
1,1-Dichloroethene	0.0250	0.0309	0.0305	124	122	63.0-131			1.43	20
cis-1,2-Dichloroethene	0.0250	0.0309	0.0307	124	123	74.0-123	J4		0.910	20
trans-1,2-Dichloroethene	0.0250	0.0308	0.0302	123	121	72.0-122	J4		1.90	20
1,2-Dichloropropane	0.0250	0.0249	0.0252	99.5	101	75.0-126			1.19	20
1,1-Dichloropropene	0.0250	0.0296	0.0294	118	118	72.0-130			0.720	20
1,3-Dichloropropane	0.0250	0.0246	0.0249	98.4	99.7	80.0-121			1.29	20
cis-1,3-Dichloropropene	0.0250	0.0249	0.0251	99.7	100	80.0-125			0.810	20
trans-1,3-Dichloropropene	0.0250	0.0234	0.0241	93.5	96.6	75.0-129			3.23	20
2,2-Dichloropropane	0.0250	0.0289	0.0282	116	113	60.0-129			2.38	20
Di-isopropyl ether	0.0250	0.0234	0.0235	93.6	94.2	62.0-133			0.610	20
Ethylbenzene	0.0250	0.0269	0.0263	108	105	77.0-120			2.37	20
Hexachloro-1,3-butadiene	0.0250	0.0247	0.0236	99.0	94.5	68.0-128			4.59	20
Isopropylbenzene	0.0250	0.0264	0.0258	106	103	75.0-120			2.12	20
p-Isopropyltoluene	0.0250	0.0258	0.0256	103	102	74.0-125			0.580	20
2-Butanone (MEK)	0.125	0.0839	0.0885	67.1	70.8	37.0-159			5.40	20
Methylene Chloride	0.0250	0.0278	0.0271	111	108	67.0-123			2.41	20
4-Methyl-2-pentanone (MIBK)	0.125	0.0825	0.0879	66.0	70.3	60.0-144			6.36	20
Methyl tert-butyl ether	0.0250	0.0276	0.0279	110	112	66.0-125			1.13	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3227137-1 06/20/17 10:42 • (LCSD) R3227137-2 06/20/17 11:05

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Naphthalene	0.0250	0.0226	0.0230	90.4	92.0	64.0-125			1.67	20
n-Propylbenzene	0.0250	0.0272	0.0264	109	106	78.0-120			2.89	20
Styrene	0.0250	0.0232	0.0230	92.9	92.1	78.0-124			0.910	20
1,1,1,2-Tetrachloroethane	0.0250	0.0254	0.0253	102	101	74.0-124			0.390	20
1,1,2,2-Tetrachloroethane	0.0250	0.0230	0.0241	91.9	96.3	73.0-120			4.62	20
Tetrachloroethene	0.0250	0.0247	0.0247	98.8	98.7	70.0-127			0.0400	20
Toluene	0.0250	0.0260	0.0263	104	105	77.0-120			0.930	20
1,1,2-Trichlorotrifluoroethane	0.0250	0.0309	0.0302	124	121	64.0-135			2.33	20
1,2,3-Trichlorobenzene	0.0250	0.0240	0.0243	96.1	97.2	68.0-126			1.18	20
1,2,4-Trichlorobenzene	0.0250	0.0239	0.0238	95.8	95.2	70.0-127			0.550	20
1,1,1-Trichloroethane	0.0250	0.0288	0.0283	115	113	69.0-125			1.67	20
1,1,2-Trichloroethane	0.0250	0.0245	0.0254	98.1	101	78.0-120			3.36	20
Trichloroethene	0.0250	0.0268	0.0270	107	108	79.0-120			0.570	20
Trichlorofluoromethane	0.0250	0.0309	0.0303	124	121	59.0-136			1.94	20
1,2,3-Trichloropropane	0.0250	0.0224	0.0225	89.7	89.9	73.0-124			0.220	20
1,2,3-Trimethylbenzene	0.0250	0.0270	0.0263	108	105	76.0-120			2.73	20
1,2,4-Trimethylbenzene	0.0250	0.0261	0.0258	105	103	75.0-120			1.24	20
1,3,5-Trimethylbenzene	0.0250	0.0260	0.0256	104	102	75.0-120			1.78	20
Vinyl chloride	0.0250	0.0275	0.0271	110	108	63.0-134			1.57	20
Xylenes, Total	0.0750	0.0812	0.0789	108	105	77.0-120			2.87	20
(S) Toluene-d8				*100*	*100*	*80.0-120*				
(S) Dibromofluoromethane				*112*	*109*	*74.0-131*				
(S) 4-Bromofluorobenzene				*96.0*	*94.2*	*64.0-132*				

Method Blank (MB)

(MB) R3226825-3 06/19/17 11:36

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Aldrin	U		0.00135	0.0200
Alpha BHC	U		0.00136	0.0200
Beta BHC	U		0.00160	0.0200
Delta BHC	U		0.00143	0.0200
Gamma BHC	U		0.00145	0.0200
4,4-DDD	U		0.00156	0.0200
4,4-DDE	U		0.00154	0.0200
4,4-DDT	U		0.00200	0.0200
Dieldrin	U		0.00152	0.0200
Endosulfan I	U		0.00149	0.0200
Endosulfan II	U		0.00160	0.0200
Endosulfan sulfate	U		0.00151	0.0200
Endrin	U		0.00157	0.0200
Endrin aldehyde	U		0.00129	0.0200
Endrin ketone	U		0.00165	0.0200
Heptachlor	U		0.00154	0.0200
Heptachlor epoxide	U		0.00161	0.0200
Hexachlorobenzene	U		0.00124	0.0200
Methoxychlor	U		0.00178	0.0200
Chlordane	U		0.0390	0.200
Toxaphene	U		0.0360	0.400
(S) Decachlorobiphenyl	*92.5*			*10.0-148*
(S) Tetrachloro-m-xylene	*80.2*			*21.0-146*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3226825-1 06/19/17 11:11 • (LCSD) R3226825-2 06/19/17 11:24

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Aldrin	0.0667	0.0594	0.0640	89.1	96.0	55.0-137			7.50	29
Alpha BHC	0.0667	0.0593	0.0633	88.8	94.8	55.0-136			6.54	28
Beta BHC	0.0667	0.0532	0.0566	79.7	84.8	53.0-133			6.21	28
Delta BHC	0.0667	0.0557	0.0593	83.4	88.9	53.0-139			6.27	29
Gamma BHC	0.0667	0.0579	0.0620	86.8	92.9	54.0-136			6.83	29
4,4-DDD	0.0667	0.0635	0.0700	95.1	105	51.0-141			9.79	29
4,4-DDE	0.0667	0.0607	0.0666	91.0	99.8	53.0-142			9.17	30
4,4-DDT	0.0667	0.0574	0.0641	86.0	96.1	47.0-143			11.1	30
Dieldrin	0.0667	0.0613	0.0671	91.9	101	54.0-141			8.96	29
Endosulfan I	0.0667	0.0579	0.0622	86.9	93.2	54.0-141			7.07	29

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3226825-1 06/19/17 11:11 • (LCSD) R3226825-2 06/19/17 11:24

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Endosulfan II	0.0667	0.0598	0.0654	89.7	98.1	53.0-140			8.98	28
Endosulfan sulfate	0.0667	0.0615	0.0678	92.2	102	52.0-141			9.65	29
Endrin	0.0667	0.0594	0.0645	89.0	96.7	52.0-137			8.25	29
Endrin aldehyde	0.0667	0.0443	0.0489	66.4	73.3	30.0-127			9.81	31
Endrin ketone	0.0667	0.0749	0.0832	112	125	51.0-139			10.6	28
Heptachlor	0.0667	0.0583	0.0626	87.4	93.9	53.0-144			7.15	29
Heptachlor epoxide	0.0667	0.0580	0.0627	86.9	94.0	54.0-137			7.91	28
Hexachlorobenzene	0.0667	0.0536	0.0573	80.4	85.9	50.0-135			6.60	28
Methoxychlor	0.0667	0.0674	0.0752	101	113	49.0-145			10.9	29
(S) Decachlorobiphenyl				*88.2*	*99.2*	*10.0-148*				
(S) Tetrachloro-m-xylene				*78.4*	*82.1*	*21.0-146*				

Method Blank (MB)

(MB) R3226933-1 06/19/17 11:25

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
PCB 1016	U		0.00350	0.0170
PCB 1221	U		0.00537	0.0170
PCB 1232	U		0.00417	0.0170
PCB 1242	U		0.00318	0.0170
PCB 1248	U		0.00315	0.0170
PCB 1254	U		0.00472	0.0170
PCB 1260	U		0.00494	0.0170
(S) Decachlorobiphenyl	*137*			*10.0-148*
(S) Tetrachloro-m-xylene	*102*			*21.0-146*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3226933-2 06/19/17 11:39 • (LCSD) R3226933-3 06/19/17 11:54

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
PCB 1260	0.167	0.205	0.166	123	99.4	37.0-145			21.0	37
PCB 1016	0.167	0.164	0.141	98.6	84.7	36.0-141			15.1	35
(S) Decachlorobiphenyl				*138*	*102*	*10.0-148*				
(S) Tetrachloro-m-xylene				*96.6*	*78.8*	*21.0-146*				

L915613-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L915613-03 06/19/17 12:22 • (MS) R3226933-4 06/19/17 12:36 • (MSD) R3226933-5 06/19/17 12:51

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
PCB 1260	0.170	ND	0.161	0.174	94.8	103	1	10.0-160	P	P	8.15	31
PCB 1016	0.170	ND	0.132	0.143	78.0	84.6	1	17.0-160			8.18	30
(S) Decachlorobiphenyl					*102*	*102*		*10.0-148*				
(S) Tetrachloro-m-xylene					*79.5*	*80.9*		*21.0-146*				

Method Blank (MB)

(MB) R3227095-3 06/20/17 10:12

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acenaphthene	U		0.00642	0.0330
Acenaphthylene	U		0.00671	0.0330
Anthracene	U		0.00632	0.0330
Benzidine	U		0.0637	0.333
Benzo(a)anthracene	U		0.00428	0.0330
Benzo(b)fluoranthene	U		0.00695	0.0330
Benzo(k)fluoranthene	U		0.00582	0.0330
Benzo(g,h,i)perylene	U		0.00721	0.0330
Benzo(a)pyrene	U		0.00548	0.0330
Bis(2-chlorethoxy)methane	U		0.00770	0.333
Bis(2-chloroethyl)ether	U		0.00896	0.333
Bis(2-chloroisopropyl)ether	U		0.00760	0.333
4-Bromophenyl-phenylether	U		0.0114	0.333
2-Chloronaphthalene	U		0.00639	0.0330
4-Chlorophenyl-phenylether	U		0.00627	0.333
Chrysene	U		0.00555	0.0330
Dibenz(a,h)anthracene	U		0.00821	0.0330
3,3-Dichlorobenzidine	U		0.0794	0.333
2,4-Dinitrotoluene	U		0.00607	0.333
2,6-Dinitrotoluene	U		0.00737	0.333
Fluoranthene	U		0.00496	0.0330
Fluorene	U		0.00682	0.0330
Hexachlorobenzene	U		0.00856	0.333
Hexachloro-1,3-butadiene	U		0.0100	0.333
Hexachlorocyclopentadiene	U		0.0587	0.333
Hexachloroethane	U		0.0134	0.333
Indeno(1,2,3-cd)pyrene	U		0.00772	0.0330
Isophorone	U		0.00522	0.333
Naphthalene	U		0.00889	0.0330
Nitrobenzene	U		0.00695	0.333
n-Nitrosodimethylamine	U		0.0647	0.333
n-Nitrosodiphenylamine	U		0.00594	0.333
n-Nitrosodi-n-propylamine	U		0.00906	0.333
Phenanthrene	U		0.00528	0.0330
Benzylbutyl phthalate	U		0.0103	0.333
Bis(2-ethylhexyl)phthalate	U		0.0120	0.333
Di-n-butyl phthalate	U		0.0109	0.333
Diethyl phthalate	U		0.00691	0.333
Dimethyl phthalate	U		0.00540	0.333
Di-n-octyl phthalate	U		0.00907	0.333

Method Blank (MB)

(MB) R3227095-3 06/20/17 10:12

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Pyrene	U		0.0123	0.0330
1,2,4-Trichlorobenzene	U		0.00876	0.333
4-Chloro-3-methylphenol	U		0.00477	0.333
2-Chlorophenol	U		0.00831	0.333
2,4-Dichlorophenol	U		0.00746	0.333
2,4-Dimethylphenol	U		0.0471	0.333
4,6-Dinitro-2-methylphenol	U		0.124	0.333
2,4-Dinitrophenol	U		0.0980	0.333
2-Nitrophenol	U		0.0130	0.333
4-Nitrophenol	U		0.0525	0.333
Pentachlorophenol	U		0.0480	0.333
Phenol	U		0.00695	0.333
2,4,6-Trichlorophenol	U		0.00779	0.333
(S) Nitrobenzene-d5	*63.6*			*18.0-125*
(S) 2-Fluorobiphenyl	*71.2*			*28.0-120*
(S) p-Terphenyl-d14	*86.4*			*13.0-131*
(S) Phenol-d5	*67.3*			*20.0-120*
(S) 2-Fluorophenol	*58.0*			*20.0-120*
(S) 2,4,6-Tribromophenol	*71.9*			*17.0-137*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3227095-1 06/20/17 09:21 • (LCSD) R3227095-2 06/20/17 09:46

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acenaphthene	0.667	0.495	0.509	74.3	76.3	47.0-120			2.68	21
Acenaphthylene	0.667	0.532	0.544	79.8	81.5	48.0-120			2.14	21
Anthracene	0.667	0.518	0.522	77.7	78.2	46.0-120			0.620	20
Benzidine	0.667	0.649	0.880	97.3	132	1.00-120		J4	30.2	36
Benzo(a)anthracene	0.667	0.519	0.528	77.8	79.2	46.0-120			1.82	20
Benzo(b)fluoranthene	0.667	0.531	0.549	79.6	82.4	45.0-120			3.46	22
Benzo(k)fluoranthene	0.667	0.524	0.535	78.6	80.3	45.0-120			2.11	23
Benzo(g,h,i)perylene	0.667	0.574	0.639	86.0	95.8	48.0-120			10.7	21
Benzo(a)pyrene	0.667	0.534	0.549	80.1	82.3	46.0-120			2.78	21
Bis(2-chlorethoxy)methane	0.667	0.361	0.370	54.1	55.5	41.0-120			2.52	22
Bis(2-chloroethyl)ether	0.667	0.443	0.414	66.4	62.1	28.0-120			6.67	28
Bis(2-chloroisopropyl)ether	0.667	0.458	0.472	68.7	70.7	40.0-120			2.91	27
4-Bromophenyl-phenylether	0.667	0.503	0.504	75.4	75.6	45.0-120			0.300	20
2-Chloronaphthalene	0.667	0.482	0.517	72.3	77.4	43.0-120			6.83	22

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3227095-1 06/20/17 09:21 • (LCSD) R3227095-2 06/20/17 09:46

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
4-Chlorophenyl-phenylether	0.667	0.490	0.504	73.5	75.5	46.0-120			2.74	21
Chrysene	0.667	0.515	0.522	77.3	78.3	46.0-120			1.31	20
Dibenz(a,h)anthracene	0.667	0.516	0.617	77.4	92.5	47.0-120			17.7	22
3,3-Dichlorobenzidine	0.667	1.56	1.62	234	243	20.0-130	J4	J4	3.77	24
2,4-Dinitrotoluene	0.667	0.552	0.580	82.8	87.0	48.0-122			4.90	21
2,6-Dinitrotoluene	0.667	0.523	0.535	78.4	80.2	46.0-120			2.28	21
Fluoranthene	0.667	0.487	0.576	73.0	86.4	46.0-120			16.7	20
Fluorene	0.667	0.508	0.528	76.1	79.1	47.0-120			3.88	20
Hexachlorobenzene	0.667	0.478	0.502	71.6	75.3	42.0-120			5.06	20
Hexachloro-1,3-butadiene	0.667	0.358	0.359	53.7	53.8	36.0-120			0.170	26
Hexachlorocyclopentadiene	0.667	0.443	0.473	66.4	70.9	20.0-124			6.65	26
Hexachloroethane	0.667	0.422	0.421	63.3	63.1	32.0-120			0.270	31
Indeno(1,2,3-cd)pyrene	0.667	0.542	0.647	81.3	96.9	48.0-120			17.5	21
Isophorone	0.667	0.376	0.373	56.4	55.9	42.0-120			0.850	21
Naphthalene	0.667	0.356	0.371	53.4	55.6	41.0-120			3.95	24
Nitrobenzene	0.667	0.349	0.333	52.3	49.9	36.0-120			4.85	24
n-Nitrosodimethylamine	0.667	0.411	0.395	61.7	59.3	20.0-120			3.98	31
n-Nitrosodiphenylamine	0.667	0.492	0.502	73.8	75.3	42.0-120			2.05	20
n-Nitrosodi-n-propylamine	0.667	0.451	0.471	67.6	70.5	39.0-120			4.19	23
Phenanthrene	0.667	0.509	0.507	76.3	75.9	45.0-120			0.510	20
Benzylbutyl phthalate	0.667	0.521	0.561	78.1	84.1	41.0-123			7.35	20
Bis(2-ethylhexyl)phthalate	0.667	0.540	0.544	81.0	81.5	41.0-124			0.670	20
Di-n-butyl phthalate	0.667	0.490	0.549	73.5	82.3	44.0-120			11.3	20
Diethyl phthalate	0.667	0.515	0.520	77.2	77.9	46.0-120			0.970	20
Dimethyl phthalate	0.667	0.502	0.541	75.2	81.1	47.0-120			7.53	21
Di-n-octyl phthalate	0.667	0.557	0.559	83.5	83.8	40.0-123			0.320	21
Pyrene	0.667	0.483	0.545	72.4	81.7	45.0-120			12.0	21
1,2,4-Trichlorobenzene	0.667	0.374	0.375	56.1	56.2	40.0-120			0.270	25
4-Chloro-3-methylphenol	0.667	0.413	0.412	61.9	61.7	46.0-120			0.280	20
2-Chlorophenol	0.667	0.458	0.454	68.6	68.0	37.0-120			0.900	27
2,4-Dichlorophenol	0.667	0.382	0.399	57.3	59.8	45.0-120			4.39	21
2,4-Dimethylphenol	0.667	0.361	0.374	54.2	56.1	40.0-120			3.58	22
4,6-Dinitro-2-methylphenol	0.667	0.447	0.386	67.0	57.9	34.0-120			14.5	23
2,4-Dinitrophenol	0.667	0.306	0.220	45.9	33.0	10.0-120		J3	32.8	30
2-Nitrophenol	0.667	0.420	0.411	63.0	61.6	42.0-120			2.28	24
4-Nitrophenol	0.667	0.526	0.522	78.8	78.3	40.0-120			0.620	21
Pentachlorophenol	0.667	0.391	0.417	58.7	62.5	33.0-122			6.36	22
Phenol	0.667	0.475	0.472	71.2	70.8	38.0-120			0.530	25
2,4,6-Trichlorophenol	0.667	0.498	0.550	74.6	82.5	47.0-120			10.0	22
(S) Nitrobenzene-d5				*56.7*	*52.6*	*18.0-125*				

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3227095-1 06/20/17 09:21 • (LCSD) R3227095-2 06/20/17 09:46

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
(S) 2-Fluorobiphenyl				*72.2*	*76.3*	*28.0-120*				
(S) p-Terphenyl-d14				*75.6*	*84.4*	*13.0-131*				
(S) Phenol-d5				*75.4*	*73.3*	*20.0-120*				
(S) 2-Fluorophenol				*75.5*	*72.4*	*20.0-120*				
(S) 2,4,6-Tribromophenol				*83.8*	*87.5*	*17.0-137*				

Abbreviations and Definitions

SDG	Sample Delivery Group.
MDL	Method Detection Limit.
MDL (dry)	Method Detection Limit.
RDL (dry)	Reported Detection Limit.
RDL	Reported Detection Limit.
U	Not detected at the Reporting Limit (or MDL where applicable).
RPD	Relative Percent Difference.
(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
Rec.	Recovery.

Qualifier	Description
J	The identification of the analyte is acceptable; the reported value is an estimate.
J0	J0: Calibration verification outside of acceptance limits. Result is estimated.
J3	The associated batch QC was outside the established quality control range for precision.
J4	The associated batch QC was outside the established quality control range for accuracy.
P	RPD between the primary and confirmatory analysis exceeded 40%.

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* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

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California	01157CA	New York	11742
Colorado	TN00003	North Carolina	Env375
Conneticut	PH-0197	North Carolina [1]	DW21704
Florida	E87487	North Carolina [2]	41
Georgia	NELAP	North Dakota	R-140
Georgia [1]	923	Ohio–VAP	CL0069
Idaho	TN00003	Oklahoma	9915
Illinois	200008	Oregon	TN200002
Indiana	C-TN-01	Pennsylvania	68-02979
Iowa	364	Rhode Island	221
Kansas	E-10277	South Carolina	84004
Kentucky [1]	90010	South Dakota	n/a
Kentucky [2]	16	Tennessee [1 4]	2006
Louisiana	AI30792	Texas	T 104704245-07-TX
Maine	TN0002	Texas [5]	LAB0152
Maryland	324	Utah	6157585858
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	109
Minnesota	047-999-395	Washington	C1915
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA
Nebraska	NE-OS-15-05		

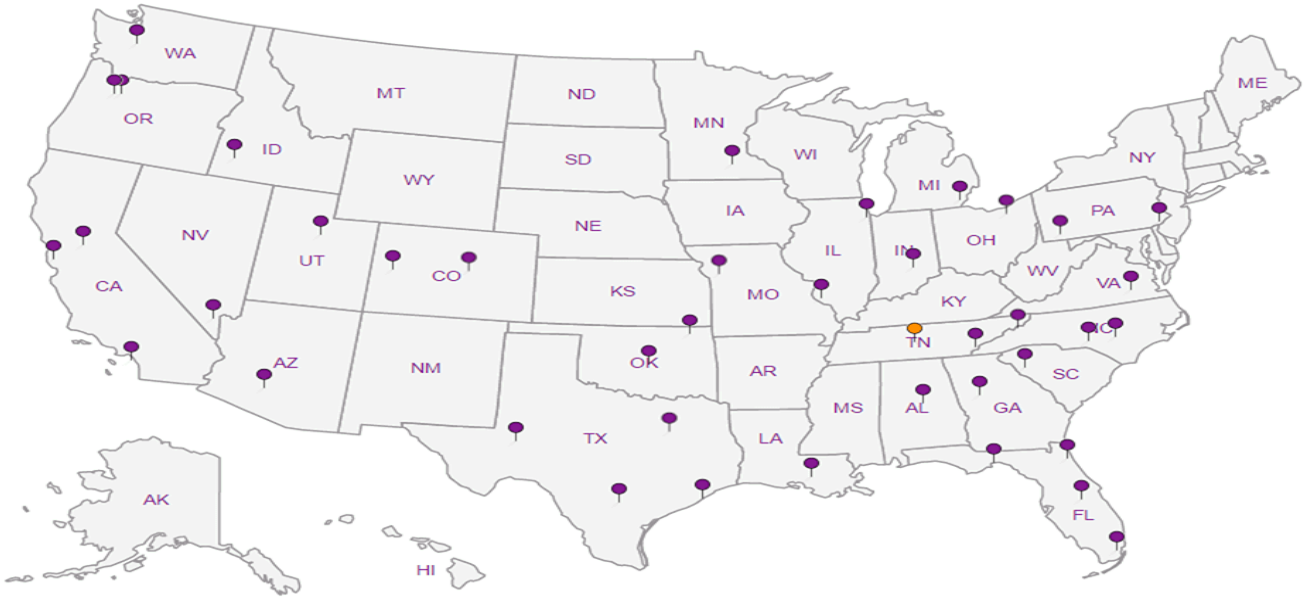
Third Party & Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	S-67674
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [n/a] Accreditation not applicable

Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. **ESC Lab Sciences performs all testing at our central laboratory.**



Remedial Construction Services, L.P.

950 West Valley Rd.
Suite 2802
Wayne, PA 19087

Billing Information:
Accounts Payable
950 West Valley Rd., Ste. 2802
Wayne, PA 19087

Pres Chk

Report to: ~~Mr. Richard Badis~~ KYLE SNYDER

Email To: ~~richard.badis@rsconservices.com~~ kyle.snyder@rsconservices.com

Project Description: **Elmira, NY**

City/State Collected: ELMIRA/NY

Phone: ~~484-367-5400~~
Fax: 713-906-2590

Client Project # 23925

Lab Project # REMCONWPA-060117S

Collected by (print): KYLE SNYDER

Site/Facility ID #

P.O. # 23925-0007

Collected by (signature):

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
X Three Day

Quote #

Date Results Needed

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	SV8081/8082,SV8270D 4ozClr-NoPres	SV8270D 4ozClr-NoPres	TS 2ozClr-NoPres	V8260C 40ml/NaHSO4/Syr/MeOH	VOC Screen 2ozClr-NoPres	Remarks	Sample # (lab only)
BREWERS_PIT_1		SS		6-14-17		6	X		X	X	X		-01
BREWERS_PIT_2		SS		6-14-17		6	X		X	X	X		02
BREWERS_PIT_3		SS		6-14-17		6		X	X	X	X		03
BREWERS_PIT_4		SS		6-14-17		6		X	X	X	X		04
BREWERS_PIT_5		SS		6-14-17		6		X	X	X	X		05
BREWERS_PIT_6		SS		6-14-17		6		X	X	X	X		06
BREWERS_PIT_7		SS		6-14-17		6		X	X	X	X		07

Analysis / Container / Preservative

Chain of Custody Page ___ of ___

ESC LABORATORY SCIENCES
YOUR LAB OF CHOICE
12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# L916338
D153

Acctnum: REMCONWPA
Template: T124625
Prelogin: P606085
TSR: 364 - T. Alan Harvill
PB:
Shipped Via: FedEX Priority

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx X Courier __ _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
	6-14-17	5:45PM	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)

Trip Blank Received: Yes / No
HCL / MeoH
TBR

Temp: 5.3 WT °C Bottles Received: 42

Date: 6-15-17 Time: 845

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

ANALYTICAL REPORT

June 23, 2017

Remedial Construction Services, L.P.

Sample Delivery Group:	L917680
Samples Received:	06/15/2017
Project Number:	23925
Description:	Elmira, NY

Report To:

Mr. John Geary
950 West Valley Rd.
Suite 2802
Wayne, PA 19087

Entire Report Reviewed By:

T. Alan Harvill
Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



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BREWERS_PIT_1 L917680-01 Solid

Collected by: Kyle Snyder
Collected date/time: 06/14/17 00:00
Received date/time: 06/15/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Calculated Results	WG991813	1	06/22/17 10:41	06/23/17 10:56	JD
Total Solids by Method 2540 G-2011	WG990357	1	06/17/17 12:08	06/17/17 12:20	KDW
Wet Chemistry by Method 3060A/7196A	WG991554	1	06/22/17 14:16	06/23/17 10:56	MA
Wet Chemistry by Method 9012B	WG991738	1	06/22/17 12:17	06/22/17 18:17	ASK
Mercury by Method 7471A	WG991670	1	06/22/17 14:38	06/23/17 10:38	EL
Metals (ICP) by Method 6010B	WG991813	1	06/22/17 10:41	06/22/17 16:14	JD

BREWERS_PIT_2 L917680-02 Solid

Collected by: Kyle Snyder
Collected date/time: 06/14/17 00:00
Received date/time: 06/15/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Calculated Results	WG991813	1	06/22/17 10:41	06/23/17 10:57	JD
Total Solids by Method 2540 G-2011	WG990405	1	06/19/17 08:35	06/19/17 08:55	KDW
Wet Chemistry by Method 3060A/7196A	WG991554	1	06/22/17 14:16	06/23/17 10:57	MA
Wet Chemistry by Method 9012B	WG991738	1	06/22/17 12:17	06/22/17 18:18	ASK
Mercury by Method 7471A	WG991670	1	06/22/17 14:38	06/23/17 10:40	EL
Metals (ICP) by Method 6010B	WG991813	1	06/22/17 10:41	06/22/17 16:22	JD

BREWERS_PIT_3 L917680-03 Solid

Collected by: Kyle Snyder
Collected date/time: 06/14/17 00:00
Received date/time: 06/15/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Calculated Results	WG991813	1	06/22/17 10:41	06/23/17 10:57	JD
Total Solids by Method 2540 G-2011	WG990405	1	06/19/17 08:35	06/19/17 08:55	KDW
Wet Chemistry by Method 3060A/7196A	WG991554	1	06/22/17 14:16	06/23/17 10:57	MA
Wet Chemistry by Method 9012B	WG991738	1	06/22/17 12:17	06/22/17 18:19	ASK
Mercury by Method 7471A	WG991670	1	06/22/17 14:38	06/23/17 10:43	EL
Metals (ICP) by Method 6010B	WG991813	1	06/22/17 10:41	06/22/17 16:25	JD

BREWERS_PIT_4 L917680-04 Solid

Collected by: Kyle Snyder
Collected date/time: 06/14/17 00:00
Received date/time: 06/15/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Calculated Results	WG991813	1	06/22/17 10:41	06/23/17 10:58	JD
Total Solids by Method 2540 G-2011	WG990405	1	06/19/17 08:35	06/19/17 08:55	KDW
Wet Chemistry by Method 3060A/7196A	WG991554	1	06/22/17 14:16	06/23/17 10:58	MA
Wet Chemistry by Method 9012B	WG991738	1	06/22/17 12:17	06/22/17 18:20	ASK
Mercury by Method 7471A	WG991670	1	06/22/17 14:38	06/23/17 10:45	EL
Metals (ICP) by Method 6010B	WG991813	1	06/22/17 10:41	06/22/17 16:27	JD

BREWERS_PIT_5 L917680-05 Solid

Collected by: Kyle Snyder
Collected date/time: 06/14/17 00:00
Received date/time: 06/15/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Calculated Results	WG991813	1	06/22/17 10:41	06/23/17 10:58	JD
Total Solids by Method 2540 G-2011	WG990405	1	06/19/17 08:35	06/19/17 08:55	KDW
Wet Chemistry by Method 3060A/7196A	WG991554	1	06/22/17 14:16	06/23/17 10:58	MA
Wet Chemistry by Method 9012B	WG991738	1	06/22/17 12:17	06/22/17 18:22	ASK
Mercury by Method 7471A	WG991670	1	06/22/17 14:38	06/23/17 10:52	EL
Metals (ICP) by Method 6010B	WG991813	1	06/22/17 10:41	06/22/17 16:30	JD

BREWERS_PIT_6 L917680-06 Solid

Collected by: Kyle Snyder
Collected date/time: 06/14/17 00:00
Received date/time: 06/15/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Calculated Results	WG991813	1	06/22/17 10:41	06/23/17 10:59	JD
Total Solids by Method 2540 G-2011	WG990405	1	06/19/17 08:35	06/19/17 08:55	KDW
Wet Chemistry by Method 3060A/7196A	WG991554	1	06/22/17 14:16	06/23/17 10:59	MA
Wet Chemistry by Method 9012B	WG991738	1	06/22/17 12:17	06/22/17 18:23	ASK
Mercury by Method 7471A	WG991670	1	06/22/17 14:38	06/23/17 10:55	EL
Metals (ICP) by Method 6010B	WG991813	1	06/22/17 10:41	06/22/17 16:33	JD

BREWERS_PIT_7 L917680-07 Solid

Collected by: Kyle Snyder
Collected date/time: 06/14/17 00:00
Received date/time: 06/15/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Calculated Results	WG991813	1	06/22/17 10:41	06/23/17 11:00	JD
Total Solids by Method 2540 G-2011	WG990406	1	06/19/17 10:09	06/19/17 10:23	KDW
Wet Chemistry by Method 3060A/7196A	WG991554	1	06/22/17 14:16	06/23/17 11:00	MA
Wet Chemistry by Method 9012B	WG991738	1	06/22/17 12:17	06/22/17 18:24	ASK
Mercury by Method 7471A	WG991670	1	06/22/17 14:38	06/23/17 10:57	EL
Metals (ICP) by Method 6010B	WG991813	1	06/22/17 10:41	06/22/17 16:36	JD

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. All MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



T. Alan Harvill
Technical Service Representative

Calculated Results

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chromium,Trivalent	7.11		0.148	1.06	1	06/23/2017 10:56	WG991813

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	94.7		1	06/17/2017 12:20	WG990357

Wet Chemistry by Method 3060A/7196A

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chromium,Hexavalent	U		0.676	2.11	1	06/23/2017 10:56	WG991554

Wet Chemistry by Method 9012B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Cyanide	U		0.0412	0.264	1	06/22/2017 18:17	WG991738

Mercury by Method 7471A

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Mercury	0.00723	J	0.00296	0.0211	1	06/23/2017 10:38	WG991670

Metals (ICP) by Method 6010B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Arsenic	2.38		0.686	2.11	1	06/22/2017 16:14	WG991813
Barium	47.4		0.180	0.528	1	06/22/2017 16:14	WG991813
Beryllium	0.273		0.0739	0.211	1	06/22/2017 16:14	WG991813
Cadmium	U		0.0739	0.528	1	06/22/2017 16:14	WG991813
Chromium	7.11		0.148	1.06	1	06/22/2017 16:14	WG991813
Copper	20.3		0.560	2.11	1	06/22/2017 16:14	WG991813
Lead	8.70		0.201	0.528	1	06/22/2017 16:14	WG991813
Manganese	344		0.127	1.06	1	06/22/2017 16:14	WG991813
Nickel	13.2		0.517	2.11	1	06/22/2017 16:14	WG991813
Silver	U		0.296	1.06	1	06/22/2017 16:14	WG991813
Zinc	62.4		0.623	5.28	1	06/22/2017 16:14	WG991813

Calculated Results

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chromium,Trivalent	8.15		0.150	1.07	1	06/23/2017 10:57	WG991813

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	93.4		1	06/19/2017 08:55	WG990405

Wet Chemistry by Method 3060A/7196A

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chromium,Hexavalent	U		0.685	2.14	1	06/23/2017 10:57	WG991554

Wet Chemistry by Method 9012B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Cyanide	U		0.0418	0.268	1	06/22/2017 18:18	WG991738

Mercury by Method 7471A

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Mercury	0.00672	J	0.00300	0.0214	1	06/23/2017 10:40	WG991670

Metals (ICP) by Method 6010B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Arsenic	1.74	J	0.696	2.14	1	06/22/2017 16:22	WG991813
Barium	52.7		0.182	0.535	1	06/22/2017 16:22	WG991813
Beryllium	0.268		0.0749	0.214	1	06/22/2017 16:22	WG991813
Cadmium	U		0.0749	0.535	1	06/22/2017 16:22	WG991813
Chromium	8.15		0.150	1.07	1	06/22/2017 16:22	WG991813
Copper	23.7		0.567	2.14	1	06/22/2017 16:22	WG991813
Lead	7.22		0.203	0.535	1	06/22/2017 16:22	WG991813
Manganese	359		0.128	1.07	1	06/22/2017 16:22	WG991813
Nickel	15.6		0.525	2.14	1	06/22/2017 16:22	WG991813
Silver	U		0.300	1.07	1	06/22/2017 16:22	WG991813
Zinc	64.3		0.632	5.35	1	06/22/2017 16:22	WG991813

Calculated Results

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chromium,Trivalent	5.46		0.147	1.05	1	06/23/2017 10:57	WG991813

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	95.2		1	06/19/2017 08:55	WG990405

Wet Chemistry by Method 3060A/7196A

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chromium,Hexavalent	U		0.672	2.10	1	06/23/2017 10:57	WG991554

Wet Chemistry by Method 9012B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Cyanide	U		0.0410	0.263	1	06/22/2017 18:19	WG991738

Mercury by Method 7471A

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Mercury	0.00543	J	0.00294	0.0210	1	06/23/2017 10:43	WG991670

Metals (ICP) by Method 6010B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Arsenic	0.927	J	0.683	2.10	1	06/22/2017 16:25	WG991813
Barium	37.3		0.179	0.525	1	06/22/2017 16:25	WG991813
Beryllium	0.210	J	0.0735	0.210	1	06/22/2017 16:25	WG991813
Cadmium	U		0.0735	0.525	1	06/22/2017 16:25	WG991813
Chromium	5.46		0.147	1.05	1	06/22/2017 16:25	WG991813
Copper	15.5		0.557	2.10	1	06/22/2017 16:25	WG991813
Lead	5.20		0.200	0.525	1	06/22/2017 16:25	WG991813
Manganese	237		0.126	1.05	1	06/22/2017 16:25	WG991813
Nickel	9.99		0.515	2.10	1	06/22/2017 16:25	WG991813
Silver	U		0.294	1.05	1	06/22/2017 16:25	WG991813
Zinc	45.5		0.620	5.25	1	06/22/2017 16:25	WG991813

Calculated Results

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chromium,Trivalent	7.74		0.146	1.04	1	06/23/2017 10:58	WG991813

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	95.8		1	06/19/2017 08:55	WG990405

Wet Chemistry by Method 3060A/7196A

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chromium,Hexavalent	U		0.668	2.09	1	06/23/2017 10:58	WG991554

Wet Chemistry by Method 9012B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Cyanide	U		0.0407	0.261	1	06/22/2017 18:20	WG991738

Mercury by Method 7471A

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Mercury	0.00793	J	0.00292	0.0209	1	06/23/2017 10:45	WG991670

Metals (ICP) by Method 6010B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Arsenic	2.26		0.678	2.09	1	06/22/2017 16:27	WG991813
Barium	53.3		0.177	0.522	1	06/22/2017 16:27	WG991813
Beryllium	0.279		0.0731	0.209	1	06/22/2017 16:27	WG991813
Cadmium	U		0.0731	0.522	1	06/22/2017 16:27	WG991813
Chromium	7.74		0.146	1.04	1	06/22/2017 16:27	WG991813
Copper	20.0		0.553	2.09	1	06/22/2017 16:27	WG991813
Lead	7.96		0.198	0.522	1	06/22/2017 16:27	WG991813
Manganese	339		0.125	1.04	1	06/22/2017 16:27	WG991813
Nickel	14.6		0.511	2.09	1	06/22/2017 16:27	WG991813
Silver	U		0.292	1.04	1	06/22/2017 16:27	WG991813
Zinc	65.4		0.616	5.22	1	06/22/2017 16:27	WG991813

Calculated Results

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chromium,Trivalent	7.65		0.148	1.06	1	06/23/2017 10:58	WG991813

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	94.4		1	06/19/2017 08:55	WG990405

Wet Chemistry by Method 3060A/7196A

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chromium,Hexavalent	U		0.678	2.12	1	06/23/2017 10:58	WG991554

Wet Chemistry by Method 9012B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Cyanide	U		0.0413	0.265	1	06/22/2017 18:22	WG991738

Mercury by Method 7471A

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Mercury	0.0102	J	0.00297	0.0212	1	06/23/2017 10:52	WG991670

Metals (ICP) by Method 6010B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Arsenic	2.69		0.689	2.12	1	06/22/2017 16:30	WG991813
Barium	47.3		0.180	0.530	1	06/22/2017 16:30	WG991813
Beryllium	0.281		0.0742	0.212	1	06/22/2017 16:30	WG991813
Cadmium	U		0.0742	0.530	1	06/22/2017 16:30	WG991813
Chromium	7.65		0.148	1.06	1	06/22/2017 16:30	WG991813
Copper	19.0		0.561	2.12	1	06/22/2017 16:30	WG991813
Lead	8.42		0.201	0.530	1	06/22/2017 16:30	WG991813
Manganese	409		0.127	1.06	1	06/22/2017 16:30	WG991813
Nickel	13.3		0.519	2.12	1	06/22/2017 16:30	WG991813
Silver	U		0.297	1.06	1	06/22/2017 16:30	WG991813
Zinc	55.1		0.625	5.30	1	06/22/2017 16:30	WG991813

Calculated Results

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chromium,Trivalent	7.17		0.146	1.04	1	06/23/2017 10:59	WG991813

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	96.0		1	06/19/2017 08:55	WG990405

Wet Chemistry by Method 3060A/7196A

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chromium,Hexavalent	U		0.667	2.08	1	06/23/2017 10:59	WG991554

Wet Chemistry by Method 9012B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Cyanide	U		0.0406	0.260	1	06/22/2017 18:23	WG991738

Mercury by Method 7471A

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Mercury	0.00723	J	0.00292	0.0208	1	06/23/2017 10:55	WG991670

Metals (ICP) by Method 6010B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Arsenic	2.76		0.677	2.08	1	06/22/2017 16:33	WG991813
Barium	47.7		0.177	0.521	1	06/22/2017 16:33	WG991813
Beryllium	0.248		0.0729	0.208	1	06/22/2017 16:33	WG991813
Cadmium	0.0816	J	0.0729	0.521	1	06/22/2017 16:33	WG991813
Chromium	7.17		0.146	1.04	1	06/22/2017 16:33	WG991813
Copper	20.3		0.552	2.08	1	06/22/2017 16:33	WG991813
Lead	6.85		0.198	0.521	1	06/22/2017 16:33	WG991813
Manganese	401		0.125	1.04	1	06/22/2017 16:33	WG991813
Nickel	13.3		0.510	2.08	1	06/22/2017 16:33	WG991813
Silver	U		0.292	1.04	1	06/22/2017 16:33	WG991813
Zinc	62.8		0.615	5.21	1	06/22/2017 16:33	WG991813

Calculated Results

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chromium,Trivalent	7.32		0.147	1.05	1	06/23/2017 11:00	WG991813

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	95.5		1	06/19/2017 10:23	WG990406

Wet Chemistry by Method 3060A/7196A

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chromium,Hexavalent	U		0.670	2.09	1	06/23/2017 11:00	WG991554

Wet Chemistry by Method 9012B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Cyanide	0.0497	J	0.0408	0.262	1	06/22/2017 18:24	WG991738

Mercury by Method 7471A

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Mercury	0.00569	J	0.00293	0.0209	1	06/23/2017 10:57	WG991670

Metals (ICP) by Method 6010B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Arsenic	3.96		0.681	2.09	1	06/22/2017 16:36	WG991813
Barium	44.6		0.178	0.524	1	06/22/2017 16:36	WG991813
Beryllium	0.218		0.0733	0.209	1	06/22/2017 16:36	WG991813
Cadmium	U		0.0733	0.524	1	06/22/2017 16:36	WG991813
Chromium	7.32		0.147	1.05	1	06/22/2017 16:36	WG991813
Copper	16.5		0.555	2.09	1	06/22/2017 16:36	WG991813
Lead	9.15		0.199	0.524	1	06/22/2017 16:36	WG991813
Manganese	327		0.126	1.05	1	06/22/2017 16:36	WG991813
Nickel	13.1		0.513	2.09	1	06/22/2017 16:36	WG991813
Silver	U		0.293	1.05	1	06/22/2017 16:36	WG991813
Zinc	55.7		0.618	5.24	1	06/22/2017 16:36	WG991813

Method Blank (MB)

(MB) R3226648-1 06/17/17 12:20

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.000300			

L916338-01 Original Sample (OS) • Duplicate (DUP)

(OS) L916338-01 06/17/17 12:20 • (DUP) R3226648-3 06/17/17 12:20

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	94.7	94.7	1	0.0561		5

Laboratory Control Sample (LCS)

(LCS) R3226648-2 06/17/17 12:20

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3226908-1 06/19/17 08:55

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.000400			

L916338-02 Original Sample (OS) • Duplicate (DUP)

(OS) L916338-02 06/19/17 08:55 • (DUP) R3226908-3 06/19/17 08:55

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	93.5	93.0	1	0.469		5

Laboratory Control Sample (LCS)

(LCS) R3226908-2 06/19/17 08:55

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3226916-1 06/19/17 10:23

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.000600			

L916341-02 Original Sample (OS) • Duplicate (DUP)

(OS) L916341-02 06/19/17 10:23 • (DUP) R3226916-3 06/19/17 10:23

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	73.1	73.2	1	0.124		5

Laboratory Control Sample (LCS)

(LCS) R3226916-2 06/19/17 10:23

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3228181-1 06/23/17 10:25

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Chromium,Hexavalent	U		0.64	2.00

L917491-03 Original Sample (OS) • Duplicate (DUP)

(OS) L917491-03 06/23/17 10:45 • (DUP) R3228181-4 06/23/17 10:46

Analyte	Original Result mg/kg	DUP Result mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chromium,Hexavalent	U	0.000	1	0		20

L917680-07 Original Sample (OS) • Duplicate (DUP)

(OS) L917680-07 06/23/17 11:00 • (DUP) R3228181-9 06/23/17 11:00

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chromium,Hexavalent	U	0	1	0		20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3228181-2 06/23/17 10:26 • (LCSD) R3228181-3 06/23/17 10:26

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Chromium,Hexavalent	56.9	52.4	52.6	92	92	80-120			0	20

L917491-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L917491-03 06/23/17 10:45 • (MS) R3228181-5 06/23/17 10:47 • (MSD) R3228181-6 06/23/17 10:47

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chromium,Hexavalent	20.0	U	15.3	15.3	76	77	1	75-125			0	20

Method Blank (MB)

(MB) R3228011-1 06/22/17 17:51

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Cyanide	U		0.039	0.250

L917680-04 Original Sample (OS) • Duplicate (DUP)

(OS) L917680-04 06/22/17 18:20 • (DUP) R3228011-4 06/22/17 18:21

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Cyanide	U	0	1	0		20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3228011-2 06/22/17 17:52 • (LCSD) R3228011-3 06/22/17 17:53

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Cyanide	2.50	2.62	2.60	105	104	50-150			1	20

Method Blank (MB)

(MB) R3228195-1 06/23/17 09:56

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/kg		mg/kg	mg/kg
Mercury	U		0.0028	0.0200

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3228195-2 06/23/17 09:58 • (LCSD) R3228195-3 06/23/17 10:00

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/kg	mg/kg	mg/kg	%	%	%			%	%
Mercury	0.300	0.273	0.296	91	99	80-120			8	20

L917542-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L917542-08 06/23/17 10:03 • (MS) R3228195-4 06/23/17 10:05 • (MSD) R3228195-5 06/23/17 10:07

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Mercury	0.300	0.0409	0.342	0.342	100	100	1	75-125			0	20

Method Blank (MB)

(MB) R3228030-1 06/22/17 15:16

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Arsenic	U		0.65	2.00
Barium	U		0.17	0.500
Beryllium	U		0.07	0.200
Cadmium	U		0.07	0.500
Chromium	U		0.14	1.00
Copper	U		0.53	2.00
Lead	U		0.19	0.500
Manganese	U		0.12	1.00
Nickel	U		0.49	2.00
Silver	U		0.28	1.00
Zinc	U		0.59	5.00

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3228030-2 06/22/17 15:19 • (LCSD) R3228030-3 06/22/17 15:22

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Arsenic	100	96.8	94.4	97	94	80-120			3	20
Barium	100	105	103	105	103	80-120			2	20
Beryllium	100	106	104	106	104	80-120			1	20
Cadmium	100	99.8	97.9	100	98	80-120			2	20
Chromium	100	101	99.6	101	100	80-120			1	20
Copper	100	100	98.7	100	99	80-120			2	20
Lead	100	99.9	98.2	100	98	80-120			2	20
Manganese	100	98.5	97.1	98	97	80-120			1	20
Nickel	100	101	99.7	101	100	80-120			2	20
Silver	20.0	18.2	17.9	91	90	80-120			2	20
Zinc	100	100	98.9	100	99	80-120			2	20

L916920-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L916920-01 06/22/17 15:24 • (MS) R3228030-6 06/22/17 15:32 • (MSD) R3228030-7 06/22/17 15:35

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic	100	7.90	106	102	98	94	1	75-125			3	20
Barium	100	5790	6640	6340	853	548	1	75-125	E V	E V	5	20
Beryllium	100	0.650	102	102	101	101	1	75-125			0	20
Cadmium	100	ND	99.7	99.7	100	100	1	75-125			0	20
Chromium	100	16.3	107	106	91	89	1	75-125			2	20

L916920-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L916920-01 06/22/17 15:24 • (MS) R3228030-6 06/22/17 15:32 • (MSD) R3228030-7 06/22/17 15:35

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Copper	100	19.3	120	116	100	97	1	75-125			3	20
Lead	100	19.0	120	120	101	101	1	75-125			0	20
Manganese	100	266	360	325	93	59	1	75-125		J6	10	20
Nickel	100	15.1	118	115	103	100	1	75-125			2	20
Silver	20.0	ND	18.5	18.6	92	93	1	75-125			1	20
Zinc	100	69.9	162	160	92	90	1	75-125			1	20

Abbreviations and Definitions

SDG	Sample Delivery Group.
MDL	Method Detection Limit.
MDL (dry)	Method Detection Limit.
RDL (dry)	Reported Detection Limit.
RDL	Reported Detection Limit.
U	Not detected at the Reporting Limit (or MDL where applicable).
RPD	Relative Percent Difference.
(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Rec.	Recovery.

Qualifier	Description
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
V	The sample concentration is too high to evaluate accurate spike recoveries.

ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our "one location" design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be **YOUR LAB OF CHOICE.**

***** Not all certifications held by the laboratory are applicable to the results reported in the attached report.

State Accreditations

Alabama	40660	Nevada	TN-03-2002-34
Alaska	UST-080	New Hampshire	2975
Arizona	AZ0612	New Jersey–NELAP	TN002
Arkansas	88-0469	New Mexico	TN00003
California	01157CA	New York	11742
Colorado	TN00003	North Carolina	Env375
Conneticut	PH-0197	North Carolina [1]	DW21704
Florida	E87487	North Carolina [2]	41
Georgia	NELAP	North Dakota	R-140
Georgia [1]	923	Ohio–VAP	CL0069
Idaho	TN00003	Oklahoma	9915
Illinois	200008	Oregon	TN200002
Indiana	C-TN-01	Pennsylvania	68-02979
Iowa	364	Rhode Island	221
Kansas	E-10277	South Carolina	84004
Kentucky [1]	90010	South Dakota	n/a
Kentucky [2]	16	Tennessee [1 4]	2006
Louisiana	AI30792	Texas	T 104704245-07-TX
Maine	TN0002	Texas [5]	LAB0152
Maryland	324	Utah	6157585858
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	109
Minnesota	047-999-395	Washington	C1915
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA
Nebraska	NE-OS-15-05		

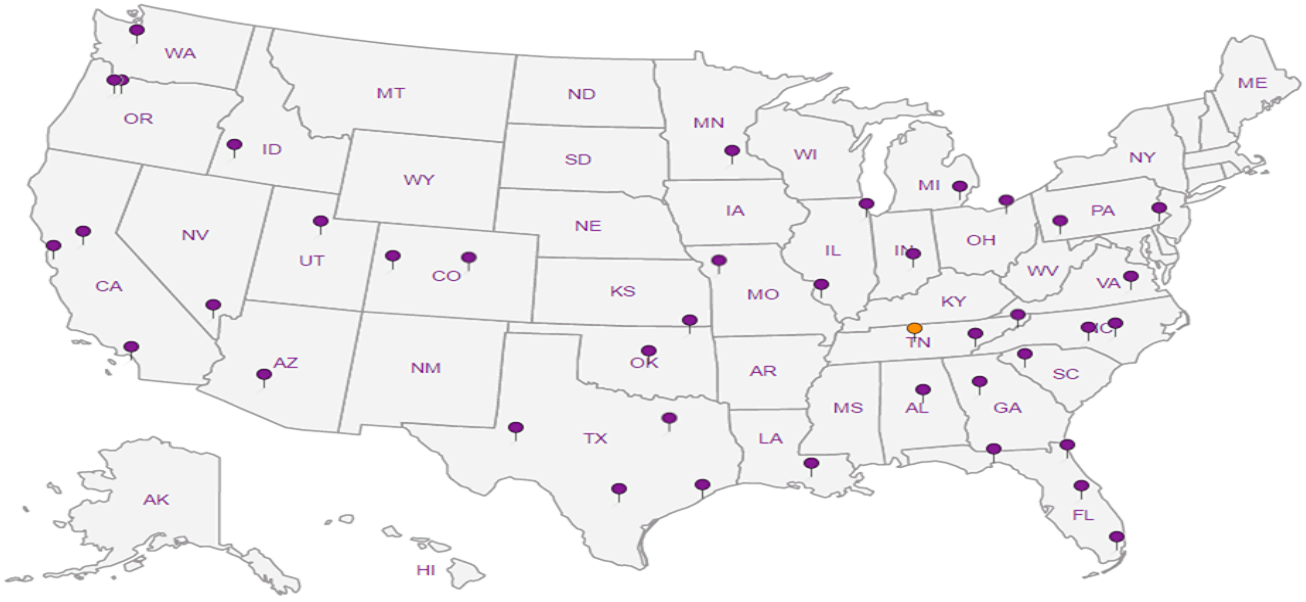
Third Party & Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	S-67674
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [n/a] Accreditation not applicable

Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. **ESC Lab Sciences performs all testing at our central laboratory.**



Remedial Construction Services, L.P.

950 West Valley Rd.
Suite 2802
Wayne PA 19087

Billing Information:
Accounts Payable
950 West Valley Rd., Ste. 2802
Wayne, PA 19087

Pres Chk

Report to: ~~Mr. Richard Bada~~ KYLE SNYDER

Email To: ~~richard.bada@remconservices.com~~ kyle.snyder@remconservices.com

Project Description: Elmira, NY

City/State Collected: ELMIRA / NY

Phone: ~~484-307-5400~~
Fax: 713-906-2590

Client Project # 23925

Lab Project # REMCONWPA-0601175

Collected by (print): Kyle Snyder

Site/Facility ID #

P.O. # 23925-0007

Collected by (signature): Kyle Snyder
Immediately
Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
X Three Day

Quote #

Date Results Needed

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	SV8081/8082,SV8270D 4ozClr-NoPres	SV8270D 4ozClr-NoPres	TS 2ozClr-NoPres	V8260C 40ml/NaHSO4/Syr/MeOH	VOC Screen 2ozClr-NoPres					Remarks	Sample # (lab only)
BREWERS_PIT_1		SS		6-14-17		6	X		X	X	X						-01 ~~01~~
BREWERS_PIT_2		SS		6-14-17		6	X		X	X	X						-02 ~~02~~
BREWERS_PIT_3		SS		6-14-17		6		X	X	X	X						-03 ~~03~~
BREWERS_PIT_4		SS		6-14-17		6		X	X	X	X						-04 ~~04~~
BREWERS_PIT_5		SS		6-14-17		6		X	X	X	X						-05 ~~05~~
BREWERS_PIT_6		SS		6-14-17		6		X	X	X	X						-06 ~~06~~
BREWERS_PIT_7		SS		6-14-17		6		X	X	X	X						-07 ~~07~~

Analysis / Container / Preservative

Chain of Custody Page ___ of ___

ESC LAB SCIENCES

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# L916338

D153 L917680

Acctnum: REMCONWPA
Template: T124625
Prelogin: P606085
TSR: 364 - T. Alan Harvill
PB:
Shipped Via: FedEX Priority

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx X Courier __ _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: NP __Y __N
COC Signed/Accurate: ✓Y __N
Bottles arrive intact: ✓Y __N
Correct bottles used: ✓Y __N
Sufficient volume sent: ✓Y __N
If Applicable
VOA Zero Headspace: __Y __N
Preservation Correct/Checked: __Y __N

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
Kyle Snyder	6-19-17	5:45PM	
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)

Trip Blank Received: (Yes) No
HCL / MeoH
TBR

Temp: 5.3 WT °C Bottles Received: 42

Date: 6-15-17 Time: 845

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

L917680

Troy Dunlap

From: Alan Harvill
Sent: Wednesday, June 21, 2017 4:36 PM
To: Login; Metals; Metals Prep; Wet Lab
Subject: L916338 REMCONWPA - RUSH RELOG

Importance: High

Please relog L916338-01 thru -07 for CR6, CR3, Cn, HG, ASICP, BAICP, BEICP, CDICP, CUICP, PBICP, MNICP, NIICP, AGICP, and ZNICP. Log for 2 day TAT due Friday.

Thanks,

Alan Harvill
Technical Service Representative
Phone: 615-773-9787
Toll Free: 1-800-767-5859 ext:9787
Email: *aharvill@esclabsciences.com*

This E-mail and any attached files are confidential, and may be copyright protected. If you are not the addressee, any dissemination of this communication is strictly prohibited. If you have received this message in error, please contact the sender immediately and delete/destroy all information received.

Geosyntec consultants

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Knoxville, TN 37922
PH 865.330.0037
www.geosyntec.com

Memorandum

Date:	27 June 2017
To:	Aron Krasnopoler
From:	Chris Pracheil
CC:	J. Caprio
Subject:	**Stage 2A Data Validation - Level II Data Deliverable, ESC Lab Sciences Sample Delivery Group # L916338 and L917680**

SITE: Former Sperry Remington Site-North

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of seven solid samples collected June 14, 2017, as part of the Former Sperry Remington Site-North soil import request. The analyses were performed at ESC Lab Sciences, Mount Juliet, Tennessee. The samples were analyzed for the following tests:

- Volatile Organic Compounds (VOCs) by EPA Methods 5035/8260C
- Semivolatile Organic Compounds (SVOCs) by EPA Methods 3546/8270D
- Organochlorine Pesticides by EPA Methods 3546/8081
- Polychlorinated Biphenyls (PCBs) by EPA Methods 3546/8082
- Metals by EPA Methods 3050B/6010B
- Mercury by EPA Method 7471B
- Hexavalent Chromium by EPA Methods 3060A/7196A
- Total Cyanide by EPA Method 9012B
- Total Solids by Standard Method 2540G

EXECUTIVE SUMMARY

The samples were handled, prepared, and measured in the same manner under similar prescribed conditions.

Overall, based on this Stage 2A data validation covering the quality control (QC) parameters listed below, the data as qualified are usable for meeting project objectives. Qualified data should be used within the limitations of the qualification.

The data was validated based on the following documents as well as by the pertinent methods and professional and technical judgment:

- Quality Assurance Project Plan (QAPP) for Former Sperry Remington Facility Industrial Outfall Site, Elmira, New York, NYSDEC Site I.D. # 808043, NY09-2480-04, July 7, 2010, Revised November 11, 2010
- USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review, August 2014 (EPA 540-R-014-002)
- USEPA Contract Laboratory Program National Functional Guidelines for Superfund Inorganic Methods Data Review, August 2014 (EPA 540-R-013-001)

The following samples were analyzed and validated at Stage 2A level in the data sets:

Laboratory ID	Client ID
L916338-01	BREWERS_PIT_1
L916338-02	BREWERS_PIT_2
L916338-03	BREWERS_PIT_3
L916338-04	BREWERS_PIT_4
L916338-05	BREWERS_PIT_5
L916338-06	BREWERS_PIT_6
L916338-07	BREWERS_PIT_7

Laboratory ID	Client ID
L917680-01	BREWERS_PIT_1
L917680-02	BREWERS_PIT_2
L917680-03	BREWERS_PIT_3
L917680-04	BREWERS_PIT_4
L917680-05	BREWERS_PIT_5
L917680-06	BREWERS_PIT_6
L917680-07	BREWERS_PIT_7

Seven samples were received by the laboratory and were logged in and reported in two separate reports.

The samples were received at the laboratory at 5.3^{o}C, within the QAPP criteria of <6°C. No sample preservation issues were noted by the laboratory.

No collection times were listed on the chain of custody (COC) for the samples; the laboratory assigned collection times of 00:00.

Incorrect error corrections were observed on the COC, instead of the proper procedure of a single strike through, correction, and initials and date of person making the corrections.

The solids data, used to report the samples on a dry weight bases, were not validated.

1.0 VOLATILE ORGANIC COMPOUNDS

The samples were analyzed for VOCs by EPA methods 5035/8260B.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues

were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

⊗ Overall Assessment
✓ Holding Times
✓ Method Blank
✓ Matrix Spike/Matrix Spike Duplicate
✓ Laboratory Control Sample
✓ Surrogates
✓ Trip Blank
✓ Field Duplicate
✓ Sensitivity
✓ Electronic Data Deliverable Review

1.1 Overall Assessment

The VOC data reported in this package are considered to be usable for meeting project objectives. The analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this package is 100%.

1.1.1 Analytical Anomalies

The continuing calibration verification (CCV) percent difference (%D) for 2-butanone was high, outside laboratory specified acceptance criteria, with low bias. Therefore, the non-detect results of 2-butanone in the associated samples were UJ qualified, as estimated less than the reporting limit (RL).

Sample	Compound	Laboratory Result (mg/kg)	Laboratory Flag	Validation Result (mg/kg)	Validation Qualifier*	Reason Code**
BREWERS_PIT_1	2-Butanone	0.0106	U	0.0106	UJ	9
BREWERS_PIT_2	2-Butanone	0.0107	U	0.0107	UJ	9
BREWERS_PIT_3	2-Butanone	0.0105	U	0.0105	UJ	9
BREWERS_PIT_4	2-Butanone	0.0104	U	0.0104	UJ	9
BREWERS_PIT_5	2-Butanone	0.0105	U	0.0105	UJ	9
BREWERS_PIT_6	2-Butanone	0.0104	U	0.0104	UJ	9
BREWERS_PIT_7	2-Butanone	0.0105	U	0.0105	UJ	9

mg/kg-milligrams per kilogram
U-not detected at or above the MDL

* Validation qualifiers are defined in Attachment 1 at the end of this report
**Reason codes are defined in Attachment 2 at the end of this report

1.2 Holding Times

The QAPP specified holding time for VOC analysis of a solid sample is 14 days from sample collection to analysis. The holding times were met for the sample analyses.

1.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch WG990989). VOCs were not detected in the method blank above the method detection limits (MDLs, with the following exception.

Methylene chloride was detected at an estimated concentration, greater than the MDL and less than the (RL) in the method blank associated with batch WG990989. Since methylene chloride was not detected in the associated samples, no qualifications were applied to the data.

1.4 Matrix Spike/Matrix Spike Duplicate (MS/MSD)

An MS/MSD pair was not reported with the VOC analyses.

1.5 Laboratory Control Sample (LCS)

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS/laboratory control sample duplicate (LCSD) pair was reported. The recovery and RPD results were within the laboratory specified acceptance criteria, with the following exceptions.

The LCS recoveries of cis-1,2-dichloroethene and trans-1,2-dichloroethene were high, outside laboratory specified acceptance criteria. Since cis-1,2-dichloroethene and trans-1,2-dichloroethene were not detected in the associated samples, no qualifications were applied to the data.

1.6 Surrogates

Acceptable surrogate recoveries were reported for the sample analyses.

1.7 Trip Blank

A trip blank did not accompany the samples.

1.8 Field Duplicate

Field duplicates were not collected with the samples.

1.9 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were not reported. The MDLs were at or below the soil cleanup objectives listed in table 2 of the QAPP.

1.10 Electronic Data Deliverable (EDD) Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The laboratory report includes both the MDLs and the RLs, however the EDD reports non-detects at the RL. Additionally, the QC data was not included in the EDDs, no other discrepancies were identified between the level II report and the EDDs.

2.0 SEMIVOLATILE ORGANIC COMPOUNDS

The samples were analyzed for SVOCs by EPA methods 3546/8270D.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Surrogates
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

2.1 Overall Assessment

The SVOC data reported in this package are considered to be usable for meeting project objectives. The analytical completeness defined as the ratio of the number of valid analytical results (valid

analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this package is 100%.

2.2 Holding Times

The holding times for SVOC analysis of preserved solid samples are 14 days from sample collection to sample preparation and 40 days from sample preparation to analysis. The holding times were met for the sample analyses.

2.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch WG990189). SVOCs were not detected in the method blank above the MDLs.

2.4 Matrix Spike/Matrix Spike Duplicate

An MS/MSD pair was not reported with the SVOC analyses.

2.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS/LCSD pair was reported. The recovery and RPD results were within the laboratory specified acceptance criteria, with the following exceptions.

One or both recoveries of benzidine and 3,3-dichlorobenzidine and the relative percent difference (RPD) for 2,4-dinitrophenol were high, outside laboratory specified acceptance criteria in the LCS/LCSD pair. Since benzidine, 3,3-dichlorobenzidine and 2,4-dinitrophenol were not detected in the associated samples, no qualifications were applied to the data.

2.6 Surrogates

Acceptable surrogate recoveries were reported for the sample analyses.

2.7 Field Duplicate

Field duplicates were not collected with the samples.

2.8 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were not reported. The MDLs were at or below the soil cleanup objectives listed in table 2 of the QAPP.

2.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The laboratory report includes both the MDLs and the RLs however, the EDD reports non-detects at the RL. Additionally, the QC data was not included in the EDDs, no other discrepancies were identified between the level II report and the EDDs.

3.0 ORGANOCHLORINE PESTICIDES

The samples were analyzed for organochlorine pesticides by EPA Methods 3546/8081.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Surrogates
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

3.1 Overall Assessment

The organochlorine pesticide data reported in this package are considered to be usable for meeting project objectives. The analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this package is 100%.

3.2 Holding Times

The holding times for organochlorine pesticide analysis of preserved solid samples are 14 days from sample collection to sample preparation and 40 days from sample preparation to analysis. The holding times were met for the sample analyses.

3.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch WG990183). Pesticides were not detected in the method blank above the MDLs.

3.4 Matrix Spike/Matrix Spike Duplicate

An MS/MSD pair was not reported with the pesticide analyses.

3.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS/LCSD pair was reported. The recovery and RPD results were within the laboratory specified acceptance criteria.

3.6 Surrogates

Acceptable surrogate recoveries were reported for the sample analyses.

3.7 Field Duplicate

Field duplicates were not collected with the samples.

3.8 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were not reported. The MDLs were at or below the soil cleanup objectives listed in table 2 of the QAPP.

3.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The laboratory report includes both the MDLs and the RLs however, the EDD reports non-detects at

the RL. Additionally, the QC data was not included in the EDDs, no other discrepancies were identified between the level II report and the EDDs.

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4.0 POLYCHLORINATED BIPHENYLS

The samples were analyzed for polychlorinated biphenyls (PCBs) by EPA Methods 3546/8082A.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Surrogates
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

4.1 Overall Assessment

The PCB data reported in this package are considered to be usable for meeting project objectives. The analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this package is 100%.

4.2 Holding Times

The QAPP lists the holding times for PCB analysis of preserved solid samples are 14 days from sample collection to sample preparation and 40 days from sample preparation to analysis. The holding times were met for the sample analyses.

4.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch WG990183). PCBs were not detected in the method blank above the MDLs.

4.4 Matrix Spike/Matrix Spike Duplicate

A batch MS/MSD pair was reported with the PCB analyses. Since this was batch QC there was not impact on the data and no qualifications were applied.

4.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS/LCSD pair was reported. The recovery and RPD results were within the laboratory specified acceptance criteria.

4.6 Surrogates

Acceptable surrogate recoveries were reported for the sample analyses.

4.7 Field Duplicate

Field duplicates were not collected with the samples.

4.8 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were not reported. The MDLs were at or below the soil cleanup objectives listed in table 2 of the QAPP.

4.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The laboratory report includes both the MDLs and the RLs however, the EDD reports non-detects at the RL. Additionally, the QC data was not included in the EDDs, no other discrepancies were identified between the level II report and the EDDs.

5.0 METALS

The samples were analyzed for metals by EPA methods 3050B/6010B (Mercury evaluated separately in Section 6.0, below).

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

5.1 Overall Assessment

The metals data reported in this package are considered to be usable for meeting project objectives. The results are considered to be valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this package is 100%.

5.2 Holding Times

The holding time for metals analysis of solid samples is 180 days from sample collection to analysis. The holding times were met for the sample analyses.

5.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch WG991813). The metals were not detected in the method blank above the MDLs.

5.4 Matrix Spike/Matrix Spike Duplicate

A batch MS/MSD pair was reported with the metals analyses. Since this was batch QC there was not impact on the data and no qualifications were applied.

5.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS/LCSD pair was reported. The recovery and RPD results were within the laboratory specified acceptance criteria.

5.6 Laboratory Duplicate

A laboratory duplicate was not reported with the sample set.

5.7 Field Duplicate

Field duplicates were not collected with the samples.

5.8 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were not reported. The MDLs were at or below the soil cleanup objectives listed in table 2 of the QAPP.

5.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The laboratory report includes both the MDLs and the RLs however, the EDD reports non-detects at the RL. Additionally, the QC data was not included in the EDDs, no other discrepancies were identified between the level II report and the EDDs.

6.0 MERCURY

The samples were analyzed for mercury by EPA methods 7471A.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample

- ✓ Laboratory Duplicate
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

6.1 Overall Assessment

The mercury data reported in this package are considered to be usable for meeting project objectives. The results are considered to be valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this package is 100%.

6.2 Holding Times

The holding time for mercury analysis of solid samples is 28 days from sample collection to analysis. The holding times were met for the sample analyses.

6.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch WG991670). Mercury was not detected in the method blank above the MDL.

6.4 Matrix Spike/Matrix Spike Duplicate

A batch MS/MSD pair was reported with the mercury analyses. Since this was batch QC there was not impact on the data and no qualifications were applied.

6.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS/LCSD pair was reported. The recovery and RPD results were within the laboratory specified acceptance criteria.

6.6 Laboratory Duplicate

A laboratory duplicate was not reported.

6.7 Field Duplicate

Field duplicates were not collected with the samples.

6.8 Sensitivity

The samples were reported to the MDL. Elevated non-detect results were not reported. The MDL was at or below the soil cleanup objective listed in table 2 of the QAPP.

6.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The laboratory report includes both the MDLs and the RLs however, the EDD reports non-detects at the RL. Additionally, the QC data was not included in the EDDs, no other discrepancies were identified between the level II report and the EDDs.

7.0 HEXAVALENT CHROMIUM

The samples were analyzed for hexavalent chromium by EPA Methods 3060A/7196A.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Equipment Blank
- ✓ Sensitivity
- ✓ Electronic Data Deliverables Review

7.1 Overall Assessment

The hexavalent chromium data reported in this package are considered usable for meeting project objectives. The analytical completeness, defined as the ratio of the number of valid analytical

results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this package is 100%.

7.2 Holding Times

The holding times for the hexavalent chromium analysis of solid samples are 30 days from sample collection to extraction and 7 days from extraction to analysis. The holding times were met for the sample analyses.

7.3 Method Blanks

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch WG991554). Hexavalent chromium was not detected in the method blank above the MDL.

7.4 Matrix Spike

A batch MS/MSD pair was reported with the hexavalent chromium analyses. Since this was batch QC there was not impact on the data and no qualifications were applied.

7.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS/LCSD pair was reported. The recovery and RPD result was within the laboratory specified acceptance criteria.

7.6 Laboratory Duplicate

A sample set specific laboratory duplicate was reported for hexavalent chromium using sample BREWERS_PIT_7. The RPD result was within the laboratory specified acceptance criteria. A batch laboratory duplicate was also reported with the hexavalent chromium analyses. Since this was batch QC there was not impact on the data and no qualifications were applied.

7.7 Field Blank

A field blank was not collected with the sample set.

7.8 Field Duplicate

A field duplicate was not collected with the sample set.

7.9 Sensitivity

The samples were reported to the MDL. Elevated non-detect results were not reported. The MDL was at or below the soil cleanup objective listed in table 2 of the QAPP.

7.10 Electronic Data Deliverables Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The laboratory report includes both the MDLs and the RLs however, the EDD reports non-detects at the RL. Additionally, the QC data was not included in the EDDs, no other discrepancies were identified between the level II report and the EDDs.

8.0 TOTAL CYANIDE

The samples were analyzed for total cyanide by EPA Methods 9012B.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Equipment Blank
- ✓ Sensitivity
- ✓ Electronic Data Deliverables Review

8.1 Overall Assessment

The cyanide data reported in this package are considered usable for meeting project objectives. The analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this package is 100%.

8.2 Holding Times

The holding time for the hexavalent chromium analysis of solid samples is 14 days from sample collection to analysis. The holding times were met for the sample analyses.

8.3 Method Blanks

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch WG991738). Hexavalent chromium was not detected in the method blank above the MDL.

8.4 Matrix Spike

An MS/MSD pair was not reported with the cyanide analyses.

8.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS/LCSD pair was reported. The recovery and RPD result was within the laboratory specified acceptance criteria.

8.6 Laboratory Duplicate

A sample set specific laboratory duplicate was reported for hexavalent chromium using sample BREWERS_PIT_4. The RPD result was within the laboratory specified acceptance criteria.

8.7 Field Duplicate

A field duplicate was not collected with the sample set.

8.8 Sensitivity

The samples were reported to the MDL. Elevated non-detect results were not reported. The MDL was at or below the soil cleanup objective listed in table 2 of the QAPP.

8.9 Electronic Data Deliverables Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The laboratory report includes both the MDLs and the RLs however, the EDD reports non-detects at

the RL. Additionally, the QC data was not included in the EDDs, no other discrepancies were identified between the level II report and the EDDs.

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ATTACHMENT 1
DATA VALIDATION QUALIFIER DEFINITIONS AND INTERPRETATION KEY
Assigned by Geosyntec's Data Validation Team

DATA QUALIFIER DEFINITIONS

U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

J+ The analyte was positively identified; however, the associated numerical value is likely to be higher that the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.

J- The analyte was positively identified; however, the associated numerical value is likely to be lower that the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ATTACHMENT 2
DATA VALIDATION REASON CODES
Assigned by Geosyntec's Data Validation Team

Valid Value	Description
1	Preservation requirement not met
2	Analysis holding time exceeded
3	Blank contamination (i.e., method, trip, equipment, etc.)
4	Matrix spike/matrix spike duplicate recovery or RPD outside limits
5	LCS recovery outside limits
6	Surrogate recovery outside limits
7	Field Duplicate RPD exceeded
8	Serial dilution percent difference exceeded
9	Calibration criteria not met
10	Linear range exceeded
11	Internal standard criteria not met
12	Lab duplicates RPD exceeded
13	Other

RPD-relative percent difference

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Request to Import/Reuse Fill or Soil

This form is based on the information required by DER-10, Section 5.4(e). Use of this form is not a substitute for reading the applicable Technical Guidance document.

SECTION 1 – SITE BACKGROUND

The allowable site use is: Restricted Residential Use

Have Ecological Resources been identified? yes

Is this soil originating from the site? no

How many cubic yards of soil will be imported/reused? 800-1000

If greater than 1000 cubic yards will be imported, enter volume to be imported:

SECTION 2 – MATERIAL OTHER THAN SOIL

Is the material to be imported gravel, rock or stone? no

Does it contain less than 10%, by weight, material that would pass a size 80 sieve? yes

Is this virgin material from a permitted mine or quarry? yes

Is this material recycled concrete or brick from a DEC registered processing facility? no

SECTION 3 - SAMPLING

Provide a brief description of the number and type of samples collected in the space below:

Seven (7) Discrete Samples were collected and analyzed for VOCs. Two (2) Composite Samples were collected and analyzed for SVOCs, Inorganics, and PCBs/Pesticides. The chain of custody incorrectly shows the same Sample ID for the composite samples and the first two discrete VOC samples. The Analytical Results have been attached to this form.

Two (2) composite samples were collected and analyzed for grain size distribution and moisture-density.

Example Text: 5 discrete samples were collected and analyzed for VOCs. 2 composite samples were collected and analyzed for SVOCs, Inorganics & PCBs/Pesticides.

If the material meets requirements of DER-10 section 5.5 (other material), no chemical testing needed.

SECTION 3 CONT'D - SAMPLING

Provide a brief written summary of the sampling results or attach evaluation tables (compare to DER-10, Appendix 5):

Analytical results are compared to Restricted Residential SCO.

VOC analyses: acetone, benzene, toluene, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene and total xylenes were detected in 7 of 7 samples at levels below Restricted Residential SCOs.

There were no detections of SVOCs, PCBs, or pesticides in the two composite samples.

Metals analyses: arsenic, barium, beryllium, copper, lead manganese, nickel, zinc, and mercury were detected at levels below Restricted Residential SCOs.

Example Text: Arsenic was detected up to 17 ppm in 1 (of 5) samples; the allowable level is 16 ppm.

If Ecological Resources have been identified use the "If Ecological Resources are Present" column in Appendix 5.

SECTION 4 – SOURCE OF FILL

Name of person providing fill and relationship to the source:

Edger Enterprises

Location where fill was obtained:

Brewer's Pit located in Horseheads NY

Identification of any state or local approvals as a fill source:

NYSDEC Facility ID 8-0734-00150

If no approvals are available, provide a brief history of the use of the property that is the fill source:

Provide a list of supporting documentation included with this request:

Geotechnical Data and the Chemical Analysis Reports

The information provided on this form is accurate and complete.



Signature

6-23-17

Date

Kyle Snyder

Print Name

RECON

Firm

ANALYTICAL REPORT

July 10, 2017

Remedial Construction Services, L.P.

Sample Delivery Group:	L919054
Samples Received:	06/28/2017
Project Number:	23925
Description:	Elmira, NY

Report To:

Mr. John Geary
950 West Valley Rd.
Suite 2802
Wayne, PA 19087

Entire Report Reviewed By:

T. Alan Harvill
Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



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BP-1000-2000-COMP L919054-01 Solid

Collected by: AR/KS | Collected date/time: 06/27/17 13:35 | Received date/time: 06/28/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Calculated Results	WG994491	1	06/29/17 22:51	07/05/17 15:49	MA
Total Solids by Method 2540 G-2011	WG994736	1	06/30/17 17:27	06/30/17 17:34	MLW
Wet Chemistry by Method 3060A/7196A	WG993758	1	07/05/17 10:15	07/05/17 15:49	MA
Wet Chemistry by Method 9012B	WG994077	1	06/30/17 12:51	07/03/17 20:26	ASK
Mercury by Method 7471A	WG993877	1	06/28/17 14:47	07/03/17 12:14	EL
Metals (ICP) by Method 6010B	WG994491	1	06/29/17 22:51	07/03/17 02:15	CCE
Pesticides (GC) by Method 8081	WG995401	1	07/06/17 06:57	07/06/17 18:17	VKS
Polychlorinated Biphenyls (GC) by Method 8082	WG996302	1	07/07/17 07:04	07/07/17 09:20	JNS
Semi Volatile Organic Compounds (GC/MS) by Method 8270D	WG995531	1	07/06/17 10:21	07/06/17 17:13	KMP

BP-2000-3000-COMP L919054-02 Solid

Collected by: AR/KS | Collected date/time: 06/27/17 13:45 | Received date/time: 06/28/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Calculated Results	WG994491	1	06/29/17 22:51	07/05/17 15:51	MA
Total Solids by Method 2540 G-2011	WG994743	1	06/30/17 16:59	06/30/17 17:07	MLW
Wet Chemistry by Method 3060A/7196A	WG993758	1	07/05/17 10:15	07/05/17 15:51	MA
Wet Chemistry by Method 9012B	WG994077	1	06/30/17 12:51	07/03/17 20:27	ASK
Mercury by Method 7471A	WG993877	1	06/28/17 14:47	07/03/17 12:24	EL
Metals (ICP) by Method 6010B	WG994491	1	06/29/17 22:51	07/03/17 02:18	CCE
Pesticides (GC) by Method 8081	WG995401	1	07/06/17 06:57	07/06/17 18:29	VKS
Polychlorinated Biphenyls (GC) by Method 8082	WG996302	1	07/07/17 07:04	07/07/17 09:32	JNS
Semi Volatile Organic Compounds (GC/MS) by Method 8270D	WG995531	1	07/06/17 10:21	07/06/17 17:38	KMP

BP-3000-4000-COMP L919054-03 Solid

Collected by: AR/KS | Collected date/time: 06/27/17 13:55 | Received date/time: 06/28/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Calculated Results	WG994491	1	06/29/17 22:51	07/05/17 15:52	MA
Total Solids by Method 2540 G-2011	WG994734	1	06/30/17 17:35	06/30/17 17:42	MLW
Wet Chemistry by Method 3060A/7196A	WG993758	1	07/05/17 10:15	07/05/17 15:52	MA
Wet Chemistry by Method 9012B	WG994077	1	06/30/17 12:51	07/03/17 20:28	ASK
Mercury by Method 7471A	WG993877	1	06/28/17 14:47	07/03/17 12:26	EL
Metals (ICP) by Method 6010B	WG994491	1	06/29/17 22:51	07/03/17 02:21	CCE
Pesticides (GC) by Method 8081	WG995401	1	07/06/17 06:57	07/06/17 18:42	VKS
Polychlorinated Biphenyls (GC) by Method 8082	WG996302	1	07/07/17 07:04	07/07/17 09:45	JNS
Semi Volatile Organic Compounds (GC/MS) by Method 8270D	WG995531	1	07/06/17 10:21	07/06/17 18:03	KMP

BP-4000-5000-COMP L919054-04 Solid

Collected by: AR/KS | Collected date/time: 06/27/17 14:15 | Received date/time: 06/28/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Calculated Results	WG994491	1	06/29/17 22:51	07/05/17 15:52	MA
Total Solids by Method 2540 G-2011	WG994742	1	06/30/17 17:08	06/30/17 17:17	MLW
Wet Chemistry by Method 3060A/7196A	WG993758	1	07/05/17 10:15	07/05/17 15:52	MA
Wet Chemistry by Method 9012B	WG994077	1	06/30/17 12:51	07/03/17 20:29	ASK
Mercury by Method 7471A	WG993877	1	06/28/17 14:47	07/03/17 12:29	EL
Metals (ICP) by Method 6010B	WG994491	1	06/29/17 22:51	07/03/17 01:18	CCE
Pesticides (GC) by Method 8081	WG995401	1	07/06/17 06:57	07/06/17 18:54	VKS
Polychlorinated Biphenyls (GC) by Method 8082	WG996302	1	07/07/17 07:04	07/07/17 10:05	JNS
Semi Volatile Organic Compounds (GC/MS) by Method 8270D	WG995531	1	07/06/17 10:21	07/06/17 18:29	KMP

BP-1000-2000-GRAB #1 L919054-05 Solid

Collected by: AR/KS | Collected date/time: 06/27/17 13:20 | Received date/time: 06/28/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG994742	1	06/30/17 17:08	06/30/17 17:17	MLW
Volatile Organic Compounds (GC/MS) by Method 8260C	WG995122	1	06/27/17 13:20	07/02/17 16:00	ACG

BP-1000-2000-GRAB #2 L919054-06 Solid

Collected by: AR/KS | Collected date/time: 06/27/17 13:30 | Received date/time: 06/28/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG994734	1	06/30/17 17:35	06/30/17 17:42	MLW
Volatile Organic Compounds (GC/MS) by Method 8260C	WG995122	1	06/27/17 13:30	07/02/17 16:17	ACG

BP-2000-3000-GRAB #1 L919054-07 Solid

Collected by: AR/KS | Collected date/time: 06/27/17 13:40 | Received date/time: 06/28/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG994736	1	06/30/17 17:27	06/30/17 17:34	MLW
Volatile Organic Compounds (GC/MS) by Method 8260C	WG995122	1.04	06/27/17 13:40	07/02/17 16:34	ACG

BP-2000-3000-GRAB #2 L919054-08 Solid

Collected by: AR/KS | Collected date/time: 06/27/17 13:50 | Received date/time: 06/28/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG994736	1	06/30/17 17:27	06/30/17 17:34	MLW
Volatile Organic Compounds (GC/MS) by Method 8260C	WG995122	1	06/27/17 13:50	07/02/17 16:52	ACG

BP-3000-4000-GRAB #1 L919054-09 Solid

Collected by: AR/KS | Collected date/time: 06/27/17 14:00 | Received date/time: 06/28/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG994738	1	06/30/17 17:18	06/30/17 17:27	MLW
Volatile Organic Compounds (GC/MS) by Method 8260C	WG995122	1	06/27/17 14:00	07/02/17 17:09	ACG

BP-3000-4000-GRAB #2 L919054-10 Solid

Collected by: AR/KS | Collected date/time: 06/27/17 14:10 | Received date/time: 06/28/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG994743	1	06/30/17 16:59	06/30/17 17:07	MLW
Volatile Organic Compounds (GC/MS) by Method 8260C	WG995122	1.01	06/27/17 14:10	07/02/17 17:27	ACG

BP-4000-5000-GRAB #1 L919054-11 Solid

Collected by: AR/KS | Collected date/time: 06/27/17 14:20 | Received date/time: 06/28/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG994750	1	06/30/17 16:39	06/30/17 16:48	MLW
Volatile Organic Compounds (GC/MS) by Method 8260C	WG995122	1.31	06/27/17 14:20	07/02/17 17:44	ACG

BP-4000-5000-GRAB #2 L919054-12 Solid

Collected by	Collected date/time	Received date/time
AR/KS	06/27/17 14:25	06/28/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG994750	1	06/30/17 16:39	06/30/17 16:48	MLW
Volatile Organic Compounds (GC/MS) by Method 8260C	WG995122	1	06/27/17 14:25	07/02/17 18:01	ACG

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. All MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



T. Alan Harvill
Technical Service Representative

Calculated Results

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chromium,Trivalent	11.4		0.145	1.03	1	07/05/2017 15:49	WG994491

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	96.7		1	06/30/2017 17:34	WG994736

Wet Chemistry by Method 3060A/7196A

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chromium,Hexavalent	U		0.662	2.07	1	07/05/2017 15:49	WG993758

Wet Chemistry by Method 9012B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Cyanide	U		0.0404	0.259	1	07/03/2017 20:26	WG994077

Mercury by Method 7471A

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Mercury	0.0124	J	0.00290	0.0207	1	07/03/2017 12:14	WG993877

Metals (ICP) by Method 6010B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Arsenic	4.63		0.673	2.07	1	07/03/2017 02:15	WG994491
Barium	52.5		0.176	0.517	1	07/03/2017 02:15	WG994491
Beryllium	0.334		0.0724	0.207	1	07/03/2017 02:15	WG994491
Cadmium	U		0.0724	0.517	1	07/03/2017 02:15	WG994491
Chromium	11.4		0.145	1.03	1	07/03/2017 02:15	WG994491
Copper	28.0		0.548	2.07	1	07/03/2017 02:15	WG994491
Lead	7.49		0.197	0.517	1	07/03/2017 02:15	WG994491
Manganese	547		0.124	1.03	1	07/03/2017 02:15	WG994491
Nickel	19.6		0.507	2.07	1	07/03/2017 02:15	WG994491
Silver	U		0.290	1.03	1	07/03/2017 02:15	WG994491
Zinc	79.2		0.610	5.17	1	07/03/2017 02:15	WG994491

Pesticides (GC) by Method 8081

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Aldrin	U		0.00140	0.0207	1	07/06/2017 18:17	WG995401
Alpha BHC	U		0.00141	0.0207	1	07/06/2017 18:17	WG995401
Beta BHC	U		0.00166	0.0207	1	07/06/2017 18:17	WG995401
Delta BHC	U		0.00148	0.0207	1	07/06/2017 18:17	WG995401
Gamma BHC	U		0.00150	0.0207	1	07/06/2017 18:17	WG995401
Chlordane	U		0.0404	0.207	1	07/06/2017 18:17	WG995401
4,4-DDD	U		0.00161	0.0207	1	07/06/2017 18:17	WG995401
4,4-DDE	U		0.00159	0.0207	1	07/06/2017 18:17	WG995401
4,4-DDT	U		0.00207	0.0207	1	07/06/2017 18:17	WG995401
Dieldrin	U		0.00157	0.0207	1	07/06/2017 18:17	WG995401
Endosulfan I	U		0.00154	0.0207	1	07/06/2017 18:17	WG995401
Endosulfan II	U		0.00166	0.0207	1	07/06/2017 18:17	WG995401
Endosulfan sulfate	U		0.00156	0.0207	1	07/06/2017 18:17	WG995401

Pesticides (GC) by Method 8081

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Endrin	U		0.00162	0.0207	1	07/06/2017 18:17	WG995401
Endrin aldehyde	U		0.00133	0.0207	1	07/06/2017 18:17	WG995401
Endrin ketone	U		0.00171	0.0207	1	07/06/2017 18:17	WG995401
Heptachlor	U		0.00159	0.0207	1	07/06/2017 18:17	WG995401
Heptachlor epoxide	U		0.00167	0.0207	1	07/06/2017 18:17	WG995401
Hexachlorobenzene	U		0.00128	0.0207	1	07/06/2017 18:17	WG995401
Methoxychlor	U		0.00184	0.0207	1	07/06/2017 18:17	WG995401
Toxaphene	U		0.0372	0.414	1	07/06/2017 18:17	WG995401
(S) Decachlorobiphenyl	*51.4*			*10.0-148*		*07/06/2017 18:17*	WG995401
(S) Tetrachloro-m-xylene	*69.8*			*21.0-146*		*07/06/2017 18:17*	WG995401

Polychlorinated Biphenyls (GC) by Method 8082

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
PCB 1016	U		0.00362	0.0176	1	07/07/2017 09:20	WG996302
PCB 1221	U		0.00556	0.0176	1	07/07/2017 09:20	WG996302
PCB 1232	U		0.00431	0.0176	1	07/07/2017 09:20	WG996302
PCB 1242	U		0.00329	0.0176	1	07/07/2017 09:20	WG996302
PCB 1248	U		0.00326	0.0176	1	07/07/2017 09:20	WG996302
PCB 1254	U		0.00488	0.0176	1	07/07/2017 09:20	WG996302
PCB 1260	U		0.00511	0.0176	1	07/07/2017 09:20	WG996302
(S) Decachlorobiphenyl	*93.4*			*10.0-148*		*07/07/2017 09:20*	WG996302
(S) Tetrachloro-m-xylene	*85.9*			*21.0-146*		*07/07/2017 09:20*	WG996302

Semi Volatile Organic Compounds (GC/MS) by Method 8270D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	U		0.00664	0.0341	1	07/06/2017 17:13	WG995531
Acenaphthylene	U		0.00694	0.0341	1	07/06/2017 17:13	WG995531
Anthracene	U		0.00654	0.0341	1	07/06/2017 17:13	WG995531
Benzidine	U	J4	0.0659	0.345	1	07/06/2017 17:13	WG995531
Benzo(a)anthracene	U		0.00443	0.0341	1	07/06/2017 17:13	WG995531
Benzo(b)fluoranthene	U		0.00719	0.0341	1	07/06/2017 17:13	WG995531
Benzo(k)fluoranthene	U		0.00602	0.0341	1	07/06/2017 17:13	WG995531
Benzo(g,h,i)perylene	U		0.00746	0.0341	1	07/06/2017 17:13	WG995531
Benzo(a)pyrene	U		0.00567	0.0341	1	07/06/2017 17:13	WG995531
Bis(2-chlorethoxy)methane	U		0.00797	0.345	1	07/06/2017 17:13	WG995531
Bis(2-chloroethyl)ether	U		0.00927	0.345	1	07/06/2017 17:13	WG995531
Bis(2-chloroisopropyl)ether	U		0.00786	0.345	1	07/06/2017 17:13	WG995531
4-Bromophenyl-phenylether	U		0.0118	0.345	1	07/06/2017 17:13	WG995531
2-Chloronaphthalene	U		0.00661	0.0341	1	07/06/2017 17:13	WG995531
4-Chlorophenyl-phenylether	U		0.00649	0.345	1	07/06/2017 17:13	WG995531
Chrysene	U		0.00574	0.0341	1	07/06/2017 17:13	WG995531
Dibenz(a,h)anthracene	U		0.00849	0.0341	1	07/06/2017 17:13	WG995531
3,3-Dichlorobenzidine	U		0.0822	0.345	1	07/06/2017 17:13	WG995531
2,4-Dinitrotoluene	U		0.00628	0.345	1	07/06/2017 17:13	WG995531
2,6-Dinitrotoluene	U		0.00763	0.345	1	07/06/2017 17:13	WG995531
Fluoranthene	U		0.00513	0.0341	1	07/06/2017 17:13	WG995531
Fluorene	U		0.00706	0.0341	1	07/06/2017 17:13	WG995531
Hexachlorobenzene	U		0.00886	0.345	1	07/06/2017 17:13	WG995531
Hexachloro-1,3-butadiene	U		0.0103	0.345	1	07/06/2017 17:13	WG995531
Hexachlorocyclopentadiene	U		0.0607	0.345	1	07/06/2017 17:13	WG995531
Hexachloroethane	U		0.0139	0.345	1	07/06/2017 17:13	WG995531
Indeno(1,2,3-cd)pyrene	U		0.00799	0.0341	1	07/06/2017 17:13	WG995531
Isophorone	U		0.00540	0.345	1	07/06/2017 17:13	WG995531

Semi Volatile Organic Compounds (GC/MS) by Method 8270D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Naphthalene	U		0.00920	0.0341	1	07/06/2017 17:13	WG995531
Nitrobenzene	U		0.00719	0.345	1	07/06/2017 17:13	WG995531
n-Nitrosodimethylamine	U		0.0669	0.345	1	07/06/2017 17:13	WG995531
n-Nitrosodiphenylamine	U		0.00615	0.345	1	07/06/2017 17:13	WG995531
n-Nitrosodi-n-propylamine	U		0.00937	0.345	1	07/06/2017 17:13	WG995531
Phenanthrene	U		0.00546	0.0341	1	07/06/2017 17:13	WG995531
Benzylbutyl phthalate	U		0.0107	0.345	1	07/06/2017 17:13	WG995531
Bis(2-ethylhexyl)phthalate	U		0.0124	0.345	1	07/06/2017 17:13	WG995531
Di-n-butyl phthalate	U		0.0113	0.345	1	07/06/2017 17:13	WG995531
Diethyl phthalate	U		0.00715	0.345	1	07/06/2017 17:13	WG995531
Dimethyl phthalate	U		0.00559	0.345	1	07/06/2017 17:13	WG995531
Di-n-octyl phthalate	U		0.00938	0.345	1	07/06/2017 17:13	WG995531
Pyrene	U		0.0127	0.0341	1	07/06/2017 17:13	WG995531
1,2,4-Trichlorobenzene	U		0.00906	0.345	1	07/06/2017 17:13	WG995531
4-Chloro-3-methylphenol	U		0.00494	0.345	1	07/06/2017 17:13	WG995531
2-Chlorophenol	U		0.00860	0.345	1	07/06/2017 17:13	WG995531
2,4-Dichlorophenol	U		0.00772	0.345	1	07/06/2017 17:13	WG995531
2,4-Dimethylphenol	U		0.0487	0.345	1	07/06/2017 17:13	WG995531
4,6-Dinitro-2-methylphenol	U		0.128	0.345	1	07/06/2017 17:13	WG995531
2,4-Dinitrophenol	U		0.101	0.345	1	07/06/2017 17:13	WG995531
2-Nitrophenol	U		0.0135	0.345	1	07/06/2017 17:13	WG995531
4-Nitrophenol	U		0.0543	0.345	1	07/06/2017 17:13	WG995531
Pentachlorophenol	U		0.0497	0.345	1	07/06/2017 17:13	WG995531
Phenol	U		0.00719	0.345	1	07/06/2017 17:13	WG995531
2,4,6-Trichlorophenol	U		0.00806	0.345	1	07/06/2017 17:13	WG995531
(S) 2-Fluorophenol	*61.9*			*20.0-120*		*07/06/2017 17:13*	WG995531
(S) Phenol-d5	*66.4*			*20.0-120*		*07/06/2017 17:13*	WG995531
(S) Nitrobenzene-d5	*66.0*			*18.0-125*		*07/06/2017 17:13*	WG995531
(S) 2-Fluorobiphenyl	*67.7*			*28.0-120*		*07/06/2017 17:13*	WG995531
(S) 2,4,6-Tribromophenol	*84.7*			*17.0-137*		*07/06/2017 17:13*	WG995531
(S) p-Terphenyl-d14	*66.4*			*13.0-131*		*07/06/2017 17:13*	WG995531

Calculated Results

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chromium,Trivalent	10.4		0.144	1.03	1	07/05/2017 15:51	WG994491

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	97.3		1	06/30/2017 17:07	WG994743

Wet Chemistry by Method 3060A/7196A

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chromium,Hexavalent	0.987	J	0.658	2.06	1	07/05/2017 15:51	WG993758

Wet Chemistry by Method 9012B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Cyanide	U		0.0401	0.257	1	07/03/2017 20:27	WG994077

Mercury by Method 7471A

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Mercury	0.00781	J	0.00288	0.0206	1	07/03/2017 12:24	WG993877

Metals (ICP) by Method 6010B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Arsenic	5.15		0.668	2.06	1	07/03/2017 02:18	WG994491
Barium	55.1		0.175	0.514	1	07/03/2017 02:18	WG994491
Beryllium	0.369		0.0719	0.206	1	07/03/2017 02:18	WG994491
Cadmium	U		0.0719	0.514	1	07/03/2017 02:18	WG994491
Chromium	11.4		0.144	1.03	1	07/03/2017 02:18	WG994491
Copper	22.9		0.545	2.06	1	07/03/2017 02:18	WG994491
Lead	8.14		0.195	0.514	1	07/03/2017 02:18	WG994491
Manganese	305		0.123	1.03	1	07/03/2017 02:18	WG994491
Nickel	19.0		0.504	2.06	1	07/03/2017 02:18	WG994491
Silver	U		0.288	1.03	1	07/03/2017 02:18	WG994491
Zinc	75.4		0.606	5.14	1	07/03/2017 02:18	WG994491

Pesticides (GC) by Method 8081

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Aldrin	U		0.00139	0.0206	1	07/06/2017 18:29	WG995401
Alpha BHC	U		0.00140	0.0206	1	07/06/2017 18:29	WG995401
Beta BHC	U		0.00164	0.0206	1	07/06/2017 18:29	WG995401
Delta BHC	U		0.00147	0.0206	1	07/06/2017 18:29	WG995401
Gamma BHC	U		0.00149	0.0206	1	07/06/2017 18:29	WG995401
Chlordane	U		0.0401	0.206	1	07/06/2017 18:29	WG995401
4,4-DDD	U		0.00160	0.0206	1	07/06/2017 18:29	WG995401
4,4-DDE	U		0.00158	0.0206	1	07/06/2017 18:29	WG995401
4,4-DDT	U		0.00206	0.0206	1	07/06/2017 18:29	WG995401
Dieldrin	U		0.00156	0.0206	1	07/06/2017 18:29	WG995401
Endosulfan I	U		0.00153	0.0206	1	07/06/2017 18:29	WG995401
Endosulfan II	U		0.00164	0.0206	1	07/06/2017 18:29	WG995401
Endosulfan sulfate	U		0.00155	0.0206	1	07/06/2017 18:29	WG995401

Pesticides (GC) by Method 8081

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Endrin	U		0.00161	0.0206	1	07/06/2017 18:29	WG995401
Endrin aldehyde	U		0.00133	0.0206	1	07/06/2017 18:29	WG995401
Endrin ketone	U		0.00170	0.0206	1	07/06/2017 18:29	WG995401
Heptachlor	U		0.00158	0.0206	1	07/06/2017 18:29	WG995401
Heptachlor epoxide	U		0.00165	0.0206	1	07/06/2017 18:29	WG995401
Hexachlorobenzene	U		0.00127	0.0206	1	07/06/2017 18:29	WG995401
Methoxychlor	U		0.00183	0.0206	1	07/06/2017 18:29	WG995401
Toxaphene	U		0.0370	0.411	1	07/06/2017 18:29	WG995401
(S) Decachlorobiphenyl	*56.0*			*10.0-148*		*07/06/2017 18:29*	WG995401
(S) Tetrachloro-m-xylene	*75.4*			*21.0-146*		*07/06/2017 18:29*	WG995401

Polychlorinated Biphenyls (GC) by Method 8082

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
PCB 1016	U		0.00360	0.0175	1	07/07/2017 09:32	WG996302
PCB 1221	U		0.00552	0.0175	1	07/07/2017 09:32	WG996302
PCB 1232	U		0.00429	0.0175	1	07/07/2017 09:32	WG996302
PCB 1242	U		0.00327	0.0175	1	07/07/2017 09:32	WG996302
PCB 1248	U		0.00324	0.0175	1	07/07/2017 09:32	WG996302
PCB 1254	U		0.00485	0.0175	1	07/07/2017 09:32	WG996302
PCB 1260	U		0.00508	0.0175	1	07/07/2017 09:32	WG996302
(S) Decachlorobiphenyl	*90.4*			*10.0-148*		*07/07/2017 09:32*	WG996302
(S) Tetrachloro-m-xylene	*83.8*			*21.0-146*		*07/07/2017 09:32*	WG996302

Semi Volatile Organic Compounds (GC/MS) by Method 8270D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	U		0.00660	0.0339	1	07/06/2017 17:38	WG995531
Acenaphthylene	U		0.00690	0.0339	1	07/06/2017 17:38	WG995531
Anthracene	U		0.00649	0.0339	1	07/06/2017 17:38	WG995531
Benzidine	U	J4	0.0655	0.342	1	07/06/2017 17:38	WG995531
Benzo(a)anthracene	U		0.00440	0.0339	1	07/06/2017 17:38	WG995531
Benzo(b)fluoranthene	U		0.00714	0.0339	1	07/06/2017 17:38	WG995531
Benzo(k)fluoranthene	U		0.00598	0.0339	1	07/06/2017 17:38	WG995531
Benzo(g,h,i)perylene	U		0.00741	0.0339	1	07/06/2017 17:38	WG995531
Benzo(a)pyrene	U		0.00563	0.0339	1	07/06/2017 17:38	WG995531
Bis(2-chlorethoxy)methane	U		0.00791	0.342	1	07/06/2017 17:38	WG995531
Bis(2-chloroethyl)ether	U		0.00921	0.342	1	07/06/2017 17:38	WG995531
Bis(2-chloroisopropyl)ether	U		0.00781	0.342	1	07/06/2017 17:38	WG995531
4-Bromophenyl-phenylether	U		0.0117	0.342	1	07/06/2017 17:38	WG995531
2-Chloronaphthalene	U		0.00657	0.0339	1	07/06/2017 17:38	WG995531
4-Chlorophenyl-phenylether	U		0.00644	0.342	1	07/06/2017 17:38	WG995531
Chrysene	U		0.00570	0.0339	1	07/06/2017 17:38	WG995531
Dibenz(a,h)anthracene	U		0.00844	0.0339	1	07/06/2017 17:38	WG995531
3,3-Dichlorobenzidine	U		0.0816	0.342	1	07/06/2017 17:38	WG995531
2,4-Dinitrotoluene	U		0.00624	0.342	1	07/06/2017 17:38	WG995531
2,6-Dinitrotoluene	U		0.00757	0.342	1	07/06/2017 17:38	WG995531
Fluoranthene	U		0.00510	0.0339	1	07/06/2017 17:38	WG995531
Fluorene	U		0.00701	0.0339	1	07/06/2017 17:38	WG995531
Hexachlorobenzene	U		0.00880	0.342	1	07/06/2017 17:38	WG995531
Hexachloro-1,3-butadiene	U		0.0103	0.342	1	07/06/2017 17:38	WG995531
Hexachlorocyclopentadiene	U		0.0603	0.342	1	07/06/2017 17:38	WG995531
Hexachloroethane	U		0.0138	0.342	1	07/06/2017 17:38	WG995531
Indeno(1,2,3-cd)pyrene	U		0.00793	0.0339	1	07/06/2017 17:38	WG995531
Isophorone	U		0.00536	0.342	1	07/06/2017 17:38	WG995531

Semi Volatile Organic Compounds (GC/MS) by Method 8270D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Naphthalene	U		0.00914	0.0339	1	07/06/2017 17:38	WG995531
Nitrobenzene	U		0.00714	0.342	1	07/06/2017 17:38	WG995531
n-Nitrosodimethylamine	U		0.0665	0.342	1	07/06/2017 17:38	WG995531
n-Nitrosodiphenylamine	U		0.00610	0.342	1	07/06/2017 17:38	WG995531
n-Nitrosodi-n-propylamine	U		0.00931	0.342	1	07/06/2017 17:38	WG995531
Phenanthrene	U		0.00543	0.0339	1	07/06/2017 17:38	WG995531
Benzylbutyl phthalate	U		0.0106	0.342	1	07/06/2017 17:38	WG995531
Bis(2-ethylhexyl)phthalate	U		0.0123	0.342	1	07/06/2017 17:38	WG995531
Di-n-butyl phthalate	U		0.0112	0.342	1	07/06/2017 17:38	WG995531
Diethyl phthalate	U		0.00710	0.342	1	07/06/2017 17:38	WG995531
Dimethyl phthalate	U		0.00555	0.342	1	07/06/2017 17:38	WG995531
Di-n-octyl phthalate	U		0.00932	0.342	1	07/06/2017 17:38	WG995531
Pyrene	U		0.0126	0.0339	1	07/06/2017 17:38	WG995531
1,2,4-Trichlorobenzene	U		0.00900	0.342	1	07/06/2017 17:38	WG995531
4-Chloro-3-methylphenol	U		0.00490	0.342	1	07/06/2017 17:38	WG995531
2-Chlorophenol	U		0.00854	0.342	1	07/06/2017 17:38	WG995531
2,4-Dichlorophenol	U		0.00767	0.342	1	07/06/2017 17:38	WG995531
2,4-Dimethylphenol	U		0.0484	0.342	1	07/06/2017 17:38	WG995531
4,6-Dinitro-2-methylphenol	U		0.127	0.342	1	07/06/2017 17:38	WG995531
2,4-Dinitrophenol	U		0.101	0.342	1	07/06/2017 17:38	WG995531
2-Nitrophenol	U		0.0134	0.342	1	07/06/2017 17:38	WG995531
4-Nitrophenol	U		0.0540	0.342	1	07/06/2017 17:38	WG995531
Pentachlorophenol	U		0.0493	0.342	1	07/06/2017 17:38	WG995531
Phenol	U		0.00714	0.342	1	07/06/2017 17:38	WG995531
2,4,6-Trichlorophenol	U		0.00801	0.342	1	07/06/2017 17:38	WG995531
(S) 2-Fluorophenol	*67.9*			*20.0-120*		*07/06/2017 17:38*	WG995531
(S) Phenol-d5	*77.4*			*20.0-120*		*07/06/2017 17:38*	WG995531
(S) Nitrobenzene-d5	*82.5*			*18.0-125*		*07/06/2017 17:38*	WG995531
(S) 2-Fluorobiphenyl	*78.6*			*28.0-120*		*07/06/2017 17:38*	WG995531
(S) 2,4,6-Tribromophenol	*102*			*17.0-137*		*07/06/2017 17:38*	WG995531
(S) p-Terphenyl-d14	*76.1*			*13.0-131*		*07/06/2017 17:38*	WG995531

Calculated Results

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chromium,Trivalent	11.6		0.144	1.03	1	07/05/2017 15:52	WG994491

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	97.0		1	06/30/2017 17:42	WG994734

Wet Chemistry by Method 3060A/7196A

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chromium,Hexavalent	U		0.660	2.06	1	07/05/2017 15:52	WG993758

Wet Chemistry by Method 9012B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Cyanide	U		0.0402	0.258	1	07/03/2017 20:28	WG994077

Mercury by Method 7471A

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Mercury	0.0121	J	0.00289	0.0206	1	07/03/2017 12:26	WG993877

Metals (ICP) by Method 6010B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Arsenic	5.06		0.670	2.06	1	07/03/2017 02:21	WG994491
Barium	55.1		0.175	0.516	1	07/03/2017 02:21	WG994491
Beryllium	0.384		0.0722	0.206	1	07/03/2017 02:21	WG994491
Cadmium	U		0.0722	0.516	1	07/03/2017 02:21	WG994491
Chromium	11.6		0.144	1.03	1	07/03/2017 02:21	WG994491
Copper	25.0		0.547	2.06	1	07/03/2017 02:21	WG994491
Lead	9.75		0.196	0.516	1	07/03/2017 02:21	WG994491
Manganese	412		0.124	1.03	1	07/03/2017 02:21	WG994491
Nickel	20.0		0.505	2.06	1	07/03/2017 02:21	WG994491
Silver	U		0.289	1.03	1	07/03/2017 02:21	WG994491
Zinc	75.4		0.608	5.16	1	07/03/2017 02:21	WG994491

Pesticides (GC) by Method 8081

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Aldrin	U		0.00139	0.0206	1	07/06/2017 18:42	WG995401
Alpha BHC	U		0.00140	0.0206	1	07/06/2017 18:42	WG995401
Beta BHC	U		0.00165	0.0206	1	07/06/2017 18:42	WG995401
Delta BHC	U		0.00147	0.0206	1	07/06/2017 18:42	WG995401
Gamma BHC	U		0.00150	0.0206	1	07/06/2017 18:42	WG995401
Chlordane	U		0.0402	0.206	1	07/06/2017 18:42	WG995401
4,4-DDD	U		0.00161	0.0206	1	07/06/2017 18:42	WG995401
4,4-DDE	U		0.00159	0.0206	1	07/06/2017 18:42	WG995401
4,4-DDT	U		0.00206	0.0206	1	07/06/2017 18:42	WG995401
Dieldrin	U		0.00157	0.0206	1	07/06/2017 18:42	WG995401
Endosulfan I	U		0.00154	0.0206	1	07/06/2017 18:42	WG995401
Endosulfan II	U		0.00165	0.0206	1	07/06/2017 18:42	WG995401
Endosulfan sulfate	U		0.00156	0.0206	1	07/06/2017 18:42	WG995401

Pesticides (GC) by Method 8081

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Endrin	U		0.00162	0.0206	1	07/06/2017 18:42	WG995401
Endrin aldehyde	U		0.00133	0.0206	1	07/06/2017 18:42	WG995401
Endrin ketone	U		0.00170	0.0206	1	07/06/2017 18:42	WG995401
Heptachlor	U		0.00159	0.0206	1	07/06/2017 18:42	WG995401
Heptachlor epoxide	U		0.00166	0.0206	1	07/06/2017 18:42	WG995401
Hexachlorobenzene	U		0.00128	0.0206	1	07/06/2017 18:42	WG995401
Methoxychlor	U		0.00184	0.0206	1	07/06/2017 18:42	WG995401
Toxaphene	U		0.0371	0.412	1	07/06/2017 18:42	WG995401
(S) Decachlorobiphenyl	*51.5*			*10.0-148*		*07/06/2017 18:42*	WG995401
(S) Tetrachloro-m-xylene	*67.8*			*21.0-146*		*07/06/2017 18:42*	WG995401

Polychlorinated Biphenyls (GC) by Method 8082

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
PCB 1016	U		0.00361	0.0175	1	07/07/2017 09:45	WG996302
PCB 1221	U		0.00554	0.0175	1	07/07/2017 09:45	WG996302
PCB 1232	U		0.00430	0.0175	1	07/07/2017 09:45	WG996302
PCB 1242	U		0.00328	0.0175	1	07/07/2017 09:45	WG996302
PCB 1248	U		0.00325	0.0175	1	07/07/2017 09:45	WG996302
PCB 1254	U		0.00487	0.0175	1	07/07/2017 09:45	WG996302
PCB 1260	U		0.00509	0.0175	1	07/07/2017 09:45	WG996302
(S) Decachlorobiphenyl	*92.5*			*10.0-148*		*07/07/2017 09:45*	WG996302
(S) Tetrachloro-m-xylene	*79.8*			*21.0-146*		*07/07/2017 09:45*	WG996302

Semi Volatile Organic Compounds (GC/MS) by Method 8270D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	U		0.00662	0.0340	1	07/06/2017 18:03	WG995531
Acenaphthylene	U		0.00692	0.0340	1	07/06/2017 18:03	WG995531
Anthracene	U		0.00652	0.0340	1	07/06/2017 18:03	WG995531
Benzidine	U	J4	0.0657	0.343	1	07/06/2017 18:03	WG995531
Benzo(a)anthracene	U		0.00441	0.0340	1	07/06/2017 18:03	WG995531
Benzo(b)fluoranthene	U		0.00717	0.0340	1	07/06/2017 18:03	WG995531
Benzo(k)fluoranthene	U		0.00600	0.0340	1	07/06/2017 18:03	WG995531
Benzo(g,h,i)perylene	U		0.00743	0.0340	1	07/06/2017 18:03	WG995531
Benzo(a)pyrene	U		0.00565	0.0340	1	07/06/2017 18:03	WG995531
Bis(2-chlorethoxy)methane	U		0.00794	0.343	1	07/06/2017 18:03	WG995531
Bis(2-chloroethyl)ether	U		0.00924	0.343	1	07/06/2017 18:03	WG995531
Bis(2-chloroisopropyl)ether	U		0.00784	0.343	1	07/06/2017 18:03	WG995531
4-Bromophenyl-phenylether	U		0.0118	0.343	1	07/06/2017 18:03	WG995531
2-Chloronaphthalene	U		0.00659	0.0340	1	07/06/2017 18:03	WG995531
4-Chlorophenyl-phenylether	U		0.00647	0.343	1	07/06/2017 18:03	WG995531
Chrysene	U		0.00572	0.0340	1	07/06/2017 18:03	WG995531
Dibenz(a,h)anthracene	U		0.00847	0.0340	1	07/06/2017 18:03	WG995531
3,3-Dichlorobenzidine	U		0.0819	0.343	1	07/06/2017 18:03	WG995531
2,4-Dinitrotoluene	U		0.00626	0.343	1	07/06/2017 18:03	WG995531
2,6-Dinitrotoluene	U		0.00760	0.343	1	07/06/2017 18:03	WG995531
Fluoranthene	U		0.00511	0.0340	1	07/06/2017 18:03	WG995531
Fluorene	U		0.00703	0.0340	1	07/06/2017 18:03	WG995531
Hexachlorobenzene	U		0.00883	0.343	1	07/06/2017 18:03	WG995531
Hexachloro-1,3-butadiene	U		0.0103	0.343	1	07/06/2017 18:03	WG995531
Hexachlorocyclopentadiene	U		0.0605	0.343	1	07/06/2017 18:03	WG995531
Hexachloroethane	U		0.0138	0.343	1	07/06/2017 18:03	WG995531
Indeno(1,2,3-cd)pyrene	U		0.00796	0.0340	1	07/06/2017 18:03	WG995531
Isophorone	U		0.00538	0.343	1	07/06/2017 18:03	WG995531

Semi Volatile Organic Compounds (GC/MS) by Method 8270D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Naphthalene	U		0.00917	0.0340	1	07/06/2017 18:03	WG995531
Nitrobenzene	U		0.00717	0.343	1	07/06/2017 18:03	WG995531
n-Nitrosodimethylamine	U		0.0667	0.343	1	07/06/2017 18:03	WG995531
n-Nitrosodiphenylamine	U		0.00613	0.343	1	07/06/2017 18:03	WG995531
n-Nitrosodi-n-propylamine	U		0.00934	0.343	1	07/06/2017 18:03	WG995531
Phenanthrene	U		0.00544	0.0340	1	07/06/2017 18:03	WG995531
Benzylbutyl phthalate	U		0.0106	0.343	1	07/06/2017 18:03	WG995531
Bis(2-ethylhexyl)phthalate	U		0.0124	0.343	1	07/06/2017 18:03	WG995531
Di-n-butyl phthalate	U		0.0112	0.343	1	07/06/2017 18:03	WG995531
Diethyl phthalate	U		0.00713	0.343	1	07/06/2017 18:03	WG995531
Dimethyl phthalate	U		0.00557	0.343	1	07/06/2017 18:03	WG995531
Di-n-octyl phthalate	U		0.00935	0.343	1	07/06/2017 18:03	WG995531
Pyrene	U		0.0127	0.0340	1	07/06/2017 18:03	WG995531
1,2,4-Trichlorobenzene	U		0.00903	0.343	1	07/06/2017 18:03	WG995531
4-Chloro-3-methylphenol	U		0.00492	0.343	1	07/06/2017 18:03	WG995531
2-Chlorophenol	U		0.00857	0.343	1	07/06/2017 18:03	WG995531
2,4-Dichlorophenol	U		0.00769	0.343	1	07/06/2017 18:03	WG995531
2,4-Dimethylphenol	U		0.0486	0.343	1	07/06/2017 18:03	WG995531
4,6-Dinitro-2-methylphenol	U		0.128	0.343	1	07/06/2017 18:03	WG995531
2,4-Dinitrophenol	U		0.101	0.343	1	07/06/2017 18:03	WG995531
2-Nitrophenol	U		0.0134	0.343	1	07/06/2017 18:03	WG995531
4-Nitrophenol	U		0.0541	0.343	1	07/06/2017 18:03	WG995531
Pentachlorophenol	U		0.0495	0.343	1	07/06/2017 18:03	WG995531
Phenol	U		0.00717	0.343	1	07/06/2017 18:03	WG995531
2,4,6-Trichlorophenol	U		0.00803	0.343	1	07/06/2017 18:03	WG995531
(S) 2-Fluorophenol	*66.3*			*20.0-120*		*07/06/2017 18:03*	WG995531
(S) Phenol-d5	*72.9*			*20.0-120*		*07/06/2017 18:03*	WG995531
(S) Nitrobenzene-d5	*73.6*			*18.0-125*		*07/06/2017 18:03*	WG995531
(S) 2-Fluorobiphenyl	*74.6*			*28.0-120*		*07/06/2017 18:03*	WG995531
(S) 2,4,6-Tribromophenol	*98.7*			*17.0-137*		*07/06/2017 18:03*	WG995531
(S) p-Terphenyl-d14	*76.3*			*13.0-131*		*07/06/2017 18:03*	WG995531

Calculated Results

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chromium,Trivalent	12.0		0.146	1.04	1	07/05/2017 15:52	WG994491

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	96.1		1	06/30/2017 17:17	WG994742

Wet Chemistry by Method 3060A/7196A

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chromium,Hexavalent	U		0.666	2.08	1	07/05/2017 15:52	WG993758

Wet Chemistry by Method 9012B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Cyanide	U		0.0406	0.260	1	07/03/2017 20:29	WG994077

Mercury by Method 7471A

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Mercury	0.0187	J	0.00291	0.0208	1	07/03/2017 12:29	WG993877

Metals (ICP) by Method 6010B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Arsenic	6.12		0.676	2.08	1	07/03/2017 01:18	WG994491
Barium	60.9		0.177	0.520	1	07/03/2017 01:18	WG994491
Beryllium	0.389		0.0728	0.208	1	07/03/2017 01:18	WG994491
Cadmium	U		0.0728	0.520	1	07/03/2017 01:18	WG994491
Chromium	12.0		0.146	1.04	1	07/03/2017 01:18	WG994491
Copper	26.6		0.551	2.08	1	07/03/2017 01:18	WG994491
Lead	12.1		0.198	0.520	1	07/03/2017 01:18	WG994491
Manganese	449	O1 V	0.125	1.04	1	07/03/2017 01:18	WG994491
Nickel	22.8		0.510	2.08	1	07/03/2017 01:18	WG994491
Silver	U		0.291	1.04	1	07/03/2017 01:18	WG994491
Zinc	84.0	J6 O1	0.614	5.20	1	07/03/2017 01:18	WG994491

Pesticides (GC) by Method 8081

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Aldrin	U		0.00140	0.0208	1	07/06/2017 18:54	WG995401
Alpha BHC	U		0.00141	0.0208	1	07/06/2017 18:54	WG995401
Beta BHC	U		0.00166	0.0208	1	07/06/2017 18:54	WG995401
Delta BHC	U		0.00149	0.0208	1	07/06/2017 18:54	WG995401
Gamma BHC	U		0.00151	0.0208	1	07/06/2017 18:54	WG995401
Chlordane	U		0.0406	0.208	1	07/06/2017 18:54	WG995401
4,4-DDD	U		0.00162	0.0208	1	07/06/2017 18:54	WG995401
4,4-DDE	U		0.00160	0.0208	1	07/06/2017 18:54	WG995401
4,4-DDT	U		0.00208	0.0208	1	07/06/2017 18:54	WG995401
Dieldrin	U		0.00158	0.0208	1	07/06/2017 18:54	WG995401
Endosulfan I	U		0.00155	0.0208	1	07/06/2017 18:54	WG995401
Endosulfan II	U		0.00166	0.0208	1	07/06/2017 18:54	WG995401
Endosulfan sulfate	U		0.00157	0.0208	1	07/06/2017 18:54	WG995401

Pesticides (GC) by Method 8081

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Endrin	U		0.00163	0.0208	1	07/06/2017 18:54	WG995401
Endrin aldehyde	U		0.00134	0.0208	1	07/06/2017 18:54	WG995401
Endrin ketone	U		0.00172	0.0208	1	07/06/2017 18:54	WG995401
Heptachlor	U		0.00160	0.0208	1	07/06/2017 18:54	WG995401
Heptachlor epoxide	U		0.00167	0.0208	1	07/06/2017 18:54	WG995401
Hexachlorobenzene	U		0.00129	0.0208	1	07/06/2017 18:54	WG995401
Methoxychlor	U		0.00185	0.0208	1	07/06/2017 18:54	WG995401
Toxaphene	U		0.0374	0.416	1	07/06/2017 18:54	WG995401
(S) Decachlorobiphenyl	*61.3*			*10.0-148*		*07/06/2017 18:54*	WG995401
(S) Tetrachloro-m-xylene	*80.8*			*21.0-146*		*07/06/2017 18:54*	WG995401

Polychlorinated Biphenyls (GC) by Method 8082

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
PCB 1016	U		0.00364	0.0177	1	07/07/2017 10:05	WG996302
PCB 1221	U		0.00559	0.0177	1	07/07/2017 10:05	WG996302
PCB 1232	U		0.00434	0.0177	1	07/07/2017 10:05	WG996302
PCB 1242	U		0.00331	0.0177	1	07/07/2017 10:05	WG996302
PCB 1248	U		0.00328	0.0177	1	07/07/2017 10:05	WG996302
PCB 1254	U		0.00491	0.0177	1	07/07/2017 10:05	WG996302
PCB 1260	U		0.00514	0.0177	1	07/07/2017 10:05	WG996302
(S) Decachlorobiphenyl	*87.7*			*10.0-148*		*07/07/2017 10:05*	WG996302
(S) Tetrachloro-m-xylene	*78.8*			*21.0-146*		*07/07/2017 10:05*	WG996302

Semi Volatile Organic Compounds (GC/MS) by Method 8270D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	U		0.00668	0.0343	1	07/06/2017 18:29	WG995531
Acenaphthylene	U		0.00698	0.0343	1	07/06/2017 18:29	WG995531
Anthracene	U		0.00657	0.0343	1	07/06/2017 18:29	WG995531
Benzidine	U	J4	0.0663	0.346	1	07/06/2017 18:29	WG995531
Benzo(a)anthracene	U		0.00445	0.0343	1	07/06/2017 18:29	WG995531
Benzo(b)fluoranthene	U		0.00723	0.0343	1	07/06/2017 18:29	WG995531
Benzo(k)fluoranthene	U		0.00605	0.0343	1	07/06/2017 18:29	WG995531
Benzo(g,h,i)perylene	U		0.00750	0.0343	1	07/06/2017 18:29	WG995531
Benzo(a)pyrene	U		0.00570	0.0343	1	07/06/2017 18:29	WG995531
Bis(2-chlorethoxy)methane	U		0.00801	0.346	1	07/06/2017 18:29	WG995531
Bis(2-chloroethyl)ether	U		0.00932	0.346	1	07/06/2017 18:29	WG995531
Bis(2-chloroisopropyl)ether	U		0.00791	0.346	1	07/06/2017 18:29	WG995531
4-Bromophenyl-phenylether	U		0.0119	0.346	1	07/06/2017 18:29	WG995531
2-Chloronaphthalene	U		0.00665	0.0343	1	07/06/2017 18:29	WG995531
4-Chlorophenyl-phenylether	U		0.00652	0.346	1	07/06/2017 18:29	WG995531
Chrysene	U		0.00577	0.0343	1	07/06/2017 18:29	WG995531
Dibenz(a,h)anthracene	U		0.00854	0.0343	1	07/06/2017 18:29	WG995531
3,3-Dichlorobenzidine	U		0.0826	0.346	1	07/06/2017 18:29	WG995531
2,4-Dinitrotoluene	U		0.00631	0.346	1	07/06/2017 18:29	WG995531
2,6-Dinitrotoluene	U		0.00767	0.346	1	07/06/2017 18:29	WG995531
Fluoranthene	U		0.00516	0.0343	1	07/06/2017 18:29	WG995531
Fluorene	U		0.00709	0.0343	1	07/06/2017 18:29	WG995531
Hexachlorobenzene	U		0.00890	0.346	1	07/06/2017 18:29	WG995531
Hexachloro-1,3-butadiene	U		0.0104	0.346	1	07/06/2017 18:29	WG995531
Hexachlorocyclopentadiene	U		0.0611	0.346	1	07/06/2017 18:29	WG995531
Hexachloroethane	U		0.0139	0.346	1	07/06/2017 18:29	WG995531
Indeno(1,2,3-cd)pyrene	U		0.00803	0.0343	1	07/06/2017 18:29	WG995531
Isophorone	U		0.00543	0.346	1	07/06/2017 18:29	WG995531

Semi Volatile Organic Compounds (GC/MS) by Method 8270D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Naphthalene	U		0.00925	0.0343	1	07/06/2017 18:29	WG995531
Nitrobenzene	U		0.00723	0.346	1	07/06/2017 18:29	WG995531
n-Nitrosodimethylamine	U		0.0673	0.346	1	07/06/2017 18:29	WG995531
n-Nitrosodiphenylamine	U		0.00618	0.346	1	07/06/2017 18:29	WG995531
n-Nitrosodi-n-propylamine	U		0.00942	0.346	1	07/06/2017 18:29	WG995531
Phenanthrene	U		0.00549	0.0343	1	07/06/2017 18:29	WG995531
Benzylbutyl phthalate	U		0.0107	0.346	1	07/06/2017 18:29	WG995531
Bis(2-ethylhexyl)phthalate	U		0.0125	0.346	1	07/06/2017 18:29	WG995531
Di-n-butyl phthalate	U		0.0113	0.346	1	07/06/2017 18:29	WG995531
Diethyl phthalate	U		0.00719	0.346	1	07/06/2017 18:29	WG995531
Dimethyl phthalate	U		0.00562	0.346	1	07/06/2017 18:29	WG995531
Di-n-octyl phthalate	U		0.00943	0.346	1	07/06/2017 18:29	WG995531
Pyrene	U		0.0128	0.0343	1	07/06/2017 18:29	WG995531
1,2,4-Trichlorobenzene	U		0.00911	0.346	1	07/06/2017 18:29	WG995531
4-Chloro-3-methylphenol	U		0.00496	0.346	1	07/06/2017 18:29	WG995531
2-Chlorophenol	U		0.00864	0.346	1	07/06/2017 18:29	WG995531
2,4-Dichlorophenol	U		0.00776	0.346	1	07/06/2017 18:29	WG995531
2,4-Dimethylphenol	U		0.0490	0.346	1	07/06/2017 18:29	WG995531
4,6-Dinitro-2-methylphenol	U		0.129	0.346	1	07/06/2017 18:29	WG995531
2,4-Dinitrophenol	U		0.102	0.346	1	07/06/2017 18:29	WG995531
2-Nitrophenol	U		0.0135	0.346	1	07/06/2017 18:29	WG995531
4-Nitrophenol	U		0.0546	0.346	1	07/06/2017 18:29	WG995531
Pentachlorophenol	U		0.0499	0.346	1	07/06/2017 18:29	WG995531
Phenol	U		0.00723	0.346	1	07/06/2017 18:29	WG995531
2,4,6-Trichlorophenol	U		0.00810	0.346	1	07/06/2017 18:29	WG995531
(S) 2-Fluorophenol	*68.3*			*20.0-120*		*07/06/2017 18:29*	WG995531
(S) Phenol-d5	*74.7*			*20.0-120*		*07/06/2017 18:29*	WG995531
(S) Nitrobenzene-d5	*83.6*			*18.0-125*		*07/06/2017 18:29*	WG995531
(S) 2-Fluorobiphenyl	*81.4*			*28.0-120*		*07/06/2017 18:29*	WG995531
(S) 2,4,6-Tribromophenol	*94.6*			*17.0-137*		*07/06/2017 18:29*	WG995531
(S) p-Terphenyl-d14	*72.9*			*13.0-131*		*07/06/2017 18:29*	WG995531

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	96.6		1	06/30/2017 17:17	WG994742

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U	J0	0.0103	0.0517	1	07/02/2017 16:00	WG995122
Acrylonitrile	U		0.00185	0.0103	1	07/02/2017 16:00	WG995122
Benzene	0.00293		0.000279	0.00103	1	07/02/2017 16:00	WG995122
Bromobenzene	U		0.000294	0.00103	1	07/02/2017 16:00	WG995122
Bromodichloromethane	U		0.000263	0.00103	1	07/02/2017 16:00	WG995122
Bromoform	U		0.000439	0.00103	1	07/02/2017 16:00	WG995122
Bromomethane	U		0.00139	0.00517	1	07/02/2017 16:00	WG995122
n-Butylbenzene	U		0.000267	0.00103	1	07/02/2017 16:00	WG995122
sec-Butylbenzene	U		0.000208	0.00103	1	07/02/2017 16:00	WG995122
tert-Butylbenzene	U		0.000213	0.00103	1	07/02/2017 16:00	WG995122
Carbon tetrachloride	U		0.000339	0.00103	1	07/02/2017 16:00	WG995122
Chlorobenzene	U		0.000219	0.00103	1	07/02/2017 16:00	WG995122
Chlorodibromomethane	U		0.000386	0.00103	1	07/02/2017 16:00	WG995122
Chloroethane	U		0.000979	0.00517	1	07/02/2017 16:00	WG995122
Chloroform	U		0.000237	0.00517	1	07/02/2017 16:00	WG995122
Chloromethane	U		0.000388	0.00259	1	07/02/2017 16:00	WG995122
2-Chlorotoluene	U		0.000311	0.00103	1	07/02/2017 16:00	WG995122
4-Chlorotoluene	U		0.000248	0.00103	1	07/02/2017 16:00	WG995122
1,2-Dibromo-3-Chloropropane	U	J0	0.00109	0.00517	1	07/02/2017 16:00	WG995122
1,2-Dibromoethane	U		0.000355	0.00103	1	07/02/2017 16:00	WG995122
Dibromomethane	U		0.000395	0.00103	1	07/02/2017 16:00	WG995122
1,2-Dichlorobenzene	U		0.000316	0.00103	1	07/02/2017 16:00	WG995122
1,3-Dichlorobenzene	U		0.000247	0.00103	1	07/02/2017 16:00	WG995122
1,4-Dichlorobenzene	U		0.000234	0.00103	1	07/02/2017 16:00	WG995122
Dichlorodifluoromethane	U	J4	0.000738	0.00517	1	07/02/2017 16:00	WG995122
1,1-Dichloroethane	U		0.000206	0.00103	1	07/02/2017 16:00	WG995122
1,2-Dichloroethane	U		0.000274	0.00103	1	07/02/2017 16:00	WG995122
1,1-Dichloroethene	U	J4	0.000314	0.00103	1	07/02/2017 16:00	WG995122
cis-1,2-Dichloroethene	U		0.000243	0.00103	1	07/02/2017 16:00	WG995122
trans-1,2-Dichloroethene	U		0.000273	0.00103	1	07/02/2017 16:00	WG995122
1,2-Dichloropropane	U		0.000370	0.00103	1	07/02/2017 16:00	WG995122
1,1-Dichloropropene	U		0.000328	0.00103	1	07/02/2017 16:00	WG995122
1,3-Dichloropropane	U		0.000214	0.00103	1	07/02/2017 16:00	WG995122
cis-1,3-Dichloropropene	U		0.000271	0.00103	1	07/02/2017 16:00	WG995122
trans-1,3-Dichloropropene	U		0.000276	0.00103	1	07/02/2017 16:00	WG995122
2,2-Dichloropropane	U		0.000289	0.00103	1	07/02/2017 16:00	WG995122
Di-isopropyl ether	U		0.000257	0.00103	1	07/02/2017 16:00	WG995122
Ethylbenzene	0.000354	J	0.000307	0.00103	1	07/02/2017 16:00	WG995122
Hexachloro-1,3-butadiene	U		0.000354	0.00103	1	07/02/2017 16:00	WG995122
Isopropylbenzene	U		0.000251	0.00103	1	07/02/2017 16:00	WG995122
p-Isopropyltoluene	U		0.000211	0.00103	1	07/02/2017 16:00	WG995122
2-Butanone (MEK)	U	J0	0.00484	0.0103	1	07/02/2017 16:00	WG995122
Methylene Chloride	U		0.00103	0.00517	1	07/02/2017 16:00	WG995122
4-Methyl-2-pentanone (MIBK)	U	J0	0.00195	0.0103	1	07/02/2017 16:00	WG995122
Methyl tert-butyl ether	U		0.000219	0.00103	1	07/02/2017 16:00	WG995122
Naphthalene	U		0.00103	0.00517	1	07/02/2017 16:00	WG995122
n-Propylbenzene	U		0.000213	0.00103	1	07/02/2017 16:00	WG995122
Styrene	U		0.000242	0.00103	1	07/02/2017 16:00	WG995122
1,1,1,2-Tetrachloroethane	U		0.000273	0.00103	1	07/02/2017 16:00	WG995122
1,1,2,2-Tetrachloroethane	U		0.000378	0.00103	1	07/02/2017 16:00	WG995122

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U	J4	0.000378	0.00103	1	07/02/2017 16:00	WG995122
Tetrachloroethene	U		0.000286	0.00103	1	07/02/2017 16:00	WG995122
Toluene	0.00591		0.000449	0.00517	1	07/02/2017 16:00	WG995122
1,2,3-Trichlorobenzene	0.000714	B J	0.000317	0.00103	1	07/02/2017 16:00	WG995122
1,2,4-Trichlorobenzene	U		0.000402	0.00103	1	07/02/2017 16:00	WG995122
1,1,1-Trichloroethane	U		0.000296	0.00103	1	07/02/2017 16:00	WG995122
1,1,2-Trichloroethane	U		0.000287	0.00103	1	07/02/2017 16:00	WG995122
Trichloroethene	0.000685	J	0.000289	0.00103	1	07/02/2017 16:00	WG995122
Trichlorofluoromethane	U	J4	0.000395	0.00517	1	07/02/2017 16:00	WG995122
1,2,3-Trichloropropane	U		0.000767	0.00259	1	07/02/2017 16:00	WG995122
1,2,4-Trimethylbenzene	0.00123		0.000218	0.00103	1	07/02/2017 16:00	WG995122
1,2,3-Trimethylbenzene	U		0.000297	0.00103	1	07/02/2017 16:00	WG995122
Vinyl chloride	U		0.000301	0.00103	1	07/02/2017 16:00	WG995122
1,3,5-Trimethylbenzene	0.000857	J	0.000275	0.00103	1	07/02/2017 16:00	WG995122
Xylenes, Total	0.00521		0.000722	0.00310	1	07/02/2017 16:00	WG995122
(S) Toluene-d8	*105*			*80.0-120*		*07/02/2017 16:00*	WG995122
(S) Dibromofluoromethane	*106*			*74.0-131*		*07/02/2017 16:00*	WG995122
(S) 4-Bromofluorobenzene	*100*			*64.0-132*		*07/02/2017 16:00*	WG995122

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	95.9		1	06/30/2017 17:42	WG994734

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U	J0	0.0104	0.0522	1	07/02/2017 16:17	WG995122
Acrylonitrile	U		0.00187	0.0104	1	07/02/2017 16:17	WG995122
Benzene	0.00181		0.000282	0.00104	1	07/02/2017 16:17	WG995122
Bromobenzene	U		0.000296	0.00104	1	07/02/2017 16:17	WG995122
Bromodichloromethane	U		0.000265	0.00104	1	07/02/2017 16:17	WG995122
Bromoform	U		0.000442	0.00104	1	07/02/2017 16:17	WG995122
Bromomethane	U		0.00140	0.00522	1	07/02/2017 16:17	WG995122
n-Butylbenzene	U		0.000269	0.00104	1	07/02/2017 16:17	WG995122
sec-Butylbenzene	U		0.000210	0.00104	1	07/02/2017 16:17	WG995122
tert-Butylbenzene	U		0.000215	0.00104	1	07/02/2017 16:17	WG995122
Carbon tetrachloride	U		0.000342	0.00104	1	07/02/2017 16:17	WG995122
Chlorobenzene	U		0.000221	0.00104	1	07/02/2017 16:17	WG995122
Chlorodibromomethane	U		0.000389	0.00104	1	07/02/2017 16:17	WG995122
Chloroethane	U		0.000987	0.00522	1	07/02/2017 16:17	WG995122
Chloroform	U		0.000239	0.00522	1	07/02/2017 16:17	WG995122
Chloromethane	U		0.000391	0.00261	1	07/02/2017 16:17	WG995122
2-Chlorotoluene	U		0.000314	0.00104	1	07/02/2017 16:17	WG995122
4-Chlorotoluene	U		0.000250	0.00104	1	07/02/2017 16:17	WG995122
1,2-Dibromo-3-Chloropropane	U	J0	0.00110	0.00522	1	07/02/2017 16:17	WG995122
1,2-Dibromoethane	U		0.000358	0.00104	1	07/02/2017 16:17	WG995122
Dibromomethane	U		0.000398	0.00104	1	07/02/2017 16:17	WG995122
1,2-Dichlorobenzene	U		0.000318	0.00104	1	07/02/2017 16:17	WG995122
1,3-Dichlorobenzene	U		0.000249	0.00104	1	07/02/2017 16:17	WG995122
1,4-Dichlorobenzene	U		0.000236	0.00104	1	07/02/2017 16:17	WG995122
Dichlorodifluoromethane	U	J4	0.000744	0.00522	1	07/02/2017 16:17	WG995122
1,1-Dichloroethane	U		0.000208	0.00104	1	07/02/2017 16:17	WG995122
1,2-Dichloroethane	U		0.000276	0.00104	1	07/02/2017 16:17	WG995122
1,1-Dichloroethene	U	J4	0.000316	0.00104	1	07/02/2017 16:17	WG995122
cis-1,2-Dichloroethene	U		0.000245	0.00104	1	07/02/2017 16:17	WG995122
trans-1,2-Dichloroethene	U		0.000275	0.00104	1	07/02/2017 16:17	WG995122
1,2-Dichloropropane	U		0.000373	0.00104	1	07/02/2017 16:17	WG995122
1,1-Dichloropropene	U		0.000331	0.00104	1	07/02/2017 16:17	WG995122
1,3-Dichloropropane	U		0.000216	0.00104	1	07/02/2017 16:17	WG995122
cis-1,3-Dichloropropene	U		0.000273	0.00104	1	07/02/2017 16:17	WG995122
trans-1,3-Dichloropropene	U		0.000279	0.00104	1	07/02/2017 16:17	WG995122
2,2-Dichloropropane	U		0.000291	0.00104	1	07/02/2017 16:17	WG995122
Di-isopropyl ether	U		0.000259	0.00104	1	07/02/2017 16:17	WG995122
Ethylbenzene	U		0.000310	0.00104	1	07/02/2017 16:17	WG995122
Hexachloro-1,3-butadiene	U		0.000357	0.00104	1	07/02/2017 16:17	WG995122
Isopropylbenzene	U		0.000253	0.00104	1	07/02/2017 16:17	WG995122
p-Isopropyltoluene	U		0.000213	0.00104	1	07/02/2017 16:17	WG995122
2-Butanone (MEK)	U	J0	0.00488	0.0104	1	07/02/2017 16:17	WG995122
Methylene Chloride	U		0.00104	0.00522	1	07/02/2017 16:17	WG995122
4-Methyl-2-pentanone (MIBK)	U	J0	0.00196	0.0104	1	07/02/2017 16:17	WG995122
Methyl tert-butyl ether	U		0.000221	0.00104	1	07/02/2017 16:17	WG995122
Naphthalene	U		0.00104	0.00522	1	07/02/2017 16:17	WG995122
n-Propylbenzene	U		0.000215	0.00104	1	07/02/2017 16:17	WG995122
Styrene	U		0.000244	0.00104	1	07/02/2017 16:17	WG995122
1,1,1,2-Tetrachloroethane	U		0.000275	0.00104	1	07/02/2017 16:17	WG995122
1,1,2,2-Tetrachloroethane	U		0.000381	0.00104	1	07/02/2017 16:17	WG995122

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U	J4	0.000381	0.00104	1	07/02/2017 16:17	WG995122
Tetrachloroethene	U		0.000288	0.00104	1	07/02/2017 16:17	WG995122
Toluene	0.00387	J	0.000453	0.00522	1	07/02/2017 16:17	WG995122
1,2,3-Trichlorobenzene	U		0.000319	0.00104	1	07/02/2017 16:17	WG995122
1,2,4-Trichlorobenzene	U		0.000405	0.00104	1	07/02/2017 16:17	WG995122
1,1,1-Trichloroethane	U		0.000298	0.00104	1	07/02/2017 16:17	WG995122
1,1,2-Trichloroethane	U		0.000289	0.00104	1	07/02/2017 16:17	WG995122
Trichloroethene	U		0.000291	0.00104	1	07/02/2017 16:17	WG995122
Trichlorofluoromethane	U	J4	0.000398	0.00522	1	07/02/2017 16:17	WG995122
1,2,3-Trichloropropane	U		0.000773	0.00261	1	07/02/2017 16:17	WG995122
1,2,4-Trimethylbenzene	0.000833	J	0.000220	0.00104	1	07/02/2017 16:17	WG995122
1,2,3-Trimethylbenzene	U		0.000299	0.00104	1	07/02/2017 16:17	WG995122
Vinyl chloride	U		0.000304	0.00104	1	07/02/2017 16:17	WG995122
1,3,5-Trimethylbenzene	0.000540	J	0.000277	0.00104	1	07/02/2017 16:17	WG995122
Xylenes, Total	0.00301	J	0.000728	0.00313	1	07/02/2017 16:17	WG995122
(S) Toluene-d8	*104*			*80.0-120*		*07/02/2017 16:17*	WG995122
(S) Dibromofluoromethane	*101*			*74.0-131*		*07/02/2017 16:17*	WG995122
(S) 4-Bromofluorobenzene	*96.5*			*64.0-132*		*07/02/2017 16:17*	WG995122

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	97.7		1	06/30/2017 17:34	WG994736

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U	J0	0.0106	0.0532	1.04	07/02/2017 16:34	WG995122
Acrylonitrile	U		0.00190	0.0106	1.04	07/02/2017 16:34	WG995122
Benzene	0.00218		0.000288	0.00106	1.04	07/02/2017 16:34	WG995122
Bromobenzene	U		0.000302	0.00106	1.04	07/02/2017 16:34	WG995122
Bromodichloromethane	U		0.000270	0.00106	1.04	07/02/2017 16:34	WG995122
Bromoform	U		0.000451	0.00106	1.04	07/02/2017 16:34	WG995122
Bromomethane	U		0.00142	0.00532	1.04	07/02/2017 16:34	WG995122
n-Butylbenzene	U		0.000274	0.00106	1.04	07/02/2017 16:34	WG995122
sec-Butylbenzene	U		0.000214	0.00106	1.04	07/02/2017 16:34	WG995122
tert-Butylbenzene	U		0.000219	0.00106	1.04	07/02/2017 16:34	WG995122
Carbon tetrachloride	U		0.000349	0.00106	1.04	07/02/2017 16:34	WG995122
Chlorobenzene	U		0.000225	0.00106	1.04	07/02/2017 16:34	WG995122
Chlorodibromomethane	U		0.000397	0.00106	1.04	07/02/2017 16:34	WG995122
Chloroethane	U		0.00101	0.00532	1.04	07/02/2017 16:34	WG995122
Chloroform	U		0.000244	0.00532	1.04	07/02/2017 16:34	WG995122
Chloromethane	U		0.000399	0.00266	1.04	07/02/2017 16:34	WG995122
2-Chlorotoluene	U		0.000320	0.00106	1.04	07/02/2017 16:34	WG995122
4-Chlorotoluene	U		0.000256	0.00106	1.04	07/02/2017 16:34	WG995122
1,2-Dibromo-3-Chloropropane	U	J0	0.00112	0.00532	1.04	07/02/2017 16:34	WG995122
1,2-Dibromoethane	U		0.000365	0.00106	1.04	07/02/2017 16:34	WG995122
Dibromomethane	U		0.000406	0.00106	1.04	07/02/2017 16:34	WG995122
1,2-Dichlorobenzene	U		0.000325	0.00106	1.04	07/02/2017 16:34	WG995122
1,3-Dichlorobenzene	U		0.000254	0.00106	1.04	07/02/2017 16:34	WG995122
1,4-Dichlorobenzene	U		0.000241	0.00106	1.04	07/02/2017 16:34	WG995122
Dichlorodifluoromethane	U	J4	0.000760	0.00532	1.04	07/02/2017 16:34	WG995122
1,1-Dichloroethane	U		0.000212	0.00106	1.04	07/02/2017 16:34	WG995122
1,2-Dichloroethane	U		0.000283	0.00106	1.04	07/02/2017 16:34	WG995122
1,1-Dichloroethene	U	J4	0.000322	0.00106	1.04	07/02/2017 16:34	WG995122
cis-1,2-Dichloroethene	U		0.000250	0.00106	1.04	07/02/2017 16:34	WG995122
trans-1,2-Dichloroethene	U		0.000280	0.00106	1.04	07/02/2017 16:34	WG995122
1,2-Dichloropropane	U		0.000381	0.00106	1.04	07/02/2017 16:34	WG995122
1,1-Dichloropropene	U		0.000338	0.00106	1.04	07/02/2017 16:34	WG995122
1,3-Dichloropropane	U		0.000220	0.00106	1.04	07/02/2017 16:34	WG995122
cis-1,3-Dichloropropene	U		0.000278	0.00106	1.04	07/02/2017 16:34	WG995122
trans-1,3-Dichloropropene	U		0.000285	0.00106	1.04	07/02/2017 16:34	WG995122
2,2-Dichloropropane	U		0.000297	0.00106	1.04	07/02/2017 16:34	WG995122
Di-isopropyl ether	U		0.000264	0.00106	1.04	07/02/2017 16:34	WG995122
Ethylbenzene	U		0.000316	0.00106	1.04	07/02/2017 16:34	WG995122
Hexachloro-1,3-butadiene	U		0.000364	0.00106	1.04	07/02/2017 16:34	WG995122
Isopropylbenzene	U		0.000259	0.00106	1.04	07/02/2017 16:34	WG995122
p-Isopropyltoluene	U		0.000217	0.00106	1.04	07/02/2017 16:34	WG995122
2-Butanone (MEK)	U	J0	0.00499	0.0106	1.04	07/02/2017 16:34	WG995122
Methylene Chloride	U		0.00106	0.00532	1.04	07/02/2017 16:34	WG995122
4-Methyl-2-pentanone (MIBK)	U	J0	0.00201	0.0106	1.04	07/02/2017 16:34	WG995122
Methyl tert-butyl ether	U		0.000225	0.00106	1.04	07/02/2017 16:34	WG995122
Naphthalene	U		0.00106	0.00532	1.04	07/02/2017 16:34	WG995122
n-Propylbenzene	U		0.000219	0.00106	1.04	07/02/2017 16:34	WG995122
Styrene	U		0.000249	0.00106	1.04	07/02/2017 16:34	WG995122
1,1,1,2-Tetrachloroethane	U		0.000280	0.00106	1.04	07/02/2017 16:34	WG995122
1,1,2,2-Tetrachloroethane	U		0.000389	0.00106	1.04	07/02/2017 16:34	WG995122

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U	J4	0.000389	0.00106	1.04	07/02/2017 16:34	WG995122
Tetrachloroethene	U		0.000294	0.00106	1.04	07/02/2017 16:34	WG995122
Toluene	0.00420	J	0.000462	0.00532	1.04	07/02/2017 16:34	WG995122
1,2,3-Trichlorobenzene	U		0.000326	0.00106	1.04	07/02/2017 16:34	WG995122
1,2,4-Trichlorobenzene	U		0.000414	0.00106	1.04	07/02/2017 16:34	WG995122
1,1,1-Trichloroethane	U		0.000304	0.00106	1.04	07/02/2017 16:34	WG995122
1,1,2-Trichloroethane	U		0.000295	0.00106	1.04	07/02/2017 16:34	WG995122
Trichloroethene	0.000600	J	0.000297	0.00106	1.04	07/02/2017 16:34	WG995122
Trichlorofluoromethane	U	J4	0.000406	0.00532	1.04	07/02/2017 16:34	WG995122
1,2,3-Trichloropropane	U		0.000789	0.00266	1.04	07/02/2017 16:34	WG995122
1,2,4-Trimethylbenzene	0.000797	J	0.000224	0.00106	1.04	07/02/2017 16:34	WG995122
1,2,3-Trimethylbenzene	U		0.000305	0.00106	1.04	07/02/2017 16:34	WG995122
Vinyl chloride	U		0.000310	0.00106	1.04	07/02/2017 16:34	WG995122
1,3,5-Trimethylbenzene	0.000599	J	0.000284	0.00106	1.04	07/02/2017 16:34	WG995122
Xylenes, Total	0.00336		0.000743	0.00319	1.04	07/02/2017 16:34	WG995122
(S) Toluene-d8	*102*			*80.0-120*		*07/02/2017 16:34*	WG995122
(S) Dibromofluoromethane	*105*			*74.0-131*		*07/02/2017 16:34*	WG995122
(S) 4-Bromofluorobenzene	*100*			*64.0-132*		*07/02/2017 16:34*	WG995122

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	96.7		1	06/30/2017 17:34	WG994736

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U	J0	0.0103	0.0517	1	07/02/2017 16:52	WG995122
Acrylonitrile	U		0.00185	0.0103	1	07/02/2017 16:52	WG995122
Benzene	0.00181		0.000279	0.00103	1	07/02/2017 16:52	WG995122
Bromobenzene	U		0.000294	0.00103	1	07/02/2017 16:52	WG995122
Bromodichloromethane	U		0.000263	0.00103	1	07/02/2017 16:52	WG995122
Bromoform	U		0.000439	0.00103	1	07/02/2017 16:52	WG995122
Bromomethane	U		0.00139	0.00517	1	07/02/2017 16:52	WG995122
n-Butylbenzene	U		0.000267	0.00103	1	07/02/2017 16:52	WG995122
sec-Butylbenzene	U		0.000208	0.00103	1	07/02/2017 16:52	WG995122
tert-Butylbenzene	U		0.000213	0.00103	1	07/02/2017 16:52	WG995122
Carbon tetrachloride	U		0.000339	0.00103	1	07/02/2017 16:52	WG995122
Chlorobenzene	U		0.000219	0.00103	1	07/02/2017 16:52	WG995122
Chlorodibromomethane	U		0.000386	0.00103	1	07/02/2017 16:52	WG995122
Chloroethane	U		0.000979	0.00517	1	07/02/2017 16:52	WG995122
Chloroform	U		0.000237	0.00517	1	07/02/2017 16:52	WG995122
Chloromethane	U		0.000388	0.00259	1	07/02/2017 16:52	WG995122
2-Chlorotoluene	U		0.000311	0.00103	1	07/02/2017 16:52	WG995122
4-Chlorotoluene	U		0.000248	0.00103	1	07/02/2017 16:52	WG995122
1,2-Dibromo-3-Chloropropane	U	J0	0.00109	0.00517	1	07/02/2017 16:52	WG995122
1,2-Dibromoethane	U		0.000355	0.00103	1	07/02/2017 16:52	WG995122
Dibromomethane	U		0.000395	0.00103	1	07/02/2017 16:52	WG995122
1,2-Dichlorobenzene	U		0.000315	0.00103	1	07/02/2017 16:52	WG995122
1,3-Dichlorobenzene	U		0.000247	0.00103	1	07/02/2017 16:52	WG995122
1,4-Dichlorobenzene	U		0.000234	0.00103	1	07/02/2017 16:52	WG995122
Dichlorodifluoromethane	U	J4	0.000738	0.00517	1	07/02/2017 16:52	WG995122
1,1-Dichloroethane	U		0.000206	0.00103	1	07/02/2017 16:52	WG995122
1,2-Dichloroethane	U		0.000274	0.00103	1	07/02/2017 16:52	WG995122
1,1-Dichloroethene	U	J4	0.000313	0.00103	1	07/02/2017 16:52	WG995122
cis-1,2-Dichloroethene	U		0.000243	0.00103	1	07/02/2017 16:52	WG995122
trans-1,2-Dichloroethene	U		0.000273	0.00103	1	07/02/2017 16:52	WG995122
1,2-Dichloropropane	U		0.000370	0.00103	1	07/02/2017 16:52	WG995122
1,1-Dichloropropene	U		0.000328	0.00103	1	07/02/2017 16:52	WG995122
1,3-Dichloropropane	U		0.000214	0.00103	1	07/02/2017 16:52	WG995122
cis-1,3-Dichloropropene	U		0.000271	0.00103	1	07/02/2017 16:52	WG995122
trans-1,3-Dichloropropene	U		0.000276	0.00103	1	07/02/2017 16:52	WG995122
2,2-Dichloropropane	U		0.000289	0.00103	1	07/02/2017 16:52	WG995122
Di-isopropyl ether	U		0.000257	0.00103	1	07/02/2017 16:52	WG995122
Ethylbenzene	U		0.000307	0.00103	1	07/02/2017 16:52	WG995122
Hexachloro-1,3-butadiene	U		0.000354	0.00103	1	07/02/2017 16:52	WG995122
Isopropylbenzene	U		0.000251	0.00103	1	07/02/2017 16:52	WG995122
p-Isopropyltoluene	U		0.000211	0.00103	1	07/02/2017 16:52	WG995122
2-Butanone (MEK)	U	J0	0.00484	0.0103	1	07/02/2017 16:52	WG995122
Methylene Chloride	U		0.00103	0.00517	1	07/02/2017 16:52	WG995122
4-Methyl-2-pentanone (MIBK)	U	J0	0.00194	0.0103	1	07/02/2017 16:52	WG995122
Methyl tert-butyl ether	U		0.000219	0.00103	1	07/02/2017 16:52	WG995122
Naphthalene	U		0.00103	0.00517	1	07/02/2017 16:52	WG995122
n-Propylbenzene	U		0.000213	0.00103	1	07/02/2017 16:52	WG995122
Styrene	U		0.000242	0.00103	1	07/02/2017 16:52	WG995122
1,1,1,2-Tetrachloroethane	U		0.000273	0.00103	1	07/02/2017 16:52	WG995122
1,1,2,2-Tetrachloroethane	U		0.000378	0.00103	1	07/02/2017 16:52	WG995122

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U	J4	0.000378	0.00103	1	07/02/2017 16:52	WG995122
Tetrachloroethene	U		0.000285	0.00103	1	07/02/2017 16:52	WG995122
Toluene	0.00345	J	0.000449	0.00517	1	07/02/2017 16:52	WG995122
1,2,3-Trichlorobenzene	U		0.000317	0.00103	1	07/02/2017 16:52	WG995122
1,2,4-Trichlorobenzene	U		0.000401	0.00103	1	07/02/2017 16:52	WG995122
1,1,1-Trichloroethane	U		0.000296	0.00103	1	07/02/2017 16:52	WG995122
1,1,2-Trichloroethane	U		0.000287	0.00103	1	07/02/2017 16:52	WG995122
Trichloroethene	0.000704	J	0.000289	0.00103	1	07/02/2017 16:52	WG995122
Trichlorofluoromethane	U	J4	0.000395	0.00517	1	07/02/2017 16:52	WG995122
1,2,3-Trichloropropane	U		0.000766	0.00259	1	07/02/2017 16:52	WG995122
1,2,4-Trimethylbenzene	0.000535	J	0.000218	0.00103	1	07/02/2017 16:52	WG995122
1,2,3-Trimethylbenzene	U		0.000297	0.00103	1	07/02/2017 16:52	WG995122
Vinyl chloride	U		0.000301	0.00103	1	07/02/2017 16:52	WG995122
1,3,5-Trimethylbenzene	0.000334	J	0.000275	0.00103	1	07/02/2017 16:52	WG995122
Xylenes, Total	0.00248	J	0.000722	0.00310	1	07/02/2017 16:52	WG995122
(S) Toluene-d8	*103*			*80.0-120*		*07/02/2017 16:52*	WG995122
(S) Dibromofluoromethane	*98.8*			*74.0-131*		*07/02/2017 16:52*	WG995122
(S) 4-Bromofluorobenzene	*100*			*64.0-132*		*07/02/2017 16:52*	WG995122

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	97.2		1	06/30/2017 17:27	WG994738

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U	J0	0.0103	0.0515	1	07/02/2017 17:09	WG995122
Acrylonitrile	U		0.00184	0.0103	1	07/02/2017 17:09	WG995122
Benzene	0.00187		0.000278	0.00103	1	07/02/2017 17:09	WG995122
Bromobenzene	U		0.000292	0.00103	1	07/02/2017 17:09	WG995122
Bromodichloromethane	U		0.000261	0.00103	1	07/02/2017 17:09	WG995122
Bromoform	U		0.000436	0.00103	1	07/02/2017 17:09	WG995122
Bromomethane	U		0.00138	0.00515	1	07/02/2017 17:09	WG995122
n-Butylbenzene	U		0.000266	0.00103	1	07/02/2017 17:09	WG995122
sec-Butylbenzene	U		0.000207	0.00103	1	07/02/2017 17:09	WG995122
tert-Butylbenzene	U		0.000212	0.00103	1	07/02/2017 17:09	WG995122
Carbon tetrachloride	U		0.000338	0.00103	1	07/02/2017 17:09	WG995122
Chlorobenzene	U		0.000218	0.00103	1	07/02/2017 17:09	WG995122
Chlorodibromomethane	U		0.000384	0.00103	1	07/02/2017 17:09	WG995122
Chloroethane	U		0.000974	0.00515	1	07/02/2017 17:09	WG995122
Chloroform	U		0.000236	0.00515	1	07/02/2017 17:09	WG995122
Chloromethane	U		0.000386	0.00257	1	07/02/2017 17:09	WG995122
2-Chlorotoluene	U		0.000310	0.00103	1	07/02/2017 17:09	WG995122
4-Chlorotoluene	U		0.000247	0.00103	1	07/02/2017 17:09	WG995122
1,2-Dibromo-3-Chloropropane	U	J0	0.00108	0.00515	1	07/02/2017 17:09	WG995122
1,2-Dibromoethane	U		0.000353	0.00103	1	07/02/2017 17:09	WG995122
Dibromomethane	U		0.000393	0.00103	1	07/02/2017 17:09	WG995122
1,2-Dichlorobenzene	U		0.000314	0.00103	1	07/02/2017 17:09	WG995122
1,3-Dichlorobenzene	U		0.000246	0.00103	1	07/02/2017 17:09	WG995122
1,4-Dichlorobenzene	U		0.000233	0.00103	1	07/02/2017 17:09	WG995122
Dichlorodifluoromethane	U	J4	0.000734	0.00515	1	07/02/2017 17:09	WG995122
1,1-Dichloroethane	U		0.000205	0.00103	1	07/02/2017 17:09	WG995122
1,2-Dichloroethane	U		0.000273	0.00103	1	07/02/2017 17:09	WG995122
1,1-Dichloroethene	U	J4	0.000312	0.00103	1	07/02/2017 17:09	WG995122
cis-1,2-Dichloroethene	U		0.000242	0.00103	1	07/02/2017 17:09	WG995122
trans-1,2-Dichloroethene	U		0.000272	0.00103	1	07/02/2017 17:09	WG995122
1,2-Dichloropropane	U		0.000368	0.00103	1	07/02/2017 17:09	WG995122
1,1-Dichloropropene	U		0.000326	0.00103	1	07/02/2017 17:09	WG995122
1,3-Dichloropropane	U		0.000213	0.00103	1	07/02/2017 17:09	WG995122
cis-1,3-Dichloropropene	U		0.000270	0.00103	1	07/02/2017 17:09	WG995122
trans-1,3-Dichloropropene	U		0.000275	0.00103	1	07/02/2017 17:09	WG995122
2,2-Dichloropropane	U		0.000287	0.00103	1	07/02/2017 17:09	WG995122
Di-isopropyl ether	U		0.000255	0.00103	1	07/02/2017 17:09	WG995122
Ethylbenzene	U		0.000306	0.00103	1	07/02/2017 17:09	WG995122
Hexachloro-1,3-butadiene	U		0.000352	0.00103	1	07/02/2017 17:09	WG995122
Isopropylbenzene	U		0.000250	0.00103	1	07/02/2017 17:09	WG995122
p-Isopropyltoluene	U		0.000210	0.00103	1	07/02/2017 17:09	WG995122
2-Butanone (MEK)	U	J0	0.00482	0.0103	1	07/02/2017 17:09	WG995122
Methylene Chloride	U		0.00103	0.00515	1	07/02/2017 17:09	WG995122
4-Methyl-2-pentanone (MIBK)	U	J0	0.00193	0.0103	1	07/02/2017 17:09	WG995122
Methyl tert-butyl ether	U		0.000218	0.00103	1	07/02/2017 17:09	WG995122
Naphthalene	U		0.00103	0.00515	1	07/02/2017 17:09	WG995122
n-Propylbenzene	U		0.000212	0.00103	1	07/02/2017 17:09	WG995122
Styrene	U		0.000241	0.00103	1	07/02/2017 17:09	WG995122
1,1,1,2-Tetrachloroethane	U		0.000272	0.00103	1	07/02/2017 17:09	WG995122
1,1,2,2-Tetrachloroethane	U		0.000376	0.00103	1	07/02/2017 17:09	WG995122

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U	J4	0.000376	0.00103	1	07/02/2017 17:09	WG995122
Tetrachloroethene	U		0.000284	0.00103	1	07/02/2017 17:09	WG995122
Toluene	0.00410	J	0.000447	0.00515	1	07/02/2017 17:09	WG995122
1,2,3-Trichlorobenzene	U		0.000315	0.00103	1	07/02/2017 17:09	WG995122
1,2,4-Trichlorobenzene	U		0.000399	0.00103	1	07/02/2017 17:09	WG995122
1,1,1-Trichloroethane	U		0.000294	0.00103	1	07/02/2017 17:09	WG995122
1,1,2-Trichloroethane	U		0.000285	0.00103	1	07/02/2017 17:09	WG995122
Trichloroethene	U		0.000287	0.00103	1	07/02/2017 17:09	WG995122
Trichlorofluoromethane	U	J4	0.000393	0.00515	1	07/02/2017 17:09	WG995122
1,2,3-Trichloropropane	U		0.000763	0.00257	1	07/02/2017 17:09	WG995122
1,2,4-Trimethylbenzene	0.000834	J	0.000217	0.00103	1	07/02/2017 17:09	WG995122
1,2,3-Trimethylbenzene	U		0.000295	0.00103	1	07/02/2017 17:09	WG995122
Vinyl chloride	U		0.000299	0.00103	1	07/02/2017 17:09	WG995122
1,3,5-Trimethylbenzene	0.000566	J	0.000274	0.00103	1	07/02/2017 17:09	WG995122
Xylenes, Total	0.00371		0.000718	0.00309	1	07/02/2017 17:09	WG995122
(S) Toluene-d8	*102*			*80.0-120*		*07/02/2017 17:09*	WG995122
(S) Dibromofluoromethane	*101*			*74.0-131*		*07/02/2017 17:09*	WG995122
(S) 4-Bromofluorobenzene	*105*			*64.0-132*		*07/02/2017 17:09*	WG995122

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	95.7		1	06/30/2017 17:07	WG994743

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U	J0	0.0105	0.0527	1.01	07/02/2017 17:27	WG995122
Acrylonitrile	U		0.00189	0.0105	1.01	07/02/2017 17:27	WG995122
Benzene	0.00162		0.000285	0.00105	1.01	07/02/2017 17:27	WG995122
Bromobenzene	U		0.000300	0.00105	1.01	07/02/2017 17:27	WG995122
Bromodichloromethane	U		0.000267	0.00105	1.01	07/02/2017 17:27	WG995122
Bromoform	U		0.000447	0.00105	1.01	07/02/2017 17:27	WG995122
Bromomethane	U		0.00141	0.00527	1.01	07/02/2017 17:27	WG995122
n-Butylbenzene	U		0.000272	0.00105	1.01	07/02/2017 17:27	WG995122
sec-Butylbenzene	U		0.000212	0.00105	1.01	07/02/2017 17:27	WG995122
tert-Butylbenzene	U		0.000217	0.00105	1.01	07/02/2017 17:27	WG995122
Carbon tetrachloride	U		0.000346	0.00105	1.01	07/02/2017 17:27	WG995122
Chlorobenzene	U		0.000224	0.00105	1.01	07/02/2017 17:27	WG995122
Chlorodibromomethane	U		0.000394	0.00105	1.01	07/02/2017 17:27	WG995122
Chloroethane	U		0.000997	0.00527	1.01	07/02/2017 17:27	WG995122
Chloroform	U		0.000241	0.00527	1.01	07/02/2017 17:27	WG995122
Chloromethane	U		0.000396	0.00264	1.01	07/02/2017 17:27	WG995122
2-Chlorotoluene	U		0.000318	0.00105	1.01	07/02/2017 17:27	WG995122
4-Chlorotoluene	U		0.000253	0.00105	1.01	07/02/2017 17:27	WG995122
1,2-Dibromo-3-Chloropropane	U	J0	0.00111	0.00527	1.01	07/02/2017 17:27	WG995122
1,2-Dibromoethane	U		0.000361	0.00105	1.01	07/02/2017 17:27	WG995122
Dibromomethane	U		0.000403	0.00105	1.01	07/02/2017 17:27	WG995122
1,2-Dichlorobenzene	U		0.000322	0.00105	1.01	07/02/2017 17:27	WG995122
1,3-Dichlorobenzene	U		0.000252	0.00105	1.01	07/02/2017 17:27	WG995122
1,4-Dichlorobenzene	U		0.000238	0.00105	1.01	07/02/2017 17:27	WG995122
Dichlorodifluoromethane	U	J4	0.000752	0.00527	1.01	07/02/2017 17:27	WG995122
1,1-Dichloroethane	U		0.000210	0.00105	1.01	07/02/2017 17:27	WG995122
1,2-Dichloroethane	U		0.000280	0.00105	1.01	07/02/2017 17:27	WG995122
1,1-Dichloroethene	U	J4	0.000320	0.00105	1.01	07/02/2017 17:27	WG995122
cis-1,2-Dichloroethene	U		0.000248	0.00105	1.01	07/02/2017 17:27	WG995122
trans-1,2-Dichloroethene	U		0.000279	0.00105	1.01	07/02/2017 17:27	WG995122
1,2-Dichloropropane	U		0.000378	0.00105	1.01	07/02/2017 17:27	WG995122
1,1-Dichloropropene	U		0.000334	0.00105	1.01	07/02/2017 17:27	WG995122
1,3-Dichloropropane	U		0.000218	0.00105	1.01	07/02/2017 17:27	WG995122
cis-1,3-Dichloropropene	U		0.000277	0.00105	1.01	07/02/2017 17:27	WG995122
trans-1,3-Dichloropropene	U		0.000282	0.00105	1.01	07/02/2017 17:27	WG995122
2,2-Dichloropropane	U		0.000295	0.00105	1.01	07/02/2017 17:27	WG995122
Di-isopropyl ether	U		0.000261	0.00105	1.01	07/02/2017 17:27	WG995122
Ethylbenzene	U		0.000313	0.00105	1.01	07/02/2017 17:27	WG995122
Hexachloro-1,3-butadiene	U		0.000360	0.00105	1.01	07/02/2017 17:27	WG995122
Isopropylbenzene	U		0.000256	0.00105	1.01	07/02/2017 17:27	WG995122
p-Isopropyltoluene	U		0.000215	0.00105	1.01	07/02/2017 17:27	WG995122
2-Butanone (MEK)	U	J0	0.00494	0.0105	1.01	07/02/2017 17:27	WG995122
Methylene Chloride	U		0.00105	0.00527	1.01	07/02/2017 17:27	WG995122
4-Methyl-2-pentanone (MIBK)	U	J0	0.00198	0.0105	1.01	07/02/2017 17:27	WG995122
Methyl tert-butyl ether	U		0.000224	0.00105	1.01	07/02/2017 17:27	WG995122
Naphthalene	U		0.00105	0.00527	1.01	07/02/2017 17:27	WG995122
n-Propylbenzene	U		0.000217	0.00105	1.01	07/02/2017 17:27	WG995122
Styrene	U		0.000246	0.00105	1.01	07/02/2017 17:27	WG995122
1,1,1,2-Tetrachloroethane	U		0.000279	0.00105	1.01	07/02/2017 17:27	WG995122
1,1,2,2-Tetrachloroethane	U		0.000385	0.00105	1.01	07/02/2017 17:27	WG995122

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U	J4	0.000385	0.00105	1.01	07/02/2017 17:27	WG995122
Tetrachloroethene	U		0.000291	0.00105	1.01	07/02/2017 17:27	WG995122
Toluene	0.00338	J	0.000457	0.00527	1.01	07/02/2017 17:27	WG995122
1,2,3-Trichlorobenzene	U		0.000323	0.00105	1.01	07/02/2017 17:27	WG995122
1,2,4-Trichlorobenzene	U		0.000409	0.00105	1.01	07/02/2017 17:27	WG995122
1,1,1-Trichloroethane	U		0.000302	0.00105	1.01	07/02/2017 17:27	WG995122
1,1,2-Trichloroethane	U		0.000292	0.00105	1.01	07/02/2017 17:27	WG995122
Trichloroethene	U		0.000295	0.00105	1.01	07/02/2017 17:27	WG995122
Trichlorofluoromethane	U	J4	0.000403	0.00527	1.01	07/02/2017 17:27	WG995122
1,2,3-Trichloropropane	U		0.000781	0.00264	1.01	07/02/2017 17:27	WG995122
1,2,4-Trimethylbenzene	0.000596	J	0.000222	0.00105	1.01	07/02/2017 17:27	WG995122
1,2,3-Trimethylbenzene	U		0.000303	0.00105	1.01	07/02/2017 17:27	WG995122
Vinyl chloride	U		0.000307	0.00105	1.01	07/02/2017 17:27	WG995122
1,3,5-Trimethylbenzene	0.000422	J	0.000281	0.00105	1.01	07/02/2017 17:27	WG995122
Xylenes, Total	0.00256	J	0.000736	0.00316	1.01	07/02/2017 17:27	WG995122
(S) Toluene-d8	*104*			*80.0-120*		*07/02/2017 17:27*	WG995122
(S) Dibromofluoromethane	*106*			*74.0-131*		*07/02/2017 17:27*	WG995122
(S) 4-Bromofluorobenzene	*99.7*			*64.0-132*		*07/02/2017 17:27*	WG995122

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	96.4		1	06/30/2017 16:48	WG994750

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U	J0	0.0136	0.0679	1.31	07/02/2017 17:44	WG995122
Acrylonitrile	U		0.00243	0.0136	1.31	07/02/2017 17:44	WG995122
Benzene	0.00209		0.000367	0.00136	1.31	07/02/2017 17:44	WG995122
Bromobenzene	U		0.000386	0.00136	1.31	07/02/2017 17:44	WG995122
Bromodichloromethane	U		0.000345	0.00136	1.31	07/02/2017 17:44	WG995122
Bromoform	U		0.000576	0.00136	1.31	07/02/2017 17:44	WG995122
Bromomethane	U		0.00183	0.00679	1.31	07/02/2017 17:44	WG995122
n-Butylbenzene	U		0.000351	0.00136	1.31	07/02/2017 17:44	WG995122
sec-Butylbenzene	U		0.000273	0.00136	1.31	07/02/2017 17:44	WG995122
tert-Butylbenzene	U		0.000280	0.00136	1.31	07/02/2017 17:44	WG995122
Carbon tetrachloride	U		0.000446	0.00136	1.31	07/02/2017 17:44	WG995122
Chlorobenzene	U		0.000288	0.00136	1.31	07/02/2017 17:44	WG995122
Chlorodibromomethane	U		0.000507	0.00136	1.31	07/02/2017 17:44	WG995122
Chloroethane	U		0.00129	0.00679	1.31	07/02/2017 17:44	WG995122
Chloroform	U		0.000311	0.00679	1.31	07/02/2017 17:44	WG995122
Chloromethane	U		0.000509	0.00340	1.31	07/02/2017 17:44	WG995122
2-Chlorotoluene	U		0.000409	0.00136	1.31	07/02/2017 17:44	WG995122
4-Chlorotoluene	U		0.000326	0.00136	1.31	07/02/2017 17:44	WG995122
1,2-Dibromo-3-Chloropropane	U	J0	0.00143	0.00679	1.31	07/02/2017 17:44	WG995122
1,2-Dibromoethane	U		0.000466	0.00136	1.31	07/02/2017 17:44	WG995122
Dibromomethane	U		0.000519	0.00136	1.31	07/02/2017 17:44	WG995122
1,2-Dichlorobenzene	U		0.000415	0.00136	1.31	07/02/2017 17:44	WG995122
1,3-Dichlorobenzene	U		0.000325	0.00136	1.31	07/02/2017 17:44	WG995122
1,4-Dichlorobenzene	U		0.000307	0.00136	1.31	07/02/2017 17:44	WG995122
Dichlorodifluoromethane	U	J4	0.000969	0.00679	1.31	07/02/2017 17:44	WG995122
1,1-Dichloroethane	U		0.000271	0.00136	1.31	07/02/2017 17:44	WG995122
1,2-Dichloroethane	U		0.000360	0.00136	1.31	07/02/2017 17:44	WG995122
1,1-Dichloroethene	U	J4	0.000412	0.00136	1.31	07/02/2017 17:44	WG995122
cis-1,2-Dichloroethene	U		0.000319	0.00136	1.31	07/02/2017 17:44	WG995122
trans-1,2-Dichloroethene	U		0.000359	0.00136	1.31	07/02/2017 17:44	WG995122
1,2-Dichloropropane	U		0.000486	0.00136	1.31	07/02/2017 17:44	WG995122
1,1-Dichloropropene	U		0.000430	0.00136	1.31	07/02/2017 17:44	WG995122
1,3-Dichloropropane	U		0.000281	0.00136	1.31	07/02/2017 17:44	WG995122
cis-1,3-Dichloropropene	U		0.000356	0.00136	1.31	07/02/2017 17:44	WG995122
trans-1,3-Dichloropropene	U		0.000363	0.00136	1.31	07/02/2017 17:44	WG995122
2,2-Dichloropropane	U		0.000379	0.00136	1.31	07/02/2017 17:44	WG995122
Di-isopropyl ether	U		0.000337	0.00136	1.31	07/02/2017 17:44	WG995122
Ethylbenzene	U		0.000403	0.00136	1.31	07/02/2017 17:44	WG995122
Hexachloro-1,3-butadiene	U		0.000465	0.00136	1.31	07/02/2017 17:44	WG995122
Isopropylbenzene	U		0.000330	0.00136	1.31	07/02/2017 17:44	WG995122
p-Isopropyltoluene	U		0.000277	0.00136	1.31	07/02/2017 17:44	WG995122
2-Butanone (MEK)	U	J0	0.00636	0.0136	1.31	07/02/2017 17:44	WG995122
Methylene Chloride	U		0.00136	0.00679	1.31	07/02/2017 17:44	WG995122
4-Methyl-2-pentanone (MIBK)	U	J0	0.00255	0.0136	1.31	07/02/2017 17:44	WG995122
Methyl tert-butyl ether	U		0.000288	0.00136	1.31	07/02/2017 17:44	WG995122
Naphthalene	U		0.00136	0.00679	1.31	07/02/2017 17:44	WG995122
n-Propylbenzene	U		0.000280	0.00136	1.31	07/02/2017 17:44	WG995122
Styrene	U		0.000317	0.00136	1.31	07/02/2017 17:44	WG995122
1,1,1,2-Tetrachloroethane	U		0.000359	0.00136	1.31	07/02/2017 17:44	WG995122
1,1,2,2-Tetrachloroethane	U		0.000496	0.00136	1.31	07/02/2017 17:44	WG995122

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U	J4	0.000496	0.00136	1.31	07/02/2017 17:44	WG995122
Tetrachloroethene	U		0.000375	0.00136	1.31	07/02/2017 17:44	WG995122
Toluene	0.00433	J	0.000589	0.00679	1.31	07/02/2017 17:44	WG995122
1,2,3-Trichlorobenzene	U		0.000416	0.00136	1.31	07/02/2017 17:44	WG995122
1,2,4-Trichlorobenzene	U		0.000527	0.00136	1.31	07/02/2017 17:44	WG995122
1,1,1-Trichloroethane	U		0.000389	0.00136	1.31	07/02/2017 17:44	WG995122
1,1,2-Trichloroethane	U		0.000376	0.00136	1.31	07/02/2017 17:44	WG995122
Trichloroethene	U		0.000379	0.00136	1.31	07/02/2017 17:44	WG995122
Trichlorofluoromethane	U	J4	0.000519	0.00679	1.31	07/02/2017 17:44	WG995122
1,2,3-Trichloropropane	U		0.00101	0.00340	1.31	07/02/2017 17:44	WG995122
1,2,4-Trimethylbenzene	0.000795	J	0.000286	0.00136	1.31	07/02/2017 17:44	WG995122
1,2,3-Trimethylbenzene	U		0.000390	0.00136	1.31	07/02/2017 17:44	WG995122
Vinyl chloride	U		0.000395	0.00136	1.31	07/02/2017 17:44	WG995122
1,3,5-Trimethylbenzene	0.000663	J	0.000361	0.00136	1.31	07/02/2017 17:44	WG995122
Xylenes, Total	0.00342	J	0.000948	0.00408	1.31	07/02/2017 17:44	WG995122
(S) Toluene-d8	*108*			*80.0-120*		*07/02/2017 17:44*	WG995122
(S) Dibromofluoromethane	*105*			*74.0-131*		*07/02/2017 17:44*	WG995122
(S) 4-Bromofluorobenzene	*98.5*			*64.0-132*		*07/02/2017 17:44*	WG995122

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	97.0		1	06/30/2017 16:48	WG994750

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U	J0	0.0103	0.0516	1	07/02/2017 18:01	WG995122
Acrylonitrile	U		0.00185	0.0103	1	07/02/2017 18:01	WG995122
Benzene	0.00170		0.000278	0.00103	1	07/02/2017 18:01	WG995122
Bromobenzene	U		0.000293	0.00103	1	07/02/2017 18:01	WG995122
Bromodichloromethane	U		0.000262	0.00103	1	07/02/2017 18:01	WG995122
Bromoform	U		0.000437	0.00103	1	07/02/2017 18:01	WG995122
Bromomethane	U		0.00138	0.00516	1	07/02/2017 18:01	WG995122
n-Butylbenzene	U		0.000266	0.00103	1	07/02/2017 18:01	WG995122
sec-Butylbenzene	U		0.000207	0.00103	1	07/02/2017 18:01	WG995122
tert-Butylbenzene	U		0.000212	0.00103	1	07/02/2017 18:01	WG995122
Carbon tetrachloride	U		0.000338	0.00103	1	07/02/2017 18:01	WG995122
Chlorobenzene	U		0.000219	0.00103	1	07/02/2017 18:01	WG995122
Chlorodibromomethane	U		0.000385	0.00103	1	07/02/2017 18:01	WG995122
Chloroethane	U		0.000976	0.00516	1	07/02/2017 18:01	WG995122
Chloroform	U		0.000236	0.00516	1	07/02/2017 18:01	WG995122
Chloromethane	U		0.000387	0.00258	1	07/02/2017 18:01	WG995122
2-Chlorotoluene	U		0.000310	0.00103	1	07/02/2017 18:01	WG995122
4-Chlorotoluene	U		0.000248	0.00103	1	07/02/2017 18:01	WG995122
1,2-Dibromo-3-Chloropropane	U	J0	0.00108	0.00516	1	07/02/2017 18:01	WG995122
1,2-Dibromoethane	U		0.000354	0.00103	1	07/02/2017 18:01	WG995122
Dibromomethane	U		0.000394	0.00103	1	07/02/2017 18:01	WG995122
1,2-Dichlorobenzene	U		0.000315	0.00103	1	07/02/2017 18:01	WG995122
1,3-Dichlorobenzene	U		0.000247	0.00103	1	07/02/2017 18:01	WG995122
1,4-Dichlorobenzene	U		0.000233	0.00103	1	07/02/2017 18:01	WG995122
Dichlorodifluoromethane	U	J4	0.000735	0.00516	1	07/02/2017 18:01	WG995122
1,1-Dichloroethane	U		0.000205	0.00103	1	07/02/2017 18:01	WG995122
1,2-Dichloroethane	U		0.000273	0.00103	1	07/02/2017 18:01	WG995122
1,1-Dichloroethene	U	J4	0.000313	0.00103	1	07/02/2017 18:01	WG995122
cis-1,2-Dichloroethene	U		0.000242	0.00103	1	07/02/2017 18:01	WG995122
trans-1,2-Dichloroethene	U		0.000272	0.00103	1	07/02/2017 18:01	WG995122
1,2-Dichloropropane	U		0.000369	0.00103	1	07/02/2017 18:01	WG995122
1,1-Dichloropropene	U		0.000327	0.00103	1	07/02/2017 18:01	WG995122
1,3-Dichloropropane	U		0.000214	0.00103	1	07/02/2017 18:01	WG995122
cis-1,3-Dichloropropene	U		0.000270	0.00103	1	07/02/2017 18:01	WG995122
trans-1,3-Dichloropropene	U		0.000275	0.00103	1	07/02/2017 18:01	WG995122
2,2-Dichloropropane	U		0.000288	0.00103	1	07/02/2017 18:01	WG995122
Di-isopropyl ether	U		0.000256	0.00103	1	07/02/2017 18:01	WG995122
Ethylbenzene	U		0.000306	0.00103	1	07/02/2017 18:01	WG995122
Hexachloro-1,3-butadiene	U		0.000353	0.00103	1	07/02/2017 18:01	WG995122
Isopropylbenzene	U		0.000251	0.00103	1	07/02/2017 18:01	WG995122
p-Isopropyltoluene	U		0.000210	0.00103	1	07/02/2017 18:01	WG995122
2-Butanone (MEK)	U	J0	0.00483	0.0103	1	07/02/2017 18:01	WG995122
Methylene Chloride	U		0.00103	0.00516	1	07/02/2017 18:01	WG995122
4-Methyl-2-pentanone (MIBK)	U	J0	0.00194	0.0103	1	07/02/2017 18:01	WG995122
Methyl tert-butyl ether	U		0.000219	0.00103	1	07/02/2017 18:01	WG995122
Naphthalene	U		0.00103	0.00516	1	07/02/2017 18:01	WG995122
n-Propylbenzene	U		0.000212	0.00103	1	07/02/2017 18:01	WG995122
Styrene	U		0.000241	0.00103	1	07/02/2017 18:01	WG995122
1,1,1,2-Tetrachloroethane	U		0.000272	0.00103	1	07/02/2017 18:01	WG995122
1,1,2,2-Tetrachloroethane	U		0.000376	0.00103	1	07/02/2017 18:01	WG995122

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U	J4	0.000376	0.00103	1	07/02/2017 18:01	WG995122
Tetrachloroethene	U		0.000285	0.00103	1	07/02/2017 18:01	WG995122
Toluene	0.00356	J	0.000448	0.00516	1	07/02/2017 18:01	WG995122
1,2,3-Trichlorobenzene	U		0.000316	0.00103	1	07/02/2017 18:01	WG995122
1,2,4-Trichlorobenzene	U		0.000400	0.00103	1	07/02/2017 18:01	WG995122
1,1,1-Trichloroethane	U		0.000295	0.00103	1	07/02/2017 18:01	WG995122
1,1,2-Trichloroethane	U		0.000286	0.00103	1	07/02/2017 18:01	WG995122
Trichloroethene	0.000723	J	0.000288	0.00103	1	07/02/2017 18:01	WG995122
Trichlorofluoromethane	U	J4	0.000394	0.00516	1	07/02/2017 18:01	WG995122
1,2,3-Trichloropropane	U		0.000764	0.00258	1	07/02/2017 18:01	WG995122
1,2,4-Trimethylbenzene	0.000560	J	0.000218	0.00103	1	07/02/2017 18:01	WG995122
1,2,3-Trimethylbenzene	U		0.000296	0.00103	1	07/02/2017 18:01	WG995122
Vinyl chloride	U		0.000300	0.00103	1	07/02/2017 18:01	WG995122
1,3,5-Trimethylbenzene	0.000414	J	0.000274	0.00103	1	07/02/2017 18:01	WG995122
Xylenes, Total	0.00276	J	0.000720	0.00309	1	07/02/2017 18:01	WG995122
(S) Toluene-d8	*104*			*80.0-120*		*07/02/2017 18:01*	WG995122
(S) Dibromofluoromethane	*100*			*74.0-131*		*07/02/2017 18:01*	WG995122
(S) 4-Bromofluorobenzene	*99.6*			*64.0-132*		*07/02/2017 18:01*	WG995122

Method Blank (MB)

(MB) R3230465-1 06/30/17 17:42

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.000100			

L919200-02 Original Sample (OS) • Duplicate (DUP)

(OS) L919200-02 06/30/17 17:42 • (DUP) R3230465-3 06/30/17 17:42

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	83.4	82.9	1	0.555		5

Laboratory Control Sample (LCS)

(LCS) R3230465-2 06/30/17 17:42

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	49.9	99.9	85.0-115	

Method Blank (MB)

(MB) R3230463-1 06/30/17 17:34

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.000400			

L919043-06 Original Sample (OS) • Duplicate (DUP)

(OS) L919043-06 06/30/17 17:34 • (DUP) R3230463-3 06/30/17 17:34

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	84.4	83.8	1	0.743		5

Laboratory Control Sample (LCS)

(LCS) R3230463-2 06/30/17 17:34

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3230462-1 06/30/17 17:27

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.00100			

L919054-09 Original Sample (OS) • Duplicate (DUP)

(OS) L919054-09 06/30/17 17:27 • (DUP) R3230462-3 06/30/17 17:27

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	97.2	96.9	1	0.254		5

Laboratory Control Sample (LCS)

(LCS) R3230462-2 06/30/17 17:27

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3230460-1 06/30/17 17:17

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.00110			

L919054-04 Original Sample (OS) • Duplicate (DUP)

(OS) L919054-04 06/30/17 17:17 • (DUP) R3230460-3 06/30/17 17:17

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	96.1	95.9	1	0.262		5

Laboratory Control Sample (LCS)

(LCS) R3230460-2 06/30/17 17:17

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3230459-1 06/30/17 17:07

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.000900			

L919206-01 Original Sample (OS) • Duplicate (DUP)

(OS) L919206-01 06/30/17 17:07 • (DUP) R3230459-3 06/30/17 17:07

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	86.2	84.3	1	2.21		5

Laboratory Control Sample (LCS)

(LCS) R3230459-2 06/30/17 17:07

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3230457-1 06/30/17 16:48

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.000700			

L918965-05 Original Sample (OS) • Duplicate (DUP)

(OS) L918965-05 06/30/17 16:48 • (DUP) R3230457-3 06/30/17 16:48

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	86.1	86.6	1	0.471		5

Laboratory Control Sample (LCS)

(LCS) R3230457-2 06/30/17 16:48

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3231106-1 07/05/17 15:45

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Chromium,Hexavalent	U		0.64	2.00

L919054-01 Original Sample (OS) • Duplicate (DUP)

(OS) L919054-01 07/05/17 15:49 • (DUP) R3231106-4 07/05/17 15:49

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chromium,Hexavalent	U	0	1	0		20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3231106-2 07/05/17 15:46 • (LCSD) R3231106-3 07/05/17 15:46

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Chromium,Hexavalent	56.9	63.2	63.2	111	111	80-120			0	20

L919054-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L919054-01 07/05/17 15:49 • (MS) R3231106-5 07/05/17 15:50 • (MSD) R3231106-6 07/05/17 15:50

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chromium,Hexavalent	20.7	U	21.6	21.6	105	104	1	75-125			0	20

Method Blank (MB)

(MB) R3230775-1 07/03/17 20:11

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Cyanide	U		0.039	0.250

L919005-01 Original Sample (OS) • Duplicate (DUP)

(OS) L919005-01 07/03/17 20:17 • (DUP) R3230775-4 07/03/17 20:18

Analyte	Original Result mg/kg	DUP Result mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Cyanide	ND	0.168	1	0		20

L919371-01 Original Sample (OS) • Duplicate (DUP)

(OS) L919371-01 07/03/17 20:37 • (DUP) R3230775-7 07/03/17 20:38

Analyte	Original Result mg/kg	DUP Result mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Cyanide	ND	0.000	1	0		20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3230775-2 07/03/17 20:12 • (LCSD) R3230775-3 07/03/17 20:13

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Cyanide	2.50	2.43	2.37	97	95	50-150			3	20

L919043-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L919043-01 07/03/17 20:19 • (MS) R3230775-5 07/03/17 20:20 • (MSD) R3230775-6 07/03/17 20:23

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Cyanide	3.33	U	3.08	ND	93	0	1	75-125		J3 J6	200	20

Method Blank (MB)

(MB) R3230650-1 07/03/17 11:25

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Mercury	U		0.0028	0.0200

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3230650-2 07/03/17 11:27 • (LCSD) R3230650-3 07/03/17 11:30

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Mercury	0.300	0.252	0.284	84	95	80-120			12	20

L919043-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L919043-01 07/03/17 11:32 • (MS) R3230650-4 07/03/17 11:34 • (MSD) R3230650-5 07/03/17 11:37

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Mercury	0.300	0.0278	0.260	0.290	77	88	1	75-125			11	20

Method Blank (MB)

(MB) R3230566-1 07/03/17 01:10

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Arsenic	U		0.65	2.00
Barium	U		0.17	0.500
Beryllium	U		0.07	0.200
Cadmium	U		0.07	0.500
Chromium	U		0.14	1.00
Copper	U		0.53	2.00
Lead	U		0.19	0.500
Manganese	U		0.12	1.00
Nickel	U		0.49	2.00
Silver	U		0.28	1.00
Zinc	1.24	J	0.59	5.00

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3230566-2 07/03/17 01:12 • (LCSD) R3230566-3 07/03/17 01:15

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Arsenic	100	97.9	93.7	98	94	80-120			4	20
Barium	100	103	97.6	103	98	80-120			5	20
Beryllium	100	104	98.7	104	99	80-120			5	20
Cadmium	100	98.5	93.6	99	94	80-120			5	20
Chromium	100	100	94.8	100	95	80-120			5	20
Copper	100	101	95.7	101	96	80-120			5	20
Lead	100	99.6	94.4	100	94	80-120			5	20
Manganese	100	99.7	94.9	100	95	80-120			5	20
Nickel	100	101	96.0	101	96	80-120			5	20
Silver	20.0	18.1	17.1	91	86	80-120			6	20
Zinc	100	101	95.8	101	96	80-120			6	20

L919054-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L919054-04 07/03/17 01:18 • (MS) R3230566-6 07/03/17 01:26 • (MSD) R3230566-7 07/03/17 01:28

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic	104	6.12	106	106	96	96	1	75-125			0	20
Barium	104	60.9	149	157	85	92	1	75-125			5	20
Beryllium	104	0.389	103	103	99	99	1	75-125			0	20
Cadmium	104	U	102	102	98	98	1	75-125			0	20

L919054-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L919054-04 07/03/17 01:18 • (MS) R3230566-6 07/03/17 01:26 • (MSD) R3230566-7 07/03/17 01:28

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chromium	104	12.0	106	108	90	92	1	75-125			2	20
Copper	104	26.6	126	134	96	103	1	75-125			6	20
Lead	104	12.1	113	113	97	97	1	75-125			0	20
Manganese	104	449	422	496	0	45	1	75-125	V	V	16	20
Nickel	104	22.8	124	127	98	100	1	75-125			2	20
Silver	20.8	U	18.9	19	91	91	1	75-125			0	20
Zinc	104	84.0	160	180	73	93	1	75-125	J6		12	20

Method Blank (MB)

(MB) R3230983-3 07/02/17 12:51

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acetone	U		0.0100	0.0500
Acrylonitrile	U		0.00179	0.0100
Benzene	U		0.000270	0.00100
Bromobenzene	U		0.000284	0.00100
Bromodichloromethane	U		0.000254	0.00100
Bromoform	U		0.000424	0.00100
Bromomethane	U		0.00134	0.00500
n-Butylbenzene	U		0.000258	0.00100
sec-Butylbenzene	U		0.000201	0.00100
tert-Butylbenzene	U		0.000206	0.00100
Carbon tetrachloride	U		0.000328	0.00100
Chlorobenzene	U		0.000212	0.00100
Chlorodibromomethane	U		0.000373	0.00100
Chloroethane	U		0.000946	0.00500
Chloroform	U		0.000229	0.00500
Chloromethane	U		0.000375	0.00250
2-Chlorotoluene	U		0.000301	0.00100
4-Chlorotoluene	U		0.000240	0.00100
1,2-Dibromo-3-Chloropropane	U		0.00105	0.00500
1,2-Dibromoethane	U		0.000343	0.00100
Dibromomethane	U		0.000382	0.00100
1,2-Dichlorobenzene	U		0.000305	0.00100
1,3-Dichlorobenzene	U		0.000239	0.00100
1,4-Dichlorobenzene	U		0.000226	0.00100
Dichlorodifluoromethane	U		0.000713	0.00500
1,1-Dichloroethane	U		0.000199	0.00100
1,2-Dichloroethane	U		0.000265	0.00100
1,1-Dichloroethene	U		0.000303	0.00100
cis-1,2-Dichloroethene	U		0.000235	0.00100
trans-1,2-Dichloroethene	U		0.000264	0.00100
1,2-Dichloropropane	U		0.000358	0.00100
1,1-Dichloropropene	U		0.000317	0.00100
1,3-Dichloropropane	U		0.000207	0.00100
cis-1,3-Dichloropropene	U		0.000262	0.00100
trans-1,3-Dichloropropene	U		0.000267	0.00100
2,2-Dichloropropane	U		0.000279	0.00100
Di-isopropyl ether	U		0.000248	0.00100
Ethylbenzene	U		0.000297	0.00100
Hexachloro-1,3-butadiene	U		0.000342	0.00100
Isopropylbenzene	U		0.000243	0.00100

Method Blank (MB)

(MB) R3230983-3 07/02/17 12:51

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
p-Isopropyltoluene	U		0.000204	0.00100
2-Butanone (MEK)	U		0.00468	0.0100
Methylene Chloride	U		0.00100	0.00500
4-Methyl-2-pentanone (MIBK)	U		0.00188	0.0100
Methyl tert-butyl ether	U		0.000212	0.00100
Naphthalene	U		0.00100	0.00500
n-Propylbenzene	U		0.000206	0.00100
Styrene	U		0.000234	0.00100
1,1,1,2-Tetrachloroethane	U		0.000264	0.00100
1,1,2,2-Tetrachloroethane	U		0.000365	0.00100
Tetrachloroethene	U		0.000276	0.00100
Toluene	U		0.000434	0.00500
1,1,2-Trichlorotrifluoroethane	U		0.000365	0.00100
1,2,3-Trichlorobenzene	0.000345	J	0.000306	0.00100
1,2,4-Trichlorobenzene	U		0.000388	0.00100
1,1,1-Trichloroethane	U		0.000286	0.00100
1,1,2-Trichloroethane	U		0.000277	0.00100
Trichloroethene	U		0.000279	0.00100
Trichlorofluoromethane	U		0.000382	0.00500
1,2,3-Trichloropropane	U		0.000741	0.00250
1,2,3-Trimethylbenzene	U		0.000287	0.00100
1,2,4-Trimethylbenzene	U		0.000211	0.00100
1,3,5-Trimethylbenzene	U		0.000266	0.00100
Vinyl chloride	U		0.000291	0.00100
Xylenes, Total	U		0.000698	0.00300
(S) Toluene-d8	*102*			*80.0-120*
(S) Dibromofluoromethane	*102*			*74.0-131*
(S) 4-Bromofluorobenzene	*101*			*64.0-132*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3230983-1 07/02/17 11:59 • (LCSD) R3230983-2 07/02/17 12:16

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	0.125	0.0608	0.0731	48.7	58.5	11.0-160			18.4	23
Acrylonitrile	0.125	0.105	0.101	84.2	80.5	61.0-143			4.54	20
Benzene	0.0250	0.0251	0.0257	100	103	71.0-124			2.34	20
Bromobenzene	0.0250	0.0272	0.0274	109	110	78.0-120			0.530	20
Bromodichloromethane	0.0250	0.0253	0.0248	101	99.3	75.0-120			1.72	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3230983-1 07/02/17 11:59 • (LCSD) R3230983-2 07/02/17 12:16

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Bromoform	0.0250	0.0236	0.0229	94.5	91.8	65.0-133			2.89	20
Bromomethane	0.0250	0.0323	0.0336	129	134	26.0-160			3.74	20
n-Butylbenzene	0.0250	0.0262	0.0256	105	102	73.0-126			2.56	20
sec-Butylbenzene	0.0250	0.0278	0.0277	111	111	75.0-121			0.320	20
tert-Butylbenzene	0.0250	0.0286	0.0282	114	113	74.0-122			1.43	20
Carbon tetrachloride	0.0250	0.0286	0.0294	114	118	66.0-123			3.00	20
Chlorobenzene	0.0250	0.0283	0.0284	113	114	79.0-121			0.240	20
Chlorodibromomethane	0.0250	0.0248	0.0256	99.3	102	74.0-128			3.16	20
Chloroethane	0.0250	0.0312	0.0320	125	128	51.0-147			2.66	20
Chloroform	0.0250	0.0267	0.0273	107	109	73.0-123			2.14	20
Chloromethane	0.0250	0.0258	0.0255	103	102	51.0-138			1.21	20
2-Chlorotoluene	0.0250	0.0284	0.0283	113	113	72.0-124			0.180	20
4-Chlorotoluene	0.0250	0.0277	0.0282	111	113	78.0-120			1.75	20
1,2-Dibromo-3-Chloropropane	0.0250	0.0192	0.0197	76.7	78.7	65.0-126			2.64	20
1,2-Dibromoethane	0.0250	0.0263	0.0267	105	107	78.0-122			1.75	20
Dibromomethane	0.0250	0.0261	0.0258	104	103	79.0-120			1.13	20
1,2-Dichlorobenzene	0.0250	0.0263	0.0265	105	106	80.0-120			0.820	20
1,3-Dichlorobenzene	0.0250	0.0290	0.0287	116	115	72.0-123			1.24	20
1,4-Dichlorobenzene	0.0250	0.0274	0.0275	110	110	77.0-120			0.210	20
Dichlorodifluoromethane	0.0250	0.0388	0.0391	155	156	49.0-155		J4	0.820	20
1,1-Dichloroethane	0.0250	0.0254	0.0252	102	101	70.0-128			0.690	20
1,2-Dichloroethane	0.0250	0.0293	0.0284	117	114	69.0-128			2.99	20
1,1-Dichloroethene	0.0250	0.0316	0.0330	126	132	63.0-131		J4	4.49	20
cis-1,2-Dichloroethene	0.0250	0.0256	0.0263	103	105	74.0-123			2.39	20
trans-1,2-Dichloroethene	0.0250	0.0264	0.0258	106	103	72.0-122			2.09	20
1,2-Dichloropropane	0.0250	0.0263	0.0253	105	101	75.0-126			3.76	20
1,1-Dichloropropene	0.0250	0.0271	0.0277	108	111	72.0-130			2.05	20
1,3-Dichloropropane	0.0250	0.0270	0.0271	108	108	80.0-121			0.500	20
cis-1,3-Dichloropropene	0.0250	0.0252	0.0248	101	99.1	80.0-125			1.58	20
trans-1,3-Dichloropropene	0.0250	0.0255	0.0258	102	103	75.0-129			1.18	20
2,2-Dichloropropane	0.0250	0.0275	0.0278	110	111	60.0-129			1.04	20
Di-isopropyl ether	0.0250	0.0228	0.0225	91.4	89.9	62.0-133			1.66	20
Ethylbenzene	0.0250	0.0278	0.0285	111	114	77.0-120			2.25	20
Hexachloro-1,3-butadiene	0.0250	0.0264	0.0266	105	106	68.0-128			0.820	20
Isopropylbenzene	0.0250	0.0281	0.0281	112	112	75.0-120			0.0800	20
p-Isopropyltoluene	0.0250	0.0281	0.0270	112	108	74.0-125			3.77	20
2-Butanone (MEK)	0.125	0.0819	0.0912	65.5	72.9	37.0-159			10.8	20
Methylene Chloride	0.0250	0.0243	0.0242	97.2	96.8	67.0-123			0.480	20
4-Methyl-2-pentanone (MIBK)	0.125	0.0982	0.0930	78.5	74.4	60.0-144			5.36	20
Methyl tert-butyl ether	0.0250	0.0258	0.0247	103	98.8	66.0-125			4.29	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3230983-1 07/02/17 11:59 • (LCSD) R3230983-2 07/02/17 12:16

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Naphthalene	0.0250	0.0244	0.0236	97.7	94.6	64.0-125			3.24	20
n-Propylbenzene	0.0250	0.0283	0.0281	113	112	78.0-120			0.620	20
Styrene	0.0250	0.0280	0.0276	112	110	78.0-124			1.31	20
1,1,1,2-Tetrachloroethane	0.0250	0.0264	0.0265	106	106	74.0-124			0.610	20
1,1,2,2-Tetrachloroethane	0.0250	0.0247	0.0239	98.9	95.7	73.0-120			3.35	20
Tetrachloroethene	0.0250	0.0300	0.0310	120	124	70.0-127			3.46	20
Toluene	0.0250	0.0266	0.0265	106	106	77.0-120			0.110	20
1,1,2-Trichlorotrifluoroethane	0.0250	0.0327	0.0352	131	141	64.0-135		J4	7.32	20
1,2,3-Trichlorobenzene	0.0250	0.0257	0.0249	103	99.7	68.0-126			3.16	20
1,2,4-Trichlorobenzene	0.0250	0.0276	0.0267	110	107	70.0-127			3.26	20
1,1,1-Trichloroethane	0.0250	0.0300	0.0294	120	118	69.0-125			1.85	20
1,1,2-Trichloroethane	0.0250	0.0271	0.0272	108	109	78.0-120			0.600	20
Trichloroethene	0.0250	0.0287	0.0300	115	120	79.0-120			4.27	20
Trichlorofluoromethane	0.0250	0.0346	0.0353	138	141	59.0-136	J4	J4	1.92	20
1,2,3-Trichloropropane	0.0250	0.0252	0.0254	101	102	73.0-124			0.800	20
1,2,3-Trimethylbenzene	0.0250	0.0258	0.0256	103	102	76.0-120			0.800	20
1,2,4-Trimethylbenzene	0.0250	0.0278	0.0270	111	108	75.0-120			3.11	20
1,3,5-Trimethylbenzene	0.0250	0.0283	0.0279	113	112	75.0-120			1.35	20
Vinyl chloride	0.0250	0.0317	0.0305	127	122	63.0-134			3.69	20
Xylenes, Total	0.0750	0.0824	0.0838	110	112	77.0-120			1.68	20
(S) Toluene-d8				*103*	*102*	*80.0-120*				
(S) Dibromofluoromethane				*98.2*	*98.0*	*74.0-131*				
(S) 4-Bromofluorobenzene				*95.3*	*96.4*	*64.0-132*				

L919413-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L919413-01 07/02/17 22:32 • (MS) R3230983-4 07/02/17 22:50 • (MSD) R3230983-5 07/02/17 23:07

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Acetone	0.125	ND	0.823	0.870	24.4	25.8	27	10.0-160			5.55	36
Acrylonitrile	0.125	ND	2.35	2.35	69.5	69.7	27	14.0-160			0.230	33
Benzene	0.0250	ND	0.583	0.590	86.4	87.4	27	13.0-146			1.19	27
Bromobenzene	0.0250	ND	0.647	0.629	95.8	93.2	27	10.0-149			2.74	33
Bromodichloromethane	0.0250	ND	0.566	0.550	83.8	81.5	27	15.0-142			2.88	28
Bromoform	0.0250	ND	0.495	0.475	73.4	70.4	27	10.0-147			4.10	31
Bromomethane	0.0250	ND	0.512	0.514	75.8	76.1	27	10.0-160			0.450	32
n-Butylbenzene	0.0250	ND	0.520	0.547	77.1	81.0	27	10.0-154			4.97	37
sec-Butylbenzene	0.0250	ND	0.613	0.612	90.8	90.6	27	10.0-151			0.200	36
tert-Butylbenzene	0.0250	ND	0.650	0.639	96.2	94.7	27	10.0-152			1.64	35

L919413-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L919413-01 07/02/17 22:32 • (MS) R3230983-4 07/02/17 22:50 • (MSD) R3230983-5 07/02/17 23:07

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Carbon tetrachloride	0.0250	ND	0.610	0.618	90.4	91.6	27	13.0-140			1.38	30
Chlorobenzene	0.0250	ND	0.688	0.667	102	98.8	27	10.0-149			3.13	31
Chlorodibromomethane	0.0250	ND	0.569	0.554	84.3	82.1	27	12.0-147			2.60	29
Chloroethane	0.0250	ND	0.330	0.341	49.0	50.5	27	10.0-159			3.10	33
Chloroform	0.0250	ND	0.635	0.644	94.0	95.4	27	18.0-148			1.47	28
Chloromethane	0.0250	ND	0.399	0.397	59.1	58.8	27	10.0-146			0.480	29
2-Chlorotoluene	0.0250	ND	0.668	0.656	98.9	97.2	27	10.0-151			1.73	35
4-Chlorotoluene	0.0250	ND	0.661	0.655	97.9	97.0	27	10.0-150			0.840	35
1,2-Dibromo-3-Chloropropane	0.0250	ND	0.461	0.451	68.3	66.8	27	10.0-149			2.20	34
1,2-Dibromoethane	0.0250	ND	0.644	0.628	95.4	93.0	27	14.0-145			2.56	28
Dibromomethane	0.0250	ND	0.596	0.609	88.4	90.2	27	18.0-144			2.01	27
1,2-Dichlorobenzene	0.0250	ND	0.610	0.614	90.4	90.9	27	10.0-153			0.520	34
1,3-Dichlorobenzene	0.0250	ND	0.628	0.644	93.1	95.4	27	10.0-150			2.46	35
1,4-Dichlorobenzene	0.0250	ND	0.615	0.634	91.2	94.0	27	10.0-148			3.04	34
Dichlorodifluoromethane	0.0250	ND	0.592	0.572	87.7	84.7	27	10.0-160			3.52	30
1,1-Dichloroethane	0.0250	ND	0.593	0.591	87.8	87.6	27	19.0-148			0.230	28
1,2-Dichloroethane	0.0250	ND	0.693	0.681	103	101	27	17.0-147			1.73	27
1,1-Dichloroethene	0.0250	ND	0.504	0.530	74.6	78.5	27	10.0-150			5.00	31
cis-1,2-Dichloroethene	0.0250	ND	0.609	0.611	90.3	90.5	27	16.0-145			0.240	28
trans-1,2-Dichloroethene	0.0250	ND	0.591	0.572	87.6	84.8	27	11.0-142			3.24	29
1,2-Dichloropropane	0.0250	ND	0.606	0.600	89.8	88.8	27	17.0-148			1.05	28
1,1-Dichloropropene	0.0250	ND	0.609	0.618	90.2	91.5	27	10.0-150			1.41	30
1,3-Dichloropropane	0.0250	ND	0.660	0.639	97.8	94.6	27	16.0-148			3.28	27
cis-1,3-Dichloropropene	0.0250	ND	0.617	0.609	91.4	90.3	27	13.0-150			1.25	28
trans-1,3-Dichloropropene	0.0250	ND	0.643	0.608	95.3	90.1	27	10.0-152			5.57	29
2,2-Dichloropropane	0.0250	ND	0.543	0.569	80.4	84.3	27	16.0-143			4.80	30
Di-isopropyl ether	0.0250	ND	0.529	0.526	78.4	78.0	27	16.0-149			0.520	28
Ethylbenzene	0.0250	ND	0.660	0.641	97.7	95.0	27	10.0-147			2.85	31
Hexachloro-1,3-butadiene	0.0250	ND	0.405	0.443	60.0	65.6	27	10.0-154			9.00	40
Isopropylbenzene	0.0250	ND	0.652	0.632	96.5	93.7	27	10.0-147			2.98	33
p-Isopropyltoluene	0.0250	ND	0.614	0.616	90.9	91.2	27	10.0-156			0.330	37
2-Butanone (MEK)	0.125	ND	1.83	1.76	54.1	52.0	27	10.0-160			3.84	33
Methylene Chloride	0.0250	ND	0.545	0.548	80.8	81.2	27	16.0-139			0.530	29
4-Methyl-2-pentanone (MIBK)	0.125	ND	2.89	2.65	85.5	78.5	27	12.0-160			8.60	32
Methyl tert-butyl ether	0.0250	ND	0.565	0.561	83.6	83.1	27	21.0-145			0.660	29
Naphthalene	0.0250	ND	0.528	0.543	78.2	80.4	27	10.0-153			2.84	36
n-Propylbenzene	0.0250	ND	0.649	0.635	96.2	94.1	27	10.0-151			2.20	34
Styrene	0.0250	ND	0.693	0.683	103	101	27	10.0-155			1.49	34
1,1,1,2-Tetrachloroethane	0.0250	ND	0.634	0.585	94.0	86.7	27	10.0-147			8.11	30
1,1,2,2-Tetrachloroethane	0.0250	ND	0.592	0.554	87.7	82.0	27	10.0-155			6.67	31

L919413-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L919413-01 07/02/17 22:32 • (MS) R3230983-4 07/02/17 22:50 • (MSD) R3230983-5 07/02/17 23:07

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Tetrachloroethene	0.0250	ND	0.688	0.675	102	100	27	10.0-144			1.82	32
Toluene	0.0250	ND	0.630	0.626	90.5	90.0	27	10.0-144			0.610	28
1,1,2-Trichlorotrifluoroethane	0.0250	ND	0.559	0.610	82.8	90.3	27	10.0-153			8.72	33
1,2,3-Trichlorobenzene	0.0250	ND	0.458	0.486	67.8	71.9	27	10.0-153			5.95	40
1,2,4-Trichlorobenzene	0.0250	ND	0.476	0.523	70.5	77.5	27	10.0-156			9.49	40
1,1,1-Trichloroethane	0.0250	ND	0.670	0.671	99.3	99.4	27	18.0-145			0.170	29
1,1,2-Trichloroethane	0.0250	ND	0.664	0.628	98.4	93.1	27	12.0-151			5.52	28
Trichloroethene	0.0250	ND	0.688	0.656	102	97.2	27	11.0-148			4.75	29
Trichlorofluoromethane	0.0250	ND	0.630	0.655	93.4	97.0	27	10.0-157			3.84	34
1,2,3-Trichloropropane	0.0250	ND	0.625	0.587	92.5	86.9	27	10.0-154			6.25	32
1,2,3-Trimethylbenzene	0.0250	ND	0.589	0.606	87.3	89.8	27	10.0-150			2.87	33
1,2,4-Trimethylbenzene	0.0250	ND	0.642	0.631	94.1	92.5	27	10.0-151			1.74	34
1,3,5-Trimethylbenzene	0.0250	ND	0.632	0.621	93.6	92.0	27	10.0-150			1.77	33
Vinyl chloride	0.0250	ND	0.518	0.509	76.7	75.4	27	10.0-150			1.71	29
Xylenes, Total	0.0750	ND	1.98	1.94	98.0	95.7	27	10.0-150			2.35	31
(S) Toluene-d8					*102*	*102*		*80.0-120*				
(S) Dibromofluoromethane					*94.4*	*97.4*		*74.0-131*				
(S) 4-Bromofluorobenzene					*96.1*	*91.7*		*64.0-132*				

Method Blank (MB)

(MB) R3231461-3 07/06/17 10:44

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Aldrin	U		0.00135	0.0200
Alpha BHC	U		0.00136	0.0200
Beta BHC	U		0.00160	0.0200
Delta BHC	U		0.00143	0.0200
Gamma BHC	U		0.00145	0.0200
4,4-DDD	U		0.00156	0.0200
4,4-DDE	U		0.00154	0.0200
4,4-DDT	U		0.00200	0.0200
Dieldrin	U		0.00152	0.0200
Endosulfan I	U		0.00149	0.0200
Endosulfan II	U		0.00160	0.0200
Endosulfan sulfate	U		0.00151	0.0200
Endrin	U		0.00157	0.0200
Endrin aldehyde	U		0.00129	0.0200
Endrin ketone	U		0.00165	0.0200
Heptachlor	U		0.00154	0.0200
Heptachlor epoxide	U		0.00161	0.0200
Hexachlorobenzene	U		0.00124	0.0200
Methoxychlor	U		0.00178	0.0200
Chlordane	U		0.0390	0.200
Toxaphene	U		0.0360	0.400
(S) Decachlorobiphenyl	*89.1*			*10.0-148*
(S) Tetrachloro-m-xylene	*92.2*			*21.0-146*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3231461-1 07/06/17 10:19 • (LCSD) R3231461-2 07/06/17 10:32

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Aldrin	0.0667	0.0721	0.0651	108	97.6	55.0-137			10.2	29
Alpha BHC	0.0667	0.0741	0.0670	111	100	55.0-136			9.98	28
Beta BHC	0.0667	0.0695	0.0630	104	94.5	53.0-133			9.81	28
Delta BHC	0.0667	0.0736	0.0667	110	100	53.0-139			9.74	29
Gamma BHC	0.0667	0.0741	0.0671	111	101	54.0-136			9.95	29
4,4-DDD	0.0667	0.0738	0.0666	111	99.8	51.0-141			10.3	29
4,4-DDE	0.0667	0.0710	0.0640	106	96.0	53.0-142			10.3	30
4,4-DDT	0.0667	0.0715	0.0652	107	97.8	47.0-143			9.17	30
Dieldrin	0.0667	0.0737	0.0665	110	99.7	54.0-141			10.2	29
Endosulfan I	0.0667	0.0709	0.0639	106	95.9	54.0-141			10.3	29

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3231461-1 07/06/17 10:19 • (LCSD) R3231461-2 07/06/17 10:32

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Endosulfan II	0.0667	0.0684	0.0617	103	92.5	53.0-140			10.3	28
Endosulfan sulfate	0.0667	0.0685	0.0619	103	92.8	52.0-141			10.1	29
Endrin	0.0667	0.0811	0.0736	122	110	52.0-137			9.71	29
Endrin aldehyde	0.0667	0.0561	0.0494	84.2	74.1	30.0-127			12.7	31
Endrin ketone	0.0667	0.0807	0.0730	121	109	51.0-139			10.0	28
Heptachlor	0.0667	0.0767	0.0701	115	105	53.0-144			8.98	29
Heptachlor epoxide	0.0667	0.0709	0.0642	106	96.2	54.0-137			9.96	28
Hexachlorobenzene	0.0667	0.0659	0.0593	98.8	89.0	50.0-135			10.5	28
Methoxychlor	0.0667	0.0780	0.0705	117	106	49.0-145			10.1	29
(S) Decachlorobiphenyl				*82.2*	*76.4*	*10.0-148*				
(S) Tetrachloro-m-xylene				*86.8*	*80.0*	*21.0-146*				

Method Blank (MB)

(MB) R3231608-1 07/07/17 09:03

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/kg		mg/kg	mg/kg
PCB 1016	U		0.00350	0.0170
PCB 1221	U		0.00537	0.0170
PCB 1232	U		0.00417	0.0170
PCB 1242	U		0.00318	0.0170
PCB 1248	U		0.00315	0.0170
PCB 1254	U		0.00472	0.0170
PCB 1260	U		0.00494	0.0170
(S) Decachlorobiphenyl	*89.4*			*10.0-148*
(S) Tetrachloro-m-xylene	*75.7*			*21.0-146*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3231608-2 07/07/17 09:17 • (LCSD) R3231608-3 07/07/17 09:30

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/kg	mg/kg	mg/kg	%	%	%			%	%
PCB 1260	0.167	0.134	0.0954	80.3	57.2	37.0-145			33.5	37
PCB 1016	0.167	0.107	0.0801	64.4	48.1	36.0-141			29.1	35
(S) Decachlorobiphenyl				*111*	*92.0*	*10.0-148*				
(S) Tetrachloro-m-xylene				*86.0*	*74.7*	*21.0-146*				

Method Blank (MB)

(MB) R3231515-3 07/06/17 15:48

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acenaphthene	U		0.00642	0.0330
Acenaphthylene	U		0.00671	0.0330
Anthracene	0.00669	J	0.00632	0.0330
Benzidine	U		0.0637	0.333
Benzo(a)anthracene	0.00819	J	0.00428	0.0330
Benzo(b)fluoranthene	U		0.00695	0.0330
Benzo(k)fluoranthene	0.00887	J	0.00582	0.0330
Benzo(g,h,i)perylene	0.00725	J	0.00721	0.0330
Benzo(a)pyrene	0.00812	J	0.00548	0.0330
Bis(2-chlorethoxy)methane	U		0.00770	0.333
Bis(2-chloroethyl)ether	U		0.00896	0.333
Bis(2-chloroisopropyl)ether	U		0.00760	0.333
4-Bromophenyl-phenylether	U		0.0114	0.333
2-Chloronaphthalene	U		0.00639	0.0330
4-Chlorophenyl-phenylether	U		0.00627	0.333
Chrysene	0.00848	J	0.00555	0.0330
Dibenz(a,h)anthracene	U		0.00821	0.0330
3,3-Dichlorobenzidine	U		0.0794	0.333
2,4-Dinitrotoluene	U		0.00607	0.333
2,6-Dinitrotoluene	U		0.00737	0.333
Fluoranthene	0.00615	J	0.00496	0.0330
Fluorene	U		0.00682	0.0330
Hexachlorobenzene	U		0.00856	0.333
Hexachloro-1,3-butadiene	U		0.0100	0.333
Hexachlorocyclopentadiene	U		0.0587	0.333
Hexachloroethane	U		0.0134	0.333
Indeno(1,2,3-cd)pyrene	0.00795	J	0.00772	0.0330
Isophorone	0.0134	J	0.00522	0.333
Naphthalene	U		0.00889	0.0330
Nitrobenzene	0.00776	J	0.00695	0.333
n-Nitrosodimethylamine	U		0.0647	0.333
n-Nitrosodiphenylamine	0.00597	J	0.00594	0.333
n-Nitrosodi-n-propylamine	U		0.00906	0.333
Phenanthrene	0.00664	J	0.00528	0.0330
Benzylbutyl phthalate	U		0.0103	0.333
Bis(2-ethylhexyl)phthalate	0.0131	J	0.0120	0.333
Di-n-butyl phthalate	U		0.0109	0.333
Diethyl phthalate	0.00767	J	0.00691	0.333
Dimethyl phthalate	0.00720	J	0.00540	0.333
Di-n-octyl phthalate	U		0.00907	0.333

Method Blank (MB)

(MB) R3231515-3 07/06/17 15:48

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Pyrene	U		0.0123	0.0330
1,2,4-Trichlorobenzene	U		0.00876	0.333
4-Chloro-3-methylphenol	0.00566	J	0.00477	0.333
2-Chlorophenol	U		0.00831	0.333
2,4-Dichlorophenol	U		0.00746	0.333
2,4-Dimethylphenol	U		0.0471	0.333
4,6-Dinitro-2-methylphenol	U		0.124	0.333
2,4-Dinitrophenol	U		0.0980	0.333
2-Nitrophenol	U		0.0130	0.333
4-Nitrophenol	U		0.0525	0.333
Pentachlorophenol	U		0.0480	0.333
Phenol	U		0.00695	0.333
2,4,6-Trichlorophenol	U		0.00779	0.333
(S) Nitrobenzene-d5	*87.2*			*18.0-125*
(S) 2-Fluorobiphenyl	*84.2*			*28.0-120*
(S) p-Terphenyl-d14	*76.3*			*13.0-131*
(S) Phenol-d5	*77.7*			*20.0-120*
(S) 2-Fluorophenol	*70.0*			*20.0-120*
(S) 2,4,6-Tribromophenol	*97.7*			*17.0-137*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3231515-1 07/06/17 14:57 • (LCSD) R3231515-2 07/06/17 15:22

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acenaphthene	0.667	0.461	0.426	69.2	63.9	47.0-120			7.87	21
Acenaphthylene	0.667	0.490	0.457	73.4	68.6	48.0-120			6.82	21
Anthracene	0.667	0.497	0.448	74.6	67.2	46.0-120			10.3	20
Benzidine	0.667	ND	ND	0.000	0.000	1.00-120	J4	J4	0.000	36
Benzo(a)anthracene	0.667	0.524	0.477	78.5	71.6	46.0-120			9.22	20
Benzo(b)fluoranthene	0.667	0.535	0.495	80.3	74.2	45.0-120			7.88	22
Benzo(k)fluoranthene	0.667	0.555	0.533	83.3	79.9	45.0-120			4.15	23
Benzo(g,h,i)perylene	0.667	0.543	0.492	81.4	73.7	48.0-120			9.87	21
Benzo(a)pyrene	0.667	0.558	0.504	83.6	75.6	46.0-120			10.1	21
Bis(2-chlorethoxy)methane	0.667	0.355	0.367	53.2	55.1	41.0-120			3.38	22
Bis(2-chloroethyl)ether	0.667	0.408	0.432	61.2	64.8	28.0-120			5.73	28
Bis(2-chloroisopropyl)ether	0.667	0.338	0.356	50.6	53.3	40.0-120			5.19	27
4-Bromophenyl-phenylether	0.667	0.504	0.457	75.6	68.5	45.0-120			9.78	20
2-Chloronaphthalene	0.667	0.439	0.414	65.8	62.1	43.0-120			5.82	22

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3231515-1 07/06/17 14:57 • (LCSD) R3231515-2 07/06/17 15:22

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
4-Chlorophenyl-phenylether	0.667	0.450	0.427	67.5	64.1	46.0-120			5.24	21
Chrysene	0.667	0.519	0.470	77.8	70.5	46.0-120			9.88	20
Dibenz(a,h)anthracene	0.667	0.586	0.538	87.9	80.7	47.0-120			8.52	22
3,3-Dichlorobenzidine	0.667	0.468	0.452	70.2	67.8	20.0-130			3.48	24
2,4-Dinitrotoluene	0.667	0.497	0.456	74.5	68.3	48.0-122			8.72	21
2,6-Dinitrotoluene	0.667	0.476	0.450	71.4	67.5	46.0-120			5.65	21
Fluoranthene	0.667	0.495	0.457	74.1	68.5	46.0-120			7.93	20
Fluorene	0.667	0.479	0.454	71.8	68.1	47.0-120			5.29	20
Hexachlorobenzene	0.667	0.541	0.492	81.2	73.7	42.0-120			9.62	20
Hexachloro-1,3-butadiene	0.667	0.299	0.312	44.8	46.8	36.0-120			4.33	26
Hexachlorocyclopentadiene	0.667	0.361	0.365	54.2	54.6	20.0-124			0.840	26
Hexachloroethane	0.667	0.336	0.350	50.3	52.5	32.0-120			4.20	31
Indeno(1,2,3-cd)pyrene	0.667	0.580	0.537	87.0	80.6	48.0-120			7.66	21
Isophorone	0.667	0.386	0.392	57.9	58.7	42.0-120			1.42	21
Naphthalene	0.667	0.318	0.325	47.6	48.7	41.0-120			2.36	24
Nitrobenzene	0.667	0.363	0.376	54.4	56.4	36.0-120			3.56	24
n-Nitrosodimethylamine	0.667	0.379	0.392	56.9	58.8	20.0-120			3.39	31
n-Nitrosodiphenylamine	0.667	0.499	0.447	74.8	67.0	42.0-120			11.0	20
n-Nitrosodi-n-propylamine	0.667	0.428	0.429	64.1	64.3	39.0-120			0.270	23
Phenanthrene	0.667	0.486	0.435	72.8	65.3	45.0-120			10.9	20
Benzylbutyl phthalate	0.667	0.535	0.482	80.2	72.2	41.0-123			10.4	20
Bis(2-ethylhexyl)phthalate	0.667	0.545	0.503	81.8	75.4	41.0-124			8.07	20
Di-n-butyl phthalate	0.667	0.493	0.446	73.9	66.8	44.0-120			10.1	20
Diethyl phthalate	0.667	0.499	0.471	74.9	70.6	46.0-120			5.93	20
Dimethyl phthalate	0.667	0.502	0.457	75.3	68.5	47.0-120			9.40	21
Di-n-octyl phthalate	0.667	0.526	0.476	78.8	71.3	40.0-123			9.98	21
Pyrene	0.667	0.505	0.454	75.7	68.0	45.0-120			10.7	21
1,2,4-Trichlorobenzene	0.667	0.315	0.324	47.2	48.5	40.0-120			2.73	25
4-Chloro-3-methylphenol	0.667	0.362	0.342	54.2	51.3	46.0-120			5.43	20
2-Chlorophenol	0.667	0.373	0.390	55.9	58.4	37.0-120			4.49	27
2,4-Dichlorophenol	0.667	0.378	0.361	56.6	54.0	45.0-120			4.63	21
2,4-Dimethylphenol	0.667	0.346	0.352	51.9	52.7	40.0-120			1.54	22
4,6-Dinitro-2-methylphenol	0.667	0.333	0.290	49.9	43.5	34.0-120			13.6	23
2,4-Dinitrophenol	0.667	0.209	0.192	31.3	28.8	10.0-120			8.08	30
2-Nitrophenol	0.667	0.338	0.339	50.6	50.9	42.0-120			0.510	24
4-Nitrophenol	0.667	0.442	0.400	66.2	59.9	40.0-120			10.0	21
Pentachlorophenol	0.667	0.427	0.373	64.0	56.0	33.0-122			13.4	22
Phenol	0.667	0.415	0.411	62.2	61.6	38.0-120			1.01	25
2,4,6-Trichlorophenol	0.667	0.496	0.458	74.4	68.6	47.0-120			8.10	22
(S) Nitrobenzene-d5				*54.2*	*56.9*	*18.0-125*				

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3231515-1 07/06/17 14:57 • (LCSD) R3231515-2 07/06/17 15:22

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
(S) 2-Fluorobiphenyl				*66.5*	*63.1*	*28.0-120*				
(S) p-Terphenyl-d14				*62.7*	*58.7*	*13.0-131*				
(S) Phenol-d5				*62.7*	*63.0*	*20.0-120*				
(S) 2-Fluorophenol				*57.3*	*59.1*	*20.0-120*				
(S) 2,4,6-Tribromophenol				*89.9*	*80.0*	*17.0-137*				

Abbreviations and Definitions

SDG	Sample Delivery Group.
MDL	Method Detection Limit.
MDL (dry)	Method Detection Limit.
RDL (dry)	Reported Detection Limit.
RDL	Reported Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
U	Not detected at the Reporting Limit (or MDL where applicable).
RPD	Relative Percent Difference.
(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
Rec.	Recovery.

Qualifier	Description
B	The same analyte is found in the associated blank.
J	The identification of the analyte is acceptable; the reported value is an estimate.
J0	J0: Calibration verification outside of acceptance limits. Result is estimated.
J3	The associated batch QC was outside the established quality control range for precision.
J4	The associated batch QC was outside the established quality control range for accuracy.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
O1	The analyte failed the method required serial dilution test and/or subsequent post-spike criteria. These failures indicate matrix interference.
V	The sample concentration is too high to evaluate accurate spike recoveries.

ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our "one location" design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be **YOUR LAB OF CHOICE.**
* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

State Accreditations

Alabama	40660	Nevada	TN-03-2002-34
Alaska	UST-080	New Hampshire	2975
Arizona	AZ0612	New Jersey–NELAP	TN002
Arkansas	88-0469	New Mexico	TN00003
California	01157CA	New York	11742
Colorado	TN00003	North Carolina	Env375
Conneticut	PH-0197	North Carolina [1]	DW21704
Florida	E87487	North Carolina [2]	41
Georgia	NELAP	North Dakota	R-140
Georgia [1]	923	Ohio–VAP	CL0069
Idaho	TN00003	Oklahoma	9915
Illinois	200008	Oregon	TN200002
Indiana	C-TN-01	Pennsylvania	68-02979
Iowa	364	Rhode Island	221
Kansas	E-10277	South Carolina	84004
Kentucky [1]	90010	South Dakota	n/a
Kentucky [2]	16	Tennessee [1 4]	2006
Louisiana	AI30792	Texas	T 104704245-07-TX
Maine	TN0002	Texas [5]	LAB0152
Maryland	324	Utah	6157585858
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	109
Minnesota	047-999-395	Washington	C1915
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA
Nebraska	NE-OS-15-05		

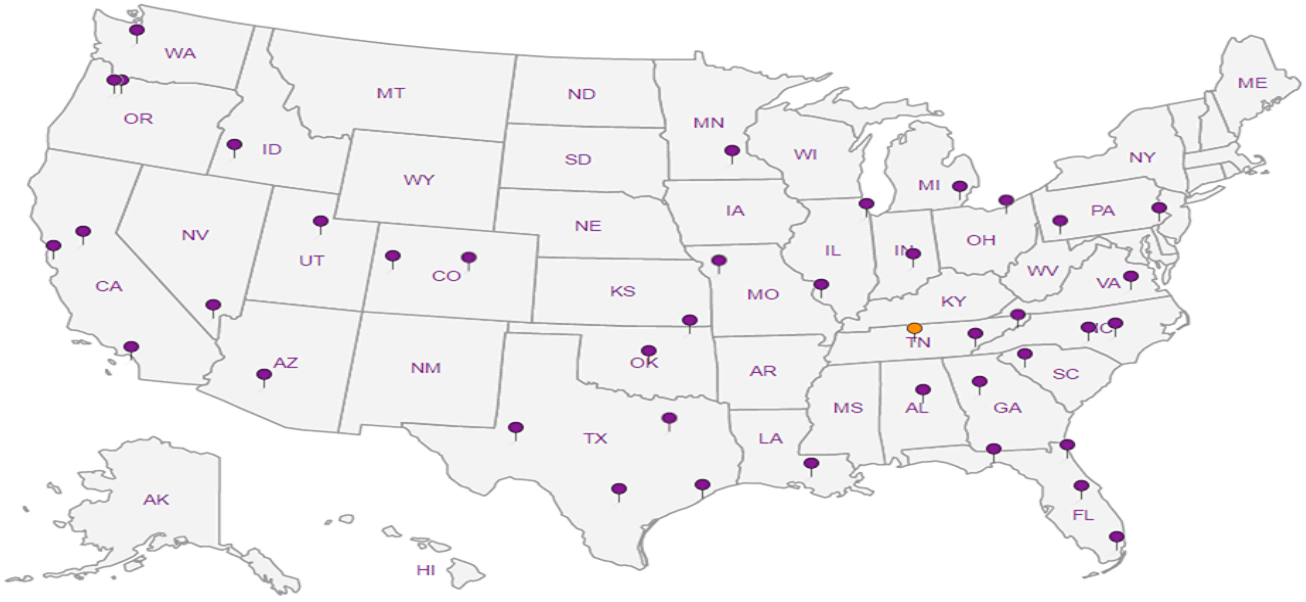
Third Party & Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	S-67674
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [n/a] Accreditation not applicable

Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. **ESC Lab Sciences performs all testing at our central laboratory.**



Remedial Construction Services, L.P.

950 West Valley Rd.
Suite 2802
Wayne PA 19087

Billing Information:
Accounts Payable
950 West Valley Rd., Ste. 2802
Wayne, PA 19087

Pres Chk

Report to: Mr. John Geary

Email To: john.geary@reconservices.com; kyle.snyder@reconservices.com

Project Description: FORMER SPERRY REMINGTON Elmira, NY

City/State Collected: ELMIRA, NY

Phone: 484-367-5400
Fax:

Client Project # 23925

Lab Project # REMCONWPA-0601175

Collected by (print): KYLE SNYDER

Site ID #

P.O. # 23925-0007

Collected by (signature):

Immediately Packed on Ice N___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day X Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	CN,CR3,CR6 4ozClr-NoPres	Mtls, TS 2ozClr-NoPres	SV8081/8082_SV8270D 4ozClr-NoPres	TS 4ozClr-NoPres	V8260C 40ml/NaHSO4/Syr/MeOH						Remarks	Sample # (lab only)
BP_1000-2000_COMP	COMP	SS	SURFACE	6/27/17	1335	3	X	X	X									-01
BP_2000-3000_COMP	COMP	SS	SURFACE	6/27/17	1345	3	X	X	X									02
BP_3000-4000_COMP	COMP	SS	SURFACE	6/27/17	1355	3	X	X	X									03
BP_4000-5000_COMP	COMP	SS	SURFACE	6/27/17	1415	3	X	X	X									04
BP_1000-2000_GRAB#1	GRAB	SS	SURFACE	6/27/17	1320	4				X	X							05
BP_1000-2000_GRAB#2	GRAB	SS	SURFACE	6/27/17	1330	4				X	X							06
BP_2000-3000_GRAB#1	GRAB	SS	SURFACE	6/27/17	1340	4				X	X							07
BP_2000-3000_GRAB#2	GRAB	SS	SURFACE	6/27/17	1350	4				X	X							08
BP_3000-4000_GRAB#1	GRAB	SS	SURFACE	6/27/17	1400	4				X	X							09
BP_3000-4000_GRAB#2	GRAB	SS	SURFACE	6/27/17	1410	4				X	X							10

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
___ UPS X FedEx ___ Courier _____

Tracking # 7372 1957 9306

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
	6/27/17	1710	
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)

Trip Blank Received: Yes / No HCl / MeoH TBR
2

Temp: 1.3 °C Bottles Received: 46

Date: 06-28-2017 Time: 0845

Sample Receipt Checklist
COC Seal Present/Intact: NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N

If preservation required by Login: Date/Time

Hold:

Condition: NCF (OK)

Chain of Custody Page 1 of 2

ESC LABORATORY SCIENCES
YOUR LAB OF CHOICE
12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# L914054
G203

Acctnum: REMCONWPA
Template: T124625
Prelogin: P607251
TSR: 364 - T. Alan Harvill
PB: 6/26 - FT CM

Shipped Via: FedEX Priority

Remedial Construction Services, L.P.

950 West Valley Rd.
Suite 2802
Wayne, PA 19087

Billing Information:
Accounts Payable
950 West Valley Rd., Ste. 2802
Wayne, PA 19087

Pres Chk

Report to: Mr. John Geary

Email To: john.geary@reconservices.com; kyle.snyder@reconservices.com

Project Description: Elmira, NY

City/State Collected: ELMIRA, NY

Phone: 484-367-5400
Fax:

Client Project # 23925

Lab Project # REMCONWPA-060117S

Collected by (print): Kyle Snyder

Site/Facility ID #

P.O. # 23925-0007

Collected by (signature):

Immediately Packed on Ice N___ Y___

Rush? (Lab MUST Be Notified)
___ Same Day X Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	CN,CR3,CR6 4ozClr-NoPres	Mtls, TS 2ozClr-NoPres	SV8081/8082, SV8270D 4ozClr-NoPres	TS 4ozClr-NoPres	V8260C 40ml/NaHSO4/Syr/MeOH						Remarks	Sample # (lab only)
BP_4000-5000_GRAB#1	GRAB	SS	SURFACE	6/27/17	1420	4				X	X							-11
BP_4000-5000_GRAB#2	GRAB	SS	SURFACE	6/27/17	1425	4				X	X							-12

Analysis / Container / Preservative

Chain of Custody Page 2 of 2

ESC LABS SCIENCES
YOUR LAB OF CHOICE
12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# L949641

Table #

Acctnum: REMCONWPA

Template: T124625

Prelogin: P607251

TSR: 364 - T. Alar Harvill

PB: 6.26.17CM

Shipped Via: FedEX Priority

* Matrix:
SS-Soil AIR-Air F-Filter
GW-Groundwater B-Bioassay
WW-WasteWater
DW-Drinking Water
OT-Other_____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS ✓ FedEx __ Courier __ _____

Tracking # 7372 1957 4306

Sample Receipt Checklist
COC Seal Present/Intact: NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeOH TBR
				2
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: 1.3 °C Bottles Received: 46
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 06-28-2017 Time: 0845

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

Account: REMCONWPA																				
Lab Sample ID				L919054-01					L919054-02					L919054-03						
Client Sample ID				BP-1000-2000-COM					BP-2000-3000-COM					BP-3000-4000-COM						
Date Collected				06/27/2017					06/27/2017					06/27/2017						
Method	Analyte	Units	NYSDEC DER10 App 5 Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010	Result	Qualifier	Validation result	Validation qualifier	Reason code	Result	Qualifier	Validation result	Validation qualifier	Reason code	Result	Qualifier	Validation result	Validation qualifier	Reason code		
2540 G-2011	TOTAL SOLIDS	%		96.7					97.3					97						
3060A/7196A	CHROMIUM,HEXAVALENT	mg/kg	19	<2.07					0.987	J				<2.06						
6010B	ARSENIC	mg/kg	16	4.63					5.15					5.06						
6010B	BARIUM	mg/kg	400	52.5					55.1					55.1						
6010B	BERYLLIUM	mg/kg	47	0.334					0.369					0.384						
6010B	CADMIUM	mg/kg	4.3	<0.517					<0.514					<0.516						
6010B	CHROMIUM	mg/kg		11.4					11.4					11.6						
6010B	COPPER	mg/kg	270	28					22.9					25						
6010B	LEAD	mg/kg	400	7.49					8.14					9.75						
6010B	MANGANESE	mg/kg	2000	547					305					412						
6010B	NICKEL	mg/kg	130	19.6					19					20						
6010B	SILVER	mg/kg	8.3	<1.03					<1.03					<1.03						
6010B	ZINC	mg/kg	2480	79.2					75.4					75.4						
7471A	MERCURY	mg/kg	0.73	0.0124	J				0.00781	J				0.0121	J					
8081	ALDRIN	mg/kg	0.097	<0.0207					<0.0206					<0.0206						
8081	ALPHA BHC	mg/kg	0.02	<0.0207					<0.0206					<0.0206						
8081	BETA BHC	mg/kg	0.09	<0.0207					<0.0206					<0.0206						
8081	DELTA BHC	mg/kg	0.25	<0.0207					<0.0206					<0.0206						
8081	GAMMA BHC	mg/kg	0.1	<0.0207					<0.0206					<0.0206						
8081	CHLORDANE	mg/kg		<0.207					<0.206					<0.206						
8081	4,4-DDD	mg/kg	13	<0.0207					<0.0206					<0.0206						
8081	4,4-DDE	mg/kg	8.9	<0.0207					<0.0206					<0.0206						
8081	4,4-DDT	mg/kg	7.9	<0.0207					<0.0206					<0.0206						
8081	DIELDRIN	mg/kg	0.1	<0.0207					<0.0206					<0.0206						
8081	ENDOSULFAN I	mg/kg	24	<0.0207					<0.0206					<0.0206						
8081	ENDOSULFAN II	mg/kg	24	<0.0207					<0.0206					<0.0206						
8081	ENDOSULFAN SULFATE	mg/kg	24	<0.0207					<0.0206					<0.0206						
8081	ENDRIN	mg/kg	0.06	<0.0207					<0.0206					<0.0206						
8081	ENDRIN ALDEHYDE	mg/kg		<0.0207					<0.0206					<0.0206						
8081	ENDRIN KETONE	mg/kg		<0.0207					<0.0206					<0.0206						
8081	HEPTACHLOR	mg/kg	0.38	<0.0207					<0.0206					<0.0206						
8081	HEPTACHLOR EPOXIDE	mg/kg		<0.0207					<0.0206					<0.0206						
8081	HEXACHLOROBENZENE	mg/kg	1.2	<0.0207					<0.0206					<0.0206						
8081	METHOXYCHLOR	mg/kg		<0.0207					<0.0206					<0.0206						
8081	TOXAPHENE	mg/kg		<0.414					<0.411					<0.412						
8081/8082	DECACHLOROBIPHENYL	% Rec		51.4 93.4					90.4 56.0					51.5 92.5						
8081/8082	TETRACHLORO-M-XYLENE	% Rec		69.8 85.9					83.8 75.4					79.8 67.8						
8082	PCB 1016	mg/kg		<0.0176					<0.0175					<0.0175						
8082	PCB 1221	mg/kg		<0.0176					<0.0175					<0.0175						
8082	PCB 1232	mg/kg		<0.0176					<0.0175					<0.0175						
8082	PCB 1242	mg/kg		<0.0176					<0.0175					<0.0175						
8082	PCB 1248	mg/kg		<0.0176					<0.0175					<0.0175						
8082	PCB 1254	mg/kg		<0.0176					<0.0175					<0.0175						
8082	PCB 1260	mg/kg		<0.0176					<0.0175					<0.0175						
8260C	ACETONE	mg/kg	0.05																	
8260C	ACRYLONITRILE	mg/kg																		
8260C	BENZENE	mg/kg	0.06																	
8260C	BROMOBENZENE	mg/kg																		
8260C	BROMODICHLOROMETHANE	mg/kg																		
8260C	BROMOFORM	mg/kg																		
8260C	BROMOMETHANE	mg/kg																		
8260C	N-BUTYLBENZENE	mg/kg	12																	
8260C	SEC-BUTYLBENZENE	mg/kg	11																	
8260C	TERT-BUTYLBENZENE	mg/kg	5.9																	
8260C	CARBON TETRACHLORIDE	mg/kg	0.76																	
8260C	CHLOROBENZENE	mg/kg	1.1																	
8260C	CHLORODIBROMOMETHANE	mg/kg																		
8260C	CHLOROETHANE	mg/kg																		
8260C	CHLOROFORM	mg/kg	0.37																	
8260C	CHLOROMETHANE	mg/kg																		
8260C	2-CHLOROTOLUENE	mg/kg																		
8260C	4-CHLOROTOLUENE	mg/kg																		
8260C	1,2-DIBROMO-3-CHLOROPROPANE	mg/kg																		
8260C	1,2-DIBROMOETHANE	mg/kg																		
8260C	DIBROMOMETHANE	mg/kg																		
8260C	1,2-DICHLOROBENZENE	mg/kg	1.1																	
8260C	1,3-DICHLOROBENZENE	mg/kg	2.4																	
8260C	1,4-DICHLOROBENZENE	mg/kg	1.8																	
8260C	DICHLORODIFLUOROMETHANE	mg/kg																		
8260C	1,1-DICHLOROETHANE	mg/kg	0.27																	
8260C	1,2-DICHLOROETHANE	mg/kg	0.02																	
8260C	1,1-DICHLOROETHENE	mg/kg	0.33																	
8260C	CIS-1,2-DICHLOROETHENE	mg/kg	0.25																	

Account: REMCONWPA																				
Lab Sample ID				L919054-01					L919054-02					L919054-03						
Client Sample ID				BP-1000-2000-COM					BP-2000-3000-COM					BP-3000-4000-COM						
Date Collected				06/27/2017					06/27/2017					06/27/2017						
Method	Analyte	Units	NYSDEC DER10 App 5 Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010	Result	Qualifier	Validation result	Validation qualifier	Reason code	Result	Qualifier	Validation result	Validation qualifier	Reason code	Result	Qualifier	Validation result	Validation qualifier	Reason code		
8260C	TRANS-1,2-DICHLOROETHENE	mg/kg	0.19																	
8260C	1,2-DICHLOROPROPANE	mg/kg																		
8260C	1,1-DICHLOROPROPENE	mg/kg																		
8260C	1,3-DICHLOROPROPANE	mg/kg																		
8260C	CIS-1,3-DICHLOROPROPENE	mg/kg																		
8260C	TRANS-1,3-DICHLOROPROPENE	mg/kg																		
8260C	2,2-DICHLOROPROPANE	mg/kg																		
8260C	DI-ISOPROPYL ETHER	mg/kg																		
8260C	ETHYLBENZENE	mg/kg	1																	
8260C	HEXACHLORO-1,3-BUTADIENE	mg/kg																		
8260C	ISOPROPYLBENZENE	mg/kg																		
8260C	P-ISOPROPYLTOLUENE	mg/kg																		
8260C	2-BUTANONE (MEK)	mg/kg	0.12																	
8260C	METHYLENE CHLORIDE	mg/kg	0.05																	
8260C	4-METHYL-2-PENTANONE (MIBK)	mg/kg																		
8260C	METHYL TERT-BUTYL ETHER	mg/kg	0.93																	
8260C	NAPHTHALENE	mg/kg	12																	
8260C	N-PROPYLBENZENE	mg/kg	3.9																	
8260C	STYRENE	mg/kg																		
8260C	1,1,1,2-TETRACHLOROETHANE	mg/kg																		
8260C	1,1,2,2-TETRACHLOROETHANE	mg/kg																		
8260C	1,1,2-TRICHLOROTRIFLUOROETHANE	mg/kg																		
8260C	TETRACHLOROETHENE	mg/kg	1.3																	
8260C	TOLUENE	mg/kg	0.7																	
8260C	1,2,3-TRICHLOROBENZENE	mg/kg																		
8260C	1,2,4-TRICHLOROBENZENE	mg/kg																		
8260C	1,1,1-TRICHLOROETHANE	mg/kg	0.68																	
8260C	1,1,2-TRICHLOROETHANE	mg/kg																		
8260C	TRICHLOROETHENE	mg/kg	0.47																	
8260C	TRICHLOROFLUOROMETHANE	mg/kg																		
8260C	1,2,3-TRICHLOROPROPANE	mg/kg																		
8260C	1,2,4-TRIMETHYLBENZENE	mg/kg	3.6																	
8260C	1,2,3-TRIMETHYLBENZENE	mg/kg																		
8260C	VINYL CHLORIDE	mg/kg	0.02																	
8260C	1,3,5-TRIMETHYLBENZENE	mg/kg	8.4																	
8260C	XYLENES, TOTAL	mg/kg	1.6																	
8260C	TOLUENE-D8	% Rec																		
8260C	DIBROMOFLUOROMETHANE	% Rec																		
8260C	4-BROMOFLUOROBENZENE	% Rec																		
8270D	ACENAPHTHENE	mg/kg	98	<0.0341					<0.0339					<0.034						
8270D	ACENAPHTHYLENE	mg/kg	100	<0.0341					<0.0339					<0.034						
8270D	ANTHRACENE	mg/kg	100	<0.0341					<0.0339					<0.034						
8270D	BENZIDINE	mg/kg		<0.345	J4		R	5	<0.342	J4		R	5	<0.343	J4		R	5		
8270D	BENZO(A)ANTHRACENE	mg/kg	1	<0.0341					<0.0339					<0.034						
8270D	BENZO(B)FLUORANTHENE	mg/kg	1	<0.0341					<0.0339					<0.034						
8270D	BENZO(K)FLUORANTHENE	mg/kg	1.7	<0.0341					<0.0339					<0.034						
8270D	BENZO(G,H,I)PERYLENE	mg/kg	100	<0.0341					<0.0339					<0.034						
8270D	BENZO(A)PYRENE	mg/kg	1	<0.0341					<0.0339					<0.034						
8270D	BIS(2-CHLORETHOXY)METHANE	mg/kg		<0.345					<0.342					<0.343						
8270D	BIS(2-CHLOROETHYL)ETHER	mg/kg		<0.345					<0.342					<0.343						
8270D	BIS(2-CHLOROISOPROPYL)ETHER	mg/kg		<0.345					<0.342					<0.343						
8270D	4-BROMOPHENYL-PHENYLETHER	mg/kg		<0.345					<0.342					<0.343						
8270D	2-CHLORONAPHTHALENE	mg/kg		<0.0341					<0.0339					<0.034						
8270D	4-CHLOROPHENYL-PHENYLETHER	mg/kg		<0.345					<0.342					<0.343						
8270D	CHRYSENE	mg/kg	1	<0.0341					<0.0339					<0.034						
8270D	DIBENZ(A,H)ANTHRACENE	mg/kg	0.33	<0.0341					<0.0339					<0.034						
8270D	3,3-DICHLOROBENZIDINE	mg/kg		<0.345					<0.342					<0.343						
8270D	2,4-DINITROTOLUENE	mg/kg		<0.345					<0.342					<0.343						
8270D	2,6-DINITROTOLUENE	mg/kg		<0.345					<0.342					<0.343						
8270D	FLUORANTHENE	mg/kg	100	<0.0341					<0.0339					<0.034						
8270D	FLUORENE	mg/kg	100	<0.0341					<0.0339					<0.034						
8270D	HEXACHLOROBENZENE	mg/kg	1.2	<0.345					<0.342					<0.343						
8270D	HEXACHLORO-1,3-BUTADIENE	mg/kg		<0.345					<0.342					<0.343						
8270D	HEXACHLOROCYCLOPENTADIENE	mg/kg		<0.345					<0.342					<0.343						
8270D	HEXACHLOROETHANE	mg/kg		<0.345					<0.342					<0.343						
8270D	INDENO(1,2,3-CD)PYRENE	mg/kg	0.5	<0.0341					<0.0339					<0.034						
8270D	ISOPHORONE	mg/kg		<0.345					<0.342					<0.343						
8270D	NAPHTHALENE	mg/kg	12	<0.0341					<0.0339					<0.034						
8270D	NITROBENZENE	mg/kg		<0.345					<0.342					<0.343						
8270D	N-NITROSODIMETHYLAMINE	mg/kg		<0.345					<0.342					<0.343						
8270D	N-NITROSODIPHENYLAMINE	mg/kg		<0.345					<0.342					<0.343						
8270D	N-NITROSODI-N-PROPYLAMINE	mg/kg		<0.345					<0.342					<0.343						
8270D	PHENANTHRENE	mg/kg	100	<0.0341					<0.0339					<0.034						
8270D	BENZYLBUTYL PHTHALATE	mg/kg		<0.345					<0.342					<0.343						
8270D	BIS(2-ETHYLHEXYL)PHTHALATE	mg/kg		<0.345					<0.342					<0.343						

Account: REMCONWPA																			
Lab Sample ID				L919054-01					L919054-02					L919054-03					
Client Sample ID				BP-1000-2000-COM					BP-2000-3000-COM					BP-3000-4000-COM					
Date Collected				06/27/2017					06/27/2017					06/27/2017					
Method	Analyte	Units	NYSDEC DER10 App 5 Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010	Result	Qualifier	Validation result	Validation qualifier	Reason code	Result	Qualifier	Validation result	Validation qualifier	Reason code	Result	Qualifier	Validation result	Validation qualifier	Reason code
8270D	DI-N-BUTYL PHTHALATE	mg/kg		<0.345					<0.342					<0.343				
8270D	DIETHYL PHTHALATE	mg/kg		<0.345					<0.342					<0.343				
8270D	DIMETHYL PHTHALATE	mg/kg		<0.345					<0.342					<0.343				
8270D	DI-N-OCTYL PHTHALATE	mg/kg		<0.345					<0.342					<0.343				
8270D	PYRENE	mg/kg	100	<0.0341					<0.0339					<0.034				
8270D	1,2,4-TRICHLOROBENZENE	mg/kg		<0.345					<0.342					<0.343				
8270D	4-CHLORO-3-METHYLPHENOL	mg/kg		<0.345					<0.342					<0.343				
8270D	2-CHLOROPHENOL	mg/kg		<0.345					<0.342					<0.343				
8270D	2,4-DICHLOROPHENOL	mg/kg		<0.345					<0.342					<0.343				
8270D	2,4-DIMETHYLPHENOL	mg/kg		<0.345					<0.342					<0.343				
8270D	4,6-DINITRO-2-METHYLPHENOL	mg/kg		<0.345					<0.342					<0.343				
8270D	2,4-DINITROPHENOL	mg/kg		<0.345					<0.342					<0.343				
8270D	2-NITROPHENOL	mg/kg		<0.345					<0.342					<0.343				
8270D	4-NITROPHENOL	mg/kg		<0.345					<0.342					<0.343				
8270D	PENTACHLOROPHENOL	mg/kg	0.8	<0.345					<0.342					<0.343				
8270D	PHENOL	mg/kg	0.33	<0.345					<0.342					<0.343				
8270D	2,4,6-TRICHLOROPHENOL	mg/kg		<0.345					<0.342					<0.343				
8270D	2-FLUOROPHENOL	% Rec		61.9					67.9					66.3				
8270D	PHENOL-D5	% Rec		66.4					77.4					72.9				
8270D	NITROBENZENE-D5	% Rec		66					82.5					73.6				
8270D	2-FLUOROBIPHENYL	% Rec		67.7					78.6					74.6				
8270D	2,4,6-TRIBROMOPHENOL	% Rec		84.7					102					98.7				
8270D	P-TERPHENYL-D14	% Rec		66.4					76.1					76.3				
9012B	CYANIDE	mg/kg	27	<0.259					<0.257					<0.258				
Calc.	CHROMIUM,TRIVALENT	mg/kg	180	11.4					10.4					11.6				

Qualifiers:B: The same analyte is found in the associated blank.J: The identification of the analyte is acceptable; the reported value is an estimate.J0: J0: Calibration verification outside of acceptance limits. Result is estimated.J4: The associated batch QC v

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Lab Sample ID				L919054-04					L919054-05					L919054-06					L919054-07					L919054-08				
Client Sample ID				BP-4000-5000-COM					BP-1000-2000-GRAB					BP-1000-2000-GRAB					BP-2000-3000-GRAB					BP-2000-3000-GRAB				
Date Collected				06/27/2017					06/27/2017					06/27/2017					06/27/2017					06/27/2017				
Method	Analyte	Units	NYSDEC DER10 App 5 Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010	Result	Qualifier	Validation result	Validation qualifier	Reason code	Result	Qualifier	Validation result	Validation qualifier	Reason code	Result	Qualifier	Validation result	Validation qualifier	Reason code	Result	Qualifier	Validation result	Validation qualifier	Reason code	Result	Qualifier	Validation result	Validation qualifier	Reason code
2540 G-2011	TOTAL SOLIDS	%		96.1					96.6					95.9					97.7					96.7				
3060A/7196A	CHROMIUM,HEXAVALENT	mg/kg	19	<2.08																								
6010B	ARSENIC	mg/kg	16	6.12																								
6010B	BARIUM	mg/kg	400	60.9																								
6010B	BERYLLIUM	mg/kg	47	0.389																								
6010B	CADMIUM	mg/kg	4.3	<0.52																								
6010B	CHROMIUM	mg/kg		12																								
6010B	COPPER	mg/kg	270	26.6																								
6010B	LEAD	mg/kg	400	12.1																								
6010B	MANGANESE	mg/kg	2000	449	O1 V																							
6010B	NICKEL	mg/kg	130	22.8																								
6010B	SILVER	mg/kg	8.3	<1.04																								
6010B	ZINC	mg/kg	2480	84	J6 O1		J	4,8																				
7471A	MERCURY	mg/kg	0.73	0.0187	J																							
8081	ALDRIN	mg/kg	0.097	<0.0208																								
8081	ALPHA BHC	mg/kg	0.02	<0.0208																								
8081	BETA BHC	mg/kg	0.09	<0.0208																								
8081	DELTA BHC	mg/kg	0.25	<0.0208																								
8081	GAMMA BHC	mg/kg	0.1	<0.0208																								
8081	CHLORDANE	mg/kg		<0.208																								
8081	4,4-DDD	mg/kg	13	<0.0208																								
8081	4,4-DDE	mg/kg	8.9	<0.0208																								
8081	4,4-DDT	mg/kg	7.9	<0.0208																								
8081	DIELDRIN	mg/kg	0.1	<0.0208																								
8081	ENDOSULFAN I	mg/kg	24	<0.0208																								
8081	ENDOSULFAN II	mg/kg	24	<0.0208																								
8081	ENDOSULFAN SULFATE	mg/kg	24	<0.0208																								
8081	ENDRIN	mg/kg	0.06	<0.0208																								
8081	ENDRIN ALDEHYDE	mg/kg		<0.0208																								
8081	ENDRIN KETONE	mg/kg		<0.0208																								
8081	HEPTACHLOR	mg/kg	0.38	<0.0208																								
8081	HEPTACHLOR EPOXIDE	mg/kg		<0.0208																								
8081	HEXACHLOROBENZENE	mg/kg	1.2	<0.0208																								
8081	METHOXYCHLOR	mg/kg		<0.0208																								
8081	TOXAPHENE	mg/kg		<0.416																								
8081/8082	DECACHLOROBIPHENYL	% Rec		87.7 61.3																								
8081/8082	TETRACHLORO-M-XYLENE	% Rec		78.8 80.8																								
8082	PCB 1016	mg/kg		<0.0177																								
8082	PCB 1221	mg/kg		<0.0177																								
8082	PCB 1232	mg/kg		<0.0177																								
8082	PCB 1242	mg/kg		<0.0177																								
8082	PCB 1248	mg/kg		<0.0177																								
8082	PCB 1254	mg/kg		<0.0177																								
8082	PCB 1260	mg/kg		<0.0177																								
8260C	ACETONE	mg/kg	0.05						<0.0517	J0				<0.0522	J0				<0.0532	J0				<0.0517	J0			
8260C	ACRYLONITRILE	mg/kg							<0.0103					<0.0104					<0.0106					<0.0103				
8260C	BENZENE	mg/kg	0.06						0.00293					0.00181					0.00218					0.00181				
8260C	BROMOBENZENE	mg/kg							<0.00103					<0.00104					<0.00106					<0.00103				
8260C	BROMODICHLOROMETHANE	mg/kg							<0.00103					<0.00104					<0.00106					<0.00103				
8260C	BROMOFORM	mg/kg							<0.00103					<0.00104					<0.00106					<0.00103				
8260C	BROMOMETHANE	mg/kg							<0.00517					<0.00522					<0.00532					<0.00517				
8260C	N-BUTYLBENZENE	mg/kg	12						<0.00103					<0.00104					<0.00106					<0.00103				
8260C	SEC-BUTYLBENZENE	mg/kg	11						<0.00103					<0.00104					<0.00106					<0.00103				
8260C	TERT-BUTYLBENZENE	mg/kg	5.9						<0.00103					<0.00104					<0.00106					<0.00103				
8260C	CARBON TETRACHLORIDE	mg/kg	0.76						<0.00103					<0.00104					<0.00106					<0.00103				
8260C	CHLOROBENZENE	mg/kg	1.1						<0.00103					<0.00104					<0.00106					<0.00103				
8260C	CHLORODIBROMOMETHANE	mg/kg							<0.00103					<0.00104					<0.00106					<0.00103				
8260C	CHLOROETHANE	mg/kg							<0.00517					<0.00522					<0.00532					<0.00517				
8260C	CHLOROFORM	mg/kg	0.37						<0.00517					<0.00522					<0.00532					<0.00517				
8260C	CHLOROMETHANE	mg/kg							<0.00259					<0.00261					<0.00266					<0.00259				
8260C	2-CHLOROTOLUENE	mg/kg							<0.00103					<0.00104					<0.00106					<0.00103				
8260C	4-CHLOROTOLUENE	mg/kg							<0.00103					<0.00104					<0.00106					<0.00103				
8260C	1,2-DIBROMO-3-CHLOROPROPANE	mg/kg							<0.00517	J0				<0.00522	J0				<0.00532	J0				<0.00517	J0			
8260C	1,2-DIBROMOETHANE	mg/kg							<0.00103					<0.00104					<0.00106					<0.00103				
8260C	DIBROMOMETHANE	mg/kg							<0.00103					<0.00104					<0.00106					<0.00103				
8260C	1,2-DICHLOROBENZENE	mg/kg	1.1						<0.00103					<0.00104					<0.00106					<0.00103				
8260C	1,3-DICHLOROBENZENE	mg/kg	2.4						<0.00103					<0.00104					<0.00106					<0.00103				
8260C	1,4-DICHLOROBENZENE	mg/kg	1.8						<0.00103					<0.00104					<0.00106					<0.00103				
8260C	DICHLORODIFLUOROMETHANE	mg/kg							<0.00517	J4				<0.00522	J4				<0.00532	J4				<0.00517	J4			
8260C	1,1-DICHLOROETHANE	mg/kg	0.27						<0.00103					<0.00104					<0.00106					<0.00103				
8260C	1,2-DICHLOROETHANE	mg/kg	0.02						<0.00103					<0.00104					<0.00106					<0.00103				
8260C	1,1-DICHLOROETHENE	mg/kg	0.33						<0.00103	J4				<0.00104	J4				<0.00106	J4				<0.00103	J4			
8260C	CIS-1,2-DICHLOROETHENE	mg/kg	0.25						<0.00103					<0.00104					<0.00106					<0.00103				

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Lab Sample ID				L919054-04					L919054-05					L919054-06					L919054-07					L919054-08				
Client Sample ID				BP-4000-5000-COM					BP-1000-2000-GRAB					BP-1000-2000-GRAB					BP-2000-3000-GRAB					BP-2000-3000-GRAB				
Date Collected				06/27/2017					06/27/2017					06/27/2017					06/27/2017					06/27/2017				
Method	Analyte	Units	NYSDEC DER10 App 5 Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010	Result	Qualifier	Validation result	Validation qualifier	Reason code	Result	Qualifier	Validation result	Validation qualifier	Reason code	Result	Qualifier	Validation result	Validation qualifier	Reason code	Result	Qualifier	Validation result	Validation qualifier	Reason code	Result	Qualifier	Validation result	Validation qualifier	Reason code
8260C	TRANS-1,2-DICHLOROETHENE	mg/kg	0.19						<0.00103					<0.00104					<0.00106					<0.00103				
8260C	1,2-DICHLOROPROPANE	mg/kg							<0.00103					<0.00104					<0.00106					<0.00103				
8260C	1,1-DICHLOROPROPENE	mg/kg							<0.00103					<0.00104					<0.00106					<0.00103				
8260C	1,3-DICHLOROPROPANE	mg/kg							<0.00103					<0.00104					<0.00106					<0.00103				
8260C	CIS-1,3-DICHLOROPROPENE	mg/kg							<0.00103					<0.00104					<0.00106					<0.00103				
8260C	TRANS-1,3-DICHLOROPROPENE	mg/kg							<0.00103					<0.00104					<0.00106					<0.00103				
8260C	2,2-DICHLOROPROPANE	mg/kg							<0.00103					<0.00104					<0.00106					<0.00103				
8260C	DI-ISOPROPYL ETHER	mg/kg							<0.00103					<0.00104					<0.00106					<0.00103				
8260C	ETHYLBENZENE	mg/kg	1						0.000354	J				<0.00104					<0.00106					<0.00103				
8260C	HEXACHLORO-1,3-BUTADIENE	mg/kg							<0.00103					<0.00104					<0.00106					<0.00103				
8260C	ISOPROPYLBENZENE	mg/kg							<0.00103					<0.00104					<0.00106					<0.00103				
8260C	P-ISOPROPYLTOLUENE	mg/kg							<0.00103					<0.00104					<0.00106					<0.00103				
8260C	2-BUTANONE (MEK)	mg/kg	0.12						<0.0103	J0				<0.0104	J0				<0.0106	J0				<0.0103	J0			
8260C	METHYLENE CHLORIDE	mg/kg	0.05						<0.00517					<0.00522					<0.00532					<0.00517				
8260C	4-METHYL-2-PENTANONE (MIBK)	mg/kg							<0.0103	J0				<0.0104	J0				<0.0106	J0				<0.0103	J0			
8260C	METHYL TERT-BUTYL ETHER	mg/kg	0.93						<0.00103					<0.00104					<0.00106					<0.00103				
8260C	NAPHTHALENE	mg/kg	12						<0.00517					<0.00522					<0.00532					<0.00517				
8260C	N-PROPYLBENZENE	mg/kg	3.9						<0.00103					<0.00104					<0.00106					<0.00103				
8260C	STYRENE	mg/kg							<0.00103					<0.00104					<0.00106					<0.00103				
8260C	1,1,1,2-TETRACHLOROETHANE	mg/kg							<0.00103					<0.00104					<0.00106					<0.00103				
8260C	1,1,2,2-TETRACHLOROETHANE	mg/kg							<0.00103					<0.00104					<0.00106					<0.00103				
8260C	1,1,2-TRICHLOROTRIFLUOROETHANE	mg/kg							<0.00103	J4				<0.00104	J4				<0.00106	J4				<0.00103	J4			
8260C	TETRACHLOROETHENE	mg/kg	1.3						<0.00103					<0.00104					<0.00106					<0.00103				
8260C	TOLUENE	mg/kg	0.7						0.00591					0.00387	J				0.0042	J				0.00345	J			
8260C	1,2,3-TRICHLOROBENZENE	mg/kg							0.000714	B J	0.00103	U	3	<0.00104					<0.00106					<0.00103				
8260C	1,2,4-TRICHLOROBENZENE	mg/kg							<0.00103					<0.00104					<0.00106					<0.00103				
8260C	1,1,1-TRICHLOROETHANE	mg/kg	0.68						<0.00103					<0.00104					<0.00106					<0.00103				
8260C	1,1,2-TRICHLOROETHANE	mg/kg							<0.00103					<0.00104					<0.00106					<0.00103				
8260C	TRICHLOROETHENE	mg/kg	0.47						0.000685	J				<0.00104					0.0006	J				0.000704	J			
8260C	TRICHLOROFLUOROMETHANE	mg/kg							<0.00517	J4				<0.00522	J4				<0.00532	J4				<0.00517	J4			
8260C	1,2,3-TRICHLOROPROPANE	mg/kg							<0.00259					<0.00261					<0.00266					<0.00259				
8260C	1,2,4-TRIMETHYLBENZENE	mg/kg	3.6						0.00123					0.000833	J				0.000797	J				0.000535	J			
8260C	1,2,3-TRIMETHYLBENZENE	mg/kg							<0.00103					<0.00104					<0.00106					<0.00103				
8260C	VINYL CHLORIDE	mg/kg	0.02						<0.00103					<0.00104					<0.00106					<0.00103				
8260C	1,3,5-TRIMETHYLBENZENE	mg/kg	8.4						0.000857	J				0.00054	J				0.000599	J				0.000334	J			
8260C	XYLENES, TOTAL	mg/kg	1.6						0.00521					0.00301	J				0.00336					0.00248	J			
8260C	TOLUENE-D8	% Rec							105					104					102					103				
8260C	DIBROMOFLUOROMETHANE	% Rec							106					101					105					98.8				
8260C	4-BROMOFLUOROBENZENE	% Rec							100					96.5					100					100				
8270D	ACENAPHTHENE	mg/kg	98	<0.0343																								
8270D	ACENAPHTHYLENE	mg/kg	100	<0.0343																								
8270D	ANTHRACENE	mg/kg	100	<0.0343																								
8270D	BENZIDINE	mg/kg		<0.346	J4		R	5																				
8270D	BENZO(A)ANTHRACENE	mg/kg	1	<0.0343																								
8270D	BENZO(B)FLUORANTHENE	mg/kg	1	<0.0343																								
8270D	BENZO(K)FLUORANTHENE	mg/kg	1.7	<0.0343																								
8270D	BENZO(G,H,I)PERYLENE	mg/kg	100	<0.0343																								
8270D	BENZO(A)PYRENE	mg/kg	1	<0.0343																								
8270D	BIS(2-CHLORETHOXY)METHANE	mg/kg		<0.346																								
8270D	BIS(2-CHLOROETHYL)ETHER	mg/kg		<0.346																								
8270D	BIS(2-CHLOROISOPROPYL)ETHER	mg/kg		<0.346																								
8270D	4-BROMOPHENYL-PHENYLETHER	mg/kg		<0.346																								
8270D	2-CHLORONAPHTHALENE	mg/kg		<0.0343																								
8270D	4-CHLOROPHENYL-PHENYLETHER	mg/kg		<0.346																								
8270D	CHRYSENE	mg/kg	1	<0.0343																								
8270D	DIBENZ(A,H)ANTHRACENE	mg/kg	0.33	<0.0343																								
8270D	3,3-DICHLOROBENZIDINE	mg/kg		<0.346																								
8270D	2,4-DINITROTOLUENE	mg/kg		<0.346																								
8270D	2,6-DINITROTOLUENE	mg/kg		<0.346																								
8270D	FLUORANTHENE	mg/kg	100	<0.0343																								
8270D	FLUORENE	mg/kg	100	<0.0343																								
8270D	HEXACHLOROBENZENE	mg/kg	1.2	<0.346																								
8270D	HEXACHLORO-1,3-BUTADIENE	mg/kg		<0.346																								
8270D	HEXACHLOROCYCLOPENTADIENE	mg/kg		<0.346																								
8270D	HEXACHLOROETHANE	mg/kg		<0.346																								
8270D	INDENO(1,2,3-CD)PYRENE	mg/kg	0.5	<0.0343																								
8270D	ISOPHORONE	mg/kg		<0.346																								
8270D	NAPHTHALENE	mg/kg	12	<0.0343																								
8270D	NITROBENZENE	mg/kg		<0.346																								
8270D	N-NITROSODIMETHYLAMINE	mg/kg		<0.346																								
8270D	N-NITROSODIPHENYLAMINE	mg/kg		<0.346																								
8270D	N-NITROSODI-N-PROPYLAMINE	mg/kg		<0.346																								
8270D	PHENANTHRENE	mg/kg	100	<0.0343																								
8270D	BENZYLBUTYL PHTHALATE	mg/kg		<0.346																								
8270D	BIS(2-ETHYLHEXYL)PHTHALATE	mg/kg		<0.346																								

Account: REMCONWPA																												
Lab Sample ID				L919054-04					L919054-05					L919054-06					L919054-07					L919054-08				
Client Sample ID				BP-4000-5000-COM					BP-1000-2000-GRAB					BP-1000-2000-GRAB					BP-2000-3000-GRAB					BP-2000-3000-GRAB				
Date Collected				06/27/2017					06/27/2017					06/27/2017					06/27/2017					06/27/2017				
Method	Analyte	Units	NYSDEC DER10 App 5 Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010	Result	Qualifier	Validation result	Validation qualifier	Reason code	Result	Qualifier	Validation result	Validation qualifier	Reason code	Result	Qualifier	Validation result	Validation qualifier	Reason code	Result	Qualifier	Validation result	Validation qualifier	Reason code	Result	Qualifier	Validation result	Validation qualifier	Reason code
8270D	DI-N-BUTYL PHTHALATE	mg/kg		<0.346																								
8270D	DIETHYL PHTHALATE	mg/kg		<0.346																								
8270D	DIMETHYL PHTHALATE	mg/kg		<0.346																								
8270D	DI-N-OCTYL PHTHALATE	mg/kg		<0.346																								
8270D	PYRENE	mg/kg	100	<0.0343																								
8270D	1,2,4-TRICHLOROBENZENE	mg/kg		<0.346																								
8270D	4-CHLORO-3-METHYLPHENOL	mg/kg		<0.346																								
8270D	2-CHLOROPHENOL	mg/kg		<0.346																								
8270D	2,4-DICHLOROPHENOL	mg/kg		<0.346																								
8270D	2,4-DIMETHYLPHENOL	mg/kg		<0.346																								
8270D	4,6-DINITRO-2-METHYLPHENOL	mg/kg		<0.346																								
8270D	2,4-DINITROPHENOL	mg/kg		<0.346																								
8270D	2-NITROPHENOL	mg/kg		<0.346																								
8270D	4-NITROPHENOL	mg/kg		<0.346																								
8270D	PENTACHLOROPHENOL	mg/kg	0.8	<0.346																								
8270D	PHENOL	mg/kg	0.33	<0.346																								
8270D	2,4,6-TRICHLOROPHENOL	mg/kg		<0.346																								
8270D	2-FLUOROPHENOL	% Rec		68.3																								
8270D	PHENOL-D5	% Rec		74.7																								
8270D	NITROBENZENE-D5	% Rec		83.6																								
8270D	2-FLUOROBIPHENYL	% Rec		81.4																								
8270D	2,4,6-TRIBROMOPHENOL	% Rec		94.6																								
8270D	P-TERPHENYL-D14	% Rec		72.9																								
9012B	CYANIDE	mg/kg	27	<0.26																								
Calc.	CHROMIUM,TRIVALENT	mg/kg	180	12																								

Qualifiers:B: The same analyte is found in the associated blank.J: The identification of the analyte is acceptawas outside the established quality control range for accuracyJ6: The sample matrix interfered with the ability to make any accurate determination; spike value is lowO1: The analyte failed the method required serial dilution test and/or subsequent posi

Account: REMCONWPA																						
Lab Sample ID				L919054-09					L919054-10					L919054-11					L919054-12			
Client Sample ID				BP-3000-4000-GRAB					BP-3000-4000-GRAB					BP-4000-5000-GRAB					BP-4000-5000-GRAB			
Date Collected				06/27/2017					06/27/2017					06/27/2017					06/27/2017			
Method	Analyte	Units	NYSDEC DER10 App 5 Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010	Result	Qualifier	Validation result	Validation qualifier	Reason code	Result	Qualifier	Validation result	Validation qualifier	Reason code	Result	Qualifier	Validation result	Validation qualifier	Reason code	Result	Qualifier	Validation result	Validation qualifier
2540 G-2011	TOTAL SOLIDS	%		97.2					95.7					96.4					97			
3060A/7196A	CHROMIUM,HEXAVALENT	mg/kg	19																			
6010B	ARSENIC	mg/kg	16																			
6010B	BARIUM	mg/kg	400																			
6010B	BERYLLIUM	mg/kg	47																			
6010B	CADMIUM	mg/kg	4.3																			
6010B	CHROMIUM	mg/kg																				
6010B	COPPER	mg/kg	270																			
6010B	LEAD	mg/kg	400																			
6010B	MANGANESE	mg/kg	2000																			
6010B	NICKEL	mg/kg	130																			
6010B	SILVER	mg/kg	8.3																			
6010B	ZINC	mg/kg	2480																			
7471A	MERCURY	mg/kg	0.73																			
8081	ALDRIN	mg/kg	0.097																			
8081	ALPHA BHC	mg/kg	0.02																			
8081	BETA BHC	mg/kg	0.09																			
8081	DELTA BHC	mg/kg	0.25																			
8081	GAMMA BHC	mg/kg	0.1																			
8081	CHLORDANE	mg/kg																				
8081	4,4-DDD	mg/kg	13																			
8081	4,4-DDE	mg/kg	8.9																			
8081	4,4-DDT	mg/kg	7.9																			
8081	DIELDRIN	mg/kg	0.1																			
8081	ENDOSULFAN I	mg/kg	24																			
8081	ENDOSULFAN II	mg/kg	24																			
8081	ENDOSULFAN SULFATE	mg/kg	24																			
8081	ENDRIN	mg/kg	0.06																			
8081	ENDRIN ALDEHYDE	mg/kg																				
8081	ENDRIN KETONE	mg/kg																				
8081	HEPTACHLOR	mg/kg	0.38																			
8081	HEPTACHLOR EPOXIDE	mg/kg																				
8081	HEXACHLOROBENZENE	mg/kg	1.2																			
8081	METHOXYCHLOR	mg/kg																				
8081	TOXAPHENE	mg/kg																				
8081/8082	DECACHLOROBIPHENYL	% Rec																				
8081/8082	TETRACHLORO-M-XYLENE	% Rec																				
8082	PCB 1016	mg/kg																				
8082	PCB 1221	mg/kg																				
8082	PCB 1232	mg/kg																				
8082	PCB 1242	mg/kg																				
8082	PCB 1248	mg/kg																				
8082	PCB 1254	mg/kg																				
8082	PCB 1260	mg/kg																				
8260C	ACETONE	mg/kg	0.05	<0.0515	J0				<0.0527	J0				<0.0679	J0				<0.0516	J0		
8260C	ACRYLONITRILE	mg/kg		<0.0103					<0.0105					<0.0136					<0.0103			
8260C	BENZENE	mg/kg	0.06	0.00187					0.00162					0.00209					0.0017			
8260C	BROMOBENZENE	mg/kg		<0.00103					<0.00105					<0.00136					<0.00103			
8260C	BROMODICHLOROMETHANE	mg/kg		<0.00103					<0.00105					<0.00136					<0.00103			
8260C	BROMOFORM	mg/kg		<0.00103					<0.00105					<0.00136					<0.00103			
8260C	BROMOMETHANE	mg/kg		<0.00515					<0.00527					<0.00679					<0.00516			
8260C	N-BUTYLBENZENE	mg/kg	12	<0.00103					<0.00105					<0.00136					<0.00103			
8260C	SEC-BUTYLBENZENE	mg/kg	11	<0.00103					<0.00105					<0.00136					<0.00103			
8260C	TERT-BUTYLBENZENE	mg/kg	5.9	<0.00103					<0.00105					<0.00136					<0.00103			
8260C	CARBON TETRACHLORIDE	mg/kg	0.76	<0.00103					<0.00105					<0.00136					<0.00103			
8260C	CHLOROBENZENE	mg/kg	1.1	<0.00103					<0.00105					<0.00136					<0.00103			
8260C	CHLORODIBROMOMETHANE	mg/kg		<0.00103					<0.00105					<0.00136					<0.00103			
8260C	CHLOROETHANE	mg/kg		<0.00515					<0.00527					<0.00679					<0.00516			
8260C	CHLOROFORM	mg/kg	0.37	<0.00515					<0.00527					<0.00679					<0.00516			
8260C	CHLOROMETHANE	mg/kg		<0.00257					<0.00264					<0.0034					<0.00258			
8260C	2-CHLOROTOLUENE	mg/kg		<0.00103					<0.00105					<0.00136					<0.00103			
8260C	4-CHLOROTOLUENE	mg/kg		<0.00103					<0.00105					<0.00136					<0.00103			
8260C	1,2-DIBROMO-3-CHLOROPROPANE	mg/kg		<0.00515	J0				<0.00527	J0				<0.00679	J0				<0.00516	J0		
8260C	1,2-DIBROMOETHANE	mg/kg		<0.00103					<0.00105					<0.00136					<0.00103			
8260C	DIBROMOMETHANE	mg/kg		<0.00103					<0.00105					<0.00136					<0.00103			
8260C	1,2-DICHLOROBENZENE	mg/kg	1.1	<0.00103					<0.00105					<0.00136					<0.00103			
8260C	1,3-DICHLOROBENZENE	mg/kg	2.4	<0.00103					<0.00105					<0.00136					<0.00103			
8260C	1,4-DICHLOROBENZENE	mg/kg	1.8	<0.00103					<0.00105					<0.00136					<0.00103			
8260C	DICHLORODIFLUOROMETHANE	mg/kg		<0.00515	J4				<0.00527	J4				<0.00679	J4				<0.00516	J4		
8260C	1,1-DICHLOROETHANE	mg/kg	0.27	<0.00103					<0.00105					<0.00136					<0.00103			
8260C	1,2-DICHLOROETHANE	mg/kg	0.02	<0.00103					<0.00105					<0.00136					<0.00103			
8260C	1,1-DICHLOROETHENE	mg/kg	0.33	<0.00103	J4				<0.00105	J4				<0.00136	J4				<0.00103	J4		
8260C	CIS-1,2-DICHLOROETHENE	mg/kg	0.25	<0.00103					<0.00105					<0.00136					<0.00103			

Account: REMCONWPA																					
Lab Sample ID				L919054-09					L919054-10					L919054-11					L919054-12			
Client Sample ID				BP-3000-4000-GRAB					BP-3000-4000-GRAB					BP-4000-5000-GRAB					BP-4000-5000-GRAB			
Date Collected				06/27/2017					06/27/2017					06/27/2017					06/27/2017			
Method	Analyte	Units	NYSDEC DER10 App 5 Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010	Result	Qualifier	Validation result	Validation qualifier	Reason code	Result	Qualifier	Validation result	Validation qualifier	Reason code	Result	Qualifier	Validation result	Validation qualifier	Reason code	Result	Qualifier	Validation result	Validation qualifier
8260C	TRANS-1,2-DICHLOROETHENE	mg/kg	0.19	<0.00103					<0.00105					<0.00136					<0.00103			
8260C	1,2-DICHLOROPROPANE	mg/kg		<0.00103					<0.00105					<0.00136					<0.00103			
8260C	1,1-DICHLOROPROPENE	mg/kg		<0.00103					<0.00105					<0.00136					<0.00103			
8260C	1,3-DICHLOROPROPANE	mg/kg		<0.00103					<0.00105					<0.00136					<0.00103			
8260C	CIS-1,3-DICHLOROPROPENE	mg/kg		<0.00103					<0.00105					<0.00136					<0.00103			
8260C	TRANS-1,3-DICHLOROPROPENE	mg/kg		<0.00103					<0.00105					<0.00136					<0.00103			
8260C	2,2-DICHLOROPROPANE	mg/kg		<0.00103					<0.00105					<0.00136					<0.00103			
8260C	DI-ISOPROPYL ETHER	mg/kg		<0.00103					<0.00105					<0.00136					<0.00103			
8260C	ETHYLBENZENE	mg/kg	1	<0.00103					<0.00105					<0.00136					<0.00103			
8260C	HEXACHLORO-1,3-BUTADIENE	mg/kg		<0.00103					<0.00105					<0.00136					<0.00103			
8260C	ISOPROPYLBENZENE	mg/kg		<0.00103					<0.00105					<0.00136					<0.00103			
8260C	P-ISOPROPYLTOLUENE	mg/kg		<0.00103					<0.00105					<0.00136					<0.00103			
8260C	2-BUTANONE (MEK)	mg/kg	0.12	<0.0103	J0				<0.0105	J0				<0.0136	J0				<0.0103	J0		
8260C	METHYLENE CHLORIDE	mg/kg	0.05	<0.00515					<0.00527					<0.00679					<0.00516			
8260C	4-METHYL-2-PENTANONE (MIBK)	mg/kg		<0.0103	J0				<0.0105	J0				<0.0136	J0				<0.0103	J0		
8260C	METHYL TERT-BUTYL ETHER	mg/kg	0.93	<0.00103					<0.00105					<0.00136					<0.00103			
8260C	NAPHTHALENE	mg/kg	12	<0.00515					<0.00527					<0.00679					<0.00516			
8260C	N-PROPYLBENZENE	mg/kg	3.9	<0.00103					<0.00105					<0.00136					<0.00103			
8260C	STYRENE	mg/kg		<0.00103					<0.00105					<0.00136					<0.00103			
8260C	1,1,1,2-TETRACHLOROETHANE	mg/kg		<0.00103					<0.00105					<0.00136					<0.00103			
8260C	1,1,2,2-TETRACHLOROETHANE	mg/kg		<0.00103					<0.00105					<0.00136					<0.00103			
8260C	1,1,2-TRICHLOROTRIFLUOROETHANE	mg/kg		<0.00103	J4				<0.00105	J4				<0.00136	J4				<0.00103	J4		
8260C	TETRACHLOROETHENE	mg/kg	1.3	<0.00103					<0.00105					<0.00136					<0.00103			
8260C	TOLUENE	mg/kg	0.7	0.0041	J				0.00338	J				0.00433	J				0.00356	J		
8260C	1,2,3-TRICHLOROBENZENE	mg/kg		<0.00103					<0.00105					<0.00136					<0.00103			
8260C	1,2,4-TRICHLOROBENZENE	mg/kg		<0.00103					<0.00105					<0.00136					<0.00103			
8260C	1,1,1-TRICHLOROETHANE	mg/kg	0.68	<0.00103					<0.00105					<0.00136					<0.00103			
8260C	1,1,2-TRICHLOROETHANE	mg/kg		<0.00103					<0.00105					<0.00136					<0.00103			
8260C	TRICHLOROETHENE	mg/kg	0.47	<0.00103					<0.00105					<0.00136					0.000723	J		
8260C	TRICHLOROFLUOROMETHANE	mg/kg		<0.00515	J4				<0.00527	J4				<0.00679	J4				<0.00516	J4		
8260C	1,2,3-TRICHLOROPROPANE	mg/kg		<0.00257					<0.00264					<0.0034					<0.00258			
8260C	1,2,4-TRIMETHYLBENZENE	mg/kg	3.6	0.000834	J				0.000596	J				0.000795	J				0.00056	J		
8260C	1,2,3-TRIMETHYLBENZENE	mg/kg		<0.00103					<0.00105					<0.00136					<0.00103			
8260C	VINYL CHLORIDE	mg/kg	0.02	<0.00103					<0.00105					<0.00136					<0.00103			
8260C	1,3,5-TRIMETHYLBENZENE	mg/kg	8.4	0.000566	J				0.000422	J				0.000663	J				0.000414	J		
8260C	XYLENES, TOTAL	mg/kg	1.6	0.00371					0.00256	J				0.00342	J				0.00276	J		
8260C	TOLUENE-D8	% Rec		102					104					108					104			
8260C	DIBROMOFLUOROMETHANE	% Rec		101					106					105					100			
8260C	4-BROMOFLUOROBENZENE	% Rec		105					99.7					98.5					99.6			
8270D	ACENAPHTHENE	mg/kg	98																			
8270D	ACENAPHTHYLENE	mg/kg	100																			
8270D	ANTHRACENE	mg/kg	100																			
8270D	BENZIDINE	mg/kg																				
8270D	BENZO(A)ANTHRACENE	mg/kg	1																			
8270D	BENZO(B)FLUORANTHENE	mg/kg	1																			
8270D	BENZO(K)FLUORANTHENE	mg/kg	1.7																			
8270D	BENZO(G,H,I)PERYLENE	mg/kg	100																			
8270D	BENZO(A)PYRENE	mg/kg	1																			
8270D	BIS(2-CHLORETHOXY)METHANE	mg/kg																				
8270D	BIS(2-CHLOROETHYL)ETHER	mg/kg																				
8270D	BIS(2-CHLOROISOPROPYL)ETHER	mg/kg																				
8270D	4-BROMOPHENYL-PHENYLETHER	mg/kg																				
8270D	2-CHLORONAPHTHALENE	mg/kg																				
8270D	4-CHLOROPHENYL-PHENYLETHER	mg/kg																				
8270D	CHRYSENE	mg/kg	1																			
8270D	DIBENZ(A,H)ANTHRACENE	mg/kg	0.33																			
8270D	3,3-DICHLOROBENZIDINE	mg/kg																				
8270D	2,4-DINITROTOLUENE	mg/kg																				
8270D	2,6-DINITROTOLUENE	mg/kg																				
8270D	FLUORANTHENE	mg/kg	100																			
8270D	FLUORENE	mg/kg	100																			
8270D	HEXACHLOROBENZENE	mg/kg	1.2																			
8270D	HEXACHLORO-1,3-BUTADIENE	mg/kg																				
8270D	HEXACHLOROCYCLOPENTADIENE	mg/kg																				
8270D	HEXACHLOROETHANE	mg/kg																				
8270D	INDENO(1,2,3-CD)PYRENE	mg/kg	0.5																			
8270D	ISOPHORONE	mg/kg																				
8270D	NAPHTHALENE	mg/kg	12																			
8270D	NITROBENZENE	mg/kg																				
8270D	N-NITROSODIMETHYLAMINE	mg/kg																				
8270D	N-NITROSODIPHENYLAMINE	mg/kg																				
8270D	N-NITROSODI-N-PROPYLAMINE	mg/kg																				
8270D	PHENANTHRENE	mg/kg	100																			
8270D	BENZYLBUTYL PHTHALATE	mg/kg																				
8270D	BIS(2-ETHYLHEXYL)PHTHALATE	mg/kg																				

Account: REMCONWPA																					
Lab Sample ID				L919054-09					L919054-10					L919054-11					L919054-12		
Client Sample ID				BP-3000-4000-GRAB					BP-3000-4000-GRAB					BP-4000-5000-GRAB					BP-4000-5000-GRAB		
Date Collected				06/27/2017					06/27/2017					06/27/2017					06/27/2017		
Method	Analyte	Units	NYSDEC DER10 App 5 Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010	Result	Qualifier	Validation result	Validation qualifier	Reason code	Result	Qualifier	Validation result	Validation qualifier	Reason code	Result	Qualifier	Validation result	Validation qualifier	Reason code	Result	Qualifier	Validation result	Validation qualifier
8270D	DI-N-BUTYL PHTHALATE	mg/kg																			
8270D	DIETHYL PHTHALATE	mg/kg																			
8270D	DIMETHYL PHTHALATE	mg/kg																			
8270D	DI-N-OCTYL PHTHALATE	mg/kg																			
8270D	PYRENE	mg/kg	100																		
8270D	1,2,4-TRICHLOROBENZENE	mg/kg																			
8270D	4-CHLORO-3-METHYLPHENOL	mg/kg																			
8270D	2-CHLOROPHENOL	mg/kg																			
8270D	2,4-DICHLOROPHENOL	mg/kg																			
8270D	2,4-DIMETHYLPHENOL	mg/kg																			
8270D	4,6-DINITRO-2-METHYLPHENOL	mg/kg																			
8270D	2,4-DINITROPHENOL	mg/kg																			
8270D	2-NITROPHENOL	mg/kg																			
8270D	4-NITROPHENOL	mg/kg																			
8270D	PENTACHLOROPHENOL	mg/kg	0.8																		
8270D	PHENOL	mg/kg	0.33																		
8270D	2,4,6-TRICHLOROPHENOL	mg/kg																			
8270D	2-FLUOROPHENOL	% Rec																			
8270D	PHENOL-D5	% Rec																			
8270D	NITROBENZENE-D5	% Rec																			
8270D	2-FLUOROBIPHENYL	% Rec																			
8270D	2,4,6-TRIBROMOPHENOL	% Rec																			
8270D	P-TERPHENYL-D14	% Rec																			
9012B	CYANIDE	mg/kg	27																		
Calc.	CHROMIUM,TRIVALENT	mg/kg	180																		
Qualifiers:B: The same analyte is found in the associated blank.J: The identification of the analyte is acceptat-spike criteria. These failures indicate matrix interference.V: The sample concentration is too high to evaluate accurate spike recoveries.																					

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Memorandum

Date:	11 July 2017
To:	Aron Krasnopoler
From:	Mary Tyler
CC:	J. Caprio
Subject:	**Stage 2A Data Validation - Level II Data Deliverable, ESC Lab Sciences Sample Delivery Group # L919054**

SITE: Former Sperry Remington Site-North

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of twelve solid samples, collected June 27, 2017, as part of the Former Sperry Remington Site-North soil import request. The analyses were performed at ESC Lab Sciences, Mount Juliet, Tennessee. The samples were analyzed for the following tests:

- Volatile Organic Compounds (VOCs) by EPA Methods 5035/8260C
- Semivolatile Organic Compounds (SVOCs) by EPA Methods 3546/8270D
- Organochlorine Pesticides by EPA Methods 3546/8081
- Polychlorinated Biphenyls (PCBs) by EPA Methods 3546/8082
- Metals by EPA Methods 3050B/6010B
- Trivalent Chromium by Calculation
- Mercury by EPA Method 7471A
- Hexavalent Chromium by EPA Methods 3060A/7196A
- Total Cyanide by EPA Method 9012B
- Total Solids by Standard Method 2540G

EXECUTIVE SUMMARY

The samples were handled, prepared, and measured in the same manner under similar prescribed conditions.

Overall, based on this Stage 2A data validation covering the quality control (QC) parameters listed below, the data as qualified are usable for meeting project objectives, with the following exception. The nondetect benzidine results were R qualified as rejected due to no laboratory control

sample/laboratory control sample duplicate (LCS/LCSD) recoveries (0%) and professional and technical judgment.

The remaining qualified data should be used within the limitations of the qualification.

The data were validated based on the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review, January 2017 (EPA 540-R-2017-002), USEPA Contract Laboratory Program National Functional Guidelines for Superfund Inorganic Methods Data Review, January 2017 (EPA 540-R-2017-001), the pertinent methods referenced by the laboratory report and professional and technical judgment.

The following samples were analyzed and validated at Stage 2A level in the data set:

Laboratory ID	Client ID
L919054-01	BP-1000-2000-COMP
L919054-02	BP-2000-3000-COMP
L919054-03	BP-3000-4000-COMP
L919054-04	BP-4000-5000-COMP
L919054-05	BP-1000-2000-GRAB #1
L919054-06	BP-1000-2000-GRAB #2

Laboratory ID	Client ID
L919054-07	BP-2000-3000-GRAB #1
L919054-08	BP-2000-3000-GRAB #2
L919054-09	BP-3000-4000-GRAB #1
L919054-10	BP-3000-4000-GRAB #2
L919054-11	BP-4000-5000-GRAB #1
L919054-12	BP-4000-5000-GRAB #2

The samples were received at the laboratory at 1.3ºC, within the criteria of 0≤6ºC. No sample preservation issues were noted by the laboratory.

The chain of custody (COC) had a note that indicated two trip blanks were sent in with the samples; the trip blank IDs were not listed on the COCs for analysis and trip blank results were not reported. Additional information from the laboratory indicated that trip blanks are sent to the field with the empty sample containers; analysis is performed if indicated on the COC.

The solids data, used to report the samples on a dry weight basis, were not validated.

1.0 VOLATILE ORGANIC COMPOUNDS

The samples were analyzed for VOCs by EPA methods 5035/8260B.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

✓ Overall Assessment
✓ Holding Times

⊗ Method Blank
✓ Matrix Spike/Matrix Spike Duplicate
✓ Laboratory Control Sample
✓ Surrogates
✓ Trip Blank
✓ Field Duplicate
✓ Sensitivity
⊗ Electronic Data Deliverable Review

1.1 Overall Assessment

The VOC data reported in this data set are considered usable for meeting project objectives. The analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this data set is 100%.

The nondetect results for acetone, 1,2-dibromo-3-chloropropane, 2-butanone and 4-methyl-2-pentanone were flagged with J0, indicating that the continuing calibration verification (CCV) percent differences (%D) were high, outside laboratory specified acceptance criteria. Additional information was sent by the laboratory with the specific %D results for the compounds; the biases in the CCV for these compounds were high. Therefore, since these four compounds were not detected in the associated samples, no qualifications were applied to the data.

1.2 Holding Times

The holding time for the VOC analysis of a preserved solid sample is 14 days from sample collection to analysis. The holding times were met for the sample analyses.

1.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch R3230983). VOCs were not detected in the method blank above the method detection limits (MDLs), with the following exception.

1,2,3-Trichlorobenzene was detected at an estimated concentration, greater than the MDL and less than the (RL). Therefore, the estimated 1,2,3-trichlorobenzene concentration in sample BP-1000-2000-GRAB #1 was U qualified as not detected at the RL.

Sample ID	Compound	Laboratory Result (mg/kg)	Laboratory Flag	Validation Result (mg/kg)	Validation Qualifier*	Reason Code**
BP-1000-2000-GRAB #1	1,2,3-Trichlorobenzene	0.000714	B J	0.00103	U	3

mg/kg-milligrams per kilogram
J-laboratory flag indicating that the identification of the analyte is acceptable; the reported value is an estimate
B- laboratory flag indicating that the same analyte is found in the associated blank
* Validation qualifiers are defined in Attachment 1 at the end of this report
**Reason codes are defined in Attachment 2 at the end of this report

1.4 Matrix Spike/Matrix Spike Duplicate (MS/MSD)

MS/MSD pairs were not reported.

1.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS/LCSD pair was reported. The recovery and relative percent difference (RPD) results were within the laboratory specified acceptance criteria, with the following exceptions.

The LCS recovery of trichlorofluoromethane and the LCSD recoveries of dichlorodifluoromethane, 1,1-dichloroethene and 1,1,2-trichlorotrifluoroethane were high, outside laboratory specified acceptance criteria. Since these four compounds were not detected in the associated samples, no qualifications were applied to the data.

1.6 Surrogates

Acceptable surrogate recoveries were reported.

1.7 Trip Blank

A trip blank did not accompany the samples.

1.8 Field Duplicate

Field duplicates were not collected with the sample set.

1.9 Sensitivity

The samples were reported to the MDLs. No elevated non-detect results were reported.

The MDLs were at or below the NYSDEC DER10 App 5 Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010 listed in the electronic data deliverable (EDD). It was noted that no NYSDEC constituent levels were listed in the EDD for the following compounds:

Acrylonitrile
Bromobenzene
Bromodichloromethane
Bromoform
Bromomethane
Chlorodibromomethane
Chloroethane
Chloromethane
2-Chlorotoluene
4- Chlorotoluene
1,2-Dibromo-3-Chloropropane
1,2-Dibromoethane
Dibromomethane
Dichlorodifluoromethane
1,2-Dichloropropane
1,1- Dichloropropene
1,3- Dichloropropane
CIS-1,3- Dichloropropene

Trans-1,3- Dichloropropene
2,2- Dichloropropane
Di-isopropyl Ether
Hexachloro-1,3-butadiene
Isopropylbenzene
p-Isopropyltoluene
4-Methyl-2-Pentanone (MIBK)
Styrene
1,1,1,2-Tetrachloroethane
1,1,2,2- Tetrachloroethane
1,1,2-Trichlorotrifluoroethane
1,2,3-Trichlorobenzene
1,2,4- Trichlorobenzene
1,1,2-Trichloroethane
Trichlorofluoromethane
1,2,3-Trichloropropane
1,2,3-Trimethylbenzene

1.10 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The laboratory report includes both the MDLs and the RLs; however, the EDD listed the non-detect results at the RLs. Additionally, the QC data was not included in the EDD. No other discrepancies were identified between the level II report and the EDD.

2.0 SEMIVOLATILE ORGANIC COMPOUNDS

The samples were analyzed for SVOCs by EPA methods 3546/8270D.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

✓ Overall Assessment
✓ Holding Times
✓ Method Blank
✓ Matrix Spike/Matrix Spike Duplicate
⊗ Laboratory Control Sample
✓ Surrogates
✓ Field Duplicate
✓ Sensitivity
⊗ Electronic Data Deliverable Review

2.1 Overall Assessment

The SVOC data reported in this data set are considered usable for meeting project objectives, with the following exceptions. The nondetect benzidine results were R qualified as rejected due to no LCS/LCSD recoveries (0%) and professional and technical judgment. Therefore, the analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this data set is 98%.

2.2 Holding Times

The holding times for SVOC analysis of solid samples are 14 days from sample collection to extraction and 40 days from extraction to analysis. The holding times were met for the sample analyses.

2.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch R3231515). SVOCs were not detected in the method blank above the MDLs, with the following exceptions.

The following compounds were detected in the method blank, at estimated concentrations greater than the MDLs and less than the RLs. Since these compounds were not detected in the associated samples, no qualifications were applied to the data.

Anthracene
Benzo(a) anthracene
Benzo(k)fluoranthene
Benzo(g,h,i)perylene
Benzo(a)pyrene

Chrysene
Fluoroanthene
Indeno(1,2,3-cd)pyrene
Isophorone
Nitrobenzene

N-Nitrosodiphenylamine	Diethyl Phthalate
Phenanthrene	Dimethyl Phthalate
Bis(2-ethylhexyl)Phthalate	4-Chloro-3-methylphenol

2.4 Matrix Spike/Matrix Spike Duplicate

MS/MSD pairs were not reported.

2.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS/LCSD pair was reported. The recovery and RPD results were within the laboratory specified acceptance criteria, with the following exceptions.

There were no recoveries of benzidine (0%), low and outside laboratory specified acceptance criteria. Therefore, based on professional and technical judgment, the nondetect results of benzidine in the associated samples were R qualified as rejected.

Sample ID	Compound	Laboratory Result (mg/kg)	Laboratory Flag	Validation Result (mg/kg)	Validation Qualifier	Reason Code
BP-1000-2000-COMP	Benzidine	0.0659	U J4	0.0659	R	5
BP-2000-3000-COMP	Benzidine	0.0655	U J4	0.0655	R	5
BP-3000-4000-COMP	Benzidine	0.0657	U J4	0.0657	R	5
BP-4000-5000-COMP	Benzidine	0.0663	U J4	0.0663	R	5

mg/kg-milligrams per kilogram
U-not detected at or above the listed MDL
J4-laboratory flag indicating that the associated batch QC was outside the established quality control range for accuracy

2.6 Surrogates

Acceptable surrogate recoveries were reported.

2.7 Field Duplicate

Field duplicates were not collected with the sample set.

2.8 Sensitivity

The samples were reported to the MDLs. No elevated non-detect results were reported.

The MDLs were at or below the NYSDEC DER10 App 5 Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010 listed in the EDD. It was noted that NYSDEC constituent levels were listed in the EDD for the following compounds; the other SVOCs did not have NYSDEC constituent levels listed.

Acenaphthene
Acenaphthylene
Anthracene
Benzo(a) anthracene
Benzo(k)fluoranthene
Benzo(b)fluoranthene
Benzo(g,h,i)perylene
Benzo(a)pyrene
Chrysene
Dibenz(a,h)anthracene

Fluoranthene
Fluorene
Hexachlorobenzene
Indeno(1,2,3-cd)pyrene
Naphthalene
Phenanthrene
Pyrene
Pentachlorophenol
Phenol

2.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The laboratory report includes both the MDLs and the RLs; however, the EDD listed the non-detect results at the RLs. Additionally, the QC data was not included in the EDD. No other discrepancies were identified between the level II report and the EDD.

3.0 ORGANOCHLORINE PESTICIDES

The samples were analyzed for organochlorine pesticides by EPA Methods 3546/8081.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank

✓ Matrix Spike/Matrix Spike Duplicate
✓ Laboratory Control Sample
✓ Surrogates
✓ Field Duplicate
✓ Sensitivity
⊗ Electronic Data Deliverable Review

3.1 Overall Assessment

The organochlorine pesticide data reported in this data set are considered usable for meeting project objectives. The analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this data set is 100%.

3.2 Holding Times

The holding times for organochlorine pesticide analysis of solid samples are 14 days from sample collection to extraction and 40 days from extraction to analysis. The holding times were met for the sample analyses.

3.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch R3231461). The organochlorine pesticides were not detected in the method blank above the MDLs.

3.4 Matrix Spike/Matrix Spike Duplicate

MS/MSD pairs were not reported.

3.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS/LCSD pair was reported. The recovery and RPD results were within the laboratory specified acceptance criteria.

3.6 Surrogates

Acceptable surrogate recoveries were reported for the sample analyses.

3.7 Field Duplicate

Field duplicates were not collected with the sample set.

3.8 Sensitivity

The samples were reported to the MDLs. No elevated non-detect results were reported.

The MDLs were at or below the NYSDEC DER10 App 5 Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010 listed in the EDD. It was noted that no NYSDEC constituent levels were listed in the EDD for endrin aldehyde, endrin ketone, heptachlor expoxide, methoxychlor, chlordane and toxaphene.

3.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The laboratory report includes both the MDLs and the RLs; however, the EDD listed the non-detect results at the RLs. Additionally, the QC data was not included in the EDD. No other discrepancies were identified between the level II report and the EDD.

4.0 POLYCHLORINATED BIPHENYLS

The samples were analyzed for PCBs by EPA Methods 3546/8082A.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

✓ Overall Assessment
✓ Holding Times
✓ Method Blank
✓ Matrix Spike/Matrix Spike Duplicate
✓ Laboratory Control Sample
✓ Surrogates
✓ Field Duplicate
✓ Sensitivity
⊗ Electronic Data Deliverable Review

4.1 Overall Assessment

The PCB data reported in this data set are considered usable for meeting project objectives. The analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this data set is 100%.

4.2 Holding Times

No holding times are listed in the referenced method for PCB analyses. The samples were extracted and analyzed within 10 days of collection. Therefore, no qualifications were applied to the data, based on professional and technical judgment.

4.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch R3231608). PCBs were not detected in the method blank above the MDLs.

4.4 Matrix Spike/Matrix Spike Duplicate

MS/MSD pairs were not reported.

4.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS/LCSD pair was reported. The recovery and RPD results were within the laboratory specified acceptance criteria.

4.6 Surrogates

Acceptable surrogate recoveries were reported for the sample analyses.

4.7 Field Duplicate

Field duplicates were not collected with the sample set.

4.8 Sensitivity

The samples were reported to the MDLs. No elevated non-detect results were reported.

It was noted that no NYSDEC constituent levels were listed in the EDD for PCBs.

4.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The laboratory report includes both the MDLs and the RLs; however, the EDD listed the non-detect results at the RLs. Additionally, the QC data was not included in the EDD. No other discrepancies were identified between the level II report and the EDD.

5.0 METALS

The samples were analyzed for metals by EPA methods 3050B/6010B (Mercury evaluated separately in Section 6.0, below). The trivalent chromium results were determined by calculation.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

✓ Overall Assessment
✓ Holding Times
✓ Method Blank
⊗ Matrix Spike/Matrix Spike Duplicate
✓ Laboratory Control Sample
✓ Laboratory Duplicate
✓ Field Duplicate
✓ Sensitivity
⊗ Electronic Data Deliverable Review

5.1 Overall Assessment

The metals data reported in this data set are considered usable for meeting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this data set is 100%.

5.2 Holding Times

The holding time for the metals analysis of solid samples is 180 days from sample collection to analysis. The holding times were met for the sample analyses.

5.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch R3230566). The metals were not detected in the method blank above the MDLs, with the following exception.

Zinc was detected at an estimated concentration greater than the MDL and less than the RL. Since the concentrations of zinc in the associated samples were greater than the RL, no qualifications were applied to the data.

5.4 Matrix Spike/Matrix Spike Duplicate

MS/MSD pairs were analyzed at the proper frequency for the number and types of samples analyzed (one pair per batch of 20 samples). One sample set specific MS/MSD pair was reported, using sample BP-4000-5000-COMP. The recovery and RPD results were within the laboratory specified acceptance criteria, with the following exceptions.

One or both of the recoveries of manganese and zinc were low and outside the laboratory specified acceptance criteria. Since the concentration of manganese in sample BP-4000-5000-COMP was greater than four times the spike concentration, no qualifications were applied to the manganese data. The laboratory sent information by email concerning the serial dilution result for zinc, since the laboratory flag on the zinc result for sample BP-4000-5000-COMP indicated that the serial dilution failed the acceptance criteria. The zinc %D for the serial dilution was high and outside the method specified acceptance criteria. Therefore, due to the low MS zinc recovery and the high serial dilution %D, the concentration of zinc in sample BP-4000-5000-COMP was J qualified as estimated.

Sample ID	Compound	Laboratory Result (mg/kg)	Laboratory Flag	Validation Result (mg/kg)	Validation Qualifier	Reason Code
BP-4000-5000-COMP	Zinc	84	J6 O1	84	J	4, 8

mg/kg-milligrams per kilogram
J6- laboratory flag indicating that the sample matrix interfered with the ability to make any accurate determination; spike value is low
O1-laboratory flag indicating that the analyte failed the method required serial dilution test and/or subsequent post-spike criteria; this failure indicate matrix interference

5.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS/LCSD pair was reported. The recovery and RPD results were within the laboratory specified acceptance criteria.

5.6 Laboratory Duplicate

A laboratory duplicate was not reported.

5.7 Field Duplicate

Field duplicates were not collected with the sample set.

5.8 Sensitivity

The samples were reported to the MDLs. No elevated non-detect results were reported.

The MDLs were at or below the NYSDEC DER10 App 5 Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010 listed in the EDD. It was noted that no NYSDEC constituent level was listed in the EDD for chromium.

5.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The laboratory report includes both the MDLs and the RLs, however the EDD listed the non-detect results at the RLs. Additionally, the QC data was not included in the EDD. No other discrepancies were identified between the level II report and the EDD.

6.0 MERCURY

The samples were analyzed for mercury by EPA method 7471A.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

✓ Overall Assessment
✓ Holding Times

- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Field Duplicate
- ✓ Sensitivity
- ⊗ Electronic Data Deliverable Review

6.1 Overall Assessment

The mercury data reported in this data set are considered usable for meeting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this data set is 100%.

6.2 Holding Times

The holding time for the mercury analysis of solid samples is 28 days from sample collection to analysis. The holding times were met for the sample analyses.

6.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch R3230650). Mercury was not detected in the method blank above the MDL.

6.4 Matrix Spike/Matrix Spike Duplicate

A batch MS/MSD pair was reported. Since this was batch QC, there was no impact on the data and no qualifications were applied to the data.

6.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS/LCSD pair was reported. The recovery and RPD results were within the laboratory specified acceptance criteria.

6.6 Laboratory Duplicate

A laboratory duplicate was not reported.

6.7 Field Duplicate

Field duplicates were not collected with the sample set.

6.8 Sensitivity

The samples were reported to the MDL. No elevated non-detect results were reported.

The MDL was at or below the NYSDEC DER10 App 5 Constituent Level for Imported Fill or Soil Restricted Residential Use May 2010 listed in the EDD.

6.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The laboratory report includes both the MDLs and the RLs; however, the EDD listed the non-detect results at the RLs. Additionally, the QC data was not included in the EDD. No other discrepancies were identified between the level II report and the EDD.

7.0 HEXAVALENT CHROMIUM

The samples were analyzed for hexavalent chromium by EPA Methods 3060A/7196A.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

✓ Overall Assessment
✓ Holding Times
✓ Method Blank
✓ Matrix Spike/Matrix Spike Duplicate
✓ Laboratory Control Sample
✓ Laboratory Duplicate
✓ Field Duplicate
✓ Sensitivity
⊗ Electronic Data Deliverable Review

7.1 Overall Assessment

The hexavalent chromium data reported in this data set are considered usable for meeting project objectives. The analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this data set is 100%.

7.2 Holding Times

The holding times for the hexavalent chromium analysis of solid samples are 30 days from sample collection to digestion and 7 days from digestion to analysis. The holding times were met for the sample analyses.

7.3 Method Blanks

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch R3231106). Hexavalent chromium was not detected in the method blank above the MDL.

7.4 Matrix Spike/Matrix Spike Duplicate

MS/MSD pairs were analyzed at the proper frequency for the number and types of samples analyzed (one pair per batch of 20 samples). One sample set specific MS/MSD pair was reported, using sample BP-1000-2000-COMP. The recovery and RPD results were within the laboratory specified acceptance criteria.

7.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS/LCSD pair was reported. The recovery and RPD result was within the laboratory specified acceptance criteria.

7.6 Laboratory Duplicate

A sample set specific laboratory duplicate was reported using sample BP-1000-2000-COMP. The RPD result was within the laboratory specified acceptance criteria.

7.7 Field Duplicate

A field duplicate was not collected with the sample set.

7.8 Sensitivity

The samples were reported to the MDL. No elevated non-detect results were reported.

The MDL was at or below the NYSDEC DER10 App 5 Constituent Level for Imported Fill or Soil Restricted Residential Use May 2010 listed in the EDD.

7.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The laboratory report includes both the MDLs and the RLs; however, the EDD listed the non-detect results at the RLs. Additionally, the QC data was not included in the EDD. No other discrepancies were identified between the level II report and the EDD.

8.0 TOTAL CYANIDE

The samples were analyzed for total cyanide by EPA Methods 9012B.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

8.1 Overall Assessment

The total cyanide data reported in this data set are considered usable for meeting project objectives. The analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this data set is 100%.

8.2 Holding Times

The holding time for the total cyanide analysis of solid samples is 14 days from sample collection to analysis. The holding times were met for the sample analyses.

8.3 Method Blanks

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch R3230775). Cyanide was not detected in the method blank above the MDL.

8.4 Matrix Spike

A batch MS/MSD pair was reported. Since this was batch QC, there was no impact on the data and no qualifications were applied to the data.

8.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS/LCSD pair was reported. The recovery and RPD results were within the laboratory specified acceptance criteria.

8.6 Laboratory Duplicate

Two batch laboratory duplicates were reported. Since these were batch QC, there was no impact on the data and no qualifications were applied to the data.

8.7 Field Duplicate

A field duplicate was not collected with the sample set.

8.8 Sensitivity

The samples were reported to the MDL. No elevated non-detect results were reported.

The MDL was at or below the NYSDEC DER10 App 5 Constituent Level for Imported Fill or Soil Restricted Residential Use May 2010 listed in the EDD.

8.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The

laboratory report includes both the MDLs and the RLs; however, the EDD listed the non-detect results at the RLs. Additionally, the QC data was not included in the EDD. No other discrepancies were identified between the level II report and the EDD.

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* * * * *

ATTACHMENT 1
DATA VALIDATION QUALIFIER DEFINITIONS AND INTERPRETATION KEY
Assigned by Geosyntec's Data Validation Team

DATA QUALIFIER DEFINITIONS

U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

J+ The analyte was positively identified; however, the associated numerical value is likely to be higher that the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.

J- The analyte was positively identified; however, the associated numerical value is likely to be lower that the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ATTACHMENT 2
DATA VALIDATION REASON CODES
Assigned by Geosyntec's Data Validation Team

Valid Value	Description
1	Preservation requirement not met
2	Analysis holding time exceeded
3	Blank contamination (i.e., method, trip, equipment, etc.)
4	Matrix spike/matrix spike duplicate recovery or RPD outside limits
5	LCS recovery outside limits
6	Surrogate recovery outside limits
7	Field Duplicate RPD exceeded
8	Serial dilution percent difference exceeded
9	Calibration criteria not met
10	Linear range exceeded
11	Internal standard criteria not met
12	Lab duplicates RPD exceeded
13	Other

RPD-relative percent difference

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Request to Import/Reuse Fill or Soil

This form is based on the information required by DER-10, Section 5.4(e). Use of this form is not a substitute for reading the applicable Technical Guidance document.

SECTION 1 – SITE BACKGROUND

The allowable site use is: Restricted Residential Use

Have Ecological Resources been identified? yes

Is this soil originating from the site? no

How many cubic yards of soil will be imported/reused? 800-1000

If greater than 1000 cubic yards will be imported, enter volume to be imported:

SECTION 2 – MATERIAL OTHER THAN SOIL

Is the material to be imported gravel, rock or stone? no

Does it contain less than 10%, by weight, material that would pass a size 80 sieve? yes

Is this virgin material from a permitted mine or quarry? yes

Is this material recycled concrete or brick from a DEC registered processing facility? no

SECTION 3 - SAMPLING

Provide a brief description of the number and type of samples collected in the space below:

Seven (7) Discrete Samples were collected and analyzed for VOCs. Two (2) Composite Samples were collected and analyzed for SVOCs, Inorganics, and PCBs/Pesticides. The chain of custody incorrectly shows the same Sample ID for the composite samples and the first two discrete VOC samples. The Analytical Results have been attached to this form.

Two (2) composite samples were collected and analyzed for grain size distribution and moisture-density.

Example Text: 5 discrete samples were collected and analyzed for VOCs. 2 composite samples were collected and analyzed for SVOCs, Inorganics & PCBs/Pesticides.

If the material meets requirements of DER-10 section 5.5 (other material), no chemical testing needed.

SECTION 3 CONT'D - SAMPLING

Provide a brief written summary of the sampling results or attach evaluation tables (compare to DER-10, Appendix 5):

Analytical results are compared to Restricted Residential SCO.

VOC analyses: acetone, benzene, toluene, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene and total xylenes were detected in 7 of 7 samples at levels below Restricted Residential SCOs.

There were no detections of SVOCs, PCBs, or pesticides in the two composite samples.

Metals analyses: arsenic, barium, beryllium, copper, lead manganese, nickel, zinc, and mercury were detected at levels below Restricted Residential SCOs.

Example Text: Arsenic was detected up to 17 ppm in 1 (of 5) samples; the allowable level is 16 ppm.

If Ecological Resources have been identified use the "If Ecological Resources are Present" column in Appendix 5.

SECTION 4 – SOURCE OF FILL

Name of person providing fill and relationship to the source:

Edger Enterprises

Location where fill was obtained:

Brewer's Pit located in Horseheads NY

Identification of any state or local approvals as a fill source:

NYSDEC Facility ID 8-0734-00150

If no approvals are available, provide a brief history of the use of the property that is the fill source:

Provide a list of supporting documentation included with this request:

Geotechnical Data and the Chemical Analysis Reports

The information provided on this form is accurate and complete.

	6-23-17
Signature	Date
Kyle Snyder	
Print Name	
RECON	
Firm	

TABLE 1

Request for Reuse - Summary of Analytical Results
Former Sperry Remington Site - North Portion
Elmira, New York

				Field_ID	Wb4-5, S2A 82417	Wb4-5, S2B 82417	Wb4-5, S2C 82417	Wb5-6, S2A 82417	Wb5-6, S2B 82417	Wb5-6, S2C 82417	Wb5-6, S3A, 82517	Wb5-6, S3C, 82517
				Sample Date	8/24/2017	8/24/2017	8/24/2017	8/24/2017	8/24/2017	8/24/2017	8/25/2017	8/25/2017
				Lab_Report_Number	180-69679-1	180-69679-1	180-69679-1	180-69679-1	180-69679-1	180-69679-1	180-69728-1	180-69728-1
Group	Analyte	Units	EQL	NYSDEC DER10 App 5 Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010								
PCBs	Arochlor 1016	mg/kg	0.0094		-	-	<0.0094U	-	-	<0.0094U	-	<0.01U
	Arochlor 1221	mg/kg	0.0092		-	-	<0.0092U	-	-	<0.0092U	-	<0.0098U
	Arochlor 1232	mg/kg	0.007		-	-	<0.007U	-	-	<0.007U	-	<0.0075U
	Arochlor 1242	mg/kg	0.014		-	-	<0.014U	-	-	<0.014U	-	<0.015U
	Arochlor 1248	mg/kg	0.018		-	-	0.12J	-	-	0.14J	-	2.1J
	Arochlor 1254	mg/kg	0.018		-	-	0.032J	-	-	0.041J	-	0.99J
	Arochlor 1260	mg/kg	0.012		-	-	<0.012U	-	-	<0.012U	-	0.13J
	Arochlor 1268	mg/kg	0.0054		-	-	<0.0054U	-	-	<0.0054U	-	<0.0058U
	Arochlor 1262	mg/kg	0.013		-	-	<0.013U	-	-	<0.013U	-	<0.014U
	Total PCBs	mg/kg		1	-	-	0.152	-	-	0.181	-	3.22
SVOCs	1,4-Dioxane	mg/kg	0.0054	0.1	-	-	<0.0054U	-	-	<0.0054U	-	<0.022U
	2,4,5-trichlorophenol	mg/kg	0.0034		-	-	<0.0034U	-	-	<0.0034U	-	<0.014U
	2,4,6-trichlorophenol	mg/kg	0.0031		-	-	<0.0031U	-	-	<0.0031U	-	<0.013U
	2,4-Dinitrotoluene	mg/kg	0.0047		-	-	<0.0047U	-	-	<0.0047U	-	<0.02U
	2-methylphenol	mg/kg	0.0031	0.33	-	-	<0.0031U	-	-	<0.0032U	-	<0.013U
	4-methylphenol	mg/kg	0.035	0.33	-	-	0.0097J	-	-	0.0091J	-	0.017J
	Acenaphthene	mg/kg	0.0024	98	-	-	<0.0024U	-	-	<0.0024U	-	<0.01U
	Acenaphthylene	mg/kg	0.0024	100	-	-	0.0032J	-	-	<0.0024U	-	0.037
	Anthracene	mg/kg	0.0026	100	-	-	0.0026J	-	-	<0.0026U	-	0.023J
	Benz(a)anthracene	mg/kg	0.0072	1	-	-	0.0082	-	-	0.0058J	-	0.057
	Benzo(a) pyrene	mg/kg	0.0072	1	-	-	0.009	-	-	0.0059J	-	0.061
	Benzo(b)fluoranthene	mg/kg	0.0072	1	-	-	0.013	-	-	0.0089	-	0.082
	Benzo(g,h,i)perylene	mg/kg	0.0072	100	-	-	0.011	-	-	0.0071J	-	0.077
	Benzo(k)fluoranthene	mg/kg	0.0072	1.7	-	-	0.0046J	-	-	0.0032J	-	0.031
	Chrysene	mg/kg	0.0072	1	-	-	0.011	-	-	0.0083	-	0.069
	Dibenz(a,h)anthracene	mg/kg	0.0029	0.33	-	-	<0.0029U	-	-	<0.003U	-	0.017J
	Dibenzofuran	mg/kg	0.0028	59	-	-	<0.0028U	-	-	<0.0029U	-	<0.012U
	Fluoranthene	mg/kg	0.0072	100	-	-	0.015	-	-	0.01	-	0.096
	Fluorene	mg/kg	0.0025	100	-	-	<0.0025U	-	-	<0.0025U	-	<0.011U
	Hexachlorobenzene	mg/kg	0.0029	1.2	-	-	<0.0029U	-	-	<0.0029U	-	<0.012U
	Hexachlorobutadiene	mg/kg	0.0022		-	-	<0.0022U	-	-	<0.0022U	-	<0.0093U
	Hexachloroethane	mg/kg	0.0026		-	-	<0.0026U	-	-	<0.0026U	-	<0.011U
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.0072	0.5	-	-	0.0086	-	-	0.0059J	-	0.061
	Naphthalene	mg/kg	0.0026	12	-	-	<0.0026U	-	-	<0.0026U	-	0.033
	Nitrobenzene	mg/kg	0.0027		-	-	<0.0027U	-	-	<0.0027U	-	<0.011U
	Pentachlorophenol	mg/kg	0.067	0.8	-	-	<0.067U	-	-	<0.067U	-	<0.28U
	Phenanthrene	mg/kg	0.0072	100	-	-	0.0063J	-	-	0.0055J	-	0.048
	Phenol	mg/kg	0.0048	0.33	-	-	<0.0048U	-	-	<0.0048U	-	<0.02U
	Pyrene	mg/kg	0.0072	100	-	-	0.013	-	-	0.0088	-	0.087
	Pyridine	mg/kg	0.0034		-	-	<0.0034U	-	-	<0.0034U	-	<0.014U
Inorganics	Cyanide Total	mg/kg	0.15	27	-	-	<0.16U	-	-	<0.15U	-	0.22J
Metals	Arsenic	mg/kg	1	16	-	-	5.4	-	-	3.9	-	6
	Barium	mg/kg	20	400	-	-	52	-	-	51	-	94
	Beryllium	mg/kg	0.41	47	-	-	0.28J	-	-	0.24J	-	0.41J
	Cadmium	mg/kg	0.51	4.3	-	-	0.16J	-	-	0.19J	-	0.17J
	Chromium (III+VI)	mg/kg	0.51	19	-	-	8.2	-	-	8.8	-	12
	Copper	mg/kg	2.5	270	-	-	19	-	-	21	-	26
	Lead	mg/kg	1	400	-	-	8.3	-	-	24	-	30
	Manganese	mg/kg	1.5	2000	-	-	410	-	-	480	-	400
	Nickel	mg/kg	4.1	130	-	-	16	-	-	18	-	56
	Selenium	mg/kg	0.4	4	-	-	0.86J	-	-	<0.4U	-	<0.47U
	Silver	mg/kg	0.17	8.3	-	-	<0.17U	-	-	<0.17U	-	<0.2U
	Zinc	mg/kg	2	2480	-	-	72	-	-	63	-	70
	Mercury	mg/kg	0.033	0.73	-	-	0.016J	-	-	0.015J	-	0.084

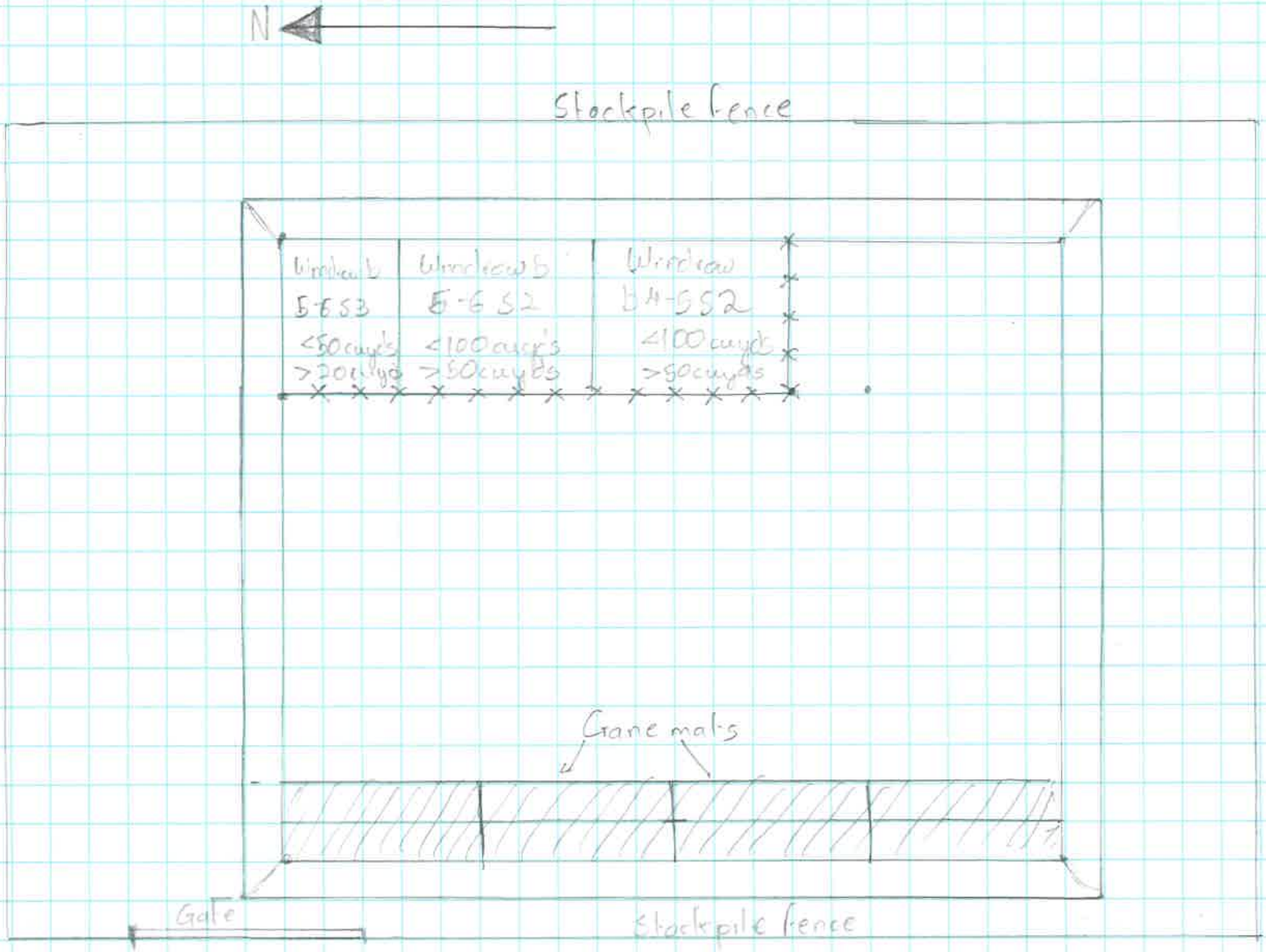
TABLE 1

Request for Reuse - Summary of Analytical Results
Former Sperry Remington Site - North Portion
Elmira, New York

				Field_ID	Wb4-5, S2A 82417	Wb4-5, S2B 82417	Wb4-5, S2C 82417	Wb5-6, S2A 82417	Wb5-6, S2B 82417	Wb5-6, S2C 82417	Wb5-6, S3A, 82517	Wb5-6, S3C, 82517
				Sample Date	8/24/2017	8/24/2017	8/24/2017	8/24/2017	8/24/2017	8/24/2017	8/25/2017	8/25/2017
				Lab_Report_Number	180-69679-1	180-69679-1	180-69679-1	180-69679-1	180-69679-1	180-69679-1	180-69728-1	180-69728-1
Group	Analyte	Units	EQL	NYSDEC DER10 App 5 Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010								
VOCs	1,1,1-trichloroethane	mg/kg	0.0022	0.68	<0.0033U	<0.0023U	-	<0.0033U	<0.0022U	-	<0.0025U	-
	1,1-dichloroethane	mg/kg	0.0016	0.27	<0.0024U	<0.0016U	-	<0.0024U	<0.0016U	-	<0.0018U	-
	1,1-dichloroethene	mg/kg	0.0025	0.33	<0.0038U	<0.0026U	-	<0.0037U	<0.0025U	-	<0.0028U	-
	1,2,4-trimethylbenzene	mg/kg	0.0012	3.6	<0.0018U	<0.0012U	-	<0.0018U	<0.0012U	-	<0.0013U	-
	1,2-dichlorobenzene	mg/kg	0.0035	1.1	<0.0053U	<0.0036U	-	<0.0052U	<0.0035U	-	<0.004U	-
	1,2-dichloroethane	mg/kg	0.0013	0.02	<0.0019U	<0.0013U	-	<0.0019U	<0.0013U	-	<0.0014U	-
	1,3,5-trimethylbenzene	mg/kg	0.0015	8.4	<0.0023U	<0.0015U	-	<0.0022U	<0.0015U	-	<0.0017U	-
	1,3-dichlorobenzene	mg/kg	0.0014	2.4	<0.0021U	<0.0014U	-	<0.0021U	<0.0014U	-	<0.0016U	-
	1,4-dichlorobenzene	mg/kg	0.00089	1.8	<0.0014U	<0.00092U	-	<0.0013U	<0.00089U	-	<0.001U	-
	Methyl Ethyl Ketone	mg/kg	0.0025	0.12	<0.0038U	<0.0026U	-	<0.0038U	<0.0025U	-	<0.0028U	-
	Acetone	mg/kg	0.0028	0.05	<0.0042U	<0.0028U	-	<0.0041U	0.0028J	-	<0.0031U	-
	Benzene	mg/kg	0.0017	0.06	<0.0026U	<0.0018U	-	<0.0025U	<0.0017U	-	<0.0019U	-
	Carbon tetrachloride	mg/kg	0.0029	0.76	<0.0044U	<0.003U	-	<0.0043U	<0.0029U	-	<0.0033U	-
	Chlorobenzene	mg/kg	0.0014	1.1	<0.0021U	<0.0014U	-	<0.002U	<0.0014U	-	<0.0015U	-
	Chloroform	mg/kg	0.0018	0.37	<0.0028U	<0.0019U	-	<0.0027U	<0.0018U	-	<0.0021U	-
	cis-1,2-dichloroethene	mg/kg	0.0014	0.25	<0.0021U	<0.0014U	-	<0.002U	<0.0014U	-	<0.0015U	-
	Dichloromethane	mg/kg	0.002	0.05	<0.0031U	<0.0021U	-	<0.0031U	<0.002U	-	<0.0023U	-
	Ethylbenzene	mg/kg	0.0019	1	<0.0029U	<0.0019U	-	<0.0028U	<0.0019U	-	<0.0021U	-
	Methyl-tert-butyl ether	mg/kg	0.0032	0.93	<0.0049U	<0.0033U	-	<0.0048U	<0.0032U	-	<0.0036U	-
	n-butylbenzene	mg/kg	0.0033	12	<0.005U	<0.0034U	-	<0.0049U	<0.0033U	-	<0.0037U	-
	n-propylbenzene	mg/kg	0.0018	3.9	<0.0028U	<0.0019U	-	<0.0027U	<0.0018U	-	<0.0021U	-
	sec-butylbenzene	mg/kg	0.0021	11	<0.0032U	<0.0022U	-	<0.0032U	<0.0021U	-	<0.0024U	-
	Trichloroethene	mg/kg	0.0013	0.47	<0.002U	<0.0014U	-	<0.002U	<0.0013U	-	<0.0015U	-
	tert-butylbenzene	mg/kg	0.0016	5.9	<0.0024U	<0.0016U	-	<0.0024U	<0.0016U	-	<0.0018U	-
	Tetrachloroethene	mg/kg	0.0017	1.3	<0.0027U	<0.0018U	-	<0.0026U	<0.0017U	-	<0.002U	-
	Toluene	mg/kg	0.0015	0.7	<0.0022U	<0.0015U	-	<0.0022U	<0.0015U	-	<0.0017U	-
	trans-1,2-dichloroethene	mg/kg	0.0022	0.19	<0.0034U	<0.0023U	-	<0.0033U	<0.0022U	-	<0.0025U	-
	Vinyl chloride	mg/kg	0.0032	0.02	<0.0049U	<0.0033U	-	<0.0048U	<0.0032U	-	<0.0036U	-
	Xylene Total	mg/kg	0.0037	1.6	<0.0057U	<0.0039U	-	<0.0056U	<0.0037U	-	<0.0042U	-

DATA QUALIFIER DEFINITIONS

U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J	The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
J+	The analyte was positively identified; however, the associated numerical value is likely to be higher that the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.
J-	The analyte was positively identified; however, the associated numerical value is likely to be lower that the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.
UJ	The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.



Notes
- Electrical trench material added to Windrow 5-653
- Drawing not to scale.

09/12/2017

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

TestAmerica Job ID: 180-69679-1
Client Project/Site: Former Sperry Remington Site - North IRM

For:
Geosyntec Consultants, Inc.
10211 Wincopin Circle
4'th Floor
Columbia, Maryland 21044

Attn: Mr. Aron Krasnopoler

Authorized for release by:
8/30/2017 4:50:52 PM

David Dunlap, Senior Project Manager
(412)963-2432
david.dunlap@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-69679-1

Job ID: 180-69679-1

Laboratory: TestAmerica Pittsburgh

Narrative

Job Narrative
180-69679-1

Receipt
The samples were received on 8/25/2017 7:55 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.1° C.

GC/MS VOA
Method(s) 8260C: The continuing calibration verification (CCV) analyzed in batch 180-221134 was below criteria for the following analytes: 2-butanone and vinyl chloride. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte is considered estimated.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method(s) 8270D LL: The continuing calibration verification (CCV) analyzed in batch 180-221263 was above criteria for the following analytes: 1,4-dioxane, pentachlorophenol, and pyridine. As the CCV was high and these analytes were not detected in the associated samples, the results were reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals
Method(s) 7471B: The matrix spike (MS) recovery of sample Wb4-5, S2C 82417 (180-69679-3) was above the control limits for mercury. The RPD between the spikes and the recoveries of the matrix spike duplicate (MSD) and laboratory control sample (LCS) were within the control limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Definitions/Glossary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-69679-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc. TestAmerica Job ID: 180-69679-1
Project/Site: Former Sperry Remington Site - North IRM

Laboratory: TestAmerica Pittsburgh

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	11182	03-31-18

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
2540G		Solid	Percent Moisture
2540G		Solid	Percent Solids
8270D LL	3541	Solid	1,4-Dioxane

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-69679-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-69679-1	Wb4-5, S2A 82417	Solid	08/24/17 12:50	08/25/17 07:55
180-69679-2	Wb4-5, S2B 82417	Solid	08/24/17 12:55	08/25/17 07:55
180-69679-3	Wb4-5, S2C 82417	Solid	08/24/17 13:00	08/25/17 07:55
180-69679-4	Wb5-6, S2A 82417	Solid	08/24/17 13:10	08/25/17 07:55
180-69679-5	Wb5-6, S2B 82417	Solid	08/24/17 13:15	08/25/17 07:55
180-69679-6	Wb5-6, S2C 82417	Solid	08/24/17 13:20	08/25/17 07:55
180-69679-7	DUP 22	Solid	08/24/17 00:00	08/25/17 07:55
180-69679-8	DUP 23	Solid	08/24/17 00:00	08/25/17 07:55

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-69679-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL PIT
8270D LL	Semivolatile Organic Compounds by GC/MS - Low Level	SW846	TAL PIT
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL PIT
6010C	Metals (ICP)	SW846	TAL PIT
7471B	Mercury (CVAA)	SW846	TAL PIT
2540G	SM 2540G	SM22	TAL PIT
9014	Cyanide	SW846	TAL PIT

Protocol References:

SM22 = SM22

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-69679-1

Client Sample ID: Wb4-5, S2A 82417
Date Collected: 08/24/17 12:50
Date Received: 08/25/17 07:55

Lab Sample ID: 180-69679-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			221223	08/25/17 14:04	CMR	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: Wb4-5, S2A 82417
Date Collected: 08/24/17 12:50
Date Received: 08/25/17 07:55

Lab Sample ID: 180-69679-1
Matrix: Solid
Percent Solids: 92.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.0878 g	5 mL	221143	08/25/17 13:04	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	221134	08/25/17 17:17	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: Wb4-5, S2B 82417
Date Collected: 08/24/17 12:55
Date Received: 08/25/17 07:55

Lab Sample ID: 180-69679-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			221223	08/25/17 14:04	CMR	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: Wb4-5, S2B 82417
Date Collected: 08/24/17 12:55
Date Received: 08/25/17 07:55

Lab Sample ID: 180-69679-2
Matrix: Solid
Percent Solids: 87.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.3643 g	5 mL	221143	08/25/17 13:04	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	221134	08/25/17 16:54	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: Wb4-5, S2C 82417
Date Collected: 08/24/17 13:00
Date Received: 08/25/17 07:55

Lab Sample ID: 180-69679-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			221223	08/25/17 14:04	CMR	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: Wb4-5, S2C 82417
Date Collected: 08/24/17 13:00
Date Received: 08/25/17 07:55

Lab Sample ID: 180-69679-3
Matrix: Solid
Percent Solids: 91.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.3 g	0.5 mL	221247	08/26/17 03:36	BAP	TAL PIT

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-69679-1

Client Sample ID: Wb4-5, S2C 82417

Lab Sample ID: 180-69679-3
Date Collected: 08/24/17 13:00
Matrix: Solid
Date Received: 08/25/17 07:55
Percent Solids: 91.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8270D LL		1	1 mL	1 mL	221263	08/26/17 17:40	VVP	TAL PIT
	Instrument ID: CH732									
Total/NA	Prep	3541			15.3 g	20.0 mL	221249	08/26/17 03:41	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	221273	08/26/17 12:46	DFE	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	221274	08/26/17 12:47	DFE	TAL PIT
Total/NA	Analysis	8082A		1			221316	08/28/17 17:38	JMO	TAL PIT
	Instrument ID: CHGC10									
Total/NA	Prep	3050B			1.05 g	100 mL	221352	08/28/17 10:38	SES	TAL PIT
Total/NA	Analysis	6010C		1			221626	08/30/17 10:13	RJR	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.59 g	100 mL	221438	08/29/17 09:03	ANA	TAL PIT
Total/NA	Analysis	7471B		1			221625	08/30/17 07:17	ANA	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.03 g	50 mL	221468	08/29/17 14:20	JAS	TAL PIT
Total/NA	Analysis	9014		1			221627	08/29/17 17:22	JAS	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: Wb5-6, S2A 82417

Lab Sample ID: 180-69679-4
Date Collected: 08/24/17 13:10
Matrix: Solid
Date Received: 08/25/17 07:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			221223	08/25/17 14:04	CMR	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: Wb5-6, S2A 82417

Lab Sample ID: 180-69679-4
Date Collected: 08/24/17 13:10
Matrix: Solid
Date Received: 08/25/17 07:55
Percent Solids: 69.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.5484 g	5 mL	221143	08/25/17 13:04	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	221134	08/25/17 16:31	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: Wb5-6, S2B 82417

Lab Sample ID: 180-69679-5
Date Collected: 08/24/17 13:15
Matrix: Solid
Date Received: 08/25/17 07:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			221223	08/25/17 14:04	CMR	TAL PIT
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-69679-1

Client Sample ID: Wb5-6, S2B 82417

Lab Sample ID: 180-69679-5
Date Collected: 08/24/17 13:15
Matrix: Solid
Date Received: 08/25/17 07:55
Percent Solids: 94.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.0774 g	5 mL	221143	08/25/17 13:04	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	221134	08/25/17 16:09	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: Wb5-6, S2C 82417

Lab Sample ID: 180-69679-6
Date Collected: 08/24/17 13:20
Matrix: Solid
Date Received: 08/25/17 07:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			221223	08/25/17 14:04	CMR	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: Wb5-6, S2C 82417

Lab Sample ID: 180-69679-6
Date Collected: 08/24/17 13:20
Matrix: Solid
Date Received: 08/25/17 07:55
Percent Solids: 93.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	0.5 mL	221247	08/26/17 03:36	BAP	TAL PIT
Total/NA	Analysis	8270D LL		1	1 mL	1 mL	221263	08/26/17 18:07	VVP	TAL PIT
	Instrument ID: CH732									
Total/NA	Prep	3541			15.1 g	20.0 mL	221249	08/26/17 03:41	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	221273	08/26/17 12:46	DFE	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	221274	08/26/17 12:47	DFE	TAL PIT
Total/NA	Analysis	8082A		1			221316	08/28/17 17:57	JMO	TAL PIT
	Instrument ID: CHGC10									
Total/NA	Prep	3050B			1.05 g	100 mL	221352	08/28/17 10:38	SES	TAL PIT
Total/NA	Analysis	6010C		1			221626	08/30/17 10:28	RJR	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.64 g	100 mL	221438	08/29/17 09:03	ANA	TAL PIT
Total/NA	Analysis	7471B		1			221625	08/30/17 07:23	ANA	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.09 g	50 mL	221468	08/29/17 14:20	JAS	TAL PIT
Total/NA	Analysis	9014		1			221627	08/29/17 17:24	JAS	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: DUP 22

Lab Sample ID: 180-69679-7
Date Collected: 08/24/17 00:00
Matrix: Solid
Date Received: 08/25/17 07:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			221223	08/25/17 14:04	CMR	TAL PIT
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-69679-1

Client Sample ID: DUP 22

Date Collected: 08/24/17 00:00
Date Received: 08/25/17 07:55

Lab Sample ID: 180-69679-7

Matrix: Solid
Percent Solids: 90.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.4 g	0.5 mL	221247	08/26/17 03:36	BAP	TAL PIT
Total/NA	Analysis	8270D LL		1	1 mL	1 mL	221263	08/26/17 18:34	VVP	TAL PIT
	Instrument ID: CH732									
Total/NA	Prep	3541			15.5 g	20.0 mL	221249	08/26/17 03:41	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	221273	08/26/17 12:46	DFE	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	221274	08/26/17 12:47	DFE	TAL PIT
Total/NA	Analysis	8082A		1			221316	08/28/17 18:16	JMO	TAL PIT
	Instrument ID: CHGC10									
Total/NA	Prep	3050B			0.97 g	100 mL	221352	08/28/17 10:38	SES	TAL PIT
Total/NA	Analysis	6010C		1			221626	08/30/17 10:34	RJR	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.63 g	100 mL	221438	08/29/17 09:03	ANA	TAL PIT
Total/NA	Analysis	7471B		1			221625	08/30/17 07:25	ANA	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.10 g	50 mL	221468	08/29/17 14:20	JAS	TAL PIT
Total/NA	Analysis	9014		1			221627	08/29/17 17:25	JAS	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: DUP 23

Date Collected: 08/24/17 00:00
Date Received: 08/25/17 07:55

Lab Sample ID: 180-69679-8

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			221223	08/25/17 14:04	CMR	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: DUP 23

Date Collected: 08/24/17 00:00
Date Received: 08/25/17 07:55

Lab Sample ID: 180-69679-8

Matrix: Solid
Percent Solids: 68.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.1623 g	5 mL	221143	08/25/17 13:04	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	221134	08/25/17 15:46	KLG	TAL PIT
	Instrument ID: CHHP3									

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-69679-1

Analyst References:

Lab: TAL PIT

Batch Type: Cleanup

DFE = David Eppinger

Batch Type: Prep

ANA = Alexis Anderson

BAP = Brian Pino

JAS = Joshua Schmidt

KLG = Kathy Gordon

SES = Samantha Strauser

Batch Type: Analysis

ANA = Alexis Anderson

CMR = Carl Reagle

JAS = Joshua Schmidt

JMO = John Oravec

KLG = Kathy Gordon

RJR = Ron Rosenbaum

VVP = Vincent Piccolino

Client Sample ID: Wb4-5, S2A 82417

Lab Sample ID: 180-69679-1
Date Collected: 08/24/17 12:50
Matrix: Solid
Date Received: 08/25/17 07:55
Percent Solids: 92.3

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.027	0.0042	mg/Kg	☼	08/25/17 13:04	08/25/17 17:17	1
Benzene	ND		0.0066	0.0026	mg/Kg	☼	08/25/17 13:04	08/25/17 17:17	1
2-Butanone (MEK)	ND		0.0066	0.0038	mg/Kg	☼	08/25/17 13:04	08/25/17 17:17	1
Carbon tetrachloride	ND		0.0066	0.0044	mg/Kg	☼	08/25/17 13:04	08/25/17 17:17	1
Chlorobenzene	ND		0.0066	0.0021	mg/Kg	☼	08/25/17 13:04	08/25/17 17:17	1
Chloroform	ND		0.0066	0.0028	mg/Kg	☼	08/25/17 13:04	08/25/17 17:17	1
cis-1,2-Dichloroethene	ND		0.0066	0.0021	mg/Kg	☼	08/25/17 13:04	08/25/17 17:17	1
1,2-Dichlorobenzene	ND		0.0066	0.0053	mg/Kg	☼	08/25/17 13:04	08/25/17 17:17	1
1,3-Dichlorobenzene	ND		0.0066	0.0021	mg/Kg	☼	08/25/17 13:04	08/25/17 17:17	1
1,4-Dichlorobenzene	ND		0.0066	0.0014	mg/Kg	☼	08/25/17 13:04	08/25/17 17:17	1
1,1-Dichloroethane	ND		0.0066	0.0024	mg/Kg	☼	08/25/17 13:04	08/25/17 17:17	1
1,2-Dichloroethane	ND		0.0066	0.0019	mg/Kg	☼	08/25/17 13:04	08/25/17 17:17	1
1,1-Dichloroethene	ND		0.0066	0.0038	mg/Kg	☼	08/25/17 13:04	08/25/17 17:17	1
Ethylbenzene	ND		0.0066	0.0029	mg/Kg	☼	08/25/17 13:04	08/25/17 17:17	1
Methylene Chloride	ND		0.0066	0.0031	mg/Kg	☼	08/25/17 13:04	08/25/17 17:17	1
Methyl tert-butyl ether	ND		0.0066	0.0049	mg/Kg	☼	08/25/17 13:04	08/25/17 17:17	1
n-Butylbenzene	ND		0.0066	0.0050	mg/Kg	☼	08/25/17 13:04	08/25/17 17:17	1
N-Propylbenzene	ND		0.0066	0.0028	mg/Kg	☼	08/25/17 13:04	08/25/17 17:17	1
sec-Butylbenzene	ND		0.0066	0.0032	mg/Kg	☼	08/25/17 13:04	08/25/17 17:17	1
tert-Butylbenzene	ND		0.0066	0.0024	mg/Kg	☼	08/25/17 13:04	08/25/17 17:17	1
Tetrachloroethene	ND		0.0066	0.0027	mg/Kg	☼	08/25/17 13:04	08/25/17 17:17	1
Toluene	ND		0.0066	0.0022	mg/Kg	☼	08/25/17 13:04	08/25/17 17:17	1
trans-1,2-Dichloroethene	ND		0.0066	0.0034	mg/Kg	☼	08/25/17 13:04	08/25/17 17:17	1
1,1,1-Trichloroethane	ND		0.0066	0.0033	mg/Kg	☼	08/25/17 13:04	08/25/17 17:17	1
Trichloroethene	ND		0.0066	0.0020	mg/Kg	☼	08/25/17 13:04	08/25/17 17:17	1
1,2,4-Trimethylbenzene	ND		0.0066	0.0018	mg/Kg	☼	08/25/17 13:04	08/25/17 17:17	1
1,3,5-Trimethylbenzene	ND		0.0066	0.0023	mg/Kg	☼	08/25/17 13:04	08/25/17 17:17	1
Vinyl chloride	ND		0.0066	0.0049	mg/Kg	☼	08/25/17 13:04	08/25/17 17:17	1
Xylenes, Total	ND		0.013	0.0057	mg/Kg	☼	08/25/17 13:04	08/25/17 17:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*73 - 113*	*08/25/17 13:04*	*08/25/17 17:17*	*1*
Dibromofluoromethane (Surr)	*92*		*73 - 113*	*08/25/17 13:04*	*08/25/17 17:17*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*63 - 112*	*08/25/17 13:04*	*08/25/17 17:17*	*1*
Toluene-d8 (Surr)	*109*		*90 - 130*	*08/25/17 13:04*	*08/25/17 17:17*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**7.7**		0.1	0.1	%			08/25/17 14:04	1
Percent Solids	**92.3**		0.1	0.1	%			08/25/17 14:04	1

Client Sample ID: Wb4-5, S2B 82417

Lab Sample ID: 180-69679-2
Date Collected: 08/24/17 12:55
Matrix: Solid
Date Received: 08/25/17 07:55
Percent Solids: 87.3

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.018	0.0028	mg/Kg	☼	08/25/17 13:04	08/25/17 16:54	1
Benzene	ND		0.0045	0.0018	mg/Kg	☼	08/25/17 13:04	08/25/17 16:54	1
2-Butanone (MEK)	ND		0.0045	0.0026	mg/Kg	☼	08/25/17 13:04	08/25/17 16:54	1

Client Sample ID: Wb4-5, S2B 82417

Lab Sample ID: 180-69679-2
Date Collected: 08/24/17 12:55
Matrix: Solid
Date Received: 08/25/17 07:55
Percent Solids: 87.3

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	ND		0.0045	0.0030	mg/Kg	☼	08/25/17 13:04	08/25/17 16:54	1
Chlorobenzene	ND		0.0045	0.0014	mg/Kg	☼	08/25/17 13:04	08/25/17 16:54	1
Chloroform	ND		0.0045	0.0019	mg/Kg	☼	08/25/17 13:04	08/25/17 16:54	1
cis-1,2-Dichloroethene	ND		0.0045	0.0014	mg/Kg	☼	08/25/17 13:04	08/25/17 16:54	1
1,2-Dichlorobenzene	ND		0.0045	0.0036	mg/Kg	☼	08/25/17 13:04	08/25/17 16:54	1
1,3-Dichlorobenzene	ND		0.0045	0.0014	mg/Kg	☼	08/25/17 13:04	08/25/17 16:54	1
1,4-Dichlorobenzene	ND		0.0045	0.00092	mg/Kg	☼	08/25/17 13:04	08/25/17 16:54	1
1,1-Dichloroethane	ND		0.0045	0.0016	mg/Kg	☼	08/25/17 13:04	08/25/17 16:54	1
1,2-Dichloroethane	ND		0.0045	0.0013	mg/Kg	☼	08/25/17 13:04	08/25/17 16:54	1
1,1-Dichloroethene	ND		0.0045	0.0026	mg/Kg	☼	08/25/17 13:04	08/25/17 16:54	1
Ethylbenzene	ND		0.0045	0.0019	mg/Kg	☼	08/25/17 13:04	08/25/17 16:54	1
Methylene Chloride	ND		0.0045	0.0021	mg/Kg	☼	08/25/17 13:04	08/25/17 16:54	1
Methyl tert-butyl ether	ND		0.0045	0.0033	mg/Kg	☼	08/25/17 13:04	08/25/17 16:54	1
n-Butylbenzene	ND		0.0045	0.0034	mg/Kg	☼	08/25/17 13:04	08/25/17 16:54	1
N-Propylbenzene	ND		0.0045	0.0019	mg/Kg	☼	08/25/17 13:04	08/25/17 16:54	1
sec-Butylbenzene	ND		0.0045	0.0022	mg/Kg	☼	08/25/17 13:04	08/25/17 16:54	1
tert-Butylbenzene	ND		0.0045	0.0016	mg/Kg	☼	08/25/17 13:04	08/25/17 16:54	1
Tetrachloroethene	ND		0.0045	0.0018	mg/Kg	☼	08/25/17 13:04	08/25/17 16:54	1
Toluene	ND		0.0045	0.0015	mg/Kg	☼	08/25/17 13:04	08/25/17 16:54	1
trans-1,2-Dichloroethene	ND		0.0045	0.0023	mg/Kg	☼	08/25/17 13:04	08/25/17 16:54	1
1,1,1-Trichloroethane	ND		0.0045	0.0023	mg/Kg	☼	08/25/17 13:04	08/25/17 16:54	1
Trichloroethene	ND		0.0045	0.0014	mg/Kg	☼	08/25/17 13:04	08/25/17 16:54	1
1,2,4-Trimethylbenzene	ND		0.0045	0.0012	mg/Kg	☼	08/25/17 13:04	08/25/17 16:54	1
1,3,5-Trimethylbenzene	ND		0.0045	0.0015	mg/Kg	☼	08/25/17 13:04	08/25/17 16:54	1
Vinyl chloride	ND		0.0045	0.0033	mg/Kg	☼	08/25/17 13:04	08/25/17 16:54	1
Xylenes, Total	ND		0.0090	0.0039	mg/Kg	☼	08/25/17 13:04	08/25/17 16:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*73 - 113*	*08/25/17 13:04*	*08/25/17 16:54*	*1*
Dibromofluoromethane (Surr)	*93*		*73 - 113*	*08/25/17 13:04*	*08/25/17 16:54*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*63 - 112*	*08/25/17 13:04*	*08/25/17 16:54*	*1*
Toluene-d8 (Surr)	*104*		*90 - 130*	*08/25/17 13:04*	*08/25/17 16:54*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**12.7**		0.1	0.1	%			08/25/17 14:04	1
Percent Solids	**87.3**		0.1	0.1	%			08/25/17 14:04	1

Client Sample ID: Wb4-5, S2C 82417

Lab Sample ID: 180-69679-3
Date Collected: 08/24/17 13:00
Matrix: Solid
Date Received: 08/25/17 07:55
Percent Solids: 91.8

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		7.2	2.4	ug/Kg	☼	08/26/17 03:36	08/26/17 17:40	1
Acenaphthylene	**3.2**	**J**	7.2	2.4	ug/Kg	☼	08/26/17 03:36	08/26/17 17:40	1
Anthracene	**2.6**	**J**	7.2	2.6	ug/Kg	☼	08/26/17 03:36	08/26/17 17:40	1
Benzo[a]anthracene	**8.2**		7.2	2.8	ug/Kg	☼	08/26/17 03:36	08/26/17 17:40	1
Benzo[a]pyrene	**9.0**		7.2	2.9	ug/Kg	☼	08/26/17 03:36	08/26/17 17:40	1
Benzo[b]fluoranthene	**13**		7.2	3.1	ug/Kg	☼	08/26/17 03:36	08/26/17 17:40	1

Client Sample ID: Wb4-5, S2C 82417 **Lab Sample ID: 180-69679-3**
Date Collected: 08/24/17 13:00 **Matrix: Solid**
Date Received: 08/25/17 07:55 **Percent Solids: 91.8**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	**11**		7.2	3.1	ug/Kg	☼	08/26/17 03:36	08/26/17 17:40	1
Benzo[k]fluoranthene	**4.6**	**J**	7.2	2.5	ug/Kg	☼	08/26/17 03:36	08/26/17 17:40	1
Chrysene	**11**		7.2	2.8	ug/Kg	☼	08/26/17 03:36	08/26/17 17:40	1
Dibenz(a,h)anthracene	ND		7.2	2.9	ug/Kg	☼	08/26/17 03:36	08/26/17 17:40	1
Dibenzofuran	ND		35	2.8	ug/Kg	☼	08/26/17 03:36	08/26/17 17:40	1
2,4-Dinitrotoluene	ND		35	4.7	ug/Kg	☼	08/26/17 03:36	08/26/17 17:40	1
1,4-Dioxane	ND		71	5.4	ug/Kg	☼	08/26/17 03:36	08/26/17 17:40	1
Fluoranthene	**15**		7.2	2.8	ug/Kg	☼	08/26/17 03:36	08/26/17 17:40	1
Fluorene	ND		7.2	2.5	ug/Kg	☼	08/26/17 03:36	08/26/17 17:40	1
Hexachlorobenzene	ND		7.2	2.9	ug/Kg	☼	08/26/17 03:36	08/26/17 17:40	1
Hexachlorobutadiene	ND		7.2	2.2	ug/Kg	☼	08/26/17 03:36	08/26/17 17:40	1
Hexachloroethane	ND		35	2.6	ug/Kg	☼	08/26/17 03:36	08/26/17 17:40	1
Indeno[1,2,3-cd]pyrene	**8.6**		7.2	2.8	ug/Kg	☼	08/26/17 03:36	08/26/17 17:40	1
2-Methylphenol	ND		35	3.1	ug/Kg	☼	08/26/17 03:36	08/26/17 17:40	1
Methylphenol, 3 & 4	**9.7**	**J**	35	3.2	ug/Kg	☼	08/26/17 03:36	08/26/17 17:40	1
Naphthalene	ND		7.2	2.6	ug/Kg	☼	08/26/17 03:36	08/26/17 17:40	1
Nitrobenzene	ND		71	2.7	ug/Kg	☼	08/26/17 03:36	08/26/17 17:40	1
Pentachlorophenol	ND		180	67	ug/Kg	☼	08/26/17 03:36	08/26/17 17:40	1
Phenanthrene	**6.3**	**J**	7.2	3.0	ug/Kg	☼	08/26/17 03:36	08/26/17 17:40	1
Phenol	ND		35	4.8	ug/Kg	☼	08/26/17 03:36	08/26/17 17:40	1
Pyrene	**13**		7.2	3.2	ug/Kg	☼	08/26/17 03:36	08/26/17 17:40	1
Pyridine	ND		35	3.4	ug/Kg	☼	08/26/17 03:36	08/26/17 17:40	1
2,4,5-Trichlorophenol	ND		35	3.4	ug/Kg	☼	08/26/17 03:36	08/26/17 17:40	1
2,4,6-Trichlorophenol	ND		35	3.1	ug/Kg	☼	08/26/17 03:36	08/26/17 17:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*67*		*34 - 100*	*08/26/17 03:36*	*08/26/17 17:40*	*1*
2-Fluorophenol (Surr)	*64*		*27 - 100*	*08/26/17 03:36*	*08/26/17 17:40*	*1*
Nitrobenzene-d5 (Surr)	*69*		*33 - 100*	*08/26/17 03:36*	*08/26/17 17:40*	*1*
Phenol-d5 (Surr)	*62*		*27 - 100*	*08/26/17 03:36*	*08/26/17 17:40*	*1*
Terphenyl-d14 (Surr)	*69*		*30 - 100*	*08/26/17 03:36*	*08/26/17 17:40*	*1*
2,4,6-Tribromophenol (Surr)	*78*		*20 - 107*	*08/26/17 03:36*	*08/26/17 17:40*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.018	0.0094	mg/Kg	☼	08/26/17 03:41	08/28/17 17:38	1
PCB-1221	ND		0.018	0.0092	mg/Kg	☼	08/26/17 03:41	08/28/17 17:38	1
PCB-1232	ND		0.018	0.0070	mg/Kg	☼	08/26/17 03:41	08/28/17 17:38	1
PCB-1242	ND		0.018	0.014	mg/Kg	☼	08/26/17 03:41	08/28/17 17:38	1
PCB-1248	**0.12**		0.018	0.0085	mg/Kg	☼	08/26/17 03:41	08/28/17 17:38	1
PCB-1254	**0.032**		0.018	0.0078	mg/Kg	☼	08/26/17 03:41	08/28/17 17:38	1
PCB-1260	ND		0.018	0.012	mg/Kg	☼	08/26/17 03:41	08/28/17 17:38	1
PCB-1262	ND		0.018	0.013	mg/Kg	☼	08/26/17 03:41	08/28/17 17:38	1
PCB-1268	ND		0.018	0.0054	mg/Kg	☼	08/26/17 03:41	08/28/17 17:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*71*		*33 - 137*	*08/26/17 03:41*	*08/28/17 17:38*	*1*
DCB Decachlorobiphenyl (Surr)	*68*		*33 - 137*	*08/26/17 03:41*	*08/28/17 17:38*	*1*
Tetrachloro-m-xylene (Surr)	*78*		*44 - 114*	*08/26/17 03:41*	*08/28/17 17:38*	*1*
Tetrachloro-m-xylene (Surr)	*77*		*44 - 114*	*08/26/17 03:41*	*08/28/17 17:38*	*1*

Client Sample ID: Wb4-5, S2C 82417 — Lab Sample ID: 180-69679-3

Date Collected: 08/24/17 13:00 — **Matrix: Solid**
Date Received: 08/25/17 07:55 — **Percent Solids: 91.8**

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.4		1.0	0.46	mg/Kg	☼	08/28/17 10:38	08/30/17 10:13	1
Barium	52		21	5.6	mg/Kg	☼	08/28/17 10:38	08/30/17 10:13	1
Beryllium	0.28	J	0.41	0.11	mg/Kg	☼	08/28/17 10:38	08/30/17 10:13	1
Cadmium	0.16	J	0.52	0.12	mg/Kg	☼	08/28/17 10:38	08/30/17 10:13	1
Chromium	8.2		0.52	0.13	mg/Kg	☼	08/28/17 10:38	08/30/17 10:13	1
Copper	19		2.6	0.80	mg/Kg	☼	08/28/17 10:38	08/30/17 10:13	1
Lead	8.3		1.0	0.34	mg/Kg	☼	08/28/17 10:38	08/30/17 10:13	1
Manganese	410		1.6	0.42	mg/Kg	☼	08/28/17 10:38	08/30/17 10:13	1
Nickel	16		4.1	0.93	mg/Kg	☼	08/28/17 10:38	08/30/17 10:13	1
Selenium	0.86	J	1.0	0.41	mg/Kg	☼	08/28/17 10:38	08/30/17 10:13	1
Silver	ND		0.52	0.17	mg/Kg	☼	08/28/17 10:38	08/30/17 10:13	1
Zinc	72		2.1	1.1	mg/Kg	☼	08/28/17 10:38	08/30/17 10:13	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.016	J F1	0.037	0.0082	mg/Kg	☼	08/29/17 09:03	08/30/17 07:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	8.2		0.1	0.1	%			08/25/17 14:04	1
Percent Solids	91.8		0.1	0.1	%			08/25/17 14:04	1
Cyanide, Total	ND		0.53	0.16	mg/Kg	☼	08/29/17 14:20	08/29/17 17:22	1

Client Sample ID: Wb5-6, S2A 82417 — Lab Sample ID: 180-69679-4

Date Collected: 08/24/17 13:10 — **Matrix: Solid**
Date Received: 08/25/17 07:55 — **Percent Solids: 69.4**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.026	0.0041	mg/Kg	☼	08/25/17 13:04	08/25/17 16:31	1
Benzene	ND		0.0065	0.0025	mg/Kg	☼	08/25/17 13:04	08/25/17 16:31	1
2-Butanone (MEK)	ND		0.0065	0.0038	mg/Kg	☼	08/25/17 13:04	08/25/17 16:31	1
Carbon tetrachloride	ND		0.0065	0.0043	mg/Kg	☼	08/25/17 13:04	08/25/17 16:31	1
Chlorobenzene	ND		0.0065	0.0020	mg/Kg	☼	08/25/17 13:04	08/25/17 16:31	1
Chloroform	ND		0.0065	0.0027	mg/Kg	☼	08/25/17 13:04	08/25/17 16:31	1
cis-1,2-Dichloroethene	ND		0.0065	0.0020	mg/Kg	☼	08/25/17 13:04	08/25/17 16:31	1
1,2-Dichlorobenzene	ND		0.0065	0.0052	mg/Kg	☼	08/25/17 13:04	08/25/17 16:31	1
1,3-Dichlorobenzene	ND		0.0065	0.0021	mg/Kg	☼	08/25/17 13:04	08/25/17 16:31	1
1,4-Dichlorobenzene	ND		0.0065	0.0013	mg/Kg	☼	08/25/17 13:04	08/25/17 16:31	1
1,1-Dichloroethane	ND		0.0065	0.0024	mg/Kg	☼	08/25/17 13:04	08/25/17 16:31	1
1,2-Dichloroethane	ND		0.0065	0.0019	mg/Kg	☼	08/25/17 13:04	08/25/17 16:31	1
1,1-Dichloroethene	ND		0.0065	0.0037	mg/Kg	☼	08/25/17 13:04	08/25/17 16:31	1
Ethylbenzene	ND		0.0065	0.0028	mg/Kg	☼	08/25/17 13:04	08/25/17 16:31	1
Methylene Chloride	ND		0.0065	0.0031	mg/Kg	☼	08/25/17 13:04	08/25/17 16:31	1
Methyl tert-butyl ether	ND		0.0065	0.0048	mg/Kg	☼	08/25/17 13:04	08/25/17 16:31	1
n-Butylbenzene	ND		0.0065	0.0049	mg/Kg	☼	08/25/17 13:04	08/25/17 16:31	1
N-Propylbenzene	ND		0.0065	0.0027	mg/Kg	☼	08/25/17 13:04	08/25/17 16:31	1
sec-Butylbenzene	ND		0.0065	0.0032	mg/Kg	☼	08/25/17 13:04	08/25/17 16:31	1
tert-Butylbenzene	ND		0.0065	0.0024	mg/Kg	☼	08/25/17 13:04	08/25/17 16:31	1
Tetrachloroethene	ND		0.0065	0.0026	mg/Kg	☼	08/25/17 13:04	08/25/17 16:31	1

Client Sample ID: Wb5-6, S2A 82417 — Lab Sample ID: 180-69679-4

Date Collected: 08/24/17 13:10 — **Matrix: Solid**
Date Received: 08/25/17 07:55 — **Percent Solids: 69.4**

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		0.0065	0.0022	mg/Kg	☼	08/25/17 13:04	08/25/17 16:31	1
trans-1,2-Dichloroethene	ND		0.0065	0.0033	mg/Kg	☼	08/25/17 13:04	08/25/17 16:31	1
1,1,1-Trichloroethane	ND		0.0065	0.0033	mg/Kg	☼	08/25/17 13:04	08/25/17 16:31	1
Trichloroethene	ND		0.0065	0.0020	mg/Kg	☼	08/25/17 13:04	08/25/17 16:31	1
1,2,4-Trimethylbenzene	ND		0.0065	0.0018	mg/Kg	☼	08/25/17 13:04	08/25/17 16:31	1
1,3,5-Trimethylbenzene	ND		0.0065	0.0022	mg/Kg	☼	08/25/17 13:04	08/25/17 16:31	1
Vinyl chloride	ND		0.0065	0.0048	mg/Kg	☼	08/25/17 13:04	08/25/17 16:31	1
Xylenes, Total	ND		0.013	0.0056	mg/Kg	☼	08/25/17 13:04	08/25/17 16:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*73 - 113*	*08/25/17 13:04*	*08/25/17 16:31*	*1*
Dibromofluoromethane (Surr)	*91*		*73 - 113*	*08/25/17 13:04*	*08/25/17 16:31*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*63 - 112*	*08/25/17 13:04*	*08/25/17 16:31*	*1*
Toluene-d8 (Surr)	*106*		*90 - 130*	*08/25/17 13:04*	*08/25/17 16:31*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**30.6**		0.1	0.1	%			08/25/17 14:04	1
Percent Solids	**69.4**		0.1	0.1	%			08/25/17 14:04	1

Client Sample ID: Wb5-6, S2B 82417 — Lab Sample ID: 180-69679-5

Date Collected: 08/24/17 13:15 — **Matrix: Solid**
Date Received: 08/25/17 07:55 — **Percent Solids: 94.8**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**0.0028**	**J**	0.017	0.0027	mg/Kg	☼	08/25/17 13:04	08/25/17 16:09	1
Benzene	ND		0.0043	0.0017	mg/Kg	☼	08/25/17 13:04	08/25/17 16:09	1
2-Butanone (MEK)	ND		0.0043	0.0025	mg/Kg	☼	08/25/17 13:04	08/25/17 16:09	1
Carbon tetrachloride	ND		0.0043	0.0029	mg/Kg	☼	08/25/17 13:04	08/25/17 16:09	1
Chlorobenzene	ND		0.0043	0.0014	mg/Kg	☼	08/25/17 13:04	08/25/17 16:09	1
Chloroform	ND		0.0043	0.0018	mg/Kg	☼	08/25/17 13:04	08/25/17 16:09	1
cis-1,2-Dichloroethene	ND		0.0043	0.0014	mg/Kg	☼	08/25/17 13:04	08/25/17 16:09	1
1,2-Dichlorobenzene	ND		0.0043	0.0035	mg/Kg	☼	08/25/17 13:04	08/25/17 16:09	1
1,3-Dichlorobenzene	ND		0.0043	0.0014	mg/Kg	☼	08/25/17 13:04	08/25/17 16:09	1
1,4-Dichlorobenzene	ND		0.0043	0.00089	mg/Kg	☼	08/25/17 13:04	08/25/17 16:09	1
1,1-Dichloroethane	ND		0.0043	0.0016	mg/Kg	☼	08/25/17 13:04	08/25/17 16:09	1
1,2-Dichloroethane	ND		0.0043	0.0013	mg/Kg	☼	08/25/17 13:04	08/25/17 16:09	1
1,1-Dichloroethene	ND		0.0043	0.0025	mg/Kg	☼	08/25/17 13:04	08/25/17 16:09	1
Ethylbenzene	ND		0.0043	0.0019	mg/Kg	☼	08/25/17 13:04	08/25/17 16:09	1
Methylene Chloride	ND		0.0043	0.0020	mg/Kg	☼	08/25/17 13:04	08/25/17 16:09	1
Methyl tert-butyl ether	ND		0.0043	0.0032	mg/Kg	☼	08/25/17 13:04	08/25/17 16:09	1
n-Butylbenzene	ND		0.0043	0.0033	mg/Kg	☼	08/25/17 13:04	08/25/17 16:09	1
N-Propylbenzene	ND		0.0043	0.0018	mg/Kg	☼	08/25/17 13:04	08/25/17 16:09	1
sec-Butylbenzene	ND		0.0043	0.0021	mg/Kg	☼	08/25/17 13:04	08/25/17 16:09	1
tert-Butylbenzene	ND		0.0043	0.0016	mg/Kg	☼	08/25/17 13:04	08/25/17 16:09	1
Tetrachloroethene	ND		0.0043	0.0017	mg/Kg	☼	08/25/17 13:04	08/25/17 16:09	1
Toluene	ND		0.0043	0.0015	mg/Kg	☼	08/25/17 13:04	08/25/17 16:09	1
trans-1,2-Dichloroethene	ND		0.0043	0.0022	mg/Kg	☼	08/25/17 13:04	08/25/17 16:09	1
1,1,1-Trichloroethane	ND		0.0043	0.0022	mg/Kg	☼	08/25/17 13:04	08/25/17 16:09	1

Client Sample ID: Wb5-6, S2B 82417

Lab Sample ID: 180-69679-5
Date Collected: 08/24/17 13:15
Matrix: Solid
Date Received: 08/25/17 07:55
Percent Solids: 94.8

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	ND		0.0043	0.0013	mg/Kg	☼	08/25/17 13:04	08/25/17 16:09	1
1,2,4-Trimethylbenzene	ND		0.0043	0.0012	mg/Kg	☼	08/25/17 13:04	08/25/17 16:09	1
1,3,5-Trimethylbenzene	ND		0.0043	0.0015	mg/Kg	☼	08/25/17 13:04	08/25/17 16:09	1
Vinyl chloride	ND		0.0043	0.0032	mg/Kg	☼	08/25/17 13:04	08/25/17 16:09	1
Xylenes, Total	ND		0.0087	0.0037	mg/Kg	☼	08/25/17 13:04	08/25/17 16:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*73 - 113*	*08/25/17 13:04*	*08/25/17 16:09*	*1*
Dibromofluoromethane (Surr)	*91*		*73 - 113*	*08/25/17 13:04*	*08/25/17 16:09*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*63 - 112*	*08/25/17 13:04*	*08/25/17 16:09*	*1*
Toluene-d8 (Surr)	*104*		*90 - 130*	*08/25/17 13:04*	*08/25/17 16:09*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**5.2**		0.1	0.1	%			08/25/17 14:04	1
Percent Solids	**94.8**		0.1	0.1	%			08/25/17 14:04	1

Client Sample ID: Wb5-6, S2C 82417

Lab Sample ID: 180-69679-6
Date Collected: 08/24/17 13:20
Matrix: Solid
Date Received: 08/25/17 07:55
Percent Solids: 93.5

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		7.2	2.4	ug/Kg	☼	08/26/17 03:36	08/26/17 18:07	1
Acenaphthylene	ND		7.2	2.4	ug/Kg	☼	08/26/17 03:36	08/26/17 18:07	1
Anthracene	ND		7.2	2.6	ug/Kg	☼	08/26/17 03:36	08/26/17 18:07	1
Benzo[a]anthracene	**5.8**	**J**	7.2	2.8	ug/Kg	☼	08/26/17 03:36	08/26/17 18:07	1
Benzo[a]pyrene	**5.9**	**J**	7.2	3.0	ug/Kg	☼	08/26/17 03:36	08/26/17 18:07	1
Benzo[b]fluoranthene	**8.9**		7.2	3.1	ug/Kg	☼	08/26/17 03:36	08/26/17 18:07	1
Benzo[g,h,i]perylene	**7.1**	**J**	7.2	3.1	ug/Kg	☼	08/26/17 03:36	08/26/17 18:07	1
Benzo[k]fluoranthene	**3.2**	**J**	7.2	2.5	ug/Kg	☼	08/26/17 03:36	08/26/17 18:07	1
Chrysene	**8.3**		7.2	2.8	ug/Kg	☼	08/26/17 03:36	08/26/17 18:07	1
Dibenz(a,h)anthracene	ND		7.2	3.0	ug/Kg	☼	08/26/17 03:36	08/26/17 18:07	1
Dibenzofuran	ND		35	2.9	ug/Kg	☼	08/26/17 03:36	08/26/17 18:07	1
2,4-Dinitrotoluene	ND		35	4.7	ug/Kg	☼	08/26/17 03:36	08/26/17 18:07	1
1,4-Dioxane	ND		71	5.4	ug/Kg	☼	08/26/17 03:36	08/26/17 18:07	1
Fluoranthene	**10**		7.2	2.8	ug/Kg	☼	08/26/17 03:36	08/26/17 18:07	1
Fluorene	ND		7.2	2.5	ug/Kg	☼	08/26/17 03:36	08/26/17 18:07	1
Hexachlorobenzene	ND		7.2	2.9	ug/Kg	☼	08/26/17 03:36	08/26/17 18:07	1
Hexachlorobutadiene	ND		7.2	2.2	ug/Kg	☼	08/26/17 03:36	08/26/17 18:07	1
Hexachloroethane	ND		35	2.6	ug/Kg	☼	08/26/17 03:36	08/26/17 18:07	1
Indeno[1,2,3-cd]pyrene	**5.9**	**J**	7.2	2.8	ug/Kg	☼	08/26/17 03:36	08/26/17 18:07	1
2-Methylphenol	ND		35	3.2	ug/Kg	☼	08/26/17 03:36	08/26/17 18:07	1
Methylphenol, 3 & 4	**9.1**	**J**	35	3.2	ug/Kg	☼	08/26/17 03:36	08/26/17 18:07	1
Naphthalene	ND		7.2	2.6	ug/Kg	☼	08/26/17 03:36	08/26/17 18:07	1
Nitrobenzene	ND		71	2.7	ug/Kg	☼	08/26/17 03:36	08/26/17 18:07	1
Pentachlorophenol	ND		180	67	ug/Kg	☼	08/26/17 03:36	08/26/17 18:07	1
Phenanthrene	**5.5**	**J**	7.2	3.0	ug/Kg	☼	08/26/17 03:36	08/26/17 18:07	1
Phenol	ND		35	4.8	ug/Kg	☼	08/26/17 03:36	08/26/17 18:07	1
Pyrene	**8.8**		7.2	3.2	ug/Kg	☼	08/26/17 03:36	08/26/17 18:07	1

Client Sample ID: Wb5-6, S2C 82417 **Lab Sample ID: 180-69679-6**
Date Collected: 08/24/17 13:20 **Matrix: Solid**
Date Received: 08/25/17 07:55 **Percent Solids: 93.5**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyridine	ND		35	3.4	ug/Kg	☼	08/26/17 03:36	08/26/17 18:07	1
2,4,5-Trichlorophenol	ND		35	3.4	ug/Kg	☼	08/26/17 03:36	08/26/17 18:07	1
2,4,6-Trichlorophenol	ND		35	3.1	ug/Kg	☼	08/26/17 03:36	08/26/17 18:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*67*		*34 - 100*	*08/26/17 03:36*	*08/26/17 18:07*	*1*
2-Fluorophenol (Surr)	*66*		*27 - 100*	*08/26/17 03:36*	*08/26/17 18:07*	*1*
Nitrobenzene-d5 (Surr)	*68*		*33 - 100*	*08/26/17 03:36*	*08/26/17 18:07*	*1*
Phenol-d5 (Surr)	*65*		*27 - 100*	*08/26/17 03:36*	*08/26/17 18:07*	*1*
Terphenyl-d14 (Surr)	*67*		*30 - 100*	*08/26/17 03:36*	*08/26/17 18:07*	*1*
2,4,6-Tribromophenol (Surr)	*74*		*20 - 107*	*08/26/17 03:36*	*08/26/17 18:07*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.018	0.0094	mg/Kg	☼	08/26/17 03:41	08/28/17 17:57	1
PCB-1221	ND		0.018	0.0092	mg/Kg	☼	08/26/17 03:41	08/28/17 17:57	1
PCB-1232	ND		0.018	0.0070	mg/Kg	☼	08/26/17 03:41	08/28/17 17:57	1
PCB-1242	ND		0.018	0.014	mg/Kg	☼	08/26/17 03:41	08/28/17 17:57	1
PCB-1248	**0.14**		0.018	0.0085	mg/Kg	☼	08/26/17 03:41	08/28/17 17:57	1
PCB-1254	**0.041**		0.018	0.0078	mg/Kg	☼	08/26/17 03:41	08/28/17 17:57	1
PCB-1260	ND		0.018	0.012	mg/Kg	☼	08/26/17 03:41	08/28/17 17:57	1
PCB-1262	ND		0.018	0.013	mg/Kg	☼	08/26/17 03:41	08/28/17 17:57	1
PCB-1268	ND		0.018	0.0054	mg/Kg	☼	08/26/17 03:41	08/28/17 17:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*67*		*33 - 137*	*08/26/17 03:41*	*08/28/17 17:57*	*1*
DCB Decachlorobiphenyl (Surr)	*65*		*33 - 137*	*08/26/17 03:41*	*08/28/17 17:57*	*1*
Tetrachloro-m-xylene (Surr)	*70*		*44 - 114*	*08/26/17 03:41*	*08/28/17 17:57*	*1*
Tetrachloro-m-xylene (Surr)	*70*		*44 - 114*	*08/26/17 03:41*	*08/28/17 17:57*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**3.9**		1.0	0.45	mg/Kg	☼	08/28/17 10:38	08/30/17 10:28	1
Barium	**51**		20	5.5	mg/Kg	☼	08/28/17 10:38	08/30/17 10:28	1
Beryllium	**0.24**	**J**	0.41	0.11	mg/Kg	☼	08/28/17 10:38	08/30/17 10:28	1
Cadmium	**0.19**	**J**	0.51	0.11	mg/Kg	☼	08/28/17 10:38	08/30/17 10:28	1
Chromium	**8.8**		0.51	0.13	mg/Kg	☼	08/28/17 10:38	08/30/17 10:28	1
Copper	**21**		2.5	0.78	mg/Kg	☼	08/28/17 10:38	08/30/17 10:28	1
Lead	**24**		1.0	0.33	mg/Kg	☼	08/28/17 10:38	08/30/17 10:28	1
Manganese	**480**		1.5	0.41	mg/Kg	☼	08/28/17 10:38	08/30/17 10:28	1
Nickel	**18**		4.1	0.92	mg/Kg	☼	08/28/17 10:38	08/30/17 10:28	1
Selenium	ND		1.0	0.40	mg/Kg	☼	08/28/17 10:38	08/30/17 10:28	1
Silver	ND		0.51	0.17	mg/Kg	☼	08/28/17 10:38	08/30/17 10:28	1
Zinc	**63**		2.0	1.0	mg/Kg	☼	08/28/17 10:38	08/30/17 10:28	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.015**	**J**	0.033	0.0074	mg/Kg	☼	08/29/17 09:03	08/30/17 07:23	1

Client Sample ID: Wb5-6, S2C 82417 — Lab Sample ID: 180-69679-6

Date Collected: 08/24/17 13:20 — **Matrix: Solid**
Date Received: 08/25/17 07:55 — **Percent Solids: 93.5**

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**6.5**		0.1	0.1	%			08/25/17 14:04	1
Percent Solids	**93.5**		0.1	0.1	%			08/25/17 14:04	1
Cyanide, Total	ND		0.49	0.15	mg/Kg	☼	08/29/17 14:20	08/29/17 17:24	1

Client Sample ID: DUP 22 — Lab Sample ID: 180-69679-7

Date Collected: 08/24/17 00:00 — **Matrix: Solid**
Date Received: 08/25/17 07:55 — **Percent Solids: 90.9**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		7.2	2.4	ug/Kg	☼	08/26/17 03:36	08/26/17 18:34	1
Acenaphthylene	**2.9**	**J**	7.2	2.4	ug/Kg	☼	08/26/17 03:36	08/26/17 18:34	1
Anthracene	**2.9**	**J**	7.2	2.6	ug/Kg	☼	08/26/17 03:36	08/26/17 18:34	1
Benzo[a]anthracene	**9.9**		7.2	2.8	ug/Kg	☼	08/26/17 03:36	08/26/17 18:34	1
Benzo[a]pyrene	**11**		7.2	3.0	ug/Kg	☼	08/26/17 03:36	08/26/17 18:34	1
Benzo[b]fluoranthene	**15**		7.2	3.1	ug/Kg	☼	08/26/17 03:36	08/26/17 18:34	1
Benzo[g,h,i]perylene	**13**		7.2	3.1	ug/Kg	☼	08/26/17 03:36	08/26/17 18:34	1
Benzo[k]fluoranthene	**7.0**	**J**	7.2	2.5	ug/Kg	☼	08/26/17 03:36	08/26/17 18:34	1
Chrysene	**13**		7.2	2.8	ug/Kg	☼	08/26/17 03:36	08/26/17 18:34	1
Dibenz(a,h)anthracene	ND		7.2	3.0	ug/Kg	☼	08/26/17 03:36	08/26/17 18:34	1
Dibenzofuran	ND		35	2.9	ug/Kg	☼	08/26/17 03:36	08/26/17 18:34	1
2,4-Dinitrotoluene	ND		35	4.7	ug/Kg	☼	08/26/17 03:36	08/26/17 18:34	1
1,4-Dioxane	ND		71	5.4	ug/Kg	☼	08/26/17 03:36	08/26/17 18:34	1
Fluoranthene	**20**		7.2	2.8	ug/Kg	☼	08/26/17 03:36	08/26/17 18:34	1
Fluorene	ND		7.2	2.5	ug/Kg	☼	08/26/17 03:36	08/26/17 18:34	1
Hexachlorobenzene	ND		7.2	2.9	ug/Kg	☼	08/26/17 03:36	08/26/17 18:34	1
Hexachlorobutadiene	ND		7.2	2.3	ug/Kg	☼	08/26/17 03:36	08/26/17 18:34	1
Hexachloroethane	ND		35	2.6	ug/Kg	☼	08/26/17 03:36	08/26/17 18:34	1
Indeno[1,2,3-cd]pyrene	**11**		7.2	2.8	ug/Kg	☼	08/26/17 03:36	08/26/17 18:34	1
2-Methylphenol	ND		35	3.2	ug/Kg	☼	08/26/17 03:36	08/26/17 18:34	1
Methylphenol, 3 & 4	**6.7**	**J**	35	3.2	ug/Kg	☼	08/26/17 03:36	08/26/17 18:34	1
Naphthalene	ND		7.2	2.6	ug/Kg	☼	08/26/17 03:36	08/26/17 18:34	1
Nitrobenzene	ND		71	2.7	ug/Kg	☼	08/26/17 03:36	08/26/17 18:34	1
Pentachlorophenol	ND		180	68	ug/Kg	☼	08/26/17 03:36	08/26/17 18:34	1
Phenanthrene	**8.5**		7.2	3.0	ug/Kg	☼	08/26/17 03:36	08/26/17 18:34	1
Phenol	ND		35	4.8	ug/Kg	☼	08/26/17 03:36	08/26/17 18:34	1
Pyrene	**16**		7.2	3.2	ug/Kg	☼	08/26/17 03:36	08/26/17 18:34	1
Pyridine	ND		35	3.4	ug/Kg	☼	08/26/17 03:36	08/26/17 18:34	1
2,4,5-Trichlorophenol	ND		35	3.4	ug/Kg	☼	08/26/17 03:36	08/26/17 18:34	1
2,4,6-Trichlorophenol	ND		35	3.1	ug/Kg	☼	08/26/17 03:36	08/26/17 18:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*65*		*34 - 100*	*08/26/17 03:36*	*08/26/17 18:34*	*1*
2-Fluorophenol (Surr)	*67*		*27 - 100*	*08/26/17 03:36*	*08/26/17 18:34*	*1*
Nitrobenzene-d5 (Surr)	*68*		*33 - 100*	*08/26/17 03:36*	*08/26/17 18:34*	*1*
Phenol-d5 (Surr)	*64*		*27 - 100*	*08/26/17 03:36*	*08/26/17 18:34*	*1*
Terphenyl-d14 (Surr)	*62*		*30 - 100*	*08/26/17 03:36*	*08/26/17 18:34*	*1*
2,4,6-Tribromophenol (Surr)	*67*		*20 - 107*	*08/26/17 03:36*	*08/26/17 18:34*	*1*

Client Sample ID: DUP 22

Lab Sample ID: 180-69679-7
Date Collected: 08/24/17 00:00 **Matrix: Solid**
Date Received: 08/25/17 07:55 **Percent Solids: 90.9**

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.018	0.0094	mg/Kg	☼	08/26/17 03:41	08/28/17 18:16	1
PCB-1221	ND		0.018	0.0092	mg/Kg	☼	08/26/17 03:41	08/28/17 18:16	1
PCB-1232	ND		0.018	0.0070	mg/Kg	☼	08/26/17 03:41	08/28/17 18:16	1
PCB-1242	ND		0.018	0.014	mg/Kg	☼	08/26/17 03:41	08/28/17 18:16	1
PCB-1248	**0.11**		0.018	0.0085	mg/Kg	☼	08/26/17 03:41	08/28/17 18:16	1
PCB-1254	**0.031**		0.018	0.0078	mg/Kg	☼	08/26/17 03:41	08/28/17 18:16	1
PCB-1260	ND		0.018	0.012	mg/Kg	☼	08/26/17 03:41	08/28/17 18:16	1
PCB-1262	ND		0.018	0.013	mg/Kg	☼	08/26/17 03:41	08/28/17 18:16	1
PCB-1268	ND		0.018	0.0054	mg/Kg	☼	08/26/17 03:41	08/28/17 18:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*58*		*33 - 137*	*08/26/17 03:41*	*08/28/17 18:16*	*1*
DCB Decachlorobiphenyl (Surr)	*57*		*33 - 137*	*08/26/17 03:41*	*08/28/17 18:16*	*1*
Tetrachloro-m-xylene (Surr)	*70*		*44 - 114*	*08/26/17 03:41*	*08/28/17 18:16*	*1*
Tetrachloro-m-xylene (Surr)	*71*		*44 - 114*	*08/26/17 03:41*	*08/28/17 18:16*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**4.7**		1.1	0.50	mg/Kg	☼	08/28/17 10:38	08/30/17 10:34	1
Barium	**58**		23	6.1	mg/Kg	☼	08/28/17 10:38	08/30/17 10:34	1
Beryllium	**0.28**	**J**	0.45	0.12	mg/Kg	☼	08/28/17 10:38	08/30/17 10:34	1
Cadmium	**0.14**	**J**	0.57	0.13	mg/Kg	☼	08/28/17 10:38	08/30/17 10:34	1
Chromium	**9.8**		0.57	0.15	mg/Kg	☼	08/28/17 10:38	08/30/17 10:34	1
Copper	**21**		2.8	0.87	mg/Kg	☼	08/28/17 10:38	08/30/17 10:34	1
Lead	**9.4**		1.1	0.37	mg/Kg	☼	08/28/17 10:38	08/30/17 10:34	1
Manganese	**380**		1.7	0.46	mg/Kg	☼	08/28/17 10:38	08/30/17 10:34	1
Nickel	**17**		4.5	1.0	mg/Kg	☼	08/28/17 10:38	08/30/17 10:34	1
Selenium	**0.82**	**J**	1.1	0.45	mg/Kg	☼	08/28/17 10:38	08/30/17 10:34	1
Silver	ND		0.57	0.19	mg/Kg	☼	08/28/17 10:38	08/30/17 10:34	1
Zinc	**76**		2.3	1.2	mg/Kg	☼	08/28/17 10:38	08/30/17 10:34	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.017**	**J**	0.035	0.0077	mg/Kg	☼	08/29/17 09:03	08/30/17 07:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.1**		0.1	0.1	%			08/25/17 14:04	1
Percent Solids	**90.9**		0.1	0.1	%			08/25/17 14:04	1
Cyanide, Total	ND		0.50	0.15	mg/Kg	☼	08/29/17 14:20	08/29/17 17:25	1

Client Sample ID: DUP 23

Lab Sample ID: 180-69679-8
Date Collected: 08/24/17 00:00 **Matrix: Solid**
Date Received: 08/25/17 07:55 **Percent Solids: 68.6**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.028	0.0045	mg/Kg	☼	08/25/17 13:04	08/25/17 15:46	1
Benzene	ND		0.0071	0.0028	mg/Kg	☼	08/25/17 13:04	08/25/17 15:46	1
2-Butanone (MEK)	ND		0.0071	0.0041	mg/Kg	☼	08/25/17 13:04	08/25/17 15:46	1
Carbon tetrachloride	ND		0.0071	0.0047	mg/Kg	☼	08/25/17 13:04	08/25/17 15:46	1

Client Sample ID: DUP 23
Date Collected: 08/24/17 00:00
Date Received: 08/25/17 07:55

Lab Sample ID: 180-69679-8
Matrix: Solid
Percent Solids: 68.6

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	ND		0.0071	0.0022	mg/Kg	☼	08/25/17 13:04	08/25/17 15:46	1
Chloroform	ND		0.0071	0.0030	mg/Kg	☼	08/25/17 13:04	08/25/17 15:46	1
cis-1,2-Dichloroethene	ND		0.0071	0.0022	mg/Kg	☼	08/25/17 13:04	08/25/17 15:46	1
1,2-Dichlorobenzene	ND		0.0071	0.0057	mg/Kg	☼	08/25/17 13:04	08/25/17 15:46	1
1,3-Dichlorobenzene	ND		0.0071	0.0023	mg/Kg	☼	08/25/17 13:04	08/25/17 15:46	1
1,4-Dichlorobenzene	ND		0.0071	0.0014	mg/Kg	☼	08/25/17 13:04	08/25/17 15:46	1
1,1-Dichloroethane	ND		0.0071	0.0026	mg/Kg	☼	08/25/17 13:04	08/25/17 15:46	1
1,2-Dichloroethane	ND		0.0071	0.0021	mg/Kg	☼	08/25/17 13:04	08/25/17 15:46	1
1,1-Dichloroethene	ND		0.0071	0.0040	mg/Kg	☼	08/25/17 13:04	08/25/17 15:46	1
Ethylbenzene	ND		0.0071	0.0030	mg/Kg	☼	08/25/17 13:04	08/25/17 15:46	1
Methylene Chloride	ND		0.0071	0.0033	mg/Kg	☼	08/25/17 13:04	08/25/17 15:46	1
Methyl tert-butyl ether	ND		0.0071	0.0052	mg/Kg	☼	08/25/17 13:04	08/25/17 15:46	1
n-Butylbenzene	ND		0.0071	0.0054	mg/Kg	☼	08/25/17 13:04	08/25/17 15:46	1
N-Propylbenzene	ND		0.0071	0.0030	mg/Kg	☼	08/25/17 13:04	08/25/17 15:46	1
sec-Butylbenzene	ND		0.0071	0.0034	mg/Kg	☼	08/25/17 13:04	08/25/17 15:46	1
tert-Butylbenzene	ND		0.0071	0.0026	mg/Kg	☼	08/25/17 13:04	08/25/17 15:46	1
Tetrachloroethene	ND		0.0071	0.0028	mg/Kg	☼	08/25/17 13:04	08/25/17 15:46	1
Toluene	ND		0.0071	0.0024	mg/Kg	☼	08/25/17 13:04	08/25/17 15:46	1
trans-1,2-Dichloroethene	ND		0.0071	0.0036	mg/Kg	☼	08/25/17 13:04	08/25/17 15:46	1
1,1,1-Trichloroethane	ND		0.0071	0.0035	mg/Kg	☼	08/25/17 13:04	08/25/17 15:46	1
Trichloroethene	ND		0.0071	0.0021	mg/Kg	☼	08/25/17 13:04	08/25/17 15:46	1
1,2,4-Trimethylbenzene	ND		0.0071	0.0019	mg/Kg	☼	08/25/17 13:04	08/25/17 15:46	1
1,3,5-Trimethylbenzene	ND		0.0071	0.0024	mg/Kg	☼	08/25/17 13:04	08/25/17 15:46	1
Vinyl chloride	ND		0.0071	0.0052	mg/Kg	☼	08/25/17 13:04	08/25/17 15:46	1
Xylenes, Total	ND		0.014	0.0061	mg/Kg	☼	08/25/17 13:04	08/25/17 15:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*73 - 113*	*08/25/17 13:04*	*08/25/17 15:46*	*1*
Dibromofluoromethane (Surr)	*92*		*73 - 113*	*08/25/17 13:04*	*08/25/17 15:46*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*63 - 112*	*08/25/17 13:04*	*08/25/17 15:46*	*1*
Toluene-d8 (Surr)	*107*		*90 - 130*	*08/25/17 13:04*	*08/25/17 15:46*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**31.4**		0.1	0.1	%			08/25/17 14:04	1
Percent Solids	**68.6**		0.1	0.1	%			08/25/17 14:04	1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 180-221134/8
Matrix: Solid
Analysis Batch: 221134

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.020	0.0032	mg/Kg			08/25/17 09:08	1
Benzene	ND		0.0050	0.0020	mg/Kg			08/25/17 09:08	1
2-Butanone (MEK)	ND		0.0050	0.0029	mg/Kg			08/25/17 09:08	1
Carbon tetrachloride	ND		0.0050	0.0033	mg/Kg			08/25/17 09:08	1
Chlorobenzene	ND		0.0050	0.0016	mg/Kg			08/25/17 09:08	1
Chloroform	ND		0.0050	0.0021	mg/Kg			08/25/17 09:08	1
cis-1,2-Dichloroethene	ND		0.0050	0.0016	mg/Kg			08/25/17 09:08	1
1,2-Dichlorobenzene	ND		0.0050	0.0040	mg/Kg			08/25/17 09:08	1
1,3-Dichlorobenzene	ND		0.0050	0.0016	mg/Kg			08/25/17 09:08	1
1,4-Dichlorobenzene	ND		0.0050	0.0010	mg/Kg			08/25/17 09:08	1
1,1-Dichloroethane	ND		0.0050	0.0018	mg/Kg			08/25/17 09:08	1
1,2-Dichloroethane	ND		0.0050	0.0015	mg/Kg			08/25/17 09:08	1
1,1-Dichloroethene	ND		0.0050	0.0029	mg/Kg			08/25/17 09:08	1
Ethylbenzene	ND		0.0050	0.0022	mg/Kg			08/25/17 09:08	1
Methylene Chloride	ND		0.0050	0.0024	mg/Kg			08/25/17 09:08	1
Methyl tert-butyl ether	ND		0.0050	0.0037	mg/Kg			08/25/17 09:08	1
n-Butylbenzene	ND		0.0050	0.0038	mg/Kg			08/25/17 09:08	1
N-Propylbenzene	ND		0.0050	0.0021	mg/Kg			08/25/17 09:08	1
sec-Butylbenzene	ND		0.0050	0.0024	mg/Kg			08/25/17 09:08	1
tert-Butylbenzene	ND		0.0050	0.0018	mg/Kg			08/25/17 09:08	1
Tetrachloroethene	ND		0.0050	0.0020	mg/Kg			08/25/17 09:08	1
Toluene	ND		0.0050	0.0017	mg/Kg			08/25/17 09:08	1
trans-1,2-Dichloroethene	ND		0.0050	0.0025	mg/Kg			08/25/17 09:08	1
1,1,1-Trichloroethane	ND		0.0050	0.0025	mg/Kg			08/25/17 09:08	1
Trichloroethene	ND		0.0050	0.0015	mg/Kg			08/25/17 09:08	1
1,2,4-Trimethylbenzene	ND		0.0050	0.0013	mg/Kg			08/25/17 09:08	1
1,3,5-Trimethylbenzene	ND		0.0050	0.0017	mg/Kg			08/25/17 09:08	1
Vinyl chloride	ND		0.0050	0.0037	mg/Kg			08/25/17 09:08	1
Xylenes, Total	ND		0.010	0.0043	mg/Kg			08/25/17 09:08	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*73 - 113*		*08/25/17 09:08*	*1*
Dibromofluoromethane (Surr)	*92*		*73 - 113*		*08/25/17 09:08*	*1*
1,2-Dichloroethane-d4 (Surr)	*112*		*63 - 112*		*08/25/17 09:08*	*1*
Toluene-d8 (Surr)	*105*		*90 - 130*		*08/25/17 09:08*	*1*

Lab Sample ID: LCS 180-221134/3
Matrix: Solid
Analysis Batch: 221134

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0400	0.0317		mg/Kg		79	36 - 150
Benzene	0.0400	0.0360		mg/Kg		90	78 - 118
2-Butanone (MEK)	0.0400	0.0301		mg/Kg		75	30 - 150
Carbon tetrachloride	0.0400	0.0459		mg/Kg		115	60 - 137
Chlorobenzene	0.0400	0.0367		mg/Kg		92	78 - 118
Chloroform	0.0400	0.0404		mg/Kg		101	68 - 124
cis-1,2-Dichloroethene	0.0400	0.0363		mg/Kg		91	71 - 120

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 180-221134/3
Matrix: Solid
Analysis Batch: 221134

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichlorobenzene	0.0400	0.0359		mg/Kg		90	78 - 118
1,3-Dichlorobenzene	0.0400	0.0351		mg/Kg		88	78 - 118
1,4-Dichlorobenzene	0.0400	0.0356		mg/Kg		89	78 - 118
1,1-Dichloroethane	0.0400	0.0397		mg/Kg		99	67 - 129
1,2-Dichloroethane	0.0400	0.0440		mg/Kg		110	67 - 123
1,1-Dichloroethene	0.0400	0.0385		mg/Kg		96	59 - 128
Ethylbenzene	0.0400	0.0368		mg/Kg		92	78 - 118
Methylene Chloride	0.0400	0.0382		mg/Kg		95	68 - 120
Methyl tert-butyl ether	0.0400	0.0403		mg/Kg		101	73 - 121
n-Butylbenzene	0.0400	0.0421		mg/Kg		105	71 - 132
N-Propylbenzene	0.0400	0.0378		mg/Kg		94	72 - 126
sec-Butylbenzene	0.0400	0.0403		mg/Kg		101	80 - 126
tert-Butylbenzene	0.0400	0.0386		mg/Kg		96	80 - 122
Tetrachloroethene	0.0400	0.0342		mg/Kg		86	78 - 118
Toluene	0.0400	0.0381		mg/Kg		95	79 - 121
trans-1,2-Dichloroethene	0.0400	0.0395		mg/Kg		99	71 - 123
1,1,1-Trichloroethane	0.0400	0.0477		mg/Kg		119	69 - 135
Trichloroethene	0.0400	0.0339		mg/Kg		85	76 - 120
1,2,4-Trimethylbenzene	0.0400	0.0386		mg/Kg		96	77 - 122
1,3,5-Trimethylbenzene	0.0400	0.0399		mg/Kg		100	78 - 122
Vinyl chloride	0.0400	0.0307		mg/Kg		77	53 - 148
Xylenes, Total	0.0800	0.0723		mg/Kg		90	78 - 118

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*73 - 113*
Dibromofluoromethane (Surr)	*93*		*73 - 113*
1,2-Dichloroethane-d4 (Surr)	*108*		*63 - 112*
Toluene-d8 (Surr)	*96*		*90 - 130*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Lab Sample ID: MB 180-221247/1-A
Matrix: Solid
Analysis Batch: 221263

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 221247

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		6.7	2.2	ug/Kg		08/26/17 03:36	08/26/17 13:10	1
Acenaphthylene	ND		6.7	2.3	ug/Kg		08/26/17 03:36	08/26/17 13:10	1
Anthracene	ND		6.7	2.5	ug/Kg		08/26/17 03:36	08/26/17 13:10	1
Benzo[a]anthracene	ND		6.7	2.6	ug/Kg		08/26/17 03:36	08/26/17 13:10	1
Benzo[a]pyrene	ND		6.7	2.8	ug/Kg		08/26/17 03:36	08/26/17 13:10	1
Benzo[b]fluoranthene	ND		6.7	2.9	ug/Kg		08/26/17 03:36	08/26/17 13:10	1
Benzo[g,h,i]perylene	ND		6.7	2.9	ug/Kg		08/26/17 03:36	08/26/17 13:10	1
Benzo[k]fluoranthene	ND		6.7	2.3	ug/Kg		08/26/17 03:36	08/26/17 13:10	1
Chrysene	ND		6.7	2.6	ug/Kg		08/26/17 03:36	08/26/17 13:10	1
Dibenz(a,h)anthracene	ND		6.7	2.8	ug/Kg		08/26/17 03:36	08/26/17 13:10	1
Dibenzofuran	ND		33	2.7	ug/Kg		08/26/17 03:36	08/26/17 13:10	1
2,4-Dinitrotoluene	ND		33	4.4	ug/Kg		08/26/17 03:36	08/26/17 13:10	1

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: MB 180-221247/1-A
Matrix: Solid
Analysis Batch: 221263

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 221247

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		67	5.0	ug/Kg		08/26/17 03:36	08/26/17 13:10	1
Fluoranthene	ND		6.7	2.6	ug/Kg		08/26/17 03:36	08/26/17 13:10	1
Fluorene	ND		6.7	2.4	ug/Kg		08/26/17 03:36	08/26/17 13:10	1
Hexachlorobenzene	ND		6.7	2.7	ug/Kg		08/26/17 03:36	08/26/17 13:10	1
Hexachlorobutadiene	ND		6.7	2.1	ug/Kg		08/26/17 03:36	08/26/17 13:10	1
Hexachloroethane	ND		33	2.4	ug/Kg		08/26/17 03:36	08/26/17 13:10	1
Indeno[1,2,3-cd]pyrene	ND		6.7	2.6	ug/Kg		08/26/17 03:36	08/26/17 13:10	1
2-Methylphenol	ND		33	2.9	ug/Kg		08/26/17 03:36	08/26/17 13:10	1
Methylphenol, 3 & 4	ND		33	3.0	ug/Kg		08/26/17 03:36	08/26/17 13:10	1
Naphthalene	ND		6.7	2.4	ug/Kg		08/26/17 03:36	08/26/17 13:10	1
Nitrobenzene	ND		67	2.5	ug/Kg		08/26/17 03:36	08/26/17 13:10	1
Pentachlorophenol	ND		170	63	ug/Kg		08/26/17 03:36	08/26/17 13:10	1
Phenanthrene	ND		6.7	2.8	ug/Kg		08/26/17 03:36	08/26/17 13:10	1
Phenol	ND		33	4.5	ug/Kg		08/26/17 03:36	08/26/17 13:10	1
Pyrene	ND		6.7	3.0	ug/Kg		08/26/17 03:36	08/26/17 13:10	1
Pyridine	ND		33	3.2	ug/Kg		08/26/17 03:36	08/26/17 13:10	1
2,4,5-Trichlorophenol	ND		33	3.2	ug/Kg		08/26/17 03:36	08/26/17 13:10	1
2,4,6-Trichlorophenol	ND		33	2.9	ug/Kg		08/26/17 03:36	08/26/17 13:10	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*59*		*34 - 100*	*08/26/17 03:36*	*08/26/17 13:10*	*1*
2-Fluorophenol (Surr)	*67*		*27 - 100*	*08/26/17 03:36*	*08/26/17 13:10*	*1*
Nitrobenzene-d5 (Surr)	*64*		*33 - 100*	*08/26/17 03:36*	*08/26/17 13:10*	*1*
Phenol-d5 (Surr)	*59*		*27 - 100*	*08/26/17 03:36*	*08/26/17 13:10*	*1*
Terphenyl-d14 (Surr)	*58*		*30 - 100*	*08/26/17 03:36*	*08/26/17 13:10*	*1*
2,4,6-Tribromophenol (Surr)	*65*		*20 - 107*	*08/26/17 03:36*	*08/26/17 13:10*	*1*

Lab Sample ID: LCS 180-221247/2-A
Matrix: Solid
Analysis Batch: 221263

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 221247

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	667	393		ug/Kg		59	43 - 100
Acenaphthylene	667	406		ug/Kg		61	43 - 100
Anthracene	667	416		ug/Kg		62	48 - 100
Benzo[a]anthracene	667	432		ug/Kg		65	46 - 100
Benzo[a]pyrene	667	425		ug/Kg		64	46 - 100
Benzo[b]fluoranthene	667	387		ug/Kg		58	42 - 100
Benzo[g,h,i]perylene	667	458		ug/Kg		69	45 - 100
Benzo[k]fluoranthene	667	413		ug/Kg		62	45 - 100
Chrysene	667	438		ug/Kg		66	47 - 100
Dibenz(a,h)anthracene	667	469		ug/Kg		70	47 - 100
Dibenzofuran	667	426		ug/Kg		64	48 - 100
2,4-Dinitrotoluene	667	503		ug/Kg		76	45 - 106
1,4-Dioxane	667	632		ug/Kg		95	40 - 115
Fluoranthene	667	446		ug/Kg		67	47 - 100
Fluorene	667	429		ug/Kg		64	45 - 100
Hexachlorobenzene	667	414		ug/Kg		62	45 - 104

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCS 180-221247/2-A
Matrix: Solid
Analysis Batch: 221263

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 221247

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Hexachlorobutadiene	667	509		ug/Kg		76	41 - 101
Hexachloroethane	667	456		ug/Kg		68	46 - 100
Indeno[1,2,3-cd]pyrene	667	465		ug/Kg		70	46 - 100
2-Methylphenol	667	401		ug/Kg		60	46 - 100
Methylphenol, 3 & 4	667	448		ug/Kg		67	46 - 100
Naphthalene	667	413		ug/Kg		62	46 - 100
Nitrobenzene	667	412		ug/Kg		62	43 - 100
Pentachlorophenol	1330	725		ug/Kg		54	25 - 114
Phenanthrene	667	399		ug/Kg		60	46 - 100
Phenol	667	411		ug/Kg		62	46 - 100
Pyrene	667	403		ug/Kg		60	41 - 100
Pyridine	1330	1350		ug/Kg		101	10 - 141
2,4,5-Trichlorophenol	667	423		ug/Kg		63	43 - 103
2,4,6-Trichlorophenol	667	429		ug/Kg		64	45 - 104

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*58*		*34 - 100*
2-Fluorophenol (Surr)	*74*		*27 - 100*
Nitrobenzene-d5 (Surr)	*64*		*33 - 100*
Phenol-d5 (Surr)	*64*		*27 - 100*
Terphenyl-d14 (Surr)	*63*		*30 - 100*
2,4,6-Tribromophenol (Surr)	*66*		*20 - 107*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 180-221249/1-C
Matrix: Solid
Analysis Batch: 221316

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 221249

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.017	0.0088	mg/Kg		08/26/17 03:41	08/28/17 17:20	1
PCB-1221	ND		0.017	0.0086	mg/Kg		08/26/17 03:41	08/28/17 17:20	1
PCB-1232	ND		0.017	0.0066	mg/Kg		08/26/17 03:41	08/28/17 17:20	1
PCB-1242	ND		0.017	0.013	mg/Kg		08/26/17 03:41	08/28/17 17:20	1
PCB-1248	ND		0.017	0.0080	mg/Kg		08/26/17 03:41	08/28/17 17:20	1
PCB-1254	ND		0.017	0.0073	mg/Kg		08/26/17 03:41	08/28/17 17:20	1
PCB-1260	ND		0.017	0.011	mg/Kg		08/26/17 03:41	08/28/17 17:20	1
PCB-1262	ND		0.017	0.012	mg/Kg		08/26/17 03:41	08/28/17 17:20	1
PCB-1268	ND		0.017	0.0051	mg/Kg		08/26/17 03:41	08/28/17 17:20	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*75*		*33 - 137*	*08/26/17 03:41*	*08/28/17 17:20*	*1*
DCB Decachlorobiphenyl (Surr)	*71*		*33 - 137*	*08/26/17 03:41*	*08/28/17 17:20*	*1*
Tetrachloro-m-xylene (Surr)	*71*		*44 - 114*	*08/26/17 03:41*	*08/28/17 17:20*	*1*
Tetrachloro-m-xylene (Surr)	*73*		*44 - 114*	*08/26/17 03:41*	*08/28/17 17:20*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCS 180-221249/2-C
Matrix: Solid
Analysis Batch: 221316

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 221249

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			1.33	1.06		mg/Kg		80	46 - 122		
PCB-1260			1.33	0.964		mg/Kg		72	51 - 119		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*76*		*33 - 137*
DCB Decachlorobiphenyl (Surr)	*77*		*33 - 137*
Tetrachloro-m-xylene (Surr)	*77*		*44 - 114*
Tetrachloro-m-xylene (Surr)	*77*		*44 - 114*

Lab Sample ID: LCSD 180-221249/3-C
Matrix: Solid
Analysis Batch: 221316

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 221249

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016			1.33	1.18		mg/Kg		88	46 - 122	10	23
PCB-1260			1.33	1.03		mg/Kg		77	51 - 119	7	17

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*80*		*33 - 137*
DCB Decachlorobiphenyl (Surr)	*80*		*33 - 137*
Tetrachloro-m-xylene (Surr)	*81*		*44 - 114*
Tetrachloro-m-xylene (Surr)	*79*		*44 - 114*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 180-221352/1-A
Matrix: Solid
Analysis Batch: 221626

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 221352

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		1.0	0.44	mg/Kg		08/28/17 10:38	08/30/17 10:03	1
Barium	ND		20	5.4	mg/Kg		08/28/17 10:38	08/30/17 10:03	1
Beryllium	ND		0.40	0.10	mg/Kg		08/28/17 10:38	08/30/17 10:03	1
Cadmium	ND		0.50	0.11	mg/Kg		08/28/17 10:38	08/30/17 10:03	1
Chromium	ND		0.50	0.13	mg/Kg		08/28/17 10:38	08/30/17 10:03	1
Copper	ND		2.5	0.77	mg/Kg		08/28/17 10:38	08/30/17 10:03	1
Lead	ND		1.0	0.33	mg/Kg		08/28/17 10:38	08/30/17 10:03	1
Manganese	ND		1.5	0.41	mg/Kg		08/28/17 10:38	08/30/17 10:03	1
Nickel	ND		4.0	0.90	mg/Kg		08/28/17 10:38	08/30/17 10:03	1
Selenium	ND		1.0	0.40	mg/Kg		08/28/17 10:38	08/30/17 10:03	1
Silver	ND		0.50	0.17	mg/Kg		08/28/17 10:38	08/30/17 10:03	1
Zinc	ND		2.0	1.0	mg/Kg		08/28/17 10:38	08/30/17 10:03	1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCS 180-221352/2-A
Matrix: Solid
Analysis Batch: 221626

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 221352

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	50.0	50.9		mg/Kg		102	80 - 120
Barium	200	205		mg/Kg		102	80 - 120
Beryllium	5.00	5.22		mg/Kg		104	80 - 120
Cadmium	5.00	5.12		mg/Kg		102	80 - 120
Chromium	20.0	20.2		mg/Kg		101	80 - 120
Copper	25.0	25.5		mg/Kg		102	80 - 120
Lead	50.0	50.2		mg/Kg		100	80 - 120
Manganese	50.0	50.6		mg/Kg		101	80 - 120
Nickel	50.0	51.2		mg/Kg		102	80 - 120
Selenium	50.0	51.0		mg/Kg		102	80 - 120
Silver	5.00	5.08		mg/Kg		102	80 - 120
Zinc	50.0	51.6		mg/Kg		103	80 - 120

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 180-221438/1-A
Matrix: Solid
Analysis Batch: 221625

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 221438

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.033	0.0074	mg/Kg		08/29/17 09:03	08/30/17 07:13	1

Lab Sample ID: LCS 180-221438/2-A
Matrix: Solid
Analysis Batch: 221625

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 221438

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.417	0.476		mg/Kg		114	80 - 120

Lab Sample ID: 180-69679-3 MS
Matrix: Solid
Analysis Batch: 221625

Client Sample ID: Wb4-5, S2C 82417
Prep Type: Total/NA
Prep Batch: 221438

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.016	J F1	0.163	0.228	F1	mg/Kg	☼	131	80 - 120

Lab Sample ID: 180-69679-3 MSD
Matrix: Solid
Analysis Batch: 221625

Client Sample ID: Wb4-5, S2C 82417
Prep Type: Total/NA
Prep Batch: 221438

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.016	J F1	0.191	0.190		mg/Kg	☼	91	80 - 120	18	20

Method: 2540G - SM 2540G

Lab Sample ID: 180-69679-8 DU
Matrix: Solid
Analysis Batch: 221223

Client Sample ID: DUP 23
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	31.4		29.7		%		6	20
Percent Solids	68.6		70.3		%		3	20

Method: 9014 - Cyanide

Lab Sample ID: MB 180-221468/4-A
Matrix: Solid
Analysis Batch: 221627

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 221468

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.50	0.15	mg/Kg		08/29/17 14:20	08/29/17 17:06	1

Lab Sample ID: HLCS 180-221468/2-A
Matrix: Solid
Analysis Batch: 221627

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 221468

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.250	0.246		mg/Kg		98	90 - 110

Lab Sample ID: LCS 180-221468/3-A
Matrix: Solid
Analysis Batch: 221627

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 221468

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	151	136		mg/Kg		90	38 - 162

Lab Sample ID: LLCS 180-221468/1-A
Matrix: Solid
Analysis Batch: 221627

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 221468

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.0500	0.0483		mg/Kg		97	90 - 110

GC/MS VOA

Analysis Batch: 221134

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-69679-1	Wb4-5, S2A 82417	Total/NA	Solid	8260C	221143
180-69679-2	Wb4-5, S2B 82417	Total/NA	Solid	8260C	221143
180-69679-4	Wb5-6, S2A 82417	Total/NA	Solid	8260C	221143
180-69679-5	Wb5-6, S2B 82417	Total/NA	Solid	8260C	221143
180-69679-8	DUP 23	Total/NA	Solid	8260C	221143
MB 180-221134/8	Method Blank	Total/NA	Solid	8260C	
LCS 180-221134/3	Lab Control Sample	Total/NA	Solid	8260C	

Prep Batch: 221143

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-69679-1	Wb4-5, S2A 82417	Total/NA	Solid	5035	
180-69679-2	Wb4-5, S2B 82417	Total/NA	Solid	5035	
180-69679-4	Wb5-6, S2A 82417	Total/NA	Solid	5035	
180-69679-5	Wb5-6, S2B 82417	Total/NA	Solid	5035	
180-69679-8	DUP 23	Total/NA	Solid	5035	

GC/MS Semi VOA

Prep Batch: 221247

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-69679-3	Wb4-5, S2C 82417	Total/NA	Solid	3541	
180-69679-6	Wb5-6, S2C 82417	Total/NA	Solid	3541	
180-69679-7	DUP 22	Total/NA	Solid	3541	
MB 180-221247/1-A	Method Blank	Total/NA	Solid	3541	
LCS 180-221247/2-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 221263

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-69679-3	Wb4-5, S2C 82417	Total/NA	Solid	8270D LL	221247
180-69679-6	Wb5-6, S2C 82417	Total/NA	Solid	8270D LL	221247
180-69679-7	DUP 22	Total/NA	Solid	8270D LL	221247
MB 180-221247/1-A	Method Blank	Total/NA	Solid	8270D LL	221247
LCS 180-221247/2-A	Lab Control Sample	Total/NA	Solid	8270D LL	221247

GC Semi VOA

Prep Batch: 221249

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-69679-3	Wb4-5, S2C 82417	Total/NA	Solid	3541	
180-69679-6	Wb5-6, S2C 82417	Total/NA	Solid	3541	
180-69679-7	DUP 22	Total/NA	Solid	3541	
MB 180-221249/1-C	Method Blank	Total/NA	Solid	3541	
LCS 180-221249/2-C	Lab Control Sample	Total/NA	Solid	3541	
LCSD 180-221249/3-C	Lab Control Sample Dup	Total/NA	Solid	3541	

Cleanup Batch: 221273

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-69679-3	Wb4-5, S2C 82417	Total/NA	Solid	3665A	221249
180-69679-6	Wb5-6, S2C 82417	Total/NA	Solid	3665A	221249
180-69679-7	DUP 22	Total/NA	Solid	3665A	221249

GC Semi VOA (Continued)

Cleanup Batch: 221273 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 180-221249/1-C	Method Blank	Total/NA	Solid	3665A	221249
LCS 180-221249/2-C	Lab Control Sample	Total/NA	Solid	3665A	221249
LCSD 180-221249/3-C	Lab Control Sample Dup	Total/NA	Solid	3665A	221249

Cleanup Batch: 221274

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-69679-3	Wb4-5, S2C 82417	Total/NA	Solid	3660B	221273
180-69679-6	Wb5-6, S2C 82417	Total/NA	Solid	3660B	221273
180-69679-7	DUP 22	Total/NA	Solid	3660B	221273
MB 180-221249/1-C	Method Blank	Total/NA	Solid	3660B	221273
LCS 180-221249/2-C	Lab Control Sample	Total/NA	Solid	3660B	221273
LCSD 180-221249/3-C	Lab Control Sample Dup	Total/NA	Solid	3660B	221273

Analysis Batch: 221316

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-69679-3	Wb4-5, S2C 82417	Total/NA	Solid	8082A	221274
180-69679-6	Wb5-6, S2C 82417	Total/NA	Solid	8082A	221274
180-69679-7	DUP 22	Total/NA	Solid	8082A	221274
MB 180-221249/1-C	Method Blank	Total/NA	Solid	8082A	221274
LCS 180-221249/2-C	Lab Control Sample	Total/NA	Solid	8082A	221274
LCSD 180-221249/3-C	Lab Control Sample Dup	Total/NA	Solid	8082A	221274

Metals

Prep Batch: 221352

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-69679-3	Wb4-5, S2C 82417	Total/NA	Solid	3050B	
180-69679-6	Wb5-6, S2C 82417	Total/NA	Solid	3050B	
180-69679-7	DUP 22	Total/NA	Solid	3050B	
MB 180-221352/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 180-221352/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Prep Batch: 221438

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-69679-3	Wb4-5, S2C 82417	Total/NA	Solid	7471B	
180-69679-6	Wb5-6, S2C 82417	Total/NA	Solid	7471B	
180-69679-7	DUP 22	Total/NA	Solid	7471B	
MB 180-221438/1-A	Method Blank	Total/NA	Solid	7471B	
LCS 180-221438/2-A	Lab Control Sample	Total/NA	Solid	7471B	
180-69679-3 MS	Wb4-5, S2C 82417	Total/NA	Solid	7471B	
180-69679-3 MSD	Wb4-5, S2C 82417	Total/NA	Solid	7471B	

Analysis Batch: 221625

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-69679-3	Wb4-5, S2C 82417	Total/NA	Solid	7471B	221438
180-69679-6	Wb5-6, S2C 82417	Total/NA	Solid	7471B	221438
180-69679-7	DUP 22	Total/NA	Solid	7471B	221438
MB 180-221438/1-A	Method Blank	Total/NA	Solid	7471B	221438
LCS 180-221438/2-A	Lab Control Sample	Total/NA	Solid	7471B	221438
180-69679-3 MS	Wb4-5, S2C 82417	Total/NA	Solid	7471B	221438

Metals (Continued)

Analysis Batch: 221625 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-69679-3 MSD	Wb4-5, S2C 82417	Total/NA	Solid	7471B	221438

Analysis Batch: 221626

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-69679-3	Wb4-5, S2C 82417	Total/NA	Solid	6010C	221352
180-69679-6	Wb5-6, S2C 82417	Total/NA	Solid	6010C	221352
180-69679-7	DUP 22	Total/NA	Solid	6010C	221352
MB 180-221352/1-A	Method Blank	Total/NA	Solid	6010C	221352
LCS 180-221352/2-A	Lab Control Sample	Total/NA	Solid	6010C	221352

General Chemistry

Analysis Batch: 221223

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-69679-1	Wb4-5, S2A 82417	Total/NA	Solid	2540G	
180-69679-2	Wb4-5, S2B 82417	Total/NA	Solid	2540G	
180-69679-3	Wb4-5, S2C 82417	Total/NA	Solid	2540G	
180-69679-4	Wb5-6, S2A 82417	Total/NA	Solid	2540G	
180-69679-5	Wb5-6, S2B 82417	Total/NA	Solid	2540G	
180-69679-6	Wb5-6, S2C 82417	Total/NA	Solid	2540G	
180-69679-7	DUP 22	Total/NA	Solid	2540G	
180-69679-8	DUP 23	Total/NA	Solid	2540G	
180-69679-8 DU	DUP 23	Total/NA	Solid	2540G	

Prep Batch: 221468

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-69679-3	Wb4-5, S2C 82417	Total/NA	Solid	9010C	
180-69679-6	Wb5-6, S2C 82417	Total/NA	Solid	9010C	
180-69679-7	DUP 22	Total/NA	Solid	9010C	
MB 180-221468/4-A	Method Blank	Total/NA	Solid	9010C	
HLCS 180-221468/2-A	Lab Control Sample	Total/NA	Solid	9010C	
LCS 180-221468/3-A	Lab Control Sample	Total/NA	Solid	9010C	
LLCS 180-221468/1-A	Lab Control Sample	Total/NA	Solid	9010C	

Analysis Batch: 221627

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-69679-3	Wb4-5, S2C 82417	Total/NA	Solid	9014	221468
180-69679-6	Wb5-6, S2C 82417	Total/NA	Solid	9014	221468
180-69679-7	DUP 22	Total/NA	Solid	9014	221468
MB 180-221468/4-A	Method Blank	Total/NA	Solid	9014	221468
HLCS 180-221468/2-A	Lab Control Sample	Total/NA	Solid	9014	221468
LCS 180-221468/3-A	Lab Control Sample	Total/NA	Solid	9014	221468
LLCS 180-221468/1-A	Lab Control Sample	Total/NA	Solid	9014	221468

TestAmerica Pittsburgh
301 Alpha Drive RIDC Park
Pittsburgh, PA 15238
Phone (412) 963-7058 Fax (412) 963-2468

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Ashwin Ranna	Lab PM: Dunlap, David A	Carrier Tracking No(s):	COC No: 180-38494-8381.1
Client Contact: Ashwin Ranna, Arom Kasnopoler	Phone: 2125524758	E-Mail: david.dunlap@testamericainc.com		Page: Page 1 of 1
Company: Geosyntec Consultants, Inc.				Job #:
Address: Penn Center West One, Suite 402 1 Penn Center West Drive	Due Date Requested:			
City: Pittsburgh	TAT Requested (days): 1 Day			
State, Zip: PA, 15276				
Phone:	PO #: MN0832B			
Email: aranna@geosyntec.com; akrasnopoler@geosyntec.com	WO #:			
Project Name: Former Sperry Remington Site - North IRM	Project #: 18013464			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL M - Hexane
B - NaOH N - None

180-69679 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - VOA-Select List	6010C, 7471B, 9014 - Select ICP Metals, Mercury, Cyanide	8082A, 8270D, PCBs, Select BNA	8260C - VOA-Select List (Trip Blanks only)	Total Number of conta	Special Instructions/Note:
Preservation Code:							N	N	N	A		
Wb 4-5 S2A 82417	8.24.2017	1250	G	Solid	N	N	X					Rush.
Wb 4-5 S2B 82417	8.24.17	1255	G	Solid	N	N	X					
Wb 4-5 S2C 82417	8.24.17	1300	C	Solid	N	N		X	X			
Wb 5-6 S 2A 82417	8.24.17	1310	G	Solid	N	N	X					
Wb 5-6 S2B 82417	8.24.17	1315	G	Solid	N	N	X					
Wb 5-6 S2C 82417	8.24.17	1320	C	Solid	N	N		X	X			
~~Wb 5-6 S3A 82417~~	~~8.24.17~~	~~1335~~	~~G~~	~~Solid~~	~~N~~	~~N~~	~~X~~					
~~Wb 5-6 S3B 82417~~	~~8.24.17~~	~~1340~~	~~G~~	~~Solid~~	~~N~~	~~N~~	~~X~~					
~~Wb 5-6 S3C 82417~~	~~8.24.17~~	~~1345~~	~~C~~	~~Solid~~	~~N~~	~~N~~		~~X~~	~~X~~			
Dup 01-22	8.24.17	—	C	Solid	N	N		X	X			
Dup 02-23	8.24.17	—	G	Solid	N	N	X					

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☑ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment: Fedex

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Ashwin Ranna	8.24.2017 1800	Geosyntec		8-25-17 07:55	TA Pitt
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 3.1 CF=0 #12

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 180-69679-1

Login Number: 69679
List Number: 1
Creator: Colussy, Jill L

List Source: TestAmerica Pittsburgh

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

TestAmerica Job ID: 180-69728-1
Client Project/Site: Former Sperry Remington Site - North IRM

For:
Geosyntec Consultants, Inc.
10211 Wincopin Circle
4'th Floor
Columbia, Maryland 21044

Attn: Mr. Aron Krasnopoler

Authorized for release by:
9/5/2017 12:49:59 PM

David Dunlap, Senior Project Manager
(412)963-2432
david.dunlap@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Job ID: 180-69728-1

Laboratory: TestAmerica Pittsburgh

Narrative

Job Narrative
180-69728-1

Receipt
The samples were received on 8/26/2017 9:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.4º C.

GC/MS VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC/MS Semi VOA
Method(s) 8270D LL: The following sample was diluted due to the nature of the sample matrix (extract was dark and viscous): Wb5-6, S3C, 82517 (180-69728-2). Elevated reporting limits (RLs) are provided.

Method(s) 8270D LL: The continuing calibration verification (CCV) analyzed in batch 180-221833 was below method criteria for the following analyte: pentachlorophenol. A CCV standard at or below the reporting limit (RL) was analyzed with the affected sample and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte is considered estimated.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc. TestAmerica Job ID: 180-69728-1
Project/Site: Former Sperry Remington Site - North IRM

Laboratory: TestAmerica Pittsburgh

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	11182	03-31-18

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
2540G		Solid	Percent Moisture
2540G		Solid	Percent Solids
8270D LL	3541	Solid	1,4-Dioxane

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-69728-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-69728-1	Wb5-6, S3A, 82517	Solid	08/25/17 13:30	08/26/17 09:15
180-69728-2	Wb5-6, S3C, 82517	Solid	08/25/17 13:35	08/26/17 09:15

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-69728-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL PIT
8270D LL	Semivolatile Organic Compounds by GC/MS - Low Level	SW846	TAL PIT
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL PIT
6010C	Metals (ICP)	SW846	TAL PIT
7471B	Mercury (CVAA)	SW846	TAL PIT
2540G	SM 2540G	SM22	TAL PIT
9014	Cyanide	SW846	TAL PIT

Protocol References:

SM22 = SM22

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-69728-1

Client Sample ID: Wb5-6, S3A, 82517
Date Collected: 08/25/17 13:30
Date Received: 08/26/17 09:15

Lab Sample ID: 180-69728-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			221368	08/28/17 14:40	CMR	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: Wb5-6, S3A, 82517
Date Collected: 08/25/17 13:30
Date Received: 08/26/17 09:15

Lab Sample ID: 180-69728-1
Matrix: Solid
Percent Solids: 88.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.753 g	5 mL	221423	08/29/17 05:16	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	221413	08/29/17 09:22	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: Wb5-6, S3C, 82517
Date Collected: 08/25/17 13:35
Date Received: 08/26/17 09:15

Lab Sample ID: 180-69728-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			221368	08/28/17 14:40	CMR	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: Wb5-6, S3C, 82517
Date Collected: 08/25/17 13:35
Date Received: 08/26/17 09:15

Lab Sample ID: 180-69728-2
Matrix: Solid
Percent Solids: 87.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.5 g	0.5 mL	221762	09/01/17 03:51	BAP	TAL PIT
Total/NA	Analysis	8270D LL		4	1 mL	1 mL	221833	09/01/17 14:40	DLF	TAL PIT
	Instrument ID: CH71									
Total/NA	Prep	3541			15.1 g	20.0 mL	221764	09/01/17 03:55	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	221840	09/01/17 10:40	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	221841	09/01/17 10:41	JMO	TAL PIT
Total/NA	Analysis	8082A		1			221876	09/03/17 00:06	JMO	TAL PIT
	Instrument ID: CHGC16									
Total/NA	Prep	3050B			0.97 g	100 mL	221454	08/29/17 10:23	SES	TAL PIT
Total/NA	Analysis	6010C		1			221716	08/31/17 09:00	RJR	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.56 g	100 mL	221438	08/29/17 09:03	ANA	TAL PIT
Total/NA	Analysis	7471B		1			221625	08/30/17 07:31	ANA	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.05 g	50 mL	221468	08/29/17 14:20	JAS	TAL PIT
Total/NA	Analysis	9014		1			221627	08/29/17 17:27	JAS	TAL PIT
	Instrument ID: SEAL2									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-69728-1

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Analyst References:

Lab: TAL PIT

Batch Type: Cleanup

JMO = John Oravec

Batch Type: Prep

ANA = Alexis Anderson

BAP = Brian Pino

JAS = Joshua Schmidt

KLG = Kathy Gordon

SES = Samantha Strauser

Batch Type: Analysis

ANA = Alexis Anderson

CMR = Carl Reagle

DLF = Donald Ferguson

JAS = Joshua Schmidt

JMO = John Oravec

KLG = Kathy Gordon

RJR = Ron Rosenbaum

Client Sample ID: Wb5-6, S3A, 82517

Lab Sample ID: 180-69728-1
Date Collected: 08/25/17 13:30
Matrix: Solid
Date Received: 08/26/17 09:15
Percent Solids: 88.5

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.020	0.0031	mg/Kg	☼	08/29/17 05:16	08/29/17 09:22	1
Benzene	ND		0.0049	0.0019	mg/Kg	☼	08/29/17 05:16	08/29/17 09:22	1
2-Butanone (MEK)	ND		0.0049	0.0028	mg/Kg	☼	08/29/17 05:16	08/29/17 09:22	1
Carbon tetrachloride	ND		0.0049	0.0033	mg/Kg	☼	08/29/17 05:16	08/29/17 09:22	1
Chlorobenzene	ND		0.0049	0.0015	mg/Kg	☼	08/29/17 05:16	08/29/17 09:22	1
Chloroform	ND		0.0049	0.0021	mg/Kg	☼	08/29/17 05:16	08/29/17 09:22	1
cis-1,2-Dichloroethene	ND		0.0049	0.0015	mg/Kg	☼	08/29/17 05:16	08/29/17 09:22	1
1,2-Dichlorobenzene	ND		0.0049	0.0040	mg/Kg	☼	08/29/17 05:16	08/29/17 09:22	1
1,3-Dichlorobenzene	ND		0.0049	0.0016	mg/Kg	☼	08/29/17 05:16	08/29/17 09:22	1
1,4-Dichlorobenzene	ND		0.0049	0.0010	mg/Kg	☼	08/29/17 05:16	08/29/17 09:22	1
1,1-Dichloroethane	ND		0.0049	0.0018	mg/Kg	☼	08/29/17 05:16	08/29/17 09:22	1
1,2-Dichloroethane	ND		0.0049	0.0014	mg/Kg	☼	08/29/17 05:16	08/29/17 09:22	1
1,1-Dichloroethene	ND		0.0049	0.0028	mg/Kg	☼	08/29/17 05:16	08/29/17 09:22	1
Ethylbenzene	ND		0.0049	0.0021	mg/Kg	☼	08/29/17 05:16	08/29/17 09:22	1
Methylene Chloride	ND		0.0049	0.0023	mg/Kg	☼	08/29/17 05:16	08/29/17 09:22	1
Methyl tert-butyl ether	ND		0.0049	0.0036	mg/Kg	☼	08/29/17 05:16	08/29/17 09:22	1
n-Butylbenzene	ND		0.0049	0.0037	mg/Kg	☼	08/29/17 05:16	08/29/17 09:22	1
N-Propylbenzene	ND		0.0049	0.0021	mg/Kg	☼	08/29/17 05:16	08/29/17 09:22	1
sec-Butylbenzene	ND		0.0049	0.0024	mg/Kg	☼	08/29/17 05:16	08/29/17 09:22	1
tert-Butylbenzene	ND		0.0049	0.0018	mg/Kg	☼	08/29/17 05:16	08/29/17 09:22	1
Tetrachloroethene	ND		0.0049	0.0020	mg/Kg	☼	08/29/17 05:16	08/29/17 09:22	1
Toluene	ND		0.0049	0.0017	mg/Kg	☼	08/29/17 05:16	08/29/17 09:22	1
trans-1,2-Dichloroethene	ND		0.0049	0.0025	mg/Kg	☼	08/29/17 05:16	08/29/17 09:22	1
1,1,1-Trichloroethane	ND		0.0049	0.0025	mg/Kg	☼	08/29/17 05:16	08/29/17 09:22	1
Trichloroethene	ND		0.0049	0.0015	mg/Kg	☼	08/29/17 05:16	08/29/17 09:22	1
1,2,4-Trimethylbenzene	ND		0.0049	0.0013	mg/Kg	☼	08/29/17 05:16	08/29/17 09:22	1
1,3,5-Trimethylbenzene	ND		0.0049	0.0017	mg/Kg	☼	08/29/17 05:16	08/29/17 09:22	1
Vinyl chloride	ND		0.0049	0.0036	mg/Kg	☼	08/29/17 05:16	08/29/17 09:22	1
Xylenes, Total	ND		0.0098	0.0042	mg/Kg	☼	08/29/17 05:16	08/29/17 09:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*73 - 113*	*08/29/17 05:16*	*08/29/17 09:22*	*1*
Dibromofluoromethane (Surr)	*86*		*73 - 113*	*08/29/17 05:16*	*08/29/17 09:22*	*1*
1,2-Dichloroethane-d4 (Surr)	*89*		*63 - 112*	*08/29/17 05:16*	*08/29/17 09:22*	*1*
Toluene-d8 (Surr)	*108*		*90 - 130*	*08/29/17 05:16*	*08/29/17 09:22*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**11.5**		0.1	0.1	%			08/28/17 14:40	1
Percent Solids	**88.5**		0.1	0.1	%			08/28/17 14:40	1

Client Sample ID: Wb5-6, S3C, 82517

Lab Sample ID: 180-69728-2
Date Collected: 08/25/17 13:35
Matrix: Solid
Date Received: 08/26/17 09:15
Percent Solids: 87.1

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		30	10	ug/Kg	☼	09/01/17 03:51	09/01/17 14:40	4
Acenaphthylene	**37**		30	10	ug/Kg	☼	09/01/17 03:51	09/01/17 14:40	4
Anthracene	**23**	**J**	30	11	ug/Kg	☼	09/01/17 03:51	09/01/17 14:40	4

Client Sample ID: Wb5-6, S3C, 82517 **Lab Sample ID: 180-69728-2**
Date Collected: 08/25/17 13:35 **Matrix: Solid**
Date Received: 08/26/17 09:15 **Percent Solids: 87.1**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	**57**		30	12	ug/Kg	☼	09/01/17 03:51	09/01/17 14:40	4
Benzo[a]pyrene	**61**		30	12	ug/Kg	☼	09/01/17 03:51	09/01/17 14:40	4
Benzo[b]fluoranthene	**82**		30	13	ug/Kg	☼	09/01/17 03:51	09/01/17 14:40	4
Benzo[g,h,i]perylene	**77**		30	13	ug/Kg	☼	09/01/17 03:51	09/01/17 14:40	4
Benzo[k]fluoranthene	**31**		30	10	ug/Kg	☼	09/01/17 03:51	09/01/17 14:40	4
Chrysene	**69**		30	12	ug/Kg	☼	09/01/17 03:51	09/01/17 14:40	4
Dibenz(a,h)anthracene	**17**	**J**	30	12	ug/Kg	☼	09/01/17 03:51	09/01/17 14:40	4
Dibenzofuran	ND		150	12	ug/Kg	☼	09/01/17 03:51	09/01/17 14:40	4
2,4-Dinitrotoluene	ND		150	20	ug/Kg	☼	09/01/17 03:51	09/01/17 14:40	4
1,4-Dioxane	ND		300	22	ug/Kg	☼	09/01/17 03:51	09/01/17 14:40	4
Fluoranthene	**96**		30	12	ug/Kg	☼	09/01/17 03:51	09/01/17 14:40	4
Fluorene	ND		30	11	ug/Kg	☼	09/01/17 03:51	09/01/17 14:40	4
Hexachlorobenzene	ND		30	12	ug/Kg	☼	09/01/17 03:51	09/01/17 14:40	4
Hexachlorobutadiene	ND		30	9.3	ug/Kg	☼	09/01/17 03:51	09/01/17 14:40	4
Hexachloroethane	ND		150	11	ug/Kg	☼	09/01/17 03:51	09/01/17 14:40	4
Indeno[1,2,3-cd]pyrene	**61**		30	11	ug/Kg	☼	09/01/17 03:51	09/01/17 14:40	4
2-Methylphenol	ND		150	13	ug/Kg	☼	09/01/17 03:51	09/01/17 14:40	4
Methylphenol, 3 & 4	**17**	**J**	150	13	ug/Kg	☼	09/01/17 03:51	09/01/17 14:40	4
Naphthalene	**33**		30	11	ug/Kg	☼	09/01/17 03:51	09/01/17 14:40	4
Nitrobenzene	ND		300	11	ug/Kg	☼	09/01/17 03:51	09/01/17 14:40	4
Pentachlorophenol	ND		760	280	ug/Kg	☼	09/01/17 03:51	09/01/17 14:40	4
Phenanthrene	**48**		30	12	ug/Kg	☼	09/01/17 03:51	09/01/17 14:40	4
Phenol	ND		150	20	ug/Kg	☼	09/01/17 03:51	09/01/17 14:40	4
Pyrene	**87**		30	13	ug/Kg	☼	09/01/17 03:51	09/01/17 14:40	4
Pyridine	ND		150	14	ug/Kg	☼	09/01/17 03:51	09/01/17 14:40	4
2,4,5-Trichlorophenol	ND		150	14	ug/Kg	☼	09/01/17 03:51	09/01/17 14:40	4
2,4,6-Trichlorophenol	ND		150	13	ug/Kg	☼	09/01/17 03:51	09/01/17 14:40	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*73*		*34 - 100*	*09/01/17 03:51*	*09/01/17 14:40*	*4*
2-Fluorophenol (Surr)	*58*		*27 - 100*	*09/01/17 03:51*	*09/01/17 14:40*	*4*
Nitrobenzene-d5 (Surr)	*74*		*33 - 100*	*09/01/17 03:51*	*09/01/17 14:40*	*4*
Phenol-d5 (Surr)	*59*		*27 - 100*	*09/01/17 03:51*	*09/01/17 14:40*	*4*
Terphenyl-d14 (Surr)	*68*		*30 - 100*	*09/01/17 03:51*	*09/01/17 14:40*	*4*
2,4,6-Tribromophenol (Surr)	*59*		*20 - 107*	*09/01/17 03:51*	*09/01/17 14:40*	*4*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.019	0.010	mg/Kg	☼	09/01/17 03:55	09/03/17 00:06	1
PCB-1221	ND		0.019	0.0098	mg/Kg	☼	09/01/17 03:55	09/03/17 00:06	1
PCB-1232	ND		0.019	0.0075	mg/Kg	☼	09/01/17 03:55	09/03/17 00:06	1
PCB-1242	ND		0.019	0.015	mg/Kg	☼	09/01/17 03:55	09/03/17 00:06	1
PCB-1248	**2.1**		0.019	0.0091	mg/Kg	☼	09/01/17 03:55	09/03/17 00:06	1
PCB-1254	**0.99**		0.019	0.0083	mg/Kg	☼	09/01/17 03:55	09/03/17 00:06	1
PCB-1260	**0.13**		0.019	0.013	mg/Kg	☼	09/01/17 03:55	09/03/17 00:06	1
PCB-1262	ND		0.019	0.014	mg/Kg	☼	09/01/17 03:55	09/03/17 00:06	1
PCB-1268	ND		0.019	0.0058	mg/Kg	☼	09/01/17 03:55	09/03/17 00:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*76*		*33 - 137*	*09/01/17 03:55*	*09/03/17 00:06*	*1*

Client Sample ID: Wb5-6, S3C, 82517 **Lab Sample ID: 180-69728-2**
Date Collected: 08/25/17 13:35 **Matrix: Solid**
Date Received: 08/26/17 09:15 **Percent Solids: 87.1**

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*78*		*33 - 137*	*09/01/17 03:55*	*09/03/17 00:06*	*1*
Tetrachloro-m-xylene (Surr)	*76*		*44 - 114*	*09/01/17 03:55*	*09/03/17 00:06*	*1*
Tetrachloro-m-xylene (Surr)	*77*		*44 - 114*	*09/01/17 03:55*	*09/03/17 00:06*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**6.0**		1.2	0.52	mg/Kg	☼	08/29/17 10:23	08/31/17 09:00	1
Barium	**94**		24	6.4	mg/Kg	☼	08/29/17 10:23	08/31/17 09:00	1
Beryllium	**0.41**	**J**	0.47	0.12	mg/Kg	☼	08/29/17 10:23	08/31/17 09:00	1
Cadmium	**0.17**	**J**	0.59	0.13	mg/Kg	☼	08/29/17 10:23	08/31/17 09:00	1
Chromium	**12**		0.59	0.15	mg/Kg	☼	08/29/17 10:23	08/31/17 09:00	1
Copper	**26**		3.0	0.91	mg/Kg	☼	08/29/17 10:23	08/31/17 09:00	1
Lead	**30**		1.2	0.39	mg/Kg	☼	08/29/17 10:23	08/31/17 09:00	1
Manganese	**400**		1.8	0.48	mg/Kg	☼	08/29/17 10:23	08/31/17 09:00	1
Nickel	**56**		4.7	1.1	mg/Kg	☼	08/29/17 10:23	08/31/17 09:00	1
Selenium	ND		1.2	0.47	mg/Kg	☼	08/29/17 10:23	08/31/17 09:00	1
Silver	ND		0.59	0.20	mg/Kg	☼	08/29/17 10:23	08/31/17 09:00	1
Zinc	**70**		2.4	1.2	mg/Kg	☼	08/29/17 10:23	08/31/17 09:00	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.084**		0.041	0.0091	mg/Kg	☼	08/29/17 09:03	08/30/17 07:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**12.9**		0.1	0.1	%			08/28/17 14:40	1
Percent Solids	**87.1**		0.1	0.1	%			08/28/17 14:40	1
Cyanide, Total	**0.22**	**J**	0.55	0.17	mg/Kg	☼	08/29/17 14:20	08/29/17 17:27	1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 180-221413/8
Matrix: Solid
Analysis Batch: 221413

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.020	0.0032	mg/Kg			08/29/17 08:44	1
Benzene	ND		0.0050	0.0020	mg/Kg			08/29/17 08:44	1
2-Butanone (MEK)	ND		0.0050	0.0029	mg/Kg			08/29/17 08:44	1
Carbon tetrachloride	ND		0.0050	0.0033	mg/Kg			08/29/17 08:44	1
Chlorobenzene	ND		0.0050	0.0016	mg/Kg			08/29/17 08:44	1
Chloroform	ND		0.0050	0.0021	mg/Kg			08/29/17 08:44	1
cis-1,2-Dichloroethene	ND		0.0050	0.0016	mg/Kg			08/29/17 08:44	1
1,2-Dichlorobenzene	ND		0.0050	0.0040	mg/Kg			08/29/17 08:44	1
1,3-Dichlorobenzene	ND		0.0050	0.0016	mg/Kg			08/29/17 08:44	1
1,4-Dichlorobenzene	ND		0.0050	0.0010	mg/Kg			08/29/17 08:44	1
1,1-Dichloroethane	ND		0.0050	0.0018	mg/Kg			08/29/17 08:44	1
1,2-Dichloroethane	ND		0.0050	0.0015	mg/Kg			08/29/17 08:44	1
1,1-Dichloroethene	ND		0.0050	0.0029	mg/Kg			08/29/17 08:44	1
Ethylbenzene	ND		0.0050	0.0022	mg/Kg			08/29/17 08:44	1
Methylene Chloride	ND		0.0050	0.0024	mg/Kg			08/29/17 08:44	1
Methyl tert-butyl ether	ND		0.0050	0.0037	mg/Kg			08/29/17 08:44	1
n-Butylbenzene	ND		0.0050	0.0038	mg/Kg			08/29/17 08:44	1
N-Propylbenzene	ND		0.0050	0.0021	mg/Kg			08/29/17 08:44	1
sec-Butylbenzene	ND		0.0050	0.0024	mg/Kg			08/29/17 08:44	1
tert-Butylbenzene	ND		0.0050	0.0018	mg/Kg			08/29/17 08:44	1
Tetrachloroethene	ND		0.0050	0.0020	mg/Kg			08/29/17 08:44	1
Toluene	ND		0.0050	0.0017	mg/Kg			08/29/17 08:44	1
trans-1,2-Dichloroethene	ND		0.0050	0.0025	mg/Kg			08/29/17 08:44	1
1,1,1-Trichloroethane	ND		0.0050	0.0025	mg/Kg			08/29/17 08:44	1
Trichloroethene	ND		0.0050	0.0015	mg/Kg			08/29/17 08:44	1
1,2,4-Trimethylbenzene	ND		0.0050	0.0013	mg/Kg			08/29/17 08:44	1
1,3,5-Trimethylbenzene	ND		0.0050	0.0017	mg/Kg			08/29/17 08:44	1
Vinyl chloride	ND		0.0050	0.0037	mg/Kg			08/29/17 08:44	1
Xylenes, Total	ND		0.010	0.0043	mg/Kg			08/29/17 08:44	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*73 - 113*		*08/29/17 08:44*	*1*
Dibromofluoromethane (Surr)	*86*		*73 - 113*		*08/29/17 08:44*	*1*
1,2-Dichloroethane-d4 (Surr)	*109*		*63 - 112*		*08/29/17 08:44*	*1*
Toluene-d8 (Surr)	*98*		*90 - 130*		*08/29/17 08:44*	*1*

Lab Sample ID: LCS 180-221413/3
Matrix: Solid
Analysis Batch: 221413

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0400	0.0357		mg/Kg		89	36 - 150
Benzene	0.0400	0.0368		mg/Kg		92	78 - 118
2-Butanone (MEK)	0.0400	0.0317		mg/Kg		79	30 - 150
Carbon tetrachloride	0.0400	0.0452		mg/Kg		113	60 - 137
Chlorobenzene	0.0400	0.0371		mg/Kg		93	78 - 118
Chloroform	0.0400	0.0412		mg/Kg		103	68 - 124
cis-1,2-Dichloroethene	0.0400	0.0370		mg/Kg		92	71 - 120

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 180-221413/3
Matrix: Solid
Analysis Batch: 221413

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichlorobenzene	0.0400	0.0363		mg/Kg		91	78 - 118
1,3-Dichlorobenzene	0.0400	0.0357		mg/Kg		89	78 - 118
1,4-Dichlorobenzene	0.0400	0.0365		mg/Kg		91	78 - 118
1,1-Dichloroethane	0.0400	0.0410		mg/Kg		103	67 - 129
1,2-Dichloroethane	0.0400	0.0472		mg/Kg		118	67 - 123
1,1-Dichloroethene	0.0400	0.0382		mg/Kg		95	59 - 128
Ethylbenzene	0.0400	0.0368		mg/Kg		92	78 - 118
Methylene Chloride	0.0400	0.0374		mg/Kg		94	68 - 120
Methyl tert-butyl ether	0.0400	0.0415		mg/Kg		104	73 - 121
n-Butylbenzene	0.0400	0.0413		mg/Kg		103	71 - 132
N-Propylbenzene	0.0400	0.0371		mg/Kg		93	72 - 126
sec-Butylbenzene	0.0400	0.0392		mg/Kg		98	80 - 126
tert-Butylbenzene	0.0400	0.0391		mg/Kg		98	80 - 122
Tetrachloroethene	0.0400	0.0342		mg/Kg		85	78 - 118
Toluene	0.0400	0.0382		mg/Kg		95	79 - 121
trans-1,2-Dichloroethene	0.0400	0.0394		mg/Kg		99	71 - 123
1,1,1-Trichloroethane	0.0400	0.0464		mg/Kg		116	69 - 135
Trichloroethene	0.0400	0.0346		mg/Kg		86	76 - 120
1,2,4-Trimethylbenzene	0.0400	0.0385		mg/Kg		96	77 - 122
1,3,5-Trimethylbenzene	0.0400	0.0386		mg/Kg		96	78 - 122
Vinyl chloride	0.0400	0.0364		mg/Kg		91	53 - 148
Xylenes, Total	0.0800	0.0729		mg/Kg		91	78 - 118

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*95*		*73 - 113*
Dibromofluoromethane (Surr)	*93*		*73 - 113*
1,2-Dichloroethane-d4 (Surr)	*111*		*63 - 112*
Toluene-d8 (Surr)	*94*		*90 - 130*

Lab Sample ID: 180-69728-1 MS
Matrix: Solid
Analysis Batch: 221413

Client Sample ID: Wb5-6, S3A, 82517
Prep Type: Total/NA
Prep Batch: 221423

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	ND		0.0474	0.0256		mg/Kg	☼	54	36 - 150
Benzene	ND		0.0474	0.0461		mg/Kg	☼	97	78 - 118
2-Butanone (MEK)	ND		0.0474	0.0221		mg/Kg	☼	47	30 - 150
Carbon tetrachloride	ND		0.0474	0.0613		mg/Kg	☼	129	60 - 137
Chlorobenzene	ND		0.0474	0.0480		mg/Kg	☼	101	78 - 118
Chloroform	ND		0.0474	0.0499		mg/Kg	☼	105	68 - 124
cis-1,2-Dichloroethene	ND		0.0474	0.0457		mg/Kg	☼	96	71 - 120
1,2-Dichlorobenzene	ND		0.0474	0.0438		mg/Kg	☼	92	78 - 118
1,3-Dichlorobenzene	ND		0.0474	0.0468		mg/Kg	☼	99	78 - 118
1,4-Dichlorobenzene	ND		0.0474	0.0466		mg/Kg	☼	98	78 - 118
1,1-Dichloroethane	ND		0.0474	0.0518		mg/Kg	☼	109	67 - 129
1,2-Dichloroethane	ND		0.0474	0.0468		mg/Kg	☼	99	67 - 123
1,1-Dichloroethene	ND		0.0474	0.0495		mg/Kg	☼	104	59 - 128
Ethylbenzene	ND		0.0474	0.0502		mg/Kg	☼	106	78 - 118

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 180-69728-1 MS
Matrix: Solid
Analysis Batch: 221413

Client Sample ID: Wb5-6, S3A, 82517
Prep Type: Total/NA
Prep Batch: 221423

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Methylene Chloride	ND		0.0474	0.0420		mg/Kg	☼	88	68 - 120
Methyl tert-butyl ether	ND		0.0474	0.0379		mg/Kg	☼	80	73 - 121
n-Butylbenzene	ND		0.0474	0.0576		mg/Kg	☼	121	71 - 132
N-Propylbenzene	ND		0.0474	0.0553		mg/Kg	☼	117	72 - 126
sec-Butylbenzene	ND		0.0474	0.0574		mg/Kg	☼	121	80 - 126
tert-Butylbenzene	ND		0.0474	0.0575		mg/Kg	☼	121	80 - 122
Tetrachloroethene	ND		0.0474	0.0474		mg/Kg	☼	100	78 - 118
Toluene	ND		0.0474	0.0516		mg/Kg	☼	109	79 - 121
trans-1,2-Dichloroethene	ND		0.0474	0.0513		mg/Kg	☼	108	71 - 123
1,1,1-Trichloroethane	ND		0.0474	0.0619		mg/Kg	☼	131	69 - 135
Trichloroethene	ND		0.0474	0.0451		mg/Kg	☼	95	76 - 120
1,2,4-Trimethylbenzene	ND		0.0474	0.0547		mg/Kg	☼	115	77 - 122
1,3,5-Trimethylbenzene	ND		0.0474	0.0564		mg/Kg	☼	119	78 - 122
Vinyl chloride	ND		0.0474	0.0478		mg/Kg	☼	101	53 - 148
Xylenes, Total	ND		0.0948	0.0982		mg/Kg	☼	104	78 - 118

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*95*		*73 - 113*
Dibromofluoromethane (Surr)	*92*		*73 - 113*
1,2-Dichloroethane-d4 (Surr)	*91*		*63 - 112*
Toluene-d8 (Surr)	*106*		*90 - 130*

Lab Sample ID: 180-69728-1 MSD
Matrix: Solid
Analysis Batch: 221413

Client Sample ID: Wb5-6, S3A, 82517
Prep Type: Total/NA
Prep Batch: 221423

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	ND		0.0492	0.0270		mg/Kg	☼	55	36 - 150	5	35
Benzene	ND		0.0492	0.0474		mg/Kg	☼	96	78 - 118	3	15
2-Butanone (MEK)	ND		0.0492	0.0246		mg/Kg	☼	50	30 - 150	11	35
Carbon tetrachloride	ND		0.0492	0.0637		mg/Kg	☼	129	60 - 137	4	21
Chlorobenzene	ND		0.0492	0.0480		mg/Kg	☼	97	78 - 118	0	15
Chloroform	ND		0.0492	0.0519		mg/Kg	☼	105	68 - 124	4	15
cis-1,2-Dichloroethene	ND		0.0492	0.0469		mg/Kg	☼	95	71 - 120	3	15
1,2-Dichlorobenzene	ND		0.0492	0.0451		mg/Kg	☼	92	78 - 118	3	15
1,3-Dichlorobenzene	ND		0.0492	0.0474		mg/Kg	☼	96	78 - 118	1	15
1,4-Dichlorobenzene	ND		0.0492	0.0473		mg/Kg	☼	96	78 - 118	1	15
1,1-Dichloroethane	ND		0.0492	0.0537		mg/Kg	☼	109	67 - 129	4	15
1,2-Dichloroethane	ND		0.0492	0.0495		mg/Kg	☼	101	67 - 123	6	15
1,1-Dichloroethene	ND		0.0492	0.0518		mg/Kg	☼	105	59 - 128	5	17
Ethylbenzene	ND		0.0492	0.0507		mg/Kg	☼	103	78 - 118	1	15
Methylene Chloride	ND		0.0492	0.0439		mg/Kg	☼	89	68 - 120	5	19
Methyl tert-butyl ether	ND		0.0492	0.0404		mg/Kg	☼	82	73 - 121	7	24
n-Butylbenzene	ND		0.0492	0.0573		mg/Kg	☼	116	71 - 132	1	16
N-Propylbenzene	ND		0.0492	0.0559		mg/Kg	☼	114	72 - 126	1	24
sec-Butylbenzene	ND		0.0492	0.0568		mg/Kg	☼	115	80 - 126	1	18
tert-Butylbenzene	ND		0.0492	0.0575		mg/Kg	☼	117	80 - 122	0	19
Tetrachloroethene	ND		0.0492	0.0477		mg/Kg	☼	97	78 - 118	1	20

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 180-69728-1 MSD
Matrix: Solid
Analysis Batch: 221413

Client Sample ID: Wb5-6, S3A, 82517
Prep Type: Total/NA
Prep Batch: 221423

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Toluene	ND		0.0492	0.0516		mg/Kg	☼	105	79 - 121	0	18
trans-1,2-Dichloroethene	ND		0.0492	0.0523		mg/Kg	☼	106	71 - 123	2	15
1,1,1-Trichloroethane	ND		0.0492	0.0634		mg/Kg	☼	129	69 - 135	2	22
Trichloroethene	ND		0.0492	0.0462		mg/Kg	☼	94	76 - 120	2	15
1,2,4-Trimethylbenzene	ND		0.0492	0.0550		mg/Kg	☼	112	77 - 122	0	16
1,3,5-Trimethylbenzene	ND		0.0492	0.0568		mg/Kg	☼	115	78 - 122	1	17
Vinyl chloride	ND		0.0492	0.0497		mg/Kg	☼	101	53 - 148	4	35
Xylenes, Total	ND		0.0984	0.0992		mg/Kg	☼	101	78 - 118	1	15

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*90*		*73 - 113*
Dibromofluoromethane (Surr)	*90*		*73 - 113*
1,2-Dichloroethane-d4 (Surr)	*90*		*63 - 112*
Toluene-d8 (Surr)	*99*		*90 - 130*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Lab Sample ID: MB 180-221762/1-A
Matrix: Solid
Analysis Batch: 221833

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 221762

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		3.4	1.1	ug/Kg		09/01/17 03:51	09/01/17 12:53	1
Acenaphthylene	ND		3.4	1.1	ug/Kg		09/01/17 03:51	09/01/17 12:53	1
Anthracene	ND		3.4	1.2	ug/Kg		09/01/17 03:51	09/01/17 12:53	1
Benzo[a]anthracene	ND		3.4	1.3	ug/Kg		09/01/17 03:51	09/01/17 12:53	1
Benzo[a]pyrene	ND		3.4	1.4	ug/Kg		09/01/17 03:51	09/01/17 12:53	1
Benzo[b]fluoranthene	ND		3.4	1.4	ug/Kg		09/01/17 03:51	09/01/17 12:53	1
Benzo[g,h,i]perylene	ND		3.4	1.4	ug/Kg		09/01/17 03:51	09/01/17 12:53	1
Benzo[k]fluoranthene	ND		3.4	1.2	ug/Kg		09/01/17 03:51	09/01/17 12:53	1
Chrysene	ND		3.4	1.3	ug/Kg		09/01/17 03:51	09/01/17 12:53	1
Dibenz(a,h)anthracene	ND		3.4	1.4	ug/Kg		09/01/17 03:51	09/01/17 12:53	1
Dibenzofuran	ND		17	1.3	ug/Kg		09/01/17 03:51	09/01/17 12:53	1
2,4-Dinitrotoluene	ND		17	2.2	ug/Kg		09/01/17 03:51	09/01/17 12:53	1
1,4-Dioxane	ND		33	2.5	ug/Kg		09/01/17 03:51	09/01/17 12:53	1
Fluoranthene	ND		3.4	1.3	ug/Kg		09/01/17 03:51	09/01/17 12:53	1
Fluorene	ND		3.4	1.2	ug/Kg		09/01/17 03:51	09/01/17 12:53	1
Hexachlorobenzene	ND		3.4	1.3	ug/Kg		09/01/17 03:51	09/01/17 12:53	1
Hexachlorobutadiene	ND		3.4	1.1	ug/Kg		09/01/17 03:51	09/01/17 12:53	1
Hexachloroethane	ND		17	1.2	ug/Kg		09/01/17 03:51	09/01/17 12:53	1
Indeno[1,2,3-cd]pyrene	ND		3.4	1.3	ug/Kg		09/01/17 03:51	09/01/17 12:53	1
2-Methylphenol	ND		17	1.5	ug/Kg		09/01/17 03:51	09/01/17 12:53	1
Methylphenol, 3 & 4	ND		17	1.5	ug/Kg		09/01/17 03:51	09/01/17 12:53	1
Naphthalene	ND		3.4	1.2	ug/Kg		09/01/17 03:51	09/01/17 12:53	1
Nitrobenzene	ND		33	1.3	ug/Kg		09/01/17 03:51	09/01/17 12:53	1
Pentachlorophenol	ND		85	32	ug/Kg		09/01/17 03:51	09/01/17 12:53	1
Phenanthrene	ND		3.4	1.4	ug/Kg		09/01/17 03:51	09/01/17 12:53	1
Phenol	ND		17	2.3	ug/Kg		09/01/17 03:51	09/01/17 12:53	1

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: MB 180-221762/1-A
Matrix: Solid
Analysis Batch: 221833

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 221762

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyrene	ND		3.4	1.5	ug/Kg		09/01/17 03:51	09/01/17 12:53	1
Pyridine	ND		17	1.6	ug/Kg		09/01/17 03:51	09/01/17 12:53	1
2,4,5-Trichlorophenol	ND		17	1.6	ug/Kg		09/01/17 03:51	09/01/17 12:53	1
2,4,6-Trichlorophenol	ND		17	1.5	ug/Kg		09/01/17 03:51	09/01/17 12:53	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*79*		*34 - 100*	*09/01/17 03:51*	*09/01/17 12:53*	*1*
2-Fluorophenol (Surr)	*78*		*27 - 100*	*09/01/17 03:51*	*09/01/17 12:53*	*1*
Nitrobenzene-d5 (Surr)	*84*		*33 - 100*	*09/01/17 03:51*	*09/01/17 12:53*	*1*
Phenol-d5 (Surr)	*83*		*27 - 100*	*09/01/17 03:51*	*09/01/17 12:53*	*1*
Terphenyl-d14 (Surr)	*84*		*30 - 100*	*09/01/17 03:51*	*09/01/17 12:53*	*1*
2,4,6-Tribromophenol (Surr)	*75*		*20 - 107*	*09/01/17 03:51*	*09/01/17 12:53*	*1*

Lab Sample ID: LCS 180-221762/2-A
Matrix: Solid
Analysis Batch: 221833

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 221762

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	333	259		ug/Kg		78	43 - 100
Acenaphthylene	333	260		ug/Kg		78	43 - 100
Anthracene	333	281		ug/Kg		84	48 - 100
Benzo[a]anthracene	333	267		ug/Kg		80	46 - 100
Benzo[a]pyrene	333	279		ug/Kg		84	46 - 100
Benzo[b]fluoranthene	333	259		ug/Kg		78	42 - 100
Benzo[g,h,i]perylene	333	278		ug/Kg		84	45 - 100
Benzo[k]fluoranthene	333	277		ug/Kg		83	45 - 100
Chrysene	333	259		ug/Kg		78	47 - 100
Dibenz(a,h)anthracene	333	276		ug/Kg		83	47 - 100
Dibenzofuran	333	255		ug/Kg		77	48 - 100
2,4-Dinitrotoluene	333	273		ug/Kg		82	45 - 106
1,4-Dioxane	333	265		ug/Kg		80	40 - 115
Fluoranthene	333	257		ug/Kg		77	47 - 100
Fluorene	333	258		ug/Kg		77	45 - 100
Hexachlorobenzene	333	266		ug/Kg		80	45 - 104
Hexachlorobutadiene	333	241		ug/Kg		72	41 - 101
Hexachloroethane	333	254		ug/Kg		76	46 - 100
Indeno[1,2,3-cd]pyrene	333	282		ug/Kg		84	46 - 100
2-Methylphenol	333	252		ug/Kg		76	46 - 100
Methylphenol, 3 & 4	333	243		ug/Kg		73	46 - 100
Naphthalene	333	255		ug/Kg		77	46 - 100
Nitrobenzene	333	278		ug/Kg		83	43 - 100
Pentachlorophenol	667	412		ug/Kg		62	25 - 114
Phenanthrene	333	271		ug/Kg		81	46 - 100
Phenol	333	258		ug/Kg		77	46 - 100
Pyrene	333	290		ug/Kg		87	41 - 100
Pyridine	667	549		ug/Kg		82	10 - 141
2,4,5-Trichlorophenol	333	243		ug/Kg		73	43 - 103
2,4,6-Trichlorophenol	333	258		ug/Kg		77	45 - 104

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	73		34 - 100
2-Fluorophenol (Surr)	73		27 - 100
Nitrobenzene-d5 (Surr)	77		33 - 100
Phenol-d5 (Surr)	76		27 - 100
Terphenyl-d14 (Surr)	81		30 - 100
2,4,6-Tribromophenol (Surr)	72		20 - 107

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 180-221764/1-C
Matrix: Solid
Analysis Batch: 221876

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 221764

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.017	0.0088	mg/Kg		09/01/17 03:55	09/02/17 16:47	1
PCB-1221	ND		0.017	0.0086	mg/Kg		09/01/17 03:55	09/02/17 16:47	1
PCB-1232	ND		0.017	0.0066	mg/Kg		09/01/17 03:55	09/02/17 16:47	1
PCB-1242	ND		0.017	0.013	mg/Kg		09/01/17 03:55	09/02/17 16:47	1
PCB-1248	ND		0.017	0.0080	mg/Kg		09/01/17 03:55	09/02/17 16:47	1
PCB-1254	ND		0.017	0.0073	mg/Kg		09/01/17 03:55	09/02/17 16:47	1
PCB-1260	ND		0.017	0.011	mg/Kg		09/01/17 03:55	09/02/17 16:47	1
PCB-1262	ND		0.017	0.012	mg/Kg		09/01/17 03:55	09/02/17 16:47	1
PCB-1268	ND		0.017	0.0051	mg/Kg		09/01/17 03:55	09/02/17 16:47	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	96		33 - 137	09/01/17 03:55	09/02/17 16:47	1
DCB Decachlorobiphenyl (Surr)	112		33 - 137	09/01/17 03:55	09/02/17 16:47	1
Tetrachloro-m-xylene (Surr)	94		44 - 114	09/01/17 03:55	09/02/17 16:47	1
Tetrachloro-m-xylene (Surr)	98		44 - 114	09/01/17 03:55	09/02/17 16:47	1

Lab Sample ID: LCS 180-221764/2-C
Matrix: Solid
Analysis Batch: 221876

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 221764

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			1.33	1.35		mg/Kg		101	46 - 122		
PCB-1260			1.33	1.31		mg/Kg		98	51 - 119		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	92		33 - 137
DCB Decachlorobiphenyl (Surr)	104		33 - 137
Tetrachloro-m-xylene (Surr)	96		44 - 114
Tetrachloro-m-xylene (Surr)	98		44 - 114

Lab Sample ID: LCSD 180-221764/3-C
Matrix: Solid
Analysis Batch: 221876

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 221764

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016			1.33	1.35		mg/Kg		101	46 - 122	0	23
PCB-1260			1.33	1.35		mg/Kg		102	51 - 119	3	17

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCSD 180-221764/3-C
Matrix: Solid
Analysis Batch: 221876

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 221764

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*93*		*33 - 137*
DCB Decachlorobiphenyl (Surr)	*104*		*33 - 137*
Tetrachloro-m-xylene (Surr)	*97*		*44 - 114*
Tetrachloro-m-xylene (Surr)	*97*		*44 - 114*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 180-221454/1-A
Matrix: Solid
Analysis Batch: 221716

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 221454

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		1.0	0.44	mg/Kg		08/29/17 10:23	08/31/17 08:50	1
Barium	ND		20	5.4	mg/Kg		08/29/17 10:23	08/31/17 08:50	1
Beryllium	ND		0.40	0.10	mg/Kg		08/29/17 10:23	08/31/17 08:50	1
Cadmium	ND		0.50	0.11	mg/Kg		08/29/17 10:23	08/31/17 08:50	1
Chromium	ND		0.50	0.13	mg/Kg		08/29/17 10:23	08/31/17 08:50	1
Copper	ND		2.5	0.77	mg/Kg		08/29/17 10:23	08/31/17 08:50	1
Lead	ND		1.0	0.33	mg/Kg		08/29/17 10:23	08/31/17 08:50	1
Manganese	ND		1.5	0.41	mg/Kg		08/29/17 10:23	08/31/17 08:50	1
Nickel	ND		4.0	0.90	mg/Kg		08/29/17 10:23	08/31/17 08:50	1
Selenium	ND		1.0	0.40	mg/Kg		08/29/17 10:23	08/31/17 08:50	1
Silver	ND		0.50	0.17	mg/Kg		08/29/17 10:23	08/31/17 08:50	1
Zinc	ND		2.0	1.0	mg/Kg		08/29/17 10:23	08/31/17 08:50	1

Lab Sample ID: LCS 180-221454/2-A
Matrix: Solid
Analysis Batch: 221716

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 221454

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	50.0	48.3		mg/Kg		97	80 - 120
Barium	200	196		mg/Kg		98	80 - 120
Beryllium	5.00	5.05		mg/Kg		101	80 - 120
Cadmium	5.00	4.89		mg/Kg		98	80 - 120
Chromium	20.0	19.5		mg/Kg		98	80 - 120
Copper	25.0	24.7		mg/Kg		99	80 - 120
Lead	50.0	47.2		mg/Kg		94	80 - 120
Manganese	50.0	48.5		mg/Kg		97	80 - 120
Nickel	50.0	48.1		mg/Kg		96	80 - 120
Selenium	50.0	48.1		mg/Kg		96	80 - 120
Silver	5.00	4.93		mg/Kg		99	80 - 120
Zinc	50.0	49.3		mg/Kg		99	80 - 120

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 180-221438/1-A
Matrix: Solid
Analysis Batch: 221625

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 221438

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.033	0.0074	mg/Kg		08/29/17 09:03	08/30/17 07:13	1

Lab Sample ID: LCS 180-221438/2-A
Matrix: Solid
Analysis Batch: 221625

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 221438

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.417	0.476		mg/Kg		114	80 - 120

Method: 9014 - Cyanide

Lab Sample ID: MB 180-221468/4-A
Matrix: Solid
Analysis Batch: 221627

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 221468

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.50	0.15	mg/Kg		08/29/17 14:20	08/29/17 17:06	1

Lab Sample ID: HLCS 180-221468/2-A
Matrix: Solid
Analysis Batch: 221627

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 221468

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.250	0.246		mg/Kg		98	90 - 110

Lab Sample ID: LCS 180-221468/3-A
Matrix: Solid
Analysis Batch: 221627

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 221468

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	151	136		mg/Kg		90	38 - 162

Lab Sample ID: LLCS 180-221468/1-A
Matrix: Solid
Analysis Batch: 221627

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 221468

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.0500	0.0483		mg/Kg		97	90 - 110

GC/MS VOA

Analysis Batch: 221413

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-69728-1	Wb5-6, S3A, 82517	Total/NA	Solid	8260C	221423
MB 180-221413/8	Method Blank	Total/NA	Solid	8260C	
LCS 180-221413/3	Lab Control Sample	Total/NA	Solid	8260C	
180-69728-1 MS	Wb5-6, S3A, 82517	Total/NA	Solid	8260C	221423
180-69728-1 MSD	Wb5-6, S3A, 82517	Total/NA	Solid	8260C	221423

Prep Batch: 221423

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-69728-1	Wb5-6, S3A, 82517	Total/NA	Solid	5035	
180-69728-1 MS	Wb5-6, S3A, 82517	Total/NA	Solid	5035	
180-69728-1 MSD	Wb5-6, S3A, 82517	Total/NA	Solid	5035	

GC/MS Semi VOA

Prep Batch: 221762

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-69728-2	Wb5-6, S3C, 82517	Total/NA	Solid	3541	
MB 180-221762/1-A	Method Blank	Total/NA	Solid	3541	
LCS 180-221762/2-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 221833

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-69728-2	Wb5-6, S3C, 82517	Total/NA	Solid	8270D LL	221762
MB 180-221762/1-A	Method Blank	Total/NA	Solid	8270D LL	221762
LCS 180-221762/2-A	Lab Control Sample	Total/NA	Solid	8270D LL	221762

GC Semi VOA

Prep Batch: 221764

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-69728-2	Wb5-6, S3C, 82517	Total/NA	Solid	3541	
MB 180-221764/1-C	Method Blank	Total/NA	Solid	3541	
LCS 180-221764/2-C	Lab Control Sample	Total/NA	Solid	3541	
LCSD 180-221764/3-C	Lab Control Sample Dup	Total/NA	Solid	3541	

Cleanup Batch: 221840

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-69728-2	Wb5-6, S3C, 82517	Total/NA	Solid	3665A	221764
MB 180-221764/1-C	Method Blank	Total/NA	Solid	3665A	221764
LCS 180-221764/2-C	Lab Control Sample	Total/NA	Solid	3665A	221764
LCSD 180-221764/3-C	Lab Control Sample Dup	Total/NA	Solid	3665A	221764

Cleanup Batch: 221841

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-69728-2	Wb5-6, S3C, 82517	Total/NA	Solid	3660B	221840
MB 180-221764/1-C	Method Blank	Total/NA	Solid	3660B	221840
LCS 180-221764/2-C	Lab Control Sample	Total/NA	Solid	3660B	221840
LCSD 180-221764/3-C	Lab Control Sample Dup	Total/NA	Solid	3660B	221840

GC Semi VOA (Continued)

Analysis Batch: 221876

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-69728-2	Wb5-6, S3C, 82517	Total/NA	Solid	8082A	221841
MB 180-221764/1-C	Method Blank	Total/NA	Solid	8082A	221841
LCS 180-221764/2-C	Lab Control Sample	Total/NA	Solid	8082A	221841
LCSD 180-221764/3-C	Lab Control Sample Dup	Total/NA	Solid	8082A	221841

Metals

Prep Batch: 221438

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-69728-2	Wb5-6, S3C, 82517	Total/NA	Solid	7471B	
MB 180-221438/1-A	Method Blank	Total/NA	Solid	7471B	
LCS 180-221438/2-A	Lab Control Sample	Total/NA	Solid	7471B	

Prep Batch: 221454

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-69728-2	Wb5-6, S3C, 82517	Total/NA	Solid	3050B	
MB 180-221454/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 180-221454/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Analysis Batch: 221625

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-69728-2	Wb5-6, S3C, 82517	Total/NA	Solid	7471B	221438
MB 180-221438/1-A	Method Blank	Total/NA	Solid	7471B	221438
LCS 180-221438/2-A	Lab Control Sample	Total/NA	Solid	7471B	221438

Analysis Batch: 221716

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-69728-2	Wb5-6, S3C, 82517	Total/NA	Solid	6010C	221454
MB 180-221454/1-A	Method Blank	Total/NA	Solid	6010C	221454
LCS 180-221454/2-A	Lab Control Sample	Total/NA	Solid	6010C	221454

General Chemistry

Analysis Batch: 221368

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-69728-1	Wb5-6, S3A, 82517	Total/NA	Solid	2540G	
180-69728-2	Wb5-6, S3C, 82517	Total/NA	Solid	2540G	

Prep Batch: 221468

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-69728-2	Wb5-6, S3C, 82517	Total/NA	Solid	9010C	
MB 180-221468/4-A	Method Blank	Total/NA	Solid	9010C	
HLCS 180-221468/2-A	Lab Control Sample	Total/NA	Solid	9010C	
LCS 180-221468/3-A	Lab Control Sample	Total/NA	Solid	9010C	
LLCS 180-221468/1-A	Lab Control Sample	Total/NA	Solid	9010C	

Analysis Batch: 221627

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-69728-2	Wb5-6, S3C, 82517	Total/NA	Solid	9014	221468
MB 180-221468/4-A	Method Blank	Total/NA	Solid	9014	221468

General Chemistry (Continued)

Analysis Batch: 221627 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
HLCS 180-221468/2-A	Lab Control Sample	Total/NA	Solid	9014	221468
LCS 180-221468/3-A	Lab Control Sample	Total/NA	Solid	9014	221468
LLCS 180-221468/1-A	Lab Control Sample	Total/NA	Solid	9014	221468

TestAmerica Pittsburgh
301 Alpha Drive RIDC Park
Pittsburgh, PA 15238
Phone (412) 963-7058 Fax (412) 963-2468

Chain of Custody Record

180-69728 Chain of Custody

Client Information	Sampler: Ashwin Ranna	Lab PM: Dunlap, David A		
Client Contact: Ashwin Ranna Aron Krasnopoler	Phone: 412 567 4758	E-Mail: david.dunlap@testamericainc.com		Page 1 of 1
Company: Geosyntec Consultants, Inc.		**Analysis Requested**		Job #:
Address: Penn Center West One, Suite 402 1 Penn Center West Drive	Due Date Requested:			**Preservation Codes:** A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
City: Pittsburgh	TAT Requested (days): 10 Day			
State, Zip: PA, 15276				
Phone:	PO #: MN0832B			Other:
Email: aranna@geosyntec.com; akrasnopoler@geosyntec.com	WO #:			
Project Name: Former Sperry Remington Site - North IRM	Project #: 18013464			
Site:	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - VOA-Select List	6010C, 7471B, 9014 - Select ICP Metals, Mercury, Cyanide	8082A, 8270D, PCBs, Select BNA	8260C - VOA-Select List (Trip Blanks only)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	A		
WB5-6 S3f 82517	8.25.2017	1330	G	Solid	N	Y	X				2	Rush Perform MS/MSD
WB5-6 S3C 82517	8.25.2017	1335	C	Solid	N	N		X	X		2	Rush
				Solid								
				Solid								
				Solid								
				Solid								
				Solid								
				Solid								
				Solid								
				Solid								
				Solid								
				Solid								

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☑ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Ashwin Ranna	8.25.2017 1700	Geosyntec	Denise Watson	8-26-17 9/5	TAP
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 180-69728-1

Login Number: 69728
List Number: 1
Creator: Watson, Debbie

List Source: TestAmerica Pittsburgh

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Geosyntec consultants

180A Market Place Blvd.
Knoxville, TN 37922
PH 865.330.0037
www.geosyntec.com

Memorandum

Date:	31 August 2017
To:	Aron Krasnopoler
From:	Mary Tyler
CC:	J. Caprio
Subject:	**Stage 2A Data Validation - Level II Data Deliverable, TestAmerica Job ID # 180-69679-1**

SITE: Former Sperry Remington Site-North IRM

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of six solid samples and two field duplicate samples, collected August 24, 2017, as part of the Former Sperry Remington Site-North IRM project. The analyses were performed at TestAmerica Laboratories, Inc., Pittsburgh, Pennsylvania. The samples were analyzed for the following tests:

- Volatile Organic Compounds (VOCs) by EPA Methods 5035/8260C
- Semivolatile Organic Compounds (SVOCs) by EPA Methods 3541/8270D
- Polychlorinated Biphenyls (PCBs) by EPA Methods 3541/8082A
- Metals by EPA Methods 3050B/6010C
- Mercury by EPA Method 7471B
- Total Cyanide by EPA Methods 9010C/9014
- Total Solids by Standard Method 2540G

EXECUTIVE SUMMARY

The samples were handled, prepared, and measured in the same manner under similar prescribed conditions.

Overall, based on this Stage 2A data validation covering the quality control (QC) parameters listed below, the data as qualified are usable for meeting project objectives. Qualified data should be used within the limitations of the qualification.

The data were validated based on the Quality Assurance Project Plan (QAPP) for Former Sperry Remington Facility Industrial Outfall Site, Elmira, New York, NYSDEC Site I.D. # 808043,

NY09-2480-04, July 7, 2010, Revised November 11, 2010, USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review, January 2017 (EPA 540-R-2017-002), USEPA Contract Laboratory Program National Functional Guidelines for Superfund Inorganic Methods Data Review, January 2017 (EPA 540-R-2017-001), the pertinent methods referenced by the laboratory report and professional and technical judgment.

The following samples were analyzed and validated at Stage 2A level in the data set:

Laboratory ID	Client ID
180-69679-1	Wb4-5, S2A 82417
180-69679-2	Wb4-5, S2B 82417
180-69679-3	Wb4-5, S2C 82417
180-69679-4	Wb5-6, S2A 82417

Laboratory ID	Client ID
180-69679-5	Wb5-6, S2B 82417
180-69679-6	Wb5-6, S2C 82417
180-69679-7	DUP 22
180-69679-8	DUP 23

The samples were received at the laboratory at 3.1°C, within the criteria of 0-6°C. No sample preservation issues were noted by the laboratory.

The following sample receiving issues were noted:

- Incorrect error corrections were observed on the chain of custody (COC), instead of the proper procedure of a single strike through, correction, and initials and date of person making the corrections.

- Sample collection times were not documented on the COC for the field duplicate samples. The laboratory assigned collection times of 00:00.

The solids data, used to report the samples on a dry weight basis, were not validated.

1.0 VOLATILE ORGANIC COMPOUNDS

The samples were analyzed for VOCs by EPA methods 5035/8260C.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

✓ Overall Assessment
✓ Holding Times
✓ Method Blank
✓ Matrix Spike/Matrix Spike Duplicate
✓ Laboratory Control Sample

- ✓ Surrogates
- ✓ Trip Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

1.1 Overall Assessment

The VOC data reported in this package are considered usable for meeting project objectives. The analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

The narrative indicated that the continuing calibration verification (CCV) percent differences (%Ds) for 2-butanone and vinyl chloride were high in analytical batch 221134, outside method specified acceptance criteria. The %Ds were both 21.1%D, with low biases. Since the %Ds were within the validation guidance acceptance criteria of 40%D and 30%D, respectively, no qualifications were applied to the data.

1.2 Holding Times

The holding times for the VOC analysis of a solid sample collected using a Terracore are 48 hours from collection to laboratory receipt and 14 days from sample collection to analysis. The holding times were met for the sample analyses.

1.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 221134). VOCs were not detected in the method blank above the method detection limits (MDLs).

1.4 Matrix Spike/Matrix Spike Duplicate (MS/MSD)

An MS/MSD pair was not reported.

1.5 Laboratory Control Sample (LCS)

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery results were within the laboratory specified acceptance criteria.

1.6 Surrogates

Acceptable surrogate recoveries were reported.

1.7 Trip Blank

A trip blank did not accompany the sample set. No qualifications were applied to the data, but the omission should be noted by the data user.

1.8 Field Duplicate

Two field duplicate samples were collected with the sample set. One field duplicate was analyzed for VOCs, DUP 23. Acceptable precision [relative percent difference (RPD) <40% for results greater than five times the reporting limit (RL) and ±2 times the RL for results less than five times the RL] was demonstrated between the field duplicate and the original sample, Wb5-6, S2A 82417.

1.9 Sensitivity

The samples were reported to the MDLs. No elevated non-detect results were reported.

The MDLs were at or below the NYSDEC DER10 App 5 Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010.

1.10 Electronic Data Deliverable (EDD) Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The sample collection date and time were included in the sample IDs in the EDD and not included in the sample IDs in the laboratory report. No other discrepancies were identified between the level II report and the EDD.

2.0 SEMIVOLATILE ORGANIC COMPOUNDS

The samples were analyzed for SVOCs by EPA methods 3541/8270D.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

✓ Overall Assessment

- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Surrogates
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

2.1 Overall Assessment

The SVOC data reported in this package are considered usable for meeting project objectives. The analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

The narrative indicated that the CCV %Ds for 1,4-dioxane, pentachlorophenol and pyridine were high in analytical batch 221263, outside method specified acceptance criteria. The %Ds were 32.8%D, 30.9%D and 40.3%D, respectively, with high biases. Since the %Ds were within the validation guidance acceptance criteria of 40%D, no qualifications were applied to the data.

2.2 Holding Times

The holding times for SVOC analysis of solid samples are 14 days from sample collection to extraction and 40 days from extraction to analysis. The holding times were met for the sample analyses.

2.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 221247). SVOCs were not detected in the method blank above the MDLs.

2.4 Matrix Spike/Matrix Spike Duplicate

An MS/MSD pair was not reported.

2.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery results were within the laboratory specified acceptance criteria.

2.6 Surrogates

Acceptable surrogate recoveries were reported.

2.7 Field Duplicate

Two field duplicate samples were collected. One field duplicate was analyzed for SVOCs, DUP 22. Acceptable precision (RPD <40% for results greater than five times the RL and ±2 times the RL for results less than five times the RL) was demonstrated between the field duplicate and the original sample, Wb4-5, S2C 82417.

2.8 Sensitivity

The samples were reported to the MDLs. No elevated non-detect results were reported.

The MDLs were at or below the NYSDEC DER10 App 5 Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010. It was noted that no NYSDEC DER10 App 5 Constituent Levels for Imported Fill were listed for the following compounds:

2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dinitrotoluene
2-Methylphenol
Dibenzofuran
Hexachlorobenzene

Hexachlorobutadiene
Hexachloroethane
Methylphenol, 3 & 4
Nitrobenzene
Pyridine

2.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The sample collection date and time were included in the sample IDs in the EDD and not included in the sample IDs in the laboratory report. No other discrepancies were identified between the level II report and the EDD.

3.0 POLYCHLORINATED BIPHENYLS

The samples were analyzed for PCBs by EPA Methods 3541/8082A.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

⊗ Overall Assessment
✓ Holding Times
✓ Method Blank
✓ Matrix Spike/Matrix Spike Duplicate
✓ Laboratory Control Sample
✓ Surrogates
✓ Field Duplicate
✓ Sensitivity
✓ Electronic Data Deliverable Review

3.1 Overall Assessment

The PCB data reported in this data set are considered usable for meeting project objectives. The analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

The samples contain mixtures of PCBs 1248 and 1254. There are peaks in 1248 and 1254 that are in both of these PCBs; therefore, there is contribution between PCBs when more than one PCB is detected in a sample. Therefore, based on professional and technical judgment, the concentrations of PCBs 1248 and 1254 in the samples were J qualified as estimated.

Sample ID	Compound	Laboratory Concentration (mg/kg)	Laboratory Flag	Validation Concentration (mg/kg)	Validation Qualifier*	Reason Code**
DUP 22	PCB-1248	0.11	NA	0.11	J	13
DUP 22	PCB-1254	0.031	NA	0.031	J	13
Wb4-5, S2C 82417	PCB-1248	0.12	NA	0.12	J	13
Wb4-5, S2C 82417	PCB-1254	0.032	NA	0.032	J	13
Wb5-6, S2C 82417	PCB-1248	0.14	NA	0.14	J	13
Wb5-6, S2C 82417	PCB-1254	0.041	NA	0.041	J	13

mg/kg-milligrams per kilograms

NA-not applicable
* Validation qualifiers are defined in Attachment 1 at the end of this report
**Reason codes are defined in Attachment 2 at the end of this report

3.2 Holding Times

No holding times are listed in the referenced method for PCB analyses. The samples were extracted and analyzed within 13 days of collection. Therefore, no qualifications were applied to the data, based on professional and technical judgment.

3.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 221249). PCBs were not detected in the method blank above the MDLs.

3.4 Matrix Spike/Matrix Spike Duplicate

An MS/MSD pair was not reported.

3.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS/LCS duplicate (LCSD) pair was reported. The recovery and RPD results were within the laboratory specified acceptance criteria.

3.6 Surrogates

Acceptable surrogate recoveries were reported.

3.7 Field Duplicate

Two field duplicate samples were collected. One field duplicate was analyzed for PCBs, DUP 22. Acceptable precision (RPD <40% for results greater than five times the RL and ±2 times the RL for results less than five times the RL) was demonstrated between the field duplicate and the original sample, Wb4-5, S2C 82417.

3.8 Sensitivity

The samples were reported to the MDLs. No elevated non-detect results were reported.

It was noted that no NYSDEC constituent levels were listed for PCBs.

3.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The sample collection date and time were included in the sample IDs in the EDD and not included in the sample IDs in the laboratory report. No other discrepancies were identified between the level II report and the EDD.

4.0 METALS

The samples were analyzed for metals by EPA methods 3050B/6010C (Mercury evaluated separately in Section 5.0, below).

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

4.1 Overall Assessment

The metals data reported in this data set are considered usable for meeting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

4.2 Holding Times

The holding time for the metals analysis of a solid sample is 180 days from sample collection to analysis. The holding times were met for the sample analyses.

4.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 221352). The metals were not detected in the method blank above the MDLs.

4.4 Matrix Spike/Matrix Spike Duplicate

An MS/MSD pair was not reported.

4.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery results were within the laboratory specified acceptance criteria.

4.6 Laboratory Duplicate

A laboratory duplicate was not reported.

4.7 Field Duplicate

Two field duplicate samples were collected. One field duplicate was analyzed for metals, DUP 22. Acceptable precision (RPD <40% for results greater than five times the RL and ±2 times the RL for results less than five times the RL) was demonstrated between the field duplicate and the original sample, Wb4-5, S2C 82417.

4.8 Sensitivity

The samples were reported to the MDLs. No elevated non-detect results were reported.

The MDLs were at or below the NYSDEC DER10 App 5 Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010. It was noted that no NYSDEC constituent level was listed for chromium.

4.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The sample collection date and time were included in the sample IDs in the EDD and not included in the sample

IDs in the laboratory report. No other discrepancies were identified between the level II report and the EDD.

5.0 MERCURY

The samples were analyzed for mercury by EPA method 7471B.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

✓ Overall Assessment
✓ Holding Times
✓ Method Blank
⊗ Matrix Spike/Matrix Spike Duplicate
✓ Laboratory Control Sample
✓ Laboratory Duplicate
✓ Field Duplicate
✓ Sensitivity
✓ Electronic Data Deliverable Review

5.1 Overall Assessment

The mercury data reported in this data set are considered usable for meeting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

5.2 Holding Times

The holding time for the mercury analysis of solid samples is 28 days from sample collection to analysis. The holding times were met for the sample analyses.

5.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 221438). Mercury was not detected in the method blank above the MDL.

5.4 Matrix Spike/Matrix Spike Duplicate

MS/MSD pairs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One sample set specific MS/MSD pair was reported, using sample Wb4-5, S2C 82417. The recovery and RPD results were within the laboratory specified acceptance criteria, with the following exception.

The MS recovery was high and outside the laboratory specified acceptance criteria. Therefore, the concentration of mercury in sample Wb4-5, S2C 82417 was J qualified as estimated.

Sample ID	Compound	Laboratory Concentration (mg/kg)	Laboratory Flag	Validation Concentration (mg/kg)	Validation Qualifier*	Reason Code**
Wb4-5, S2C 82417	Mercury	0.016	J, F1	0.016	J	4

mg/kg-milligrams per kilograms
J- Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value
F1-laboratory flag indicating that the MS and/or MSD recovery is outside acceptance limits

5.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery result was within the laboratory specified acceptance criteria.

5.6 Laboratory Duplicate

A laboratory duplicate was not reported.

5.7 Field Duplicate

Two field duplicate samples were collected. One field duplicate was analyzed for mercury, DUP 22. Acceptable precision (RPD <40% for results greater than five times the RL and ±2 times the RL for results less than five times the RL) was demonstrated between the field duplicate and the original sample, Wb4-5, S2C 82417.

5.8 Sensitivity

The samples were reported to the MDL. No elevated non-detect results were reported.

The MDL was at or below the NYSDEC DER10 App 5 Constituent Level for Imported Fill or Soil Restricted Residential Use May 2010.

5.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The sample collection date and time were included in the sample IDs in the EDD and not included in the sample IDs in the laboratory report. No other discrepancies were identified between the level II report and the EDD.

6.0 TOTAL CYANIDE

The samples were analyzed for total cyanide by EPA Methods 9010C/9014.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

6.1 Overall Assessment

The total cyanide data reported in this data set are considered usable for meeting project objectives. The analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

6.2 Holding Times

The holding time for the total cyanide analysis of solid samples is 14 days from sample collection to analysis. The holding times were met for the sample analyses.

6.3 Method Blanks

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 221468). Cyanide was not detected in the method blank above the MDL.

6.4 Matrix Spike/Matrix Spike Duplicate

An MS/MSD pair was not reported.

6.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Three LCSs were reported. The recovery results were within the laboratory specified acceptance criteria.

6.6 Laboratory Duplicate

Laboratory duplicates were not reported.

6.7 Field Duplicate

Two field duplicate samples were collected. One field duplicate was analyzed for cyanide, DUP 22. Acceptable precision (RPD <40% for results greater than five times the RL and ±2 times the RL for results less than five times the RL) was demonstrated between the field duplicate and the original sample, Wb4-5, S2C 82417.

6.8 Sensitivity

The samples were reported to the MDL. No elevated non-detect results were reported.

The MDL was at or below the NYSDEC DER10 App 5 Constituent Level for Imported Fill or Soil Restricted Residential Use May 2010.

6.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The sample collection date and time were included in the sample IDs in the EDD and not included in the sample IDs in the laboratory report. No other discrepancies were identified between the level II report and the EDD.

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ATTACHMENT 1
DATA VALIDATION QUALIFIER DEFINITIONS AND INTERPRETATION KEY
Assigned by Geosyntec's Data Validation Team

DATA QUALIFIER DEFINITIONS

U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

J+ The analyte was positively identified; however, the associated numerical value is likely to be higher that the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.

J- The analyte was positively identified; however, the associated numerical value is likely to be lower that the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ATTACHMENT 2
DATA VALIDATION REASON CODES
Assigned by Geosyntec's Data Validation Team

Valid Value	Description
1	Preservation requirement not met
2	Analysis holding time exceeded
3	Blank contamination (i.e., method, trip, equipment, etc.)
4	Matrix spike/matrix spike duplicate recovery or RPD outside limits
5	LCS recovery outside limits
6	Surrogate recovery outside limits
7	Field Duplicate RPD exceeded
8	Serial dilution percent difference exceeded
9	Calibration criteria not met
10	Linear range exceeded
11	Internal standard criteria not met
12	Lab duplicates RPD exceeded
13	Other

RPD-relative percent difference

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Memorandum

Date:	11 September 2017
To:	Aron Krasnopoler
From:	Mary Tyler
CC:	J. Caprio
Subject:	**Stage 2A Data Validation - Level II Data Deliverable, TestAmerica Job ID # 180-69728-1**

SITE: Former Sperry Remington Site-North IRM

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of two solid samples, collected August 25, 2017, as part of the Former Sperry Remington Site-North IRM project. The analyses were performed at TestAmerica Laboratories, Inc., Pittsburgh, Pennsylvania. The samples were analyzed for the following tests:

- Volatile Organic Compounds (VOCs) by EPA Methods 5035/8260C
- Semivolatile Organic Compounds (SVOCs) by EPA Methods 3541/8270D
- Polychlorinated Biphenyls (PCBs) by EPA Methods 3541/8082A
- Metals by EPA Methods 3050B/6010C
- Mercury by EPA Method 7471B
- Total Cyanide by EPA Methods 9010C/9014
- Total Solids by Standard Method 2540G

EXECUTIVE SUMMARY

The samples were handled, prepared, and measured in the same manner under similar prescribed conditions.

Overall, based on this Stage 2A data validation covering the quality control (QC) parameters listed below, the data as qualified are usable for meeting project objectives. Qualified data should be used within the limitations of the qualification.

The data were validated based on the Quality Assurance Project Plan (QAPP) for Former Sperry Remington Facility Industrial Outfall Site, Elmira, New York, NYSDEC Site I.D. # 808043,

NY09-2480-04, July 7, 2010, Revised November 11, 2010, USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review, January 2017 (EPA 540-R-2017-002), USEPA Contract Laboratory Program National Functional Guidelines for Superfund Inorganic Methods Data Review, January 2017 (EPA 540-R-2017-001), the pertinent methods referenced by the laboratory report and professional and technical judgment.

The following samples were analyzed and validated at Stage 2A level in the data set:

Laboratory ID	Client ID
180-69728-1	Wb5-6, S3A, 82517

Laboratory ID	Client ID
180-69728-2	Wb5-6, S3C, 82517

The samples were received at the laboratory at 2.4°C, within the criteria of 0-6°C. No sample preservation issues were noted by the laboratory.

The solids data, used to report the samples on a dry weight basis, were not validated.

1.0 VOLATILE ORGANIC COMPOUNDS

The samples were analyzed for VOCs by EPA methods 5035/8260C.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Surrogates
- ✓ Trip Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

1.1 Overall Assessment

The VOC data reported in this package are considered usable for meeting project objectives. The analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

1.2 Holding Times

The holding times for the VOC analysis of a solid sample collected using a Terracore are 48 hours from collection to laboratory receipt and 14 days from sample collection to analysis. The holding times were met for the sample analyses.

1.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 221413). VOCs were not detected in the method blank above the method detection limits (MDLs).

1.4 Matrix Spike/Matrix Spike Duplicate (MS/MSD)

MS/MSD pairs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One sample set specific MS/MSD pair was reported, using sample Wb5-6, S3A, 82517. The recovery and relative percent difference (RPD) results were within the laboratory specified acceptance criteria.

1.5 Laboratory Control Sample (LCS)

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery results were within the laboratory specified acceptance criteria.

1.6 Surrogates

Acceptable surrogate recoveries were reported.

1.7 Trip Blank

A trip blank did not accompany the sample set. No qualifications were applied to the data, but the omission should be noted by the data user.

1.8 Field Duplicate

Field duplicate samples were not collected with the sample set.

1.9 Sensitivity

The samples were reported to the MDLs. No elevated non-detect results were reported.

The MDLs were at or below the NYSDEC DER10 App 5 Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010.

1.10 Electronic Data Deliverable (EDD) Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The sample collection date and time were included in the sample IDs in the EDD and not included in the sample IDs in the laboratory report. No other discrepancies were identified between the level II report and the EDD.

2.0 SEMIVOLATILE ORGANIC COMPOUNDS

The samples were analyzed for SVOCs by EPA methods 3541/8270D.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Surrogates
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

2.1 Overall Assessment

The SVOC data reported in this package are considered usable for meeting project objectives. The analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

The narrative indicated that the continuing calibration verification (CCV) percent difference (%D) for pentachlorophenol was high in analytical batch 221833, outside method specified acceptance criteria. The %D was 38.5%D, with a low bias. Since the %D was within the validation guidance acceptance criteria of 40%D, no qualifications were applied to the data.

2.2 Holding Times

The holding times for SVOC analysis of solid samples are 14 days from sample collection to extraction and 40 days from extraction to analysis. The holding times were met for the sample analyses.

2.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 221762). SVOCs were not detected in the method blank above the MDLs.

2.4 Matrix Spike/Matrix Spike Duplicate

An MS/MSD pair was not reported.

2.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery results were within the laboratory specified acceptance criteria.

2.6 Surrogates

Acceptable surrogate recoveries were reported.

2.7 Field Duplicate

Field duplicate samples were not collected with the sample set.

2.8 Sensitivity

The samples were reported to the MDLs. No elevated non-detect results were reported.

The MDLs were at or below the NYSDEC DER10 App 5 Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010. It was noted that no NYSDEC DER10 App 5 Constituent Levels for Imported Fill were listed for the following compounds:

2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dinitrotoluene

2-Methylphenol
Dibenzofuran
Hexachlorobenzene

Hexachlorobutadiene
Hexachloroethane
Methylphenol, 3 & 4

Nitrobenzene
Pyridine

2.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The sample collection date and time were included in the sample IDs in the EDD and not included in the sample IDs in the laboratory report. No other discrepancies were identified between the level II report and the EDD.

3.0 POLYCHLORINATED BIPHENYLS

The samples were analyzed for PCBs by EPA Methods 3541/8082A.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

⊗ Overall Assessment
✓ Holding Times
✓ Method Blank
✓ Matrix Spike/Matrix Spike Duplicate
✓ Laboratory Control Sample
✓ Surrogates
✓ Field Duplicate
✓ Sensitivity
✓ Electronic Data Deliverable Review

3.1 Overall Assessment

The PCB data reported in this data set are considered usable for meeting project objectives. The analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

Sample Wb5-6, S3C, 82517 contains a mixture of PCBs 1248, 1254 and 1260. There are peaks in 1248 and 1254 that are in both of these PCBs and peaks in 1254 and 1260 that are in both of these PCBs; therefore, there is contribution between PCBs when more than one PCB is detected in a

sample. Based on professional and technical judgment, the concentrations of PCBs 1248, 1254 and 1260 in this sample were J qualified as estimated.

Sample ID	Compound	Laboratory Concentration (mg/kg)	Laboratory Flag	Validation Concentration (mg/kg)	Validation Qualifier*	Reason Code**
Wb5-6, S3C, 82517	PCB-1248	2.1	NA	2.1	J	13
Wb5-6, S3C, 82517	PCB-1254	0.99	NA	0.99	J	13
Wb5-6, S3C, 82517	PCB-1260	0.13	NA	0.13	J	13

mg/kg-milligrams per kilograms
NA-not applicable
* Validation qualifiers are defined in Attachment 1 at the end of this report
**Reason codes are defined in Attachment 2 at the end of this report

3.2 Holding Times

No holding times are listed in the referenced method for PCB analyses. The samples were extracted and analyzed within 13 days of collection. Therefore, no qualifications were applied to the data, based on professional and technical judgment.

3.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 221764). PCBs were not detected in the method blank above the MDLs.

3.4 Matrix Spike/Matrix Spike Duplicate

An MS/MSD pair was not reported.

3.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS/LCS duplicate (LCSD) pair was reported. The recovery and RPD results were within the laboratory specified acceptance criteria.

3.6 Surrogates

Acceptable surrogate recoveries were reported.

3.7 Field Duplicate

Field duplicate samples were not collected with the sample set.

3.8 Sensitivity

The samples were reported to the MDLs. No elevated non-detect results were reported.

It was noted that no NYSDEC constituent levels were listed for PCBs.

3.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The sample collection date and time were included in the sample IDs in the EDD and not included in the sample IDs in the laboratory report. No other discrepancies were identified between the level II report and the EDD.

4.0 METALS

The samples were analyzed for metals by EPA methods 3050B/6010C (Mercury evaluated separately in Section 5.0, below).

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

4.1 Overall Assessment

The metals data reported in this data set are considered usable for meeting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

4.2 Holding Times

The holding time for the metals analysis of a solid sample is 180 days from sample collection to analysis. The holding times were met for the sample analyses.

4.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 221454). The metals were not detected in the method blank above the MDLs.

4.4 Matrix Spike/Matrix Spike Duplicate

An MS/MSD pair was not reported.

4.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery results were within the laboratory specified acceptance criteria.

4.6 Laboratory Duplicate

A laboratory duplicate was not reported.

4.7 Field Duplicate

Field duplicate samples were not collected with the sample set.

4.8 Sensitivity

The samples were reported to the MDLs. No elevated non-detect results were reported.

The MDLs were at or below the NYSDEC DER10 App 5 Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010. It was noted that no NYSDEC constituent level was listed for chromium.

4.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The sample collection date and time were included in the sample IDs in the EDD and not included in the sample

IDs in the laboratory report. No other discrepancies were identified between the level II report and the EDD.

5.0 MERCURY

The samples were analyzed for mercury by EPA method 7471B.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

5.1 Overall Assessment

The mercury data reported in this data set are considered usable for meeting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

5.2 Holding Times

The holding time for the mercury analysis of solid samples is 28 days from sample collection to analysis. The holding times were met for the sample analyses.

5.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 221438). Mercury was not detected in the method blank above the MDL.

5.4 Matrix Spike/Matrix Spike Duplicate

An MS/MSD pair was not reported.

5.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery result was within the laboratory specified acceptance criteria.

5.6 Laboratory Duplicate

A laboratory duplicate was not reported.

5.7 Field Duplicate

Field duplicate samples were not collected with the sample set.

5.8 Sensitivity

The samples were reported to the MDL. No elevated non-detect results were reported.

The MDL was at or below the NYSDEC DER10 App 5 Constituent Level for Imported Fill or Soil Restricted Residential Use May 2010.

5.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The sample collection date and time were included in the sample IDs in the EDD and not included in the sample IDs in the laboratory report. No other discrepancies were identified between the level II report and the EDD.

6.0 TOTAL CYANIDE

The samples were analyzed for total cyanide by EPA Methods 9010C/9014.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

6.1 Overall Assessment

The total cyanide data reported in this data set are considered usable for meeting project objectives. The analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

6.2 Holding Times

The holding time for the total cyanide analysis of solid samples is 14 days from sample collection to analysis. The holding times were met for the sample analyses.

6.3 Method Blanks

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 221468). Cyanide was not detected in the method blank above the MDL.

6.4 Matrix Spike/Matrix Spike Duplicate

An MS/MSD pair was not reported.

6.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Three LCSs were reported. The recovery results were within the laboratory specified acceptance criteria.

6.6 Laboratory Duplicate

Laboratory duplicates were not reported.

6.7 Field Duplicate

Field duplicate samples were not collected with the sample set.

6.8 Sensitivity

The samples were reported to the MDL. No elevated non-detect results were reported.

The MDL was at or below the NYSDEC DER10 App 5 Constituent Level for Imported Fill or Soil Restricted Residential Use May 2010.

6.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The sample collection date and time were included in the sample IDs in the EDD and not included in the sample IDs in the laboratory report. No other discrepancies were identified between the level II report and the EDD.

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ATTACHMENT 1
DATA VALIDATION QUALIFIER DEFINITIONS AND INTERPRETATION KEY
Assigned by Geosyntec's Data Validation Team

DATA QUALIFIER DEFINITIONS

U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

J+ The analyte was positively identified; however, the associated numerical value is likely to be higher that the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.

J- The analyte was positively identified; however, the associated numerical value is likely to be lower that the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ATTACHMENT 2
DATA VALIDATION REASON CODES
Assigned by Geosyntec's Data Validation Team

Valid Value	Description
1	Preservation requirement not met
2	Analysis holding time exceeded
3	Blank contamination (i.e., method, trip, equipment, etc.)
4	Matrix spike/matrix spike duplicate recovery or RPD outside limits
5	LCS recovery outside limits
6	Surrogate recovery outside limits
7	Field Duplicate RPD exceeded
8	Serial dilution percent difference exceeded
9	Calibration criteria not met
10	Linear range exceeded
11	Internal standard criteria not met
12	Lab duplicates RPD exceeded
13	Other

RPD-relative percent difference

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Request to Import/Reuse Fill or Soil

This form is based on the information required by DER-10, Section 5.4(e). Use of this form is not a substitute for reading the applicable Technical Guidance document.

SECTION 1 – SITE BACKGROUND

The allowable site use is: Restricted Residential Use

Have Ecological Resources been identified? yes

Is this soil originating from the site? no

How many cubic yards of soil will be imported/reused? 800-1000

If greater than 1000 cubic yards will be imported, enter volume to be imported:

SECTION 2 – MATERIAL OTHER THAN SOIL

Is the material to be imported gravel, rock or stone? no

Does it contain less than 10%, by weight, material that would pass a size 80 sieve? yes

Is this virgin material from a permitted mine or quarry? yes

Is this material recycled concrete or brick from a DEC registered processing facility? no

SECTION 3 - SAMPLING

Provide a brief description of the number and type of samples collected in the space below:

Seven (7) Discrete Samples were collected and analyzed for VOCs. Two (2) Composite Samples were collected and analyzed for SVOCs, Inorganics, and PCBs/Pesticides. The chain of custody incorrectly shows the same Sample ID for the composite samples and the first two discrete VOC samples. The Analytical Results have been attached to this form.

Two (2) composite samples were collected and analyzed for grain size distribution and moisture-density.

Example Text: 5 discrete samples were collected and analyzed for VOCs. 2 composite samples were collected and analyzed for SVOCs, Inorganics & PCBs/Pesticides.

If the material meets requirements of DER-10 section 5.5 (other material), no chemical testing needed.

SECTION 3 CONT'D - SAMPLING

Provide a brief written summary of the sampling results or attach evaluation tables (compare to DER-10, Appendix 5):

Analytical results are compared to Restricted Residential SCO.

VOC analyses: acetone, benzene, toluene, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene and total xylenes were detected in 7 of 7 samples at levels below Restricted Residential SCOs.

There were no detections of SVOCs, PCBs, or pesticides in the two composite samples.

Metals analyses: arsenic, barium, beryllium, copper, lead manganese, nickel, zinc, and mercury were detected at levels below Restricted Residential SCOs.

Example Text: Arsenic was detected up to 17 ppm in 1 (of 5) samples; the allowable level is 16 ppm.

If Ecological Resources have been identified use the "If Ecological Resources are Present" column in Appendix 5.

SECTION 4 – SOURCE OF FILL

Name of person providing fill and relationship to the source:

Edger Enterprises

Location where fill was obtained:

Brewer's Pit located in Horseheads NY

Identification of any state or local approvals as a fill source:

NYSDEC Facility ID 8-0734-00150

If no approvals are available, provide a brief history of the use of the property that is the fill source:

Provide a list of supporting documentation included with this request:

Geotechnical Data and the Chemical Analysis Reports

The information provided on this form is accurate and complete.

	6-23-17
Signature	Date
Kyle Snyder	
Print Name	
RECON	
Firm	

TABLE 1
Request to Import/Reuse Fill or Soil - Topsoil
Former Sperry Remington Site - North Portion
Elmira, New York

Client Sample ID			NYSDEC DER10 App 5 Constituent Levels for Imported Fill or Soil Restricted Residential Use	GRAB 1					GRAB 2					GRAB 3					GRAB 4					GRAB 5				
Lab Sample ID				L923206-03					L923206-09					L923206-08					L923206-02					L923206-05				
Date Collected				07/18/2017					07/18/2017					07/18/2017					07/18/2017					07/18/2017				
Method	Analyte	Units	May 2010	Result	Qualifier	Validation n	Validation c	Reason code	Result	Qualifier	Validation n	Validation c	Reason code	Result	Qualifier	Validation n	Validation c	Reason code	Result	Qualifier	Validation n	Validation c	Reason code	Result	Qualifier	Validation n	Validation c	Reason code
8260C	ACETONE	mg/kg	**0.05**	**0.0351**	J J3			J **5**	**0.0466**	J J3			J **5**	**0.0308**	J J3			J **5**	**0.0231**	J J3			J **5**	**0.0324**	J J3			J **5**
8260C	ACRYLONITRILE	mg/kg		<0.0113					<0.0112					<0.0115					<0.0114					<0.0117				
8260C	BENZENE	mg/kg	**0.06**	**0.000591**	J				**0.0006**	J				**0.000763**	J				**0.00078**	J				**0.000497**	J			
8260C	BROMOBENZENE	mg/kg		<0.00113					<0.00112					<0.00115					<0.00114					<0.00117				
8260C	BROMODICHLOROMETHANE	mg/kg		<0.00113					<0.00112					<0.00115					<0.00114					<0.00117				
8260C	BROMOFORM	mg/kg		<0.00113	J4				<0.00112	J4				<0.00115	J4				<0.00114	J4		J	**13**	<0.00117	J4			
8260C	BROMOMETHANE	mg/kg		<0.00566					<0.00559					<0.00577					<0.00572					<0.00587				
8260C	N-BUTYLBENZENE	mg/kg	**12**	<0.00113					<0.00112					<0.00115					<0.00114					<0.00117				
8260C	SEC-BUTYLBENZENE	mg/kg	**11**	<0.00113					<0.00112					<0.00115					<0.00114					<0.00117				
8260C	TERT-BUTYLBENZENE	mg/kg	**5.9**	<0.00113					<0.00112					<0.00115					<0.00114					<0.00117				
8260C	CARBON TETRACHLORIDE	mg/kg	**0.76**	<0.00113					<0.00112					<0.00115					<0.00114					<0.00117				
8260C	CHLOROBENZENE	mg/kg	**1.1**	<0.00113					<0.00112					<0.00115					<0.00114					<0.00117				
8260C	CHLORODIBROMOMETHANE	mg/kg		<0.00113					<0.00112					<0.00115					<0.00114					<0.00117				
8260C	CHLOROETHANE	mg/kg		<0.00566					<0.00559					<0.00577					<0.00572					<0.00587				
8260C	CHLOROFORM	mg/kg	**0.37**	<0.00566					<0.00559					<0.00577					<0.00572					<0.00587				
8260C	CHLOROMETHANE	mg/kg		<0.00283					<0.0028					<0.00289					<0.00286					<0.00293				
8260C	2-CHLOROTOLUENE	mg/kg		<0.00113					<0.00112					<0.00115					<0.00114					<0.00117				
8260C	4-CHLOROTOLUENE	mg/kg		<0.00113					<0.00112					<0.00115					<0.00114					<0.00117				
8260C	1,2-DIBROMO-3-CHLOROPROPANE	mg/kg		<0.00566					<0.00559					<0.00577					<0.00572					<0.00587				
8260C	1,2-DIBROMOETHANE	mg/kg		<0.00113					<0.00112					<0.00115					<0.00114					<0.00117				
8260C	DIBROMOMETHANE	mg/kg		<0.00113					<0.00112					<0.00115					<0.00114					<0.00117				
8260C	1,2-DICHLOROBENZENE	mg/kg	**1.1**	<0.00113					<0.00112					<0.00115					<0.00114					<0.00117				
8260C	1,3-DICHLOROBENZENE	mg/kg	**2.4**	<0.00113					<0.00112					<0.00115					<0.00114					<0.00117				
8260C	1,4-DICHLOROBENZENE	mg/kg	**1.8**	<0.00113					<0.00112					<0.00115					<0.00114					<0.00117				
8260C	DICHLORODIFLUOROMETHANE	mg/kg		<0.00566					<0.00559					<0.00577					<0.00572					<0.00587				
8260C	1,1-DICHLOROETHANE	mg/kg	**0.27**	<0.00113					<0.00112					<0.00115					<0.00114					<0.00117				
8260C	1,2-DICHLOROETHANE	mg/kg	**0.02**	<0.00113					<0.00112					<0.00115					<0.00114					<0.00117				
8260C	1,1-DICHLOROETHENE	mg/kg	**0.33**	<0.00113					<0.00112					<0.00115					<0.00114					<0.00117				
8260C	CIS-1,2-DICHLOROETHENE	mg/kg	**0.25**	<0.00113					<0.00112					<0.00115					<0.00114					<0.00117				
8260C	TRANS-1,2-DICHLOROETHENE	mg/kg	**0.19**	<0.00113					<0.00112					<0.00115					<0.00114					<0.00117				
8260C	1,2-DICHLOROPROPANE	mg/kg		<0.00113					<0.00112					<0.00115					<0.00114					<0.00117				
8260C	1,1-DICHLOROPROPENE	mg/kg		<0.00113					<0.00112					<0.00115					<0.00114					<0.00117				
8260C	1,3-DICHLOROPROPANE	mg/kg		<0.00113					<0.00112					<0.00115					<0.00114					<0.00117				
8260C	CIS-1,3-DICHLOROPROPENE	mg/kg		<0.00113					<0.00112					<0.00115					<0.00114					<0.00117				
8260C	TRANS-1,3-DICHLOROPROPENE	mg/kg		<0.00113					<0.00112					<0.00115					<0.00114					<0.00117				
8260C	2,2-DICHLOROPROPANE	mg/kg		<0.00113					<0.00112					<0.00115					<0.00114					<0.00117				
8260C	DI-ISOPROPYL ETHER	mg/kg		<0.00113					<0.00112					<0.00115					<0.00114					<0.00117				
8260C	ETHYLBENZENE	mg/kg	**1**	<0.00113					<0.00112					<0.00115					<0.00114					<0.00117				
8260C	HEXACHLORO-1,3-BUTADIENE	mg/kg		<0.00113					<0.00112					<0.00115					<0.00114					<0.00117				
8260C	ISOPROPYLBENZENE	mg/kg		<0.00113					<0.00112					<0.00115					<0.00114					<0.00117				
8260C	P-ISOPROPYLTOLUENE	mg/kg		<0.00113					<0.00112					<0.00115					<0.00114					<0.00117				
8260C	METHYLENE CHLORIDE	mg/kg	**0.05**	<0.00566					<0.00559					<0.00577					<0.00572					<0.00587				
8260C	2-BUTANONE (MEK)	mg/kg	**0.12**	<0.0113					<0.0112					<0.0115					<0.0114					<0.0117				
8260C	4-METHYL-2-PENTANONE (MIBK)	mg/kg		<0.0113					<0.0112					<0.0115					<0.0114					<0.0117				
8260C	METHYL TERT-BUTYL ETHER	mg/kg	**0.93**	<0.00113					<0.00112					<0.00115					<0.00114					<0.00117				
8260C	NAPHTHALENE	mg/kg	**12**	<0.00566					<0.00559					<0.00577					<0.00572					<0.00587				
8260C	N-PROPYLBENZENE	mg/kg	**3.9**	<0.00113					<0.00112					<0.00115					<0.00114					<0.00117				
8260C	STYRENE	mg/kg		<0.00113					<0.00112					<0.00115					<0.00114					<0.00117				
8260C	1,1,1,2-TETRACHLOROETHANE	mg/kg		<0.00113					<0.00112					<0.00115					<0.00114					<0.00117				
8260C	1,1,2,2-TETRACHLOROETHANE	mg/kg		<0.00113					<0.00112					<0.00115					<0.00114					<0.00117				
8260C	1,1,2-TRICHLOROTRIFLUOROETHANE	mg/kg		<0.00113					<0.00112					<0.00115					<0.00114					<0.00117				
8260C	TETRACHLOROETHENE	mg/kg	**1.3**	<0.00113					<0.00112					<0.00115					<0.00114					<0.00117				
8260C	TOLUENE	mg/kg	**0.7**	**0.00279**	J				**0.00196**	J				**0.00277**	J				**0.00367**	J				**0.00254**	J			
8260C	1,2,3-TRICHLOROBENZENE	mg/kg		<0.00113					<0.00112					<0.00115					<0.00114					<0.00117				
8260C	1,2,4-TRICHLOROBENZENE	mg/kg		<0.00113					<0.00112					<0.00115					<0.00114					<0.00117				
8260C	1,1,1-TRICHLOROETHANE	mg/kg	**0.68**	<0.00113					<0.00112					<0.00115					<0.00114					<0.00117				
8260C	1,1,2-TRICHLOROETHANE	mg/kg		<0.00113					<0.00112					<0.00115					<0.00114					<0.00117				
8260C	TRICHLOROETHENE	mg/kg	**0.47**	<0.00113					<0.00112					<0.00115					<0.00114					<0.00115				
8260C	TRICHLOROFLUOROMETHANE	mg/kg		<0.00566					<0.00559					<0.00577					<0.00572					<0.00587				
8260C	1,2,3-TRICHLOROPROPANE	mg/kg		<0.00283					<0.0028					<0.00289					<0.00286					<0.00293				
8260C	1,2,4-TRIMETHYLBENZENE	mg/kg	**3.6**	<0.00113					<0.00112					<0.00115					<0.00114					<0.00117				
8260C	1,2,3-TRIMETHYLBENZENE	mg/kg		<0.00113					<0.00112					<0.00115					<0.00114					<0.00117				
8260C	VINYL CHLORIDE	mg/kg	**0.02**	<0.00113					<0.00112					<0.00115					<0.00114					<0.00117				
8260C	1,3,5-TRIMETHYLBENZENE	mg/kg	**8.4**	<0.00113					<0.00112					<0.00115					<0.00114					<0.00117				
8260C	XYLENES, TOTAL	mg/kg	**1.6**	**0.000834**	J				<0.00336					<0.00346					**0.0011**	J				<0.00352				

Lab Qualifiers:J: The identification of the analyte is acceptable; the reported value is an estimate.J0: J0: Calibration verification outside of acceptance limits. Result is estimated.J3: The associated batch QC was outside the established quality control range for precision.J4: The associated batch QC was outside the established quality control range for accuracyJ5: The sample matrix interfered with the ability to make any accurate determination; spike value is highJ6: The sample matrix interfered with the ability to make any accurate determination; spike value is low

VALIDATION QUALIFIER DEFINITIONS

U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J	The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
J+	The analyte was positively identified; however, the associated numerical value is likely to be higher that the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.
J-	The analyte was positively identified; however, the associated numerical value is likely to be lower that the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.
UJ	The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte
R	The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

TABLE 1
Request to Import/Reuse Fill or Soil - Topsoil
Former Sperry Remington Site - North Portion
Elmira, New York

Client Sample ID			NYSDEC DER10 App 5 Constituent Levels for Imported Fill or Soil Restricted Residential Use	GRAB 6					GRAB 7					DUP 1					
Lab Sample ID				L923206-04					L923206-07					L923206-06					
Date Collected				07/18/2017					07/18/2017					07/18/2017					
Method	Analyte	Units	May 2010	Result	Qualifier	Validation n	Validation c	Reason code	Result	Qualifier	Validation n	Validation c	Reason code	Result	Qualifier	Validation n	Validation c	Reason code	Validation date
8260C	ACETONE	mg/kg	**0.05**	**0.0356**	J J3		J	**5**	**0.0386**	J J5		J	4, 5	**0.0254**	J J3		J	**5**	**8/2/2017**
8260C	ACRYLONITRILE	mg/kg		<0.0113					<0.0117					<0.011					**8/2/2017**
8260C	BENZENE	mg/kg	**0.06**	**0.000574**	J				**0.000458**	J				**0.00066**	J				**8/2/2017**
8260C	BROMOBENZENE	mg/kg		<0.00113					<0.00117	R				<0.0011					**8/2/2017**
8260C	BROMODICHLOROMETHANE	mg/kg		<0.00113					<0.00117					<0.0011					**8/2/2017**
8260C	BROMOFORM	mg/kg		<0.00113	J4				<0.00117	J4				<0.0011	J4				**8/2/2017**
8260C	BROMOMETHANE	mg/kg		<0.00566					<0.00585					<0.00552					**8/2/2017**
8260C	N-BUTYLBENZENE	mg/kg	**12**	<0.00113					<0.00117			R	**4**	<0.0011					**8/2/2017**
8260C	SEC-BUTYLBENZENE	mg/kg	**11**	<0.00113					<0.00117					<0.0011					**8/2/2017**
8260C	TERT-BUTYLBENZENE	mg/kg	**5.9**	<0.00113					<0.00117					<0.0011					**8/2/2017**
8260C	CARBON TETRACHLORIDE	mg/kg	**0.76**	<0.00113					<0.00117					<0.0011					**8/2/2017**
8260C	CHLOROBENZENE	mg/kg	**1.1**	<0.00113					<0.00117					<0.0011					**8/2/2017**
8260C	CHLORODIBROMOMETHANE	mg/kg		<0.00113					<0.00117					<0.0011					**8/2/2017**
8260C	CHLOROETHANE	mg/kg		<0.00566					<0.00585					<0.00552					**8/2/2017**
8260C	CHLOROFORM	mg/kg	**0.37**	<0.00566					<0.00585					<0.00552					**8/2/2017**
8260C	CHLOROMETHANE	mg/kg		<0.00283					<0.00293					<0.00276					**8/2/2017**
8260C	2-CHLOROTOLUENE	mg/kg		<0.00113					<0.00117			R	**4**	<0.0011					**8/2/2017**
8260C	4-CHLOROTOLUENE	mg/kg		<0.00113					<0.00117			R	**4**	<0.0011					**8/2/2017**
8260C	1,2-DIBROMO-3-CHLOROPROPANE	mg/kg		<0.00566					<0.00585					<0.00552					**8/2/2017**
8260C	1,2-DIBROMOETHANE	mg/kg		<0.00113					<0.00117					<0.0011					**8/2/2017**
8260C	DIBROMOMETHANE	mg/kg		<0.00113					<0.00117					<0.0011					**8/2/2017**
8260C	1,2-DICHLOROBENZENE	mg/kg	**1.1**	<0.00113					<0.00117			R	**4**	<0.0011					**8/2/2017**
8260C	1,3-DICHLOROBENZENE	mg/kg	**2.4**	<0.00113					<0.00117	J3		R	**4**	<0.0011					**8/2/2017**
8260C	1,4-DICHLOROBENZENE	mg/kg	**1.8**	<0.00113					<0.00117			R	**4**	<0.0011					**8/2/2017**
8260C	DICHLORODIFLUOROMETHANE	mg/kg		<0.00566					<0.00585					<0.00552					**8/2/2017**
8260C	1,1-DICHLOROETHANE	mg/kg	**0.27**	<0.00113					<0.00117					<0.0011					**8/2/2017**
8260C	1,2-DICHLOROETHANE	mg/kg	**0.02**	<0.00113					<0.00117					<0.0011					**8/2/2017**
8260C	1,1-DICHLOROETHENE	mg/kg	**0.33**	<0.00113					<0.00117					<0.0011					**8/2/2017**
8260C	CIS-1,2-DICHLOROETHENE	mg/kg	**0.25**	<0.00113					<0.00117					<0.0011					**8/2/2017**
8260C	TRANS-1,2-DICHLOROETHENE	mg/kg	**0.19**	<0.00113					<0.00117					<0.0011					**8/2/2017**
8260C	1,2-DICHLOROPROPANE	mg/kg		<0.00113					<0.00117					<0.0011					**8/2/2017**
8260C	1,1-DICHLOROPROPENE	mg/kg		<0.00113					<0.00117					<0.0011					**8/2/2017**
8260C	1,3-DICHLOROPROPANE	mg/kg		<0.00113					<0.00117					<0.0011					**8/2/2017**
8260C	CIS-1,3-DICHLOROPROPENE	mg/kg		<0.00113					<0.00117					<0.0011					**8/2/2017**
8260C	TRANS-1,3-DICHLOROPROPENE	mg/kg		<0.00113					<0.00117					<0.0011					**8/2/2017**
8260C	2,2-DICHLOROPROPANE	mg/kg		<0.00113					<0.00117					<0.0011					**8/2/2017**
8260C	DI-ISOPROPYL ETHER	mg/kg		<0.00113					<0.00117					<0.0011					**8/2/2017**
8260C	ETHYLBENZENE	mg/kg	**1**	<0.00113					<0.00117					<0.0011					**8/2/2017**
8260C	HEXACHLORO-1,3-BUTADIENE	mg/kg		<0.00113					<0.00117			R	**4**	<0.0011					**8/2/2017**
8260C	ISOPROPYLBENZENE	mg/kg		<0.00113					<0.00117					<0.0011					**8/2/2017**
8260C	P-ISOPROPYLTOLUENE	mg/kg		**0.00033**	J				<0.00117					<0.0011					**8/2/2017**
8260C	2-BUTANONE (MEK)	mg/kg	**0.12**	<0.0113					<0.0117					<0.011					**8/2/2017**
8260C	METHYLENE CHLORIDE	mg/kg	**0.05**	<0.00566					<0.00585					<0.00552					**8/2/2017**
8260C	4-METHYL-2-PENTANONE (MIBK)	mg/kg		<0.0113					<0.0117					<0.011					**8/2/2017**
8260C	METHYL TERT-BUTYL ETHER	mg/kg	**0.93**	<0.00113					<0.00117					<0.0011					**8/2/2017**
8260C	NAPHTHALENE	mg/kg	**12**	<0.00566					<0.00585	J6		R	**4**	<0.00552					**8/2/2017**
8260C	N-PROPYLBENZENE	mg/kg	**3.9**	<0.00113					<0.00117					<0.0011					**8/2/2017**
8260C	STYRENE	mg/kg		<0.00113					<0.00117	J3 J6		R	**4**	<0.0011					**8/2/2017**
8260C	1,1,1,2-TETRACHLOROETHANE	mg/kg		<0.00113					<0.00117					<0.0011					**8/2/2017**
8260C	1,1,2,2-TETRACHLOROETHANE	mg/kg		<0.00113					<0.00117					<0.0011					**8/2/2017**
8260C	1,1,2-TRICHLOROTRIFLUOROETHANE	mg/kg		<0.00113					<0.00117					<0.0011					**8/2/2017**
8260C	TETRACHLOROETHENE	mg/kg	**1.3**	<0.00113					<0.00117					<0.0011					**8/2/2017**
8260C	TOLUENE	mg/kg	**0.7**	**0.00202**	J				**0.00228**	J				**0.003**	J				**8/2/2017**
8260C	1,2,3-TRICHLOROBENZENE	mg/kg		<0.00113					<0.00117	J6		R	**4**	<0.0011					**8/2/2017**
8260C	1,2,4-TRICHLOROBENZENE	mg/kg		<0.00113					<0.00117	J6		R	**4**	<0.0011					**8/2/2017**
8260C	1,1,1-TRICHLOROETHANE	mg/kg	**0.68**	<0.00113					<0.00117					<0.0011					**8/2/2017**
8260C	1,1,2-TRICHLOROETHANE	mg/kg		<0.00113					<0.00117					<0.0011					**8/2/2017**
8260C	TRICHLOROETHENE	mg/kg	**0.47**	<0.00113					<0.00117					<0.0011					**8/2/2017**
8260C	TRICHLOROFLUOROMETHANE	mg/kg		<0.00566					<0.00585					<0.00552					**8/2/2017**
8260C	1,2,3-TRICHLOROPROPANE	mg/kg		<0.00283					<0.00293					<0.00276					**8/2/2017**
8260C	1,2,4-TRIMETHYLBENZENE	mg/kg	**3.6**	<0.00113					<0.00117	R				<0.0011					**8/2/2017**
8260C	1,2,3-TRIMETHYLBENZENE	mg/kg		<0.00113					<0.00117					<0.0011					**8/2/2017**
8260C	VINYL CHLORIDE	mg/kg	**0.02**	<0.00113					<0.00117					<0.0011					**8/2/2017**
8260C	1,3,5-TRIMETHYLBENZENE	mg/kg	**8.4**	<0.00113					<0.00117	R				<0.0011					**8/2/2017**
8260C	XYLENES, TOTAL	mg/kg	**1.6**	<0.0034					<0.00351					**0.000794**	J				**8/2/2017**

Lab Qualifiers:J: The identification of the analyte is acceptable; the reported value is an estimate.J0: J0: Calibration verification outside of acceptance limits. Result is estimated.J3: The associated batch QC was outside the established quality control range for precision.J4: The associated batch QC was outside the established quality control range for accuracy.J5: The sample matrix interfered with the ability to make any accurate determination; spike value is highJ6: The sample matrix interfered with the ability to make any accurate determination; spike value is low

VALIDATION QUALIFIER DEFINITIONS

U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

J+ The analyte was positively identified; however, the associated numerical value is likely to be higher that the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.

J- The analyte was positively identified; however, the associated numerical value is likely to be lower that the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.

UJ The analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

TABLE 1
Request to Import/Reuse Fill or Soil - Topsoil
Former Sperry Remington Site - North Portion
Elmira, New York

Client Sample ID			NYSDEC DER10 App 5 Constituent Levels for Imported Fill or Soil Restricted Residential	COMPOSITE 1					COMPOSITE 2					DUP 2				
Lab Sample ID				L923206-10					L923206-01					L923206-11				
Date Collected				07/18/2017					07/18/2017					07/18/2017				
Method	Analyte	Units	Use May 2010	Result	Qualifier	Validation result	Validation qualifier	Reason code	Result	Qualifier	Validation result	Validation qualifier	Reason code	Result	Qualifier	Validation result	Validation qualifier	Reason code
2540 G-2011	TOTAL SOLIDS	%		89.4					88.1					89.3				
3060A/7196A	CHROMIUM,HEXAVALENT	mg/kg	19	1.57	J				1.41	J J6				1.08	J			
6010B	ARSENIC	mg/kg	16	5.78					5.59					5.76				
6010B	BARIUM	mg/kg	400	67.3					71.4					67.8				
6010B	BERYLLIUM	mg/kg	47	0.443					0.426					0.42				
6010B	CADMIUM	mg/kg	4.3	0.163	J				0.177	J				0.182	J			
6010B	CHROMIUM	mg/kg		12.4					11.9					12.1				
6010B	COPPER	mg/kg	270	20.7					21.9					18.7				
6010B	LEAD	mg/kg	400	17.6					20.4					15.9				
6010B	MANGANESE	mg/kg	2000	435					388	J5		J+	4	402				
6010B	NICKEL	mg/kg	130	20.4					19.5					19.9				
6010B	SILVER	mg/kg	8.3	<1.12					<1.14					<1.12				
6010B	ZINC	mg/kg	2480	61.7					62.3					57.8				
7471A	MERCURY	mg/kg	0.73	0.0178	J				0.0219	J				0.0178	J			
9012B	CYANIDE	mg/kg	27	<0.28					0.0505	J J6		J-	4	<0.28				
Calc.	CHROMIUM,TRIVALENT	mg/kg	180	10.9					10.5					11				
8081	ALDRIN	mg/kg	0.097	<0.0224					<0.0227					<0.0224				
8081	ALPHA BHC	mg/kg	0.02	<0.0224					<0.0227					<0.0224				
8081	BETA BHC	mg/kg	0.09	<0.0224					<0.0227					<0.0224				
8081	DELTA BHC	mg/kg	0.25	<0.0224					<0.0227					<0.0224				
8081	GAMMA BHC	mg/kg	0.1	<0.0224					<0.0227					<0.0224				
8081	CHLORDANE	mg/kg		<0.224					<0.227					<0.224				
8081	4,4-DDD	mg/kg	13	<0.0224					<0.0227					<0.0224				
8081	4,4-DDE	mg/kg	8.9	<0.0224					<0.0227					<0.0224				
8081	4,4-DDT	mg/kg	7.9	<0.0224					<0.0227					<0.0224				
8081	DIELDRIN	mg/kg	0.1	<0.0224					<0.0227					<0.0224				
8081	ENDOSULFAN I	mg/kg	24	<0.0224					<0.0227					<0.0224				
8081	ENDOSULFAN II	mg/kg	24	<0.0224					<0.0227					<0.0224				
8081	ENDOSULFAN SULFATE	mg/kg	24	<0.0224					<0.0227					<0.0224				
8081	ENDRIN	mg/kg	0.06	<0.0224					<0.0227					<0.0224				
8081	ENDRIN ALDEHYDE	mg/kg		<0.0224					<0.0227					<0.0224				
8081	ENDRIN KETONE	mg/kg		<0.0224					<0.0227					<0.0224				
8081	HEPTACHLOR	mg/kg	0.38	<0.0224					<0.0227					<0.0224				
8081	HEPTACHLOR EPOXIDE	mg/kg		0.00183	J				<0.0227					0.00206	J			
8081	HEXACHLOROBENZENE	mg/kg	1.2	<0.0224					<0.0227					<0.0224				
8081	METHOXYCHLOR	mg/kg		<0.0224					<0.0227					<0.0224				
8081	TOXAPHENE	mg/kg		<0.448					<0.454					<0.448				
8082	PCB 1016	mg/kg		<0.019					<0.0193					<0.019				
8082	PCB 1221	mg/kg		<0.019					<0.0193					<0.019				
8082	PCB 1232	mg/kg		<0.019					<0.0193					<0.019				
8082	PCB 1242	mg/kg		<0.019					<0.0193					<0.019				
8082	PCB 1248	mg/kg		<0.019					<0.0193					<0.019				
8082	PCB 1254	mg/kg		<0.019					<0.0193					<0.019				
8082	PCB 1260	mg/kg		<0.019					<0.0193					<0.019				
8270D	ACENAPHTHENE	mg/kg	98	<0.0369					<0.0375					<0.037				
8270D	ACENAPHTHYLENE	mg/kg	100	0.00903	J				<0.0375					<0.037				
8270D	ANTHRACENE	mg/kg	100	0.00763	J				<0.0375					0.0105	J			
8270D	BENZIDINE	mg/kg		<0.373					<0.378	J6		R	4	<0.373				
8270D	BENZO(A)ANTHRACENE	mg/kg	1	0.0567					0.0323	J J3		J	4	0.0573				
8270D	BENZO(B)FLUORANTHENE	mg/kg	1	0.0825					0.0347	J				0.0708				
8270D	BENZO(K)FLUORANTHENE	mg/kg	1.7	0.0275	J				0.0154	J				0.0221	J			
8270D	BENZO(G,H,I)PERYLENE	mg/kg	100	0.0361	J				0.0169	J				0.026	J			
8270D	BENZO(A)PYRENE	mg/kg	1	0.0585					0.0277	J				0.0522				
8270D	BIS(2-CHLORETHOXY)METHANE	mg/kg		<0.373					<0.378					<0.373				
8270D	BIS(2-CHLOROETHYL)ETHER	mg/kg		<0.373	J3				<0.378					<0.373	J3			
8270D	BIS(2-CHLOROISOPROPYL)ETHER	mg/kg		<0.373	J3				<0.378					<0.373	J3			
8270D	4-BROMOPHENYL-PHENYLETHER	mg/kg		<0.373					<0.378					<0.373				
8270D	2-CHLORONAPHTHALENE	mg/kg		<0.0369	J3				<0.0375					<0.037	J3			
8270D	4-CHLOROPHENYL-PHENYLETHER	mg/kg		<0.373					<0.378					<0.373				
8270D	CHRYSENE	mg/kg	1	0.0646					0.0317	J J3		J	4	0.0598				
8270D	DIBENZ(A,H)ANTHRACENE	mg/kg	0.33	0.011	J				<0.0375					<0.037				
8270D	3,3-DICHLOROBENZIDINE	mg/kg		<0.373					<0.378					<0.373				
8270D	2,4-DINITROTOLUENE	mg/kg		<0.373					<0.378					<0.373				
8270D	2,6-DINITROTOLUENE	mg/kg		<0.373					<0.378					<0.373				
8270D	FLUORANTHENE	mg/kg	100	0.0994					0.0543	J3		J	4	0.108				
8270D	FLUORENE	mg/kg	100	<0.0369					<0.0375					<0.037				
8270D	HEXACHLOROBENZENE	mg/kg	1.2	<0.373					<0.378					<0.373				
8270D	HEXACHLORO-1,3-BUTADIENE	mg/kg		<0.373	J3				<0.378					<0.373	J3			
8270D	HEXACHLOROCYCLOPENTADIENE	mg/kg		<0.373	J0 J3		UJ	9	<0.378	J0		UJ	9	<0.373	J0 J3		UJ	9
8270D	HEXACHLOROETHANE	mg/kg		<0.373	J3				<0.378					<0.373	J3			
8270D	INDENO(1,2,3-CD)PYRENE	mg/kg	0.5	0.0357	J				0.015	J				0.0241	J			
8270D	ISOPHORONE	mg/kg		<0.373					<0.378					<0.373				
8270D	NAPHTHALENE	mg/kg	12	<0.0369	J3				<0.0375					<0.037	J3			
8270D	NITROBENZENE	mg/kg		<0.373	J3				<0.378					<0.373	J3			
8270D	N-NITROSODIMETHYLAMINE	mg/kg		<0.373					<0.378					<0.373				
8270D	N-NITROSODIPHENYLAMINE	mg/kg		<0.373					<0.378					<0.373				
8270D	N-NITROSODI-N-PROPYLAMINE	mg/kg		<0.373	J3				<0.378					<0.373	J3			
8270D	PHENANTHRENE	mg/kg	100	0.0428					0.0234	J J3		J	4	0.0511				
8270D	BENZYLBUTYL PHTHALATE	mg/kg		<0.373					<0.378					<0.373				
8270D	BIS(2-ETHYLHEXYL)PHTHALATE	mg/kg		0.0149	J				0.0159	J				0.0188	J			
8270D	DI-N-BUTYL PHTHALATE	mg/kg		<0.373					<0.378					<0.373				
8270D	DIETHYL PHTHALATE	mg/kg		<0.373					<0.378					<0.373				
8270D	DIMETHYL PHTHALATE	mg/kg		<0.373					<0.378					<0.373				
8270D	DI-N-OCTYL PHTHALATE	mg/kg		<0.373					<0.378					<0.373				
8270D	PYRENE	mg/kg	100	0.0816					0.0456	J3		J	4	0.0863				
8270D	1,2,4-TRICHLOROBENZENE	mg/kg		<0.373	J3				<0.378					<0.373	J3			
8270D	4-CHLORO-3-METHYLPHENOL	mg/kg		<0.373					<0.378					<0.373				
8270D	2-CHLOROPHENOL	mg/kg		<0.373	J3				<0.378					<0.373	J3			
8270D	2,4-DICHLOROPHENOL	mg/kg		<0.373					<0.378					<0.373				
8270D	2,4-DIMETHYLPHENOL	mg/kg		<0.373					<0.378					<0.373				
8270D	4,6-DINITRO-2-METHYLPHENOL	mg/kg		<0.373					<0.378					<0.373				
8270D	2,4-DINITROPHENOL	mg/kg		<0.373					<0.378					<0.373				
8270D	2-NITROPHENOL	mg/kg		<0.373	J3				<0.378					<0.373	J3			
8270D	4-NITROPHENOL	mg/kg		<0.373					<0.378					<0.373				
8270D	PENTACHLOROPHENOL	mg/kg	0.8	<0.373					<0.378					<0.373				
8270D	PHENOL	mg/kg	0.33	<0.373	J3				<0.378					<0.373	J3			
8270D	2,4,6-TRICHLOROPHENOL	mg/kg		<0.373					<0.378					<0.373				

Lab Qualifiers:J: The identification of the analyte is acceptable; the reported value is an estimate.J0: J0: Calibration verification outside of acceptance limits. Result is estimated.J3: The associated batch QC was outside the established quality control range for precision.J4: The associated batch QC was outside the established quality control range for accuracyJ5: The sample matrix interfered with the ability to make any accurate determination; spike value is highJ6: The sample matrix interfered with the ability to make any accurate determination; spike value is low

VALIDATION QUALIFIER DEFINITIONS

U□ The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J □ The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

J+□ The analyte was positively identified; however, the associated numerical value is likely to be higher that the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.

J-□ The analyte was positively identified; however, the associated numerical value is likely to be lower that the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.

UJ□ The analyte was not detected above the in the sample.

R□ The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ANALYTICAL REPORT

July 28, 2017

Remedial Construction Services, L.P.

Sample Delivery Group:	L923206
Samples Received:	07/19/2017
Project Number:	23925
Description:	Elmira, NY

Report To:

Mr. John Geary
950 West Valley Rd.
Suite 2802
Wayne, PA 19087

Entire Report Reviewed By:

T. Alan Harvill
Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



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COMPOSITE 2 L923206-01 Solid

Collected by: Alex Ambrosino | Collected date/time: 07/18/17 14:30 | Received date/time: 07/19/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Calculated Results	WG1002245	1	07/25/17 18:30	07/26/17 15:19	CCE
Total Solids by Method 2540 G-2011	WG1000516	1	07/19/17 15:13	07/19/17 15:23	KDW
Wet Chemistry by Method 3060A/7196A	WG1000857	1	07/21/17 08:49	07/21/17 15:07	MA
Wet Chemistry by Method 9012B	WG1001620	1	07/24/17 06:55	07/24/17 21:53	ASK
Mercury by Method 7471A	WG1000398	1	07/19/17 12:59	07/20/17 09:24	EL
Metals (ICP) by Method 6010B	WG1002245	1	07/25/17 18:30	07/26/17 15:19	CCE
Pesticides (GC) by Method 8081	WG1000657	1	07/21/17 13:37	07/24/17 17:21	VKS
Polychlorinated Biphenyls (GC) by Method 8082	WG1000657	1	07/21/17 13:37	07/24/17 15:36	JNS
Semi Volatile Organic Compounds (GC/MS) by Method 8270D	WG1002043	1	07/23/17 19:20	07/24/17 12:02	KMP

GRAB 4 L923206-02 Solid

Collected by: Alex Ambrosino | Collected date/time: 07/18/17 13:45 | Received date/time: 07/19/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1000516	1	07/19/17 15:13	07/19/17 15:23	KDW
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1000613	1	07/18/17 13:45	07/20/17 05:31	JAH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1000613	1	07/18/17 13:45	07/20/17 17:50	LRL

GRAB 1 L923206-03 Solid

Collected by: Alex Ambrosino | Collected date/time: 07/18/17 13:10 | Received date/time: 07/19/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1000516	1	07/19/17 15:13	07/19/17 15:23	KDW
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1000613	1	07/18/17 13:10	07/20/17 05:51	JAH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1000613	1	07/18/17 13:10	07/20/17 18:10	LRL

GRAB 6 L923206-04 Solid

Collected by: Alex Ambrosino | Collected date/time: 07/18/17 14:00 | Received date/time: 07/19/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1000516	1	07/19/17 15:13	07/19/17 15:23	KDW
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1000613	1	07/18/17 14:00	07/20/17 06:11	JAH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1000613	1	07/18/17 14:00	07/20/17 18:30	LRL

GRAB 5 L923206-05 Solid

Collected by: Alex Ambrosino | Collected date/time: 07/18/17 13:50 | Received date/time: 07/19/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1000518	1	07/19/17 14:54	07/19/17 15:11	KDW
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1000613	1	07/18/17 13:50	07/20/17 18:50	LRL
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1000613	1.02	07/18/17 13:50	07/20/17 06:31	JAH

DUP 1 L923206-06 Solid

Collected by: Alex Ambrosino | Collected date/time: 07/18/17 00:00 | Received date/time: 07/19/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1000518	1	07/19/17 14:54	07/19/17 15:11	KDW
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1000613	1	07/18/17 00:00	07/20/17 06:51	JAH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1000613	1	07/18/17 00:00	07/20/17 19:10	LRL

GRAB 7 L923206-07 Solid

Collected by: Alex Ambrosino
Collected date/time: 07/18/17 14:10
Received date/time: 07/19/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1000518	1	07/19/17 14:54	07/19/17 15:11	KDW
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1000613	1	07/18/17 14:10	07/20/17 07:11	JAH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1000613	1	07/18/17 14:10	07/20/17 19:31	LRL

GRAB 3 L923206-08 Solid

Collected by: Alex Ambrosino
Collected date/time: 07/18/17 13:35
Received date/time: 07/19/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1000518	1	07/19/17 14:54	07/19/17 15:11	KDW
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1000613	1	07/18/17 13:35	07/20/17 07:32	JAH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1000613	1	07/18/17 13:35	07/20/17 19:51	LRL

GRAB 2 L923206-09 Solid

Collected by: Alex Ambrosino
Collected date/time: 07/18/17 13:25
Received date/time: 07/19/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1000518	1	07/19/17 14:54	07/19/17 15:11	KDW
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1000613	1	07/18/17 13:25	07/20/17 07:52	JAH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1000613	1	07/18/17 13:25	07/20/17 20:11	LRL

COMPOSITE 1 L923206-10 Solid

Collected by: Alex Ambrosino
Collected date/time: 07/18/17 14:20
Received date/time: 07/19/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Calculated Results	WG1002245	1	07/25/17 18:30	07/26/17 15:31	CCE
Total Solids by Method 2540 G-2011	WG1000518	1	07/19/17 14:54	07/19/17 15:11	KDW
Wet Chemistry by Method 3060A/7196A	WG1000369	1	07/21/17 08:35	07/21/17 14:36	MA
Wet Chemistry by Method 9012B	WG1001620	1	07/24/17 06:55	07/24/17 21:29	ASK
Mercury by Method 7471A	WG1000398	1	07/19/17 12:59	07/20/17 09:54	EL
Metals (ICP) by Method 6010B	WG1002245	1	07/25/17 18:30	07/26/17 15:31	CCE
Pesticides (GC) by Method 8081	WG1000657	1	07/21/17 13:37	07/24/17 17:59	VKS
Polychlorinated Biphenyls (GC) by Method 8082	WG1000657	1	07/21/17 13:37	07/24/17 16:14	JNS
Semi Volatile Organic Compounds (GC/MS) by Method 8270D	WG1002043	1	07/23/17 19:20	07/24/17 13:13	KMP

DUP 2 L923206-11 Solid

Collected by: Alex Ambrosino
Collected date/time: 07/18/17 00:00
Received date/time: 07/19/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Calculated Results	WG1002245	1	07/25/17 18:30	07/26/17 15:42	CCE
Total Solids by Method 2540 G-2011	WG1000518	1	07/19/17 14:54	07/19/17 15:11	KDW
Wet Chemistry by Method 3060A/7196A	WG1000369	1	07/21/17 08:35	07/21/17 14:36	MA
Wet Chemistry by Method 9012B	WG1001620	1	07/24/17 06:55	07/24/17 21:30	ASK
Mercury by Method 7471A	WG1000398	1	07/19/17 12:59	07/20/17 09:57	EL
Metals (ICP) by Method 6010B	WG1002245	1	07/25/17 18:30	07/26/17 15:42	CCE
Pesticides (GC) by Method 8081	WG1000657	1	07/21/17 13:37	07/24/17 18:12	VKS
Polychlorinated Biphenyls (GC) by Method 8082	WG1000657	1	07/21/17 13:37	07/24/17 16:26	JNS
Semi Volatile Organic Compounds (GC/MS) by Method 8270D	WG1002043	1	07/23/17 19:20	07/24/17 13:37	KMP

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. All MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



T. Alan Harvill
Technical Service Representative

Calculated Results

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chromium,Trivalent	10.5		0.159	1.14	1	07/26/2017 15:19	WG1002245

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	88.1		1	07/19/2017 15:23	WG1000516

Wet Chemistry by Method 3060A/7196A

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chromium,Hexavalent	1.41	J J6	0.727	2.27	1	07/21/2017 15:07	WG1000857

Sample Narrative:

L923206-01 WG1000857: sample is reducer

Wet Chemistry by Method 9012B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Cyanide	0.0505	J J6	0.0443	0.284	1	07/24/2017 21:53	WG1001620

Mercury by Method 7471A

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Mercury	0.0219	J	0.00318	0.0227	1	07/20/2017 09:24	WG1000398

Metals (ICP) by Method 6010B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Arsenic	5.59		0.738	2.27	1	07/26/2017 15:19	WG1002245
Barium	71.4		0.193	0.568	1	07/26/2017 15:19	WG1002245
Beryllium	0.426		0.0795	0.227	1	07/26/2017 15:19	WG1002245
Cadmium	0.177	J	0.0795	0.568	1	07/26/2017 15:19	WG1002245
Chromium	11.9		0.159	1.14	1	07/26/2017 15:19	WG1002245
Copper	21.9		0.602	2.27	1	07/26/2017 15:19	WG1002245
Lead	20.4		0.216	0.568	1	07/26/2017 15:19	WG1002245
Manganese	388	J5	0.136	1.14	1	07/26/2017 15:19	WG1002245
Nickel	19.5		0.556	2.27	1	07/26/2017 15:19	WG1002245
Silver	U		0.318	1.14	1	07/26/2017 15:19	WG1002245
Zinc	62.3		0.670	5.68	1	07/26/2017 15:19	WG1002245

Pesticides (GC) by Method 8081

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Aldrin	U		0.00153	0.0227	1	07/24/2017 17:21	WG1000657
Alpha BHC	U		0.00154	0.0227	1	07/24/2017 17:21	WG1000657
Beta BHC	U		0.00182	0.0227	1	07/24/2017 17:21	WG1000657
Delta BHC	U		0.00162	0.0227	1	07/24/2017 17:21	WG1000657
Gamma BHC	U		0.00165	0.0227	1	07/24/2017 17:21	WG1000657
Chlordane	U		0.0443	0.227	1	07/24/2017 17:21	WG1000657
4,4-DDD	U		0.00177	0.0227	1	07/24/2017 17:21	WG1000657
4,4-DDE	U		0.00175	0.0227	1	07/24/2017 17:21	WG1000657
4,4-DDT	U		0.00227	0.0227	1	07/24/2017 17:21	WG1000657
Dieldrin	U		0.00173	0.0227	1	07/24/2017 17:21	WG1000657

Pesticides (GC) by Method 8081

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Endosulfan I	U		0.00169	0.0227	1	07/24/2017 17:21	WG1000657
Endosulfan II	U		0.00182	0.0227	1	07/24/2017 17:21	WG1000657
Endosulfan sulfate	U		0.00171	0.0227	1	07/24/2017 17:21	WG1000657
Endrin	U		0.00178	0.0227	1	07/24/2017 17:21	WG1000657
Endrin aldehyde	U		0.00146	0.0227	1	07/24/2017 17:21	WG1000657
Endrin ketone	U		0.00187	0.0227	1	07/24/2017 17:21	WG1000657
Heptachlor	U		0.00175	0.0227	1	07/24/2017 17:21	WG1000657
Heptachlor epoxide	U		0.00183	0.0227	1	07/24/2017 17:21	WG1000657
Hexachlorobenzene	U		0.00141	0.0227	1	07/24/2017 17:21	WG1000657
Methoxychlor	U		0.00202	0.0227	1	07/24/2017 17:21	WG1000657
Toxaphene	U		0.0409	0.454	1	07/24/2017 17:21	WG1000657
(S) Decachlorobiphenyl	*74.4*			*10.0-148*		*07/24/2017 17:21*	WG1000657
(S) Tetrachloro-m-xylene	*75.5*			*21.0-146*		*07/24/2017 17:21*	WG1000657

Polychlorinated Biphenyls (GC) by Method 8082

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
PCB 1016	U		0.00397	0.0193	1	07/24/2017 15:36	WG1000657
PCB 1221	U		0.00610	0.0193	1	07/24/2017 15:36	WG1000657
PCB 1232	U		0.00473	0.0193	1	07/24/2017 15:36	WG1000657
PCB 1242	U		0.00361	0.0193	1	07/24/2017 15:36	WG1000657
PCB 1248	U		0.00358	0.0193	1	07/24/2017 15:36	WG1000657
PCB 1254	U		0.00536	0.0193	1	07/24/2017 15:36	WG1000657
PCB 1260	U		0.00561	0.0193	1	07/24/2017 15:36	WG1000657
(S) Decachlorobiphenyl	*90.5*			*10.0-148*		*07/24/2017 15:36*	WG1000657
(S) Tetrachloro-m-xylene	*92.2*			*21.0-146*		*07/24/2017 15:36*	WG1000657

Semi Volatile Organic Compounds (GC/MS) by Method 8270D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	U		0.00729	0.0375	1	07/24/2017 12:02	WG1002043
Acenaphthylene	U		0.00762	0.0375	1	07/24/2017 12:02	WG1002043
Anthracene	U		0.00718	0.0375	1	07/24/2017 12:02	WG1002043
Benzidine	U	J6	0.0723	0.378	1	07/24/2017 12:02	WG1002043
Benzo(a)anthracene	0.0323	J J3	0.00486	0.0375	1	07/24/2017 12:02	WG1002043
Benzo(b)fluoranthene	0.0347	J	0.00789	0.0375	1	07/24/2017 12:02	WG1002043
Benzo(k)fluoranthene	0.0154	J	0.00661	0.0375	1	07/24/2017 12:02	WG1002043
Benzo(g,h,i)perylene	0.0169	J	0.00819	0.0375	1	07/24/2017 12:02	WG1002043
Benzo(a)pyrene	0.0277	J	0.00622	0.0375	1	07/24/2017 12:02	WG1002043
Bis(2-chlorethoxy)methane	U		0.00874	0.378	1	07/24/2017 12:02	WG1002043
Bis(2-chloroethyl)ether	U		0.0102	0.378	1	07/24/2017 12:02	WG1002043
Bis(2-chloroisopropyl)ether	U		0.00863	0.378	1	07/24/2017 12:02	WG1002043
4-Bromophenyl-phenylether	U		0.0129	0.378	1	07/24/2017 12:02	WG1002043
2-Chloronaphthalene	U		0.00726	0.0375	1	07/24/2017 12:02	WG1002043
4-Chlorophenyl-phenylether	U		0.00712	0.378	1	07/24/2017 12:02	WG1002043
Chrysene	0.0317	J J3	0.00630	0.0375	1	07/24/2017 12:02	WG1002043
Dibenz(a,h)anthracene	U		0.00932	0.0375	1	07/24/2017 12:02	WG1002043
3,3-Dichlorobenzidine	U		0.0902	0.378	1	07/24/2017 12:02	WG1002043
2,4-Dinitrotoluene	U		0.00689	0.378	1	07/24/2017 12:02	WG1002043
2,6-Dinitrotoluene	U		0.00837	0.378	1	07/24/2017 12:02	WG1002043
Fluoranthene	0.0543	J3	0.00563	0.0375	1	07/24/2017 12:02	WG1002043
Fluorene	U		0.00774	0.0375	1	07/24/2017 12:02	WG1002043
Hexachlorobenzene	U		0.00972	0.378	1	07/24/2017 12:02	WG1002043
Hexachloro-1,3-butadiene	U		0.0114	0.378	1	07/24/2017 12:02	WG1002043
Hexachlorocyclopentadiene	U	J0	0.0667	0.378	1	07/24/2017 12:02	WG1002043

Semi Volatile Organic Compounds (GC/MS) by Method 8270D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Hexachloroethane	U		0.0152	0.378	1	07/24/2017 12:02	WG1002043
Indeno(1,2,3-cd)pyrene	0.0150	J	0.00877	0.0375	1	07/24/2017 12:02	WG1002043
Isophorone	U		0.00593	0.378	1	07/24/2017 12:02	WG1002043
Naphthalene	U		0.0101	0.0375	1	07/24/2017 12:02	WG1002043
Nitrobenzene	U		0.00789	0.378	1	07/24/2017 12:02	WG1002043
n-Nitrosodimethylamine	U		0.0735	0.378	1	07/24/2017 12:02	WG1002043
n-Nitrosodiphenylamine	U		0.00674	0.378	1	07/24/2017 12:02	WG1002043
n-Nitrosodi-n-propylamine	U		0.0103	0.378	1	07/24/2017 12:02	WG1002043
Phenanthrene	0.0234	J J3	0.00600	0.0375	1	07/24/2017 12:02	WG1002043
Benzylbutyl phthalate	U		0.0117	0.378	1	07/24/2017 12:02	WG1002043
Bis(2-ethylhexyl)phthalate	0.0159	J	0.0136	0.378	1	07/24/2017 12:02	WG1002043
Di-n-butyl phthalate	U		0.0124	0.378	1	07/24/2017 12:02	WG1002043
Diethyl phthalate	U		0.00785	0.378	1	07/24/2017 12:02	WG1002043
Dimethyl phthalate	U		0.00613	0.378	1	07/24/2017 12:02	WG1002043
Di-n-octyl phthalate	U		0.0103	0.378	1	07/24/2017 12:02	WG1002043
Pyrene	0.0456	J3	0.0140	0.0375	1	07/24/2017 12:02	WG1002043
1,2,4-Trichlorobenzene	U		0.00995	0.378	1	07/24/2017 12:02	WG1002043
4-Chloro-3-methylphenol	U		0.00542	0.378	1	07/24/2017 12:02	WG1002043
2-Chlorophenol	U		0.00944	0.378	1	07/24/2017 12:02	WG1002043
2,4-Dichlorophenol	U		0.00847	0.378	1	07/24/2017 12:02	WG1002043
2,4-Dimethylphenol	U		0.0535	0.378	1	07/24/2017 12:02	WG1002043
4,6-Dinitro-2-methylphenol	U		0.141	0.378	1	07/24/2017 12:02	WG1002043
2,4-Dinitrophenol	U		0.111	0.378	1	07/24/2017 12:02	WG1002043
2-Nitrophenol	U		0.0148	0.378	1	07/24/2017 12:02	WG1002043
4-Nitrophenol	U		0.0596	0.378	1	07/24/2017 12:02	WG1002043
Pentachlorophenol	U		0.0545	0.378	1	07/24/2017 12:02	WG1002043
Phenol	U		0.00789	0.378	1	07/24/2017 12:02	WG1002043
2,4,6-Trichlorophenol	U		0.00885	0.378	1	07/24/2017 12:02	WG1002043
(S) 2-Fluorophenol	*75.2*			*20.0-120*		*07/24/2017 12:02*	WG1002043
(S) Phenol-d5	*71.6*			*20.0-120*		*07/24/2017 12:02*	WG1002043
(S) Nitrobenzene-d5	*70.0*			*18.0-125*		*07/24/2017 12:02*	WG1002043
(S) 2-Fluorobiphenyl	*78.0*			*28.0-120*		*07/24/2017 12:02*	WG1002043
(S) 2,4,6-Tribromophenol	*79.3*			*17.0-137*		*07/24/2017 12:02*	WG1002043
(S) p-Terphenyl-d14	*66.2*			*13.0-131*		*07/24/2017 12:02*	WG1002043

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	87.5		1	07/19/2017 15:23	WG1000516

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	0.0231	J J3	0.0114	0.0572	1	07/20/2017 05:31	WG1000613
Acrylonitrile	U		0.00205	0.0114	1	07/20/2017 05:31	WG1000613
Benzene	0.000780	J	0.000309	0.00114	1	07/20/2017 05:31	WG1000613
Bromobenzene	U		0.000325	0.00114	1	07/20/2017 05:31	WG1000613
Bromodichloromethane	U		0.000290	0.00114	1	07/20/2017 05:31	WG1000613
Bromoform	U	J4	0.000485	0.00114	1	07/20/2017 05:31	WG1000613
Bromomethane	U		0.00153	0.00572	1	07/20/2017 05:31	WG1000613
n-Butylbenzene	U		0.000295	0.00114	1	07/20/2017 05:31	WG1000613
sec-Butylbenzene	U		0.000230	0.00114	1	07/20/2017 05:31	WG1000613
tert-Butylbenzene	U		0.000236	0.00114	1	07/20/2017 05:31	WG1000613
Carbon tetrachloride	U		0.000375	0.00114	1	07/20/2017 05:31	WG1000613
Chlorobenzene	U		0.000242	0.00114	1	07/20/2017 05:31	WG1000613
Chlorodibromomethane	U		0.000426	0.00114	1	07/20/2017 05:31	WG1000613
Chloroethane	U		0.00108	0.00572	1	07/20/2017 05:31	WG1000613
Chloroform	U		0.000262	0.00572	1	07/20/2017 05:31	WG1000613
Chloromethane	U		0.000429	0.00286	1	07/20/2017 05:31	WG1000613
2-Chlorotoluene	U		0.000344	0.00114	1	07/20/2017 05:31	WG1000613
4-Chlorotoluene	U		0.000274	0.00114	1	07/20/2017 05:31	WG1000613
1,2-Dibromo-3-Chloropropane	U		0.00120	0.00572	1	07/20/2017 05:31	WG1000613
1,2-Dibromoethane	U		0.000392	0.00114	1	07/20/2017 05:31	WG1000613
Dibromomethane	U		0.000437	0.00114	1	07/20/2017 05:31	WG1000613
1,2-Dichlorobenzene	U		0.000349	0.00114	1	07/20/2017 05:31	WG1000613
1,3-Dichlorobenzene	U		0.000273	0.00114	1	07/20/2017 05:31	WG1000613
1,4-Dichlorobenzene	U		0.000258	0.00114	1	07/20/2017 05:31	WG1000613
Dichlorodifluoromethane	U		0.000815	0.00572	1	07/20/2017 05:31	WG1000613
1,1-Dichloroethane	U		0.000228	0.00114	1	07/20/2017 05:31	WG1000613
1,2-Dichloroethane	U		0.000303	0.00114	1	07/20/2017 05:31	WG1000613
1,1-Dichloroethene	U		0.000346	0.00114	1	07/20/2017 05:31	WG1000613
cis-1,2-Dichloroethene	U		0.000269	0.00114	1	07/20/2017 05:31	WG1000613
trans-1,2-Dichloroethene	U		0.000302	0.00114	1	07/20/2017 05:31	WG1000613
1,2-Dichloropropane	U		0.000409	0.00114	1	07/20/2017 05:31	WG1000613
1,1-Dichloropropene	U		0.000362	0.00114	1	07/20/2017 05:31	WG1000613
1,3-Dichloropropane	U		0.000237	0.00114	1	07/20/2017 05:31	WG1000613
cis-1,3-Dichloropropene	U		0.000300	0.00114	1	07/20/2017 05:31	WG1000613
trans-1,3-Dichloropropene	U		0.000305	0.00114	1	07/20/2017 05:31	WG1000613
2,2-Dichloropropane	U		0.000319	0.00114	1	07/20/2017 05:31	WG1000613
Di-isopropyl ether	U		0.000284	0.00114	1	07/20/2017 05:31	WG1000613
Ethylbenzene	U		0.000340	0.00114	1	07/20/2017 05:31	WG1000613
Hexachloro-1,3-butadiene	U		0.000391	0.00114	1	07/20/2017 05:31	WG1000613
Isopropylbenzene	U		0.000278	0.00114	1	07/20/2017 05:31	WG1000613
p-Isopropyltoluene	U		0.000233	0.00114	1	07/20/2017 05:31	WG1000613
2-Butanone (MEK)	U		0.00535	0.0114	1	07/20/2017 05:31	WG1000613
Methylene Chloride	U		0.00114	0.00572	1	07/20/2017 05:31	WG1000613
4-Methyl-2-pentanone (MIBK)	U		0.00215	0.0114	1	07/20/2017 05:31	WG1000613
Methyl tert-butyl ether	U		0.000242	0.00114	1	07/20/2017 05:31	WG1000613
Naphthalene	U		0.00114	0.00572	1	07/20/2017 05:31	WG1000613
n-Propylbenzene	U		0.000236	0.00114	1	07/20/2017 05:31	WG1000613
Styrene	U		0.000268	0.00114	1	07/20/2017 05:31	WG1000613
1,1,1,2-Tetrachloroethane	U		0.000302	0.00114	1	07/20/2017 05:31	WG1000613
1,1,2,2-Tetrachloroethane	U		0.000417	0.00114	1	07/20/2017 05:31	WG1000613

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.000417	0.00114	1	07/20/2017 05:31	WG1000613
Tetrachloroethene	U		0.000316	0.00114	1	07/20/2017 05:31	WG1000613
Toluene	0.00367	J	0.000496	0.00572	1	07/20/2017 05:31	WG1000613
1,2,3-Trichlorobenzene	U		0.000350	0.00114	1	07/20/2017 05:31	WG1000613
1,2,4-Trichlorobenzene	U		0.000444	0.00114	1	07/20/2017 05:31	WG1000613
1,1,1-Trichloroethane	U		0.000327	0.00114	1	07/20/2017 05:31	WG1000613
1,1,2-Trichloroethane	U		0.000317	0.00114	1	07/20/2017 05:31	WG1000613
Trichloroethene	U		0.000319	0.00114	1	07/20/2017 17:50	WG1000613
Trichlorofluoromethane	U		0.000437	0.00572	1	07/20/2017 05:31	WG1000613
1,2,3-Trichloropropane	U		0.000847	0.00286	1	07/20/2017 05:31	WG1000613
1,2,4-Trimethylbenzene	U		0.000241	0.00114	1	07/20/2017 05:31	WG1000613
1,2,3-Trimethylbenzene	U		0.000328	0.00114	1	07/20/2017 05:31	WG1000613
Vinyl chloride	U		0.000333	0.00114	1	07/20/2017 05:31	WG1000613
1,3,5-Trimethylbenzene	U		0.000304	0.00114	1	07/20/2017 05:31	WG1000613
Xylenes, Total	0.00110	J	0.000798	0.00343	1	07/20/2017 05:31	WG1000613
(S) Toluene-d8	*103*			*80.0-120*		*07/20/2017 05:31*	WG1000613
(S) Toluene-d8	*104*			*80.0-120*		*07/20/2017 17:50*	WG1000613
(S) Dibromofluoromethane	*91.3*			*74.0-131*		*07/20/2017 05:31*	WG1000613
(S) Dibromofluoromethane	*99.7*			*74.0-131*		*07/20/2017 17:50*	WG1000613
(S) 4-Bromofluorobenzene	*92.7*			*64.0-132*		*07/20/2017 05:31*	WG1000613
(S) 4-Bromofluorobenzene	*91.0*			*64.0-132*		*07/20/2017 17:50*	WG1000613

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	88.4		1	07/19/2017 15:23	WG1000516

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	0.0351	J J3	0.0113	0.0566	1	07/20/2017 05:51	WG1000613
Acrylonitrile	U		0.00202	0.0113	1	07/20/2017 05:51	WG1000613
Benzene	0.000591	J	0.000305	0.00113	1	07/20/2017 05:51	WG1000613
Bromobenzene	U		0.000321	0.00113	1	07/20/2017 05:51	WG1000613
Bromodichloromethane	U		0.000287	0.00113	1	07/20/2017 05:51	WG1000613
Bromoform	U	J4	0.000480	0.00113	1	07/20/2017 05:51	WG1000613
Bromomethane	U		0.00152	0.00566	1	07/20/2017 05:51	WG1000613
n-Butylbenzene	U		0.000292	0.00113	1	07/20/2017 05:51	WG1000613
sec-Butylbenzene	U		0.000227	0.00113	1	07/20/2017 05:51	WG1000613
tert-Butylbenzene	U		0.000233	0.00113	1	07/20/2017 05:51	WG1000613
Carbon tetrachloride	U		0.000371	0.00113	1	07/20/2017 05:51	WG1000613
Chlorobenzene	U		0.000240	0.00113	1	07/20/2017 05:51	WG1000613
Chlorodibromomethane	U		0.000422	0.00113	1	07/20/2017 05:51	WG1000613
Chloroethane	U		0.00107	0.00566	1	07/20/2017 05:51	WG1000613
Chloroform	U		0.000259	0.00566	1	07/20/2017 05:51	WG1000613
Chloromethane	U		0.000424	0.00283	1	07/20/2017 05:51	WG1000613
2-Chlorotoluene	U		0.000340	0.00113	1	07/20/2017 05:51	WG1000613
4-Chlorotoluene	U		0.000271	0.00113	1	07/20/2017 05:51	WG1000613
1,2-Dibromo-3-Chloropropane	U		0.00119	0.00566	1	07/20/2017 05:51	WG1000613
1,2-Dibromoethane	U		0.000388	0.00113	1	07/20/2017 05:51	WG1000613
Dibromomethane	U		0.000432	0.00113	1	07/20/2017 05:51	WG1000613
1,2-Dichlorobenzene	U		0.000345	0.00113	1	07/20/2017 05:51	WG1000613
1,3-Dichlorobenzene	U		0.000270	0.00113	1	07/20/2017 05:51	WG1000613
1,4-Dichlorobenzene	U		0.000256	0.00113	1	07/20/2017 05:51	WG1000613
Dichlorodifluoromethane	U		0.000806	0.00566	1	07/20/2017 05:51	WG1000613
1,1-Dichloroethane	U		0.000225	0.00113	1	07/20/2017 05:51	WG1000613
1,2-Dichloroethane	U		0.000300	0.00113	1	07/20/2017 05:51	WG1000613
1,1-Dichloroethene	U		0.000343	0.00113	1	07/20/2017 05:51	WG1000613
cis-1,2-Dichloroethene	U		0.000266	0.00113	1	07/20/2017 05:51	WG1000613
trans-1,2-Dichloroethene	U		0.000299	0.00113	1	07/20/2017 05:51	WG1000613
1,2-Dichloropropane	U		0.000405	0.00113	1	07/20/2017 05:51	WG1000613
1,1-Dichloropropene	U		0.000359	0.00113	1	07/20/2017 05:51	WG1000613
1,3-Dichloropropane	U		0.000234	0.00113	1	07/20/2017 05:51	WG1000613
cis-1,3-Dichloropropene	U		0.000296	0.00113	1	07/20/2017 05:51	WG1000613
trans-1,3-Dichloropropene	U		0.000302	0.00113	1	07/20/2017 05:51	WG1000613
2,2-Dichloropropane	U		0.000316	0.00113	1	07/20/2017 05:51	WG1000613
Di-isopropyl ether	U		0.000280	0.00113	1	07/20/2017 05:51	WG1000613
Ethylbenzene	U		0.000336	0.00113	1	07/20/2017 05:51	WG1000613
Hexachloro-1,3-butadiene	U		0.000387	0.00113	1	07/20/2017 05:51	WG1000613
Isopropylbenzene	U		0.000275	0.00113	1	07/20/2017 05:51	WG1000613
p-Isopropyltoluene	U		0.000231	0.00113	1	07/20/2017 05:51	WG1000613
2-Butanone (MEK)	U		0.00529	0.0113	1	07/20/2017 05:51	WG1000613
Methylene Chloride	U		0.00113	0.00566	1	07/20/2017 05:51	WG1000613
4-Methyl-2-pentanone (MIBK)	U		0.00213	0.0113	1	07/20/2017 05:51	WG1000613
Methyl tert-butyl ether	U		0.000240	0.00113	1	07/20/2017 05:51	WG1000613
Naphthalene	U		0.00113	0.00566	1	07/20/2017 05:51	WG1000613
n-Propylbenzene	U		0.000233	0.00113	1	07/20/2017 05:51	WG1000613
Styrene	U		0.000265	0.00113	1	07/20/2017 05:51	WG1000613
1,1,1,2-Tetrachloroethane	U		0.000299	0.00113	1	07/20/2017 05:51	WG1000613
1,1,2,2-Tetrachloroethane	U		0.000413	0.00113	1	07/20/2017 05:51	WG1000613

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.000413	0.00113	1	07/20/2017 05:51	WG1000613
Tetrachloroethene	U		0.000312	0.00113	1	07/20/2017 05:51	WG1000613
Toluene	0.00279	J	0.000491	0.00566	1	07/20/2017 05:51	WG1000613
1,2,3-Trichlorobenzene	U		0.000346	0.00113	1	07/20/2017 05:51	WG1000613
1,2,4-Trichlorobenzene	U		0.000439	0.00113	1	07/20/2017 05:51	WG1000613
1,1,1-Trichloroethane	U		0.000323	0.00113	1	07/20/2017 05:51	WG1000613
1,1,2-Trichloroethane	U		0.000313	0.00113	1	07/20/2017 05:51	WG1000613
Trichloroethene	U		0.000316	0.00113	1	07/20/2017 18:10	WG1000613
Trichlorofluoromethane	U		0.000432	0.00566	1	07/20/2017 05:51	WG1000613
1,2,3-Trichloropropane	U		0.000838	0.00283	1	07/20/2017 05:51	WG1000613
1,2,4-Trimethylbenzene	U		0.000239	0.00113	1	07/20/2017 05:51	WG1000613
1,2,3-Trimethylbenzene	U		0.000325	0.00113	1	07/20/2017 05:51	WG1000613
Vinyl chloride	U		0.000329	0.00113	1	07/20/2017 05:51	WG1000613
1,3,5-Trimethylbenzene	U		0.000301	0.00113	1	07/20/2017 05:51	WG1000613
Xylenes, Total	0.000834	J	0.000789	0.00339	1	07/20/2017 05:51	WG1000613
(S) Toluene-d8	*105*			*80.0-120*		*07/20/2017 05:51*	WG1000613
(S) Toluene-d8	*104*			*80.0-120*		*07/20/2017 18:10*	WG1000613
(S) Dibromofluoromethane	*96.5*			*74.0-131*		*07/20/2017 05:51*	WG1000613
(S) Dibromofluoromethane	*107*			*74.0-131*		*07/20/2017 18:10*	WG1000613
(S) 4-Bromofluorobenzene	*92.8*			*64.0-132*		*07/20/2017 18:10*	WG1000613
(S) 4-Bromofluorobenzene	*92.6*			*64.0-132*		*07/20/2017 05:51*	WG1000613

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	88.4		1	07/19/2017 15:23	WG1000516

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	0.0356	J J3	0.0113	0.0566	1	07/20/2017 06:11	WG1000613
Acrylonitrile	U		0.00203	0.0113	1	07/20/2017 06:11	WG1000613
Benzene	0.000574	J	0.000306	0.00113	1	07/20/2017 06:11	WG1000613
Bromobenzene	U		0.000321	0.00113	1	07/20/2017 06:11	WG1000613
Bromodichloromethane	U		0.000287	0.00113	1	07/20/2017 06:11	WG1000613
Bromoform	U	J4	0.000480	0.00113	1	07/20/2017 06:11	WG1000613
Bromomethane	U		0.00152	0.00566	1	07/20/2017 06:11	WG1000613
n-Butylbenzene	U		0.000292	0.00113	1	07/20/2017 06:11	WG1000613
sec-Butylbenzene	U		0.000227	0.00113	1	07/20/2017 06:11	WG1000613
tert-Butylbenzene	U		0.000233	0.00113	1	07/20/2017 06:11	WG1000613
Carbon tetrachloride	U		0.000371	0.00113	1	07/20/2017 06:11	WG1000613
Chlorobenzene	U		0.000240	0.00113	1	07/20/2017 06:11	WG1000613
Chlorodibromomethane	U		0.000422	0.00113	1	07/20/2017 06:11	WG1000613
Chloroethane	U		0.00107	0.00566	1	07/20/2017 06:11	WG1000613
Chloroform	U		0.000259	0.00566	1	07/20/2017 06:11	WG1000613
Chloromethane	U		0.000424	0.00283	1	07/20/2017 06:11	WG1000613
2-Chlorotoluene	U		0.000341	0.00113	1	07/20/2017 06:11	WG1000613
4-Chlorotoluene	U		0.000272	0.00113	1	07/20/2017 06:11	WG1000613
1,2-Dibromo-3-Chloropropane	U		0.00119	0.00566	1	07/20/2017 06:11	WG1000613
1,2-Dibromoethane	U		0.000388	0.00113	1	07/20/2017 06:11	WG1000613
Dibromomethane	U		0.000432	0.00113	1	07/20/2017 06:11	WG1000613
1,2-Dichlorobenzene	U		0.000345	0.00113	1	07/20/2017 06:11	WG1000613
1,3-Dichlorobenzene	U		0.000270	0.00113	1	07/20/2017 06:11	WG1000613
1,4-Dichlorobenzene	U		0.000256	0.00113	1	07/20/2017 06:11	WG1000613
Dichlorodifluoromethane	U		0.000807	0.00566	1	07/20/2017 06:11	WG1000613
1,1-Dichloroethane	U		0.000225	0.00113	1	07/20/2017 06:11	WG1000613
1,2-Dichloroethane	U		0.000300	0.00113	1	07/20/2017 06:11	WG1000613
1,1-Dichloroethene	U		0.000343	0.00113	1	07/20/2017 06:11	WG1000613
cis-1,2-Dichloroethene	U		0.000266	0.00113	1	07/20/2017 06:11	WG1000613
trans-1,2-Dichloroethene	U		0.000299	0.00113	1	07/20/2017 06:11	WG1000613
1,2-Dichloropropane	U		0.000405	0.00113	1	07/20/2017 06:11	WG1000613
1,1-Dichloropropene	U		0.000359	0.00113	1	07/20/2017 06:11	WG1000613
1,3-Dichloropropane	U		0.000234	0.00113	1	07/20/2017 06:11	WG1000613
cis-1,3-Dichloropropene	U		0.000297	0.00113	1	07/20/2017 06:11	WG1000613
trans-1,3-Dichloropropene	U		0.000302	0.00113	1	07/20/2017 06:11	WG1000613
2,2-Dichloropropane	U		0.000316	0.00113	1	07/20/2017 06:11	WG1000613
Di-isopropyl ether	U		0.000281	0.00113	1	07/20/2017 06:11	WG1000613
Ethylbenzene	U		0.000336	0.00113	1	07/20/2017 06:11	WG1000613
Hexachloro-1,3-butadiene	U		0.000387	0.00113	1	07/20/2017 06:11	WG1000613
Isopropylbenzene	U		0.000275	0.00113	1	07/20/2017 06:11	WG1000613
p-Isopropyltoluene	0.000330	J	0.000231	0.00113	1	07/20/2017 06:11	WG1000613
2-Butanone (MEK)	U		0.00530	0.0113	1	07/20/2017 06:11	WG1000613
Methylene Chloride	U		0.00113	0.00566	1	07/20/2017 06:11	WG1000613
4-Methyl-2-pentanone (MIBK)	U		0.00213	0.0113	1	07/20/2017 06:11	WG1000613
Methyl tert-butyl ether	U		0.000240	0.00113	1	07/20/2017 06:11	WG1000613
Naphthalene	U		0.00113	0.00566	1	07/20/2017 06:11	WG1000613
n-Propylbenzene	U		0.000233	0.00113	1	07/20/2017 06:11	WG1000613
Styrene	U		0.000265	0.00113	1	07/20/2017 06:11	WG1000613
1,1,1,2-Tetrachloroethane	U		0.000299	0.00113	1	07/20/2017 06:11	WG1000613
1,1,2,2-Tetrachloroethane	U		0.000413	0.00113	1	07/20/2017 06:11	WG1000613

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.000413	0.00113	1	07/20/2017 06:11	WG1000613
Tetrachloroethene	U		0.000312	0.00113	1	07/20/2017 06:11	WG1000613
Toluene	0.00202	J	0.000491	0.00566	1	07/20/2017 06:11	WG1000613
1,2,3-Trichlorobenzene	U		0.000346	0.00113	1	07/20/2017 06:11	WG1000613
1,2,4-Trichlorobenzene	U		0.000439	0.00113	1	07/20/2017 06:11	WG1000613
1,1,1-Trichloroethane	U		0.000324	0.00113	1	07/20/2017 06:11	WG1000613
1,1,2-Trichloroethane	U		0.000313	0.00113	1	07/20/2017 06:11	WG1000613
Trichloroethene	U		0.000316	0.00113	1	07/20/2017 18:30	WG1000613
Trichlorofluoromethane	U		0.000432	0.00566	1	07/20/2017 06:11	WG1000613
1,2,3-Trichloropropane	U		0.000839	0.00283	1	07/20/2017 06:11	WG1000613
1,2,4-Trimethylbenzene	U		0.000239	0.00113	1	07/20/2017 06:11	WG1000613
1,2,3-Trimethylbenzene	U		0.000325	0.00113	1	07/20/2017 06:11	WG1000613
Vinyl chloride	U		0.000329	0.00113	1	07/20/2017 06:11	WG1000613
1,3,5-Trimethylbenzene	U		0.000301	0.00113	1	07/20/2017 06:11	WG1000613
Xylenes, Total	U		0.000790	0.00340	1	07/20/2017 06:11	WG1000613
(S) Toluene-d8	*105*			*80.0-120*		*07/20/2017 18:30*	WG1000613
(S) Toluene-d8	*103*			*80.0-120*		*07/20/2017 06:11*	WG1000613
(S) Dibromofluoromethane	*105*			*74.0-131*		*07/20/2017 18:30*	WG1000613
(S) Dibromofluoromethane	*98.8*			*74.0-131*		*07/20/2017 06:11*	WG1000613
(S) 4-Bromofluorobenzene	*96.0*			*64.0-132*		*07/20/2017 06:11*	WG1000613
(S) 4-Bromofluorobenzene	*85.7*			*64.0-132*		*07/20/2017 18:30*	WG1000613

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	87.0		1	07/19/2017 15:11	WG1000518

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	0.0324	J J3	0.0117	0.0587	1.02	07/20/2017 06:31	WG1000613
Acrylonitrile	U		0.00209	0.0117	1.02	07/20/2017 06:31	WG1000613
Benzene	0.000497	J	0.000316	0.00117	1.02	07/20/2017 06:31	WG1000613
Bromobenzene	U		0.000334	0.00117	1.02	07/20/2017 06:31	WG1000613
Bromodichloromethane	U		0.000298	0.00117	1.02	07/20/2017 06:31	WG1000613
Bromoform	U	J4	0.000497	0.00117	1.02	07/20/2017 06:31	WG1000613
Bromomethane	U		0.00158	0.00587	1.02	07/20/2017 06:31	WG1000613
n-Butylbenzene	U		0.000302	0.00117	1.02	07/20/2017 06:31	WG1000613
sec-Butylbenzene	U		0.000236	0.00117	1.02	07/20/2017 06:31	WG1000613
tert-Butylbenzene	U		0.000242	0.00117	1.02	07/20/2017 06:31	WG1000613
Carbon tetrachloride	U		0.000384	0.00117	1.02	07/20/2017 06:31	WG1000613
Chlorobenzene	U		0.000248	0.00117	1.02	07/20/2017 06:31	WG1000613
Chlorodibromomethane	U		0.000437	0.00117	1.02	07/20/2017 06:31	WG1000613
Chloroethane	U		0.00111	0.00587	1.02	07/20/2017 06:31	WG1000613
Chloroform	U		0.000269	0.00587	1.02	07/20/2017 06:31	WG1000613
Chloromethane	U		0.000439	0.00293	1.02	07/20/2017 06:31	WG1000613
2-Chlorotoluene	U		0.000353	0.00117	1.02	07/20/2017 06:31	WG1000613
4-Chlorotoluene	U		0.000282	0.00117	1.02	07/20/2017 06:31	WG1000613
1,2-Dibromo-3-Chloropropane	U		0.00123	0.00587	1.02	07/20/2017 06:31	WG1000613
1,2-Dibromoethane	U		0.000403	0.00117	1.02	07/20/2017 06:31	WG1000613
Dibromomethane	U		0.000449	0.00117	1.02	07/20/2017 06:31	WG1000613
1,2-Dichlorobenzene	U		0.000358	0.00117	1.02	07/20/2017 06:31	WG1000613
1,3-Dichlorobenzene	U		0.000281	0.00117	1.02	07/20/2017 06:31	WG1000613
1,4-Dichlorobenzene	U		0.000265	0.00117	1.02	07/20/2017 06:31	WG1000613
Dichlorodifluoromethane	U		0.000836	0.00587	1.02	07/20/2017 06:31	WG1000613
1,1-Dichloroethane	U		0.000233	0.00117	1.02	07/20/2017 06:31	WG1000613
1,2-Dichloroethane	U		0.000311	0.00117	1.02	07/20/2017 06:31	WG1000613
1,1-Dichloroethene	U		0.000355	0.00117	1.02	07/20/2017 06:31	WG1000613
cis-1,2-Dichloroethene	U		0.000276	0.00117	1.02	07/20/2017 06:31	WG1000613
trans-1,2-Dichloroethene	U		0.000309	0.00117	1.02	07/20/2017 06:31	WG1000613
1,2-Dichloropropane	U		0.000420	0.00117	1.02	07/20/2017 06:31	WG1000613
1,1-Dichloropropene	U		0.000371	0.00117	1.02	07/20/2017 06:31	WG1000613
1,3-Dichloropropane	U		0.000243	0.00117	1.02	07/20/2017 06:31	WG1000613
cis-1,3-Dichloropropene	U		0.000307	0.00117	1.02	07/20/2017 06:31	WG1000613
trans-1,3-Dichloropropene	U		0.000313	0.00117	1.02	07/20/2017 06:31	WG1000613
2,2-Dichloropropane	U		0.000327	0.00117	1.02	07/20/2017 06:31	WG1000613
Di-isopropyl ether	U		0.000291	0.00117	1.02	07/20/2017 06:31	WG1000613
Ethylbenzene	U		0.000348	0.00117	1.02	07/20/2017 06:31	WG1000613
Hexachloro-1,3-butadiene	U		0.000401	0.00117	1.02	07/20/2017 06:31	WG1000613
Isopropylbenzene	U		0.000285	0.00117	1.02	07/20/2017 06:31	WG1000613
p-Isopropyltoluene	U		0.000239	0.00117	1.02	07/20/2017 06:31	WG1000613
2-Butanone (MEK)	U		0.00549	0.0117	1.02	07/20/2017 06:31	WG1000613
Methylene Chloride	U		0.00117	0.00587	1.02	07/20/2017 06:31	WG1000613
4-Methyl-2-pentanone (MIBK)	U		0.00221	0.0117	1.02	07/20/2017 06:31	WG1000613
Methyl tert-butyl ether	U		0.000248	0.00117	1.02	07/20/2017 06:31	WG1000613
Naphthalene	U		0.00117	0.00587	1.02	07/20/2017 06:31	WG1000613
n-Propylbenzene	U		0.000242	0.00117	1.02	07/20/2017 06:31	WG1000613
Styrene	U		0.000275	0.00117	1.02	07/20/2017 06:31	WG1000613
1,1,1,2-Tetrachloroethane	U		0.000309	0.00117	1.02	07/20/2017 06:31	WG1000613
1,1,2,2-Tetrachloroethane	U		0.000428	0.00117	1.02	07/20/2017 06:31	WG1000613

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.000428	0.00117	1.02	07/20/2017 06:31	WG1000613
Tetrachloroethene	U		0.000324	0.00117	1.02	07/20/2017 06:31	WG1000613
Toluene	0.00254	J	0.000509	0.00587	1.02	07/20/2017 06:31	WG1000613
1,2,3-Trichlorobenzene	U		0.000359	0.00117	1.02	07/20/2017 06:31	WG1000613
1,2,4-Trichlorobenzene	U		0.000455	0.00117	1.02	07/20/2017 06:31	WG1000613
1,1,1-Trichloroethane	U		0.000336	0.00117	1.02	07/20/2017 06:31	WG1000613
1,1,2-Trichloroethane	U		0.000324	0.00117	1.02	07/20/2017 06:31	WG1000613
Trichloroethene	U		0.000321	0.00115	1	07/20/2017 18:50	WG1000613
Trichlorofluoromethane	U		0.000449	0.00587	1.02	07/20/2017 06:31	WG1000613
1,2,3-Trichloropropane	U		0.000869	0.00293	1.02	07/20/2017 06:31	WG1000613
1,2,4-Trimethylbenzene	U		0.000247	0.00117	1.02	07/20/2017 06:31	WG1000613
1,2,3-Trimethylbenzene	U		0.000337	0.00117	1.02	07/20/2017 06:31	WG1000613
Vinyl chloride	U		0.000342	0.00117	1.02	07/20/2017 06:31	WG1000613
1,3,5-Trimethylbenzene	U		0.000312	0.00117	1.02	07/20/2017 06:31	WG1000613
Xylenes, Total	U		0.000819	0.00352	1.02	07/20/2017 06:31	WG1000613
(S) Toluene-d8	*105*			*80.0-120*		*07/20/2017 18:50*	WG1000613
(S) Toluene-d8	*105*			*80.0-120*		*07/20/2017 06:31*	WG1000613
(S) Dibromofluoromethane	*106*			*74.0-131*		*07/20/2017 18:50*	WG1000613
(S) Dibromofluoromethane	*95.2*			*74.0-131*		*07/20/2017 06:31*	WG1000613
(S) 4-Bromofluorobenzene	*93.0*			*64.0-132*		*07/20/2017 18:50*	WG1000613
(S) 4-Bromofluorobenzene	*96.7*			*64.0-132*		*07/20/2017 06:31*	WG1000613

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	90.5		1	07/19/2017 15:11	WG1000518

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	0.0254	J J3	0.0110	0.0552	1	07/20/2017 06:51	WG1000613
Acrylonitrile	U		0.00198	0.0110	1	07/20/2017 06:51	WG1000613
Benzene	0.000660	J	0.000298	0.00110	1	07/20/2017 06:51	WG1000613
Bromobenzene	U		0.000314	0.00110	1	07/20/2017 06:51	WG1000613
Bromodichloromethane	U		0.000281	0.00110	1	07/20/2017 06:51	WG1000613
Bromoform	U	J4	0.000468	0.00110	1	07/20/2017 06:51	WG1000613
Bromomethane	U		0.00148	0.00552	1	07/20/2017 06:51	WG1000613
n-Butylbenzene	U		0.000285	0.00110	1	07/20/2017 06:51	WG1000613
sec-Butylbenzene	U		0.000222	0.00110	1	07/20/2017 06:51	WG1000613
tert-Butylbenzene	U		0.000228	0.00110	1	07/20/2017 06:51	WG1000613
Carbon tetrachloride	U		0.000362	0.00110	1	07/20/2017 06:51	WG1000613
Chlorobenzene	U		0.000234	0.00110	1	07/20/2017 06:51	WG1000613
Chlorodibromomethane	U		0.000412	0.00110	1	07/20/2017 06:51	WG1000613
Chloroethane	U		0.00105	0.00552	1	07/20/2017 06:51	WG1000613
Chloroform	U		0.000253	0.00552	1	07/20/2017 06:51	WG1000613
Chloromethane	U		0.000414	0.00276	1	07/20/2017 06:51	WG1000613
2-Chlorotoluene	U		0.000333	0.00110	1	07/20/2017 06:51	WG1000613
4-Chlorotoluene	U		0.000265	0.00110	1	07/20/2017 06:51	WG1000613
1,2-Dibromo-3-Chloropropane	U		0.00116	0.00552	1	07/20/2017 06:51	WG1000613
1,2-Dibromoethane	U		0.000379	0.00110	1	07/20/2017 06:51	WG1000613
Dibromomethane	U		0.000422	0.00110	1	07/20/2017 06:51	WG1000613
1,2-Dichlorobenzene	U		0.000337	0.00110	1	07/20/2017 06:51	WG1000613
1,3-Dichlorobenzene	U		0.000264	0.00110	1	07/20/2017 06:51	WG1000613
1,4-Dichlorobenzene	U		0.000250	0.00110	1	07/20/2017 06:51	WG1000613
Dichlorodifluoromethane	U		0.000788	0.00552	1	07/20/2017 06:51	WG1000613
1,1-Dichloroethane	U		0.000220	0.00110	1	07/20/2017 06:51	WG1000613
1,2-Dichloroethane	U		0.000293	0.00110	1	07/20/2017 06:51	WG1000613
1,1-Dichloroethene	U		0.000335	0.00110	1	07/20/2017 06:51	WG1000613
cis-1,2-Dichloroethene	U		0.000260	0.00110	1	07/20/2017 06:51	WG1000613
trans-1,2-Dichloroethene	U		0.000292	0.00110	1	07/20/2017 06:51	WG1000613
1,2-Dichloropropane	U		0.000396	0.00110	1	07/20/2017 06:51	WG1000613
1,1-Dichloropropene	U		0.000350	0.00110	1	07/20/2017 06:51	WG1000613
1,3-Dichloropropane	U		0.000229	0.00110	1	07/20/2017 06:51	WG1000613
cis-1,3-Dichloropropene	U		0.000289	0.00110	1	07/20/2017 06:51	WG1000613
trans-1,3-Dichloropropene	U		0.000295	0.00110	1	07/20/2017 06:51	WG1000613
2,2-Dichloropropane	U		0.000308	0.00110	1	07/20/2017 06:51	WG1000613
Di-isopropyl ether	U		0.000274	0.00110	1	07/20/2017 06:51	WG1000613
Ethylbenzene	U		0.000328	0.00110	1	07/20/2017 06:51	WG1000613
Hexachloro-1,3-butadiene	U		0.000378	0.00110	1	07/20/2017 06:51	WG1000613
Isopropylbenzene	U		0.000268	0.00110	1	07/20/2017 06:51	WG1000613
p-Isopropyltoluene	U		0.000225	0.00110	1	07/20/2017 06:51	WG1000613
2-Butanone (MEK)	U		0.00517	0.0110	1	07/20/2017 06:51	WG1000613
Methylene Chloride	U		0.00110	0.00552	1	07/20/2017 06:51	WG1000613
4-Methyl-2-pentanone (MIBK)	U		0.00208	0.0110	1	07/20/2017 06:51	WG1000613
Methyl tert-butyl ether	U		0.000234	0.00110	1	07/20/2017 06:51	WG1000613
Naphthalene	U		0.00110	0.00552	1	07/20/2017 06:51	WG1000613
n-Propylbenzene	U		0.000228	0.00110	1	07/20/2017 06:51	WG1000613
Styrene	U		0.000259	0.00110	1	07/20/2017 06:51	WG1000613
1,1,1,2-Tetrachloroethane	U		0.000292	0.00110	1	07/20/2017 06:51	WG1000613
1,1,2,2-Tetrachloroethane	U		0.000403	0.00110	1	07/20/2017 06:51	WG1000613

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.000403	0.00110	1	07/20/2017 06:51	WG1000613
Tetrachloroethene	U		0.000305	0.00110	1	07/20/2017 06:51	WG1000613
Toluene	0.00300	J	0.000480	0.00552	1	07/20/2017 06:51	WG1000613
1,2,3-Trichlorobenzene	U		0.000338	0.00110	1	07/20/2017 06:51	WG1000613
1,2,4-Trichlorobenzene	U		0.000429	0.00110	1	07/20/2017 06:51	WG1000613
1,1,1-Trichloroethane	U		0.000316	0.00110	1	07/20/2017 06:51	WG1000613
1,1,2-Trichloroethane	U		0.000306	0.00110	1	07/20/2017 06:51	WG1000613
Trichloroethene	U		0.000308	0.00110	1	07/20/2017 19:10	WG1000613
Trichlorofluoromethane	U		0.000422	0.00552	1	07/20/2017 06:51	WG1000613
1,2,3-Trichloropropane	U		0.000819	0.00276	1	07/20/2017 06:51	WG1000613
1,2,4-Trimethylbenzene	U		0.000233	0.00110	1	07/20/2017 06:51	WG1000613
1,2,3-Trimethylbenzene	U		0.000317	0.00110	1	07/20/2017 06:51	WG1000613
Vinyl chloride	U		0.000322	0.00110	1	07/20/2017 06:51	WG1000613
1,3,5-Trimethylbenzene	U		0.000294	0.00110	1	07/20/2017 06:51	WG1000613
Xylenes, Total	0.000794	J	0.000771	0.00331	1	07/20/2017 06:51	WG1000613
(S) Toluene-d8	*105*			*80.0-120*		*07/20/2017 19:10*	WG1000613
(S) Toluene-d8	*105*			*80.0-120*		*07/20/2017 06:51*	WG1000613
(S) Dibromofluoromethane	*93.2*			*74.0-131*		*07/20/2017 06:51*	WG1000613
(S) Dibromofluoromethane	*105*			*74.0-131*		*07/20/2017 19:10*	WG1000613
(S) 4-Bromofluorobenzene	*88.1*			*64.0-132*		*07/20/2017 06:51*	WG1000613
(S) 4-Bromofluorobenzene	*86.2*			*64.0-132*		*07/20/2017 19:10*	WG1000613

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	85.5		1	07/19/2017 15:11	WG1000518

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	0.0386	J J5	0.0117	0.0585	1	07/20/2017 07:11	WG1000613
Acrylonitrile	U		0.00209	0.0117	1	07/20/2017 07:11	WG1000613
Benzene	0.000458	J	0.000316	0.00117	1	07/20/2017 07:11	WG1000613
Bromobenzene	U		0.000332	0.00117	1	07/20/2017 07:11	WG1000613
Bromodichloromethane	U		0.000297	0.00117	1	07/20/2017 07:11	WG1000613
Bromoform	U	J4	0.000496	0.00117	1	07/20/2017 07:11	WG1000613
Bromomethane	U		0.00157	0.00585	1	07/20/2017 07:11	WG1000613
n-Butylbenzene	U		0.000302	0.00117	1	07/20/2017 07:11	WG1000613
sec-Butylbenzene	U		0.000235	0.00117	1	07/20/2017 07:11	WG1000613
tert-Butylbenzene	U		0.000241	0.00117	1	07/20/2017 07:11	WG1000613
Carbon tetrachloride	U		0.000384	0.00117	1	07/20/2017 07:11	WG1000613
Chlorobenzene	U		0.000248	0.00117	1	07/20/2017 07:11	WG1000613
Chlorodibromomethane	U		0.000436	0.00117	1	07/20/2017 07:11	WG1000613
Chloroethane	U		0.00111	0.00585	1	07/20/2017 07:11	WG1000613
Chloroform	U		0.000268	0.00585	1	07/20/2017 07:11	WG1000613
Chloromethane	U		0.000439	0.00293	1	07/20/2017 07:11	WG1000613
2-Chlorotoluene	U		0.000352	0.00117	1	07/20/2017 07:11	WG1000613
4-Chlorotoluene	U		0.000281	0.00117	1	07/20/2017 07:11	WG1000613
1,2-Dibromo-3-Chloropropane	U		0.00123	0.00585	1	07/20/2017 07:11	WG1000613
1,2-Dibromoethane	U		0.000401	0.00117	1	07/20/2017 07:11	WG1000613
Dibromomethane	U		0.000447	0.00117	1	07/20/2017 07:11	WG1000613
1,2-Dichlorobenzene	U		0.000357	0.00117	1	07/20/2017 07:11	WG1000613
1,3-Dichlorobenzene	U	J3	0.000280	0.00117	1	07/20/2017 07:11	WG1000613
1,4-Dichlorobenzene	U		0.000264	0.00117	1	07/20/2017 07:11	WG1000613
Dichlorodifluoromethane	U		0.000834	0.00585	1	07/20/2017 07:11	WG1000613
1,1-Dichloroethane	U		0.000233	0.00117	1	07/20/2017 07:11	WG1000613
1,2-Dichloroethane	U		0.000310	0.00117	1	07/20/2017 07:11	WG1000613
1,1-Dichloroethene	U		0.000355	0.00117	1	07/20/2017 07:11	WG1000613
cis-1,2-Dichloroethene	U		0.000275	0.00117	1	07/20/2017 07:11	WG1000613
trans-1,2-Dichloroethene	U		0.000309	0.00117	1	07/20/2017 07:11	WG1000613
1,2-Dichloropropane	U		0.000419	0.00117	1	07/20/2017 07:11	WG1000613
1,1-Dichloropropene	U		0.000371	0.00117	1	07/20/2017 07:11	WG1000613
1,3-Dichloropropane	U		0.000242	0.00117	1	07/20/2017 07:11	WG1000613
cis-1,3-Dichloropropene	U		0.000307	0.00117	1	07/20/2017 07:11	WG1000613
trans-1,3-Dichloropropene	U		0.000312	0.00117	1	07/20/2017 07:11	WG1000613
2,2-Dichloropropane	U		0.000326	0.00117	1	07/20/2017 07:11	WG1000613
Di-isopropyl ether	U		0.000290	0.00117	1	07/20/2017 07:11	WG1000613
Ethylbenzene	U		0.000348	0.00117	1	07/20/2017 07:11	WG1000613
Hexachloro-1,3-butadiene	U		0.000400	0.00117	1	07/20/2017 07:11	WG1000613
Isopropylbenzene	U		0.000284	0.00117	1	07/20/2017 07:11	WG1000613
p-Isopropyltoluene	U		0.000239	0.00117	1	07/20/2017 07:11	WG1000613
2-Butanone (MEK)	U		0.00548	0.0117	1	07/20/2017 07:11	WG1000613
Methylene Chloride	U		0.00117	0.00585	1	07/20/2017 07:11	WG1000613
4-Methyl-2-pentanone (MIBK)	U		0.00220	0.0117	1	07/20/2017 07:11	WG1000613
Methyl tert-butyl ether	U		0.000248	0.00117	1	07/20/2017 07:11	WG1000613
Naphthalene	U	J6	0.00117	0.00585	1	07/20/2017 07:11	WG1000613
n-Propylbenzene	U		0.000241	0.00117	1	07/20/2017 07:11	WG1000613
Styrene	U	J3 J6	0.000274	0.00117	1	07/20/2017 07:11	WG1000613
1,1,1,2-Tetrachloroethane	U		0.000309	0.00117	1	07/20/2017 07:11	WG1000613
1,1,2,2-Tetrachloroethane	U		0.000427	0.00117	1	07/20/2017 07:11	WG1000613

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.000427	0.00117	1	07/20/2017 07:11	WG1000613
Tetrachloroethene	U		0.000323	0.00117	1	07/20/2017 07:11	WG1000613
Toluene	0.00228	J	0.000508	0.00585	1	07/20/2017 07:11	WG1000613
1,2,3-Trichlorobenzene	U	J6	0.000358	0.00117	1	07/20/2017 07:11	WG1000613
1,2,4-Trichlorobenzene	U	J6	0.000454	0.00117	1	07/20/2017 07:11	WG1000613
1,1,1-Trichloroethane	U		0.000335	0.00117	1	07/20/2017 07:11	WG1000613
1,1,2-Trichloroethane	U		0.000324	0.00117	1	07/20/2017 07:11	WG1000613
Trichloroethene	U		0.000326	0.00117	1	07/20/2017 19:31	WG1000613
Trichlorofluoromethane	U		0.000447	0.00585	1	07/20/2017 07:11	WG1000613
1,2,3-Trichloropropane	U		0.000867	0.00293	1	07/20/2017 07:11	WG1000613
1,2,4-Trimethylbenzene	U		0.000247	0.00117	1	07/20/2017 07:11	WG1000613
1,2,3-Trimethylbenzene	U		0.000336	0.00117	1	07/20/2017 07:11	WG1000613
Vinyl chloride	U		0.000341	0.00117	1	07/20/2017 07:11	WG1000613
1,3,5-Trimethylbenzene	U		0.000311	0.00117	1	07/20/2017 07:11	WG1000613
Xylenes, Total	U		0.000817	0.00351	1	07/20/2017 07:11	WG1000613
(S) Toluene-d8	*105*			*80.0-120*		*07/20/2017 19:31*	WG1000613
(S) Toluene-d8	*105*			*80.0-120*		*07/20/2017 07:11*	WG1000613
(S) Dibromofluoromethane	*103*			*74.0-131*		*07/20/2017 07:11*	WG1000613
(S) Dibromofluoromethane	*103*			*74.0-131*		*07/20/2017 19:31*	WG1000613
(S) 4-Bromofluorobenzene	*89.4*			*64.0-132*		*07/20/2017 19:31*	WG1000613
(S) 4-Bromofluorobenzene	*92.0*			*64.0-132*		*07/20/2017 07:11*	WG1000613

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	86.6		1	07/19/2017 15:11	WG1000518

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	0.0308	J J3	0.0115	0.0577	1	07/20/2017 07:32	WG1000613
Acrylonitrile	U		0.00207	0.0115	1	07/20/2017 07:32	WG1000613
Benzene	0.000763	J	0.000312	0.00115	1	07/20/2017 07:32	WG1000613
Bromobenzene	U		0.000328	0.00115	1	07/20/2017 07:32	WG1000613
Bromodichloromethane	U		0.000293	0.00115	1	07/20/2017 07:32	WG1000613
Bromoform	U	J4	0.000489	0.00115	1	07/20/2017 07:32	WG1000613
Bromomethane	U		0.00155	0.00577	1	07/20/2017 07:32	WG1000613
n-Butylbenzene	U		0.000298	0.00115	1	07/20/2017 07:32	WG1000613
sec-Butylbenzene	U		0.000232	0.00115	1	07/20/2017 07:32	WG1000613
tert-Butylbenzene	U		0.000238	0.00115	1	07/20/2017 07:32	WG1000613
Carbon tetrachloride	U		0.000379	0.00115	1	07/20/2017 07:32	WG1000613
Chlorobenzene	U		0.000245	0.00115	1	07/20/2017 07:32	WG1000613
Chlorodibromomethane	U		0.000431	0.00115	1	07/20/2017 07:32	WG1000613
Chloroethane	U		0.00109	0.00577	1	07/20/2017 07:32	WG1000613
Chloroform	U		0.000264	0.00577	1	07/20/2017 07:32	WG1000613
Chloromethane	U		0.000433	0.00289	1	07/20/2017 07:32	WG1000613
2-Chlorotoluene	U		0.000347	0.00115	1	07/20/2017 07:32	WG1000613
4-Chlorotoluene	U		0.000277	0.00115	1	07/20/2017 07:32	WG1000613
1,2-Dibromo-3-Chloropropane	U		0.00121	0.00577	1	07/20/2017 07:32	WG1000613
1,2-Dibromoethane	U		0.000396	0.00115	1	07/20/2017 07:32	WG1000613
Dibromomethane	U		0.000441	0.00115	1	07/20/2017 07:32	WG1000613
1,2-Dichlorobenzene	U		0.000352	0.00115	1	07/20/2017 07:32	WG1000613
1,3-Dichlorobenzene	U		0.000276	0.00115	1	07/20/2017 07:32	WG1000613
1,4-Dichlorobenzene	U		0.000261	0.00115	1	07/20/2017 07:32	WG1000613
Dichlorodifluoromethane	U		0.000823	0.00577	1	07/20/2017 07:32	WG1000613
1,1-Dichloroethane	U		0.000230	0.00115	1	07/20/2017 07:32	WG1000613
1,2-Dichloroethane	U		0.000306	0.00115	1	07/20/2017 07:32	WG1000613
1,1-Dichloroethene	U		0.000350	0.00115	1	07/20/2017 07:32	WG1000613
cis-1,2-Dichloroethene	U		0.000271	0.00115	1	07/20/2017 07:32	WG1000613
trans-1,2-Dichloroethene	U		0.000305	0.00115	1	07/20/2017 07:32	WG1000613
1,2-Dichloropropane	U		0.000413	0.00115	1	07/20/2017 07:32	WG1000613
1,1-Dichloropropene	U		0.000366	0.00115	1	07/20/2017 07:32	WG1000613
1,3-Dichloropropane	U		0.000239	0.00115	1	07/20/2017 07:32	WG1000613
cis-1,3-Dichloropropene	U		0.000302	0.00115	1	07/20/2017 07:32	WG1000613
trans-1,3-Dichloropropene	U		0.000308	0.00115	1	07/20/2017 07:32	WG1000613
2,2-Dichloropropane	U		0.000322	0.00115	1	07/20/2017 07:32	WG1000613
Di-isopropyl ether	U		0.000286	0.00115	1	07/20/2017 07:32	WG1000613
Ethylbenzene	U		0.000343	0.00115	1	07/20/2017 07:32	WG1000613
Hexachloro-1,3-butadiene	U		0.000395	0.00115	1	07/20/2017 07:32	WG1000613
Isopropylbenzene	U		0.000281	0.00115	1	07/20/2017 07:32	WG1000613
p-Isopropyltoluene	U		0.000236	0.00115	1	07/20/2017 07:32	WG1000613
2-Butanone (MEK)	U		0.00540	0.0115	1	07/20/2017 07:32	WG1000613
Methylene Chloride	U		0.00115	0.00577	1	07/20/2017 07:32	WG1000613
4-Methyl-2-pentanone (MIBK)	U		0.00217	0.0115	1	07/20/2017 07:32	WG1000613
Methyl tert-butyl ether	U		0.000245	0.00115	1	07/20/2017 07:32	WG1000613
Naphthalene	U		0.00115	0.00577	1	07/20/2017 07:32	WG1000613
n-Propylbenzene	U		0.000238	0.00115	1	07/20/2017 07:32	WG1000613
Styrene	U		0.000270	0.00115	1	07/20/2017 07:32	WG1000613
1,1,1,2-Tetrachloroethane	U		0.000305	0.00115	1	07/20/2017 07:32	WG1000613
1,1,2,2-Tetrachloroethane	U		0.000421	0.00115	1	07/20/2017 07:32	WG1000613

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.000421	0.00115	1	07/20/2017 07:32	WG1000613
Tetrachloroethene	U		0.000319	0.00115	1	07/20/2017 07:32	WG1000613
Toluene	0.00277	J	0.000501	0.00577	1	07/20/2017 07:32	WG1000613
1,2,3-Trichlorobenzene	U		0.000353	0.00115	1	07/20/2017 07:32	WG1000613
1,2,4-Trichlorobenzene	U		0.000448	0.00115	1	07/20/2017 07:32	WG1000613
1,1,1-Trichloroethane	U		0.000330	0.00115	1	07/20/2017 07:32	WG1000613
1,1,2-Trichloroethane	U		0.000320	0.00115	1	07/20/2017 07:32	WG1000613
Trichloroethene	U		0.000322	0.00115	1	07/20/2017 19:51	WG1000613
Trichlorofluoromethane	U		0.000441	0.00577	1	07/20/2017 07:32	WG1000613
1,2,3-Trichloropropane	U		0.000855	0.00289	1	07/20/2017 07:32	WG1000613
1,2,4-Trimethylbenzene	U		0.000244	0.00115	1	07/20/2017 07:32	WG1000613
1,2,3-Trimethylbenzene	U		0.000331	0.00115	1	07/20/2017 07:32	WG1000613
Vinyl chloride	U		0.000336	0.00115	1	07/20/2017 07:32	WG1000613
1,3,5-Trimethylbenzene	U		0.000307	0.00115	1	07/20/2017 07:32	WG1000613
Xylenes, Total	U		0.000806	0.00346	1	07/20/2017 07:32	WG1000613
(S) Toluene-d8	*105*			*80.0-120*		*07/20/2017 19:51*	WG1000613
(S) Toluene-d8	*105*			*80.0-120*		*07/20/2017 07:32*	WG1000613
(S) Dibromofluoromethane	*99.4*			*74.0-131*		*07/20/2017 07:32*	WG1000613
(S) Dibromofluoromethane	*104*			*74.0-131*		*07/20/2017 19:51*	WG1000613
(S) 4-Bromofluorobenzene	*89.6*			*64.0-132*		*07/20/2017 07:32*	WG1000613
(S) 4-Bromofluorobenzene	*90.9*			*64.0-132*		*07/20/2017 19:51*	WG1000613

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	89.4		1	07/19/2017 15:11	WG1000518

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	0.0466	J J3	0.0112	0.0559	1	07/20/2017 07:52	WG1000613
Acrylonitrile	U		0.00200	0.0112	1	07/20/2017 07:52	WG1000613
Benzene	0.000600	J	0.000302	0.00112	1	07/20/2017 07:52	WG1000613
Bromobenzene	U		0.000318	0.00112	1	07/20/2017 07:52	WG1000613
Bromodichloromethane	U		0.000284	0.00112	1	07/20/2017 07:52	WG1000613
Bromoform	U	J4	0.000474	0.00112	1	07/20/2017 07:52	WG1000613
Bromomethane	U		0.00150	0.00559	1	07/20/2017 07:52	WG1000613
n-Butylbenzene	U		0.000289	0.00112	1	07/20/2017 07:52	WG1000613
sec-Butylbenzene	U		0.000225	0.00112	1	07/20/2017 07:52	WG1000613
tert-Butylbenzene	U		0.000230	0.00112	1	07/20/2017 07:52	WG1000613
Carbon tetrachloride	U		0.000367	0.00112	1	07/20/2017 07:52	WG1000613
Chlorobenzene	U		0.000237	0.00112	1	07/20/2017 07:52	WG1000613
Chlorodibromomethane	U		0.000417	0.00112	1	07/20/2017 07:52	WG1000613
Chloroethane	U		0.00106	0.00559	1	07/20/2017 07:52	WG1000613
Chloroform	U		0.000256	0.00559	1	07/20/2017 07:52	WG1000613
Chloromethane	U		0.000419	0.00280	1	07/20/2017 07:52	WG1000613
2-Chlorotoluene	U		0.000337	0.00112	1	07/20/2017 07:52	WG1000613
4-Chlorotoluene	U		0.000268	0.00112	1	07/20/2017 07:52	WG1000613
1,2-Dibromo-3-Chloropropane	U		0.00117	0.00559	1	07/20/2017 07:52	WG1000613
1,2-Dibromoethane	U		0.000384	0.00112	1	07/20/2017 07:52	WG1000613
Dibromomethane	U		0.000427	0.00112	1	07/20/2017 07:52	WG1000613
1,2-Dichlorobenzene	U		0.000341	0.00112	1	07/20/2017 07:52	WG1000613
1,3-Dichlorobenzene	U		0.000267	0.00112	1	07/20/2017 07:52	WG1000613
1,4-Dichlorobenzene	U		0.000253	0.00112	1	07/20/2017 07:52	WG1000613
Dichlorodifluoromethane	U		0.000798	0.00559	1	07/20/2017 07:52	WG1000613
1,1-Dichloroethane	U		0.000223	0.00112	1	07/20/2017 07:52	WG1000613
1,2-Dichloroethane	U		0.000296	0.00112	1	07/20/2017 07:52	WG1000613
1,1-Dichloroethene	U		0.000339	0.00112	1	07/20/2017 07:52	WG1000613
cis-1,2-Dichloroethene	U		0.000263	0.00112	1	07/20/2017 07:52	WG1000613
trans-1,2-Dichloroethene	U		0.000295	0.00112	1	07/20/2017 07:52	WG1000613
1,2-Dichloropropane	U		0.000400	0.00112	1	07/20/2017 07:52	WG1000613
1,1-Dichloropropene	U		0.000355	0.00112	1	07/20/2017 07:52	WG1000613
1,3-Dichloropropane	U		0.000232	0.00112	1	07/20/2017 07:52	WG1000613
cis-1,3-Dichloropropene	U		0.000293	0.00112	1	07/20/2017 07:52	WG1000613
trans-1,3-Dichloropropene	U		0.000299	0.00112	1	07/20/2017 07:52	WG1000613
2,2-Dichloropropane	U		0.000312	0.00112	1	07/20/2017 07:52	WG1000613
Di-isopropyl ether	U		0.000277	0.00112	1	07/20/2017 07:52	WG1000613
Ethylbenzene	U		0.000332	0.00112	1	07/20/2017 07:52	WG1000613
Hexachloro-1,3-butadiene	U		0.000383	0.00112	1	07/20/2017 07:52	WG1000613
Isopropylbenzene	U		0.000272	0.00112	1	07/20/2017 07:52	WG1000613
p-Isopropyltoluene	U		0.000228	0.00112	1	07/20/2017 07:52	WG1000613
2-Butanone (MEK)	U		0.00524	0.0112	1	07/20/2017 07:52	WG1000613
Methylene Chloride	U		0.00112	0.00559	1	07/20/2017 07:52	WG1000613
4-Methyl-2-pentanone (MIBK)	U		0.00210	0.0112	1	07/20/2017 07:52	WG1000613
Methyl tert-butyl ether	U		0.000237	0.00112	1	07/20/2017 07:52	WG1000613
Naphthalene	U		0.00112	0.00559	1	07/20/2017 07:52	WG1000613
n-Propylbenzene	U		0.000230	0.00112	1	07/20/2017 07:52	WG1000613
Styrene	U		0.000262	0.00112	1	07/20/2017 07:52	WG1000613
1,1,1,2-Tetrachloroethane	U		0.000295	0.00112	1	07/20/2017 07:52	WG1000613
1,1,2,2-Tetrachloroethane	U		0.000408	0.00112	1	07/20/2017 07:52	WG1000613

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.000408	0.00112	1	07/20/2017 07:52	WG1000613
Tetrachloroethene	U		0.000309	0.00112	1	07/20/2017 07:52	WG1000613
Toluene	0.00196	J	0.000485	0.00559	1	07/20/2017 07:52	WG1000613
1,2,3-Trichlorobenzene	U		0.000342	0.00112	1	07/20/2017 07:52	WG1000613
1,2,4-Trichlorobenzene	U		0.000434	0.00112	1	07/20/2017 07:52	WG1000613
1,1,1-Trichloroethane	U		0.000320	0.00112	1	07/20/2017 07:52	WG1000613
1,1,2-Trichloroethane	U		0.000310	0.00112	1	07/20/2017 07:52	WG1000613
Trichloroethene	U		0.000312	0.00112	1	07/20/2017 20:11	WG1000613
Trichlorofluoromethane	U		0.000427	0.00559	1	07/20/2017 07:52	WG1000613
1,2,3-Trichloropropane	U		0.000829	0.00280	1	07/20/2017 07:52	WG1000613
1,2,4-Trimethylbenzene	U		0.000236	0.00112	1	07/20/2017 07:52	WG1000613
1,2,3-Trimethylbenzene	U		0.000321	0.00112	1	07/20/2017 07:52	WG1000613
Vinyl chloride	U		0.000326	0.00112	1	07/20/2017 07:52	WG1000613
1,3,5-Trimethylbenzene	U		0.000298	0.00112	1	07/20/2017 07:52	WG1000613
Xylenes, Total	U		0.000781	0.00336	1	07/20/2017 07:52	WG1000613
(S) Toluene-d8	*105*			*80.0-120*		*07/20/2017 20:11*	WG1000613
(S) Toluene-d8	*106*			*80.0-120*		*07/20/2017 07:52*	WG1000613
(S) Dibromofluoromethane	*102*			*74.0-131*		*07/20/2017 07:52*	WG1000613
(S) Dibromofluoromethane	*97.8*			*74.0-131*		*07/20/2017 20:11*	WG1000613
(S) 4-Bromofluorobenzene	*84.9*			*64.0-132*		*07/20/2017 20:11*	WG1000613
(S) 4-Bromofluorobenzene	*92.5*			*64.0-132*		*07/20/2017 07:52*	WG1000613

Calculated Results

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chromium,Trivalent	10.9		0.157	1.12	1	07/26/2017 15:31	WG1002245

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	89.4		1	07/19/2017 15:11	WG1000518

Wet Chemistry by Method 3060A/7196A

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chromium,Hexavalent	1.57	J	0.716	2.24	1	07/21/2017 14:36	WG1000369

Wet Chemistry by Method 9012B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Cyanide	U		0.0436	0.280	1	07/24/2017 21:29	WG1001620

Mercury by Method 7471A

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Mercury	0.0178	J	0.00313	0.0224	1	07/20/2017 09:54	WG1000398

Metals (ICP) by Method 6010B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Arsenic	5.78		0.727	2.24	1	07/26/2017 15:31	WG1002245
Barium	67.3		0.190	0.559	1	07/26/2017 15:31	WG1002245
Beryllium	0.443		0.0783	0.224	1	07/26/2017 15:31	WG1002245
Cadmium	0.163	J	0.0783	0.559	1	07/26/2017 15:31	WG1002245
Chromium	12.4		0.157	1.12	1	07/26/2017 15:31	WG1002245
Copper	20.7		0.593	2.24	1	07/26/2017 15:31	WG1002245
Lead	17.6		0.213	0.559	1	07/26/2017 15:31	WG1002245
Manganese	435		0.134	1.12	1	07/26/2017 15:31	WG1002245
Nickel	20.4		0.548	2.24	1	07/26/2017 15:31	WG1002245
Silver	U		0.313	1.12	1	07/26/2017 15:31	WG1002245
Zinc	61.7		0.660	5.59	1	07/26/2017 15:31	WG1002245

Pesticides (GC) by Method 8081

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Aldrin	U		0.00151	0.0224	1	07/24/2017 17:59	WG1000657
Alpha BHC	U		0.00152	0.0224	1	07/24/2017 17:59	WG1000657
Beta BHC	U		0.00179	0.0224	1	07/24/2017 17:59	WG1000657
Delta BHC	U		0.00160	0.0224	1	07/24/2017 17:59	WG1000657
Gamma BHC	U		0.00162	0.0224	1	07/24/2017 17:59	WG1000657
Chlordane	U		0.0436	0.224	1	07/24/2017 17:59	WG1000657
4,4-DDD	U		0.00175	0.0224	1	07/24/2017 17:59	WG1000657
4,4-DDE	U		0.00172	0.0224	1	07/24/2017 17:59	WG1000657
4,4-DDT	U		0.00224	0.0224	1	07/24/2017 17:59	WG1000657
Dieldrin	U		0.00170	0.0224	1	07/24/2017 17:59	WG1000657
Endosulfan I	U		0.00167	0.0224	1	07/24/2017 17:59	WG1000657
Endosulfan II	U		0.00179	0.0224	1	07/24/2017 17:59	WG1000657
Endosulfan sulfate	U		0.00169	0.0224	1	07/24/2017 17:59	WG1000657

Pesticides (GC) by Method 8081

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Endrin	U		0.00176	0.0224	1	07/24/2017 17:59	WG1000657
Endrin aldehyde	U		0.00144	0.0224	1	07/24/2017 17:59	WG1000657
Endrin ketone	U		0.00185	0.0224	1	07/24/2017 17:59	WG1000657
Heptachlor	U		0.00172	0.0224	1	07/24/2017 17:59	WG1000657
Heptachlor epoxide	0.00183	J	0.00180	0.0224	1	07/24/2017 17:59	WG1000657
Hexachlorobenzene	U		0.00139	0.0224	1	07/24/2017 17:59	WG1000657
Methoxychlor	U		0.00199	0.0224	1	07/24/2017 17:59	WG1000657
Toxaphene	U		0.0403	0.448	1	07/24/2017 17:59	WG1000657
(S) Decachlorobiphenyl	*74.1*			*10.0-148*		*07/24/2017 17:59*	WG1000657
(S) Tetrachloro-m-xylene	*76.0*			*21.0-146*		*07/24/2017 17:59*	WG1000657

Polychlorinated Biphenyls (GC) by Method 8082

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
PCB 1016	U		0.00392	0.0190	1	07/24/2017 16:14	WG1000657
PCB 1221	U		0.00601	0.0190	1	07/24/2017 16:14	WG1000657
PCB 1232	U		0.00467	0.0190	1	07/24/2017 16:14	WG1000657
PCB 1242	U		0.00356	0.0190	1	07/24/2017 16:14	WG1000657
PCB 1248	U		0.00352	0.0190	1	07/24/2017 16:14	WG1000657
PCB 1254	U		0.00528	0.0190	1	07/24/2017 16:14	WG1000657
PCB 1260	U		0.00553	0.0190	1	07/24/2017 16:14	WG1000657
(S) Decachlorobiphenyl	*93.4*			*10.0-148*		*07/24/2017 16:14*	WG1000657
(S) Tetrachloro-m-xylene	*93.5*			*21.0-146*		*07/24/2017 16:14*	WG1000657

Semi Volatile Organic Compounds (GC/MS) by Method 8270D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	U		0.00718	0.0369	1	07/24/2017 13:13	WG1002043
Acenaphthylene	0.00903	J	0.00751	0.0369	1	07/24/2017 13:13	WG1002043
Anthracene	0.00763	J	0.00707	0.0369	1	07/24/2017 13:13	WG1002043
Benzidine	U		0.0713	0.373	1	07/24/2017 13:13	WG1002043
Benzo(a)anthracene	0.0567		0.00479	0.0369	1	07/24/2017 13:13	WG1002043
Benzo(b)fluoranthene	0.0825		0.00778	0.0369	1	07/24/2017 13:13	WG1002043
Benzo(k)fluoranthene	0.0275	J	0.00651	0.0369	1	07/24/2017 13:13	WG1002043
Benzo(g,h,i)perylene	0.0361	J	0.00807	0.0369	1	07/24/2017 13:13	WG1002043
Benzo(a)pyrene	0.0585		0.00613	0.0369	1	07/24/2017 13:13	WG1002043
Bis(2-chlorethoxy)methane	U		0.00862	0.373	1	07/24/2017 13:13	WG1002043
Bis(2-chloroethyl)ether	U	J3	0.0100	0.373	1	07/24/2017 13:13	WG1002043
Bis(2-chloroisopropyl)ether	U	J3	0.00850	0.373	1	07/24/2017 13:13	WG1002043
4-Bromophenyl-phenylether	U		0.0128	0.373	1	07/24/2017 13:13	WG1002043
2-Chloronaphthalene	U	J3	0.00715	0.0369	1	07/24/2017 13:13	WG1002043
4-Chlorophenyl-phenylether	U		0.00702	0.373	1	07/24/2017 13:13	WG1002043
Chrysene	0.0646		0.00621	0.0369	1	07/24/2017 13:13	WG1002043
Dibenz(a,h)anthracene	0.0110	J	0.00919	0.0369	1	07/24/2017 13:13	WG1002043
3,3-Dichlorobenzidine	U		0.0888	0.373	1	07/24/2017 13:13	WG1002043
2,4-Dinitrotoluene	U		0.00679	0.373	1	07/24/2017 13:13	WG1002043
2,6-Dinitrotoluene	U		0.00825	0.373	1	07/24/2017 13:13	WG1002043
Fluoranthene	0.0994		0.00555	0.0369	1	07/24/2017 13:13	WG1002043
Fluorene	U		0.00763	0.0369	1	07/24/2017 13:13	WG1002043
Hexachlorobenzene	U		0.00958	0.373	1	07/24/2017 13:13	WG1002043
Hexachloro-1,3-butadiene	U	J3	0.0112	0.373	1	07/24/2017 13:13	WG1002043
Hexachlorocyclopentadiene	U	J0 J3	0.0657	0.373	1	07/24/2017 13:13	WG1002043
Hexachloroethane	U	J3	0.0150	0.373	1	07/24/2017 13:13	WG1002043
Indeno(1,2,3-cd)pyrene	0.0357	J	0.00864	0.0369	1	07/24/2017 13:13	WG1002043
Isophorone	U		0.00584	0.373	1	07/24/2017 13:13	WG1002043

Semi Volatile Organic Compounds (GC/MS) by Method 8270D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Naphthalene	U	J3	0.00995	0.0369	1	07/24/2017 13:13	WG1002043
Nitrobenzene	U	J3	0.00778	0.373	1	07/24/2017 13:13	WG1002043
n-Nitrosodimethylamine	U		0.0724	0.373	1	07/24/2017 13:13	WG1002043
n-Nitrosodiphenylamine	U		0.00665	0.373	1	07/24/2017 13:13	WG1002043
n-Nitrosodi-n-propylamine	U	J3	0.0101	0.373	1	07/24/2017 13:13	WG1002043
Phenanthrene	0.0428		0.00591	0.0369	1	07/24/2017 13:13	WG1002043
Benzylbutyl phthalate	U		0.0115	0.373	1	07/24/2017 13:13	WG1002043
Bis(2-ethylhexyl)phthalate	0.0149	J	0.0134	0.373	1	07/24/2017 13:13	WG1002043
Di-n-butyl phthalate	U		0.0122	0.373	1	07/24/2017 13:13	WG1002043
Diethyl phthalate	U		0.00773	0.373	1	07/24/2017 13:13	WG1002043
Dimethyl phthalate	U		0.00604	0.373	1	07/24/2017 13:13	WG1002043
Di-n-octyl phthalate	U		0.0101	0.373	1	07/24/2017 13:13	WG1002043
Pyrene	0.0816		0.0138	0.0369	1	07/24/2017 13:13	WG1002043
1,2,4-Trichlorobenzene	U	J3	0.00980	0.373	1	07/24/2017 13:13	WG1002043
4-Chloro-3-methylphenol	U		0.00534	0.373	1	07/24/2017 13:13	WG1002043
2-Chlorophenol	U	J3	0.00930	0.373	1	07/24/2017 13:13	WG1002043
2,4-Dichlorophenol	U		0.00835	0.373	1	07/24/2017 13:13	WG1002043
2,4-Dimethylphenol	U		0.0527	0.373	1	07/24/2017 13:13	WG1002043
4,6-Dinitro-2-methylphenol	U		0.139	0.373	1	07/24/2017 13:13	WG1002043
2,4-Dinitrophenol	U		0.110	0.373	1	07/24/2017 13:13	WG1002043
2-Nitrophenol	U	J3	0.0145	0.373	1	07/24/2017 13:13	WG1002043
4-Nitrophenol	U		0.0587	0.373	1	07/24/2017 13:13	WG1002043
Pentachlorophenol	U		0.0537	0.373	1	07/24/2017 13:13	WG1002043
Phenol	U	J3	0.00778	0.373	1	07/24/2017 13:13	WG1002043
2,4,6-Trichlorophenol	U		0.00872	0.373	1	07/24/2017 13:13	WG1002043
(S) 2-Fluorophenol	*72.2*			*20.0-120*		*07/24/2017 13:13*	WG1002043
(S) Phenol-d5	*70.9*			*20.0-120*		*07/24/2017 13:13*	WG1002043
(S) Nitrobenzene-d5	*69.0*			*18.0-125*		*07/24/2017 13:13*	WG1002043
(S) 2-Fluorobiphenyl	*75.4*			*28.0-120*		*07/24/2017 13:13*	WG1002043
(S) 2,4,6-Tribromophenol	*82.0*			*17.0-137*		*07/24/2017 13:13*	WG1002043
(S) p-Terphenyl-d14	*66.2*			*13.0-131*		*07/24/2017 13:13*	WG1002043

Calculated Results

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chromium,Trivalent	11.0		0.157	1.12	1	07/26/2017 15:42	WG1002245

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	89.3		1	07/19/2017 15:11	WG1000518

Wet Chemistry by Method 3060A/7196A

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chromium,Hexavalent	1.08	J	0.717	2.24	1	07/21/2017 14:36	WG1000369

Wet Chemistry by Method 9012B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Cyanide	U		0.0437	0.280	1	07/24/2017 21:30	WG1001620

Mercury by Method 7471A

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Mercury	0.0178	J	0.00314	0.0224	1	07/20/2017 09:57	WG1000398

Metals (ICP) by Method 6010B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Arsenic	5.76		0.728	2.24	1	07/26/2017 15:42	WG1002245
Barium	67.8		0.190	0.560	1	07/26/2017 15:42	WG1002245
Beryllium	0.420		0.0784	0.224	1	07/26/2017 15:42	WG1002245
Cadmium	0.182	J	0.0784	0.560	1	07/26/2017 15:42	WG1002245
Chromium	12.1		0.157	1.12	1	07/26/2017 15:42	WG1002245
Copper	18.7		0.594	2.24	1	07/26/2017 15:42	WG1002245
Lead	15.9		0.213	0.560	1	07/26/2017 15:42	WG1002245
Manganese	402		0.134	1.12	1	07/26/2017 15:42	WG1002245
Nickel	19.9		0.549	2.24	1	07/26/2017 15:42	WG1002245
Silver	U		0.314	1.12	1	07/26/2017 15:42	WG1002245
Zinc	57.8		0.661	5.60	1	07/26/2017 15:42	WG1002245

Pesticides (GC) by Method 8081

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Aldrin	U		0.00151	0.0224	1	07/24/2017 18:12	WG1000657
Alpha BHC	U		0.00152	0.0224	1	07/24/2017 18:12	WG1000657
Beta BHC	U		0.00179	0.0224	1	07/24/2017 18:12	WG1000657
Delta BHC	U		0.00160	0.0224	1	07/24/2017 18:12	WG1000657
Gamma BHC	U		0.00162	0.0224	1	07/24/2017 18:12	WG1000657
Chlordane	U		0.0437	0.224	1	07/24/2017 18:12	WG1000657
4,4-DDD	U		0.00175	0.0224	1	07/24/2017 18:12	WG1000657
4,4-DDE	U		0.00173	0.0224	1	07/24/2017 18:12	WG1000657
4,4-DDT	U		0.00224	0.0224	1	07/24/2017 18:12	WG1000657
Dieldrin	U		0.00170	0.0224	1	07/24/2017 18:12	WG1000657
Endosulfan I	U		0.00167	0.0224	1	07/24/2017 18:12	WG1000657
Endosulfan II	U		0.00179	0.0224	1	07/24/2017 18:12	WG1000657
Endosulfan sulfate	U		0.00169	0.0224	1	07/24/2017 18:12	WG1000657

Pesticides (GC) by Method 8081

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Endrin	U		0.00176	0.0224	1	07/24/2017 18:12	WG1000657
Endrin aldehyde	U		0.00145	0.0224	1	07/24/2017 18:12	WG1000657
Endrin ketone	U		0.00185	0.0224	1	07/24/2017 18:12	WG1000657
Heptachlor	U		0.00173	0.0224	1	07/24/2017 18:12	WG1000657
Heptachlor epoxide	0.00206	J	0.00180	0.0224	1	07/24/2017 18:12	WG1000657
Hexachlorobenzene	U		0.00139	0.0224	1	07/24/2017 18:12	WG1000657
Methoxychlor	U		0.00199	0.0224	1	07/24/2017 18:12	WG1000657
Toxaphene	U		0.0403	0.448	1	07/24/2017 18:12	WG1000657
(S) Decachlorobiphenyl	*80.4*			*10.0-148*		*07/24/2017 18:12*	WG1000657
(S) Tetrachloro-m-xylene	*82.7*			*21.0-146*		*07/24/2017 18:12*	WG1000657

Polychlorinated Biphenyls (GC) by Method 8082

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
PCB 1016	U		0.00392	0.0190	1	07/24/2017 16:26	WG1000657
PCB 1221	U		0.00602	0.0190	1	07/24/2017 16:26	WG1000657
PCB 1232	U		0.00467	0.0190	1	07/24/2017 16:26	WG1000657
PCB 1242	U		0.00356	0.0190	1	07/24/2017 16:26	WG1000657
PCB 1248	U		0.00353	0.0190	1	07/24/2017 16:26	WG1000657
PCB 1254	U		0.00529	0.0190	1	07/24/2017 16:26	WG1000657
PCB 1260	U		0.00553	0.0190	1	07/24/2017 16:26	WG1000657
(S) Decachlorobiphenyl	*108*			*10.0-148*		*07/24/2017 16:26*	WG1000657
(S) Tetrachloro-m-xylene	*98.0*			*21.0-146*		*07/24/2017 16:26*	WG1000657

Semi Volatile Organic Compounds (GC/MS) by Method 8270D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	U		0.00719	0.0370	1	07/24/2017 13:37	WG1002043
Acenaphthylene	U		0.00752	0.0370	1	07/24/2017 13:37	WG1002043
Anthracene	0.0105	J	0.00708	0.0370	1	07/24/2017 13:37	WG1002043
Benzidine	U		0.0714	0.373	1	07/24/2017 13:37	WG1002043
Benzo(a)anthracene	0.0573		0.00479	0.0370	1	07/24/2017 13:37	WG1002043
Benzo(b)fluoranthene	0.0708		0.00779	0.0370	1	07/24/2017 13:37	WG1002043
Benzo(k)fluoranthene	0.0221	J	0.00652	0.0370	1	07/24/2017 13:37	WG1002043
Benzo(g,h,i)perylene	0.0260	J	0.00808	0.0370	1	07/24/2017 13:37	WG1002043
Benzo(a)pyrene	0.0522		0.00614	0.0370	1	07/24/2017 13:37	WG1002043
Bis(2-chlorethoxy)methane	U		0.00863	0.373	1	07/24/2017 13:37	WG1002043
Bis(2-chloroethyl)ether	U	J3	0.0100	0.373	1	07/24/2017 13:37	WG1002043
Bis(2-chloroisopropyl)ether	U	J3	0.00851	0.373	1	07/24/2017 13:37	WG1002043
4-Bromophenyl-phenylether	U		0.0128	0.373	1	07/24/2017 13:37	WG1002043
2-Chloronaphthalene	U	J3	0.00716	0.0370	1	07/24/2017 13:37	WG1002043
4-Chlorophenyl-phenylether	U		0.00702	0.373	1	07/24/2017 13:37	WG1002043
Chrysene	0.0598		0.00622	0.0370	1	07/24/2017 13:37	WG1002043
Dibenz(a,h)anthracene	U		0.00920	0.0370	1	07/24/2017 13:37	WG1002043
3,3-Dichlorobenzidine	U		0.0890	0.373	1	07/24/2017 13:37	WG1002043
2,4-Dinitrotoluene	U		0.00680	0.373	1	07/24/2017 13:37	WG1002043
2,6-Dinitrotoluene	U		0.00826	0.373	1	07/24/2017 13:37	WG1002043
Fluoranthene	0.108		0.00556	0.0370	1	07/24/2017 13:37	WG1002043
Fluorene	U		0.00764	0.0370	1	07/24/2017 13:37	WG1002043
Hexachlorobenzene	U		0.00959	0.373	1	07/24/2017 13:37	WG1002043
Hexachloro-1,3-butadiene	U	J3	0.0112	0.373	1	07/24/2017 13:37	WG1002043
Hexachlorocyclopentadiene	U	J0 J3	0.0658	0.373	1	07/24/2017 13:37	WG1002043
Hexachloroethane	U	J3	0.0150	0.373	1	07/24/2017 13:37	WG1002043
Indeno(1,2,3-cd)pyrene	0.0241	J	0.00865	0.0370	1	07/24/2017 13:37	WG1002043
Isophorone	U		0.00585	0.373	1	07/24/2017 13:37	WG1002043

Semi Volatile Organic Compounds (GC/MS) by Method 8270D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Naphthalene	U	J3	0.00996	0.0370	1	07/24/2017 13:37	WG1002043
Nitrobenzene	U	J3	0.00779	0.373	1	07/24/2017 13:37	WG1002043
n-Nitrosodimethylamine	U		0.0725	0.373	1	07/24/2017 13:37	WG1002043
n-Nitrosodiphenylamine	U		0.00665	0.373	1	07/24/2017 13:37	WG1002043
n-Nitrosodi-n-propylamine	U	J3	0.0101	0.373	1	07/24/2017 13:37	WG1002043
Phenanthrene	0.0511		0.00592	0.0370	1	07/24/2017 13:37	WG1002043
Benzylbutyl phthalate	U		0.0115	0.373	1	07/24/2017 13:37	WG1002043
Bis(2-ethylhexyl)phthalate	0.0188	J	0.0134	0.373	1	07/24/2017 13:37	WG1002043
Di-n-butyl phthalate	U		0.0122	0.373	1	07/24/2017 13:37	WG1002043
Diethyl phthalate	U		0.00774	0.373	1	07/24/2017 13:37	WG1002043
Dimethyl phthalate	U		0.00605	0.373	1	07/24/2017 13:37	WG1002043
Di-n-octyl phthalate	U		0.0102	0.373	1	07/24/2017 13:37	WG1002043
Pyrene	0.0863		0.0138	0.0370	1	07/24/2017 13:37	WG1002043
1,2,4-Trichlorobenzene	U	J3	0.00981	0.373	1	07/24/2017 13:37	WG1002043
4-Chloro-3-methylphenol	U		0.00534	0.373	1	07/24/2017 13:37	WG1002043
2-Chlorophenol	U	J3	0.00931	0.373	1	07/24/2017 13:37	WG1002043
2,4-Dichlorophenol	U		0.00836	0.373	1	07/24/2017 13:37	WG1002043
2,4-Dimethylphenol	U		0.0528	0.373	1	07/24/2017 13:37	WG1002043
4,6-Dinitro-2-methylphenol	U		0.139	0.373	1	07/24/2017 13:37	WG1002043
2,4-Dinitrophenol	U		0.110	0.373	1	07/24/2017 13:37	WG1002043
2-Nitrophenol	U	J3	0.0146	0.373	1	07/24/2017 13:37	WG1002043
4-Nitrophenol	U		0.0588	0.373	1	07/24/2017 13:37	WG1002043
Pentachlorophenol	U		0.0538	0.373	1	07/24/2017 13:37	WG1002043
Phenol	U	J3	0.00779	0.373	1	07/24/2017 13:37	WG1002043
2,4,6-Trichlorophenol	U		0.00873	0.373	1	07/24/2017 13:37	WG1002043
(S) 2-Fluorophenol	*71.8*			*20.0-120*		*07/24/2017 13:37*	WG1002043
(S) Phenol-d5	*70.8*			*20.0-120*		*07/24/2017 13:37*	WG1002043
(S) Nitrobenzene-d5	*70.2*			*18.0-125*		*07/24/2017 13:37*	WG1002043
(S) 2-Fluorobiphenyl	*79.3*			*28.0-120*		*07/24/2017 13:37*	WG1002043
(S) 2,4,6-Tribromophenol	*84.3*			*17.0-137*		*07/24/2017 13:37*	WG1002043
(S) p-Terphenyl-d14	*65.8*			*13.0-131*		*07/24/2017 13:37*	WG1002043

Method Blank (MB)

(MB) R3234689-1 07/19/17 15:23

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.00140			

L923206-04 Original Sample (OS) • Duplicate (DUP)

(OS) L923206-04 07/19/17 15:23 • (DUP) R3234689-3 07/19/17 15:23

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	88.4	88.4	1	0.0601		5

Laboratory Control Sample (LCS)

(LCS) R3234689-2 07/19/17 15:23

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	99.9	85.0-115	

Method Blank (MB)

(MB) R3234694-1 07/19/17 15:11

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.000200			

L923206-06 Original Sample (OS) • Duplicate (DUP)

(OS) L923206-06 07/19/17 15:11 • (DUP) R3234694-3 07/19/17 15:11

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	90.5	90.5	1	0.0441		5

Laboratory Control Sample (LCS)

(LCS) R3234694-2 07/19/17 15:11

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3235236-1 07/21/17 14:33

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Chromium,Hexavalent	U		0.64	2.00

L923500-04 Original Sample (OS) • Duplicate (DUP)

(OS) L923500-04 07/21/17 14:41 • (DUP) R3235236-4 07/21/17 14:41

Analyte	Original Result mg/kg	DUP Result mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chromium,Hexavalent	U	0.000	1	0		20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3235236-2 07/21/17 14:34 • (LCSD) R3235236-3 07/21/17 14:34

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Chromium,Hexavalent	56.9	50.0	50.2	88	88	80-120			0	20

Method Blank (MB)

(MB) R3235253-1 07/21/17 15:01

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/kg		mg/kg	mg/kg
Chromium,Hexavalent	U		0.64	2.00

L921164-05 Original Sample (OS) • Duplicate (DUP)

(OS) L921164-05 07/21/17 15:07 • (DUP) R3235253-4 07/21/17 15:07

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/kg	mg/kg		%		%
Chromium,Hexavalent	ND	1.36	1	0		20

L923500-22 Original Sample (OS) • Duplicate (DUP)

(OS) L923500-22 07/21/17 15:19 • (DUP) R3235253-9 07/21/17 15:20

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/kg	mg/kg		%		%
Chromium,Hexavalent	4.04	4.08	1	1		20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3235253-2 07/21/17 15:01 • (LCSD) R3235253-3 07/21/17 15:01

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/kg	mg/kg	mg/kg	%	%	%			%	%
Chromium,Hexavalent	56.9	53.6	53.4	94	94	80-120			0	20

L923206-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L923206-01 07/21/17 15:07 • (MS) R3235253-5 07/21/17 15:08 • (MSD) R3235253-6 07/21/17 15:08

Analyte	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Chromium,Hexavalent	22.7	1.41	8.77	8.86	32	33	1	75-125	J6	J6	1	20

Sample Narrative:

OS: sample is reducer

Method Blank (MB)

(MB) R3235767-1 07/24/17 21:09

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Cyanide	U		0.039	0.250

L923500-01 Original Sample (OS) • Duplicate (DUP)

(OS) L923500-01 07/24/17 21:34 • (DUP) R3235767-6 07/24/17 21:35

Analyte	Original Result mg/kg	DUP Result mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Cyanide	0.262	0.237	1	10	J	20

L923500-05 Original Sample (OS) • Duplicate (DUP)

(OS) L923500-05 07/24/17 21:41 • (DUP) R3235767-7 07/24/17 21:42

Analyte	Original Result mg/kg	DUP Result mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Cyanide	U	0.000	1	0		20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3235767-2 07/24/17 21:10 • (LCSD) R3235767-3 07/24/17 21:11

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Cyanide	2.50	2.37	2.22	95	89	50-150			7	20

L923206-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L923206-01 07/24/17 21:53 • (MS) R3235767-4 07/24/17 21:27 • (MSD) R3235767-5 07/24/17 21:28

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Cyanide	3.78	0.0505	1.67	1.57	43	40	1	75-125	J6	J6	6	20

Method Blank (MB)

(MB) R3234767-1 07/20/17 09:17

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/kg		mg/kg	mg/kg
Mercury	U		0.0028	0.0200

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3234767-2 07/20/17 09:19 • (LCSD) R3234767-3 07/20/17 09:21

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/kg	mg/kg	mg/kg	%	%	%			%	%
Mercury	0.300	0.254	0.244	85	81	80-120			4	20

L923206-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L923206-01 07/20/17 09:24 • (MS) R3234767-4 07/20/17 09:26 • (MSD) R3234767-5 07/20/17 09:28

Analyte	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Mercury	0.341	0.0219	0.329	0.319	90	87	1	75-125			3	20

Method Blank (MB)

(MB) R3236430-1 07/26/17 15:11

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Arsenic	U		0.65	2.00
Barium	U		0.17	0.500
Beryllium	U		0.07	0.200
Cadmium	U		0.07	0.500
Chromium	U		0.14	1.00
Copper	U		0.53	2.00
Lead	U		0.19	0.500
Manganese	U		0.12	1.00
Nickel	U		0.49	2.00
Silver	U		0.28	1.00
Zinc	U		0.59	5.00

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3236430-2 07/26/17 15:14 • (LCSD) R3236430-3 07/26/17 15:16

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Arsenic	100	96.0	102	96	102	80-120			6	20
Barium	100	98.3	104	98	104	80-120			6	20
Beryllium	100	98.9	105	99	105	80-120			6	20
Cadmium	100	93.3	99.1	93	99	80-120			6	20
Chromium	100	95.9	101	96	101	80-120			5	20
Copper	100	98.7	105	99	105	80-120			6	20
Lead	100	97.5	103	97	103	80-120			6	20
Manganese	100	97.2	102	97	102	80-120			5	20
Nickel	100	97.8	103	98	103	80-120			6	20
Silver	20.0	18.0	19.2	90	96	80-120			7	20
Zinc	100	90.5	95.7	91	96	80-120			6	20

L923206-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L923206-01 07/26/17 15:19 • (MS) R3236430-6 07/26/17 15:26 • (MSD) R3236430-7 07/26/17 15:29

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic	114	5.59	119	121	100	102	1	75-125			2	20
Barium	114	71.4	188	194	103	108	1	75-125			3	20
Beryllium	114	0.426	114	114	100	100	1	75-125			0	20
Cadmium	114	0.177	111	112	98	98	1	75-125			0	20

L923206-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L923206-01 07/26/17 15:19 • (MS) R3236430-6 07/26/17 15:26 • (MSD) R3236430-7 07/26/17 15:29

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chromium	114	11.9	120	121	95	96	1	75-125			0	20
Copper	114	21.9	141	147	104	110	1	75-125			5	20
Lead	114	20.4	135	142	101	107	1	75-125			5	20
Manganese	114	388	548	537	141	131	1	75-125	J5	J5	2	20
Nickel	114	19.5	136	137	103	104	1	75-125			1	20
Silver	22.7	U	21.5	22.1	95	97	1	75-125			3	20
Zinc	114	62.3	164	167	90	93	1	75-125			2	20

Method Blank (MB)

(MB) R3234801-3 07/20/17 00:29

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acetone	U		0.0100	0.0500
Acrylonitrile	U		0.00179	0.0100
Benzene	U		0.000270	0.00100
Bromobenzene	U		0.000284	0.00100
Bromodichloromethane	U		0.000254	0.00100
Bromoform	U		0.000424	0.00100
Bromomethane	U		0.00134	0.00500
n-Butylbenzene	U		0.000258	0.00100
sec-Butylbenzene	U		0.000201	0.00100
tert-Butylbenzene	U		0.000206	0.00100
Carbon tetrachloride	U		0.000328	0.00100
Chlorobenzene	U		0.000212	0.00100
Chlorodibromomethane	U		0.000373	0.00100
Chloroethane	U		0.000946	0.00500
Chloroform	U		0.000229	0.00500
Chloromethane	U		0.000375	0.00250
2-Chlorotoluene	U		0.000301	0.00100
4-Chlorotoluene	U		0.000240	0.00100
1,2-Dibromo-3-Chloropropane	U		0.00105	0.00500
1,2-Dibromoethane	U		0.000343	0.00100
Dibromomethane	U		0.000382	0.00100
1,2-Dichlorobenzene	U		0.000305	0.00100
1,3-Dichlorobenzene	U		0.000239	0.00100
1,4-Dichlorobenzene	U		0.000226	0.00100
Dichlorodifluoromethane	U		0.000713	0.00500
1,1-Dichloroethane	U		0.000199	0.00100
1,2-Dichloroethane	U		0.000265	0.00100
1,1-Dichloroethene	U		0.000303	0.00100
cis-1,2-Dichloroethene	U		0.000235	0.00100
trans-1,2-Dichloroethene	U		0.000264	0.00100
1,2-Dichloropropane	U		0.000358	0.00100
1,1-Dichloropropene	U		0.000317	0.00100
1,3-Dichloropropane	U		0.000207	0.00100
cis-1,3-Dichloropropene	U		0.000262	0.00100
trans-1,3-Dichloropropene	U		0.000267	0.00100
2,2-Dichloropropane	U		0.000279	0.00100
Di-isopropyl ether	U		0.000248	0.00100
Ethylbenzene	U		0.000297	0.00100
Hexachloro-1,3-butadiene	U		0.000342	0.00100
Isopropylbenzene	U		0.000243	0.00100

Method Blank (MB)

(MB) R3234801-3 07/20/17 00:29

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
p-Isopropyltoluene	U		0.000204	0.00100
2-Butanone (MEK)	U		0.00468	0.0100
Methylene Chloride	0.00123	J	0.00100	0.00500
4-Methyl-2-pentanone (MIBK)	U		0.00188	0.0100
Methyl tert-butyl ether	U		0.000212	0.00100
Naphthalene	U		0.00100	0.00500
n-Propylbenzene	U		0.000206	0.00100
Styrene	U		0.000234	0.00100
1,1,1,2-Tetrachloroethane	U		0.000264	0.00100
1,1,2,2-Tetrachloroethane	U		0.000365	0.00100
Tetrachloroethene	U		0.000276	0.00100
Toluene	U		0.000434	0.00500
1,1,2-Trichlorotrifluoroethane	U		0.000365	0.00100
1,2,3-Trichlorobenzene	U		0.000306	0.00100
1,2,4-Trichlorobenzene	U		0.000388	0.00100
1,1,1-Trichloroethane	U		0.000286	0.00100
1,1,2-Trichloroethane	U		0.000277	0.00100
Trichloroethene	U		0.000279	0.00100
Trichlorofluoromethane	U		0.000382	0.00500
1,2,3-Trichloropropane	U		0.000741	0.00250
1,2,3-Trimethylbenzene	U		0.000287	0.00100
1,2,4-Trimethylbenzene	U		0.000211	0.00100
1,3,5-Trimethylbenzene	U		0.000266	0.00100
Vinyl chloride	U		0.000291	0.00100
Xylenes, Total	U		0.000698	0.00300
(S) Toluene-d8	*102*			*80.0-120*
(S) Dibromofluoromethane	*88.6*			*74.0-131*
(S) 4-Bromofluorobenzene	*97.4*			*64.0-132*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3234801-1 07/19/17 22:46 • (LCSD) R3234801-2 07/19/17 23:07

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	0.125	0.153	0.117	123	93.4	11.0-160		J3	27.2	23
Acrylonitrile	0.125	0.123	0.118	98.1	94.1	61.0-143			4.15	20
Benzene	0.0250	0.0218	0.0226	87.3	90.4	71.0-124			3.55	20
Bromobenzene	0.0250	0.0248	0.0244	99.1	97.5	78.0-120			1.69	20
Bromodichloromethane	0.0250	0.0258	0.0259	103	103	75.0-120			0.210	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3234801-1 07/19/17 22:46 • (LCSD) R3234801-2 07/19/17 23:07

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Bromoform	0.0250	0.0335	0.0304	134	122	65.0-133	J4		9.58	20
Bromomethane	0.0250	0.0182	0.0182	72.7	72.8	26.0-160			0.0700	20
n-Butylbenzene	0.0250	0.0231	0.0239	92.6	95.7	73.0-126			3.32	20
sec-Butylbenzene	0.0250	0.0241	0.0234	96.4	93.7	75.0-121			2.80	20
tert-Butylbenzene	0.0250	0.0248	0.0240	99.3	95.8	74.0-122			3.56	20
Carbon tetrachloride	0.0250	0.0209	0.0221	83.5	88.4	66.0-123			5.67	20
Chlorobenzene	0.0250	0.0261	0.0256	104	102	79.0-121			2.04	20
Chlorodibromomethane	0.0250	0.0288	0.0269	115	108	74.0-128			6.65	20
Chloroethane	0.0250	0.0201	0.0202	80.3	80.7	51.0-147			0.490	20
Chloroform	0.0250	0.0208	0.0216	83.0	86.6	73.0-123			4.18	20
Chloromethane	0.0250	0.0179	0.0182	71.8	73.0	51.0-138			1.64	20
2-Chlorotoluene	0.0250	0.0242	0.0235	96.9	94.0	72.0-124			3.03	20
4-Chlorotoluene	0.0250	0.0240	0.0237	95.9	94.8	78.0-120			1.17	20
1,2-Dibromo-3-Chloropropane	0.0250	0.0288	0.0266	115	106	65.0-126			7.94	20
1,2-Dibromoethane	0.0250	0.0288	0.0274	115	110	78.0-122			5.00	20
Dibromomethane	0.0250	0.0263	0.0250	105	100	79.0-120			5.13	20
1,2-Dichlorobenzene	0.0250	0.0257	0.0253	103	101	80.0-120			1.57	20
1,3-Dichlorobenzene	0.0250	0.0231	0.0221	92.5	88.4	72.0-123			4.59	20
1,4-Dichlorobenzene	0.0250	0.0241	0.0242	96.5	96.8	77.0-120			0.260	20
Dichlorodifluoromethane	0.0250	0.0177	0.0173	70.8	69.2	49.0-155			2.27	20
1,1-Dichloroethane	0.0250	0.0214	0.0221	85.5	88.5	70.0-128			3.51	20
1,2-Dichloroethane	0.0250	0.0239	0.0243	95.6	97.0	69.0-128			1.44	20
1,1-Dichloroethene	0.0250	0.0190	0.0192	76.1	76.8	63.0-131			0.870	20
cis-1,2-Dichloroethene	0.0250	0.0213	0.0223	85.3	89.1	74.0-123			4.33	20
trans-1,2-Dichloroethene	0.0250	0.0209	0.0213	83.8	85.0	72.0-122			1.53	20
1,2-Dichloropropane	0.0250	0.0255	0.0255	102	102	75.0-126			0.0800	20
1,1-Dichloropropene	0.0250	0.0218	0.0231	87.1	92.5	72.0-130			6.00	20
1,3-Dichloropropane	0.0250	0.0289	0.0279	116	111	80.0-121			3.72	20
cis-1,3-Dichloropropene	0.0250	0.0263	0.0260	105	104	80.0-125			1.29	20
trans-1,3-Dichloropropene	0.0250	0.0285	0.0278	114	111	75.0-129			2.56	20
2,2-Dichloropropane	0.0250	0.0227	0.0237	90.7	94.7	60.0-129			4.28	20
Di-isopropyl ether	0.0250	0.0216	0.0221	86.5	88.5	62.0-133			2.37	20
Ethylbenzene	0.0250	0.0260	0.0255	104	102	77.0-120			2.07	20
Hexachloro-1,3-butadiene	0.0250	0.0232	0.0233	93.0	93.3	68.0-128			0.410	20
Isopropylbenzene	0.0250	0.0252	0.0242	101	96.7	75.0-120			4.38	20
p-Isopropyltoluene	0.0250	0.0234	0.0224	93.8	89.6	74.0-125			4.55	20
2-Butanone (MEK)	0.125	0.115	0.103	92.2	82.7	37.0-159			10.9	20
Methylene Chloride	0.0250	0.0204	0.0200	81.6	80.1	67.0-123			1.83	20
4-Methyl-2-pentanone (MIBK)	0.125	0.129	0.122	103	97.3	60.0-144			6.05	20
Methyl tert-butyl ether	0.0250	0.0230	0.0227	92.0	90.7	66.0-125			1.44	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3234801-1 07/19/17 22:46 • (LCSD) R3234801-2 07/19/17 23:07

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Naphthalene	0.0250	0.0260	0.0252	104	101	64.0-125			3.36	20
n-Propylbenzene	0.0250	0.0250	0.0246	99.8	98.5	78.0-120			1.32	20
Styrene	0.0250	0.0218	0.0215	87.3	85.8	78.0-124			1.76	20
1,1,1,2-Tetrachloroethane	0.0250	0.0255	0.0245	102	98.1	74.0-124			4.09	20
1,1,2,2-Tetrachloroethane	0.0250	0.0273	0.0255	109	102	73.0-120			6.53	20
Tetrachloroethene	0.0250	0.0268	0.0257	107	103	70.0-127			4.24	20
Toluene	0.0250	0.0256	0.0252	102	101	77.0-120			1.53	20
1,1,2-Trichlorotrifluoroethane	0.0250	0.0215	0.0206	85.9	82.4	64.0-135			4.19	20
1,2,3-Trichlorobenzene	0.0250	0.0237	0.0231	94.6	92.5	68.0-126			2.22	20
1,2,4-Trichlorobenzene	0.0250	0.0218	0.0219	87.2	87.4	70.0-127			0.250	20
1,1,1-Trichloroethane	0.0250	0.0218	0.0225	87.1	89.9	69.0-125			3.18	20
1,1,2-Trichloroethane	0.0250	0.0281	0.0273	113	109	78.0-120			2.87	20
Trichloroethene	0.0250	0.0246	0.0239	98.5	95.4	79.0-120			3.11	20
Trichlorofluoromethane	0.0250	0.0205	0.0200	82.1	80.1	59.0-136			2.49	20
1,2,3-Trichloropropane	0.0250	0.0295	0.0259	118	104	73.0-124			12.9	20
1,2,3-Trimethylbenzene	0.0250	0.0244	0.0245	97.6	98.0	76.0-120			0.410	20
1,2,4-Trimethylbenzene	0.0250	0.0238	0.0228	95.3	91.3	75.0-120			4.26	20
1,3,5-Trimethylbenzene	0.0250	0.0238	0.0232	95.1	92.6	75.0-120			2.62	20
Vinyl chloride	0.0250	0.0177	0.0178	70.7	71.3	63.0-134			0.890	20
Xylenes, Total	0.0750	0.0764	0.0749	102	99.9	77.0-120			1.98	20
(S) Toluene-d8				*104*	*103*	*80.0-120*				
(S) Dibromofluoromethane				*85.1*	*89.5*	*74.0-131*				
(S) 4-Bromofluorobenzene				*96.3*	*93.8*	*64.0-132*				

L923206-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L923206-07 07/20/17 07:11 • (MS) R3234801-4 07/20/17 08:53 • (MSD) R3234801-5 07/20/17 09:14

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Acetone	0.146	0.0386	0.298	0.285	177	168	1	10.0-160	J5	J5	4.60	36
Acrylonitrile	0.146	U	0.163	0.147	111	100	1	14.0-160			10.4	33
Benzene	0.0293	0.000458	0.0171	0.0174	56.7	57.9	1	13.0-146			1.95	27
Bromobenzene	0.0293	U	0.00766	0.00573	26.2	19.6	1	10.0-149			28.9	33
Bromodichloromethane	0.0293	U	0.0192	0.0184	65.6	62.9	1	15.0-142			4.14	28
Bromoform	0.0293	U	0.0154	0.0124	52.6	42.3	1	10.0-147			21.7	31
Bromomethane	0.0293	U	0.0144	0.0157	49.2	53.7	1	10.0-160			8.78	32
n-Butylbenzene	0.0293	U	0.00586	0.00527	20.0	18.0	1	10.0-154			10.7	37
sec-Butylbenzene	0.0293	U	0.00671	0.00627	22.9	21.4	1	10.0-151			6.90	36
tert-Butylbenzene	0.0293	U	0.00777	0.00725	26.5	24.8	1	10.0-152			6.86	35

L923206-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L923206-07 07/20/17 07:11 • (MS) R3234801-4 07/20/17 08:53 • (MSD) R3234801-5 07/20/17 09:14

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Carbon tetrachloride	0.0293	U	0.0165	0.0198	56.5	67.5	1	13.0-140			17.8	30
Chlorobenzene	0.0293	U	0.00962	0.00763	32.9	26.1	1	10.0-149			23.1	31
Chlorodibromomethane	0.0293	U	0.0160	0.0141	54.5	48.2	1	12.0-147			12.2	29
Chloroethane	0.0293	U	0.0165	0.0198	56.2	67.5	1	10.0-159			18.3	33
Chloroform	0.0293	U	0.0189	0.0199	64.6	67.9	1	18.0-148			5.05	28
Chloromethane	0.0293	U	0.0121	0.0143	41.5	48.8	1	10.0-146			16.2	29
2-Chlorotoluene	0.0293	U	0.00715	0.00558	24.4	19.1	1	10.0-151			24.6	35
4-Chlorotoluene	0.0293	U	0.00639	0.00460	21.8	15.7	1	10.0-150			32.6	35
1,2-Dibromo-3-Chloropropane	0.0293	U	0.0136	0.0101	46.5	34.5	1	10.0-149			29.7	34
1,2-Dibromoethane	0.0293	U	0.0180	0.0155	61.6	52.8	1	14.0-145			15.4	28
Dibromomethane	0.0293	U	0.0217	0.0201	74.2	68.6	1	18.0-144			7.82	27
1,2-Dichlorobenzene	0.0293	U	0.00567	0.00415	19.4	14.2	1	10.0-153			30.8	34
1,3-Dichlorobenzene	0.0293	U	0.00470	0.00327	16.1	11.2	1	10.0-150		J3	35.7	35
1,4-Dichlorobenzene	0.0293	U	0.00551	0.00407	18.8	13.9	1	10.0-148			30.2	34
Dichlorodifluoromethane	0.0293	U	0.0121	0.0152	41.4	51.9	1	10.0-160			22.6	30
1,1-Dichloroethane	0.0293	U	0.0195	0.0218	66.7	74.5	1	19.0-148			11.0	28
1,2-Dichloroethane	0.0293	U	0.0229	0.0216	78.3	73.7	1	17.0-147			6.09	27
1,1-Dichloroethene	0.0293	U	0.0158	0.0187	53.9	63.9	1	10.0-150			17.0	31
cis-1,2-Dichloroethene	0.0293	U	0.0178	0.0180	60.8	61.4	1	16.0-145			1.00	28
trans-1,2-Dichloroethene	0.0293	U	0.0158	0.0166	54.0	56.8	1	11.0-142			5.01	29
1,2-Dichloropropane	0.0293	U	0.0193	0.0193	66.0	66.0	1	17.0-148			0.0100	28
1,1-Dichloropropene	0.0293	U	0.0163	0.0176	55.7	60.0	1	10.0-150			7.36	30
1,3-Dichloropropane	0.0293	U	0.0189	0.0167	64.8	56.9	1	16.0-148			12.9	27
cis-1,3-Dichloropropene	0.0293	U	0.0177	0.0160	60.5	54.7	1	13.0-150			10.2	28
trans-1,3-Dichloropropene	0.0293	U	0.0175	0.0150	59.8	51.2	1	10.0-152			15.5	29
2,2-Dichloropropane	0.0293	U	0.0187	0.0229	63.8	78.1	1	16.0-143			20.2	30
Di-isopropyl ether	0.0293	U	0.0206	0.0210	70.3	71.9	1	16.0-149			2.30	28
Ethylbenzene	0.0293	U	0.0104	0.00942	35.4	32.2	1	10.0-147			9.50	31
Hexachloro-1,3-butadiene	0.0293	U	0.00414	0.00384	14.2	13.1	1	10.0-154			7.47	40
Isopropylbenzene	0.0293	U	0.00878	0.00815	30.0	27.9	1	10.0-147			7.51	33
p-Isopropyltoluene	0.0293	U	0.00662	0.00590	22.6	20.2	1	10.0-156			11.5	37
2-Butanone (MEK)	0.146	U	0.169	0.149	116	102	1	10.0-160			12.7	33
Methylene Chloride	0.0293	U	0.0183	0.0193	62.6	66.0	1	16.0-139			5.41	29
4-Methyl-2-pentanone (MIBK)	0.146	U	0.205	0.174	140	119	1	12.0-160			16.5	32
Methyl tert-butyl ether	0.0293	U	0.0263	0.0250	89.8	85.4	1	21.0-145			5.02	29
Naphthalene	0.0293	U	0.00232	0.00183	7.94	6.26	1	10.0-153	J6	J6	23.6	36
n-Propylbenzene	0.0293	U	0.00788	0.00683	26.9	23.3	1	10.0-151			14.3	34
Styrene	0.0293	U	0.00390	0.00239	13.3	8.17	1	10.0-155		J3 J6	48.0	34
1,1,1,2-Tetrachloroethane	0.0293	U	0.0128	0.0115	43.8	39.4	1	10.0-147			10.4	30

L923206-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L923206-07 07/20/17 07:11 • (MS) R3234801-4 07/20/17 08:53 • (MSD) R3234801-5 07/20/17 09:14

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
1,1,2,2-Tetrachloroethane	0.0293	U	0.0164	0.0128	55.9	43.7	1	10.0-155			24.6	31
Tetrachloroethene	0.0293	U	0.0110	0.0110	37.7	37.7	1	10.0-144			0.0200	32
Toluene	0.0293	0.00228	0.0169	0.0160	50.1	47.0	1	10.0-144			5.39	28
1,1,2-Trichlorotrifluoroethane	0.0293	U	0.0190	0.0230	65.1	78.6	1	10.0-153			18.9	33
1,2,3-Trichlorobenzene	0.0293	U	0.00244	0.00199	8.33	6.81	1	10.0-153	J6	J6	20.1	40
1,2,4-Trichlorobenzene	0.0293	U	0.00236	0.00188	8.06	6.41	1	10.0-156	J6	J6	22.8	40
1,1,1-Trichloroethane	0.0293	U	0.0187	0.0217	64.0	74.1	1	18.0-145			14.6	29
1,1,2-Trichloroethane	0.0293	U	0.0195	0.0171	66.8	58.5	1	12.0-151			13.3	28
Trichloroethene	0.0293	0.000432	0.0152	0.0150	50.3	49.6	1	11.0-148			1.34	29
Trichlorofluoromethane	0.0293	U	0.0188	0.0229	64.2	78.1	1	10.0-157			19.5	34
1,2,3-Trichloropropane	0.0293	U	0.0191	0.0151	65.2	51.4	1	10.0-154			23.6	32
1,2,3-Trimethylbenzene	0.0293	U	0.00738	0.00587	25.2	20.1	1	10.0-150			22.7	33
1,2,4-Trimethylbenzene	0.0293	U	0.00659	0.00509	22.5	17.4	1	10.0-151			25.7	34
1,3,5-Trimethylbenzene	0.0293	U	0.00687	0.00573	23.5	19.6	1	10.0-150			18.0	33
Vinyl chloride	0.0293	U	0.0125	0.0151	42.8	51.6	1	10.0-150			18.7	29
Xylenes, Total	0.0878	U	0.0290	0.0245	33.1	27.9	1	10.0-150			16.8	31
(S) Toluene-d8					*105*	*103*		*80.0-120*				
(S) Dibromofluoromethane					*103*	*103*		*74.0-131*				
(S) 4-Bromofluorobenzene					*90.6*	*88.0*		*64.0-132*				

Method Blank (MB)

(MB) R3235730-3 07/24/17 13:48

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Aldrin	U		0.00135	0.0200
Alpha BHC	U		0.00136	0.0200
Beta BHC	U		0.00160	0.0200
Delta BHC	U		0.00143	0.0200
Gamma BHC	U		0.00145	0.0200
4,4-DDD	U		0.00156	0.0200
4,4-DDE	U		0.00154	0.0200
4,4-DDT	U		0.00200	0.0200
Dieldrin	U		0.00152	0.0200
Endosulfan I	U		0.00149	0.0200
Endosulfan II	U		0.00160	0.0200
Endosulfan sulfate	U		0.00151	0.0200
Endrin	U		0.00157	0.0200
Endrin aldehyde	U		0.00129	0.0200
Endrin ketone	U		0.00165	0.0200
Heptachlor	U		0.00154	0.0200
Heptachlor epoxide	U		0.00161	0.0200
Hexachlorobenzene	U		0.00124	0.0200
Methoxychlor	U		0.00178	0.0200
Chlordane	U		0.0390	0.200
Toxaphene	U		0.0360	0.400
(S) Decachlorobiphenyl	*86.5*			*10.0-148*
(S) Tetrachloro-m-xylene	*82.6*			*21.0-146*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3235730-1 07/24/17 13:23 • (LCSD) R3235730-2 07/24/17 13:36

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Aldrin	0.0667	0.0585	0.0599	87.7	89.8	55.0-137			2.32	29
Alpha BHC	0.0667	0.0592	0.0607	88.7	91.1	55.0-136			2.59	28
Beta BHC	0.0667	0.0556	0.0562	83.4	84.2	53.0-133			0.980	28
Delta BHC	0.0667	0.0564	0.0579	84.5	86.9	53.0-139			2.72	29
Gamma BHC	0.0667	0.0586	0.0596	87.8	89.3	54.0-136			1.71	29
4,4-DDD	0.0667	0.0578	0.0589	86.6	88.4	51.0-141			2.00	29
4,4-DDE	0.0667	0.0566	0.0574	84.9	86.1	53.0-142			1.38	30
4,4-DDT	0.0667	0.0562	0.0566	84.3	84.9	47.0-143			0.710	30
Dieldrin	0.0667	0.0587	0.0598	88.1	89.7	54.0-141			1.79	29
Endosulfan I	0.0667	0.0578	0.0589	86.7	88.3	54.0-141			1.87	29

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3235730-1 07/24/17 13:23 • (LCSD) R3235730-2 07/24/17 13:36

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Endosulfan II	0.0667	0.0568	0.0585	85.2	87.7	53.0-140			2.91	28
Endosulfan sulfate	0.0667	0.0576	0.0592	86.3	88.8	52.0-141			2.88	29
Endrin	0.0667	0.0637	0.0627	95.5	93.9	52.0-137			1.60	29
Endrin aldehyde	0.0667	0.0517	0.0540	77.5	81.0	30.0-127			4.37	31
Endrin ketone	0.0667	0.0693	0.0719	104	108	51.0-139			3.75	28
Heptachlor	0.0667	0.0573	0.0577	86.0	86.6	53.0-144			0.710	29
Heptachlor epoxide	0.0667	0.0564	0.0575	84.6	86.1	54.0-137			1.82	28
Hexachlorobenzene	0.0667	0.0539	0.0549	80.8	82.2	50.0-135			1.74	28
Methoxychlor	0.0667	0.0628	0.0650	94.2	97.5	49.0-145			3.45	29
(S) Decachlorobiphenyl				*82.4*	*86.6*	*10.0-148*				
(S) Tetrachloro-m-xylene				*74.7*	*77.8*	*21.0-146*				

L923206-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L923206-01 07/24/17 17:21 • (MS) R3235730-4 07/24/17 17:34 • (MSD) R3235730-5 07/24/17 17:46

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Aldrin	0.0757	U	0.0714	0.0660	94.2	87.2	1	19.0-152			7.73	24
Alpha BHC	0.0757	U	0.0738	0.0680	97.4	89.8	1	39.0-152			8.08	21
Beta BHC	0.0757	U	0.0672	0.0621	88.8	82.0	1	38.0-150			7.90	20
Delta BHC	0.0757	U	0.0685	0.0619	90.4	81.8	1	34.0-155			10.1	21
Gamma BHC	0.0757	U	0.0733	0.0669	96.8	88.3	1	38.0-153			9.12	21
4,4-DDD	0.0757	U	0.0704	0.0653	92.9	86.2	1	22.0-160			7.46	25
4,4-DDE	0.0757	U	0.0686	0.0645	90.5	85.1	1	10.0-160			6.14	27
4,4-DDT	0.0757	U	0.0676	0.0629	89.3	83.1	1	10.0-160			7.19	28
Dieldrin	0.0757	U	0.0718	0.0675	94.7	89.1	1	30.0-158			6.17	25
Endosulfan I	0.0757	U	0.0694	0.0643	91.6	85.0	1	31.0-155			7.50	25
Endosulfan II	0.0757	U	0.0674	0.0622	89.0	82.1	1	32.0-156			8.10	25
Endosulfan sulfate	0.0757	U	0.0679	0.0621	89.7	82.0	1	31.0-158			8.93	24
Endrin	0.0757	U	0.0772	0.0716	102	94.6	1	30.0-149			7.47	25
Endrin aldehyde	0.0757	U	0.0632	0.0586	83.4	77.4	1	20.0-157			7.51	26
Endrin ketone	0.0757	U	0.0818	0.0742	108	97.9	1	32.0-154			9.79	23
Heptachlor	0.0757	U	0.0735	0.0672	97.0	88.7	1	18.0-160			8.92	23
Heptachlor epoxide	0.0757	U	0.0696	0.0651	91.9	86.0	1	31.0-154			6.69	25
Hexachlorobenzene	0.0757	U	0.0661	0.0617	87.2	81.4	1	26.0-146			6.87	21
Methoxychlor	0.0757	U	0.0735	0.0668	97.1	88.3	1	10.0-160			9.50	27
(S) Decachlorobiphenyl					*83.7*	*77.1*		*10.0-148*				
(S) Tetrachloro-m-xylene					*85.2*	*78.5*		*21.0-146*				

Method Blank (MB)

(MB) R3235739-3 07/24/17 14:59

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
PCB 1016	U		0.00350	0.0170
PCB 1221	U		0.00537	0.0170
PCB 1232	U		0.00417	0.0170
PCB 1242	U		0.00318	0.0170
PCB 1248	U		0.00315	0.0170
PCB 1254	U		0.00472	0.0170
PCB 1260	U		0.00494	0.0170
(S) Decachlorobiphenyl	*101*			*10.0-148*
(S) Tetrachloro-m-xylene	*97.6*			*21.0-146*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3235739-1 07/24/17 14:34 • (LCSD) R3235739-2 07/24/17 14:46

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
PCB 1260	0.167	0.157	0.136	94.3	81.7	37.0-145			14.3	37
PCB 1016	0.167	0.140	0.113	83.8	67.6	36.0-141			21.3	35
(S) Decachlorobiphenyl				*99.6*	*85.7*	*10.0-148*				
(S) Tetrachloro-m-xylene				*92.2*	*79.8*	*21.0-146*				

L923206-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L923206-01 07/24/17 15:36 • (MS) R3235739-4 07/24/17 15:49 • (MSD) R3235739-5 07/24/17 16:01

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
PCB 1260	0.189	U	0.171	0.174	90.4	91.8	1	10.0-160			1.48	31
PCB 1016	0.189	U	0.154	0.162	81.5	85.8	1	17.0-160			5.14	30
(S) Decachlorobiphenyl					*93.0*	*93.4*		*10.0-148*				
(S) Tetrachloro-m-xylene					*90.2*	*95.6*		*21.0-146*				

Method Blank (MB)

(MB) R3235795-3 07/24/17 11:38

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acenaphthene	U		0.00642	0.0330
Acenaphthylene	U		0.00671	0.0330
Anthracene	U		0.00632	0.0330
Benzidine	U		0.0637	0.333
Benzo(a)anthracene	U		0.00428	0.0330
Benzo(b)fluoranthene	U		0.00695	0.0330
Benzo(k)fluoranthene	U		0.00582	0.0330
Benzo(g,h,i)perylene	U		0.00721	0.0330
Benzo(a)pyrene	U		0.00548	0.0330
Bis(2-chlorethoxy)methane	U		0.00770	0.333
Bis(2-chloroethyl)ether	U		0.00896	0.333
Bis(2-chloroisopropyl)ether	U		0.00760	0.333
4-Bromophenyl-phenylether	U		0.0114	0.333
2-Chloronaphthalene	U		0.00639	0.0330
4-Chlorophenyl-phenylether	U		0.00627	0.333
Chrysene	U		0.00555	0.0330
Dibenz(a,h)anthracene	U		0.00821	0.0330
3,3-Dichlorobenzidine	U		0.0794	0.333
2,4-Dinitrotoluene	U		0.00607	0.333
2,6-Dinitrotoluene	U		0.00737	0.333
Fluoranthene	U		0.00496	0.0330
Fluorene	U		0.00682	0.0330
Hexachlorobenzene	U		0.00856	0.333
Hexachloro-1,3-butadiene	U		0.0100	0.333
Hexachlorocyclopentadiene	U		0.0587	0.333
Hexachloroethane	U		0.0134	0.333
Indeno(1,2,3-cd)pyrene	U		0.00772	0.0330
Isophorone	U		0.00522	0.333
Naphthalene	U		0.00889	0.0330
Nitrobenzene	U		0.00695	0.333
n-Nitrosodimethylamine	U		0.0647	0.333
n-Nitrosodiphenylamine	U		0.00594	0.333
n-Nitrosodi-n-propylamine	U		0.00906	0.333
Phenanthrene	U		0.00528	0.0330
Benzylbutyl phthalate	U		0.0103	0.333
Bis(2-ethylhexyl)phthalate	U		0.0120	0.333
Di-n-butyl phthalate	U		0.0109	0.333
Diethyl phthalate	U		0.00691	0.333
Dimethyl phthalate	U		0.00540	0.333
Di-n-octyl phthalate	U		0.00907	0.333

Method Blank (MB)

(MB) R3235795-3 07/24/17 11:38

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Pyrene	U		0.0123	0.0330
1,2,4-Trichlorobenzene	U		0.00876	0.333
4-Chloro-3-methylphenol	U		0.00477	0.333
2-Chlorophenol	U		0.00831	0.333
2,4-Dichlorophenol	U		0.00746	0.333
2,4-Dimethylphenol	U		0.0471	0.333
4,6-Dinitro-2-methylphenol	U		0.124	0.333
2,4-Dinitrophenol	U		0.0980	0.333
2-Nitrophenol	U		0.0130	0.333
4-Nitrophenol	U		0.0525	0.333
Pentachlorophenol	U		0.0480	0.333
Phenol	U		0.00695	0.333
2,4,6-Trichlorophenol	U		0.00779	0.333
(S) Nitrobenzene-d5	*60.2*			*18.0-125*
(S) 2-Fluorobiphenyl	*66.4*			*28.0-120*
(S) p-Terphenyl-d14	*65.5*			*13.0-131*
(S) Phenol-d5	*63.4*			*20.0-120*
(S) 2-Fluorophenol	*67.1*			*20.0-120*
(S) 2,4,6-Tribromophenol	*68.9*			*17.0-137*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3235795-1 07/24/17 10:51 • (LCSD) R3235795-2 07/24/17 11:15

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acenaphthene	0.667	0.418	0.494	62.7	74.1	47.0-120			16.6	21
Acenaphthylene	0.667	0.442	0.524	66.2	78.6	48.0-120			17.1	21
Anthracene	0.667	0.434	0.493	65.1	73.9	46.0-120			12.7	20
Benzidine	0.667	0.0808	0.0791	12.1	11.9	1.00-120			2.15	36
Benzo(a)anthracene	0.667	0.475	0.493	71.2	73.9	46.0-120			3.64	20
Benzo(b)fluoranthene	0.667	0.486	0.497	72.9	74.6	45.0-120			2.30	22
Benzo(k)fluoranthene	0.667	0.448	0.489	67.1	73.4	45.0-120			8.89	23
Benzo(g,h,i)perylene	0.667	0.451	0.483	67.6	72.4	48.0-120			6.85	21
Benzo(a)pyrene	0.667	0.471	0.490	70.7	73.5	46.0-120			3.96	21
Bis(2-chlorethoxy)methane	0.667	0.301	0.374	45.1	56.1	41.0-120			21.6	22
Bis(2-chloroethyl)ether	0.667	0.352	0.501	52.8	75.0	28.0-120		J3	34.8	28
Bis(2-chloroisopropyl)ether	0.667	0.313	0.459	46.9	68.9	40.0-120		J3	38.0	27
4-Bromophenyl-phenylether	0.667	0.446	0.511	66.9	76.7	45.0-120			13.6	20
2-Chloronaphthalene	0.667	0.378	0.473	56.6	70.9	43.0-120		J3	22.3	22

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3235795-1 07/24/17 10:51 • (LCSD) R3235795-2 07/24/17 11:15

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
4-Chlorophenyl-phenylether	0.667	0.455	0.515	68.2	77.3	46.0-120			12.5	21
Chrysene	0.667	0.481	0.517	72.1	77.6	46.0-120			7.33	20
Dibenz(a,h)anthracene	0.667	0.463	0.497	69.5	74.5	47.0-120			6.97	22
3,3-Dichlorobenzidine	0.667	0.256	0.250	38.4	37.5	20.0-130			2.22	24
2,4-Dinitrotoluene	0.667	0.476	0.519	71.3	77.8	48.0-122			8.78	21
2,6-Dinitrotoluene	0.667	0.429	0.494	64.3	74.0	46.0-120			14.0	21
Fluoranthene	0.667	0.465	0.506	69.8	75.9	46.0-120			8.49	20
Fluorene	0.667	0.451	0.523	67.6	78.4	47.0-120			14.7	20
Hexachlorobenzene	0.667	0.451	0.508	67.7	76.2	42.0-120			11.8	20
Hexachloro-1,3-butadiene	0.667	0.291	0.391	43.6	58.6	36.0-120		J3	29.3	26
Hexachlorocyclopentadiene	0.667	0.279	0.369	41.8	55.3	20.0-124		J3	27.8	26
Hexachloroethane	0.667	0.271	0.390	40.7	58.5	32.0-120		J3	36.0	31
Indeno(1,2,3-cd)pyrene	0.667	0.465	0.491	69.7	73.7	48.0-120			5.55	21
Isophorone	0.667	0.322	0.389	48.3	58.4	42.0-120			18.9	21
Naphthalene	0.667	0.285	0.372	42.8	55.8	41.0-120		J3	26.5	24
Nitrobenzene	0.667	0.272	0.367	40.8	55.0	36.0-120		J3	29.6	24
n-Nitrosodimethylamine	0.667	0.398	0.520	59.7	77.9	20.0-120			26.5	31
n-Nitrosodiphenylamine	0.667	0.423	0.472	63.4	70.8	42.0-120			11.0	20
n-Nitrosodi-n-propylamine	0.667	0.311	0.420	46.6	63.0	39.0-120		J3	29.9	23
Phenanthrene	0.667	0.433	0.484	65.0	72.5	45.0-120			11.0	20
Benzylbutyl phthalate	0.667	0.452	0.482	67.8	72.2	41.0-123			6.31	20
Bis(2-ethylhexyl)phthalate	0.667	0.445	0.472	66.7	70.8	41.0-124			6.00	20
Di-n-butyl phthalate	0.667	0.442	0.480	66.2	71.9	44.0-120			8.27	20
Diethyl phthalate	0.667	0.468	0.510	70.2	76.4	46.0-120			8.54	20
Dimethyl phthalate	0.667	0.448	0.522	67.1	78.2	47.0-120			15.3	21
Di-n-octyl phthalate	0.667	0.433	0.465	64.9	69.6	40.0-123			7.05	21
Pyrene	0.667	0.467	0.491	70.1	73.7	45.0-120			5.04	21
1,2,4-Trichlorobenzene	0.667	0.278	0.382	41.7	57.3	40.0-120		J3	31.4	25
4-Chloro-3-methylphenol	0.667	0.387	0.407	58.0	61.1	46.0-120			5.17	20
2-Chlorophenol	0.667	0.330	0.463	49.5	69.5	37.0-120		J3	33.6	27
2,4-Dichlorophenol	0.667	0.356	0.412	53.4	61.8	45.0-120			14.5	21
2,4-Dimethylphenol	0.667	0.343	0.397	51.5	59.5	40.0-120			14.5	22
4,6-Dinitro-2-methylphenol	0.667	0.472	0.506	70.8	75.9	34.0-120			6.93	23
2,4-Dinitrophenol	0.667	0.347	0.392	52.0	58.8	10.0-120			12.3	30
2-Nitrophenol	0.667	0.283	0.376	42.5	56.4	42.0-120		J3	28.1	24
4-Nitrophenol	0.667	0.413	0.462	62.0	69.3	40.0-120			11.1	21
Pentachlorophenol	0.667	0.425	0.465	63.7	69.8	33.0-122			9.15	22
Phenol	0.667	0.348	0.461	52.1	69.1	38.0-120		J3	28.0	25
2,4,6-Trichlorophenol	0.667	0.427	0.507	64.0	76.0	47.0-120			17.1	22
(S) Nitrobenzene-d5				*45.3*	*58.2*	*18.0-125*				

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3235795-1 07/24/17 10:51 • (LCSD) R3235795-2 07/24/17 11:15

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
(S) 2-Fluorobiphenyl				*62.9*	*73.7*	*28.0-120*				
(S) p-Terphenyl-d14				*63.0*	*62.5*	*13.0-131*				
(S) Phenol-d5				*58.1*	*75.1*	*20.0-120*				
(S) 2-Fluorophenol				*57.8*	*77.2*	*20.0-120*				
(S) 2,4,6-Tribromophenol				*69.1*	*75.4*	*17.0-137*				

L923206-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L923206-01 07/24/17 12:02 • (MS) R3235795-4 07/24/17 12:26 • (MSD) R3235795-5 07/24/17 12:49

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Acenaphthene	0.757	U	0.483	0.550	63.8	72.6	1	37.0-120			12.8	23
Acenaphthylene	0.757	U	0.508	0.542	67.0	71.6	1	41.0-120			6.55	22
Anthracene	0.757	U	0.486	0.612	64.2	80.8	1	30.0-123			22.9	25
Benzidine	0.757	U	ND	ND	0.000	0.000	1	1.00-120	J6	J6	0.000	36
Benzo(a)anthracene	0.757	0.0323	0.521	0.710	64.5	89.5	1	21.0-123		J3	30.7	26
Benzo(b)fluoranthene	0.757	0.0347	0.530	0.703	65.4	88.3	1	20.0-127			28.1	29
Benzo(k)fluoranthene	0.757	0.0154	0.495	0.566	63.3	72.7	1	22.0-123			13.5	28
Benzo(g,h,i)perylene	0.757	0.0169	0.478	0.512	60.9	65.3	1	10.0-120			6.77	32
Benzo(a)pyrene	0.757	0.0277	0.512	0.646	63.9	81.7	1	23.0-120			23.2	27
Bis(2-chlorethoxy)methane	0.757	U	0.369	0.395	48.7	52.2	1	37.0-120			6.98	22
Bis(2-chloroethyl)ether	0.757	U	0.446	0.468	58.9	61.7	1	26.0-120			4.68	27
Bis(2-chloroisopropyl)ether	0.757	U	0.419	0.418	55.4	55.2	1	35.0-120			0.300	25
4-Bromophenyl-phenylether	0.757	U	0.501	0.542	66.1	71.5	1	34.0-120			7.85	23
2-Chloronaphthalene	0.757	U	0.457	0.490	60.4	64.6	1	40.0-120			6.82	22
4-Chlorophenyl-phenylether	0.757	U	0.509	0.535	67.2	70.7	1	37.0-120			5.08	23
Chrysene	0.757	0.0317	0.544	0.730	67.6	92.2	1	19.0-127		J3	29.2	27
Dibenz(a,h)anthracene	0.757	U	0.492	0.529	65.0	69.8	1	10.0-120			7.08	28
3,3-Dichlorobenzidine	0.757	U	0.288	0.331	38.0	43.8	1	10.0-142			14.2	30
2,4-Dinitrotoluene	0.757	U	0.520	0.560	68.6	73.9	1	37.0-129			7.40	24
2,6-Dinitrotoluene	0.757	U	0.488	0.520	64.4	68.7	1	40.0-120			6.46	23
Fluoranthene	0.757	0.0543	0.548	0.922	65.2	115	1	20.0-133		J3	50.9	28
Fluorene	0.757	U	0.509	0.572	67.2	75.5	1	35.0-120			11.7	23
Hexachlorobenzene	0.757	U	0.494	0.552	65.2	72.9	1	33.0-120			11.2	24
Hexachloro-1,3-butadiene	0.757	U	0.381	0.404	50.3	53.4	1	33.0-120			5.93	25
Hexachlorocyclopentadiene	0.757	U	0.268	0.233	35.4	30.7	1	10.0-120			14.1	33
Hexachloroethane	0.757	U	0.341	0.344	45.0	45.5	1	21.0-120			1.07	30
Indeno(1,2,3-cd)pyrene	0.757	0.0150	0.502	0.553	64.4	71.0	1	10.0-120			9.53	30
Isophorone	0.757	U	0.375	0.407	49.5	53.7	1	38.0-120			8.13	22

L923206-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L923206-01 07/24/17 12:02 • (MS) R3235795-4 07/24/17 12:26 • (MSD) R3235795-5 07/24/17 12:49

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Naphthalene	0.757	U	0.366	0.403	48.3	53.2	1	37.0-120			9.54	25
Nitrobenzene	0.757	U	0.355	0.380	46.9	50.2	1	32.0-120			6.92	24
n-Nitrosodimethylamine	0.757	U	0.472	0.489	62.3	64.6	1	18.0-120			3.63	27
n-Nitrosodiphenylamine	0.757	U	0.465	0.509	61.5	67.2	1	20.0-125			9.00	25
n-Nitrosodi-n-propylamine	0.757	U	0.388	0.412	51.3	54.4	1	34.0-120			5.88	23
Phenanthrene	0.757	0.0234	0.507	0.830	63.9	107	1	24.0-124		J3	48.3	25
Benzylbutyl phthalate	0.757	U	0.475	0.500	62.8	66.0	1	18.0-130			5.01	27
Bis(2-ethylhexyl)phthalate	0.757	0.0159	0.476	0.507	60.7	64.9	1	19.0-127			6.49	28
Di-n-butyl phthalate	0.757	U	0.478	0.524	63.2	69.2	1	29.0-120			9.08	26
Diethyl phthalate	0.757	U	0.509	0.554	67.2	73.2	1	42.0-121			8.60	23
Dimethyl phthalate	0.757	U	0.498	0.530	65.8	69.9	1	42.0-120			6.06	23
Di-n-octyl phthalate	0.757	U	0.477	0.507	63.0	66.9	1	21.0-122			6.15	27
Pyrene	0.757	0.0456	0.523	0.784	63.1	97.5	1	19.0-127		J3	39.9	29
1,2,4-Trichlorobenzene	0.757	U	0.364	0.385	48.1	50.8	1	39.0-120			5.59	25
4-Chloro-3-methylphenol	0.757	U	0.415	0.462	54.8	61.0	1	37.0-121			10.6	23
2-Chlorophenol	0.757	U	0.423	0.455	55.9	60.1	1	34.0-120			7.27	25
2,4-Dichlorophenol	0.757	U	0.412	0.449	54.5	59.3	1	41.0-120			8.52	22
2,4-Dimethylphenol	0.757	U	0.410	0.450	54.1	59.4	1	27.0-120			9.33	25
4,6-Dinitro-2-methylphenol	0.757	U	0.386	0.441	51.0	58.2	1	10.0-131			13.2	29
2,4-Dinitrophenol	0.757	U	0.228	0.259	30.1	34.3	1	10.0-142			12.9	30
2-Nitrophenol	0.757	U	0.369	0.392	48.7	51.7	1	34.0-124			5.88	27
4-Nitrophenol	0.757	U	0.477	0.536	63.0	70.8	1	26.0-133			11.7	25
Pentachlorophenol	0.757	U	0.494	0.576	65.2	76.1	1	15.0-152			15.4	26
Phenol	0.757	U	0.454	0.457	60.0	60.3	1	33.0-120			0.610	24
2,4,6-Trichlorophenol	0.757	U	0.519	0.554	68.5	73.2	1	40.0-125			6.65	24
(S) Nitrobenzene-d5					*49.4*	*50.8*		*18.0-125*				
(S) 2-Fluorobiphenyl					*65.0*	*66.4*		*28.0-120*				
(S) p-Terphenyl-d14					*55.3*	*58.1*		*13.0-131*				
(S) Phenol-d5					*60.6*	*64.2*		*20.0-120*				
(S) 2-Fluorophenol					*60.7*	*66.3*		*20.0-120*				
(S) 2,4,6-Tribromophenol					*66.0*	*74.3*		*17.0-137*				

Abbreviations and Definitions

SDG	Sample Delivery Group.
MDL	Method Detection Limit.
MDL (dry)	Method Detection Limit.
RDL (dry)	Reported Detection Limit.
RDL	Reported Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
U	Not detected at the Reporting Limit (or MDL where applicable).
RPD	Relative Percent Difference.
(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
Rec.	Recovery.

Qualifier	Description
J	The identification of the analyte is acceptable; the reported value is an estimate.
J0	J0: Calibration verification outside of acceptance limits. Result is estimated.
J3	The associated batch QC was outside the established quality control range for precision.
J4	The associated batch QC was outside the established quality control range for accuracy.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.

ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our "one location" design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be **YOUR LAB OF CHOICE.**
* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

State Accreditations

Alabama	40660	Nevada	TN-03-2002-34
Alaska	UST-080	New Hampshire	2975
Arizona	AZ0612	New Jersey–NELAP	TN002
Arkansas	88-0469	New Mexico	TN00003
California	01157CA	New York	11742
Colorado	TN00003	North Carolina	Env375
Conneticut	PH-0197	North Carolina [1]	DW21704
Florida	E87487	North Carolina [2]	41
Georgia	NELAP	North Dakota	R-140
Georgia [1]	923	Ohio–VAP	CL0069
Idaho	TN00003	Oklahoma	9915
Illinois	200008	Oregon	TN200002
Indiana	C-TN-01	Pennsylvania	68-02979
Iowa	364	Rhode Island	221
Kansas	E-10277	South Carolina	84004
Kentucky [1]	90010	South Dakota	n/a
Kentucky [2]	16	Tennessee [1 4]	2006
Louisiana	AI30792	Texas	T 104704245-07-TX
Maine	TN0002	Texas [5]	LAB0152
Maryland	324	Utah	6157585858
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	109
Minnesota	047-999-395	Washington	C1915
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA
Nebraska	NE-OS-15-05		

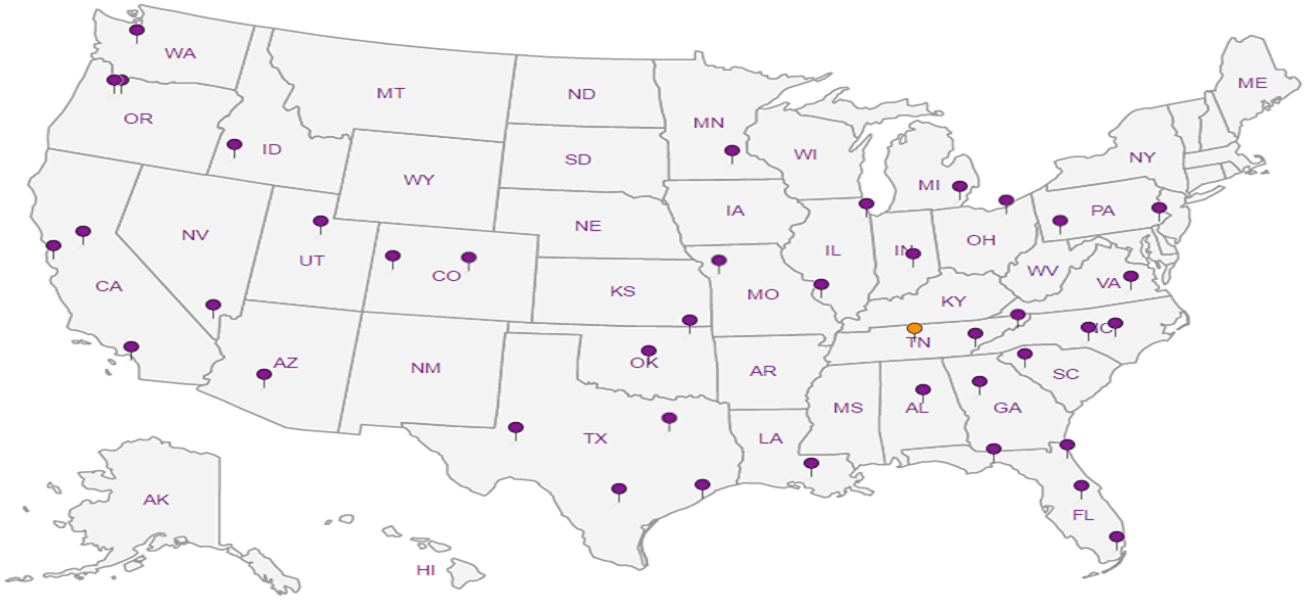
Third Party & Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	S-67674
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [n/a] Accreditation not applicable

Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. **ESC Lab Sciences performs all testing at our central laboratory.**



Remedial Construction Services, L.P.

950 West Valley Rd.
Suite 2802
Wayne, PA 19087

Billing Information:
Accounts Payable
950 West Valley Rd., Ste. 2802
Wayne, PA 19087

Report to: Mr. John Geary

Email To: john.geary@reconservices.com; kyle.snyder@reconservices.com

Project Description: Elmira, NY

City/State Collected: ELMIRA, NY

Phone: 484-367-5400

Client Project # 23925

Lab Project # REMCONWPA-060117S

Fax:

Collected by (print): Alex Ambrosino

Site/Facility ID #

P.O. # 23925-0007

Collected by (signature):

Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Pres Chk

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	CN,CR3,CR6 4ozClr-NoPres	Mtls, TS 2ozClr-NoPres	SV8081/8082, SV8270D 4ozClr-NoPres	TS 4ozClr-NoPres	V8260C 40ml/NaHSO4/Syr/MeOH	Remarks	Sample # (lab only)
[illegible]	[illegible]	SS				3	X	X	X				
Composite 2	Comp	SS		7-18-17	14:30	3	X	X	X				-01
Composite 2MS	Comp	SS		7-18-17	14:30	3	X	X	X				-01
Composite 2MSD	Comp	SS		7-18-17	14:30	3	X	X	X				-01
Grab 4	Grab	SS		[illegible]	13:45	4				X	X		-02
Grab 1	Grab	SS		7-18-17	13:10	4				X	X		-03
Grab 6	Grab	SS		7-18-17	14:00	4				X	X		-04
Grab 5	Grab	SS		7-18-17	13:50	4				X	X		-05
DUP1	Grab	SS		7-18-17	—	4				X	X		-06
Grab 7	Grab	SS		7-18-17	14:10	4				X	X		-07

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier __ _____

Tracking # 7372 1965 8080 7372 1957 9317

Relinquished by: (Signature) — Date: 7-18-17 — Time: 1800 — Received by: (Signature)

Trip Blank Received: Yes / No — HCl / MeOH — TBR — 2

Relinquished by: (Signature) — Date: — Time: — Received by: (Signature)

Temp: 5.3 °C — Bottles Received: 55

If preservation required by Login: Date/Time

Relinquished by: (Signature) — Date: — Time: — Received for lab by: (Signature) Marina Malone — Date: 7-19-17 — Time: 0845

Hold:

Condition: NCF / OK

Sample Receipt Checklist
COC Seal Present/Intact: NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N

Chain of Custody Page 1 of 2

ESC LABORATORIES
a subsidiary of Environmental

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# L923206

B121

Acctnum: REMCONWPA
Template: T124625
Prelogin: P609523
TSR: 364 - T. Alan Harvill
PB: JG 7-10-17
Shipped Via: FedEx Ground

Remedial Construction Services, L.P.

950 West Valley Rd.
Suite 2802
Wayne, PA 19087

Billing Information:
Accounts Payable
950 West Valley Rd., Ste. 2802
Wayne, PA 19087

Pres Chk

Report to: Mr. John Geary

Email To: john.geary@reconservices.com; kyle.snyder@reconservices.com

Project Description: Elmira, NY

City/State Collected: ELMIRA, NY

Phone: 484-367-5400
Fax:

Client Project # 23925

Lab Project # REMCONWPA-060117S

Collected by (print): Alex Ambrosino

Site/Facility ID #

P.O. # 23925-0007

Collected by (signature): a. a

Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	CN,CR3,CR6 4ozClr-NoPres	Mtls, TS 2ozClr-NoPres	SV8081/8082, SV8270D 4ozClr-NoPres	TS 4ozClr-NoPres	V8260C 40ml/NaHSO4/Syr/MeOH	Remarks	Sample # (lab only)
Grab 3	Grab	SS		7-18-17	13:35	4				X	X		-08
Grab 7 MSD	Grab	SS		7-18-17	14:10	4				X	X		-07
Grab 7 MS	Grab	SS		7-18-17	14:10	4				X	X		-07
Grab 2	Grab	SS		7-18-17	13:25	4				X	X		-09
		SS				4				X	X		
Composite 1	Comp	SS		7-18-17	14:20	3	X	X	X				-10
Dup 2	Comp	SS		7-18-17	—	3	X	X	X				-11

Analysis / Container / Preservative

Chain of Custody Page 2 of 2

ESC LABORATORIES
a subsidiary of Pace Analytical

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# L923206

Table #

Acctnum: REMCONWPA
Template: T124625
Prelogin: P609523
TSR: 364 - T. Alan Harvill
PB: JTA 7-19-17
Shipped Via: FedEx Ground

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier __ _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCl / MeoH TBR
Kyle Snyder	7-18-17	1800		2
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 5.3 °C Bottles Received: 55
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature) Marina Malone	Date: 7-19-17 Time: 0845

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

Geosyntec consultants

180A Market Place Blvd.
Knoxville, TN 37922
PH 865.330.0037
www.geosyntec.com

Memorandum

Date: 03 August 2017

To: Aron Krasnopoler

From: Mary Tyler

CC: J. Caprio

Subject: Stage 2A Data Validation - Level II Data Deliverable, ESC Lab Sciences Sample Delivery Group # L923206

SITE: RECON Submittal 02-3925-010 Topsoil

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of nine solid samples, including two samples for matrix spike/matrix spike duplicate (MS/MSD) analyses and two field duplicate samples, collected July 18, 2017, as part of the RECON Submittal 02-3925-010 Topsoil project. The analyses were performed at ESC Lab Sciences, Mount Juliet, Tennessee. The samples were analyzed for the following tests:

- Volatile Organic Compounds (VOCs) by EPA Methods 5035/8260C
- Semivolatile Organic Compounds (SVOCs) by EPA Methods 3546/8270D
- Organochlorine Pesticides by EPA Methods 3546/8081
- Polychlorinated Biphenyls (PCBs) by EPA Methods 3546/8082
- Metals by EPA Methods 3050B/6010B
- Trivalent Chromium by Calculation
- Mercury by EPA Method 7471A
- Hexavalent Chromium by EPA Methods 3060A/7196A
- Total Cyanide by EPA Method 9012B
- Total Solids by Standard Method 2540G

EXECUTIVE SUMMARY

The samples were handled, prepared, and measured in the same manner under similar prescribed conditions.

Overall, based on this Stage 2A data validation covering the quality control (QC) parameters listed below, the data as qualified are usable for meeting project objectives, with the following

exceptions. One or both MS/MSD recoveries of 1,3-dichlorobenzene, naphthalene, styrene, 1,2,3-trichlorobenzene, 1,2,4-trichlorobenzene, n-butylbenzene, 2-chlorotoluene, 4-chlorotoluene, 1,2-dichlorobenzene, 1,4-dichlorobenzene and hexachloro-1,3-butadiene were less than 20%, outside the validation guidance acceptance criteria. Therefore, the nondetect results of these compounds in sample GRAB 7 were R qualified as rejected. In addition, the nondetect benzidine result in sample COMPOSITE 2 was R qualified as rejected due to no MS/MSD recoveries (0%).

The remaining qualified data should be used within the limitations of the qualification.

The data were validated based on the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review, January 2017 (EPA 540-R-2017-002), USEPA Contract Laboratory Program National Functional Guidelines for Superfund Inorganic Methods Data Review, January 2017 (EPA 540-R-2017-001), the pertinent methods referenced by the laboratory report and professional and technical judgment.

The following samples were analyzed and validated at Stage 2A level in the data set:

Laboratory ID	Client ID
L923206-01	COMPOSITE 2
L923206-01MS	COMPOSITE 2MS
L923206-01MSD	COMPOSITE 2MSD
L923206-02	GRAB 4
L923206-03	GRAB 1
L923206-04	GRAB 6
L923206-05	GRAB 5
L923206-06	DUP 1

Laboratory ID	Client ID
L923206-07	GRAB 7
L923206-07MS	GRAB 7MS
L923206-07MSD	GRAB 7MSD
L923206-08	GRAB 3
L923206-09	GRAB 2
L923206-10	COMPOSITE 1
L923206-11	DUP 2

The samples were received at the laboratory at 5.3ºC, within the criteria of 0-6ºC. No sample preservation issues were noted by the laboratory.

The following sample receiving issues were noted:

- The chain of custody (COC) had a note that indicated two trip blanks were sent in with the samples; the trip blank IDs were not listed on the COC for analysis and trip blank results were not reported. Additional information from the laboratory indicated that trip blanks are sent to the field with the empty sample containers; analysis is performed if indicated on the COC.

- Incorrect error corrections were observed on the COC, instead of the proper procedure of a single strike through, correction, and initials and date of person making the corrections.

- Sample collection times were not documented on the COC for field duplicate samples DUP 1 and DUP 2. The laboratory assigned collection times of 00:00.

The solids data, used to report the samples on a dry weight basis, were not validated.

1.0 VOLATILE ORGANIC COMPOUNDS

The samples were analyzed for VOCs by EPA methods 5035/8260B.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

⊗ Overall Assessment
✓ Holding Times
✓ Method Blank
⊗ Matrix Spike/Matrix Spike Duplicate
⊗ Laboratory Control Sample
✓ Surrogates
✓ Trip Blank
✓ Field Duplicate
✓ Sensitivity
✓ Electronic Data Deliverable Review

1.1 Overall Assessment

The VOC data reported in this data set are considered usable for meeting project objectives, with the following exceptions. One or both MS/MSD recoveries of 1,3-dichlorobenzene, naphthalene, styrene, 1,2,3-trichlorobenzene, 1,2,4-trichlorobenzene, n-butylbenzene, 2-chlorotoluene, 4-chlorotoluene, 1,2-dichlorobenzene, 1,4-dichlorobenzene and hexachloro-1,3-butadiene were less than 20%, outside the validation guidance acceptance criteria. Therefore, the nondetect results of these compounds in sample GRAB 7 were R qualified as rejected. The analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this data set is 97.9%.

1.2 Holding Times

The holding times for the VOC analysis of a solid sample collected using a Terracore are 48 hours from collection to laboratory receipt and 14 days from sample collection to analysis. The holding times were met for the sample analyses.

1.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch WG1000613). VOCs were not detected in the method blank above the method detection limits (MDLs), with the following exception.

Methylene chloride was detected at an estimated concentration, greater than the MDL and less than the (RL). Since methylene chloride was not detected in the associated samples, no qualifications were applied to the data.

1.4 Matrix Spike/Matrix Spike Duplicate

MS/MSD pairs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One sample set specific MS/MSD pair was reported, using sample GRAB 7. The recovery and relative percent difference (RPD) results were within the laboratory specified acceptance criteria, with the following exceptions.

The recoveries of acetone and the RPDs for 1,3-dichlorobenzene and styrene were high and outside the laboratory specified acceptance criteria. Since 1,3-dichlorobenzene and styrene were not detected in sample GRAB 7, no qualifications were applied to the 1,3-dichlorobenzene and styrene data due to the RPD results. However, due to the high recoveries, the concentration of acetone in sample GRAB 7 was J qualified as estimated.

One or both MS/MSD recoveries of 1,3-dichlorobenzene, naphthalene, styrene, 1,2,3-trichlorobenzene and 1,2,4-trichlorobenzene were low and outside the laboratory specified acceptance criteria; the MS/MSD recoveries were less than 20%, outside the validation guidance acceptance criteria. Therefore, the nondetect results of these compounds in sample GRAB 7 were R qualified as rejected.

One or both MS/MSD recoveries of the following compounds were within the laboratory specified acceptance criteria, but less than 20%, outside the validation guidance acceptance criteria. Therefore, based on professional and technical judgment, the nondetect results of these compounds in sample GRAB 7 were R qualified as rejected.

Bromobenzene	4-Chlorotoluene	Hexachloro-1,3-Butadiene
N-Butylbenzene	1,2-Dichlorobenzene	1,2,4-Trimethylbenzene
2-Chlorotoluene	1,4-Dichlorobenzene	1,3,5-Trimethylbenzene

Sample ID	Compound	Laboratory Result (mg/kg)	Laboratory Flag	Validation Result (mg/kg)	Validation Qualifier*	Reason Code**
GRAB 7	Acetone	0.0386	J J5	0.0386	J	4
GRAB 7	Bromobenzene	0.000332	U	0.000332	R	4
GRAB 7	N-Butylbenzene	0.000302	U	0.000302	R	4
GRAB 7	2-Chlorotoluene	0.000352	U	0.000352	R	4
GRAB 7	4-Chlorotoluene	0.000281	U	0.000281	R	4
GRAB 7	1,2-Dichlorobenzene	0.000357	U	0.000357	R	4
GRAB 7	1,3-Dichlorobenzene	0.000280	U J3	0.000280	R	4
GRAB 7	1,4-Dichlorobenzene	0.000264	U	0.000264	R	4
GRAB 7	Hexachloro-1,3-Butadiene	0.000400	U	0.000400	R	4
GRAB 7	Naphthalene	0.00117	U J6	0.00117	R	4
GRAB 7	Styrene	0.000274	U J3 J6	0.000274	R	4
GRAB 7	1,2,3-Trichlorobenzene	0.000353	U J6	0.000353	R	4
GRAB 7	1,2,4-Trichlorobenzene	0.000448	U J6	0.000448	R	4
GRAB 7	1,2,4-Trimethylbenzene	0.000247	U	0.000247	R	4
GRAB 7	1,3,5-Trimethylbenzene	0.000311	U	0.000311	R	4

mg/kg-milligrams per kilogram
U-not detected at or above the stated MDL
J-laboratory flag indicating that the identification of the analyte is acceptable; the reported value is an estimate
J5-laboratory flag indicating that the sample matrix interfered with the ability to make any accurate determination; spike value is high
J3-laboratory flag indicating that the associated batch QC was outside the established quality control range for precision
J6-laboratory flag indicating that the sample matrix interfered with the ability to make any accurate determination; spike value is low
* Validation qualifiers are defined in Attachment 1 at the end of this report
**Reason codes are defined in Attachment 2 at the end of this report

1.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS/LCSD pair was reported. The recovery and RPD results were within the laboratory specified acceptance criteria, with the following exceptions.

The LCS recovery of bromoform and the acetone RPD were high, outside laboratory specified acceptance criteria. Since bromoform was not detected in the associated samples, no qualifications were applied to the bromoform data. However, based on professional and technical judgment, the concentrations of acetone in the associated samples were J qualified as estimated.

Sample ID	Compound	Laboratory Result (mg/kg)	Laboratory Flag	Validation Result (mg/kg)	Validation Qualifier	Reason Code
GRAB 4	Acetone	0.0231	J J3	0.0231	J	5
GRAB 1	Acetone	0.0351	J J3	0.0351	J	5
GRAB 6	Acetone	0.0356	J J3	0.0356	J	5
GRAB 5	Acetone	0.0324	J J3	0.0324	J	5
DUP 1	Acetone	0.0254	J J3	0.0254	J	5
GRAB 7	Acetone	0.0386	J J5	0.0386	J	5
GRAB 3	Acetone	0.0308	J J3	0.0308	J	5
GRAB 2	Acetone	0.0466	J J3	0.0466	J	5

mg/kg-milligrams per kilogram
J-laboratory flag indicating that the identification of the analyte is acceptable; the reported value is an estimate
J5-laboratory flag indicating that the sample matrix interfered with the ability to make any accurate determination; spike value is high
J3-laboratory flag indicating that the associated batch QC was outside the established quality control range for precision

1.6 Surrogates

Acceptable surrogate recoveries were reported.

1.7 Trip Blank

Two trip blanks accompanied the samples, but were not analyzed. No qualifications were applied to the data, but this should be noted by the data user.

1.8 Field Duplicate

Two field duplicates were collected with the sample set. One field duplicate was analyzed for VOCs, DUP 1. Acceptable precision [RPD <40% for results greater than five times the reporting limit (RL) and ±2 times the RL for results less than five times the RL] was demonstrated between the field duplicate and the original sample, Grab 3.

1.9 Sensitivity

The samples were reported to the MDLs. No elevated non-detect results were reported.

The MDLs were at or below the NYSDEC DER10 App 5 Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010 listed in the electronic data deliverable (EDD). It was noted that no NYSDEC constituent levels were listed in the EDD for the following compounds:

Acrylonitrile
Bromobenzene
Bromodichloromethane
Bromoform
Bromomethane
Chlorodibromomethane
Chloroethane
Chloromethane
2-Chlorotoluene
4- Chlorotoluene
1,2-Dibromo-3-Chloropropane
1,2-Dibromoethane
Dibromomethane
Dichlorodifluoromethane
1,2-Dichloropropane
1,1- Dichloropropene
1,3- Dichloropropane
CIS-1,3- Dichloropropene

Trans-1,3- Dichloropropene
2,2- Dichloropropane
Di-isopropyl Ether
Hexachloro-1,3-butadiene
Isopropylbenzene
p-Isopropyltoluene
4-Methyl-2-Pentanone (MIBK)
Styrene
1,1,1,2-Tetrachloroethane
1,1,2,2- Tetrachloroethane
1,1,2-Trichlorotrifluoroethane
1,2,3-Trichlorobenzene
1,2,4- Trichlorobenzene
1,1,2-Trichloroethane
Trichlorofluoromethane
1,2,3-Trichloropropane
1,2,3-Trimethylbenzene

1.10 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The samples were reported to the MDLs in the hardcopy report; the nondetect results in the EDD were reported

to the RLs. In addition, the QC data were not included in the EDD. No other discrepancies were identified between the level II report and the EDD.

2.0 SEMIVOLATILE ORGANIC COMPOUNDS

The samples were analyzed for SVOCs by EPA methods 3546/8270D.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

⊗ Overall Assessment
✓ Holding Times
✓ Method Blank
⊗ Matrix Spike/Matrix Spike Duplicate
✓ Laboratory Control Sample
✓ Surrogates
✓ Field Duplicate
✓ Sensitivity
⊗ Electronic Data Deliverable Review

2.1 Overall Assessment

The SVOC data reported in this data set are considered usable for meeting project objectives, with the following exceptions. The nondetect benzidine results were R qualified as rejected due to no MS/MSD recoveries (0%) and professional and technical judgment. Therefore, the analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this data set is 99.4%.

The nondetect hexachlorocyclopentadiene results in the samples were flagged with J0, indicating the calibration verification was outside of acceptance limits and the result was estimated. Additional information sent by the laboratory indicated the continuing calibration verification (CCV) percent difference (%D) for hexachlorocyclopentadiene was 70%D, with a low bias. Therefore, based on professional and technical judgment, the nondetect hexachlorocyclopentadiene results in the associated samples were UJ qualified as estimated less than the MDL.

Sample ID	Compound	Laboratory Result (mg/kg)	Laboratory Flag	Validation Result (mg/kg)	Validation Qualifier	Reason Code
COMPOSITE 2	Hexachloro-cyclopentadiene	0.0667	U J0	0.0667	UJ	9
COMPOSITE 1	Hexachloro-cyclopentadiene	0.0657	U J0 J3	0.0657	UJ	9
DUP 2	Hexachloro-cyclopentadiene	0.0658	U J0 J3	0.0658	UJ	9

mg/kg-milligrams per kilogram
U-not detected at or above the stated MDL
J3-laboratory flag indicating that the associated batch QC was outside the established quality control range for precision
J0-laboratory flag indicating that the calibration verification was outside of acceptance limits and the result was estimated

2.2 Holding Times

The holding times for SVOC analysis of solid samples are 14 days from sample collection to extraction and 40 days from extraction to analysis. The holding times were met for the sample analyses.

2.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch WG1002043). SVOCs were not detected in the method blank above the MDLs.

2.4 Matrix Spike/Matrix Spike Duplicate

MS/MSD pairs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One sample set specific MS/MSD pair was reported, using sample COMPOSITE 2. The recovery and RPD results were within the laboratory specified acceptance criteria, with the following exceptions.

There were no recoveries of benzidine (0%). Therefore, based on professional and technical judgment, the nondetect results of benzidine sample COMPOSITE 2 was R qualified as rejected. In addition, the RPDs for benzo(a)anthracene, chrysene, fluoranthene, phenanthrene and pyrene were high and outside laboratory specified acceptance criteria. Therefore, the concentrations of anthracene, chrysene, fluoranthene, phenanthrene and pyrene in sample COMPOSITE 2 were J qualified as estimated.

Sample ID	Compound	Laboratory Result (mg/kg)	Laboratory Flag	Validation Result (mg/kg)	Validation Qualifier	Reason Code
COMPOSITE 2	Benzidine	0.0723	U J6	0.0723	R	4
COMPOSITE 2	Benzo(a)anthracene	0.0323	J J3	0.0323	J	4
COMPOSITE 2	Chrysene	0.0317	J J3	0.0317	J	4
COMPOSITE 2	Fluoranthene	0.0543	J3	0.0543	J	4
COMPOSITE 2	Phenanthrene	0.0234	J J3	0.0234	J	4
COMPOSITE 2	Pyrene	0.0456	J3	0.0456	J	4

mg/kg-milligrams per kilogram
U-not detected at the stated MDL
J-laboratory flag indicating that the identification of the analyte is acceptable; the reported value is an estimate
J3-laboratory flag indicating that the associated batch QC was outside the established quality control range for precision
J6-laboratory flag indicating that the sample matrix interfered with the ability to make any accurate determination; spike value is low

2.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS/LCSD pair was reported. The recovery and RPD results were within the laboratory specified acceptance criteria, with the following exceptions.

The RPDs of the following compounds were high and outside laboratory specified acceptance criteria. Since these compounds were not detected in the associated samples, no qualifications were applied to the data, based on professional and technical judgment.

Bis(2-chloroethyl)ether
Bis (2-chloroisopropyl) ether
2-Chloronaphthalene
Hexachloro-1,3-butadiene
Hexachlorocyclopentadiene
Hexachloroethane
Naphthalene

Nitrobenzene
N-Nitroso-n-propylamine
1,2,4-Trichlorobenzene
2-Chlorophenol
2-Nitrophenol
Phenol

2.6 Surrogates

Acceptable surrogate recoveries were reported.

2.7 Field Duplicate

Two field duplicates were collected with the sample set. One field duplicate was analyzed for SVOCs, DUP 2. Acceptable precision (RPD <40% for results greater than five times the RL and ±2 times the RL for results less than five times the RL) was demonstrated between the field duplicate and the original sample, COMPOSITE 1.

2.8 Sensitivity

The samples were reported to the MDLs. No elevated non-detect results were reported.

The MDLs were at or below the NYSDEC DER10 App 5 Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010 listed in the EDD. It was noted that NYSDEC constituent levels were listed in the EDD for the following compounds; the other SVOCs did not have NYSDEC constituent levels listed.

Acenaphthene
Acenaphthylene
Anthracene
Benzo(a) anthracene
Benzo(k)fluoranthene
Benzo(b)fluoranthene
Benzo(g,h,i)perylene
Benzo(a)pyrene
Chrysene
Dibenz(a,h)anthracene

Fluoranthene
Fluorene
Hexachlorobenzene
Indeno(1,2,3-cd)pyrene
Naphthalene
Phenanthrene
Pyrene
Pentachlorophenol
Phenol

2.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The samples were reported to the MDLs in the hardcopy report; the nondetect results in the EDD were reported to the RLs. In addition, the QC data were not included in the EDD. No other discrepancies were identified between the level II report and the EDD.

3.0 ORGANOCHLORINE PESTICIDES

The samples were analyzed for organochlorine pesticides by EPA Methods 3546/8081.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

✓ Overall Assessment
✓ Holding Times
✓ Method Blank
✓ Matrix Spike/Matrix Spike Duplicate
✓ Laboratory Control Sample
✓ Surrogates
✓ Field Duplicate
✓ Sensitivity
⊗ Electronic Data Deliverable Review

3.1 Overall Assessment

The organochlorine pesticide data reported in this data set are considered usable for meeting project objectives. The analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this data set is 100%.

3.2 Holding Times

The holding times for organochlorine pesticide analysis of solid samples are 14 days from sample collection to extraction and 40 days from extraction to analysis. The holding times were met for the sample analyses.

3.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch WG1000657). The organochlorine pesticides were not detected in the method blank above the MDLs.

3.4 Matrix Spike/Matrix Spike Duplicate

MS/MSD pairs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One sample set specific MS/MSD pair was reported, using sample COMPOSITE 2. The recovery and RPD results were within the laboratory specified acceptance criteria.

3.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS/LCSD pair was reported. The recovery and RPD results were within the laboratory specified acceptance criteria.

3.6 Surrogates

Acceptable surrogate recoveries were reported for the sample analyses.

3.7 Field Duplicate

Two field duplicates were collected with the sample set. One field duplicate was analyzed for organochlorine pesticides, DUP 2. Acceptable precision (RPD <40% for results greater than five times the RL and ±2 times the RL for results less than five times the RL) was demonstrated between the field duplicate and the original sample, COMPOSITE 1.

3.8 Sensitivity

The samples were reported to the MDLs. No elevated non-detect results were reported.

The MDLs were at or below the NYSDEC DER10 App 5 Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010 listed in the EDD. It was noted that no NYSDEC constituent levels were listed in the EDD for endrin aldehyde, endrin ketone, heptachlor expoxide, methoxychlor, chlordane and toxaphene.

3.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The samples were reported to the MDLs in the hardcopy report; the nondetect results in the EDD were reported to the RLs. In addition, the QC data were not included in the EDD. No other discrepancies were identified between the level II report and the EDD.

4.0 POLYCHLORINATED BIPHENYLS

The samples were analyzed for PCBs by EPA Methods 3546/8082A.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues

were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Surrogates
- ✓ Field Duplicate
- ✓ Sensitivity
- ⊗ Electronic Data Deliverable Review

4.1 Overall Assessment

The PCB data reported in this data set are considered usable for meeting project objectives. The analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this data set is 100%.

4.2 Holding Times

No holding times are listed in the referenced method for PCB analyses. The samples were extracted and analyzed within 4 days of collection. Therefore, no qualifications were applied to the data, based on professional and technical judgment.

4.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch WG1000657). PCBs were not detected in the method blank above the MDLs.

4.4 Matrix Spike/Matrix Spike Duplicate

MS/MSD pairs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One sample set specific MS/MSD pair was reported, using sample COMPOSITE 2. The recovery and RPD results were within the laboratory specified acceptance criteria.

4.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS/LCSD pair was reported. The recovery and RPD results were within the laboratory specified acceptance criteria.

4.6 Surrogates

Acceptable surrogate recoveries were reported for the sample analyses.

4.7 Field Duplicate

Two field duplicates were collected with the sample set. One field duplicate was analyzed for PCBs, DUP 2. Acceptable precision (RPD <40% for results greater than five times the RL and ±2 times the RL for results less than five times the RL) was demonstrated between the field duplicate and the original sample, COMPOSITE 1.

4.8 Sensitivity

The samples were reported to the MDLs. No elevated non-detect results were reported.

It was noted that no NYSDEC constituent levels were listed in the EDD for PCBs.

4.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The samples were reported to the MDLs in the hardcopy report; the nondetect results in the EDD were reported to the RLs. In addition, the QC data were not included in the EDD. No other discrepancies were identified between the level II report and the EDD.

5.0 METALS

The samples were analyzed for metals by EPA methods 3050B/6010B (Mercury evaluated separately in Section 6.0, below). The trivalent chromium results were determined by calculation.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

✓ Overall Assessment
✓ Holding Times
✓ Method Blank
⊗ Matrix Spike/Matrix Spike Duplicate
✓ Laboratory Control Sample
✓ Laboratory Duplicate
✓ Field Duplicate
✓ Sensitivity
⊗ Electronic Data Deliverable Review

5.1 Overall Assessment

The metals data reported in this data set are considered usable for meeting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this data set is 100%.

5.2 Holding Times

The holding time for the metals analysis of solid samples is 180 days from sample collection to analysis. The holding times were met for the sample analyses.

5.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch WG1002245). The metals were not detected in the method blank above the MDLs.

5.4 Matrix Spike/Matrix Spike Duplicate

MS/MSD pairs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One sample set specific MS/MSD pair was reported, using sample COMPOSITE 2. The recovery and RPD results were within the laboratory specified acceptance criteria, with the following exceptions.

The recoveries of manganese were high and outside the laboratory specified acceptance criteria. Therefore, the concentration of manganese in sample COMPOSITE 2 was J+ qualified as estimated with a high bias.

Sample ID	Compound	Laboratory Result (mg/kg)	Laboratory Flag	Validation Result (mg/kg)	Validation Qualifier	Reason Code
COMPOSITE 2	Manganese	388	J5	388	J+	4

mg/kg-milligrams per kilogram
J5-laboratory flag indicating that the sample matrix interfered with the ability to make any accurate determination; spike value is high

5.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS/LCSD pair was reported. The recovery and RPD results were within the laboratory specified acceptance criteria.

5.6 Laboratory Duplicate

A laboratory duplicate was not reported.

5.7 Field Duplicate

Two field duplicates were collected with the sample set. One field duplicate was analyzed for metals, DUP 2. Acceptable precision (RPD <40% for results greater than five times the RL and ±2 times the RL for results less than five times the RL) was demonstrated between the field duplicate and the original sample, COMPOSITE 1.

5.8 Sensitivity

The samples were reported to the MDLs. No elevated non-detect results were reported.

The MDLs were at or below the NYSDEC DER10 App 5 Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010 listed in the EDD. It was noted that no NYSDEC constituent level was listed in the EDD for chromium.

5.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The samples were reported to the MDLs in the hardcopy report; the nondetect results in the EDD were reported to the RLs. In addition, the QC data were not included in the EDD. No other discrepancies were identified between the level II report and the EDD.

6.0 MERCURY

The samples were analyzed for mercury by EPA method 7471A.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

✓ Overall Assessment
✓ Holding Times
✓ Method Blank
✓ Matrix Spike/Matrix Spike Duplicate
✓ Laboratory Control Sample
✓ Laboratory Duplicate
✓ Field Duplicate
✓ Sensitivity
⊗ Electronic Data Deliverable Review

6.1 Overall Assessment

The mercury data reported in this data set are considered usable for meeting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this data set is 100%.

6.2 Holding Times

The holding time for the mercury analysis of solid samples is 28 days from sample collection to analysis. The holding times were met for the sample analyses.

6.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch WG1000398). Mercury was not detected in the method blank above the MDL.

6.4 Matrix Spike/Matrix Spike Duplicate

MS/MSD pairs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One sample set specific MS/MSD pair was reported, using

sample COMPOSITE 2. The recovery and RPD results were within the laboratory specified acceptance criteria.

6.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS/LCSD pair was reported. The recovery and RPD results were within the laboratory specified acceptance criteria.

6.6 Laboratory Duplicate

A laboratory duplicate was not reported.

6.7 Field Duplicate

Two field duplicates were collected with the sample set. One field duplicate was analyzed for mercury, DUP 2. Acceptable precision (RPD <40% for results greater than five times the RL and ±2 times the RL for results less than five times the RL) was demonstrated between the field duplicate and the original sample, COMPOSITE 1.

6.8 Sensitivity

The samples were reported to the MDL. No elevated non-detect results were reported.

The MDL was at or below the NYSDEC DER10 App 5 Constituent Level for Imported Fill or Soil Restricted Residential Use May 2010 listed in the EDD.

6.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The samples were reported to the MDL in the hardcopy report; the nondetect results in the EDD were reported to the RL. In addition, the QC data were not included in the EDD. No other discrepancies were identified between the level II report and the EDD.

7.0 HEXAVALENT CHROMIUM

The samples were analyzed for hexavalent chromium by EPA Methods 3060A/7196A.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues

were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Field Duplicate
- ✓ Sensitivity
- ⊗ Electronic Data Deliverable Review

7.1 Overall Assessment

The hexavalent chromium data reported in this data set are considered usable for meeting project objectives. The analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this data set is 100%.

7.2 Holding Times

The holding times for the hexavalent chromium analysis of solid samples are 30 days from sample collection to digestion and 7 days from digestion to analysis. The holding times were met for the sample analyses.

7.3 Method Blanks

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two method blanks were reported (batches WG1000369 and WG1000857). Hexavalent chromium was not detected in the method blanks above the MDL.

7.4 Matrix Spike/Matrix Spike Duplicate

One sample set specific MS/MSD pair was reported, using sample COMPOSITE 2. The RPD result was within the laboratory specified acceptance criteria. The recoveries were low and outside the laboratory specified acceptance criteria. In addition, the laboratory indicated that this sample was in a reductive state. Additional information was sent by the laboratory, documenting the reductive nature of the sample. Therefore, based on professional and technical judgment, no qualification was applied to the hexavalent chromium result in sample COMPOSITE 2.

7.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two LCS/LCSD pairs were reported. The recovery and RPD results were within the laboratory specified acceptance criteria.

7.6 Laboratory Duplicate

Three batch laboratory duplicates were reported. Since these were batch QC, there was no impact on the data and no qualifications were applied to the data.

7.7 Field Duplicate

Two field duplicates were collected with the sample set. One field duplicate was analyzed for hexavalent chromium, DUP 2. Acceptable precision (RPD <40% for results greater than five times the RL and ±2 times the RL for results less than five times the RL) was demonstrated between the field duplicate and the original sample, COMPOSITE 1.

7.8 Sensitivity

The samples were reported to the MDL. No elevated non-detect results were reported.

The MDL was at or below the NYSDEC DER10 App 5 Constituent Level for Imported Fill or Soil Restricted Residential Use May 2010 listed in the EDD.

7.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The samples were reported to the MDL in the hardcopy report; the nondetect results in the EDD were reported to the RL. In addition, the QC data were not included in the EDD. No other discrepancies were identified between the level II report and the EDD.

8.0 TOTAL CYANIDE

The samples were analyzed for total cyanide by EPA Methods 9012B.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

✓ Overall Assessment
✓ Holding Times
✓ Method Blank
⊗ Matrix Spike/Matrix Spike Duplicate
✓ Laboratory Control Sample
✓ Laboratory Duplicate
✓ Field Duplicate
✓ Sensitivity
✓ Electronic Data Deliverable Review

8.1 Overall Assessment

The total cyanide data reported in this data set are considered usable for meeting project objectives. The analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this data set is 100%.

8.2 Holding Times

The holding time for the total cyanide analysis of solid samples is 14 days from sample collection to analysis. The holding times were met for the sample analyses.

8.3 Method Blanks

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch WG1001620). Cyanide was not detected in the method blank above the MDL.

8.4 Matrix Spike

MS/MSD pairs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One sample set specific MS/MSD pair was reported, using sample COMPOSITE 2. The RPD result was within the laboratory specified acceptance criteria. The recoveries were low and outside the laboratory specified acceptance criteria. Therefore, the concentration of cyanide in sample COMPOSITE 2 was J- qualified as estimated with a low bias.

Sample ID	Compound	Laboratory Result (mg/kg)	Laboratory Flag	Validation Result (mg/kg)	Validation Qualifier	Reason Code
COMPOSITE 2	Cyanide	0.0505	J J6	0.0505	J-	4

mg/kg-milligrams per kilogram

J6-laboratory flag indicating that the sample matrix interfered with the ability to make any accurate determination; spike value is low

8.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS/LCSD pair was reported. The recovery and RPD results were within the laboratory specified acceptance criteria.

8.6 Laboratory Duplicate

Two batch laboratory duplicates were reported. Since these were batch QC, there was no impact on the data and no qualifications were applied to the data.

8.7 Field Duplicate

Two field duplicates were collected with the sample set. One field duplicate was analyzed for cyanide, DUP 2. Acceptable precision (RPD <40% for results greater than five times the RL and ±2 times the RL for results less than five times the RL) was demonstrated between the field duplicate and the original sample, COMPOSITE 1.

8.8 Sensitivity

The samples were reported to the MDL. No elevated non-detect results were reported.

The MDL was at or below the NYSDEC DER10 App 5 Constituent Level for Imported Fill or Soil Restricted Residential Use May 2010 listed in the EDD.

8.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The samples were reported to the MDL in the hardcopy report; the nondetect results in the EDD were reported to the RL. In addition, the QC data were not included in the EDD. No other discrepancies were identified between the level II report and the EDD.

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* * * * *

ATTACHMENT 1
DATA VALIDATION QUALIFIER DEFINITIONS AND INTERPRETATION KEY
Assigned by Geosyntec's Data Validation Team

DATA QUALIFIER DEFINITIONS

U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

J+ The analyte was positively identified; however, the associated numerical value is likely to be higher that the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.

J- The analyte was positively identified; however, the associated numerical value is likely to be lower that the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ATTACHMENT 2
DATA VALIDATION REASON CODES
Assigned by Geosyntec's Data Validation Team

Valid Value	Description
1	Preservation requirement not met
2	Analysis holding time exceeded
3	Blank contamination (i.e., method, trip, equipment, etc.)
4	Matrix spike/matrix spike duplicate recovery or RPD outside limits
5	LCS recovery outside limits
6	Surrogate recovery outside limits
7	Field Duplicate RPD exceeded
8	Serial dilution percent difference exceeded
9	Calibration criteria not met
10	Linear range exceeded
11	Internal standard criteria not met
12	Lab duplicates RPD exceeded
13	Other

RPD-relative percent difference

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Request to Import/Reuse Fill or Soil

This form is based on the information required by DER-10, Section 5.4(e). Use of this form is not a substitute for reading the applicable Technical Guidance document.

SECTION 1 – SITE BACKGROUND

The allowable site use is: Restricted Residential Use

Have Ecological Resources been identified? yes

Is this soil originating from the site? no

How many cubic yards of soil will be imported/reused? 800-1000

If greater than 1000 cubic yards will be imported, enter volume to be imported:

SECTION 2 – MATERIAL OTHER THAN SOIL

Is the material to be imported gravel, rock or stone? no

Does it contain less than 10%, by weight, material that would pass a size 80 sieve? yes

Is this virgin material from a permitted mine or quarry? yes

Is this material recycled concrete or brick from a DEC registered processing facility? no

SECTION 3 - SAMPLING

Provide a brief description of the number and type of samples collected in the space below:

Seven (7) Discrete Samples were collected and analyzed for VOCs. Two (2) Composite Samples were collected and analyzed for SVOCs, Inorganics, and PCBs/Pesticides. The chain of custody incorrectly shows the same Sample ID for the composite samples and the first two discrete VOC samples. The Analytical Results have been attached to this form.

Two (2) composite samples were collected and analyzed for grain size distribution and moisture-density.

Example Text: 5 discrete samples were collected and analyzed for VOCs. 2 composite samples were collected and analyzed for SVOCs, Inorganics & PCBs/Pesticides.

If the material meets requirements of DER-10 section 5.5 (other material), no chemical testing needed.

SECTION 3 CONT'D - SAMPLING

Provide a brief written summary of the sampling results or attach evaluation tables (compare to DER-10, Appendix 5):

Analytical results are compared to Restricted Residential SCO.

VOC analyses: acetone, benzene, toluene, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene and total xylenes were detected in 7 of 7 samples at levels below Restricted Residential SCOs.

There were no detections of SVOCs, PCBs, or pesticides in the two composite samples.

Metals analyses: arsenic, barium, beryllium, copper, lead manganese, nickel, zinc, and mercury were detected at levels below Restricted Residential SCOs.

Example Text: Arsenic was detected up to 17 ppm in 1 (of 5) samples; the allowable level is 16 ppm.

If Ecological Resources have been identified use the "If Ecological Resources are Present" column in Appendix 5.

SECTION 4 – SOURCE OF FILL

Name of person providing fill and relationship to the source:

Edger Enterprises

Location where fill was obtained:

Brewer's Pit located in Horseheads NY

Identification of any state or local approvals as a fill source:

NYSDEC Facility ID 8-0734-00150

If no approvals are available, provide a brief history of the use of the property that is the fill source:

Provide a list of supporting documentation included with this request:

Geotechnical Data and the Chemical Analysis Reports

The information provided on this form is accurate and complete.



Signature

6-23-17

Date

Kyle Snyder

Print Name

RECON

Firm

CME Associates, Inc.

701B Chemung Street
Horseheads, New York 14845
(607) 739-4033
(607) 739-4085 (Fax)

www.cmeassociates.com

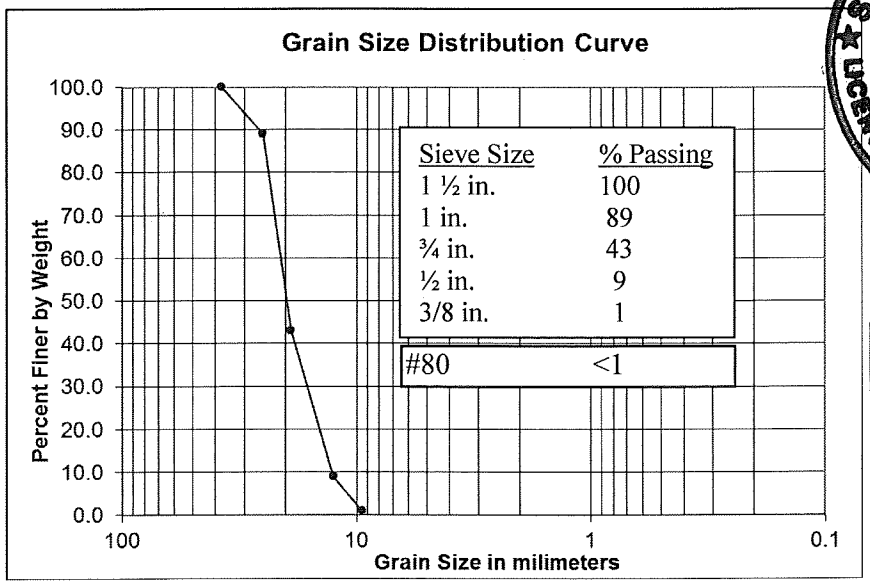
LABORATORY TEST REPORT

PROJECT: **Material Testing – U-Haul**
CLIENT: Edger Enterprises
SAMPLE TYPE: Drainage Fill
SOURCE: **Brewer Pit**

REPORT NO.: 29729L-04-0317
SAMPLE NO.: EL 3055
DATE DELIVERED: March 22, 2017

Test Identification	Sample Result	Specification
Dry Rodded Unit Weight ASTM C 29	96.2 pcf	
Specific Gravity ASTM C 127 (Bulk)	2.644	
Porosity	42%	Greater than 40%

The sample tested meets the specified Porosity.



Note on #80 sieve added by A. Krasnopoler

Note: A size 80 sieve is 0.007 inches (0.177 mm). It is shown above that 1% of the sample by weight passes through a sieve of 3/8 inches. Therefore, the material is exempt by DER-10 Section 5.4(e)5.

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Request to Import/Reuse Fill or Soil

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SECTION 1 – SITE BACKGROUND

The allowable site use is: Restricted Residential Use

Have Ecological Resources been identified? yes

Is this soil originating from the site? no

How many cubic yards of soil will be imported/reused? 800-1000

If greater than 1000 cubic yards will be imported, enter volume to be imported:

SECTION 2 – MATERIAL OTHER THAN SOIL

Is the material to be imported gravel, rock or stone? no

Does it contain less than 10%, by weight, material that would pass a size 80 sieve? yes

Is this virgin material from a permitted mine or quarry? yes

Is this material recycled concrete or brick from a DEC registered processing facility? no

SECTION 3 - SAMPLING

Provide a brief description of the number and type of samples collected in the space below:

Seven (7) Discrete Samples were collected and analyzed for VOCs. Two (2) Composite Samples were collected and analyzed for SVOCs, Inorganics, and PCBs/Pesticides. The chain of custody incorrectly shows the same Sample ID for the composite samples and the first two discrete VOC samples. The Analytical Results have been attached to this form.

Two (2) composite samples were collected and analyzed for grain size distribution and moisture-density.

Example Text: 5 discrete samples were collected and analyzed for VOCs. 2 composite samples were collected and analyzed for SVOCs, Inorganics & PCBs/Pesticides.

If the material meets requirements of DER-10 section 5.5 (other material), no chemical testing needed.

SECTION 3 CONT'D - SAMPLING

Provide a brief written summary of the sampling results or attach evaluation tables (compare to DER-10, Appendix 5):

Analytical results are compared to Restricted Residential SCO.

VOC analyses: acetone, benzene, toluene, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene and total xylenes were detected in 7 of 7 samples at levels below Restricted Residential SCOs.

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Name of person providing fill and relationship to the source:

Edger Enterprises

Location where fill was obtained:

Brewer's Pit located in Horseheads NY

Identification of any state or local approvals as a fill source:

NYSDEC Facility ID 8-0734-00150

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Provide a list of supporting documentation included with this request:

Geotechnical Data and the Chemical Analysis Reports

The information provided on this form is accurate and complete.



Signature

6-23-17

Date

Kyle Snyder

Print Name

RECON

Firm

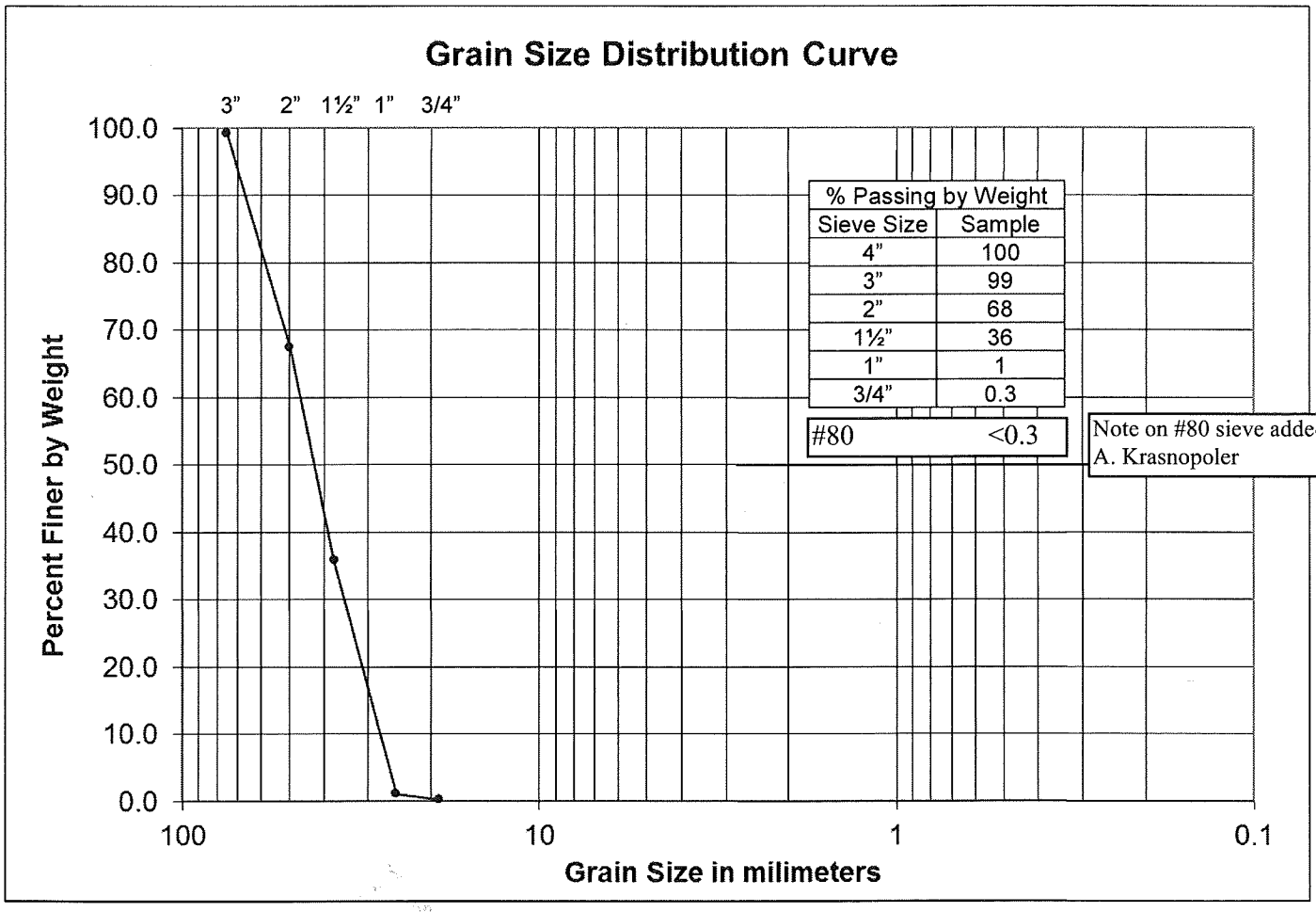
CME Associates, Inc.

701B Chemung Street
Horseheads, New York 14845
(607) 739-4033
(607) 739-4085 (Fax)

www.cmeassociates.com

LABORATORY TEST REPORT

CLIENT: Remedial Construction Services, L.P. **PROJECT:** 2017 Material Testing
REPORT NO.: 29858L-01-0617 **SAMPLE NO.:** EL – 3172 **DATE DELIVERED:** 6/26/17
SAMPLE LOCATION: On-site stockpile **SAMPLE SOURCE:** Brewer Pit
SOIL CLASSIFICATION: #3 and 4 Stone



No grain size requirements were provided for this material.

Note: A size 80 sieve is 0.007 inches (0.177 mm). It is shown above that 0.3% of the sample by weight passes through a sieve of 3/4 inch. Therefore, the material is exempt by DER-10 Section 5.4(e)5.

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Request to Import/Reuse Fill or Soil

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Provide a list of supporting documentation included with this request:

Geotechnical Data and the Chemical Analysis Reports

The information provided on this form is accurate and complete.

	6-23-17
Signature	Date
Kyle Snyder	
Print Name	
RECON	
Firm	

TABLE 1
Request to Import/Reuse Fill or Soil - Windrows 1 to 3
Former Sperry Remington Site - North Portion
Elmira, New York

				Field_ID	WINDROW1, SEC 1, B	WINDROW1, SEC 1, C	WINDROW1, SEC 2, A	WINDROW1, SEC 2, B	WINDROW1, SEC 2, C	WINDROW1, SEC 3, A	WINDROW1, SEC 3, B	WINDROW1, SEC 3, C	WINDROW1, SEC 4, A	WINDROW1, SEC 4, B	WINDROW1, SEC 4, C	W1, S5, A 71117	W1, S5, B 71117	W1, S5, C 71117	W2, S1, A 71117	W2, S1, B 71117	W2, S1, C 71117	W2, S2, A 71117
				Sample Date	7/10/2017	7/10/2017	7/10/2017	7/10/2017	7/10/2017	7/10/2017	7/10/2017	7/10/2017	7/10/2017	7/10/2017	7/10/2017	7/11/2017	7/11/2017	7/11/2017	7/11/2017	7/11/2017	7/11/2017	7/11/2017
				NYSDEC DER10 App 5 Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010																	
Method_Name	**Analyte**	**Units**	**EQL**																			
PCBs	Arochlor 1016	mg/kg	0.0093		-	<0.0098U	-	-	<0.0098U	-	-	<0.0098U	-	-	<0.0099U	-	-	<0.0095U	-	-	<0.0098U	-
	Arochlor 1221	mg/kg	0.0091		-	<0.0095U	-	-	<0.0095U	-	-	<0.0095U	-	-	<0.0096U	-	-	<0.0093U	-	-	<0.0095U	-
	Arochlor 1232	mg/kg	0.0069		-	<0.0073U	-	-	<0.0073U	-	-	<0.0073U	-	-	<0.0074U	-	-	<0.0071U	-	-	<0.0073U	-
	Arochlor 1242	mg/kg	0.014		-	<0.015U	-	-	<0.015U	-	-	<0.015U	-	-	<0.015U	-	-	<0.014U	-	-	<0.015U	-
	Arochlor 1248	mg/kg	0.018		-	1.3J	-	-	1.1J	-	-	1J	-	-	0.91J	-	-	0.63J	-	-	0.84J	-
	Arochlor 1254	mg/kg	0.018		-	0.82J	-	-	0.68J	-	-	0.67J	-	-	0.6J	-	-	0.45J	-	-	0.64J	-
	Arochlor 1260	mg/kg	0.018		-	0.22J	-	-	0.18J	-	-	0.17J	-	-	0.17J	-	-	0.15J	-	-	0.19J	-
	Arochlor 1268	mg/kg	0.0053		-	<0.0056U	-	-	<0.0056U	-	-	<0.0056U	-	-	<0.0057U	-	-	<0.0055U	-	-	<0.0056U	-
	Arochlor 1262	mg/kg	0.013		-	<0.013U	-	-	<0.013U	-	-	<0.013U	-	-	<0.013U	-	-	<0.013U	-	-	<0.013U	-
	Total PCBs	mg/kg		1	-	2.34	-	-	1.96	-	-	1.84	-	-	1.68	-	-	1.23	-	-	1.67	-
SVOCs	1,4-Dioxane	mg/kg	0.027	13	-	<0.055U	-	-	<0.056U	-	-	<0.057U	-	-	<0.056U	-	-	<0.055U	-	-	<0.11U	-
	2-methylphenol	mg/kg	0.016	100	-	<0.033U	-	-	<0.033U	-	-	<0.033U	-	-	<0.033U	-	-	<0.032U	-	-	<0.063U	-
	4-methylphenol	mg/kg	0.016	100	-	<0.033U	-	-	<0.033U	-	-	<0.033U	-	-	<0.033U	-	-	<0.032U	-	-	<0.064U	-
	Acenaphthene	mg/kg	0.013	100	-	<0.025U	-	-	<0.025U	-	-	<0.025U	-	-	<0.025U	-	-	<0.025U	-	-	<0.048U	-
	Acenaphthylene	mg/kg	0.036	100	-	0.28	-	-	0.21	-	-	0.25J	-	-	0.21	-	-	0.099	-	-	0.12J	-
	Anthracene	mg/kg	0.036	100	-	0.18	-	-	0.19	-	-	0.18J	-	-	0.15	-	-	0.11	-	-	0.15J	-
	Benz(a)anthracene	mg/kg	0.036	1	-	0.39	-	-	0.36	-	-	0.52	-	-	0.33	-	-	0.45	-	-	0.59J	-
	Benzo(a) pyrene	mg/kg	0.036	1	-	0.39	-	-	0.37	-	-	0.49	-	-	0.35	-	-	0.45	-	-	0.61J	-
	Benzo(b)fluoranthene	mg/kg	0.036	1	-	0.48	-	-	0.45	-	-	0.62	-	-	0.42	-	-	0.57	-	-	0.78J	-
	Benzo(g,h,i)perylene	mg/kg	0.036	100	-	0.36	-	-	0.34	-	-	0.44	-	-	0.35	-	-	0.47	-	-	0.55J	-
	Benzo(k)fluoranthene	mg/kg	0.036	3.9	-	0.18	-	-	0.17	-	-	0.23J	-	-	0.2	-	-	0.15	-	-	0.21J	-
	Chrysene	mg/kg	0.036	3.9	-	0.44	-	-	0.35	-	-	0.48	-	-	0.33	-	-	0.38	-	-	0.62J	-
	Dibenz(a,h)anthracene	mg/kg	0.036	0.33	-	0.089	-	-	0.085	-	-	0.098	-	-	0.096	-	-	0.11	-	-	0.12J	-
	Dibenzofuran	mg/kg	0.029	59	-	<0.029U	-	-	<0.03U	-	-	0.035J	-	-	<0.03U	-	-	0.04J	-	-	<0.058U	-
	Fluoranthene	mg/kg	0.036	100	-	0.42	-	-	0.49	-	-	0.64J	-	-	0.42	-	-	0.72	-	-	0.93J	-
	Fluorene	mg/kg	0.026	100	-	0.036J	-	-	<0.027U	-	-	0.039J	-	-	0.032J	-	-	<0.026U	-	-	<0.051U	-
	Hexachlorobenzene	mg/kg	0.015	1.2	-	<0.03U	-	-	<0.03U	-	-	<0.03U	-	-	<0.03U	-	-	<0.029U	-	-	<0.058U	-
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.036	0.5	-	0.29	-	-	0.27	-	-	0.35	-	-	0.28	-	-	0.4	-	-	0.5J	-
	Naphthalene	mg/kg	0.036	100	-	0.098	-	-	0.081	-	-	0.12	-	-	0.1	-	-	0.12	-	-	0.16	-
	Pentachlorophenol	mg/kg	0.34	6.7	-	<0.7U	-	-	<0.71U	-	-	<0.71U	-	-	<0.7U	-	-	<0.69U	-	-	-	-
	Phenanthrene	mg/kg	0.036	100	-	0.26	-	-	0.33	-	-	0.39J	-	-	0.29	-	-	0.36	-	-	0.43J	-
	Phenol	mg/kg	0.025	100	-	<0.05U	-	-	<0.05U	-	-	<0.051U	-	-	<0.05U	-	-	<0.049U	-	-	<0.097U	-
	Pyrene	mg/kg	0.036	100	-	0.64	-	-	0.6	-	-	0.82J	-	-	0.55	-	-	0.72	-	-	0.92J	-
VOCs	1,1,1-trichloroethane	mg/kg	0.002	100	<0.0024U	-	<0.0029U	<0.0026U	-	<0.0025U	<0.0025U	-	<0.0026U	<0.0021U	-	<0.0027U	<0.0022U	-	<0.0026U	<0.0022U	-	<0.0024U
	1,1-dichloroethane	mg/kg	0.0014	26	<0.0018U	-	<0.0021U	<0.0019U	-	<0.0018U	<0.0018U	-	<0.0018U	<0.0015U	-	<0.0019U	<0.0016U	-	<0.0019U	<0.0016U	-	<0.0017U
	1,1-dichloroethene	mg/kg	0.0023	100	<0.0028U	-	<0.0033U	<0.0029U	-	<0.0029U	<0.0029U	-	<0.0029U	<0.0024U	-	<0.003U	<0.0025U	-	<0.003U	<0.0025U	-	<0.0027U
	1,2,4-trimethylbenzene	mg/kg	0.0011	52	<0.0013U	-	<0.0015U	<0.0014U	-	<0.0014U	<0.0014U	-	<0.0014U	<0.0011U	-	<0.0014U	<0.0012U	-	<0.0014U	<0.0012U	-	<0.0013U
	1,2-dichlorobenzene	mg/kg	0.0032	100	<0.0039U	-	<0.0046U	<0.0041U	-	<0.0041U	<0.0041U	-	<0.0041U	<0.0033U	-	<0.0043U	<0.0036U	-	<0.0042U	<0.0035U	-	<0.0038U
	1,2-dichloroethane	mg/kg	0.0012	3.1	<0.0014U	-	<0.0017U	<0.0015U	-	<0.0015U	<0.0015U	-	<0.0015U	<0.0012U	-	<0.0016U	<0.0013U	-	<0.0015U	<0.0013U	-	<0.0014U
	1,3,5-trimethylbenzene	mg/kg	0.0014	52	<0.0017U	-	<0.002U	<0.0018U	-	<0.0017U	<0.0017U	-	<0.0018U	<0.0014U	-	<0.0018U	<0.0015U	-	<0.0018U	<0.0015U	-	<0.0016U
	1,3-dichlorobenzene	mg/kg	0.0013	49	<0.0016U	-	<0.0018U	<0.0016U	-	<0.0016U	<0.0016U	-	<0.0016U	<0.0013U	-	<0.0017U	<0.0014U	-	<0.0017U	<0.0014U	-	<0.0015U
	1,4-dichlorobenzene	mg/kg	0.00081	13	<0.00099U	-	<0.0012U	<0.0011U	-	<0.001U	<0.001U	-	<0.001U	<0.00085U	-	<0.0011U	<0.0009U	-	<0.0011U	<0.0009U	-	<0.00097U
	Methyl Ethyl Ketone	mg/kg	0.0023	100	<0.0028U	-	<0.0033U	<0.003U	-	<0.0029U	<0.0029U	-	<0.003U	<0.0024U	-	<0.0031U	<0.0026U	-	<0.003U	<0.0026U	-	<0.0027U
	Acetone	mg/kg	0.0025	100	<0.0031U	-	<0.0036U	<0.0032U	-	<0.0032U	<0.0032U	-	<0.0032U	<0.0026U	-	<0.0034U	<0.0028U	-	<0.0033U	<0.0028U	-	<0.003U
	Benzene	mg/kg	0.0016	4.8	<0.0019U	-	<0.0023U	<0.002U	-	<0.002U	<0.002U	-	<0.002U	<0.0016U	-	<0.0021U	<0.0017U	-	<0.002U	<0.0017U	-	<0.0019U
	Carbon tetrachloride	mg/kg	0.0026	2.4	<0.0032U	-	<0.0038U	<0.0034U	-	<0.0034U	<0.0034U	-	<0.0034U	<0.0028U	-	<0.0035U	<0.0029U	-	<0.0034U	<0.0029U	-	<0.0031U
	Chlorobenzene	mg/kg	0.0013	100	<0.0015U	-	<0.0018U	<0.0016U	-	<0.0016U	<0.0016U	-	<0.0016U	<0.0013U	-	<0.0017U	<0.0014U	-	<0.0016U	<0.0014U	-	<0.0015U
	Chloroform	mg/kg	0.0017	49	<0.0021U	-	<0.0024U	<0.0022U	-	<0.0021U	<0.0021U	-	<0.0022U	<0.0018U	-	<0.0023U	<0.0019U	-	<0.0022U	<0.0019U	-	<0.002U
	cis-1,2-dichloroethene	mg/kg	0.0013	100	<0.0015U	-	<0.0018U	<0.0016U	-	<0.0016U	<0.0016U	-	<0.0016U	<0.0013U	-	<0.0017U	<0.0014U	-	<0.0016U	<0.0014U	-	<0.0015U
	Dichloromethane	mg/kg	0.0019	100	<0.0023U	-	<0.0027U	<0.0024U	-	<0.0024U	<0.0024U	-	<0.0024U	<0.002U	-	<0.0025U	<0.0021U	-	<0.0024U	<0.0021U	-	<0.0022U
	Ethylbenzene	mg/kg	0.0017	41	<0.0021U	-	<0.0025U	<0.0022U	-	<0.0022U	<0.0022U	-	<0.0022U	<0.0018U	-	<0.0023U	<0.0019U	-	<0.0022U	<0.0019U	-	<0.002U
	Methyl-tert-butyl ether	mg/kg	0.0029	100	<0.0036U	-	<0.0042U	<0.0038U	-	<0.0037U	<0.0037U	-	<0.0038U	<0.0031U	-	<0.0039U	<0.0033U	-	<0.0038U	<0.0032U	-	<0.0035U
	n-butylbenzene	mg/kg	0.003	100	<0.0037U	-	<0.0044U	<0.0039U	-	<0.0038U	<0.0038U	-	<0.0039U	<0.0031U	-	<0.004U	<0.0034U	-	<0.0039U	<0.0033U	-	<0.0036U
	n-propylbenzene	mg/kg	0.0017	100	<0.0021U	-	<0.0024U	<0.0022U	-	<0.0021U	<0.0021U	-	<0.0021U	<0.0018U	-	<0.0023U	<0.0019U	-	<0.0022U	<0.0019U	-	<0.002U
	sec-butylbenzene	mg/kg	0.0019	100	<0.0024U	-	<0.0028U	<0.0025U	-	<0.0025U	<0.0025U	-	<0.0025U	<0.002U	-	<0.0026U	<0.0022U	-	<0.0025U	<0.0021U	-	<0.0023U
	Trichloroethene	mg/kg	0.0012	21	<0.0015U	-	<0.0017U	<0.0015U	-	<0.0015U	<0.0015U	-	<0.0015U	<0.0012U	-	<0.0016U	<0.0013U	-	<0.0016U	<0.0013U	-	<0.0014U
	tert-butylbenzene	mg/kg	0.0015	100	<0.0018U	-	<0.0021U	<0.0019U	-	<0.0019U	<0.0019U	-	<0.0019U	<0.0015U	-	<0.002U	<0.0016U	-	<0.0019U	<0.0016U	-	<0.0017U
	Tetrachloroethene	mg/kg	0.0016	19	<0.0019U	-	<0.0023U	<0.0021U	-	<0.002U	<0.002U	-	<0.002U	<0.0017U	-	<0.0021U	<0.0018U	-	<0.0021U	<0.0018U	-	<0.0019U
	Toluene	mg/kg	0.0013	100	<0.0016U	-	<0.0019U	<0.0017U	-	<0.0017U	<0.0017U	-	<0.0017U	<0.0014U	-	<0.0018U	<0.0015U	-	<0.0017U	<0.0015U	-	<0.0016U
	trans-1,2-dichloroethene	mg/kg	0.002	100	<0.0025U	-	<0.0029U	<0.0026U	-	<0.0026U	<0.0026U	-	<0.0026U	<0.0021U	-	<0.0027U	<0.0022U	-	<0.0026U	<0.0022U	-	<0.0024U
	Vinyl chloride	mg/kg	0.0029	0.9	<0.0036U	-	<0.0042U	<0.0038U	-	<0.0037U	<0.0037U	-	<0.0037U	<0.003U	-	<0.0039U	<0.0033U	-	<0.0038U	<0.0032U	-	<0.0035U
	Xylene Total	mg/kg	0.0034	100	<0.0042U	-	<0.0049U	<0.0044U	-	<0.0044U	<0.0044U	-	<0.0044U	<0.0036U	-	<0.0046U	<0.0038U	-	<0.0045U	<0.0038U	-	<0.0041U
Inorganics	Cyanide Total	mg/kg	0.14	27	-	<0.14U	-	-	<0.16U	-	-	0.19J	-	-	<0.15U	-	-	<0.17U	-	-	<0.16U	-
Metals	Arsenic	mg/kg	1	16	-	6.5	-	-	6.5	-	-	7.4	-	-	7.4	-	-	5.8	-	-	6.6	-
	Barium	mg/kg	21	400	-	76	-	-	83	-	-	92	-	-	94	-	-	65	-	-	84	-
	Beryllium	mg/kg	0.41	72	-	0.36J	-	-	0.37J	-	-	0.4J	-	-	0.41J	-	-	0.3J	-	-	0.35J	-
	Cadmium	mg/kg	0.51	4.3	-	0.15J	-	-	0.17J	-	-	0.18J	-	-	0.17J	-	-	0.16J	-	-	0.24J	-
	Chromium (III+VI)	mg/kg	0.51	110	-	9.6	-	-	10	-	-	12	-	-	11	-	-	8	-	-	10	-
	Copper	mg/kg	2.6	270	-	21	-	-	23	-	-	25	-	-	22	-	-	45	-	-	26J-	-
	Lead	mg/kg	1	400	-	31	-	-	31	-	-	36	-	-	32	-	-	38	-	-	33	-
	Manganese	mg/kg	1.5	2000	-	400	-	-	430	-	-	420	-	-	440	-	-	350	-	-	800J	-
	Nickel	mg/kg	4.1	310	-	19	-	-	18	-	-	20	-	-	20	-	-	14	-	-	19	-
	Selenium	mg/kg	0.41	180	-	<0.44U	-	-	0.56J	-	-	<0.45U	-	-	<0.49U	-	-	<0.44U	-	-	0.47J	-
	Silver	mg/kg	0.17	180	-	<0.18U	-	-	<0.19U	-	-	<0.19U	-	-	<0.2U	-	-	<0.18U	-	-	<0.18U	-
	Zinc	mg/kg	2.1	10000	-	66	-	-	67	-	-	75	-	-	74	-	-	72	-	-	76J	-
	Mercury	mg/kg	0.029	0.81	-	0.26	-	-	0.3	-	-	0.45J	-	-	0.29	-	-	0.29	-	-	0.41J+	-

DATA QUALIFIER DEFINITIONS

U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
J+ The analyte was positively identified; however, the associated numerical value is likely to be higher that the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.
J- The analyte was positively identified; however, the associated numerical value is likely to be lower that the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.
UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

TABLE 1
Request to Import/Reuse Fill or Soil - Windrows 1 to 3
Former Sperry Remington Site - North Portion
Elmira, New York

				Field_ID	W2, S2, B 71117	W2, S2, C 71117	W2, S3, A 71117	W2, S3, B 71117	W2, S3, C 71117	W2, S4, A 71117	W2, S4, B 71117	W2, S4, C 71117	W2, S5 A 71117	W2, S5 B 71117	W2, S5 C 71117	W3, S1 A 71117	W3, S1 B 71117	W3, S1, C 71117	W3, S2, A 71117	W3, S2, B 71117	W3, S2, C 71117	W3, S3, A 71117	W3, S3, B 71117	W3, S3, C 71117
				Sample Date	7/11/2017	7/11/2017	7/11/2017	7/11/2017	7/11/2017	7/11/2017	7/11/2017	7/11/2017	7/11/2017	7/11/2017	7/11/2017	7/11/2017	7/11/2017	7/11/2017	7/11/2017	7/11/2017	7/11/2017	7/11/2017	7/11/2017	7/11/2017
				NYSDEC DER10 App 5 Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010																			
Method_Name	**Analyte**	**Units**	**EQL**																					
PCBs	Arochlor 1016	mg/kg	0.0093		-	<0.0099U	-	-	<0.0097U	-	-	<0.0097U	-	-	<0.0094U	-	-	<0.0095U	-	-	<0.0095U	-	-	<0.0096U
	Arochlor 1221	mg/kg	0.0091		-	<0.0097U	-	-	<0.0095U	-	-	<0.0094U	-	-	<0.0092U	-	-	<0.0093U	-	-	<0.0093U	-	-	<0.0094U
	Arochlor 1232	mg/kg	0.0069		-	<0.0074U	-	-	<0.0073U	-	-	<0.0072U	-	-	<0.007U	-	-	<0.0071U	-	-	<0.0071U	-	-	<0.0072U
	Arochlor 1242	mg/kg	0.014		-	<0.015U	-	-	<0.015U	-	-	<0.014U	-	-	<0.014U	-	-	<0.014U	-	-	<0.014U	-	-	<0.014U
	Arochlor 1248	mg/kg	0.018		-	0.74J	-	-	0.69J	-	-	0.7J	-	-	0.7J	-	-	0.67J	-	-	0.65J	-	-	0.88J
	Arochlor 1254	mg/kg	0.018		-	0.52J	-	-	0.56J	-	-	0.48J	-	-	0.48J	-	-	0.47J	-	-	0.44J	-	-	0.59J
	Arochlor 1260	mg/kg	0.018		-	0.2J	-	-	0.16J	-	-	0.16J	-	-	0.17J	-	-	0.17J	-	-	0.15J	-	-	0.17J
	Arochlor 1268	mg/kg	0.0053		-	<0.0057U	-	-	<0.0056U	-	-	<0.0055U	-	-	<0.0054U	-	-	<0.0055U	-	-	<0.0055U	-	-	<0.0055U
	Arochlor 1262	mg/kg	0.013		-	<0.013U	-	-	<0.013U	-	-	<0.013U	-	-	<0.013U	-	-	<0.013U	-	-	<0.013U	-	-	<0.013U
	Total PCBs	mg/kg		1	-	1.46	-	-	1.41	-	-	1.34	-	-	1.35	-	-	1.31	-	-	1.24	-	-	1.64
SVOCs	1,4-Dioxane	mg/kg	0.027	13	-	<0.028U	-	-	<0.054U	-	-	<0.027U	-	-	<0.027U	-	-	<0.054U	-	-	<0.054U	-	-	<0.055U
	2-methylphenol	mg/kg	0.016	100	-	<0.016U	-	-	<0.032U	-	-	<0.016U	-	-	<0.016U	-	-	<0.032U	-	-	<0.032U	-	-	<0.032U
	4-methylphenol	mg/kg	0.016	100	-	<0.017U	-	-	<0.032U	-	-	<0.016U	-	-	0.019J	-	-	<0.032U	-	-	<0.032U	-	-	<0.032U
	Acenaphthene	mg/kg	0.013	100	-	<0.013U	-	-	<0.024U	-	-	0.014J	-	-	0.063	-	-	0.1	-	-	<0.024U	-	-	<0.025U
	Acenaphthylene	mg/kg	0.036	100	-	0.15	-	-	0.23	-	-	0.18	-	-	0.4	-	-	0.55	-	-	0.1	-	-	0.13
	Anthracene	mg/kg	0.036	100	-	0.19	-	-	0.27	-	-	0.21	-	-	1.5	-	-	2.3	-	-	0.12	-	-	0.15
	Benz(a)anthracene	mg/kg	0.036	1	-	0.51	-	-	0.71	-	-	0.68	-	-	2.3	-	-	2.2	-	-	0.53	-	-	0.64
	Benzo(a) pyrene	mg/kg	0.036	1	-	0.55	-	-	0.72	-	-	0.69	-	-	1.9	-	-	2	-	-	0.56	-	-	0.72
	Benzo(b)fluoranthene	mg/kg	0.036	1	-	0.63	-	-	0.99	-	-	0.8	-	-	2.2	-	-	2.2	-	-	0.77	-	-	0.84
	Benzo(g,h,i)perylene	mg/kg	0.036	100	-	0.68	-	-	0.86	-	-	0.84	-	-	1.9	-	-	2	-	-	0.54	-	-	0.73
	Benzo(k)fluoranthene	mg/kg	0.036	3.9	-	0.29	-	-	0.22	-	-	0.34	-	-	0.88	-	-	0.86	-	-	0.21	-	-	0.38
	Chrysene	mg/kg	0.036	3.9	-	0.47	-	-	0.73	-	-	0.67	-	-	2.1	-	-	2	-	-	0.51	-	-	0.56
	Dibenz(a,h)anthracene	mg/kg	0.036	0.33	-	0.16	-	-	0.18	-	-	0.19	-	-	0.41	-	-	0.38	-	-	0.12	-	-	0.19
	Dibenzofuran	mg/kg	0.029	59	-	0.049J	-	-	0.065J	-	-	0.057J	-	-	0.17J	-	-	0.27J	-	-	0.064J	-	-	0.07J
	Fluoranthene	mg/kg	0.036	100	-	0.84	-	-	1.2	-	-	1.1	-	-	5.7	-	-	5.5	-	-	0.73	-	-	0.92
	Fluorene	mg/kg	0.026	100	-	0.032J	-	-	0.037J	-	-	0.039	-	-	0.23	-	-	0.27	-	-	0.033J	-	-	0.042J
	Hexachlorobenzene	mg/kg	0.015	1.2	-	<0.015U	-	-	<0.029U	-	-	<0.015U	-	-	<0.015U	-	-	<0.029U	-	-	<0.029U	-	-	<0.029U
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.036	0.5	-	0.55	-	-	0.72	-	-	0.71	-	-	1.7	-	-	1.7	-	-	0.48	-	-	0.61
	Naphthalene	mg/kg	0.036	100	-	0.17	-	-	0.22	-	-	0.21	-	-	0.38	-	-	0.38	-	-	0.16	-	-	0.18
	Pentachlorophenol	mg/kg	0.34	6.7	-	<0.35U	-	-	<0.68U	-	-	<0.34U	-	-	<0.34U	-	-	<0.68U	-	-	<0.68U	-	-	<0.69U
	Phenanthrene	mg/kg	0.036	100	-	0.35	-	-	0.56	-	-	0.5	-	-	3.7	-	-	5	-	-	0.39	-	-	0.46
	Phenol	mg/kg	0.025	100	-	<0.025U	-	-	<0.048U	-	-	<0.025U	-	-	<0.025U	-	-	<0.048U	-	-	<0.049U	-	-	<0.049U
	Pyrene	mg/kg	0.036	100	-	0.72	-	-	1.1	-	-	0.97	-	-	3.8	-	-	3.7	-	-	0.88	-	-	1.1
VOCs	1,1,1-trichloroethane	mg/kg	0.002	100	<0.0021U	-	<0.004U	<0.0025U	-	<0.002U	<0.003U	-	<0.0054U	<0.002U	-	<0.0028U	<0.0037U	-	<0.0026U	<0.0025U	-	<0.003U	<0.0028U	-
	1,1-dichloroethane	mg/kg	0.0014	26	<0.0015U	-	<0.0029U	<0.0018U	-	<0.0015U	<0.0022U	-	<0.0039U	<0.0014U	-	<0.0021U	<0.0027U	-	<0.0019U	<0.0018U	-	<0.0022U	<0.002U	-
	1,1-dichloroethene	mg/kg	0.0023	100	<0.0023U	-	<0.0045U	<0.0029U	-	<0.0023U	<0.0034U	-	<0.0061U	<0.0023U	-	<0.0032U	<0.0042U	-	<0.003U	<0.0028U	-	<0.0034U	<0.0031U	-
	1,2,4-trimethylbenzene	mg/kg	0.0011	52	<0.0011U	-	<0.0021U	<0.0014U	-	<0.0011U	<0.0016U	-	<0.0029U	<0.0011U	-	<0.0015U	<0.002U	-	<0.0014U	<0.0013U	-	<0.0016U	<0.0015U	-
	1,2-dichlorobenzene	mg/kg	0.0032	100	<0.0033U	-	<0.0064U	<0.0041U	-	<0.0033U	<0.0048U	-	<0.0086U	<0.0032U	-	<0.0046U	<0.006U	-	<0.0042U	<0.004U	-	<0.0048U	<0.0044U	-
	1,2-dichloroethane	mg/kg	0.0012	3.1	<0.0012U	-	<0.0023U	<0.0015U	-	<0.0012U	<0.0017U	-	<0.0031U	<0.0012U	-	<0.0016U	<0.0022U	-	<0.0015U	<0.0014U	-	<0.0017U	<0.0016U	-
	1,3,5-trimethylbenzene	mg/kg	0.0014	52	<0.0014U	-	<0.0027U	<0.0017U	-	<0.0014U	<0.0021U	-	<0.0037U	<0.0014U	-	<0.002U	<0.0026U	-	<0.0018U	<0.0017U	-	<0.0021U	<0.0019U	-
	1,3-dichlorobenzene	mg/kg	0.0013	49	<0.0013U	-	<0.0025U	<0.0016U	-	<0.0013U	<0.0019U	-	<0.0034U	<0.0013U	-	<0.0018U	<0.0024U	-	<0.0017U	<0.0016U	-	<0.0019U	<0.0018U	-
	1,4-dichlorobenzene	mg/kg	0.00081	13	<0.00084U	-	<0.0016U	<0.001U	-	<0.00082U	<0.0012U	-	<0.0022U	<0.00081U	-	<0.0012U	<0.0015U	-	<0.0011U	<0.001U	-	<0.0012U	<0.0011U	-
	Methyl Ethyl Ketone	mg/kg	0.0023	100	<0.0024U	-	<0.0046U	<0.0029U	-	<0.0023U	<0.0035U	-	<0.0062U	<0.0023U	-	<0.0033U	<0.0043U	-	<0.003U	<0.0029U	-	<0.0035U	<0.0032U	-
	Acetone	mg/kg	0.0025	100	<0.0026U	-	<0.005U	<0.0032U	-	<0.0025U	<0.0038U	-	<0.0067U	<0.0025U	-	<0.0036U	<0.0047U	-	<0.0033U	<0.0031U	-	<0.0038U	<0.0035U	-
	Benzene	mg/kg	0.0016	4.8	<0.0016U	-	<0.0031U	<0.002U	-	<0.0016U	<0.0024U	-	<0.0042U	<0.0016U	-	<0.0022U	<0.0029U	-	<0.002U	<0.002U	-	<0.0024U	<0.0022U	-
	Carbon tetrachloride	mg/kg	0.0026	2.4	<0.0027U	-	<0.0052U	<0.0033U	-	<0.0027U	<0.004U	-	<0.0071U	<0.0026U	-	<0.0038U	<0.0049U	-	<0.0034U	<0.0033U	-	<0.004U	<0.0037U	-
	Chlorobenzene	mg/kg	0.0013	100	<0.0013U	-	<0.0025U	<0.0016U	-	<0.0013U	<0.0019U	-	<0.0034U	<0.0013U	-	<0.0018U	<0.0023U	-	<0.0016U	<0.0016U	-	<0.0019U	<0.0017U	-
	Chloroform	mg/kg	0.0017	49	<0.0017U	-	<0.0033U	<0.0021U	-	<0.0017U	<0.0025U	-	<0.0045U	<0.0017U	-	<0.0024U	<0.0031U	-	<0.0022U	<0.0021U	-	<0.0025U	<0.0023U	-
	cis-1,2-dichloroethene	mg/kg	0.0013	100	<0.0013U	-	<0.0025U	<0.0016U	-	<0.0013U	<0.0019U	-	<0.0034U	<0.0013U	-	<0.0018U	<0.0023U	-	<0.0016U	<0.0016U	-	<0.0019U	<0.0017U	-
	Dichloromethane	mg/kg	0.0019	100	<0.0019U	-	<0.0037U	<0.0024U	-	<0.0019U	<0.0028U	-	<0.005U	<0.0019U	-	<0.0027U	<0.0035U	-	<0.0024U	<0.0024U	-	<0.0028U	<0.0026U	-
	Ethylbenzene	mg/kg	0.0017	41	<0.0018U	-	<0.0034U	<0.0022U	-	<0.0017U	<0.0026U	-	<0.0046U	<0.0017U	-	<0.0024U	<0.0032U	-	<0.0022U	<0.0021U	-	<0.0026U	<0.0024U	-
	Methyl-tert-butyl ether	mg/kg	0.0029	100	<0.003U	-	<0.0058U	<0.0037U	-	<0.003U	<0.0044U	-	<0.0079U	<0.0029U	-	<0.0042U	<0.0055U	-	<0.0038U	<0.0037U	-	<0.0044U	<0.0041U	-
	n-butylbenzene	mg/kg	0.003	100	<0.0031U	-	<0.006U	<0.0038U	-	<0.0031U	<0.0045U	-	<0.0081U	<0.003U	-	<0.0043U	<0.0056U	-	<0.0039U	<0.0038U	-	<0.0045U	<0.0042U	-
	n-propylbenzene	mg/kg	0.0017	100	<0.0017U	-	<0.0033U	<0.0021U	-	<0.0017U	<0.0025U	-	<0.0045U	<0.0017U	-	<0.0024U	<0.0031U	-	<0.0022U	<0.0021U	-	<0.0025U	<0.0023U	-
	sec-butylbenzene	mg/kg	0.0019	100	<0.002U	-	<0.0039U	<0.0025U	-	<0.002U	<0.0029U	-	<0.0052U	<0.0019U	-	<0.0028U	<0.0036U	-	<0.0025U	<0.0024U	-	<0.0029U	<0.0027U	-
	Trichloroethene	mg/kg	0.0012	21	<0.0012U	-	<0.0024U	<0.0015U	-	<0.0012U	<0.0018U	-	<0.0032U	<0.0012U	-	<0.0017U	<0.0022U	-	<0.0016U	<0.0015U	-	<0.0018U	<0.0017U	-
	tert-butylbenzene	mg/kg	0.0015	100	<0.0015U	-	<0.0029U	<0.0018U	-	<0.0015U	<0.0022U	-	<0.0039U	<0.0015U	-	<0.0021U	<0.0027U	-	<0.0019U	<0.0018U	-	<0.0022U	<0.002U	-
	Tetrachloroethene	mg/kg	0.0016	19	<0.0016U	-	<0.0032U	<0.002U	-	<0.0016U	<0.0024U	-	<0.0043U	<0.0016U	-	<0.0023U	<0.003U	-	<0.0021U	<0.002U	-	<0.0024U	<0.0022U	-
	Toluene	mg/kg	0.0013	100	<0.0014U	-	<0.0027U	<0.0017U	-	<0.0014U	<0.002U	-	<0.0036U	<0.0013U	-	<0.0019U	<0.0025U	-	<0.0017U	<0.0017U	-	<0.002U	<0.0019U	-
	trans-1,2-dichloroethene	mg/kg	0.002	100	<0.0021U	-	<0.004U	<0.0026U	-	<0.002U	<0.003U	-	<0.0054U	<0.002U	-	<0.0029U	<0.0038U	-	<0.0026U	<0.0025U	-	<0.003U	<0.0028U	-
	Vinyl chloride	mg/kg	0.0029	0.9	<0.003U	-	<0.0058U	<0.0037U	-	<0.003U	<0.0044U	-	<0.0078U	<0.0029U	-	<0.0042U	<0.0055U	-	<0.0038U	<0.0037U	-	<0.0044U	<0.0041U	-
	Xylene Total	mg/kg	0.0034	100	<0.0035U	-	<0.0068U	<0.0043U	-	<0.0035U	<0.0052U	-	<0.0092U	<0.0034U	-	<0.0049U	<0.0064U	-	<0.0045U	<0.0043U	-	<0.0052U	<0.0048U	-
Inorganics	Cyanide Total	mg/kg	0.14	27	-	<0.17U	-	-	<0.16U	-	-	0.29J	-	-	<0.16U	-	-	<0.16U	-	-	0.18J	-	-	0.93
Metals	Arsenic	mg/kg	1	16	-	5.8	-	-	6.4	-	-	5.5J	-	-	5.4	-	-	6.9	-	-	6.8	-	-	5.6
	Barium	mg/kg	21	400	-	77	-	-	80	-	-	86	-	-	69	-	-	79	-	-	69	-	-	77
	Beryllium	mg/kg	0.41	72	-	0.31J	-	-	0.33J	-	-	0.32J	-	-	0.27J	-	-	0.3J	-	-	0.27J	-	-	0.27J
	Cadmium	mg/kg	0.51	4.3	-	0.16J	-	-	0.14J	-	-	0.16J	-	-	0.17J	-	-	0.22J	-	-	0.13J	-	-	0.17J
	Chromium (III+VI)	mg/kg	0.51	110	-	8.5	-	-	8.5	-	-	7.9	-	-	8.7	-	-	9.6	-	-	8.1	-	-	8.2
	Copper	mg/kg	2.6	270	-	28	-	-	86	-	-	32	-	-	34	-	-	58	-	-	35	-	-	38
	Lead	mg/kg	1	400	-	40	-	-	50	-	-	36	-	-	44	-	-	51	-	-	46	-	-	42
	Manganese	mg/kg	1.5	2000	-	320	-	-	340	-	-	360	-	-	270	-	-	400	-	-	320	-	-	340
	Nickel	mg/kg	4.1	310	-	15	-	-	19	-	-	14J	-	-	13	-	-	16	-	-	14	-	-	16
	Selenium	mg/kg	0.41	180	-	0.51J	-	-	<0.43U	-	-	0.84J	-	-	<0.41U	-	-	0.54J	-	-	<0.43U	-	-	0.9J
	Silver	mg/kg	0.17	180	-	<0.19U	-	-	<0.18U	-	-	<0.17U	-	-	<0.17U	-	-	<0.19U	-	-	<0.18U	-	-	<0.17U
	Zinc	mg/kg	2.1	10000	-	76	-	-	81	-	-	69	-	-	75	-	-	83	-	-	69	-	-	75
	Mercury	mg/kg	0.029	0.81	-	0.42	-	-	0.46	-	-	0.65	-	-	0.69	-	-	0.65	-	-	0.61	-	-	0.48

DATA QUALIFIER DEFINITIONS

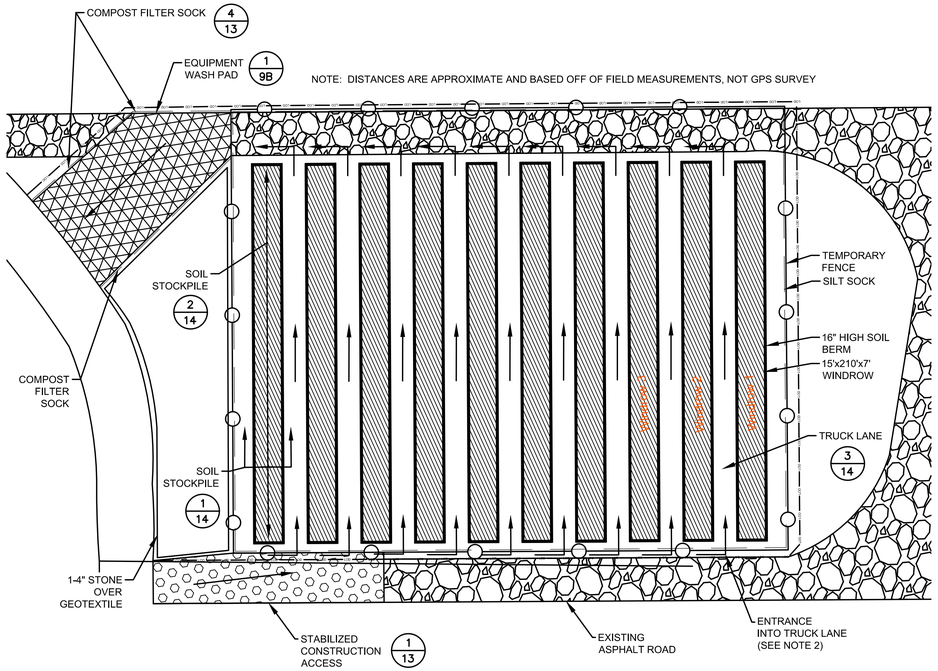
U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
J+ The analyte was positively identified; however, the associated numerical value is likely to be higher that the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.
J- The analyte was positively identified; however, the associated numerical value is likely to be lower that the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.
UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

TABLE 1
Request to Import/Reuse Fill or Soil - Windrows 1 to 3
Former Sperry Remington Site - North Portion
Elmira, New York

				Field_ID	W3, S4, A 71117	W3, S4, B 71117	W3, S4, C 71117	W3, S5, A 71117	W3, S5, B 71117	W3, S5, C 71117	WINDROW1, SEC 1, A
				Sample Date	7/11/2017	7/11/2017	7/11/2017	7/11/2017	7/11/2017	7/11/2017	7/10/2017
Method_Name	Analyte	Units	EQL	NYSDEC DER10 App 5 Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010							
PCBs	Arochlor 1016	mg/kg	0.0093		-	-	<0.0096U	-	-	<0.0093U	-
	Arochlor 1221	mg/kg	0.0091		-	-	<0.0094U	-	-	<0.0091U	-
	Arochlor 1232	mg/kg	0.0069		-	-	<0.0072U	-	-	<0.0069U	-
	Arochlor 1242	mg/kg	0.014		-	-	<0.014U	-	-	<0.014U	-
	Arochlor 1248	mg/kg	0.018		-	-	0.93J	-	-	0.93J	-
	Arochlor 1254	mg/kg	0.018		-	-	0.61J	-	-	0.61J	-
	Arochlor 1260	mg/kg	0.018		-	-	0.19J	-	-	0.18J	-
	Arochlor 1268	mg/kg	0.0053		-	-	<0.0055U	-	-	<0.0053U	-
	Arochlor 1262	mg/kg	0.013		-	-	<0.013U	-	-	<0.013U	-
	Total PCBs	mg/kg		1	-	-	1.73	-	-	1.72	-
SVOCs	1,4-Dioxane	mg/kg	0.027	13	-	-	<0.056U	-	-	<0.054U	-
	2-methylphenol	mg/kg	0.016	100	-	-	<0.033U	-	-	<0.032U	-
	4-methylphenol	mg/kg	0.016	100	-	-	<0.033U	-	-	<0.032U	-
	Acenaphthene	mg/kg	0.013	100	-	-	<0.025U	-	-	<0.024U	-
	Acenaphthylene	mg/kg	0.036	100	-	-	0.15	-	-	0.19	-
	Anthracene	mg/kg	0.036	100	-	-	0.19	-	-	0.26	-
	Benz(a)anthracene	mg/kg	0.036	1	-	-	0.74	-	-	0.96	-
	Benzo(a) pyrene	mg/kg	0.036	1	-	-	0.73	-	-	0.9	-
	Benzo(b)fluoranthene	mg/kg	0.036	1	-	-	0.96	-	-	1.1	-
	Benzo(g,h,i)perylene	mg/kg	0.036	100	-	-	0.75	-	-	0.97	-
	Benzo(k)fluoranthene	mg/kg	0.036	3.9	-	-	0.31	-	-	0.47	-
	Chrysene	mg/kg	0.036	3.9	-	-	0.7	-	-	0.88	-
	Dibenz(a,h)anthracene	mg/kg	0.036	0.33	-	-	0.14	-	-	0.24	-
	Dibenzofuran	mg/kg	0.029	59	-	-	0.068J	-	-	0.072J	-
	Fluoranthene	mg/kg	0.036	100	-	-	1	-	-	1.4	-
	Fluorene	mg/kg	0.026	100	-	-	0.041J	-	-	0.042J	-
	Hexachlorobenzene	mg/kg	0.015	1.2	-	-	<0.03U	-	-	<0.029U	-
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.036	0.5	-	-	0.66	-	-	0.86	-
	Naphthalene	mg/kg	0.036	100	-	-	0.23	-	-	0.23	-
	Pentachlorophenol	mg/kg	0.34	6.7	-	-	<0.7U	-	-	<0.68U	-
	Phenanthrene	mg/kg	0.036	100	-	-	0.57	-	-	0.82	-
	Phenol	mg/kg	0.025	100	-	-	<0.05U	-	-	<0.049U	-
	Pyrene	mg/kg	0.036	100	-	-	1.2	-	-	1.5	-
VOCs	1,1,1-trichloroethane	mg/kg	0.002	100	<0.0026U	<0.0022U	-	<0.0026U	<0.0031U	-	<0.0028U
	1,1-dichloroethane	mg/kg	0.0014	26	<0.0019U	<0.0016U	-	<0.0019U	<0.0022U	-	<0.002U
	1,1-dichloroethene	mg/kg	0.0023	100	<0.0029U	<0.0025U	-	<0.0029U	<0.0035U	-	<0.0032U
	1,2,4-trimethylbenzene	mg/kg	0.0011	52	<0.0014U	<0.0012U	-	<0.0014U	<0.0017U	-	<0.0015U
	1,2-dichlorobenzene	mg/kg	0.0032	100	<0.0041U	<0.0035U	-	<0.0041U	<0.0049U	-	<0.0045U
	1,2-dichloroethane	mg/kg	0.0012	3.1	<0.0015U	<0.0013U	-	<0.0015U	<0.0018U	-	<0.0016U
	1,3,5-trimethylbenzene	mg/kg	0.0014	52	<0.0018U	<0.0015U	-	<0.0018U	<0.0021U	-	<0.0019U
	1,3-dichlorobenzene	mg/kg	0.0013	49	<0.0016U	<0.0014U	-	<0.0016U	<0.002U	-	<0.0018U
	1,4-dichlorobenzene	mg/kg	0.00081	13	<0.001U	<0.0009U	-	<0.0011U	<0.0013U	-	<0.0012U
	Methyl Ethyl Ketone	mg/kg	0.0023	100	<0.003U	<0.0026U	-	<0.003U	<0.0036U	-	<0.0033U
	Acetone	mg/kg	0.0025	100	<0.0032U	<0.0028U	-	<0.0032U	<0.0039U	-	<0.0036U
	Benzene	mg/kg	0.0016	4.8	<0.002U	<0.0017U	-	<0.002U	<0.0024U	-	<0.0022U
	Carbon tetrachloride	mg/kg	0.0026	2.4	<0.0034U	<0.0029U	-	<0.0034U	<0.0041U	-	<0.0037U
	Chlorobenzene	mg/kg	0.0013	100	<0.0016U	<0.0014U	-	<0.0016U	<0.0019U	-	<0.0018U
	Chloroform	mg/kg	0.0017	49	<0.0022U	<0.0019U	-	<0.0022U	<0.0026U	-	<0.0024U
	cis-1,2-dichloroethene	mg/kg	0.0013	100	<0.0016U	<0.0014U	-	<0.0016U	<0.0019U	-	<0.0018U
	Dichloromethane	mg/kg	0.0019	100	<0.0024U	<0.0021U	-	<0.0024U	<0.0029U	-	<0.0027U
	Ethylbenzene	mg/kg	0.0017	41	<0.0022U	<0.0019U	-	<0.0022U	<0.0026U	-	<0.0024U
	Methyl-tert-butyl ether	mg/kg	0.0029	100	<0.0038U	<0.0032U	-	<0.0038U	<0.0045U	-	<0.0042U
	n-butylbenzene	mg/kg	0.003	100	<0.0039U	<0.0033U	-	<0.0039U	<0.0047U	-	<0.0043U
	n-propylbenzene	mg/kg	0.0017	100	<0.0022U	<0.0019U	-	<0.0022U	<0.0026U	-	<0.0024U
	sec-butylbenzene	mg/kg	0.0019	100	<0.0025U	<0.0021U	-	<0.0025U	<0.003U	-	<0.0028U
	Trichloroethene	mg/kg	0.0012	21	<0.0015U	<0.0013U	-	<0.0015U	<0.0018U	-	<0.0017U
	tert-butylbenzene	mg/kg	0.0015	100	<0.0019U	<0.0016U	-	<0.0019U	<0.0022U	-	<0.0021U
	Tetrachloroethene	mg/kg	0.0016	19	<0.0021U	<0.0018U	-	<0.0021U	<0.0025U	-	<0.0023U
	Toluene	mg/kg	0.0013	100	<0.0017U	<0.0015U	-	<0.0017U	<0.0021U	-	<0.0019U
	trans-1,2-dichloroethene	mg/kg	0.002	100	<0.0026U	<0.0022U	-	<0.0026U	<0.0031U	-	<0.0029U
	Vinyl chloride	mg/kg	0.0029	0.9	<0.0038U	<0.0032U	-	<0.0038U	<0.0045U	-	<0.0041U
	Xylene Total	mg/kg	0.0034	100	<0.0044U	<0.0038U	-	<0.0044U	<0.0053U	-	<0.0049U
Inorganics	Cyanide Total	mg/kg	0.14	27	-	-	<0.17U	-	-	<0.17U	-
Metals	Arsenic	mg/kg	1	16	-	-	5.8	-	-	6.2	-
	Barium	mg/kg	21	400	-	-	79	-	-	87	-
	Beryllium	mg/kg	0.41	72	-	-	0.27J	-	-	0.29J	-
	Cadmium	mg/kg	0.51	4.3	-	-	0.14J	-	-	0.19J	-
	Chromium (III+VI)	mg/kg	0.51	110	-	-	8.2	-	-	7.8	-
	Copper	mg/kg	2.6	270	-	-	37	-	-	30	-
	Lead	mg/kg	1	400	-	-	53	-	-	46	-
	Manganese	mg/kg	1.5	2000	-	-	400	-	-	290	-
	Nickel	mg/kg	4.1	310	-	-	15	-	-	16	-
	Selenium	mg/kg	0.41	180	-	-	<0.43U	-	-	<0.42U	-
	Silver	mg/kg	0.17	180	-	-	<0.18U	-	-	<0.17U	-
	Zinc	mg/kg	2.1	10000	-	-	78	-	-	76	-
	Mercury	mg/kg	0.029	0.81	-	-	0.77	-	-	0.49	-

DATA QUALIFIER DEFINITIONS

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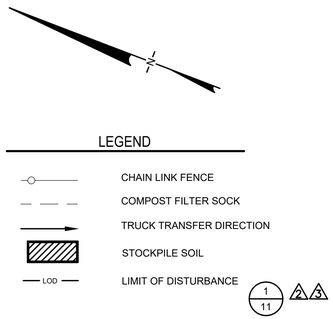
1/14 PLAN
STOCKPILE AREA
NTS

UNLOADING SEQUENCE:

1. TRUCK ENTERS TEMPORARY ENTRANCE INTO MSA.
2. TRUCK PULLS UP TO END OF ACTIVE WINDROW.
3. TRUCK BACKS ONTO ACTIVE WINDROW.
4. TRUCK UNLOADS AT END OF ACTIVE WINDROW.
5. TRUCK PULLS FORWARD INTO TRUCK LANE.
6. TRUCK EXITS ONTO ASPHALT ROAD
7. TRUCK ENTERS EQUIPMENT WASH PAD FOR WET DECON.
8. TRUCK EXITS EQUIPMENT WASH PAD AND RETURNS TO EXCAVATION AREA.

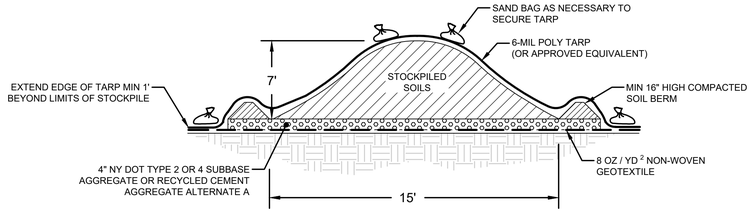
LOADING SEQUENCE:

1. TRUCK ENTERS TEMPORARY ENTRANCE INTO MSA.
2. TRUCK PULLS UP TO ACTIVE WINDROW TO BE LOADED, STAYING IN TRUCK LANE.
3. TRUCK IS LOADED BY EXCAVATOR.
4. TRUCK EXITS ONTO ASPHALT ROAD.
5. TRUCK ENTERS EQUIPMENT WASH PAD FOR WET DECON.
6. TRUCK EXITS EQUIPMENT WASH PAD AND RETURNS TO EXCAVATION AREA.

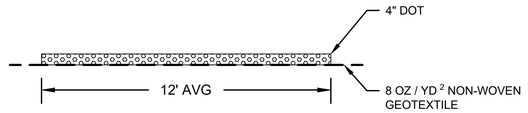


NOTES:

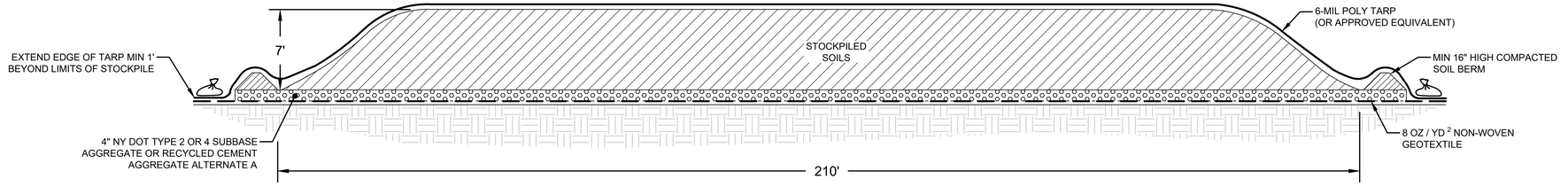
1. CONTRACTOR SHALL UTILIZE EARTH DIKE, COMPOST FILTER SOCK, AND DEWATERING SUMP PIT. 6
2. CONTRACTOR SHALL INSTALL TEMPORARY 6' TALL CHAIN LINK FENCING PARALLEL TO THE LIMITS OF CONSTRUCTION DISTURBANCE. FENCING SHALL INCLUDE VISUAL SCREENING.
3. SECTION(S) OF TEMPORARY FENCE WILL BE REMOVED TO CREATE AN ENTRANCE TO THE MSA AT THE BEGINNING OF EACH DAY OF UNLOADING OR LOADING OPERATIONS. SECTION LOCATION(S) MAY VARY. REMOVED SECTIONS SHALL BE RESTORED AND SECURED AT THE END OF EACH DAY OF MSA OPERATIONS.
4. STOCKPILING OF SOILS FOR POTENTIAL RE-USE SHALL BEGIN AT THE SOUTH END OF THE MSA.
5. STOCKPILING OF SOILS FOR POTENTIAL OFF-SITE TRANSPORT AND DISPOSAL AS NON-HAZARDOUS WASTE WILL BEGIN AT THE NORTH END OF THE MSA.
6. WINDROW LAYOUT ALLOWS FOR STOCKPILING OF APPROX. 4000 CUBIC YARDS (CY) OF SOIL. IF GREATER VOLUME IS REQUIRED, CONTRACTOR MAY REQUEST STOCKPILING OF SOILS WITH LIKE ANALYTICAL RESULTS APPROVED FOR RE-USE OR OFF-SITE DISPOSAL.
7. APPROX. 30 LINEAR FEET OF WINDROW IS EQUIVALENT TO 100 CY.
8. ALL TRUCKS WILL BE WET DECONNED BEFORE LEAVING THE MSA.



1/- DETAIL
SOIL STOCKPILE (SIDE VIEW)



3/- DETAIL
TRUCK LANE



2/- DETAIL
SOIL STOCKPILE (FRONT VIEW)

0 40' 80'
SCALE IN FEET

REV	DATE	DESCRIPTION	DRN	APP
6	7-11-17	ADDRESS NYSDEC COMMENTS	BGF	WMS/AK
5	6-30-17	ADDRESS NYSDEC COMMENTS	BGF	WMS/AK
4	6-13-17	ADDRESS NYSDEC COMMENTS	TSJ	WMS/AK
3	5-31-17	REVISE EXCAVATION AREAS AND SOIL STOCKPILE LOCATION	TSJ	WMS/AK
2	5-12-17	ADDRESS NYSDEC COMMENTS	BGF	WMS/AK
1	4-26-17	ADDRESS NYSDEC COMMENTS	BGF	WMS/AK
0	4-5-17	95% DESIGN - ISSUED FOR BID	TSJ	WMS/AK

Beech and Bonaparte engineering p.c.
an affiliate of Geosyntec Consultants

UNISYS

TITLE: MATERIAL STAGING AREA (MSA) PLAN

PROJECT: INTERIM REMEDIAL MEASURE

SITE: ELMIRA HIGH SCHOOL
ELMIRA, NEW YORK

SIGNATURE
7/11/2017
DATE

ANNA A. KRASNOPOLSKY 089954-1 STATE OF NEW YORK LICENSED PROFESSIONAL ENGINEER

DESIGN BY:		DATE:	MAY 2017
DRAWN BY:	TSJ	PROJECT NO.:	MN0832
CHECKED BY:	AK	FILE:	Stockpile Detail
REVIEWED BY:	PLB	DRAWING NO.:	14
APPROVED BY:	AK	OF	14

P:\Jobs\pw-minneapolis\0832 elmira\0832-400\0832-414.dwg, Stockpile Area, 7/11/2017 2:39:05 PM, bfenick

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

TestAmerica Job ID: 180-68037-1
Client Project/Site: Former Sperry Remington Site - North IRM

For:
Geosyntec Consultants, Inc.
10211 Wincopin Circle
4'th Floor
Columbia, Maryland 21044

Attn: Mr. Aron Krasnopoler

Veronica Bortot

Authorized for release by:
7/17/2017 8:40:57 AM
Veronica Bortot, Senior Project Manager
(412)963-2435
veronica.bortot@testamericainc.com

Designee for

David Dunlap, Senior Project Manager
(412)963-2432
david.dunlap@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Job ID: 180-68037-1

Laboratory: TestAmerica Pittsburgh

Narrative

Job Narrative
180-68037-1

Comments
No additional comments.

Receipt
The samples were received on 7/11/2017 8:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 1.9º C, 2.0º C and 2.3º C.

GC/MS VOA
Method(s) 8260C: The continuing calibration verification (CCV) analyzed in 180-216640 was outside the method criteria for the following analyte(s): Vinyl Chloride recovered high. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method(s) 8270D LL: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 180-216675 and analytical batch 180-216666 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) 8270D LL: The following samples was diluted due to the nature of the sample matrix (extract viscous, dark in color): DUP2 (180-68037-1), WINDROW1, SEC 3, C (180-68037-2), WINDROW1, SEC 4, C (180-68037-4), WINDROW1, SEC 2, C (180-68037-8), WINDROW1, SEC 1, C (180-68037-11), (180-68037-A-1-B MS) and (180-68037-A-1-C MSD). This was the lowest dilution possible on these samples. Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals
Method(s) 6010C: The post digestion spike % recovery for manganese associated with prep batch 216814 was outside of the control limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

General Chemistry

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc. TestAmerica Job ID: 180-68037-1
Project/Site: Former Sperry Remington Site - North IRM

Laboratory: TestAmerica Pittsburgh

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	11182	03-31-18

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
2540G		Solid	Percent Moisture
2540G		Solid	Percent Solids
8270D LL	3541	Solid	1,4-Dioxane

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68037-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-68037-1	DUP2	Solid	07/10/17 00:00	07/11/17 08:30
180-68037-2	WINDROW1, SEC 3, C	Solid	07/10/17 16:15	07/11/17 08:30
180-68037-3	WINDROW1, SEC 3, B	Solid	07/10/17 16:05	07/11/17 08:30
180-68037-4	WINDROW1, SEC 4, C	Solid	07/10/17 16:40	07/11/17 08:30
180-68037-5	DUP1	Solid	07/10/17 00:00	07/11/17 08:30
180-68037-6	WINDROW1, SEC 3, A	Solid	07/10/17 16:00	07/11/17 08:30
180-68037-7	WINDROW1, SEC 4, B	Solid	07/10/17 16:35	07/11/17 08:30
180-68037-8	WINDROW1, SEC 2, C	Solid	07/10/17 14:55	07/11/17 08:30
180-68037-9	WINDROW1, SEC 2, A	Solid	07/10/17 14:45	07/11/17 08:30
180-68037-10	WINDROW1, SEC 1, A	Solid	07/10/17 14:20	07/11/17 08:30
180-68037-11	WINDROW1, SEC 1, C	Solid	07/10/17 14:30	07/11/17 08:30
180-68037-12	WINDROW1, SEC 4, A	Solid	07/10/17 16:30	07/11/17 08:30
180-68037-13	WINDROW1, SEC 2, B	Solid	07/10/17 14:50	07/11/17 08:30
180-68037-14	WINDROW1, SEC 1, B	Solid	07/10/17 14:25	07/11/17 08:30

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68037-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL PIT
8270D LL	Semivolatile Organic Compounds by GC/MS - Low Level	SW846	TAL PIT
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL PIT
6010C	Metals (ICP)	SW846	TAL PIT
7471B	Mercury (CVAA)	SW846	TAL PIT
2540G	SM 2540G	SM22	TAL PIT
9014	Cyanide	SW846	TAL PIT

Protocol References:

SM22 = SM22

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68037-1

Client Sample ID: DUP2
Date Collected: 07/10/17 00:00
Date Received: 07/11/17 08:30

Lab Sample ID: 180-68037-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216820	07/12/17 12:23	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: DUP2
Date Collected: 07/10/17 00:00
Date Received: 07/11/17 08:30

Lab Sample ID: 180-68037-1
Matrix: Solid
Percent Solids: 88.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	0.5 mL	216675	07/11/17 10:03	MAL	TAL PIT
Total/NA	Analysis	8270D LL		10	1 mL	1 mL	216666	07/11/17 20:02	VVP	TAL PIT
	Instrument ID: CH733									
Total/NA	Prep	3541			15.2 g	20.0 mL	216674	07/11/17 09:57	MAL	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	216716	07/11/17 14:25	CMR	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	216717	07/11/17 14:27	CMR	TAL PIT
Total/NA	Analysis	8082A		1			216665	07/11/17 23:40	JMO	TAL PIT
	Instrument ID: CHGC8									
Total/NA	Prep	3050B			0.99 g	100 mL	216814	07/12/17 11:52	CRM	TAL PIT
Total/NA	Analysis	6010C		1			217031	07/13/17 14:20	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.59 g	100 mL	216844	07/12/17 14:26	RJR	TAL PIT
Total/NA	Analysis	7471B		1			216948	07/13/17 09:21	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.13 g	50 mL	216711	07/11/17 13:12	JAS	TAL PIT
Total/NA	Analysis	9014		1			216832	07/11/17 17:52	JAS	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: WINDROW1, SEC 3, C
Date Collected: 07/10/17 16:15
Date Received: 07/11/17 08:30

Lab Sample ID: 180-68037-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216820	07/12/17 12:23	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: WINDROW1, SEC 3, C
Date Collected: 07/10/17 16:15
Date Received: 07/11/17 08:30

Lab Sample ID: 180-68037-2
Matrix: Solid
Percent Solids: 88.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	0.5 mL	216675	07/11/17 10:03	MAL	TAL PIT
Total/NA	Analysis	8270D LL		10	1 mL	1 mL	216666	07/11/17 21:22	VVP	TAL PIT
	Instrument ID: CH733									
Total/NA	Prep	3541			15.3 g	20.0 mL	216674	07/11/17 09:57	MAL	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	216716	07/11/17 14:25	CMR	TAL PIT

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68037-1

Client Sample ID: WINDROW1, SEC 3, C

Lab Sample ID: 180-68037-2
Date Collected: 07/10/17 16:15
Matrix: Solid
Date Received: 07/11/17 08:30
Percent Solids: 88.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Cleanup	3660B			2 mL	2 mL	216717	07/11/17 14:27	CMR	TAL PIT
Total/NA	Analysis	8082A		1			216665	07/12/17 00:01	JMO	TAL PIT
	Instrument ID: CHGC8									
Total/NA	Prep	3050B			0.99 g	100 mL	216814	07/12/17 11:52	CRM	TAL PIT
Total/NA	Analysis	6010C		1			217031	07/13/17 14:40	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.68 g	100 mL	216844	07/12/17 14:26	RJR	TAL PIT
Total/NA	Analysis	7471B		1			216948	07/13/17 09:27	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.15 g	50 mL	216711	07/11/17 13:12	JAS	TAL PIT
Total/NA	Analysis	9014		1			216832	07/11/17 17:54	JAS	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: WINDROW1, SEC 3, B

Lab Sample ID: 180-68037-3
Date Collected: 07/10/17 16:05
Matrix: Solid
Date Received: 07/11/17 08:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216820	07/12/17 12:23	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: WINDROW1, SEC 3, B

Lab Sample ID: 180-68037-3
Date Collected: 07/10/17 16:05
Matrix: Solid
Date Received: 07/11/17 08:30
Percent Solids: 90.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.4189 g	5 mL	216673	07/11/17 09:23	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	216640	07/11/17 10:49	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: WINDROW1, SEC 4, C

Lab Sample ID: 180-68037-4
Date Collected: 07/10/17 16:40
Matrix: Solid
Date Received: 07/11/17 08:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216820	07/12/17 12:23	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: WINDROW1, SEC 4, C

Lab Sample ID: 180-68037-4
Date Collected: 07/10/17 16:40
Matrix: Solid
Date Received: 07/11/17 08:30
Percent Solids: 89.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	0.5 mL	216675	07/11/17 10:03	MAL	TAL PIT
Total/NA	Analysis	8270D LL		10	1 mL	1 mL	216666	07/11/17 21:48	VVP	TAL PIT
	Instrument ID: CH733									
Total/NA	Prep	3541			15.0 g	20.0 mL	216674	07/11/17 09:57	MAL	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	216716	07/11/17 14:25	CMR	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	216717	07/11/17 14:27	CMR	TAL PIT
Total/NA	Analysis	8082A		1			216665	07/12/17 00:21	JMO	TAL PIT
	Instrument ID: CHGC8									
Total/NA	Prep	3050B			0.91 g	100 mL	216814	07/12/17 11:52	CRM	TAL PIT
Total/NA	Analysis	6010C		1			217031	07/13/17 14:45	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.67 g	100 mL	216844	07/12/17 14:26	RJR	TAL PIT
Total/NA	Analysis	7471B		1			216948	07/13/17 09:29	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.12 g	50 mL	216711	07/11/17 13:12	JAS	TAL PIT
Total/NA	Analysis	9014		1			216832	07/11/17 17:59	JAS	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: DUP1

Lab Sample ID: 180-68037-5
Date Collected: 07/10/17 00:00
Matrix: Solid
Date Received: 07/11/17 08:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216820	07/12/17 12:23	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: DUP1

Lab Sample ID: 180-68037-5
Date Collected: 07/10/17 00:00
Matrix: Solid
Date Received: 07/11/17 08:30
Percent Solids: 88.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.6139 g	5 mL	216673	07/11/17 09:23	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	216640	07/11/17 11:11	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: WINDROW1, SEC 3, A

Lab Sample ID: 180-68037-6
Date Collected: 07/10/17 16:00
Matrix: Solid
Date Received: 07/11/17 08:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216820	07/12/17 12:23	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68037-1

Client Sample ID: WINDROW1, SEC 3, A
Date Collected: 07/10/17 16:00
Date Received: 07/11/17 08:30

Lab Sample ID: 180-68037-6
Matrix: Solid
Percent Solids: 91.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.3575 g	5 mL	216673	07/11/17 09:23	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	216640	07/11/17 11:34	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: WINDROW1, SEC 4, B
Date Collected: 07/10/17 16:35
Date Received: 07/11/17 08:30

Lab Sample ID: 180-68037-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216820	07/12/17 12:23	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: WINDROW1, SEC 4, B
Date Collected: 07/10/17 16:35
Date Received: 07/11/17 08:30

Lab Sample ID: 180-68037-7
Matrix: Solid
Percent Solids: 88.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.7699 g	5 mL	216673	07/11/17 09:23	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	216640	07/11/17 11:56	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: WINDROW1, SEC 2, C
Date Collected: 07/10/17 14:55
Date Received: 07/11/17 08:30

Lab Sample ID: 180-68037-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216820	07/12/17 12:23	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: WINDROW1, SEC 2, C
Date Collected: 07/10/17 14:55
Date Received: 07/11/17 08:30

Lab Sample ID: 180-68037-8
Matrix: Solid
Percent Solids: 89.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	0.5 mL	216675	07/11/17 10:03	MAL	TAL PIT
Total/NA	Analysis	8270D LL		10	1 mL	1 mL	216666	07/11/17 22:15	VVP	TAL PIT
	Instrument ID: CH733									
Total/NA	Prep	3541			15.2 g	20.0 mL	216674	07/11/17 09:59	MAL	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	216716	07/11/17 14:25	CMR	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	216717	07/11/17 14:27	CMR	TAL PIT
Total/NA	Analysis	8082A		1			216665	07/12/17 00:41	JMO	TAL PIT
	Instrument ID: CHGC8									
Total/NA	Prep	3050B			0.96 g	100 mL	216814	07/12/17 11:52	CRM	TAL PIT

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68037-1

Client Sample ID: WINDROW1, SEC 2, C
Date Collected: 07/10/17 14:55
Date Received: 07/11/17 08:30

Lab Sample ID: 180-68037-8
Matrix: Solid
Percent Solids: 89.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	6010C		1			217031	07/13/17 14:50	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.66 g	100 mL	216844	07/12/17 14:26	RJR	TAL PIT
Total/NA	Analysis	7471B		1			216948	07/13/17 09:31	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.06 g	50 mL	216711	07/11/17 13:12	JAS	TAL PIT
Total/NA	Analysis	9014		1			216832	07/11/17 18:01	JAS	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: WINDROW1, SEC 2, A
Date Collected: 07/10/17 14:45
Date Received: 07/11/17 08:30

Lab Sample ID: 180-68037-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216820	07/12/17 12:23	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: WINDROW1, SEC 2, A
Date Collected: 07/10/17 14:45
Date Received: 07/11/17 08:30

Lab Sample ID: 180-68037-9
Matrix: Solid
Percent Solids: 87.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.9784 g	5 mL	216673	07/11/17 09:23	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	216640	07/11/17 12:19	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: WINDROW1, SEC 1, A
Date Collected: 07/10/17 14:20
Date Received: 07/11/17 08:30

Lab Sample ID: 180-68037-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216682	07/11/17 11:08	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: WINDROW1, SEC 1, A
Date Collected: 07/10/17 14:20
Date Received: 07/11/17 08:30

Lab Sample ID: 180-68037-10
Matrix: Solid
Percent Solids: 93.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.7367 g	5 mL	216673	07/11/17 09:23	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	216640	07/11/17 12:41	KLG	TAL PIT
	Instrument ID: CHHP3									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68037-1

Client Sample ID: WINDROW1, SEC 1, C
Lab Sample ID: 180-68037-11
Date Collected: 07/10/17 14:30
Matrix: Solid
Date Received: 07/11/17 08:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216682	07/11/17 11:08	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: WINDROW1, SEC 1, C
Lab Sample ID: 180-68037-11
Date Collected: 07/10/17 14:30
Matrix: Solid
Date Received: 07/11/17 08:30
Percent Solids: 90.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	0.5 mL	216675	07/11/17 10:03	MAL	TAL PIT
Total/NA	Analysis	8270D LL		10	1 mL	1 mL	216666	07/11/17 22:41	VVP	TAL PIT
	Instrument ID: CH733									
Total/NA	Prep	3541			15.0 g	20.0 mL	216674	07/11/17 09:59	MAL	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	216716	07/11/17 14:25	CMR	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	216717	07/11/17 14:27	CMR	TAL PIT
Total/NA	Analysis	8082A		1			216665	07/12/17 01:01	JMO	TAL PIT
	Instrument ID: CHGC8									
Total/NA	Prep	3050B			1.00 g	100 mL	216814	07/12/17 11:52	CRM	TAL PIT
Total/NA	Analysis	6010C		1			217031	07/13/17 14:56	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.59 g	100 mL	216844	07/12/17 14:26	RJR	TAL PIT
Total/NA	Analysis	7471B		1			216948	07/13/17 09:33	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.18 g	50 mL	216711	07/11/17 13:12	JAS	TAL PIT
Total/NA	Analysis	9014		1			216832	07/11/17 18:03	JAS	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: WINDROW1, SEC 4, A
Lab Sample ID: 180-68037-12
Date Collected: 07/10/17 16:30
Matrix: Solid
Date Received: 07/11/17 08:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216682	07/11/17 11:08	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: WINDROW1, SEC 4, A
Lab Sample ID: 180-68037-12
Date Collected: 07/10/17 16:30
Matrix: Solid
Date Received: 07/11/17 08:30
Percent Solids: 86.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.6509 g	5 mL	216673	07/11/17 09:23	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	216640	07/11/17 13:04	KLG	TAL PIT
	Instrument ID: CHHP3									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68037-1

Client Sample ID: WINDROW1, SEC 2, B
Date Collected: 07/10/17 14:50
Date Received: 07/11/17 08:30

Lab Sample ID: 180-68037-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216682	07/11/17 11:08	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: WINDROW1, SEC 2, B
Date Collected: 07/10/17 14:50
Date Received: 07/11/17 08:30

Lab Sample ID: 180-68037-13
Matrix: Solid
Percent Solids: 88.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.5057 g	5 mL	216673	07/11/17 09:23	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	216640	07/11/17 13:26	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: WINDROW1, SEC 1, B
Date Collected: 07/10/17 14:25
Date Received: 07/11/17 08:30

Lab Sample ID: 180-68037-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216682	07/11/17 11:08	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: WINDROW1, SEC 1, B
Date Collected: 07/10/17 14:25
Date Received: 07/11/17 08:30

Lab Sample ID: 180-68037-14
Matrix: Solid
Percent Solids: 91.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.6307 g	5 mL	216673	07/11/17 09:23	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	216640	07/11/17 13:49	KLG	TAL PIT
	Instrument ID: CHHP3									

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Analyst References:

Lab: TAL PIT

Batch Type: Cleanup

CMR = Carl Reagle

Batch Type: Prep

CRM = Caitlin McEvoy

JAS = Joshua Schmidt

KLG = Kathy Gordon

MAL = Michael Lonzo

RJR = Ron Rosenbaum

Batch Type: Analysis

JAS = Joshua Schmidt

JMO = John Oravec

JTL = Justin Landry

KLG = Kathy Gordon

RJG = Rob Good

RJR = Ron Rosenbaum

VVP = Vincent Piccolino

Client Sample ID: DUP2
Date Collected: 07/10/17 00:00
Date Received: 07/11/17 08:30

Lab Sample ID: 180-68037-1
Matrix: Solid
Percent Solids: 88.5

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.076	0.025	mg/Kg	☼	07/11/17 10:03	07/11/17 20:02	10
Acenaphthylene	**0.46**		0.076	0.026	mg/Kg	☼	07/11/17 10:03	07/11/17 20:02	10
Anthracene	**0.22**	**F1**	0.076	0.028	mg/Kg	☼	07/11/17 10:03	07/11/17 20:02	10
Benzo[a]anthracene	**0.53**		0.076	0.030	mg/Kg	☼	07/11/17 10:03	07/11/17 20:02	10
Benzo[a]pyrene	**0.66**		0.076	0.031	mg/Kg	☼	07/11/17 10:03	07/11/17 20:02	10
Benzo[b]fluoranthene	**0.67**		0.076	0.033	mg/Kg	☼	07/11/17 10:03	07/11/17 20:02	10
Benzo[g,h,i]perylene	**0.55**		0.076	0.033	mg/Kg	☼	07/11/17 10:03	07/11/17 20:02	10
Benzo[k]fluoranthene	**0.23**	**F1**	0.076	0.026	mg/Kg	☼	07/11/17 10:03	07/11/17 20:02	10
Chrysene	**0.60**		0.076	0.029	mg/Kg	☼	07/11/17 10:03	07/11/17 20:02	10
Dibenz(a,h)anthracene	**0.13**		0.076	0.031	mg/Kg	☼	07/11/17 10:03	07/11/17 20:02	10
Dibenzofuran	ND	F1	0.37	0.030	mg/Kg	☼	07/11/17 10:03	07/11/17 20:02	10
1,4-Dioxane	ND		0.75	0.057	mg/Kg	☼	07/11/17 10:03	07/11/17 20:02	10
Fluoranthene	**0.45**	**F1**	0.076	0.030	mg/Kg	☼	07/11/17 10:03	07/11/17 20:02	10
Fluorene	**0.055**	**J**	0.076	0.027	mg/Kg	☼	07/11/17 10:03	07/11/17 20:02	10
Hexachlorobenzene	ND		0.076	0.030	mg/Kg	☼	07/11/17 10:03	07/11/17 20:02	10
Indeno[1,2,3-cd]pyrene	**0.39**		0.076	0.029	mg/Kg	☼	07/11/17 10:03	07/11/17 20:02	10
2-Methylphenol	ND		0.37	0.033	mg/Kg	☼	07/11/17 10:03	07/11/17 20:02	10
Methylphenol, 3 & 4	ND		0.37	0.033	mg/Kg	☼	07/11/17 10:03	07/11/17 20:02	10
Naphthalene	**0.098**		0.076	0.027	mg/Kg	☼	07/11/17 10:03	07/11/17 20:02	10
Pentachlorophenol	ND		1.9	0.71	mg/Kg	☼	07/11/17 10:03	07/11/17 20:02	10
Phenanthrene	**0.21**	**F1**	0.076	0.031	mg/Kg	☼	07/11/17 10:03	07/11/17 20:02	10
Phenol	ND		0.37	0.051	mg/Kg	☼	07/11/17 10:03	07/11/17 20:02	10
Pyrene	**0.81**	**F1**	0.076	0.034	mg/Kg	☼	07/11/17 10:03	07/11/17 20:02	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*43*		*42 - 100*	*07/11/17 10:03*	*07/11/17 20:02*	*10*
2-Fluorophenol (Surr)	*40*		*21 - 107*	*07/11/17 10:03*	*07/11/17 20:02*	*10*
Nitrobenzene-d5 (Surr)	*46*		*35 - 109*	*07/11/17 10:03*	*07/11/17 20:02*	*10*
Phenol-d5 (Surr)	*42*		*29 - 105*	*07/11/17 10:03*	*07/11/17 20:02*	*10*
Terphenyl-d14 (Surr)	*49*		*36 - 113*	*07/11/17 10:03*	*07/11/17 20:02*	*10*
2,4,6-Tribromophenol (Surr)	*36*		*20 - 134*	*07/11/17 10:03*	*07/11/17 20:02*	*10*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.019	0.0099	mg/Kg	☼	07/11/17 09:57	07/11/17 23:40	1
PCB-1221	ND		0.019	0.0096	mg/Kg	☼	07/11/17 09:57	07/11/17 23:40	1
PCB-1232	ND		0.019	0.0074	mg/Kg	☼	07/11/17 09:57	07/11/17 23:40	1
PCB-1242	ND		0.019	0.015	mg/Kg	☼	07/11/17 09:57	07/11/17 23:40	1
PCB-1248	**1.1**		0.019	0.0089	mg/Kg	☼	07/11/17 09:57	07/11/17 23:40	1
PCB-1254	**0.70**		0.019	0.0081	mg/Kg	☼	07/11/17 09:57	07/11/17 23:40	1
PCB-1260	**0.17**		0.019	0.012	mg/Kg	☼	07/11/17 09:57	07/11/17 23:40	1
PCB-1262	ND		0.019	0.013	mg/Kg	☼	07/11/17 09:57	07/11/17 23:40	1
PCB-1268	ND		0.019	0.0057	mg/Kg	☼	07/11/17 09:57	07/11/17 23:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*67*		*23 - 150*	*07/11/17 09:57*	*07/11/17 23:40*	*1*
DCB Decachlorobiphenyl (Surr)	*72*		*23 - 150*	*07/11/17 09:57*	*07/11/17 23:40*	*1*
Tetrachloro-m-xylene (Surr)	*77*		*27 - 138*	*07/11/17 09:57*	*07/11/17 23:40*	*1*
Tetrachloro-m-xylene (Surr)	*69*		*27 - 138*	*07/11/17 09:57*	*07/11/17 23:40*	*1*

Client Sample ID: DUP2

Date Collected: 07/10/17 00:00
Date Received: 07/11/17 08:30

Lab Sample ID: 180-68037-1
Matrix: Solid
Percent Solids: 88.5

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.0		1.1	0.50	mg/Kg	☼	07/12/17 11:52	07/13/17 14:20	1
Barium	91		23	6.1	mg/Kg	☼	07/12/17 11:52	07/13/17 14:20	1
Beryllium	0.38	J	0.46	0.12	mg/Kg	☼	07/12/17 11:52	07/13/17 14:20	1
Cadmium	0.20	J	0.57	0.13	mg/Kg	☼	07/12/17 11:52	07/13/17 14:20	1
Chromium	11		0.57	0.15	mg/Kg	☼	07/12/17 11:52	07/13/17 14:20	1
Copper	25		2.9	0.88	mg/Kg	☼	07/12/17 11:52	07/13/17 14:20	1
Lead	34		1.1	0.37	mg/Kg	☼	07/12/17 11:52	07/13/17 14:20	1
Manganese	430		1.7	0.46	mg/Kg	☼	07/12/17 11:52	07/13/17 14:20	1
Nickel	20		4.6	1.0	mg/Kg	☼	07/12/17 11:52	07/13/17 14:20	1
Selenium	0.68	J	1.1	0.45	mg/Kg	☼	07/12/17 11:52	07/13/17 14:20	1
Silver	ND		0.57	0.19	mg/Kg	☼	07/12/17 11:52	07/13/17 14:20	1
Zinc	75		2.3	1.2	mg/Kg	☼	07/12/17 11:52	07/13/17 14:20	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.26		0.038	0.0085	mg/Kg	☼	07/12/17 14:26	07/13/17 09:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	11.5		0.1	0.1	%			07/12/17 12:23	1
Percent Solids	88.5		0.1	0.1	%			07/12/17 12:23	1
Cyanide, Total	ND		0.50	0.15	mg/Kg	☼	07/11/17 13:12	07/11/17 17:52	1

Client Sample ID: WINDROW1, SEC 3, C

Date Collected: 07/10/17 16:15
Date Received: 07/11/17 08:30

Lab Sample ID: 180-68037-2
Matrix: Solid
Percent Solids: 88.7

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.076	0.025	mg/Kg	☼	07/11/17 10:03	07/11/17 21:22	10
Acenaphthylene	0.25		0.076	0.026	mg/Kg	☼	07/11/17 10:03	07/11/17 21:22	10
Anthracene	0.18		0.076	0.028	mg/Kg	☼	07/11/17 10:03	07/11/17 21:22	10
Benzo[a]anthracene	0.52		0.076	0.030	mg/Kg	☼	07/11/17 10:03	07/11/17 21:22	10
Benzo[a]pyrene	0.49		0.076	0.031	mg/Kg	☼	07/11/17 10:03	07/11/17 21:22	10
Benzo[b]fluoranthene	0.62		0.076	0.033	mg/Kg	☼	07/11/17 10:03	07/11/17 21:22	10
Benzo[g,h,i]perylene	0.44		0.076	0.033	mg/Kg	☼	07/11/17 10:03	07/11/17 21:22	10
Benzo[k]fluoranthene	0.23		0.076	0.026	mg/Kg	☼	07/11/17 10:03	07/11/17 21:22	10
Chrysene	0.48		0.076	0.029	mg/Kg	☼	07/11/17 10:03	07/11/17 21:22	10
Dibenz(a,h)anthracene	0.098		0.076	0.031	mg/Kg	☼	07/11/17 10:03	07/11/17 21:22	10
Dibenzofuran	0.035	J	0.37	0.030	mg/Kg	☼	07/11/17 10:03	07/11/17 21:22	10
1,4-Dioxane	ND		0.75	0.057	mg/Kg	☼	07/11/17 10:03	07/11/17 21:22	10
Fluoranthene	0.64		0.076	0.030	mg/Kg	☼	07/11/17 10:03	07/11/17 21:22	10
Fluorene	0.039	J	0.076	0.027	mg/Kg	☼	07/11/17 10:03	07/11/17 21:22	10
Hexachlorobenzene	ND		0.076	0.030	mg/Kg	☼	07/11/17 10:03	07/11/17 21:22	10
Indeno[1,2,3-cd]pyrene	0.35		0.076	0.029	mg/Kg	☼	07/11/17 10:03	07/11/17 21:22	10
2-Methylphenol	ND		0.37	0.033	mg/Kg	☼	07/11/17 10:03	07/11/17 21:22	10
Methylphenol, 3 & 4	ND		0.37	0.033	mg/Kg	☼	07/11/17 10:03	07/11/17 21:22	10
Naphthalene	0.12		0.076	0.027	mg/Kg	☼	07/11/17 10:03	07/11/17 21:22	10
Pentachlorophenol	ND		1.9	0.71	mg/Kg	☼	07/11/17 10:03	07/11/17 21:22	10
Phenanthrene	0.39		0.076	0.031	mg/Kg	☼	07/11/17 10:03	07/11/17 21:22	10

Client Sample ID: WINDROW1, SEC 3, C **Lab Sample ID: 180-68037-2**
Date Collected: 07/10/17 16:15 **Matrix: Solid**
Date Received: 07/11/17 08:30 **Percent Solids: 88.7**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		0.37	0.051	mg/Kg	☼	07/11/17 10:03	07/11/17 21:22	10
Pyrene	**0.82**		0.076	0.033	mg/Kg	☼	07/11/17 10:03	07/11/17 21:22	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*54*		*42 - 100*	*07/11/17 10:03*	*07/11/17 21:22*	*10*
2-Fluorophenol (Surr)	*53*		*21 - 107*	*07/11/17 10:03*	*07/11/17 21:22*	*10*
Nitrobenzene-d5 (Surr)	*61*		*35 - 109*	*07/11/17 10:03*	*07/11/17 21:22*	*10*
Phenol-d5 (Surr)	*58*		*29 - 105*	*07/11/17 10:03*	*07/11/17 21:22*	*10*
Terphenyl-d14 (Surr)	*60*		*36 - 113*	*07/11/17 10:03*	*07/11/17 21:22*	*10*
2,4,6-Tribromophenol (Surr)	*55*		*20 - 134*	*07/11/17 10:03*	*07/11/17 21:22*	*10*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.018	0.0098	mg/Kg	☼	07/11/17 09:57	07/12/17 00:01	1
PCB-1221	ND		0.018	0.0095	mg/Kg	☼	07/11/17 09:57	07/12/17 00:01	1
PCB-1232	ND		0.018	0.0073	mg/Kg	☼	07/11/17 09:57	07/12/17 00:01	1
PCB-1242	ND		0.018	0.015	mg/Kg	☼	07/11/17 09:57	07/12/17 00:01	1
PCB-1248	**1.0**		0.018	0.0088	mg/Kg	☼	07/11/17 09:57	07/12/17 00:01	1
PCB-1254	**0.67**		0.018	0.0081	mg/Kg	☼	07/11/17 09:57	07/12/17 00:01	1
PCB-1260	**0.17**		0.018	0.012	mg/Kg	☼	07/11/17 09:57	07/12/17 00:01	1
PCB-1262	ND		0.018	0.013	mg/Kg	☼	07/11/17 09:57	07/12/17 00:01	1
PCB-1268	ND		0.018	0.0056	mg/Kg	☼	07/11/17 09:57	07/12/17 00:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*65*		*23 - 150*	*07/11/17 09:57*	*07/12/17 00:01*	*1*
DCB Decachlorobiphenyl (Surr)	*69*		*23 - 150*	*07/11/17 09:57*	*07/12/17 00:01*	*1*
Tetrachloro-m-xylene (Surr)	*73*		*27 - 138*	*07/11/17 09:57*	*07/12/17 00:01*	*1*
Tetrachloro-m-xylene (Surr)	*67*		*27 - 138*	*07/11/17 09:57*	*07/12/17 00:01*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**7.4**		1.1	0.50	mg/Kg	☼	07/12/17 11:52	07/13/17 14:40	1
Barium	**92**		23	6.1	mg/Kg	☼	07/12/17 11:52	07/13/17 14:40	1
Beryllium	**0.40**	**J**	0.46	0.12	mg/Kg	☼	07/12/17 11:52	07/13/17 14:40	1
Cadmium	**0.18**	**J**	0.57	0.13	mg/Kg	☼	07/12/17 11:52	07/13/17 14:40	1
Chromium	**12**		0.57	0.15	mg/Kg	☼	07/12/17 11:52	07/13/17 14:40	1
Copper	**25**		2.8	0.88	mg/Kg	☼	07/12/17 11:52	07/13/17 14:40	1
Lead	**36**		1.1	0.37	mg/Kg	☼	07/12/17 11:52	07/13/17 14:40	1
Manganese	**420**		1.7	0.46	mg/Kg	☼	07/12/17 11:52	07/13/17 14:40	1
Nickel	**20**		4.6	1.0	mg/Kg	☼	07/12/17 11:52	07/13/17 14:40	1
Selenium	ND		1.1	0.45	mg/Kg	☼	07/12/17 11:52	07/13/17 14:40	1
Silver	ND		0.57	0.19	mg/Kg	☼	07/12/17 11:52	07/13/17 14:40	1
Zinc	**75**		2.3	1.2	mg/Kg	☼	07/12/17 11:52	07/13/17 14:40	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.45**		0.033	0.0074	mg/Kg	☼	07/12/17 14:26	07/13/17 09:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**11.3**		0.1	0.1	%			07/12/17 12:23	1

Client Sample ID: WINDROW1, SEC 3, C

Lab Sample ID: 180-68037-2
Date Collected: 07/10/17 16:15
Matrix: Solid
Date Received: 07/11/17 08:30
Percent Solids: 88.7

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	88.7		0.1	0.1	%			07/12/17 12:23	1
Cyanide, Total	0.19	J	0.49	0.15	mg/Kg	☼	07/11/17 13:12	07/11/17 17:54	1

Client Sample ID: WINDROW1, SEC 3, B

Lab Sample ID: 180-68037-3
Date Collected: 07/10/17 16:05
Matrix: Solid
Date Received: 07/11/17 08:30
Percent Solids: 90.9

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.020	0.0032	mg/Kg	☼	07/11/17 09:23	07/11/17 10:49	1
Benzene	ND		0.0051	0.0020	mg/Kg	☼	07/11/17 09:23	07/11/17 10:49	1
2-Butanone (MEK)	ND		0.0051	0.0029	mg/Kg	☼	07/11/17 09:23	07/11/17 10:49	1
Carbon tetrachloride	ND		0.0051	0.0034	mg/Kg	☼	07/11/17 09:23	07/11/17 10:49	1
Chlorobenzene	ND		0.0051	0.0016	mg/Kg	☼	07/11/17 09:23	07/11/17 10:49	1
Chloroform	ND		0.0051	0.0021	mg/Kg	☼	07/11/17 09:23	07/11/17 10:49	1
cis-1,2-Dichloroethene	ND		0.0051	0.0016	mg/Kg	☼	07/11/17 09:23	07/11/17 10:49	1
1,2-Dichlorobenzene	ND		0.0051	0.0041	mg/Kg	☼	07/11/17 09:23	07/11/17 10:49	1
1,3-Dichlorobenzene	ND		0.0051	0.0016	mg/Kg	☼	07/11/17 09:23	07/11/17 10:49	1
1,4-Dichlorobenzene	ND		0.0051	0.0010	mg/Kg	☼	07/11/17 09:23	07/11/17 10:49	1
1,1-Dichloroethane	ND		0.0051	0.0018	mg/Kg	☼	07/11/17 09:23	07/11/17 10:49	1
1,2-Dichloroethane	ND		0.0051	0.0015	mg/Kg	☼	07/11/17 09:23	07/11/17 10:49	1
1,1-Dichloroethene	ND		0.0051	0.0029	mg/Kg	☼	07/11/17 09:23	07/11/17 10:49	1
Ethylbenzene	ND		0.0051	0.0022	mg/Kg	☼	07/11/17 09:23	07/11/17 10:49	1
Methylene Chloride	ND		0.0051	0.0024	mg/Kg	☼	07/11/17 09:23	07/11/17 10:49	1
Methyl tert-butyl ether	ND		0.0051	0.0037	mg/Kg	☼	07/11/17 09:23	07/11/17 10:49	1
n-Butylbenzene	ND		0.0051	0.0038	mg/Kg	☼	07/11/17 09:23	07/11/17 10:49	1
N-Propylbenzene	ND		0.0051	0.0021	mg/Kg	☼	07/11/17 09:23	07/11/17 10:49	1
sec-Butylbenzene	ND		0.0051	0.0025	mg/Kg	☼	07/11/17 09:23	07/11/17 10:49	1
tert-Butylbenzene	ND		0.0051	0.0019	mg/Kg	☼	07/11/17 09:23	07/11/17 10:49	1
Tetrachloroethene	ND		0.0051	0.0020	mg/Kg	☼	07/11/17 09:23	07/11/17 10:49	1
Toluene	ND		0.0051	0.0017	mg/Kg	☼	07/11/17 09:23	07/11/17 10:49	1
trans-1,2-Dichloroethene	ND		0.0051	0.0026	mg/Kg	☼	07/11/17 09:23	07/11/17 10:49	1
1,1,1-Trichloroethane	ND		0.0051	0.0025	mg/Kg	☼	07/11/17 09:23	07/11/17 10:49	1
Trichloroethene	ND		0.0051	0.0015	mg/Kg	☼	07/11/17 09:23	07/11/17 10:49	1
1,2,4-Trimethylbenzene	ND		0.0051	0.0014	mg/Kg	☼	07/11/17 09:23	07/11/17 10:49	1
1,3,5-Trimethylbenzene	ND		0.0051	0.0017	mg/Kg	☼	07/11/17 09:23	07/11/17 10:49	1
Vinyl chloride	ND		0.0051	0.0037	mg/Kg	☼	07/11/17 09:23	07/11/17 10:49	1
Xylenes, Total	ND		0.010	0.0044	mg/Kg	☼	07/11/17 09:23	07/11/17 10:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*63 - 120*	*07/11/17 09:23*	*07/11/17 10:49*	*1*
Dibromofluoromethane (Surr)	*90*		*68 - 121*	*07/11/17 09:23*	*07/11/17 10:49*	*1*
1,2-Dichloroethane-d4 (Surr)	*80*		*52 - 124*	*07/11/17 09:23*	*07/11/17 10:49*	*1*
Toluene-d8 (Surr)	*109*		*72 - 127*	*07/11/17 09:23*	*07/11/17 10:49*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.1		0.1	0.1	%			07/12/17 12:23	1
Percent Solids	90.9		0.1	0.1	%			07/12/17 12:23	1

Client Sample ID: WINDROW1, SEC 4, C **Lab Sample ID: 180-68037-4**
Date Collected: 07/10/17 16:40 **Matrix: Solid**
Date Received: 07/11/17 08:30 **Percent Solids: 89.7**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.075	0.025	mg/Kg	☼	07/11/17 10:03	07/11/17 21:48	10
Acenaphthylene	**0.21**		0.075	0.025	mg/Kg	☼	07/11/17 10:03	07/11/17 21:48	10
Anthracene	**0.15**		0.075	0.027	mg/Kg	☼	07/11/17 10:03	07/11/17 21:48	10
Benzo[a]anthracene	**0.33**		0.075	0.029	mg/Kg	☼	07/11/17 10:03	07/11/17 21:48	10
Benzo[a]pyrene	**0.35**		0.075	0.031	mg/Kg	☼	07/11/17 10:03	07/11/17 21:48	10
Benzo[b]fluoranthene	**0.42**		0.075	0.032	mg/Kg	☼	07/11/17 10:03	07/11/17 21:48	10
Benzo[g,h,i]perylene	**0.35**		0.075	0.032	mg/Kg	☼	07/11/17 10:03	07/11/17 21:48	10
Benzo[k]fluoranthene	**0.20**		0.075	0.026	mg/Kg	☼	07/11/17 10:03	07/11/17 21:48	10
Chrysene	**0.33**		0.075	0.029	mg/Kg	☼	07/11/17 10:03	07/11/17 21:48	10
Dibenz(a,h)anthracene	**0.096**		0.075	0.031	mg/Kg	☼	07/11/17 10:03	07/11/17 21:48	10
Dibenzofuran	ND		0.37	0.030	mg/Kg	☼	07/11/17 10:03	07/11/17 21:48	10
1,4-Dioxane	ND		0.74	0.056	mg/Kg	☼	07/11/17 10:03	07/11/17 21:48	10
Fluoranthene	**0.42**		0.075	0.029	mg/Kg	☼	07/11/17 10:03	07/11/17 21:48	10
Fluorene	**0.032**	**J**	0.075	0.026	mg/Kg	☼	07/11/17 10:03	07/11/17 21:48	10
Hexachlorobenzene	ND		0.075	0.030	mg/Kg	☼	07/11/17 10:03	07/11/17 21:48	10
Indeno[1,2,3-cd]pyrene	**0.28**		0.075	0.029	mg/Kg	☼	07/11/17 10:03	07/11/17 21:48	10
2-Methylphenol	ND		0.37	0.033	mg/Kg	☼	07/11/17 10:03	07/11/17 21:48	10
Methylphenol, 3 & 4	ND		0.37	0.033	mg/Kg	☼	07/11/17 10:03	07/11/17 21:48	10
Naphthalene	**0.10**		0.075	0.027	mg/Kg	☼	07/11/17 10:03	07/11/17 21:48	10
Pentachlorophenol	ND		1.9	0.70	mg/Kg	☼	07/11/17 10:03	07/11/17 21:48	10
Phenanthrene	**0.29**		0.075	0.031	mg/Kg	☼	07/11/17 10:03	07/11/17 21:48	10
Phenol	ND		0.37	0.050	mg/Kg	☼	07/11/17 10:03	07/11/17 21:48	10
Pyrene	**0.55**		0.075	0.033	mg/Kg	☼	07/11/17 10:03	07/11/17 21:48	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*45*		*42 - 100*	*07/11/17 10:03*	*07/11/17 21:48*	*10*
2-Fluorophenol (Surr)	*46*		*21 - 107*	*07/11/17 10:03*	*07/11/17 21:48*	*10*
Nitrobenzene-d5 (Surr)	*51*		*35 - 109*	*07/11/17 10:03*	*07/11/17 21:48*	*10*
Phenol-d5 (Surr)	*52*		*29 - 105*	*07/11/17 10:03*	*07/11/17 21:48*	*10*
Terphenyl-d14 (Surr)	*52*		*36 - 113*	*07/11/17 10:03*	*07/11/17 21:48*	*10*
2,4,6-Tribromophenol (Surr)	*49*		*20 - 134*	*07/11/17 10:03*	*07/11/17 21:48*	*10*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.019	0.0099	mg/Kg	☼	07/11/17 09:57	07/12/17 00:21	1
PCB-1221	ND		0.019	0.0096	mg/Kg	☼	07/11/17 09:57	07/12/17 00:21	1
PCB-1232	ND		0.019	0.0074	mg/Kg	☼	07/11/17 09:57	07/12/17 00:21	1
PCB-1242	ND		0.019	0.015	mg/Kg	☼	07/11/17 09:57	07/12/17 00:21	1
PCB-1248	**0.91**		0.019	0.0089	mg/Kg	☼	07/11/17 09:57	07/12/17 00:21	1
PCB-1254	**0.60**		0.019	0.0081	mg/Kg	☼	07/11/17 09:57	07/12/17 00:21	1
PCB-1260	**0.17**		0.019	0.012	mg/Kg	☼	07/11/17 09:57	07/12/17 00:21	1
PCB-1262	ND		0.019	0.013	mg/Kg	☼	07/11/17 09:57	07/12/17 00:21	1
PCB-1268	ND		0.019	0.0057	mg/Kg	☼	07/11/17 09:57	07/12/17 00:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*62*		*23 - 150*	*07/11/17 09:57*	*07/12/17 00:21*	*1*
DCB Decachlorobiphenyl (Surr)	*69*		*23 - 150*	*07/11/17 09:57*	*07/12/17 00:21*	*1*
Tetrachloro-m-xylene (Surr)	*75*		*27 - 138*	*07/11/17 09:57*	*07/12/17 00:21*	*1*
Tetrachloro-m-xylene (Surr)	*70*		*27 - 138*	*07/11/17 09:57*	*07/12/17 00:21*	*1*

Client Sample ID: WINDROW1, SEC 4, C — Lab Sample ID: 180-68037-4

Date Collected: 07/10/17 16:40 — **Matrix: Solid**
Date Received: 07/11/17 08:30 — **Percent Solids: 89.7**

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.4		1.2	0.54	mg/Kg	☼	07/12/17 11:52	07/13/17 14:45	1
Barium	94		25	6.6	mg/Kg	☼	07/12/17 11:52	07/13/17 14:45	1
Beryllium	0.41	J	0.49	0.13	mg/Kg	☼	07/12/17 11:52	07/13/17 14:45	1
Cadmium	0.17	J	0.61	0.14	mg/Kg	☼	07/12/17 11:52	07/13/17 14:45	1
Chromium	11		0.61	0.16	mg/Kg	☼	07/12/17 11:52	07/13/17 14:45	1
Copper	22		3.1	0.94	mg/Kg	☼	07/12/17 11:52	07/13/17 14:45	1
Lead	32		1.2	0.40	mg/Kg	☼	07/12/17 11:52	07/13/17 14:45	1
Manganese	440		1.8	0.50	mg/Kg	☼	07/12/17 11:52	07/13/17 14:45	1
Nickel	20		4.9	1.1	mg/Kg	☼	07/12/17 11:52	07/13/17 14:45	1
Selenium	ND		1.2	0.49	mg/Kg	☼	07/12/17 11:52	07/13/17 14:45	1
Silver	ND		0.61	0.20	mg/Kg	☼	07/12/17 11:52	07/13/17 14:45	1
Zinc	74		2.5	1.2	mg/Kg	☼	07/12/17 11:52	07/13/17 14:45	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.29		0.033	0.0074	mg/Kg	☼	07/12/17 14:26	07/13/17 09:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	10.3		0.1	0.1	%			07/12/17 12:23	1
Percent Solids	89.7		0.1	0.1	%			07/12/17 12:23	1
Cyanide, Total	ND		0.50	0.15	mg/Kg	☼	07/11/17 13:12	07/11/17 17:59	1

Client Sample ID: DUP1 — Lab Sample ID: 180-68037-5

Date Collected: 07/10/17 00:00 — **Matrix: Solid**
Date Received: 07/11/17 08:30 — **Percent Solids: 88.8**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.020	0.0032	mg/Kg	☼	07/11/17 09:23	07/11/17 11:11	1
Benzene	ND		0.0050	0.0020	mg/Kg	☼	07/11/17 09:23	07/11/17 11:11	1
2-Butanone (MEK)	ND		0.0050	0.0029	mg/Kg	☼	07/11/17 09:23	07/11/17 11:11	1
Carbon tetrachloride	ND		0.0050	0.0033	mg/Kg	☼	07/11/17 09:23	07/11/17 11:11	1
Chlorobenzene	ND		0.0050	0.0016	mg/Kg	☼	07/11/17 09:23	07/11/17 11:11	1
Chloroform	ND		0.0050	0.0021	mg/Kg	☼	07/11/17 09:23	07/11/17 11:11	1
cis-1,2-Dichloroethene	ND		0.0050	0.0016	mg/Kg	☼	07/11/17 09:23	07/11/17 11:11	1
1,2-Dichlorobenzene	ND		0.0050	0.0040	mg/Kg	☼	07/11/17 09:23	07/11/17 11:11	1
1,3-Dichlorobenzene	ND		0.0050	0.0016	mg/Kg	☼	07/11/17 09:23	07/11/17 11:11	1
1,4-Dichlorobenzene	ND		0.0050	0.0010	mg/Kg	☼	07/11/17 09:23	07/11/17 11:11	1
1,1-Dichloroethane	ND		0.0050	0.0018	mg/Kg	☼	07/11/17 09:23	07/11/17 11:11	1
1,2-Dichloroethane	ND		0.0050	0.0015	mg/Kg	☼	07/11/17 09:23	07/11/17 11:11	1
1,1-Dichloroethene	ND		0.0050	0.0029	mg/Kg	☼	07/11/17 09:23	07/11/17 11:11	1
Ethylbenzene	ND		0.0050	0.0022	mg/Kg	☼	07/11/17 09:23	07/11/17 11:11	1
Methylene Chloride	ND		0.0050	0.0024	mg/Kg	☼	07/11/17 09:23	07/11/17 11:11	1
Methyl tert-butyl ether	ND		0.0050	0.0037	mg/Kg	☼	07/11/17 09:23	07/11/17 11:11	1
n-Butylbenzene	ND		0.0050	0.0038	mg/Kg	☼	07/11/17 09:23	07/11/17 11:11	1
N-Propylbenzene	ND		0.0050	0.0021	mg/Kg	☼	07/11/17 09:23	07/11/17 11:11	1
sec-Butylbenzene	ND		0.0050	0.0024	mg/Kg	☼	07/11/17 09:23	07/11/17 11:11	1
tert-Butylbenzene	ND		0.0050	0.0018	mg/Kg	☼	07/11/17 09:23	07/11/17 11:11	1
Tetrachloroethene	ND		0.0050	0.0020	mg/Kg	☼	07/11/17 09:23	07/11/17 11:11	1

Client Sample ID: DUP1

Date Collected: 07/10/17 00:00
Date Received: 07/11/17 08:30

Lab Sample ID: 180-68037-5

Matrix: Solid
Percent Solids: 88.8

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		0.0050	0.0017	mg/Kg	☼	07/11/17 09:23	07/11/17 11:11	1
trans-1,2-Dichloroethene	ND		0.0050	0.0025	mg/Kg	☼	07/11/17 09:23	07/11/17 11:11	1
1,1,1-Trichloroethane	ND		0.0050	0.0025	mg/Kg	☼	07/11/17 09:23	07/11/17 11:11	1
Trichloroethene	ND		0.0050	0.0015	mg/Kg	☼	07/11/17 09:23	07/11/17 11:11	1
1,2,4-Trimethylbenzene	ND		0.0050	0.0014	mg/Kg	☼	07/11/17 09:23	07/11/17 11:11	1
1,3,5-Trimethylbenzene	ND		0.0050	0.0017	mg/Kg	☼	07/11/17 09:23	07/11/17 11:11	1
Vinyl chloride	ND		0.0050	0.0037	mg/Kg	☼	07/11/17 09:23	07/11/17 11:11	1
Xylenes, Total	ND		0.010	0.0043	mg/Kg	☼	07/11/17 09:23	07/11/17 11:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*63 - 120*	*07/11/17 09:23*	*07/11/17 11:11*	*1*
Dibromofluoromethane (Surr)	*90*		*68 - 121*	*07/11/17 09:23*	*07/11/17 11:11*	*1*
1,2-Dichloroethane-d4 (Surr)	*80*		*52 - 124*	*07/11/17 09:23*	*07/11/17 11:11*	*1*
Toluene-d8 (Surr)	*114*		*72 - 127*	*07/11/17 09:23*	*07/11/17 11:11*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**11.2**		0.1	0.1	%			07/12/17 12:23	1
Percent Solids	**88.8**		0.1	0.1	%			07/12/17 12:23	1

Client Sample ID: WINDROW1, SEC 3, A

Date Collected: 07/10/17 16:00
Date Received: 07/11/17 08:30

Lab Sample ID: 180-68037-6

Matrix: Solid
Percent Solids: 91.9

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.020	0.0032	mg/Kg	☼	07/11/17 09:23	07/11/17 11:34	1
Benzene	ND		0.0051	0.0020	mg/Kg	☼	07/11/17 09:23	07/11/17 11:34	1
2-Butanone (MEK)	ND		0.0051	0.0029	mg/Kg	☼	07/11/17 09:23	07/11/17 11:34	1
Carbon tetrachloride	ND		0.0051	0.0034	mg/Kg	☼	07/11/17 09:23	07/11/17 11:34	1
Chlorobenzene	ND		0.0051	0.0016	mg/Kg	☼	07/11/17 09:23	07/11/17 11:34	1
Chloroform	ND		0.0051	0.0021	mg/Kg	☼	07/11/17 09:23	07/11/17 11:34	1
cis-1,2-Dichloroethene	ND		0.0051	0.0016	mg/Kg	☼	07/11/17 09:23	07/11/17 11:34	1
1,2-Dichlorobenzene	ND		0.0051	0.0041	mg/Kg	☼	07/11/17 09:23	07/11/17 11:34	1
1,3-Dichlorobenzene	ND		0.0051	0.0016	mg/Kg	☼	07/11/17 09:23	07/11/17 11:34	1
1,4-Dichlorobenzene	ND		0.0051	0.0010	mg/Kg	☼	07/11/17 09:23	07/11/17 11:34	1
1,1-Dichloroethane	ND		0.0051	0.0018	mg/Kg	☼	07/11/17 09:23	07/11/17 11:34	1
1,2-Dichloroethane	ND		0.0051	0.0015	mg/Kg	☼	07/11/17 09:23	07/11/17 11:34	1
1,1-Dichloroethene	ND		0.0051	0.0029	mg/Kg	☼	07/11/17 09:23	07/11/17 11:34	1
Ethylbenzene	ND		0.0051	0.0022	mg/Kg	☼	07/11/17 09:23	07/11/17 11:34	1
Methylene Chloride	ND		0.0051	0.0024	mg/Kg	☼	07/11/17 09:23	07/11/17 11:34	1
Methyl tert-butyl ether	ND		0.0051	0.0037	mg/Kg	☼	07/11/17 09:23	07/11/17 11:34	1
n-Butylbenzene	ND		0.0051	0.0038	mg/Kg	☼	07/11/17 09:23	07/11/17 11:34	1
N-Propylbenzene	ND		0.0051	0.0021	mg/Kg	☼	07/11/17 09:23	07/11/17 11:34	1
sec-Butylbenzene	ND		0.0051	0.0025	mg/Kg	☼	07/11/17 09:23	07/11/17 11:34	1
tert-Butylbenzene	ND		0.0051	0.0019	mg/Kg	☼	07/11/17 09:23	07/11/17 11:34	1
Tetrachloroethene	ND		0.0051	0.0020	mg/Kg	☼	07/11/17 09:23	07/11/17 11:34	1
Toluene	ND		0.0051	0.0017	mg/Kg	☼	07/11/17 09:23	07/11/17 11:34	1
trans-1,2-Dichloroethene	ND		0.0051	0.0026	mg/Kg	☼	07/11/17 09:23	07/11/17 11:34	1
1,1,1-Trichloroethane	ND		0.0051	0.0025	mg/Kg	☼	07/11/17 09:23	07/11/17 11:34	1

Client Sample ID: WINDROW1, SEC 3, A

Lab Sample ID: 180-68037-6
Date Collected: 07/10/17 16:00
Matrix: Solid
Date Received: 07/11/17 08:30
Percent Solids: 91.9

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	ND		0.0051	0.0015	mg/Kg	☼	07/11/17 09:23	07/11/17 11:34	1
1,2,4-Trimethylbenzene	ND		0.0051	0.0014	mg/Kg	☼	07/11/17 09:23	07/11/17 11:34	1
1,3,5-Trimethylbenzene	ND		0.0051	0.0017	mg/Kg	☼	07/11/17 09:23	07/11/17 11:34	1
Vinyl chloride	ND		0.0051	0.0037	mg/Kg	☼	07/11/17 09:23	07/11/17 11:34	1
Xylenes, Total	ND		0.010	0.0044	mg/Kg	☼	07/11/17 09:23	07/11/17 11:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*63 - 120*	*07/11/17 09:23*	*07/11/17 11:34*	*1*
Dibromofluoromethane (Surr)	*96*		*68 - 121*	*07/11/17 09:23*	*07/11/17 11:34*	*1*
1,2-Dichloroethane-d4 (Surr)	*87*		*52 - 124*	*07/11/17 09:23*	*07/11/17 11:34*	*1*
Toluene-d8 (Surr)	*119*		*72 - 127*	*07/11/17 09:23*	*07/11/17 11:34*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**8.1**		0.1	0.1	%			07/12/17 12:23	1
Percent Solids	**91.9**		0.1	0.1	%			07/12/17 12:23	1

Client Sample ID: WINDROW1, SEC 4, B

Lab Sample ID: 180-68037-7
Date Collected: 07/10/17 16:35
Matrix: Solid
Date Received: 07/11/17 08:30
Percent Solids: 88.9

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.017	0.0026	mg/Kg	☼	07/11/17 09:23	07/11/17 11:56	1
Benzene	ND		0.0042	0.0016	mg/Kg	☼	07/11/17 09:23	07/11/17 11:56	1
2-Butanone (MEK)	ND		0.0042	0.0024	mg/Kg	☼	07/11/17 09:23	07/11/17 11:56	1
Carbon tetrachloride	ND		0.0042	0.0028	mg/Kg	☼	07/11/17 09:23	07/11/17 11:56	1
Chlorobenzene	ND		0.0042	0.0013	mg/Kg	☼	07/11/17 09:23	07/11/17 11:56	1
Chloroform	ND		0.0042	0.0018	mg/Kg	☼	07/11/17 09:23	07/11/17 11:56	1
cis-1,2-Dichloroethene	ND		0.0042	0.0013	mg/Kg	☼	07/11/17 09:23	07/11/17 11:56	1
1,2-Dichlorobenzene	ND		0.0042	0.0033	mg/Kg	☼	07/11/17 09:23	07/11/17 11:56	1
1,3-Dichlorobenzene	ND		0.0042	0.0013	mg/Kg	☼	07/11/17 09:23	07/11/17 11:56	1
1,4-Dichlorobenzene	ND		0.0042	0.00085	mg/Kg	☼	07/11/17 09:23	07/11/17 11:56	1
1,1-Dichloroethane	ND		0.0042	0.0015	mg/Kg	☼	07/11/17 09:23	07/11/17 11:56	1
1,2-Dichloroethane	ND		0.0042	0.0012	mg/Kg	☼	07/11/17 09:23	07/11/17 11:56	1
1,1-Dichloroethene	ND		0.0042	0.0024	mg/Kg	☼	07/11/17 09:23	07/11/17 11:56	1
Ethylbenzene	ND		0.0042	0.0018	mg/Kg	☼	07/11/17 09:23	07/11/17 11:56	1
Methylene Chloride	ND		0.0042	0.0020	mg/Kg	☼	07/11/17 09:23	07/11/17 11:56	1
Methyl tert-butyl ether	ND		0.0042	0.0031	mg/Kg	☼	07/11/17 09:23	07/11/17 11:56	1
n-Butylbenzene	ND		0.0042	0.0031	mg/Kg	☼	07/11/17 09:23	07/11/17 11:56	1
N-Propylbenzene	ND		0.0042	0.0018	mg/Kg	☼	07/11/17 09:23	07/11/17 11:56	1
sec-Butylbenzene	ND		0.0042	0.0020	mg/Kg	☼	07/11/17 09:23	07/11/17 11:56	1
tert-Butylbenzene	ND		0.0042	0.0015	mg/Kg	☼	07/11/17 09:23	07/11/17 11:56	1
Tetrachloroethene	ND		0.0042	0.0017	mg/Kg	☼	07/11/17 09:23	07/11/17 11:56	1
Toluene	ND		0.0042	0.0014	mg/Kg	☼	07/11/17 09:23	07/11/17 11:56	1
trans-1,2-Dichloroethene	ND		0.0042	0.0021	mg/Kg	☼	07/11/17 09:23	07/11/17 11:56	1
1,1,1-Trichloroethane	ND		0.0042	0.0021	mg/Kg	☼	07/11/17 09:23	07/11/17 11:56	1
Trichloroethene	ND		0.0042	0.0012	mg/Kg	☼	07/11/17 09:23	07/11/17 11:56	1
1,2,4-Trimethylbenzene	ND		0.0042	0.0011	mg/Kg	☼	07/11/17 09:23	07/11/17 11:56	1
1,3,5-Trimethylbenzene	ND		0.0042	0.0014	mg/Kg	☼	07/11/17 09:23	07/11/17 11:56	1

Client Sample ID: WINDROW1, SEC 4, B

Lab Sample ID: 180-68037-7
Date Collected: 07/10/17 16:35
Matrix: Solid
Date Received: 07/11/17 08:30
Percent Solids: 88.9

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		0.0042	0.0030	mg/Kg	☼	07/11/17 09:23	07/11/17 11:56	1
Xylenes, Total	ND		0.0083	0.0036	mg/Kg	☼	07/11/17 09:23	07/11/17 11:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*63 - 120*	*07/11/17 09:23*	*07/11/17 11:56*	*1*
Dibromofluoromethane (Surr)	*96*		*68 - 121*	*07/11/17 09:23*	*07/11/17 11:56*	*1*
1,2-Dichloroethane-d4 (Surr)	*89*		*52 - 124*	*07/11/17 09:23*	*07/11/17 11:56*	*1*
Toluene-d8 (Surr)	*119*		*72 - 127*	*07/11/17 09:23*	*07/11/17 11:56*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**11.1**		0.1	0.1	%			07/12/17 12:23	1
Percent Solids	**88.9**		0.1	0.1	%			07/12/17 12:23	1

Client Sample ID: WINDROW1, SEC 2, C

Lab Sample ID: 180-68037-8
Date Collected: 07/10/17 14:55
Matrix: Solid
Date Received: 07/11/17 08:30
Percent Solids: 89.4

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.075	0.025	mg/Kg	☼	07/11/17 10:03	07/11/17 22:15	10
Acenaphthylene	**0.21**		0.075	0.025	mg/Kg	☼	07/11/17 10:03	07/11/17 22:15	10
Anthracene	**0.19**		0.075	0.028	mg/Kg	☼	07/11/17 10:03	07/11/17 22:15	10
Benzo[a]anthracene	**0.36**		0.075	0.030	mg/Kg	☼	07/11/17 10:03	07/11/17 22:15	10
Benzo[a]pyrene	**0.37**		0.075	0.031	mg/Kg	☼	07/11/17 10:03	07/11/17 22:15	10
Benzo[b]fluoranthene	**0.45**		0.075	0.032	mg/Kg	☼	07/11/17 10:03	07/11/17 22:15	10
Benzo[g,h,i]perylene	**0.34**		0.075	0.032	mg/Kg	☼	07/11/17 10:03	07/11/17 22:15	10
Benzo[k]fluoranthene	**0.17**		0.075	0.026	mg/Kg	☼	07/11/17 10:03	07/11/17 22:15	10
Chrysene	**0.35**		0.075	0.029	mg/Kg	☼	07/11/17 10:03	07/11/17 22:15	10
Dibenz(a,h)anthracene	**0.085**		0.075	0.031	mg/Kg	☼	07/11/17 10:03	07/11/17 22:15	10
Dibenzofuran	ND		0.37	0.030	mg/Kg	☼	07/11/17 10:03	07/11/17 22:15	10
1,4-Dioxane	ND		0.75	0.056	mg/Kg	☼	07/11/17 10:03	07/11/17 22:15	10
Fluoranthene	**0.49**		0.075	0.029	mg/Kg	☼	07/11/17 10:03	07/11/17 22:15	10
Fluorene	ND		0.075	0.027	mg/Kg	☼	07/11/17 10:03	07/11/17 22:15	10
Hexachlorobenzene	ND		0.075	0.030	mg/Kg	☼	07/11/17 10:03	07/11/17 22:15	10
Indeno[1,2,3-cd]pyrene	**0.27**		0.075	0.029	mg/Kg	☼	07/11/17 10:03	07/11/17 22:15	10
2-Methylphenol	ND		0.37	0.033	mg/Kg	☼	07/11/17 10:03	07/11/17 22:15	10
Methylphenol, 3 & 4	ND		0.37	0.033	mg/Kg	☼	07/11/17 10:03	07/11/17 22:15	10
Naphthalene	**0.081**		0.075	0.027	mg/Kg	☼	07/11/17 10:03	07/11/17 22:15	10
Pentachlorophenol	ND		1.9	0.71	mg/Kg	☼	07/11/17 10:03	07/11/17 22:15	10
Phenanthrene	**0.33**		0.075	0.031	mg/Kg	☼	07/11/17 10:03	07/11/17 22:15	10
Phenol	ND		0.37	0.050	mg/Kg	☼	07/11/17 10:03	07/11/17 22:15	10
Pyrene	**0.60**		0.075	0.033	mg/Kg	☼	07/11/17 10:03	07/11/17 22:15	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*43*		*42 - 100*	*07/11/17 10:03*	*07/11/17 22:15*	*10*
2-Fluorophenol (Surr)	*44*		*21 - 107*	*07/11/17 10:03*	*07/11/17 22:15*	*10*
Nitrobenzene-d5 (Surr)	*50*		*35 - 109*	*07/11/17 10:03*	*07/11/17 22:15*	*10*
Phenol-d5 (Surr)	*46*		*29 - 105*	*07/11/17 10:03*	*07/11/17 22:15*	*10*
Terphenyl-d14 (Surr)	*50*		*36 - 113*	*07/11/17 10:03*	*07/11/17 22:15*	*10*

Client Sample ID: WINDROW1, SEC 2, C
Date Collected: 07/10/17 14:55
Date Received: 07/11/17 08:30

Lab Sample ID: 180-68037-8
Matrix: Solid
Percent Solids: 89.4

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	*46*		*20 - 134*	*07/11/17 10:03*	*07/11/17 22:15*	*10*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.018	0.0098	mg/Kg	☼	07/11/17 09:59	07/12/17 00:41	1
PCB-1221	ND		0.018	0.0095	mg/Kg	☼	07/11/17 09:59	07/12/17 00:41	1
PCB-1232	ND		0.018	0.0073	mg/Kg	☼	07/11/17 09:59	07/12/17 00:41	1
PCB-1242	ND		0.018	0.015	mg/Kg	☼	07/11/17 09:59	07/12/17 00:41	1
PCB-1248	**1.1**		0.018	0.0088	mg/Kg	☼	07/11/17 09:59	07/12/17 00:41	1
PCB-1254	**0.68**		0.018	0.0081	mg/Kg	☼	07/11/17 09:59	07/12/17 00:41	1
PCB-1260	**0.18**		0.018	0.012	mg/Kg	☼	07/11/17 09:59	07/12/17 00:41	1
PCB-1262	ND		0.018	0.013	mg/Kg	☼	07/11/17 09:59	07/12/17 00:41	1
PCB-1268	ND		0.018	0.0056	mg/Kg	☼	07/11/17 09:59	07/12/17 00:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	*65*		*23 - 150*	*07/11/17 09:59*	*07/12/17 00:41*	*1*
DCB Decachlorobiphenyl (Surr)	*70*		*23 - 150*	*07/11/17 09:59*	*07/12/17 00:41*	*1*
Tetrachloro-m-xylene (Surr)	*77*		*27 - 138*	*07/11/17 09:59*	*07/12/17 00:41*	*1*
Tetrachloro-m-xylene (Surr)	*70*		*27 - 138*	*07/11/17 09:59*	*07/12/17 00:41*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**6.5**		1.2	0.51	mg/Kg	☼	07/12/17 11:52	07/13/17 14:50	1
Barium	**83**		23	6.3	mg/Kg	☼	07/12/17 11:52	07/13/17 14:50	1
Beryllium	**0.37**	**J**	0.47	0.12	mg/Kg	☼	07/12/17 11:52	07/13/17 14:50	1
Cadmium	**0.17**	**J**	0.58	0.13	mg/Kg	☼	07/12/17 11:52	07/13/17 14:50	1
Chromium	**10**		0.58	0.15	mg/Kg	☼	07/12/17 11:52	07/13/17 14:50	1
Copper	**23**		2.9	0.90	mg/Kg	☼	07/12/17 11:52	07/13/17 14:50	1
Lead	**31**		1.2	0.38	mg/Kg	☼	07/12/17 11:52	07/13/17 14:50	1
Manganese	**430**		1.7	0.47	mg/Kg	☼	07/12/17 11:52	07/13/17 14:50	1
Nickel	**18**		4.7	1.0	mg/Kg	☼	07/12/17 11:52	07/13/17 14:50	1
Selenium	**0.56**	**J**	1.2	0.46	mg/Kg	☼	07/12/17 11:52	07/13/17 14:50	1
Silver	ND		0.58	0.19	mg/Kg	☼	07/12/17 11:52	07/13/17 14:50	1
Zinc	**67**		2.3	1.2	mg/Kg	☼	07/12/17 11:52	07/13/17 14:50	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.30**		0.034	0.0075	mg/Kg	☼	07/12/17 14:26	07/13/17 09:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**10.6**		0.1	0.1	%			07/12/17 12:23	1
Percent Solids	**89.4**		0.1	0.1	%			07/12/17 12:23	1
Cyanide, Total	ND		0.53	0.16	mg/Kg	☼	07/11/17 13:12	07/11/17 18:01	1

Client Sample ID: WINDROW1, SEC 2, A — Lab Sample ID: 180-68037-9

Date Collected: 07/10/17 14:45 — **Matrix: Solid**
Date Received: 07/11/17 08:30 — **Percent Solids: 87.5**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.023	0.0036	mg/Kg	☼	07/11/17 09:23	07/11/17 12:19	1
Benzene	ND		0.0057	0.0023	mg/Kg	☼	07/11/17 09:23	07/11/17 12:19	1
2-Butanone (MEK)	ND		0.0057	0.0033	mg/Kg	☼	07/11/17 09:23	07/11/17 12:19	1
Carbon tetrachloride	ND		0.0057	0.0038	mg/Kg	☼	07/11/17 09:23	07/11/17 12:19	1
Chlorobenzene	ND		0.0057	0.0018	mg/Kg	☼	07/11/17 09:23	07/11/17 12:19	1
Chloroform	ND		0.0057	0.0024	mg/Kg	☼	07/11/17 09:23	07/11/17 12:19	1
cis-1,2-Dichloroethene	ND		0.0057	0.0018	mg/Kg	☼	07/11/17 09:23	07/11/17 12:19	1
1,2-Dichlorobenzene	ND		0.0057	0.0046	mg/Kg	☼	07/11/17 09:23	07/11/17 12:19	1
1,3-Dichlorobenzene	ND		0.0057	0.0018	mg/Kg	☼	07/11/17 09:23	07/11/17 12:19	1
1,4-Dichlorobenzene	ND		0.0057	0.0012	mg/Kg	☼	07/11/17 09:23	07/11/17 12:19	1
1,1-Dichloroethane	ND		0.0057	0.0021	mg/Kg	☼	07/11/17 09:23	07/11/17 12:19	1
1,2-Dichloroethane	ND		0.0057	0.0017	mg/Kg	☼	07/11/17 09:23	07/11/17 12:19	1
1,1-Dichloroethene	ND		0.0057	0.0033	mg/Kg	☼	07/11/17 09:23	07/11/17 12:19	1
Ethylbenzene	ND		0.0057	0.0025	mg/Kg	☼	07/11/17 09:23	07/11/17 12:19	1
Methylene Chloride	ND		0.0057	0.0027	mg/Kg	☼	07/11/17 09:23	07/11/17 12:19	1
Methyl tert-butyl ether	ND		0.0057	0.0042	mg/Kg	☼	07/11/17 09:23	07/11/17 12:19	1
n-Butylbenzene	ND		0.0057	0.0044	mg/Kg	☼	07/11/17 09:23	07/11/17 12:19	1
N-Propylbenzene	ND		0.0057	0.0024	mg/Kg	☼	07/11/17 09:23	07/11/17 12:19	1
sec-Butylbenzene	ND		0.0057	0.0028	mg/Kg	☼	07/11/17 09:23	07/11/17 12:19	1
tert-Butylbenzene	ND		0.0057	0.0021	mg/Kg	☼	07/11/17 09:23	07/11/17 12:19	1
Tetrachloroethene	ND		0.0057	0.0023	mg/Kg	☼	07/11/17 09:23	07/11/17 12:19	1
Toluene	ND		0.0057	0.0019	mg/Kg	☼	07/11/17 09:23	07/11/17 12:19	1
trans-1,2-Dichloroethene	ND		0.0057	0.0029	mg/Kg	☼	07/11/17 09:23	07/11/17 12:19	1
1,1,1-Trichloroethane	ND		0.0057	0.0029	mg/Kg	☼	07/11/17 09:23	07/11/17 12:19	1
Trichloroethene	ND		0.0057	0.0017	mg/Kg	☼	07/11/17 09:23	07/11/17 12:19	1
1,2,4-Trimethylbenzene	ND		0.0057	0.0015	mg/Kg	☼	07/11/17 09:23	07/11/17 12:19	1
1,3,5-Trimethylbenzene	ND		0.0057	0.0020	mg/Kg	☼	07/11/17 09:23	07/11/17 12:19	1
Vinyl chloride	ND		0.0057	0.0042	mg/Kg	☼	07/11/17 09:23	07/11/17 12:19	1
Xylenes, Total	ND		0.011	0.0049	mg/Kg	☼	07/11/17 09:23	07/11/17 12:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*63 - 120*	*07/11/17 09:23*	*07/11/17 12:19*	*1*
Dibromofluoromethane (Surr)	*91*		*68 - 121*	*07/11/17 09:23*	*07/11/17 12:19*	*1*
1,2-Dichloroethane-d4 (Surr)	*84*		*52 - 124*	*07/11/17 09:23*	*07/11/17 12:19*	*1*
Toluene-d8 (Surr)	*116*		*72 - 127*	*07/11/17 09:23*	*07/11/17 12:19*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**12.5**		0.1	0.1	%			07/12/17 12:23	1
Percent Solids	**87.5**		0.1	0.1	%			07/12/17 12:23	1

Client Sample ID: WINDROW1, SEC 1, A — Lab Sample ID: 180-68037-10

Date Collected: 07/10/17 14:20 — **Matrix: Solid**
Date Received: 07/11/17 08:30 — **Percent Solids: 93.5**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.023	0.0036	mg/Kg	☼	07/11/17 09:23	07/11/17 12:41	1
Benzene	ND		0.0056	0.0022	mg/Kg	☼	07/11/17 09:23	07/11/17 12:41	1
2-Butanone (MEK)	ND		0.0056	0.0033	mg/Kg	☼	07/11/17 09:23	07/11/17 12:41	1

Client Sample ID: WINDROW1, SEC 1, A

Lab Sample ID: 180-68037-10
Date Collected: 07/10/17 14:20
Matrix: Solid
Date Received: 07/11/17 08:30
Percent Solids: 93.5

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	ND		0.0056	0.0037	mg/Kg	☼	07/11/17 09:23	07/11/17 12:41	1
Chlorobenzene	ND		0.0056	0.0018	mg/Kg	☼	07/11/17 09:23	07/11/17 12:41	1
Chloroform	ND		0.0056	0.0024	mg/Kg	☼	07/11/17 09:23	07/11/17 12:41	1
cis-1,2-Dichloroethene	ND		0.0056	0.0018	mg/Kg	☼	07/11/17 09:23	07/11/17 12:41	1
1,2-Dichlorobenzene	ND		0.0056	0.0045	mg/Kg	☼	07/11/17 09:23	07/11/17 12:41	1
1,3-Dichlorobenzene	ND		0.0056	0.0018	mg/Kg	☼	07/11/17 09:23	07/11/17 12:41	1
1,4-Dichlorobenzene	ND		0.0056	0.0012	mg/Kg	☼	07/11/17 09:23	07/11/17 12:41	1
1,1-Dichloroethane	ND		0.0056	0.0020	mg/Kg	☼	07/11/17 09:23	07/11/17 12:41	1
1,2-Dichloroethane	ND		0.0056	0.0016	mg/Kg	☼	07/11/17 09:23	07/11/17 12:41	1
1,1-Dichloroethene	ND		0.0056	0.0032	mg/Kg	☼	07/11/17 09:23	07/11/17 12:41	1
Ethylbenzene	ND		0.0056	0.0024	mg/Kg	☼	07/11/17 09:23	07/11/17 12:41	1
Methylene Chloride	ND		0.0056	0.0027	mg/Kg	☼	07/11/17 09:23	07/11/17 12:41	1
Methyl tert-butyl ether	ND		0.0056	0.0042	mg/Kg	☼	07/11/17 09:23	07/11/17 12:41	1
n-Butylbenzene	ND		0.0056	0.0043	mg/Kg	☼	07/11/17 09:23	07/11/17 12:41	1
N-Propylbenzene	ND		0.0056	0.0024	mg/Kg	☼	07/11/17 09:23	07/11/17 12:41	1
sec-Butylbenzene	ND		0.0056	0.0028	mg/Kg	☼	07/11/17 09:23	07/11/17 12:41	1
tert-Butylbenzene	ND		0.0056	0.0021	mg/Kg	☼	07/11/17 09:23	07/11/17 12:41	1
Tetrachloroethene	ND		0.0056	0.0023	mg/Kg	☼	07/11/17 09:23	07/11/17 12:41	1
Toluene	ND		0.0056	0.0019	mg/Kg	☼	07/11/17 09:23	07/11/17 12:41	1
trans-1,2-Dichloroethene	ND		0.0056	0.0029	mg/Kg	☼	07/11/17 09:23	07/11/17 12:41	1
1,1,1-Trichloroethane	ND		0.0056	0.0028	mg/Kg	☼	07/11/17 09:23	07/11/17 12:41	1
Trichloroethene	ND		0.0056	0.0017	mg/Kg	☼	07/11/17 09:23	07/11/17 12:41	1
1,2,4-Trimethylbenzene	ND		0.0056	0.0015	mg/Kg	☼	07/11/17 09:23	07/11/17 12:41	1
1,3,5-Trimethylbenzene	ND		0.0056	0.0019	mg/Kg	☼	07/11/17 09:23	07/11/17 12:41	1
Vinyl chloride	ND		0.0056	0.0041	mg/Kg	☼	07/11/17 09:23	07/11/17 12:41	1
Xylenes, Total	ND		0.011	0.0049	mg/Kg	☼	07/11/17 09:23	07/11/17 12:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*63 - 120*	*07/11/17 09:23*	*07/11/17 12:41*	*1*
Dibromofluoromethane (Surr)	*96*		*68 - 121*	*07/11/17 09:23*	*07/11/17 12:41*	*1*
1,2-Dichloroethane-d4 (Surr)	*87*		*52 - 124*	*07/11/17 09:23*	*07/11/17 12:41*	*1*
Toluene-d8 (Surr)	*117*		*72 - 127*	*07/11/17 09:23*	*07/11/17 12:41*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**6.5**		0.1	0.1	%			07/11/17 11:08	1
Percent Solids	**93.5**		0.1	0.1	%			07/11/17 11:08	1

Client Sample ID: WINDROW1, SEC 1, C

Lab Sample ID: 180-68037-11
Date Collected: 07/10/17 14:30
Matrix: Solid
Date Received: 07/11/17 08:30
Percent Solids: 90.6

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.074	0.025	mg/Kg	☼	07/11/17 10:03	07/11/17 22:41	10
Acenaphthylene	**0.28**		0.074	0.025	mg/Kg	☼	07/11/17 10:03	07/11/17 22:41	10
Anthracene	**0.18**		0.074	0.027	mg/Kg	☼	07/11/17 10:03	07/11/17 22:41	10
Benzo[a]anthracene	**0.39**		0.074	0.029	mg/Kg	☼	07/11/17 10:03	07/11/17 22:41	10
Benzo[a]pyrene	**0.39**		0.074	0.030	mg/Kg	☼	07/11/17 10:03	07/11/17 22:41	10
Benzo[b]fluoranthene	**0.48**		0.074	0.032	mg/Kg	☼	07/11/17 10:03	07/11/17 22:41	10

Client Sample ID: WINDROW1, SEC 1, C **Lab Sample ID: 180-68037-11**
Date Collected: 07/10/17 14:30 **Matrix: Solid**
Date Received: 07/11/17 08:30 **Percent Solids: 90.6**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	**0.36**		0.074	0.032	mg/Kg	☼	07/11/17 10:03	07/11/17 22:41	10
Benzo[k]fluoranthene	**0.18**		0.074	0.025	mg/Kg	☼	07/11/17 10:03	07/11/17 22:41	10
Chrysene	**0.44**		0.074	0.029	mg/Kg	☼	07/11/17 10:03	07/11/17 22:41	10
Dibenz(a,h)anthracene	**0.089**		0.074	0.030	mg/Kg	☼	07/11/17 10:03	07/11/17 22:41	10
Dibenzofuran	ND		0.36	0.029	mg/Kg	☼	07/11/17 10:03	07/11/17 22:41	10
1,4-Dioxane	ND		0.74	0.055	mg/Kg	☼	07/11/17 10:03	07/11/17 22:41	10
Fluoranthene	**0.42**		0.074	0.029	mg/Kg	☼	07/11/17 10:03	07/11/17 22:41	10
Fluorene	**0.036**	**J**	0.074	0.026	mg/Kg	☼	07/11/17 10:03	07/11/17 22:41	10
Hexachlorobenzene	ND		0.074	0.030	mg/Kg	☼	07/11/17 10:03	07/11/17 22:41	10
Indeno[1,2,3-cd]pyrene	**0.29**		0.074	0.028	mg/Kg	☼	07/11/17 10:03	07/11/17 22:41	10
2-Methylphenol	ND		0.36	0.033	mg/Kg	☼	07/11/17 10:03	07/11/17 22:41	10
Methylphenol, 3 & 4	ND		0.36	0.033	mg/Kg	☼	07/11/17 10:03	07/11/17 22:41	10
Naphthalene	**0.098**		0.074	0.026	mg/Kg	☼	07/11/17 10:03	07/11/17 22:41	10
Pentachlorophenol	ND		1.9	0.70	mg/Kg	☼	07/11/17 10:03	07/11/17 22:41	10
Phenanthrene	**0.26**		0.074	0.031	mg/Kg	☼	07/11/17 10:03	07/11/17 22:41	10
Phenol	ND		0.36	0.050	mg/Kg	☼	07/11/17 10:03	07/11/17 22:41	10
Pyrene	**0.64**		0.074	0.033	mg/Kg	☼	07/11/17 10:03	07/11/17 22:41	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*53*		*42 - 100*	*07/11/17 10:03*	*07/11/17 22:41*	*10*
2-Fluorophenol (Surr)	*54*		*21 - 107*	*07/11/17 10:03*	*07/11/17 22:41*	*10*
Nitrobenzene-d5 (Surr)	*63*		*35 - 109*	*07/11/17 10:03*	*07/11/17 22:41*	*10*
Phenol-d5 (Surr)	*57*		*29 - 105*	*07/11/17 10:03*	*07/11/17 22:41*	*10*
Terphenyl-d14 (Surr)	*61*		*36 - 113*	*07/11/17 10:03*	*07/11/17 22:41*	*10*
2,4,6-Tribromophenol (Surr)	*61*		*20 - 134*	*07/11/17 10:03*	*07/11/17 22:41*	*10*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.018	0.0098	mg/Kg	☼	07/11/17 09:59	07/12/17 01:01	1
PCB-1221	ND		0.018	0.0095	mg/Kg	☼	07/11/17 09:59	07/12/17 01:01	1
PCB-1232	ND		0.018	0.0073	mg/Kg	☼	07/11/17 09:59	07/12/17 01:01	1
PCB-1242	ND		0.018	0.015	mg/Kg	☼	07/11/17 09:59	07/12/17 01:01	1
PCB-1248	**1.3**		0.018	0.0088	mg/Kg	☼	07/11/17 09:59	07/12/17 01:01	1
PCB-1254	**0.82**		0.018	0.0081	mg/Kg	☼	07/11/17 09:59	07/12/17 01:01	1
PCB-1260	**0.22**		0.018	0.012	mg/Kg	☼	07/11/17 09:59	07/12/17 01:01	1
PCB-1262	ND		0.018	0.013	mg/Kg	☼	07/11/17 09:59	07/12/17 01:01	1
PCB-1268	ND		0.018	0.0056	mg/Kg	☼	07/11/17 09:59	07/12/17 01:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*67*		*23 - 150*	*07/11/17 09:59*	*07/12/17 01:01*	*1*
DCB Decachlorobiphenyl (Surr)	*72*		*23 - 150*	*07/11/17 09:59*	*07/12/17 01:01*	*1*
Tetrachloro-m-xylene (Surr)	*74*		*27 - 138*	*07/11/17 09:59*	*07/12/17 01:01*	*1*
Tetrachloro-m-xylene (Surr)	*68*		*27 - 138*	*07/11/17 09:59*	*07/12/17 01:01*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**6.5**		1.1	0.49	mg/Kg	☼	07/12/17 11:52	07/13/17 14:56	1
Barium	**76**		22	5.9	mg/Kg	☼	07/12/17 11:52	07/13/17 14:56	1
Beryllium	**0.36**	**J**	0.44	0.12	mg/Kg	☼	07/12/17 11:52	07/13/17 14:56	1
Cadmium	**0.15**	**J**	0.55	0.12	mg/Kg	☼	07/12/17 11:52	07/13/17 14:56	1

Client Sample ID: WINDROW1, SEC 1, C — Lab Sample ID: 180-68037-11

Date Collected: 07/10/17 14:30 — **Matrix: Solid**
Date Received: 07/11/17 08:30 — **Percent Solids: 90.6**

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	**9.6**		0.55	0.14	mg/Kg	☼	07/12/17 11:52	07/13/17 14:56	1
Copper	**21**		2.8	0.85	mg/Kg	☼	07/12/17 11:52	07/13/17 14:56	1
Lead	**31**		1.1	0.36	mg/Kg	☼	07/12/17 11:52	07/13/17 14:56	1
Manganese	**400**		1.7	0.45	mg/Kg	☼	07/12/17 11:52	07/13/17 14:56	1
Nickel	**19**		4.4	0.99	mg/Kg	☼	07/12/17 11:52	07/13/17 14:56	1
Selenium	ND		1.1	0.44	mg/Kg	☼	07/12/17 11:52	07/13/17 14:56	1
Silver	ND		0.55	0.18	mg/Kg	☼	07/12/17 11:52	07/13/17 14:56	1
Zinc	**66**		2.2	1.1	mg/Kg	☼	07/12/17 11:52	07/13/17 14:56	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.26**		0.037	0.0083	mg/Kg	☼	07/12/17 14:26	07/13/17 09:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.4**		0.1	0.1	%			07/11/17 11:08	1
Percent Solids	**90.6**		0.1	0.1	%			07/11/17 11:08	1
Cyanide, Total	ND		0.47	0.14	mg/Kg	☼	07/11/17 13:12	07/11/17 18:03	1

Client Sample ID: WINDROW1, SEC 4, A — Lab Sample ID: 180-68037-12

Date Collected: 07/10/17 16:30 — **Matrix: Solid**
Date Received: 07/11/17 08:30 — **Percent Solids: 86.9**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.020	0.0032	mg/Kg	☼	07/11/17 09:23	07/11/17 13:04	1
Benzene	ND		0.0051	0.0020	mg/Kg	☼	07/11/17 09:23	07/11/17 13:04	1
2-Butanone (MEK)	ND		0.0051	0.0030	mg/Kg	☼	07/11/17 09:23	07/11/17 13:04	1
Carbon tetrachloride	ND		0.0051	0.0034	mg/Kg	☼	07/11/17 09:23	07/11/17 13:04	1
Chlorobenzene	ND		0.0051	0.0016	mg/Kg	☼	07/11/17 09:23	07/11/17 13:04	1
Chloroform	ND		0.0051	0.0022	mg/Kg	☼	07/11/17 09:23	07/11/17 13:04	1
cis-1,2-Dichloroethene	ND		0.0051	0.0016	mg/Kg	☼	07/11/17 09:23	07/11/17 13:04	1
1,2-Dichlorobenzene	ND		0.0051	0.0041	mg/Kg	☼	07/11/17 09:23	07/11/17 13:04	1
1,3-Dichlorobenzene	ND		0.0051	0.0016	mg/Kg	☼	07/11/17 09:23	07/11/17 13:04	1
1,4-Dichlorobenzene	ND		0.0051	0.0010	mg/Kg	☼	07/11/17 09:23	07/11/17 13:04	1
1,1-Dichloroethane	ND		0.0051	0.0018	mg/Kg	☼	07/11/17 09:23	07/11/17 13:04	1
1,2-Dichloroethane	ND		0.0051	0.0015	mg/Kg	☼	07/11/17 09:23	07/11/17 13:04	1
1,1-Dichloroethene	ND		0.0051	0.0029	mg/Kg	☼	07/11/17 09:23	07/11/17 13:04	1
Ethylbenzene	ND		0.0051	0.0022	mg/Kg	☼	07/11/17 09:23	07/11/17 13:04	1
Methylene Chloride	ND		0.0051	0.0024	mg/Kg	☼	07/11/17 09:23	07/11/17 13:04	1
Methyl tert-butyl ether	ND		0.0051	0.0038	mg/Kg	☼	07/11/17 09:23	07/11/17 13:04	1
n-Butylbenzene	ND		0.0051	0.0039	mg/Kg	☼	07/11/17 09:23	07/11/17 13:04	1
N-Propylbenzene	ND		0.0051	0.0021	mg/Kg	☼	07/11/17 09:23	07/11/17 13:04	1
sec-Butylbenzene	ND		0.0051	0.0025	mg/Kg	☼	07/11/17 09:23	07/11/17 13:04	1
tert-Butylbenzene	ND		0.0051	0.0019	mg/Kg	☼	07/11/17 09:23	07/11/17 13:04	1
Tetrachloroethene	ND		0.0051	0.0020	mg/Kg	☼	07/11/17 09:23	07/11/17 13:04	1
Toluene	ND		0.0051	0.0017	mg/Kg	☼	07/11/17 09:23	07/11/17 13:04	1
trans-1,2-Dichloroethene	ND		0.0051	0.0026	mg/Kg	☼	07/11/17 09:23	07/11/17 13:04	1
1,1,1-Trichloroethane	ND		0.0051	0.0026	mg/Kg	☼	07/11/17 09:23	07/11/17 13:04	1
Trichloroethene	ND		0.0051	0.0015	mg/Kg	☼	07/11/17 09:23	07/11/17 13:04	1

Client Sample ID: WINDROW1, SEC 4, A — Lab Sample ID: 180-68037-12

Date Collected: 07/10/17 16:30 — **Matrix: Solid**
Date Received: 07/11/17 08:30 — **Percent Solids: 86.9**

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	ND		0.0051	0.0014	mg/Kg	☼	07/11/17 09:23	07/11/17 13:04	1
1,3,5-Trimethylbenzene	ND		0.0051	0.0018	mg/Kg	☼	07/11/17 09:23	07/11/17 13:04	1
Vinyl chloride	ND		0.0051	0.0037	mg/Kg	☼	07/11/17 09:23	07/11/17 13:04	1
Xylenes, Total	ND		0.010	0.0044	mg/Kg	☼	07/11/17 09:23	07/11/17 13:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*63 - 120*	*07/11/17 09:23*	*07/11/17 13:04*	*1*
Dibromofluoromethane (Surr)	*95*		*68 - 121*	*07/11/17 09:23*	*07/11/17 13:04*	*1*
1,2-Dichloroethane-d4 (Surr)	*88*		*52 - 124*	*07/11/17 09:23*	*07/11/17 13:04*	*1*
Toluene-d8 (Surr)	*117*		*72 - 127*	*07/11/17 09:23*	*07/11/17 13:04*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**13.1**		0.1	0.1	%			07/11/17 11:08	1
Percent Solids	**86.9**		0.1	0.1	%			07/11/17 11:08	1

Client Sample ID: WINDROW1, SEC 2, B — Lab Sample ID: 180-68037-13

Date Collected: 07/10/17 14:50 — **Matrix: Solid**
Date Received: 07/11/17 08:30 — **Percent Solids: 88.1**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.021	0.0032	mg/Kg	☼	07/11/17 09:23	07/11/17 13:26	1
Benzene	ND		0.0052	0.0020	mg/Kg	☼	07/11/17 09:23	07/11/17 13:26	1
2-Butanone (MEK)	ND		0.0052	0.0030	mg/Kg	☼	07/11/17 09:23	07/11/17 13:26	1
Carbon tetrachloride	ND		0.0052	0.0034	mg/Kg	☼	07/11/17 09:23	07/11/17 13:26	1
Chlorobenzene	ND		0.0052	0.0016	mg/Kg	☼	07/11/17 09:23	07/11/17 13:26	1
Chloroform	ND		0.0052	0.0022	mg/Kg	☼	07/11/17 09:23	07/11/17 13:26	1
cis-1,2-Dichloroethene	ND		0.0052	0.0016	mg/Kg	☼	07/11/17 09:23	07/11/17 13:26	1
1,2-Dichlorobenzene	ND		0.0052	0.0041	mg/Kg	☼	07/11/17 09:23	07/11/17 13:26	1
1,3-Dichlorobenzene	ND		0.0052	0.0016	mg/Kg	☼	07/11/17 09:23	07/11/17 13:26	1
1,4-Dichlorobenzene	ND		0.0052	0.0011	mg/Kg	☼	07/11/17 09:23	07/11/17 13:26	1
1,1-Dichloroethane	ND		0.0052	0.0019	mg/Kg	☼	07/11/17 09:23	07/11/17 13:26	1
1,2-Dichloroethane	ND		0.0052	0.0015	mg/Kg	☼	07/11/17 09:23	07/11/17 13:26	1
1,1-Dichloroethene	ND		0.0052	0.0029	mg/Kg	☼	07/11/17 09:23	07/11/17 13:26	1
Ethylbenzene	ND		0.0052	0.0022	mg/Kg	☼	07/11/17 09:23	07/11/17 13:26	1
Methylene Chloride	ND		0.0052	0.0024	mg/Kg	☼	07/11/17 09:23	07/11/17 13:26	1
Methyl tert-butyl ether	ND		0.0052	0.0038	mg/Kg	☼	07/11/17 09:23	07/11/17 13:26	1
n-Butylbenzene	ND		0.0052	0.0039	mg/Kg	☼	07/11/17 09:23	07/11/17 13:26	1
N-Propylbenzene	ND		0.0052	0.0022	mg/Kg	☼	07/11/17 09:23	07/11/17 13:26	1
sec-Butylbenzene	ND		0.0052	0.0025	mg/Kg	☼	07/11/17 09:23	07/11/17 13:26	1
tert-Butylbenzene	ND		0.0052	0.0019	mg/Kg	☼	07/11/17 09:23	07/11/17 13:26	1
Tetrachloroethene	ND		0.0052	0.0021	mg/Kg	☼	07/11/17 09:23	07/11/17 13:26	1
Toluene	ND		0.0052	0.0017	mg/Kg	☼	07/11/17 09:23	07/11/17 13:26	1
trans-1,2-Dichloroethene	ND		0.0052	0.0026	mg/Kg	☼	07/11/17 09:23	07/11/17 13:26	1
1,1,1-Trichloroethane	ND		0.0052	0.0026	mg/Kg	☼	07/11/17 09:23	07/11/17 13:26	1
Trichloroethene	ND		0.0052	0.0015	mg/Kg	☼	07/11/17 09:23	07/11/17 13:26	1
1,2,4-Trimethylbenzene	ND		0.0052	0.0014	mg/Kg	☼	07/11/17 09:23	07/11/17 13:26	1
1,3,5-Trimethylbenzene	ND		0.0052	0.0018	mg/Kg	☼	07/11/17 09:23	07/11/17 13:26	1
Vinyl chloride	ND		0.0052	0.0038	mg/Kg	☼	07/11/17 09:23	07/11/17 13:26	1

Client Sample ID: WINDROW1, SEC 2, B — Lab Sample ID: 180-68037-13

Date Collected: 07/10/17 14:50 — **Matrix: Solid**
Date Received: 07/11/17 08:30 — **Percent Solids: 88.1**

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	ND		0.010	0.0044	mg/Kg	☼	07/11/17 09:23	07/11/17 13:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*63 - 120*	*07/11/17 09:23*	*07/11/17 13:26*	*1*
Dibromofluoromethane (Surr)	*97*		*68 - 121*	*07/11/17 09:23*	*07/11/17 13:26*	*1*
1,2-Dichloroethane-d4 (Surr)	*89*		*52 - 124*	*07/11/17 09:23*	*07/11/17 13:26*	*1*
Toluene-d8 (Surr)	*119*		*72 - 127*	*07/11/17 09:23*	*07/11/17 13:26*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**11.9**		0.1	0.1	%			07/11/17 11:08	1
Percent Solids	**88.1**		0.1	0.1	%			07/11/17 11:08	1

Client Sample ID: WINDROW1, SEC 1, B — Lab Sample ID: 180-68037-14

Date Collected: 07/10/17 14:25 — **Matrix: Solid**
Date Received: 07/11/17 08:30 — **Percent Solids: 91.3**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.019	0.0031	mg/Kg	☼	07/11/17 09:23	07/11/17 13:49	1
Benzene	ND		0.0049	0.0019	mg/Kg	☼	07/11/17 09:23	07/11/17 13:49	1
2-Butanone (MEK)	ND		0.0049	0.0028	mg/Kg	☼	07/11/17 09:23	07/11/17 13:49	1
Carbon tetrachloride	ND		0.0049	0.0032	mg/Kg	☼	07/11/17 09:23	07/11/17 13:49	1
Chlorobenzene	ND		0.0049	0.0015	mg/Kg	☼	07/11/17 09:23	07/11/17 13:49	1
Chloroform	ND		0.0049	0.0021	mg/Kg	☼	07/11/17 09:23	07/11/17 13:49	1
cis-1,2-Dichloroethene	ND		0.0049	0.0015	mg/Kg	☼	07/11/17 09:23	07/11/17 13:49	1
1,2-Dichlorobenzene	ND		0.0049	0.0039	mg/Kg	☼	07/11/17 09:23	07/11/17 13:49	1
1,3-Dichlorobenzene	ND		0.0049	0.0016	mg/Kg	☼	07/11/17 09:23	07/11/17 13:49	1
1,4-Dichlorobenzene	ND		0.0049	0.00099	mg/Kg	☼	07/11/17 09:23	07/11/17 13:49	1
1,1-Dichloroethane	ND		0.0049	0.0018	mg/Kg	☼	07/11/17 09:23	07/11/17 13:49	1
1,2-Dichloroethane	ND		0.0049	0.0014	mg/Kg	☼	07/11/17 09:23	07/11/17 13:49	1
1,1-Dichloroethene	ND		0.0049	0.0028	mg/Kg	☼	07/11/17 09:23	07/11/17 13:49	1
Ethylbenzene	ND		0.0049	0.0021	mg/Kg	☼	07/11/17 09:23	07/11/17 13:49	1
Methylene Chloride	ND		0.0049	0.0023	mg/Kg	☼	07/11/17 09:23	07/11/17 13:49	1
Methyl tert-butyl ether	ND		0.0049	0.0036	mg/Kg	☼	07/11/17 09:23	07/11/17 13:49	1
n-Butylbenzene	ND		0.0049	0.0037	mg/Kg	☼	07/11/17 09:23	07/11/17 13:49	1
N-Propylbenzene	ND		0.0049	0.0021	mg/Kg	☼	07/11/17 09:23	07/11/17 13:49	1
sec-Butylbenzene	ND		0.0049	0.0024	mg/Kg	☼	07/11/17 09:23	07/11/17 13:49	1
tert-Butylbenzene	ND		0.0049	0.0018	mg/Kg	☼	07/11/17 09:23	07/11/17 13:49	1
Tetrachloroethene	ND		0.0049	0.0019	mg/Kg	☼	07/11/17 09:23	07/11/17 13:49	1
Toluene	ND		0.0049	0.0016	mg/Kg	☼	07/11/17 09:23	07/11/17 13:49	1
trans-1,2-Dichloroethene	ND		0.0049	0.0025	mg/Kg	☼	07/11/17 09:23	07/11/17 13:49	1
1,1,1-Trichloroethane	ND		0.0049	0.0024	mg/Kg	☼	07/11/17 09:23	07/11/17 13:49	1
Trichloroethene	ND		0.0049	0.0015	mg/Kg	☼	07/11/17 09:23	07/11/17 13:49	1
1,2,4-Trimethylbenzene	ND		0.0049	0.0013	mg/Kg	☼	07/11/17 09:23	07/11/17 13:49	1
1,3,5-Trimethylbenzene	ND		0.0049	0.0017	mg/Kg	☼	07/11/17 09:23	07/11/17 13:49	1
Vinyl chloride	ND		0.0049	0.0036	mg/Kg	☼	07/11/17 09:23	07/11/17 13:49	1
Xylenes, Total	ND		0.0097	0.0042	mg/Kg	☼	07/11/17 09:23	07/11/17 13:49	1

Client Sample ID: WINDROW1, SEC 1, B
Date Collected: 07/10/17 14:25
Date Received: 07/11/17 08:30

Lab Sample ID: 180-68037-14
Matrix: Solid
Percent Solids: 91.3

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*63 - 120*	*07/11/17 09:23*	*07/11/17 13:49*	*1*
Dibromofluoromethane (Surr)	*94*		*68 - 121*	*07/11/17 09:23*	*07/11/17 13:49*	*1*
1,2-Dichloroethane-d4 (Surr)	*85*		*52 - 124*	*07/11/17 09:23*	*07/11/17 13:49*	*1*
Toluene-d8 (Surr)	*114*		*72 - 127*	*07/11/17 09:23*	*07/11/17 13:49*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**8.7**		0.1	0.1	%			07/11/17 11:08	1
Percent Solids	**91.3**		0.1	0.1	%			07/11/17 11:08	1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 180-216673/1-A
Matrix: Solid
Analysis Batch: 216640

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 216673

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.020	0.0032	mg/Kg		07/11/17 06:21	07/11/17 09:22	1
Benzene	ND		0.0050	0.0020	mg/Kg		07/11/17 06:21	07/11/17 09:22	1
2-Butanone (MEK)	ND		0.0050	0.0029	mg/Kg		07/11/17 06:21	07/11/17 09:22	1
Carbon tetrachloride	ND		0.0050	0.0033	mg/Kg		07/11/17 06:21	07/11/17 09:22	1
Chlorobenzene	ND		0.0050	0.0016	mg/Kg		07/11/17 06:21	07/11/17 09:22	1
Chloroform	ND		0.0050	0.0021	mg/Kg		07/11/17 06:21	07/11/17 09:22	1
cis-1,2-Dichloroethene	ND		0.0050	0.0016	mg/Kg		07/11/17 06:21	07/11/17 09:22	1
1,2-Dichlorobenzene	ND		0.0050	0.0040	mg/Kg		07/11/17 06:21	07/11/17 09:22	1
1,3-Dichlorobenzene	ND		0.0050	0.0016	mg/Kg		07/11/17 06:21	07/11/17 09:22	1
1,4-Dichlorobenzene	ND		0.0050	0.0010	mg/Kg		07/11/17 06:21	07/11/17 09:22	1
1,1-Dichloroethane	ND		0.0050	0.0018	mg/Kg		07/11/17 06:21	07/11/17 09:22	1
1,2-Dichloroethane	ND		0.0050	0.0015	mg/Kg		07/11/17 06:21	07/11/17 09:22	1
1,1-Dichloroethene	ND		0.0050	0.0029	mg/Kg		07/11/17 06:21	07/11/17 09:22	1
Ethylbenzene	ND		0.0050	0.0022	mg/Kg		07/11/17 06:21	07/11/17 09:22	1
Methylene Chloride	ND		0.0050	0.0024	mg/Kg		07/11/17 06:21	07/11/17 09:22	1
Methyl tert-butyl ether	ND		0.0050	0.0037	mg/Kg		07/11/17 06:21	07/11/17 09:22	1
n-Butylbenzene	ND		0.0050	0.0038	mg/Kg		07/11/17 06:21	07/11/17 09:22	1
N-Propylbenzene	ND		0.0050	0.0021	mg/Kg		07/11/17 06:21	07/11/17 09:22	1
sec-Butylbenzene	ND		0.0050	0.0024	mg/Kg		07/11/17 06:21	07/11/17 09:22	1
tert-Butylbenzene	ND		0.0050	0.0018	mg/Kg		07/11/17 06:21	07/11/17 09:22	1
Tetrachloroethene	ND		0.0050	0.0020	mg/Kg		07/11/17 06:21	07/11/17 09:22	1
Toluene	ND		0.0050	0.0017	mg/Kg		07/11/17 06:21	07/11/17 09:22	1
trans-1,2-Dichloroethene	ND		0.0050	0.0025	mg/Kg		07/11/17 06:21	07/11/17 09:22	1
1,1,1-Trichloroethane	ND		0.0050	0.0025	mg/Kg		07/11/17 06:21	07/11/17 09:22	1
Trichloroethene	ND		0.0050	0.0015	mg/Kg		07/11/17 06:21	07/11/17 09:22	1
1,2,4-Trimethylbenzene	ND		0.0050	0.0013	mg/Kg		07/11/17 06:21	07/11/17 09:22	1
1,3,5-Trimethylbenzene	ND		0.0050	0.0017	mg/Kg		07/11/17 06:21	07/11/17 09:22	1
Vinyl chloride	ND		0.0050	0.0037	mg/Kg		07/11/17 06:21	07/11/17 09:22	1
Xylenes, Total	ND		0.010	0.0043	mg/Kg		07/11/17 06:21	07/11/17 09:22	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*63 - 120*	*07/11/17 06:21*	*07/11/17 09:22*	*1*
Dibromofluoromethane (Surr)	*99*		*68 - 121*	*07/11/17 06:21*	*07/11/17 09:22*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*52 - 124*	*07/11/17 06:21*	*07/11/17 09:22*	*1*
Toluene-d8 (Surr)	*111*		*72 - 127*	*07/11/17 06:21*	*07/11/17 09:22*	*1*

Lab Sample ID: LCS 180-216673/2-A
Matrix: Solid
Analysis Batch: 216640

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 216673

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0400	0.0412		mg/Kg		103	20 - 150
Benzene	0.0400	0.0396		mg/Kg		99	77 - 120
2-Butanone (MEK)	0.0400	0.0378		mg/Kg		94	35 - 149
Carbon tetrachloride	0.0400	0.0339		mg/Kg		85	69 - 122
Chlorobenzene	0.0400	0.0376		mg/Kg		94	79 - 120
Chloroform	0.0400	0.0370		mg/Kg		93	72 - 120
cis-1,2-Dichloroethene	0.0400	0.0366		mg/Kg		92	80 - 118

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 180-216673/2-A
Matrix: Solid
Analysis Batch: 216640

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 216673

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichlorobenzene	0.0400	0.0372		mg/Kg		93	71 - 124
1,3-Dichlorobenzene	0.0400	0.0379		mg/Kg		95	75 - 118
1,4-Dichlorobenzene	0.0400	0.0380		mg/Kg		95	77 - 116
1,1-Dichloroethane	0.0400	0.0412		mg/Kg		103	66 - 124
1,2-Dichloroethane	0.0400	0.0355		mg/Kg		89	61 - 127
1,1-Dichloroethene	0.0400	0.0410		mg/Kg		103	59 - 129
Ethylbenzene	0.0400	0.0367		mg/Kg		92	78 - 125
Methylene Chloride	0.0400	0.0371		mg/Kg		93	58 - 127
Methyl tert-butyl ether	0.0400	0.0377		mg/Kg		94	48 - 132
n-Butylbenzene	0.0400	0.0396		mg/Kg		99	59 - 145
N-Propylbenzene	0.0400	0.0344		mg/Kg		86	80 - 120
sec-Butylbenzene	0.0400	0.0401		mg/Kg		100	70 - 130
tert-Butylbenzene	0.0400	0.0369		mg/Kg		92	74 - 133
Tetrachloroethene	0.0400	0.0402		mg/Kg		101	78 - 129
Toluene	0.0400	0.0400		mg/Kg		100	78 - 124
trans-1,2-Dichloroethene	0.0400	0.0403		mg/Kg		101	77 - 121
1,1,1-Trichloroethane	0.0400	0.0372		mg/Kg		93	67 - 126
Trichloroethene	0.0400	0.0386		mg/Kg		97	76 - 119
1,2,4-Trimethylbenzene	0.0400	0.0374		mg/Kg		94	80 - 121
1,3,5-Trimethylbenzene	0.0400	0.0362		mg/Kg		90	68 - 133
Vinyl chloride	0.0400	0.0476		mg/Kg		119	63 - 124
Xylenes, Total	0.0800	0.0741		mg/Kg		93	83 - 126

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*95*		*63 - 120*
Dibromofluoromethane (Surr)	*101*		*68 - 121*
1,2-Dichloroethane-d4 (Surr)	*97*		*52 - 124*
Toluene-d8 (Surr)	*110*		*72 - 127*

Lab Sample ID: LCSD 180-216673/3-A
Matrix: Solid
Analysis Batch: 216640

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 216673

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	0.0400	0.0420		mg/Kg		105	20 - 150	2	40
Benzene	0.0400	0.0399		mg/Kg		100	77 - 120	1	20
2-Butanone (MEK)	0.0400	0.0416		mg/Kg		104	35 - 149	10	36
Carbon tetrachloride	0.0400	0.0356		mg/Kg		89	69 - 122	5	22
Chlorobenzene	0.0400	0.0374		mg/Kg		94	79 - 120	1	20
Chloroform	0.0400	0.0380		mg/Kg		95	72 - 120	3	25
cis-1,2-Dichloroethene	0.0400	0.0385		mg/Kg		96	80 - 118	5	20
1,2-Dichlorobenzene	0.0400	0.0394		mg/Kg		99	71 - 124	6	22
1,3-Dichlorobenzene	0.0400	0.0386		mg/Kg		97	75 - 118	2	20
1,4-Dichlorobenzene	0.0400	0.0385		mg/Kg		96	77 - 116	1	20
1,1-Dichloroethane	0.0400	0.0420		mg/Kg		105	66 - 124	2	23
1,2-Dichloroethane	0.0400	0.0373		mg/Kg		93	61 - 127	5	23
1,1-Dichloroethene	0.0400	0.0400		mg/Kg		100	59 - 129	3	25
Ethylbenzene	0.0400	0.0360		mg/Kg		90	78 - 125	2	21

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 180-216673/3-A
Matrix: Solid
Analysis Batch: 216640

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 216673

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methylene Chloride			0.0400	0.0372		mg/Kg		93	58 - 127	0	28
Methyl tert-butyl ether			0.0400	0.0394		mg/Kg		98	48 - 132	4	36
n-Butylbenzene			0.0400	0.0393		mg/Kg		98	59 - 145	1	24
N-Propylbenzene			0.0400	0.0365		mg/Kg		91	80 - 120	6	20
sec-Butylbenzene			0.0400	0.0388		mg/Kg		97	70 - 130	3	21
tert-Butylbenzene			0.0400	0.0373		mg/Kg		93	74 - 133	1	22
Tetrachloroethene			0.0400	0.0390		mg/Kg		98	78 - 129	3	20
Toluene			0.0400	0.0383		mg/Kg		96	78 - 124	5	21
trans-1,2-Dichloroethene			0.0400	0.0401		mg/Kg		100	77 - 121	1	20
1,1,1-Trichloroethane			0.0400	0.0391		mg/Kg		98	67 - 126	5	31
Trichloroethene			0.0400	0.0380		mg/Kg		95	76 - 119	2	21
1,2,4-Trimethylbenzene			0.0400	0.0377		mg/Kg		94	80 - 121	1	20
1,3,5-Trimethylbenzene			0.0400	0.0377		mg/Kg		94	68 - 133	4	21
Vinyl chloride			0.0400	0.0480		mg/Kg		120	63 - 124	1	27
Xylenes, Total			0.0800	0.0697		mg/Kg		87	83 - 126	6	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*90*		*63 - 120*
Dibromofluoromethane (Surr)	*104*		*68 - 121*
1,2-Dichloroethane-d4 (Surr)	*100*		*52 - 124*
Toluene-d8 (Surr)	*107*		*72 - 127*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Lab Sample ID: MB 180-216675/1-A
Matrix: Solid
Analysis Batch: 216666

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 216675

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0067	0.0022	mg/Kg		07/11/17 10:03	07/11/17 14:14	1
Acenaphthylene	ND		0.0067	0.0023	mg/Kg		07/11/17 10:03	07/11/17 14:14	1
Anthracene	ND		0.0067	0.0025	mg/Kg		07/11/17 10:03	07/11/17 14:14	1
Benzo[a]anthracene	ND		0.0067	0.0026	mg/Kg		07/11/17 10:03	07/11/17 14:14	1
Benzo[a]pyrene	ND		0.0067	0.0028	mg/Kg		07/11/17 10:03	07/11/17 14:14	1
Benzo[b]fluoranthene	ND		0.0067	0.0029	mg/Kg		07/11/17 10:03	07/11/17 14:14	1
Benzo[g,h,i]perylene	ND		0.0067	0.0029	mg/Kg		07/11/17 10:03	07/11/17 14:14	1
Benzo[k]fluoranthene	ND		0.0067	0.0023	mg/Kg		07/11/17 10:03	07/11/17 14:14	1
Chrysene	ND		0.0067	0.0026	mg/Kg		07/11/17 10:03	07/11/17 14:14	1
Dibenz(a,h)anthracene	ND		0.0067	0.0028	mg/Kg		07/11/17 10:03	07/11/17 14:14	1
Dibenzofuran	ND		0.033	0.0027	mg/Kg		07/11/17 10:03	07/11/17 14:14	1
1,4-Dioxane	ND		0.067	0.0050	mg/Kg		07/11/17 10:03	07/11/17 14:14	1
Fluoranthene	ND		0.0067	0.0026	mg/Kg		07/11/17 10:03	07/11/17 14:14	1
Fluorene	ND		0.0067	0.0024	mg/Kg		07/11/17 10:03	07/11/17 14:14	1
Hexachlorobenzene	ND		0.0067	0.0027	mg/Kg		07/11/17 10:03	07/11/17 14:14	1
Indeno[1,2,3-cd]pyrene	ND		0.0067	0.0026	mg/Kg		07/11/17 10:03	07/11/17 14:14	1
2-Methylphenol	ND		0.033	0.0029	mg/Kg		07/11/17 10:03	07/11/17 14:14	1
Methylphenol, 3 & 4	ND		0.033	0.0030	mg/Kg		07/11/17 10:03	07/11/17 14:14	1
Naphthalene	ND		0.0067	0.0024	mg/Kg		07/11/17 10:03	07/11/17 14:14	1

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: MB 180-216675/1-A
Matrix: Solid
Analysis Batch: 216666

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 216675

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND		0.17	0.063	mg/Kg		07/11/17 10:03	07/11/17 14:14	1
Phenanthrene	ND		0.0067	0.0028	mg/Kg		07/11/17 10:03	07/11/17 14:14	1
Phenol	ND		0.033	0.0045	mg/Kg		07/11/17 10:03	07/11/17 14:14	1
Pyrene	ND		0.0067	0.0030	mg/Kg		07/11/17 10:03	07/11/17 14:14	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*64*		*42 - 100*	*07/11/17 10:03*	*07/11/17 14:14*	*1*
2-Fluorophenol (Surr)	*69*		*21 - 107*	*07/11/17 10:03*	*07/11/17 14:14*	*1*
Nitrobenzene-d5 (Surr)	*75*		*35 - 109*	*07/11/17 10:03*	*07/11/17 14:14*	*1*
Phenol-d5 (Surr)	*71*		*29 - 105*	*07/11/17 10:03*	*07/11/17 14:14*	*1*
Terphenyl-d14 (Surr)	*73*		*36 - 113*	*07/11/17 10:03*	*07/11/17 14:14*	*1*
2,4,6-Tribromophenol (Surr)	*60*		*20 - 134*	*07/11/17 10:03*	*07/11/17 14:14*	*1*

Lab Sample ID: LCS 180-216675/2-A
Matrix: Solid
Analysis Batch: 216666

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 216675

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	0.667	0.469		mg/Kg		70	39 - 100
Acenaphthylene	0.667	0.485		mg/Kg		73	42 - 100
Anthracene	0.667	0.525		mg/Kg		79	43 - 100
Benzo[a]anthracene	0.667	0.492		mg/Kg		74	43 - 100
Benzo[a]pyrene	0.667	0.499		mg/Kg		75	43 - 100
Benzo[b]fluoranthene	0.667	0.478		mg/Kg		72	40 - 100
Benzo[g,h,i]perylene	0.667	0.498		mg/Kg		75	41 - 102
Benzo[k]fluoranthene	0.667	0.522		mg/Kg		78	44 - 100
Chrysene	0.667	0.478		mg/Kg		72	44 - 100
Dibenz(a,h)anthracene	0.667	0.508		mg/Kg		76	40 - 104
Dibenzofuran	0.667	0.476		mg/Kg		71	42 - 100
1,4-Dioxane	0.667	0.524		mg/Kg		79	19 - 107
Fluoranthene	0.667	0.489		mg/Kg		73	41 - 104
Fluorene	0.667	0.465		mg/Kg		70	41 - 100
Hexachlorobenzene	0.667	0.485		mg/Kg		73	43 - 100
Indeno[1,2,3-cd]pyrene	0.667	0.503		mg/Kg		75	41 - 104
2-Methylphenol	0.667	0.508		mg/Kg		76	38 - 100
Methylphenol, 3 & 4	0.667	0.504		mg/Kg		76	40 - 100
Naphthalene	0.667	0.509		mg/Kg		76	38 - 100
Pentachlorophenol	1.33	1.02		mg/Kg		77	34 - 102
Phenanthrene	0.667	0.534		mg/Kg		80	41 - 100
Phenol	0.667	0.522		mg/Kg		78	36 - 100
Pyrene	0.667	0.515		mg/Kg		77	42 - 100

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*58*		*42 - 100*
2-Fluorophenol (Surr)	*66*		*21 - 107*
Nitrobenzene-d5 (Surr)	*71*		*35 - 109*
Phenol-d5 (Surr)	*69*		*29 - 105*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCS 180-216675/2-A
Matrix: Solid
Analysis Batch: 216666

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 216675

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Terphenyl-d14 (Surr)	*67*		*36 - 113*
2,4,6-Tribromophenol (Surr)	*62*		*20 - 134*

Lab Sample ID: 180-68037-1 MS
Matrix: Solid
Analysis Batch: 216666

Client Sample ID: DUP2
Prep Type: Total/NA
Prep Batch: 216675

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	ND		0.753	0.661		mg/Kg	☼	88	39 - 100
Acenaphthylene	0.46		0.753	0.944		mg/Kg	☼	64	42 - 100
Anthracene	0.22	F1	0.753	0.978	F1	mg/Kg	☼	101	43 - 100
Benzo[a]anthracene	0.53		0.753	1.20		mg/Kg	☼	89	43 - 100
Benzo[a]pyrene	0.66		0.753	1.18		mg/Kg	☼	69	43 - 100
Benzo[b]fluoranthene	0.67		0.753	1.20		mg/Kg	☼	71	40 - 100
Benzo[g,h,i]perylene	0.55		0.753	1.17		mg/Kg	☼	81	41 - 102
Benzo[k]fluoranthene	0.23	F1	0.753	0.951		mg/Kg	☼	96	44 - 100
Chrysene	0.60		0.753	1.13		mg/Kg	☼	70	44 - 100
Dibenz(a,h)anthracene	0.13		0.753	0.772		mg/Kg	☼	85	40 - 104
Dibenzofuran	ND	F1	0.753	0.707		mg/Kg	☼	94	42 - 100
1,4-Dioxane	ND		0.753	0.511	J	mg/Kg	☼	68	19 - 107
Fluoranthene	0.45	F1	0.753	1.44	F1	mg/Kg	☼	130	41 - 104
Fluorene	0.055	J	0.753	0.728		mg/Kg	☼	89	41 - 100
Hexachlorobenzene	ND		0.753	0.639		mg/Kg	☼	85	43 - 100
Indeno[1,2,3-cd]pyrene	0.39		0.753	1.05		mg/Kg	☼	87	41 - 104
2-Methylphenol	ND		0.753	0.632		mg/Kg	☼	84	38 - 100
Methylphenol, 3 & 4	ND		0.753	0.661		mg/Kg	☼	88	40 - 100
Naphthalene	0.098		0.753	0.803		mg/Kg	☼	94	38 - 100
Pentachlorophenol	ND		1.51	1.08	J	mg/Kg	☼	72	34 - 102
Phenanthrene	0.21	F1	0.753	1.42	F1	mg/Kg	☼	161	41 - 100
Phenol	ND		0.753	0.615		mg/Kg	☼	82	36 - 100
Pyrene	0.81	F1	0.753	1.69	F1	mg/Kg	☼	117	42 - 100

Surrogate	MS %Recovery	MS Qualifier	Limits
2-Fluorobiphenyl	*51*		*42 - 100*
2-Fluorophenol (Surr)	*51*		*21 - 107*
Nitrobenzene-d5 (Surr)	*60*		*35 - 109*
Phenol-d5 (Surr)	*55*		*29 - 105*
Terphenyl-d14 (Surr)	*57*		*36 - 113*
2,4,6-Tribromophenol (Surr)	*54*		*20 - 134*

Lab Sample ID: 180-68037-1 MSD
Matrix: Solid
Analysis Batch: 216666

Client Sample ID: DUP2
Prep Type: Total/NA
Prep Batch: 216675

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	ND		0.753	0.700		mg/Kg	☼	93	39 - 100	6	20
Acenaphthylene	0.46		0.753	1.01		mg/Kg	☼	73	42 - 100	7	20
Anthracene	0.22	F1	0.753	1.03	F1	mg/Kg	☼	109	43 - 100	6	20

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: 180-68037-1 MSD
Matrix: Solid
Analysis Batch: 216666

Client Sample ID: DUP2
Prep Type: Total/NA
Prep Batch: 216675

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzo[a]anthracene	0.53		0.753	1.25		mg/Kg	☼	95	43 - 100	4	20
Benzo[a]pyrene	0.66		0.753	1.22		mg/Kg	☼	75	43 - 100	4	20
Benzo[b]fluoranthene	0.67		0.753	1.27		mg/Kg	☼	79	40 - 100	5	20
Benzo[g,h,i]perylene	0.55		0.753	1.28		mg/Kg	☼	97	41 - 102	9	20
Benzo[k]fluoranthene	0.23	F1	0.753	1.06	F1	mg/Kg	☼	110	44 - 100	11	20
Chrysene	0.60		0.753	1.22		mg/Kg	☼	83	44 - 100	8	20
Dibenz(a,h)anthracene	0.13		0.753	0.854		mg/Kg	☼	96	40 - 104	10	26
Dibenzofuran	ND	F1	0.753	0.771	F1	mg/Kg	☼	102	42 - 100	9	23
1,4-Dioxane	ND		0.753	0.528	J	mg/Kg	☼	70	19 - 107	3	20
Fluoranthene	0.45	F1	0.753	1.50	F1	mg/Kg	☼	139	41 - 104	4	20
Fluorene	0.055	J	0.753	0.756		mg/Kg	☼	93	41 - 100	4	21
Hexachlorobenzene	ND		0.753	0.665		mg/Kg	☼	88	43 - 100	4	21
Indeno[1,2,3-cd]pyrene	0.39		0.753	1.12		mg/Kg	☼	97	41 - 104	7	25
2-Methylphenol	ND		0.753	0.682		mg/Kg	☼	91	38 - 100	8	20
Methylphenol, 3 & 4	ND		0.753	0.702		mg/Kg	☼	93	40 - 100	6	20
Naphthalene	0.098		0.753	0.851		mg/Kg	☼	100	38 - 100	6	20
Pentachlorophenol	ND		1.51	1.19	J	mg/Kg	☼	79	34 - 102	10	20
Phenanthrene	0.21	F1	0.753	1.51	F1	mg/Kg	☼	173	41 - 100	6	20
Phenol	ND		0.753	0.681		mg/Kg	☼	90	36 - 100	10	20
Pyrene	0.81	F1	0.753	1.72	F1	mg/Kg	☼	120	42 - 100	1	21

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl	*53*		*42 - 100*
2-Fluorophenol (Surr)	*54*		*21 - 107*
Nitrobenzene-d5 (Surr)	*63*		*35 - 109*
Phenol-d5 (Surr)	*59*		*29 - 105*
Terphenyl-d14 (Surr)	*59*		*36 - 113*
2,4,6-Tribromophenol (Surr)	*58*		*20 - 134*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 180-216674/1-C
Matrix: Solid
Analysis Batch: 216665

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 216674

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.017	0.0088	mg/Kg		07/11/17 09:57	07/11/17 17:38	1
PCB-1221	ND		0.017	0.0086	mg/Kg		07/11/17 09:57	07/11/17 17:38	1
PCB-1232	ND		0.017	0.0066	mg/Kg		07/11/17 09:57	07/11/17 17:38	1
PCB-1242	ND		0.017	0.013	mg/Kg		07/11/17 09:57	07/11/17 17:38	1
PCB-1248	ND		0.017	0.0080	mg/Kg		07/11/17 09:57	07/11/17 17:38	1
PCB-1254	ND		0.017	0.0073	mg/Kg		07/11/17 09:57	07/11/17 17:38	1
PCB-1260	ND		0.017	0.011	mg/Kg		07/11/17 09:57	07/11/17 17:38	1
PCB-1262	ND		0.017	0.012	mg/Kg		07/11/17 09:57	07/11/17 17:38	1
PCB-1268	ND		0.017	0.0051	mg/Kg		07/11/17 09:57	07/11/17 17:38	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: MB 180-216674/1-C
Matrix: Solid
Analysis Batch: 216665

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 216674

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*68*		*23 - 150*	*07/11/17 09:57*	*07/11/17 17:38*	*1*
DCB Decachlorobiphenyl (Surr)	*72*		*23 - 150*	*07/11/17 09:57*	*07/11/17 17:38*	*1*
Tetrachloro-m-xylene (Surr)	*80*		*27 - 138*	*07/11/17 09:57*	*07/11/17 17:38*	*1*
Tetrachloro-m-xylene (Surr)	*76*		*27 - 138*	*07/11/17 09:57*	*07/11/17 17:38*	*1*

Lab Sample ID: LCS 180-216674/2-C
Matrix: Solid
Analysis Batch: 216665

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 216674

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	1.33	1.02		mg/Kg		77	52 - 126
PCB-1260	1.33	1.09		mg/Kg		82	50 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*71*		*23 - 150*
DCB Decachlorobiphenyl (Surr)	*76*		*23 - 150*
Tetrachloro-m-xylene (Surr)	*82*		*27 - 138*
Tetrachloro-m-xylene (Surr)	*76*		*27 - 138*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 180-216814/1-A
Matrix: Solid
Analysis Batch: 217031

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 216814

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		1.0	0.44	mg/Kg		07/12/17 11:52	07/13/17 14:10	1
Barium	ND		20	5.4	mg/Kg		07/12/17 11:52	07/13/17 14:10	1
Beryllium	ND		0.40	0.10	mg/Kg		07/12/17 11:52	07/13/17 14:10	1
Cadmium	ND		0.50	0.11	mg/Kg		07/12/17 11:52	07/13/17 14:10	1
Chromium	ND		0.50	0.13	mg/Kg		07/12/17 11:52	07/13/17 14:10	1
Copper	ND		2.5	0.77	mg/Kg		07/12/17 11:52	07/13/17 14:10	1
Lead	ND		1.0	0.33	mg/Kg		07/12/17 11:52	07/13/17 14:10	1
Manganese	ND		1.5	0.41	mg/Kg		07/12/17 11:52	07/13/17 14:10	1
Nickel	ND		4.0	0.90	mg/Kg		07/12/17 11:52	07/13/17 14:10	1
Selenium	ND		1.0	0.40	mg/Kg		07/12/17 11:52	07/13/17 14:10	1
Silver	ND		0.50	0.17	mg/Kg		07/12/17 11:52	07/13/17 14:10	1
Zinc	ND		2.0	1.0	mg/Kg		07/12/17 11:52	07/13/17 14:10	1

Lab Sample ID: LCS 180-216814/2-A
Matrix: Solid
Analysis Batch: 217031

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 216814

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	50.0	50.5		mg/Kg		101	80 - 120
Barium	200	201		mg/Kg		100	80 - 120
Beryllium	5.00	5.07		mg/Kg		101	80 - 120
Cadmium	5.00	5.10		mg/Kg		102	80 - 120

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCS 180-216814/2-A
Matrix: Solid
Analysis Batch: 217031

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 216814

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium	20.0	20.0		mg/Kg		100	80 - 120
Copper	25.0	25.3		mg/Kg		101	80 - 120
Lead	50.0	49.6		mg/Kg		99	80 - 120
Manganese	50.0	50.0		mg/Kg		100	80 - 120
Nickel	50.0	50.8		mg/Kg		102	80 - 120
Selenium	50.0	51.1		mg/Kg		102	80 - 120
Silver	5.00	5.06		mg/Kg		101	80 - 120
Zinc	50.0	49.7		mg/Kg		99	80 - 120

Lab Sample ID: 180-68037-1 MS
Matrix: Solid
Analysis Batch: 217031

Client Sample ID: DUP2
Prep Type: Total/NA
Prep Batch: 216814

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	7.0		57.1	55.6		mg/Kg	☼	85	75 - 125
Barium	91		228	285		mg/Kg	☼	85	75 - 125
Beryllium	0.38	J	5.71	5.27		mg/Kg	☼	86	75 - 125
Cadmium	0.20	J	5.71	5.10		mg/Kg	☼	86	75 - 125
Chromium	11		22.8	30.9		mg/Kg	☼	88	75 - 125
Copper	25		28.5	48.2		mg/Kg	☼	82	75 - 125
Lead	34		57.1	87.1		mg/Kg	☼	93	75 - 125
Manganese	430		57.1	454	4	mg/Kg	☼	36	75 - 125
Nickel	20		57.1	72.0		mg/Kg	☼	91	75 - 125
Selenium	0.68	J	57.1	49.3		mg/Kg	☼	85	75 - 125
Silver	ND		5.71	5.02		mg/Kg	☼	88	75 - 125
Zinc	75		57.1	120		mg/Kg	☼	79	75 - 125

Lab Sample ID: 180-68037-1 MSD
Matrix: Solid
Analysis Batch: 217031

Client Sample ID: DUP2
Prep Type: Total/NA
Prep Batch: 216814

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	7.0		57.7	56.2		mg/Kg	☼	85	75 - 125	1	20
Barium	91		231	297		mg/Kg	☼	89	75 - 125	4	20
Beryllium	0.38	J	5.77	5.35		mg/Kg	☼	86	75 - 125	2	20
Cadmium	0.20	J	5.77	5.16		mg/Kg	☼	86	75 - 125	1	20
Chromium	11		23.1	31.7		mg/Kg	☼	90	75 - 125	2	20
Copper	25		28.8	50.0		mg/Kg	☼	87	75 - 125	4	20
Lead	34		57.7	90.8		mg/Kg	☼	99	75 - 125	4	20
Manganese	430		57.7	511	4	mg/Kg	☼	135	75 - 125	12	20
Nickel	20		57.7	75.1		mg/Kg	☼	95	75 - 125	4	20
Selenium	0.68	J	57.7	48.9		mg/Kg	☼	84	75 - 125	1	20
Silver	ND		5.77	4.98		mg/Kg	☼	86	75 - 125	1	20
Zinc	75		57.7	135		mg/Kg	☼	104	75 - 125	11	20

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 180-216844/1-A
Matrix: Solid
Analysis Batch: 216948

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 216844

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.033	0.0074	mg/Kg		07/12/17 14:26	07/13/17 09:02	1

Lab Sample ID: LCS 180-216844/2-A
Matrix: Solid
Analysis Batch: 216948

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 216844

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.417	0.465		mg/Kg		112	80 - 120

Method: 2540G - SM 2540G

Lab Sample ID: 180-68037-11 DU
Matrix: Solid
Analysis Batch: 216682

Client Sample ID: WINDROW1, SEC 1, C
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	9.4		9.3		%		2	20
Percent Solids	90.6		90.7		%		0.2	20

Method: 9014 - Cyanide

Lab Sample ID: MB 180-216711/4-A
Matrix: Solid
Analysis Batch: 216832

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 216711

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.50	0.15	mg/Kg		07/11/17 13:12	07/11/17 17:50	1

Lab Sample ID: HLCS 180-216711/2-A
Matrix: Solid
Analysis Batch: 216832

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 216711

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.250	0.245		mg/Kg		98	90 - 110

Lab Sample ID: LCS 180-216711/3-A
Matrix: Solid
Analysis Batch: 216832

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 216711

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	158	108		mg/Kg		69	38 - 162

Lab Sample ID: LLCS 180-216711/1-A
Matrix: Solid
Analysis Batch: 216832

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 216711

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.0500	0.0490		mg/Kg		98	90 - 110

Method: 9014 - Cyanide (Continued)

Lab Sample ID: 180-68037-2 MS
Matrix: Solid
Analysis Batch: 216832

Client Sample ID: WINDROW1, SEC 3, C
Prep Type: Total/NA
Prep Batch: 216711

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.19	J	5.37	5.40		mg/Kg	☼	97	75 - 125

Lab Sample ID: 180-68037-2 MSD
Matrix: Solid
Analysis Batch: 216832

Client Sample ID: WINDROW1, SEC 3, C
Prep Type: Total/NA
Prep Batch: 216711

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cyanide, Total	0.19	J	5.08	5.09		mg/Kg	☼	96	75 - 125	6	20

GC/MS VOA

Analysis Batch: 216640

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68037-3	WINDROW1, SEC 3, B	Total/NA	Solid	8260C	216673
180-68037-5	DUP1	Total/NA	Solid	8260C	216673
180-68037-6	WINDROW1, SEC 3, A	Total/NA	Solid	8260C	216673
180-68037-7	WINDROW1, SEC 4, B	Total/NA	Solid	8260C	216673
180-68037-9	WINDROW1, SEC 2, A	Total/NA	Solid	8260C	216673
180-68037-10	WINDROW1, SEC 1, A	Total/NA	Solid	8260C	216673
180-68037-12	WINDROW1, SEC 4, A	Total/NA	Solid	8260C	216673
180-68037-13	WINDROW1, SEC 2, B	Total/NA	Solid	8260C	216673
180-68037-14	WINDROW1, SEC 1, B	Total/NA	Solid	8260C	216673
MB 180-216673/1-A	Method Blank	Total/NA	Solid	8260C	216673
LCS 180-216673/2-A	Lab Control Sample	Total/NA	Solid	8260C	216673
LCSD 180-216673/3-A	Lab Control Sample Dup	Total/NA	Solid	8260C	216673

Prep Batch: 216673

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68037-3	WINDROW1, SEC 3, B	Total/NA	Solid	5035	
180-68037-5	DUP1	Total/NA	Solid	5035	
180-68037-6	WINDROW1, SEC 3, A	Total/NA	Solid	5035	
180-68037-7	WINDROW1, SEC 4, B	Total/NA	Solid	5035	
180-68037-9	WINDROW1, SEC 2, A	Total/NA	Solid	5035	
180-68037-10	WINDROW1, SEC 1, A	Total/NA	Solid	5035	
180-68037-12	WINDROW1, SEC 4, A	Total/NA	Solid	5035	
180-68037-13	WINDROW1, SEC 2, B	Total/NA	Solid	5035	
180-68037-14	WINDROW1, SEC 1, B	Total/NA	Solid	5035	
MB 180-216673/1-A	Method Blank	Total/NA	Solid	5035	
LCS 180-216673/2-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 180-216673/3-A	Lab Control Sample Dup	Total/NA	Solid	5035	

GC/MS Semi VOA

Analysis Batch: 216666

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68037-1	DUP2	Total/NA	Solid	8270D LL	216675
180-68037-2	WINDROW1, SEC 3, C	Total/NA	Solid	8270D LL	216675
180-68037-4	WINDROW1, SEC 4, C	Total/NA	Solid	8270D LL	216675
180-68037-8	WINDROW1, SEC 2, C	Total/NA	Solid	8270D LL	216675
180-68037-11	WINDROW1, SEC 1, C	Total/NA	Solid	8270D LL	216675
MB 180-216675/1-A	Method Blank	Total/NA	Solid	8270D LL	216675
LCS 180-216675/2-A	Lab Control Sample	Total/NA	Solid	8270D LL	216675
180-68037-1 MS	DUP2	Total/NA	Solid	8270D LL	216675
180-68037-1 MSD	DUP2	Total/NA	Solid	8270D LL	216675

Prep Batch: 216675

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68037-1	DUP2	Total/NA	Solid	3541	
180-68037-2	WINDROW1, SEC 3, C	Total/NA	Solid	3541	
180-68037-4	WINDROW1, SEC 4, C	Total/NA	Solid	3541	
180-68037-8	WINDROW1, SEC 2, C	Total/NA	Solid	3541	
180-68037-11	WINDROW1, SEC 1, C	Total/NA	Solid	3541	
MB 180-216675/1-A	Method Blank	Total/NA	Solid	3541	

GC/MS Semi VOA (Continued)

Prep Batch: 216675 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 180-216675/2-A	Lab Control Sample	Total/NA	Solid	3541	
180-68037-1 MS	DUP2	Total/NA	Solid	3541	
180-68037-1 MSD	DUP2	Total/NA	Solid	3541	

GC Semi VOA

Analysis Batch: 216665

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68037-1	DUP2	Total/NA	Solid	8082A	216717
180-68037-2	WINDROW1, SEC 3, C	Total/NA	Solid	8082A	216717
180-68037-4	WINDROW1, SEC 4, C	Total/NA	Solid	8082A	216717
180-68037-8	WINDROW1, SEC 2, C	Total/NA	Solid	8082A	216717
180-68037-11	WINDROW1, SEC 1, C	Total/NA	Solid	8082A	216717
MB 180-216674/1-C	Method Blank	Total/NA	Solid	8082A	216717
LCS 180-216674/2-C	Lab Control Sample	Total/NA	Solid	8082A	216717

Prep Batch: 216674

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68037-1	DUP2	Total/NA	Solid	3541	
180-68037-2	WINDROW1, SEC 3, C	Total/NA	Solid	3541	
180-68037-4	WINDROW1, SEC 4, C	Total/NA	Solid	3541	
180-68037-8	WINDROW1, SEC 2, C	Total/NA	Solid	3541	
180-68037-11	WINDROW1, SEC 1, C	Total/NA	Solid	3541	
MB 180-216674/1-C	Method Blank	Total/NA	Solid	3541	
LCS 180-216674/2-C	Lab Control Sample	Total/NA	Solid	3541	

Cleanup Batch: 216716

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68037-1	DUP2	Total/NA	Solid	3665A	216674
180-68037-2	WINDROW1, SEC 3, C	Total/NA	Solid	3665A	216674
180-68037-4	WINDROW1, SEC 4, C	Total/NA	Solid	3665A	216674
180-68037-8	WINDROW1, SEC 2, C	Total/NA	Solid	3665A	216674
180-68037-11	WINDROW1, SEC 1, C	Total/NA	Solid	3665A	216674
MB 180-216674/1-C	Method Blank	Total/NA	Solid	3665A	216674
LCS 180-216674/2-C	Lab Control Sample	Total/NA	Solid	3665A	216674

Cleanup Batch: 216717

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68037-1	DUP2	Total/NA	Solid	3660B	216716
180-68037-2	WINDROW1, SEC 3, C	Total/NA	Solid	3660B	216716
180-68037-4	WINDROW1, SEC 4, C	Total/NA	Solid	3660B	216716
180-68037-8	WINDROW1, SEC 2, C	Total/NA	Solid	3660B	216716
180-68037-11	WINDROW1, SEC 1, C	Total/NA	Solid	3660B	216716
MB 180-216674/1-C	Method Blank	Total/NA	Solid	3660B	216716
LCS 180-216674/2-C	Lab Control Sample	Total/NA	Solid	3660B	216716

Metals

Prep Batch: 216814

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68037-1	DUP2	Total/NA	Solid	3050B	
180-68037-2	WINDROW1, SEC 3, C	Total/NA	Solid	3050B	
180-68037-4	WINDROW1, SEC 4, C	Total/NA	Solid	3050B	
180-68037-8	WINDROW1, SEC 2, C	Total/NA	Solid	3050B	
180-68037-11	WINDROW1, SEC 1, C	Total/NA	Solid	3050B	
MB 180-216814/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 180-216814/2-A	Lab Control Sample	Total/NA	Solid	3050B	
180-68037-1 MS	DUP2	Total/NA	Solid	3050B	
180-68037-1 MSD	DUP2	Total/NA	Solid	3050B	

Prep Batch: 216844

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68037-1	DUP2	Total/NA	Solid	7471B	
180-68037-2	WINDROW1, SEC 3, C	Total/NA	Solid	7471B	
180-68037-4	WINDROW1, SEC 4, C	Total/NA	Solid	7471B	
180-68037-8	WINDROW1, SEC 2, C	Total/NA	Solid	7471B	
180-68037-11	WINDROW1, SEC 1, C	Total/NA	Solid	7471B	
MB 180-216844/1-A	Method Blank	Total/NA	Solid	7471B	
LCS 180-216844/2-A	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 216948

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68037-1	DUP2	Total/NA	Solid	7471B	216844
180-68037-2	WINDROW1, SEC 3, C	Total/NA	Solid	7471B	216844
180-68037-4	WINDROW1, SEC 4, C	Total/NA	Solid	7471B	216844
180-68037-8	WINDROW1, SEC 2, C	Total/NA	Solid	7471B	216844
180-68037-11	WINDROW1, SEC 1, C	Total/NA	Solid	7471B	216844
MB 180-216844/1-A	Method Blank	Total/NA	Solid	7471B	216844
LCS 180-216844/2-A	Lab Control Sample	Total/NA	Solid	7471B	216844

Analysis Batch: 217031

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68037-1	DUP2	Total/NA	Solid	6010C	216814
180-68037-2	WINDROW1, SEC 3, C	Total/NA	Solid	6010C	216814
180-68037-4	WINDROW1, SEC 4, C	Total/NA	Solid	6010C	216814
180-68037-8	WINDROW1, SEC 2, C	Total/NA	Solid	6010C	216814
180-68037-11	WINDROW1, SEC 1, C	Total/NA	Solid	6010C	216814
MB 180-216814/1-A	Method Blank	Total/NA	Solid	6010C	216814
LCS 180-216814/2-A	Lab Control Sample	Total/NA	Solid	6010C	216814
180-68037-1 MS	DUP2	Total/NA	Solid	6010C	216814
180-68037-1 MSD	DUP2	Total/NA	Solid	6010C	216814

General Chemistry

Analysis Batch: 216682

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68037-10	WINDROW1, SEC 1, A	Total/NA	Solid	2540G	
180-68037-11	WINDROW1, SEC 1, C	Total/NA	Solid	2540G	
180-68037-12	WINDROW1, SEC 4, A	Total/NA	Solid	2540G	
180-68037-13	WINDROW1, SEC 2, B	Total/NA	Solid	2540G	

General Chemistry (Continued)

Analysis Batch: 216682 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68037-14	WINDROW1, SEC 1, B	Total/NA	Solid	2540G	
180-68037-11 DU	WINDROW1, SEC 1, C	Total/NA	Solid	2540G	

Prep Batch: 216711

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68037-1	DUP2	Total/NA	Solid	9010C	
180-68037-2	WINDROW1, SEC 3, C	Total/NA	Solid	9010C	
180-68037-4	WINDROW1, SEC 4, C	Total/NA	Solid	9010C	
180-68037-8	WINDROW1, SEC 2, C	Total/NA	Solid	9010C	
180-68037-11	WINDROW1, SEC 1, C	Total/NA	Solid	9010C	
MB 180-216711/4-A	Method Blank	Total/NA	Solid	9010C	
HLCS 180-216711/2-A	Lab Control Sample	Total/NA	Solid	9010C	
LCS 180-216711/3-A	Lab Control Sample	Total/NA	Solid	9010C	
LLCS 180-216711/1-A	Lab Control Sample	Total/NA	Solid	9010C	
180-68037-2 MS	WINDROW1, SEC 3, C	Total/NA	Solid	9010C	
180-68037-2 MSD	WINDROW1, SEC 3, C	Total/NA	Solid	9010C	

Analysis Batch: 216820

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68037-1	DUP2	Total/NA	Solid	2540G	
180-68037-2	WINDROW1, SEC 3, C	Total/NA	Solid	2540G	
180-68037-3	WINDROW1, SEC 3, B	Total/NA	Solid	2540G	
180-68037-4	WINDROW1, SEC 4, C	Total/NA	Solid	2540G	
180-68037-5	DUP1	Total/NA	Solid	2540G	
180-68037-6	WINDROW1, SEC 3, A	Total/NA	Solid	2540G	
180-68037-7	WINDROW1, SEC 4, B	Total/NA	Solid	2540G	
180-68037-8	WINDROW1, SEC 2, C	Total/NA	Solid	2540G	
180-68037-9	WINDROW1, SEC 2, A	Total/NA	Solid	2540G	

Analysis Batch: 216832

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68037-1	DUP2	Total/NA	Solid	9014	216711
180-68037-2	WINDROW1, SEC 3, C	Total/NA	Solid	9014	216711
180-68037-4	WINDROW1, SEC 4, C	Total/NA	Solid	9014	216711
180-68037-8	WINDROW1, SEC 2, C	Total/NA	Solid	9014	216711
180-68037-11	WINDROW1, SEC 1, C	Total/NA	Solid	9014	216711
MB 180-216711/4-A	Method Blank	Total/NA	Solid	9014	216711
HLCS 180-216711/2-A	Lab Control Sample	Total/NA	Solid	9014	216711
LCS 180-216711/3-A	Lab Control Sample	Total/NA	Solid	9014	216711
LLCS 180-216711/1-A	Lab Control Sample	Total/NA	Solid	9014	216711
180-68037-2 MS	WINDROW1, SEC 3, C	Total/NA	Solid	9014	216711
180-68037-2 MSD	WINDROW1, SEC 3, C	Total/NA	Solid	9014	216711

TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
phone 412.963.7058 fax 412.963.2468

Chain of Cus

180-68037 Chain of Custody

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA

Client Contact	Project Manager: Aron Krasnopoler	Site Contact: Jay Thompson	Date: 7/10/2017	COC No:
Geosyntec Consultants	Tel/Fax: 401-381-4333	Lab Contact: Dave Dunlap	Carrier: FedEx	1 of 2 COCs
10211 Wincopin Circle, 4th Floor	Analysis Turnaround Time			Sampler:
Columbia, MD 21044	☐ CALENDAR DAYS ☑ WORKING DAYS			For Lab Use Only:
410-381-4333 Phone	TAT if different from Below			
410-381-4499 FAX	☐ 2 weeks DATE 7/14/17			
Project Name: Former Sperry Remington Site - North	☐ 1 week 3 DAY as per Aron Krasnopoler			
Site: Elmira	☐ 2 days			
P O # MN0832B	☑ 1 day			

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	PCBs - 8082A	VOCs - 8260C	TCLP - Lead	6010C	8270D-LL	7471B	9014	Sample Specific Notes:
1	DUP 2	7-10-17	—	C	S	2	N	N	X			X	X	X	X	
2	Windrow 1, Sec 3, C	7-10-17	16:15	C	S	2	N	N	X			X	X	X	X	
3	Windrow 1, Sec 3, B	7-10-17	16:05	G	S	4	N	N		X						
4	Windrow 1, Sec 4, C	7-10-17	16:40	C	S	2	N	N	X			X	X	X	X	
	DUP 1	7-10-17	—	G	S	4	N	N	X	X		X	X	X	X	Dup1=grab for VOC DATE 7/11/17
	Windrow 1, Sec 3, A	7-10-17	16:00	G	S	4	N	N		X						
	Windrow 1, Sec 4, B	7-10-17	16:35	G	S	4	N	N		X						
	Windrow 1, Sec 2, C	7-10-17	14:55	C	S	2	N	N	X			X	X	X	X	
9	Windrow 1, Sec 2, A	7-10-17	14:45	G	S	4	N	N		X						
10	Windrow 1, Sec 1, A	7-10-17	14:20	G	S	4	N	N		X						
11	Windrow 1, Sec 1, C	7-10-17	14:30	C	S	2	N	N	X			X	X	X	X	
12	Windrow 1, Sec 4, A	7-10-17	16:20	G	S	4	N	N		X						

RUSH

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd: _____ Corr'd: _____		Therm ID No.: _____
Relinquished by:	Company: Geosyntec	Date/Time: 7/10/2017 1830	Received by:	Company: TAPIT	Date/Time: 7/11/17 0830
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Form No. CA-C-WI-002, Rev. 4.3, dated 12/05/2013

TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
phone 412.963.7058 fax 412.963.2468

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☑ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Aron Krasnopoler	Site Contact: Jay Thompson	Date:	COC No:
Geosyntec Consultants	Tel/Fax: 401-381-4333	Lab Contact: Dave Dunlap	Carrier: FedEx	2 of 2 COCs
10211 Wincopin Circle, 4th Floor	**Analysis Turnaround Time**			Sampler:
Columbia, MD 21044	☐ CALENDAR DAYS ☑ WORKING DAYS			**For Lab Use Only:**
410-381-4333 Phone	TAT if different from Below _____			
410-381-4499 FAX	☐ 2 weeks			
Project Name: Former Sperry Remington Site - North	☐ 1 week 3 days as per Aron Krasnopoler			
Site: Elmira	☐ 2 days			
P O # MN0832B	☑ 1 day			

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	PCBs - 8082A	VOCs - 8260C	TCLP - Lead	1010C	8270D_LL	7471B	9014	8260_LL	c Notes:
13	Windrow 1, Sec 2, B	7/10/17	14:50	G	S	4	N	N		X							
14	Windrow 1, Sec 1, B	7-10-17	14:25	G	S	4	N	N		X							
	Trip Blank	—	—	—	—	2	N	N								X	

RUSH

Preservation Used: 1= Ice, 2= HCl; 3= H_2SO_4; 4=HNO_3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd: _____ Corr'd: _____		Therm ID No.: _____
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time: 7/11/17 0830
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 180-68037-1

Login Number: 68037
List Number: 1
Creator: Dunlap, David A

List Source: TestAmerica Pittsburgh

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	False	COC not relinquished
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	see notation on COC
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

TestAmerica Job ID: 180-68037-2
Client Project/Site: Former Sperry Remington Site - North IRM

For:
Geosyntec Consultants, Inc.
10211 Wincopin Circle
4'th Floor
Columbia, Maryland 21044

Attn: Mr. Aron Krasnopoler

Veronica Bortot

Authorized for release by:
7/18/2017 10:28:37 AM
Veronica Bortot, Senior Project Manager
(412)963-2435
veronica.bortot@testamericainc.com

Designee for

David Dunlap, Senior Project Manager
(412)963-2432
david.dunlap@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68037-2

Job ID: 180-68037-2

Laboratory: TestAmerica Pittsburgh

Narrative

Job Narrative
180-68037-2

Comments
No additional comments.

Receipt
The samples were received on 7/11/2017 8:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 1.9º C, 2.0º C and 2.3º C.

GC/MS VOA
Method(s) 8260C: The continuing calibration verification (CCV) analyzed in batch 180-217200 was outside the method criteria for the following analyte: 2-Butanone (MEK) and Acetone. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte is considered estimated.

Method(s) 8260C: The following analyte recovered outside control limits for the LCS associated with analytical batch 180-217200: n-Butylbenzene. This is not indicative of a systematic control problem because these were random marginal exceedances. Qualified results have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Definitions/Glossary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68037-2

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc. TestAmerica Job ID: 180-68037-2
Project/Site: Former Sperry Remington Site - North IRM

Laboratory: TestAmerica Pittsburgh

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	11182	03-31-18

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68037-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-68037-15	TRIP BLANK	Water	07/10/17 00:00	07/11/17 08:30

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68037-2

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds (GC/MS)	SW846	TAL PIT

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68037-2

Client Sample ID: TRIP BLANK
Date Collected: 07/10/17 00:00
Date Received: 07/11/17 08:30

Lab Sample ID: 180-68037-15
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	217200	07/17/17 08:09	FBB	TAL PIT
	Instrument ID: CHHP5									

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Analyst References:

Lab: TAL PIT

Batch Type: Analysis

FBB = Frank Bungard

Client Sample ID: TRIP BLANK
Date Collected: 07/10/17 00:00
Date Received: 07/11/17 08:30

Lab Sample ID: 180-68037-15
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		5.0	3.1	ug/L			07/17/17 08:09	1
Benzene	ND		1.0	0.18	ug/L			07/17/17 08:09	1
2-Butanone (MEK)	ND		5.0	2.6	ug/L			07/17/17 08:09	1
Carbon tetrachloride	ND		1.0	0.56	ug/L			07/17/17 08:09	1
Chlorobenzene	ND		1.0	0.15	ug/L			07/17/17 08:09	1
Chloroform	ND		1.0	0.27	ug/L			07/17/17 08:09	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			07/17/17 08:09	1
1,2-Dichlorobenzene	ND		1.0	0.23	ug/L			07/17/17 08:09	1
1,3-Dichlorobenzene	ND		1.0	0.21	ug/L			07/17/17 08:09	1
1,4-Dichlorobenzene	ND		1.0	0.24	ug/L			07/17/17 08:09	1
1,1-Dichloroethane	ND		1.0	0.34	ug/L			07/17/17 08:09	1
1,2-Dichloroethane	ND		1.0	0.24	ug/L			07/17/17 08:09	1
1,1-Dichloroethene	ND		1.0	0.32	ug/L			07/17/17 08:09	1
Ethylbenzene	ND		1.0	0.25	ug/L			07/17/17 08:09	1
Methylene Chloride	ND		1.0	0.94	ug/L			07/17/17 08:09	1
Methyl tert-butyl ether	ND		1.0	0.20	ug/L			07/17/17 08:09	1
n-Butylbenzene	ND	*	1.0	0.22	ug/L			07/17/17 08:09	1
N-Propylbenzene	ND		1.0	0.20	ug/L			07/17/17 08:09	1
sec-Butylbenzene	ND		1.0	0.22	ug/L			07/17/17 08:09	1
tert-Butylbenzene	ND		1.0	0.17	ug/L			07/17/17 08:09	1
Tetrachloroethene	ND		1.0	0.24	ug/L			07/17/17 08:09	1
Toluene	ND		1.0	0.16	ug/L			07/17/17 08:09	1
trans-1,2-Dichloroethene	ND		1.0	0.20	ug/L			07/17/17 08:09	1
1,1,1-Trichloroethane	ND		1.0	0.27	ug/L			07/17/17 08:09	1
Trichloroethene	ND		1.0	0.20	ug/L			07/17/17 08:09	1
1,2,4-Trimethylbenzene	ND		1.0	0.18	ug/L			07/17/17 08:09	1
1,3,5-Trimethylbenzene	ND		1.0	0.17	ug/L			07/17/17 08:09	1
Vinyl chloride	ND		1.0	0.17	ug/L			07/17/17 08:09	1
Xylenes, Total	ND		2.0	0.27	ug/L			07/17/17 08:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*72 - 120*		*07/17/17 08:09*	*1*
Dibromofluoromethane (Surr)	*102*		*77 - 127*		*07/17/17 08:09*	*1*
1,2-Dichloroethane-d4 (Surr)	*88*		*72 - 134*		*07/17/17 08:09*	*1*
Toluene-d8 (Surr)	*84*		*80 - 120*		*07/17/17 08:09*	*1*

Method: 8260C - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 180-217200/7
Matrix: Water
Analysis Batch: 217200

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		5.0	3.1	ug/L			07/17/17 07:13	1
Benzene	ND		1.0	0.18	ug/L			07/17/17 07:13	1
2-Butanone (MEK)	ND		5.0	2.6	ug/L			07/17/17 07:13	1
Carbon tetrachloride	ND		1.0	0.56	ug/L			07/17/17 07:13	1
Chlorobenzene	ND		1.0	0.15	ug/L			07/17/17 07:13	1
Chloroform	ND		1.0	0.27	ug/L			07/17/17 07:13	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			07/17/17 07:13	1
1,2-Dichlorobenzene	ND		1.0	0.23	ug/L			07/17/17 07:13	1
1,3-Dichlorobenzene	ND		1.0	0.21	ug/L			07/17/17 07:13	1
1,4-Dichlorobenzene	ND		1.0	0.24	ug/L			07/17/17 07:13	1
1,1-Dichloroethane	ND		1.0	0.34	ug/L			07/17/17 07:13	1
1,2-Dichloroethane	ND		1.0	0.24	ug/L			07/17/17 07:13	1
1,1-Dichloroethene	ND		1.0	0.32	ug/L			07/17/17 07:13	1
Ethylbenzene	ND		1.0	0.25	ug/L			07/17/17 07:13	1
Methylene Chloride	ND		1.0	0.94	ug/L			07/17/17 07:13	1
Methyl tert-butyl ether	ND		1.0	0.20	ug/L			07/17/17 07:13	1
n-Butylbenzene	ND		1.0	0.22	ug/L			07/17/17 07:13	1
N-Propylbenzene	ND		1.0	0.20	ug/L			07/17/17 07:13	1
sec-Butylbenzene	ND		1.0	0.22	ug/L			07/17/17 07:13	1
tert-Butylbenzene	ND		1.0	0.17	ug/L			07/17/17 07:13	1
Tetrachloroethene	ND		1.0	0.24	ug/L			07/17/17 07:13	1
Toluene	ND		1.0	0.16	ug/L			07/17/17 07:13	1
trans-1,2-Dichloroethene	ND		1.0	0.20	ug/L			07/17/17 07:13	1
1,1,1-Trichloroethane	ND		1.0	0.27	ug/L			07/17/17 07:13	1
Trichloroethene	ND		1.0	0.20	ug/L			07/17/17 07:13	1
1,2,4-Trimethylbenzene	ND		1.0	0.18	ug/L			07/17/17 07:13	1
1,3,5-Trimethylbenzene	ND		1.0	0.17	ug/L			07/17/17 07:13	1
Vinyl chloride	ND		1.0	0.17	ug/L			07/17/17 07:13	1
Xylenes, Total	ND		2.0	0.27	ug/L			07/17/17 07:13	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*72 - 120*		*07/17/17 07:13*	*1*
Dibromofluoromethane (Surr)	*97*		*77 - 127*		*07/17/17 07:13*	*1*
1,2-Dichloroethane-d4 (Surr)	*85*		*72 - 134*		*07/17/17 07:13*	*1*
Toluene-d8 (Surr)	*85*		*80 - 120*		*07/17/17 07:13*	*1*

Lab Sample ID: LCS 180-217200/4
Matrix: Water
Analysis Batch: 217200

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	20.0	15.6		ug/L		78	10 - 150
Benzene	10.0	11.1		ug/L		111	80 - 121
2-Butanone (MEK)	20.0	16.7		ug/L		84	41 - 150
Carbon tetrachloride	10.0	11.6		ug/L		116	59 - 145
Chlorobenzene	10.0	10.7		ug/L		107	80 - 120
Chloroform	10.0	10.2		ug/L		102	78 - 122
cis-1,2-Dichloroethene	10.0	10.7		ug/L		107	80 - 120

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 180-217200/4
Matrix: Water
Analysis Batch: 217200

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichlorobenzene	10.0	10.6		ug/L		106	80 - 120
1,3-Dichlorobenzene	10.0	10.5		ug/L		105	80 - 120
1,4-Dichlorobenzene	10.0	10.6		ug/L		106	80 - 120
1,1-Dichloroethane	10.0	10.1		ug/L		101	76 - 126
1,2-Dichloroethane	10.0	8.79		ug/L		88	72 - 126
1,1-Dichloroethene	10.0	12.0		ug/L		120	71 - 122
Ethylbenzene	10.0	11.3		ug/L		113	80 - 123
Methylene Chloride	10.0	10.1		ug/L		101	71 - 129
Methyl tert-butyl ether	10.0	9.36		ug/L		94	68 - 124
n-Butylbenzene	10.0	12.1	*	ug/L		121	75 - 120
N-Propylbenzene	10.0	10.8		ug/L		108	78 - 121
sec-Butylbenzene	10.0	11.7		ug/L		117	80 - 121
tert-Butylbenzene	10.0	11.2		ug/L		112	79 - 120
Tetrachloroethene	10.0	12.0		ug/L		120	80 - 122
Toluene	10.0	10.9		ug/L		109	80 - 125
trans-1,2-Dichloroethene	10.0	11.6		ug/L		116	80 - 121
1,1,1-Trichloroethane	10.0	10.8		ug/L		108	57 - 128
Trichloroethene	10.0	11.0		ug/L		110	79 - 120
1,2,4-Trimethylbenzene	10.0	11.2		ug/L		112	80 - 120
1,3,5-Trimethylbenzene	10.0	11.2		ug/L		112	80 - 122
Vinyl chloride	10.0	10.3		ug/L		103	61 - 138
Xylenes, Total	20.0	22.4		ug/L		112	80 - 123

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*72 - 120*
Dibromofluoromethane (Surr)	*104*		*77 - 127*
1,2-Dichloroethane-d4 (Surr)	*93*		*72 - 134*
Toluene-d8 (Surr)	*107*		*80 - 120*

Lab Sample ID: LCSD 180-217200/5
Matrix: Water
Analysis Batch: 217200

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	20.0	13.8		ug/L		69	10 - 150	12	35
Benzene	10.0	10.3		ug/L		103	80 - 121	7	15
2-Butanone (MEK)	20.0	15.1		ug/L		76	41 - 150	10	35
Carbon tetrachloride	10.0	10.2		ug/L		102	59 - 145	13	19
Chlorobenzene	10.0	9.21		ug/L		92	80 - 120	15	15
Chloroform	10.0	9.53		ug/L		95	78 - 122	7	15
cis-1,2-Dichloroethene	10.0	9.89		ug/L		99	80 - 120	8	17
1,2-Dichlorobenzene	10.0	9.73		ug/L		97	80 - 120	9	15
1,3-Dichlorobenzene	10.0	9.69		ug/L		97	80 - 120	8	15
1,4-Dichlorobenzene	10.0	9.55		ug/L		96	80 - 120	10	15
1,1-Dichloroethane	10.0	9.49		ug/L		95	76 - 126	7	22
1,2-Dichloroethane	10.0	8.35		ug/L		83	72 - 126	5	15
1,1-Dichloroethene	10.0	10.8		ug/L		108	71 - 122	10	18
Ethylbenzene	10.0	9.77		ug/L		98	80 - 123	14	15

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 180-217200/5
Matrix: Water
Analysis Batch: 217200

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methylene Chloride			10.0	9.43		ug/L		94	71 - 129	7	19
Methyl tert-butyl ether			10.0	9.04		ug/L		90	68 - 124	4	25
n-Butylbenzene			10.0	10.8		ug/L		108	75 - 120	12	15
N-Propylbenzene			10.0	9.52		ug/L		95	78 - 121	12	15
sec-Butylbenzene			10.0	10.5		ug/L		105	80 - 121	11	15
tert-Butylbenzene			10.0	10.2		ug/L		102	79 - 120	10	15
Tetrachloroethene			10.0	10.4		ug/L		104	80 - 122	14	15
Toluene			10.0	9.46		ug/L		95	80 - 125	14	15
trans-1,2-Dichloroethene			10.0	10.1		ug/L		101	80 - 121	13	18
1,1,1-Trichloroethane			10.0	9.49		ug/L		95	57 - 128	13	19
Trichloroethene			10.0	10.1		ug/L		101	79 - 120	9	15
1,2,4-Trimethylbenzene			10.0	10.2		ug/L		102	80 - 120	10	15
1,3,5-Trimethylbenzene			10.0	10.1		ug/L		101	80 - 122	10	15
Vinyl chloride			10.0	9.05		ug/L		91	61 - 138	12	16
Xylenes, Total			20.0	19.6		ug/L		98	80 - 123	13	15

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*72 - 120*
Dibromofluoromethane (Surr)	*103*		*77 - 127*
1,2-Dichloroethane-d4 (Surr)	*93*		*72 - 134*
Toluene-d8 (Surr)	*99*		*80 - 120*

QC Association Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68037-2

GC/MS VOA

Analysis Batch: 217200

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68037-15	TRIP BLANK	Total/NA	Water	8260C	
MB 180-217200/7	Method Blank	Total/NA	Water	8260C	
LCS 180-217200/4	Lab Control Sample	Total/NA	Water	8260C	
LCSD 180-217200/5	Lab Control Sample Dup	Total/NA	Water	8260C	

TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
phone 412.963.7058 fax 412.963.2468

Chain of Cus

180-68037 Chain of Custody

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA

Client Contact	Project Manager: Aron Krasnopoler	Site Contact: Jay Thompson	Date: 7/10/2017	COC No:
Geosyntec Consultants	Tel/Fax: 401-381-4333	Lab Contact: Dave Dunlap	Carrier: FedEx	1 of 2 COCs
10211 Wincopin Circle, 4th Floor	Analysis Turnaround Time			Sampler:
Columbia, MD 21044	☐ CALENDAR DAYS ☑ WORKING DAYS			For Lab Use Only:
410-381-4333 Phone	TAT if different from Below			
410-381-4499 FAX	☐ 2 weeks DTO 7/14/17			
Project Name: Former Sperry Remington Site - North	☐ 1 week 3 Lee Y as per Aron Krasnopoler			
Site: Elmira	☐ 2 days			
P O # MN0832B	☑ 1 day			

RUSH

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	PCBs - 8082A	VOCs - 8260C	TCLP - Lead	6010C	8270D-LL	7471B	9014	Sample Specific Notes:
1	DUP 2	7-10-17	—	C	S	2	N	N	X			X	X	X	X	
2	Windrow 1, Sec 3, C	7-10-17	16:15	C	S	2	N	N	X			X	X	X	X	
3	Windrow 1, Sec 3, B	7-10-17	16:05	G	S	4	N	N		X						
4	Windrow 1, Sec 4, C	7-10-17	16:40	C	S	2	N	N	X			X	X	X	X	
	DUP 1	7-10-17	—	G	S	24	N	N	X	X		DO 7/11/17	X	X	X	Dup1=grab for VOC DO 7/11/17
5	Windrow 1, Sec 3, A	7-10-17	16:00	G	S	4	N	N		X						
6	Windrow 1, Sec 4, B	7-10-17	16:35	G	S	4	N	N		X						
7	Windrow 1, Sec 2, C	7-10-17	14:55	C	S	2	N	N	X			X	X	X	X	
8	Windrow 1, Sec 2, A	7-10-17	14:45	G	S	4	N	N		X						
9	Windrow 1, Sec 1, A	7-10-17	14:20	G	S	4	N	N		X						
10	Windrow 1, Sec 1, C	7-10-17	14:30	C	S	2	N	N	X			X	X	X	X	
11	Windrow 1, Sec 4, A	7-10-17	16:20	G	S	4	N	N		X						

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd: _____ Corr'd: _____		Therm ID No.: _____
Relinquished by:	Company: Geosyntec	Date/Time: 7/10/2017 1830	Received by:	Company: TAPIT	Date/Time: 7/11/17 0830
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Form No. CA-C-WI-002, Rev. 4.3, dated 12/05/2013

TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
phone 412.963.7058 fax 412.963.2468

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☑ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Aron Krasnopoler	Site Contact: Jay Thompson	Date:	COC No:
Geosyntec Consultants	Tel/Fax: 401-381-4333	Lab Contact: Dave Dunlap	Carrier: FedEx	2 of 2 COCs
10211 Wincopin Circle, 4th Floor	Analysis Turnaround Time			Sampler:
Columbia, MD 21044	☐ CALENDAR DAYS ☑ WORKING DAYS			For Lab Use Only:
410-381-4333 Phone	TAT if different from Below			
410-381-4499 FAX	☐ 2 weeks			
Project Name: Former Sperry Remington Site - North	☐ 1 week 3 days as per Aron Krasnopoler			
Site: Elmira	☐ 2 days			
P O # MN0832B	☑ 1 day			

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	PCBs - 8082A	VOCs - 8260C	TCLP - Lead	1010C	8270D_LL	7471B	9014	8260_LL	c Notes:
13	Windrow 1, Sec 2, B	7/10/17	14:30	G	S	4	N	N		X							
14	Windrow 1, Sec 1, B	7-10-17	14:25	G	S	4	N	N		X							
	Trip Blank	—	—	—	—	2	N	N								X	

RUSH

Preservation Used: 1= Ice, 2= HCl; 3= H_2SO_4; 4=HNO_3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temp. (°C): Obs'd:	Corr'd:	Therm ID No.:

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time: 7/11/17 0830
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Form No. CA-C-WI-002, Rev. 4.3, dated 12/05/2013

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 180-68037-2

Login Number: 68037
List Number: 1
Creator: Dunlap, David A

List Source: TestAmerica Pittsburgh

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	False	COC not relinquished
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	see notation on COC
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

TestAmerica Job ID: 180-68096-1
Client Project/Site: Former Sperry Remington Site - North IRM

For:
Geosyntec Consultants, Inc.
10211 Wincopin Circle
4'th Floor
Columbia, Maryland 21044

Attn: Mr. Aron Krasnopoler

Veronica Bortot

Authorized for release by:
7/18/2017 12:39:21 PM
Veronica Bortot, Senior Project Manager
(412)963-2435
veronica.bortot@testamericainc.com

Designee for

David Dunlap, Senior Project Manager
(412)963-2432
david.dunlap@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Job ID: 180-68096-1

Laboratory: TestAmerica Pittsburgh

Narrative

Job Narrative
180-68096-1

Comments
No additional comments.

Receipt
The samples were received on 7/12/2017 9:10 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 1.2º C, 2.1º C and 3.1º C.

Receipt Exceptions
The following volatile samples were analyzed with significant headspace in two out of two voa vials: TRIP BLANK 1 (180-68096-37) and TRIP BLANK 2 (180-68096-38). Significant headspace is defined as a bubble greater than 6 mm in diameter.

GC/MS VOA
Method(s) 8260C: The continuing calibration verification (CCV) analyzed in batch 180-217186 was outside the method criteria for the following analyte: Carbon Tetrachloride. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte is considered estimated.

Method(s) 8260C: The continuing calibration verification (CCV) analyzed in batch 180-217056 was outside the method criteria for the following analyte(s): Carbon Tetrachloride. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method(s) 8260C: The continuing calibration verification (CCV) analyzed in batch 180-217200 was outside the method criteria for the following analyte: 2-Butanone (MEK) and Acetone. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte is considered estimated.

Method(s) 8260C: The following analyte recovered outside control limits for the LCS associated with analytical batch 180-217200: n-Butylbenzene. This is not indicative of a systematic control problem because these were random marginal exceedances. Qualified results have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method(s) 8270D LL: The following samples was diluted to bring the concentration of target analytes within the calibration range (extract viscous, dark in color): W2, S5 C 71117 (180-68096-18) and W3, S1, C 71117 (180-68096-23). Elevated reporting limits (RLs) are provided.

Method(s) 8270D LL: The following samples was diluted due to the nature of the sample matrix (extract viscous, dark in color): W1, S5, C 71117 (180-68096-3), W2, S1, C 71117 (180-68096-6), W2, S2, C 71117 (180-68096-9), W2, S3, C 71117 (180-68096-12), W2, S4, C 71117 (180-68096-15) and DUP-4 (180-68096-22). This is the lowest dilution possible for these samples. Elevated reporting limits (RLs) are provided.

Method(s) 8270D LL: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and RPD's for preparation batch 180-216880 and analytical batch 180-216940 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits. They are at a 20x dilution due to matrix.

Method(s) 8270D LL: The continuing calibration verification (CCV) associated with batch 180-216940 recovered above the upper control limit for Pentachlorophenol. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Job ID: 180-68096-1 (Continued)

Laboratory: TestAmerica Pittsburgh (Continued)

Method(s) 8270D LL: The following samples was diluted due to the nature of the sample matrix (extract viscous, dark in color): W3, S2, C 71117 (180-68096-26), W3, S3, C 71117 (180-68096-29), W3, S4, C 71117 (180-68096-32) and W3, S5, C 71117 (180-68096-36). This is the lowest dilution possible for these samples. Elevated reporting limits (RLs) are provided.

Method(s) 8270D LL: The continuing calibration verification (CCV) associated with batch 180-217242 recovered above the upper control limit for Pentachlorophenol. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method(s) 8270D LL: The continuing calibration verification (CCV) analyzed in batch 180-217242 was outside the method criteria for the following analyte(s): Benzo[g,h,i]perylene was >20% low. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals
Method(s) 6010C: The serial dilution performed for the following sample associated with prep batch 216920 was outside the control limits for manganese and zinc: W2, S1, C 71117 (180-68096-6)

Method(s) 6010C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for prep batch 216920 were outside the control limits for copper and zinc. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) 6010C: The matrix spike / matrix spike duplicate (MS/MSD) precision for prep batch 216920 was outside the control limits for manganese. Sample matrix interference and/or non-homogeneity are suspected.

Method(s) 7471B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for 217097 were outside the control limits for mercury. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Definitions/Glossary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68096-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	LCS or LCSD is outside acceptance limits.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F2	MS/MSD RPD exceeds control limits
F1	MS and/or MSD Recovery is outside acceptance limits.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

General Chemistry

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc. TestAmerica Job ID: 180-68096-1
Project/Site: Former Sperry Remington Site - North IRM

Laboratory: TestAmerica Pittsburgh

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	11182	03-31-18

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
2540G		Solid	Percent Moisture
2540G		Solid	Percent Solids
8270D LL	3541	Solid	1,4-Dioxane

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68096-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-68096-1	W1, S5, A 71117	Solid	07/11/17 10:15	07/12/17 09:10
180-68096-2	W1, S5, B 71117	Solid	07/11/17 10:20	07/12/17 09:10
180-68096-3	W1, S5, C 71117	Solid	07/11/17 10:25	07/12/17 09:10
180-68096-4	W2, S1, A 71117	Solid	07/11/17 10:45	07/12/17 09:10
180-68096-5	W2, S1, B 71117	Solid	07/11/17 10:50	07/12/17 09:10
180-68096-6	W2, S1, C 71117	Solid	07/11/17 10:55	07/12/17 09:10
180-68096-7	W2, S2, A 71117	Solid	07/11/17 11:15	07/12/17 09:10
180-68096-8	W2, S2, B 71117	Solid	07/11/17 11:20	07/12/17 09:10
180-68096-9	W2, S2, C 71117	Solid	07/11/17 11:25	07/12/17 09:10
180-68096-10	W2, S3, A 71117	Solid	07/11/17 11:45	07/12/17 09:10
180-68096-11	W2, S3, B 71117	Solid	07/11/17 11:50	07/12/17 09:10
180-68096-12	W2, S3, C 71117	Solid	07/11/17 11:55	07/12/17 09:10
180-68096-13	W2, S4, A 71117	Solid	07/11/17 12:15	07/12/17 09:10
180-68096-14	W2, S4, B 71117	Solid	07/11/17 12:20	07/12/17 09:10
180-68096-15	W2, S4, C 71117	Solid	07/11/17 12:25	07/12/17 09:10
180-68096-16	W2, S5 A 71117	Solid	07/11/17 12:45	07/12/17 09:10
180-68096-17	W2, S5 B 71117	Solid	07/11/17 12:50	07/12/17 09:10
180-68096-18	W2, S5 C 71117	Solid	07/11/17 12:55	07/12/17 09:10
180-68096-19	W3, S1 A 71117	Solid	07/11/17 13:15	07/12/17 09:10
180-68096-20	W3, S1 B 71117	Solid	07/11/17 13:20	07/12/17 09:10
180-68096-21	DUP-3	Solid	07/11/17 00:00	07/12/17 09:10
180-68096-22	DUP-4	Solid	07/11/17 00:00	07/12/17 09:10
180-68096-23	W3, S1, C 71117	Solid	07/11/17 13:25	07/12/17 09:10
180-68096-24	W3, S2, A 71117	Solid	07/11/17 13:45	07/12/17 09:10
180-68096-25	W3, S2, B 71117	Solid	07/11/17 13:50	07/12/17 09:10
180-68096-26	W3, S2, C 71117	Solid	07/11/17 13:55	07/12/17 09:10
180-68096-27	W3, S3, A 71117	Solid	07/11/17 14:15	07/12/17 09:10
180-68096-28	W3, S3, B 71117	Solid	07/11/17 14:20	07/12/17 09:10
180-68096-29	W3, S3, C 71117	Solid	07/11/17 14:25	07/12/17 09:10
180-68096-30	W3, S4, A 71117	Solid	07/11/17 14:45	07/12/17 09:10
180-68096-31	W3, S4, B 71117	Solid	07/11/17 14:50	07/12/17 09:10
180-68096-32	W3, S4, C 71117	Solid	07/11/17 14:55	07/12/17 09:10
180-68096-33	DUP-5	Solid	07/11/17 00:00	07/12/17 09:10
180-68096-34	W3, S5, A 71117	Solid	07/11/17 15:15	07/12/17 09:10
180-68096-35	W3, S5, B 71117	Solid	07/11/17 15:20	07/12/17 09:10
180-68096-36	W3, S5, C 71117	Solid	07/11/17 15:25	07/12/17 09:10
180-68096-37	TRIP BLANK 1	Water	07/11/17 00:00	07/12/17 09:10
180-68096-38	TRIP BLANK 2	Water	07/11/17 00:00	07/12/17 09:10

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68096-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL PIT
8260C	Volatile Organic Compounds (GC/MS)	SW846	TAL PIT
8270D LL	Semivolatile Organic Compounds by GC/MS - Low Level	SW846	TAL PIT
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL PIT
6010C	Metals (ICP)	SW846	TAL PIT
7471B	Mercury (CVAA)	SW846	TAL PIT
2540G	SM 2540G	SM22	TAL PIT
9014	Cyanide	SW846	TAL PIT

Protocol References:

SM22 = SM22

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68096-1

Client Sample ID: W1, S5, A 71117
Date Collected: 07/11/17 10:15
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216865	07/12/17 15:57	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W1, S5, A 71117
Date Collected: 07/11/17 10:15
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-1
Matrix: Solid
Percent Solids: 89.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.2467 g	5 mL	216904	07/13/17 06:04	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	216893	07/13/17 12:46	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W1, S5, B 71117
Date Collected: 07/11/17 10:20
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216865	07/12/17 15:57	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W1, S5, B 71117
Date Collected: 07/11/17 10:20
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-2
Matrix: Solid
Percent Solids: 89.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.2872 g	5 mL	216904	07/13/17 06:04	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	216893	07/13/17 13:08	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W1, S5, C 71117
Date Collected: 07/11/17 10:25
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216865	07/12/17 15:57	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W1, S5, C 71117
Date Collected: 07/11/17 10:25
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-3
Matrix: Solid
Percent Solids: 90.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.1 g	0.5 mL	216880	07/13/17 03:37	BAP	TAL PIT

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68096-1

Client Sample ID: W1, S5, C 71117

Lab Sample ID: 180-68096-3
Date Collected: 07/11/17 10:25
Matrix: Solid
Date Received: 07/12/17 09:10
Percent Solids: 90.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8270D LL		10	1 mL	1 mL	216940	07/13/17 19:58	DLF	TAL PIT
	Instrument ID: CH71									
Total/NA	Prep	3541			15.3 g	20.0 mL	216879	07/13/17 03:34	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	216929	07/13/17 09:31	DFE	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	216930	07/13/17 09:32	DFE	TAL PIT
Total/NA	Analysis	8082A		1			217035	07/14/17 13:47	JMO	TAL PIT
	Instrument ID: CHGC8									
Total/NA	Prep	3050B			0.99 g	100 mL	216920	07/13/17 09:05	CRM	TAL PIT
Total/NA	Analysis	6010C		1			217205	07/14/17 12:51	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.61 g	100 mL	217097	07/14/17 11:17	RJR	TAL PIT
Total/NA	Analysis	7471B		1			217252	07/17/17 09:11	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.02 g	50 mL	216972	07/13/17 12:02	JAS	TAL PIT
Total/NA	Analysis	9014		1			217087	07/13/17 15:56	JAS	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: W2, S1, A 71117

Lab Sample ID: 180-68096-4
Date Collected: 07/11/17 10:45
Matrix: Solid
Date Received: 07/12/17 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216865	07/12/17 15:57	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W2, S1, A 71117

Lab Sample ID: 180-68096-4
Date Collected: 07/11/17 10:45
Matrix: Solid
Date Received: 07/12/17 09:10
Percent Solids: 90.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.3324 g	5 mL	216904	07/13/17 06:04	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	216893	07/13/17 09:22	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W2, S1, B 71117

Lab Sample ID: 180-68096-5
Date Collected: 07/11/17 10:50
Matrix: Solid
Date Received: 07/12/17 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216865	07/12/17 15:57	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68096-1

Client Sample ID: W2, S1, B 71117
Date Collected: 07/11/17 10:50
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-5
Matrix: Solid
Percent Solids: 91.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.182 g	5 mL	216904	07/13/17 06:04	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	216893	07/13/17 13:31	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W2, S1, C 71117
Date Collected: 07/11/17 10:55
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216865	07/12/17 15:57	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W2, S1, C 71117
Date Collected: 07/11/17 10:55
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-6
Matrix: Solid
Percent Solids: 89.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.5 g	0.5 mL	216880	07/13/17 03:37	BAP	TAL PIT
Total/NA	Analysis	8270D LL		20	1 mL	1 mL	216940	07/13/17 18:37	DLF	TAL PIT
	Instrument ID: CH71									
Total/NA	Prep	3541			15.1 g	20.0 mL	216879	07/13/17 03:34	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	216929	07/13/17 09:31	DFE	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	216930	07/13/17 09:32	DFE	TAL PIT
Total/NA	Analysis	8082A		1			217035	07/14/17 14:07	JMO	TAL PIT
	Instrument ID: CHGC8									
Total/NA	Prep	3050B			1.01 g	100 mL	216920	07/13/17 09:05	CRM	TAL PIT
Total/NA	Analysis	6010C		1			217205	07/14/17 12:57	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.62 g	100 mL	217097	07/14/17 11:17	RJR	TAL PIT
Total/NA	Analysis	7471B		1			217252	07/17/17 09:13	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.05 g	50 mL	216972	07/13/17 12:02	JAS	TAL PIT
Total/NA	Analysis	9014		1			217087	07/13/17 15:58	JAS	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: W2, S2, A 71117
Date Collected: 07/11/17 11:15
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216865	07/12/17 15:57	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W2, S2, A 71117
Date Collected: 07/11/17 11:15
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-7
Matrix: Solid
Percent Solids: 88.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.9331 g	5 mL	216904	07/13/17 06:04	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	216893	07/13/17 13:54	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W2, S2, B 71117
Date Collected: 07/11/17 11:20
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216865	07/12/17 15:57	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W2, S2, B 71117
Date Collected: 07/11/17 11:20
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-8
Matrix: Solid
Percent Solids: 90.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.7244 g	5 mL	216904	07/13/17 06:04	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	216893	07/13/17 14:16	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W2, S2, C 71117
Date Collected: 07/11/17 11:25
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216865	07/12/17 15:57	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W2, S2, C 71117
Date Collected: 07/11/17 11:25
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-9
Matrix: Solid
Percent Solids: 88.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.2 g	0.5 mL	216880	07/13/17 03:37	BAP	TAL PIT
Total/NA	Analysis	8270D LL		5	1 mL	1 mL	216940	07/13/17 20:25	DLF	TAL PIT
	Instrument ID: CH71									
Total/NA	Prep	3541			15.2 g	20.0 mL	216879	07/13/17 03:34	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	216929	07/13/17 09:31	DFE	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	216930	07/13/17 09:32	DFE	TAL PIT
Total/NA	Analysis	8082A		1			217035	07/14/17 15:48	JMO	TAL PIT
	Instrument ID: CHGC8									
Total/NA	Prep	3050B			0.98 g	100 mL	216920	07/13/17 09:05	CRM	TAL PIT

Client Sample ID: W2, S2, C 71117

Lab Sample ID: 180-68096-9
Date Collected: 07/11/17 11:25
Matrix: Solid
Date Received: 07/12/17 09:10
Percent Solids: 88.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	6010C		1			217205	07/14/17 13:22	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.64 g	100 mL	217097	07/14/17 11:17	RJR	TAL PIT
Total/NA	Analysis	7471B		1			217252	07/17/17 09:19	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.05 g	50 mL	216972	07/13/17 12:02	JAS	TAL PIT
Total/NA	Analysis	9014		1			217087	07/13/17 16:07	JAS	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: W2, S3, A 71117

Lab Sample ID: 180-68096-10
Date Collected: 07/11/17 11:45
Matrix: Solid
Date Received: 07/12/17 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216865	07/12/17 15:57	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W2, S3, A 71117

Lab Sample ID: 180-68096-10
Date Collected: 07/11/17 11:45
Matrix: Solid
Date Received: 07/12/17 09:10
Percent Solids: 90.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3.4758 g	5 mL	216904	07/13/17 06:04	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	216893	07/13/17 14:39	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W2, S3, B 71117

Lab Sample ID: 180-68096-11
Date Collected: 07/11/17 11:50
Matrix: Solid
Date Received: 07/12/17 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216865	07/12/17 15:57	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W2, S3, B 71117

Lab Sample ID: 180-68096-11
Date Collected: 07/11/17 11:50
Matrix: Solid
Date Received: 07/12/17 09:10
Percent Solids: 93.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.2861 g	5 mL	216904	07/13/17 06:04	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	216893	07/13/17 15:02	KLG	TAL PIT
	Instrument ID: CHHP3									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68096-1

Client Sample ID: W2, S3, C 71117
Lab Sample ID: 180-68096-12
Date Collected: 07/11/17 11:55
Matrix: Solid
Date Received: 07/12/17 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216865	07/12/17 15:57	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W2, S3, C 71117
Lab Sample ID: 180-68096-12
Date Collected: 07/11/17 11:55
Matrix: Solid
Date Received: 07/12/17 09:10
Percent Solids: 91.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.4 g	0.5 mL	216880	07/13/17 03:37	BAP	TAL PIT
Total/NA	Analysis	8270D LL		10	1 mL	1 mL	216940	07/13/17 20:52	DLF	TAL PIT
	Instrument ID: CH71									
Total/NA	Prep	3541			15.0 g	20.0 mL	216879	07/13/17 03:34	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	216929	07/13/17 09:31	DFE	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	216930	07/13/17 09:32	DFE	TAL PIT
Total/NA	Analysis	8082A		1			217035	07/14/17 16:08	JMO	TAL PIT
	Instrument ID: CHGC8									
Total/NA	Prep	3050B			1.01 g	100 mL	216920	07/13/17 09:05	CRM	TAL PIT
Total/NA	Analysis	6010C		1			217205	07/14/17 13:37	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.66 g	100 mL	217097	07/14/17 11:17	RJR	TAL PIT
Total/NA	Analysis	7471B		1			217252	07/17/17 09:21	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.04 g	50 mL	216972	07/13/17 12:02	JAS	TAL PIT
Total/NA	Analysis	9014		1			217087	07/13/17 16:08	JAS	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: W2, S4, A 71117
Lab Sample ID: 180-68096-13
Date Collected: 07/11/17 12:15
Matrix: Solid
Date Received: 07/12/17 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216865	07/12/17 15:57	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W2, S4, A 71117
Lab Sample ID: 180-68096-13
Date Collected: 07/11/17 12:15
Matrix: Solid
Date Received: 07/12/17 09:10
Percent Solids: 90.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.8715 g	5 mL	216904	07/13/17 06:04	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	216893	07/13/17 15:24	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W2, S4, B 71117
Date Collected: 07/11/17 12:20
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216865	07/12/17 15:57	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W2, S4, B 71117
Date Collected: 07/11/17 12:20
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-14
Matrix: Solid
Percent Solids: 90.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.6002 g	5 mL	216904	07/13/17 06:04	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	216893	07/13/17 15:47	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W2, S4, C 71117
Date Collected: 07/11/17 12:25
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-15
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216865	07/12/17 15:57	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W2, S4, C 71117
Date Collected: 07/11/17 12:25
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-15
Matrix: Solid
Percent Solids: 91.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	0.5 mL	216880	07/13/17 03:37	BAP	TAL PIT
Total/NA	Analysis	8270D LL		5	1 mL	1 mL	216940	07/13/17 21:20	DLF	TAL PIT
	Instrument ID: CH71									
Total/NA	Prep	3541			15.0 g	20.0 mL	216879	07/13/17 03:34	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	216929	07/13/17 09:31	DFE	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	216930	07/13/17 09:32	DFE	TAL PIT
Total/NA	Analysis	8082A		1			217035	07/14/17 16:28	JMO	TAL PIT
	Instrument ID: CHGC8									
Total/NA	Prep	3050B			1.05 g	100 mL	216920	07/13/17 09:05	CRM	TAL PIT
Total/NA	Analysis	6010C		1			217205	07/14/17 13:42	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.61 g	100 mL	217097	07/14/17 11:17	RJR	TAL PIT
Total/NA	Analysis	7471B		1			217252	07/17/17 09:27	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.04 g	50 mL	216972	07/13/17 12:02	JAS	TAL PIT
Total/NA	Analysis	9014		1			217087	07/13/17 16:10	JAS	TAL PIT
	Instrument ID: SEAL2									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68096-1

Client Sample ID: W2, S5 A 71117
Date Collected: 07/11/17 12:45
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-16
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216865	07/12/17 15:57	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W2, S5 A 71117
Date Collected: 07/11/17 12:45
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-16
Matrix: Solid
Percent Solids: 91.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2.5438 g	5 mL	216904	07/13/17 06:04	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	216893	07/13/17 16:10	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W2, S5 B 71117
Date Collected: 07/11/17 12:50
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216865	07/12/17 15:57	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W2, S5 B 71117
Date Collected: 07/11/17 12:50
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-17
Matrix: Solid
Percent Solids: 91.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.878 g	5 mL	216904	07/13/17 06:04	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	216893	07/13/17 16:33	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W2, S5 C 71117
Date Collected: 07/11/17 12:55
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-18
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216870	07/12/17 16:42	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W2, S5 C 71117
Date Collected: 07/11/17 12:55
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-18
Matrix: Solid
Percent Solids: 91.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.1 g	0.5 mL	216880	07/13/17 03:37	BAP	TAL PIT

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68096-1

Client Sample ID: W2, S5 C 71117
Date Collected: 07/11/17 12:55
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-18
Matrix: Solid
Percent Solids: 91.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8270D LL		5	1 mL	1 mL	216940	07/13/17 21:47	DLF	TAL PIT
	Instrument ID: CH71									
Total/NA	Prep	3541			15.4 g	20.0 mL	216879	07/13/17 03:34	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	216929	07/13/17 09:31	DFE	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	216930	07/13/17 09:32	DFE	TAL PIT
Total/NA	Analysis	8082A		1			217035	07/14/17 16:48	JMO	TAL PIT
	Instrument ID: CHGC8									
Total/NA	Prep	3050B			1.05 g	100 mL	216920	07/13/17 09:05	CRM	TAL PIT
Total/NA	Analysis	6010C		1			217205	07/14/17 13:48	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.59 g	100 mL	217097	07/14/17 11:17	RJR	TAL PIT
Total/NA	Analysis	7471B		1			217252	07/17/17 09:29	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.03 g	50 mL	216972	07/13/17 12:02	JAS	TAL PIT
Total/NA	Analysis	9014		1			217087	07/13/17 16:12	JAS	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: W3, S1 A 71117
Date Collected: 07/11/17 13:15
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-19
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216870	07/12/17 16:42	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W3, S1 A 71117
Date Collected: 07/11/17 13:15
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-19
Matrix: Solid
Percent Solids: 91.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.826 g	5 mL	217187	07/16/17 09:00	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	217186	07/16/17 11:57	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W3, S1 B 71117
Date Collected: 07/11/17 13:20
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-20
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216870	07/12/17 16:42	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68096-1

Client Sample ID: W3, S1 B 71117
Date Collected: 07/11/17 13:20
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-20
Matrix: Solid
Percent Solids: 90.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3.7059 g	5 mL	217187	07/16/17 09:00	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	217186	07/16/17 19:32	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: DUP-3
Date Collected: 07/11/17 00:00
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-21
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216870	07/12/17 16:42	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: DUP-3
Date Collected: 07/11/17 00:00
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-21
Matrix: Solid
Percent Solids: 91.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.3156 g	5 mL	217187	07/16/17 09:00	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	217186	07/16/17 12:43	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: DUP-4
Date Collected: 07/11/17 00:00
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-22
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216870	07/12/17 16:42	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: DUP-4
Date Collected: 07/11/17 00:00
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-22
Matrix: Solid
Percent Solids: 91.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.1 g	0.5 mL	216880	07/13/17 03:37	BAP	TAL PIT
Total/NA	Analysis	8270D LL		5	1 mL	1 mL	216940	07/13/17 22:15	DLF	TAL PIT
	Instrument ID: CH71									
Total/NA	Prep	3541			15.1 g	20.0 mL	216879	07/13/17 03:34	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	216929	07/13/17 09:31	DFE	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	216930	07/13/17 09:32	DFE	TAL PIT
Total/NA	Analysis	8082A		1			217035	07/14/17 17:08	JMO	TAL PIT
	Instrument ID: CHGC8									
Total/NA	Prep	3050B			1.09 g	100 mL	216920	07/13/17 09:05	CRM	TAL PIT

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68096-1

Client Sample ID: DUP-4

Date Collected: 07/11/17 00:00
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-22

Matrix: Solid
Percent Solids: 91.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	6010C		1			217205	07/14/17 13:53	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.63 g	100 mL	217097	07/14/17 11:17	RJR	TAL PIT
Total/NA	Analysis	7471B		1			217252	07/17/17 09:31	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.04 g	50 mL	216972	07/13/17 12:02	JAS	TAL PIT
Total/NA	Analysis	9014		1			217087	07/13/17 16:14	JAS	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: W3, S1, C 71117

Date Collected: 07/11/17 13:25
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-23

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216870	07/12/17 16:42	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W3, S1, C 71117

Date Collected: 07/11/17 13:25
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-23

Matrix: Solid
Percent Solids: 91.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.3 g	0.5 mL	216880	07/13/17 03:37	BAP	TAL PIT
Total/NA	Analysis	8270D LL		10	1 mL	1 mL	216940	07/13/17 22:42	DLF	TAL PIT
	Instrument ID: CH71									
Total/NA	Prep	3541			15.3 g	20.0 mL	216879	07/13/17 03:34	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	216929	07/13/17 09:31	DFE	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	216930	07/13/17 09:32	DFE	TAL PIT
Total/NA	Analysis	8082A		1			217035	07/14/17 17:28	JMO	TAL PIT
	Instrument ID: CHGC8									
Total/NA	Prep	3050B			0.96 g	100 mL	216920	07/13/17 09:05	CRM	TAL PIT
Total/NA	Analysis	6010C		1			217205	07/14/17 13:58	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.74 g	100 mL	217097	07/14/17 11:17	RJR	TAL PIT
Total/NA	Analysis	7471B		1			217252	07/17/17 09:33	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.03 g	50 mL	216972	07/13/17 12:02	JAS	TAL PIT
Total/NA	Analysis	9014		1			217087	07/13/17 16:15	JAS	TAL PIT
	Instrument ID: SEAL2									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68096-1

Client Sample ID: W3, S2, A 71117
Date Collected: 07/11/17 13:45
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-24
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216870	07/12/17 16:42	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W3, S2, A 71117
Date Collected: 07/11/17 13:45
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-24
Matrix: Solid
Percent Solids: 91.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.2608 g	5 mL	217187	07/16/17 09:00	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	217186	07/16/17 13:05	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W3, S2, B 71117
Date Collected: 07/11/17 13:50
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-25
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216870	07/12/17 16:42	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W3, S2, B 71117
Date Collected: 07/11/17 13:50
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-25
Matrix: Solid
Percent Solids: 92.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.4316 g	5 mL	217187	07/16/17 09:00	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	217186	07/16/17 13:28	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W3, S2, C 71117
Date Collected: 07/11/17 13:55
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-26
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216870	07/12/17 16:42	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W3, S2, C 71117
Date Collected: 07/11/17 13:55
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-26
Matrix: Solid
Percent Solids: 91.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.2 g	0.5 mL	216880	07/13/17 03:37	BAP	TAL PIT

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68096-1

Client Sample ID: W3, S2, C 71117

Lab Sample ID: 180-68096-26
Date Collected: 07/11/17 13:55
Matrix: Solid
Date Received: 07/12/17 09:10
Percent Solids: 91.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8270D LL		10	1 mL	1 mL	217242	07/17/17 11:48	DLF	TAL PIT
	Instrument ID: CH71									
Total/NA	Prep	3541			15.2 g	20.0 mL	216879	07/13/17 03:34	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	216929	07/13/17 09:31	DFE	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	216930	07/13/17 09:32	DFE	TAL PIT
Total/NA	Analysis	8082A		1			217035	07/14/17 17:49	JMO	TAL PIT
	Instrument ID: CHGC8									
Total/NA	Prep	3050B			1.01 g	100 mL	216920	07/13/17 09:05	CRM	TAL PIT
Total/NA	Analysis	6010C		1			217205	07/14/17 14:03	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.72 g	100 mL	217097	07/14/17 11:17	RJR	TAL PIT
Total/NA	Analysis	7471B		1			217252	07/17/17 09:35	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.03 g	50 mL	216972	07/13/17 12:02	JAS	TAL PIT
Total/NA	Analysis	9014		1			217087	07/13/17 16:17	JAS	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: W3, S3, A 71117

Lab Sample ID: 180-68096-27
Date Collected: 07/11/17 14:15
Matrix: Solid
Date Received: 07/12/17 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216870	07/12/17 16:42	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W3, S3, A 71117

Lab Sample ID: 180-68096-27
Date Collected: 07/11/17 14:15
Matrix: Solid
Date Received: 07/12/17 09:10
Percent Solids: 91.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.5406 g	5 mL	217187	07/16/17 09:00	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	217186	07/16/17 13:50	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W3, S3, B 71117

Lab Sample ID: 180-68096-28
Date Collected: 07/11/17 14:20
Matrix: Solid
Date Received: 07/12/17 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216870	07/12/17 16:42	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68096-1

Client Sample ID: W3, S3, B 71117
Date Collected: 07/11/17 14:20
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-28
Matrix: Solid
Percent Solids: 89.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.0785 g	5 mL	217187	07/16/17 09:00	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	217186	07/16/17 14:13	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W3, S3, C 71117
Date Collected: 07/11/17 14:25
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-29
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216870	07/12/17 16:42	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W3, S3, C 71117
Date Collected: 07/11/17 14:25
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-29
Matrix: Solid
Percent Solids: 90.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.1 g	0.5 mL	216880	07/13/17 03:37	BAP	TAL PIT
Total/NA	Analysis	8270D LL		10	1 mL	1 mL	217242	07/17/17 12:16	DLF	TAL PIT
	Instrument ID: CH71									
Total/NA	Prep	3541			15.2 g	20.0 mL	216879	07/13/17 03:34	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	216929	07/13/17 09:31	DFE	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	216930	07/13/17 09:32	DFE	TAL PIT
Total/NA	Analysis	8082A		1			217035	07/14/17 18:09	JMO	TAL PIT
	Instrument ID: CHGC8									
Total/NA	Prep	3050B			1.07 g	100 mL	216920	07/13/17 09:05	CRM	TAL PIT
Total/NA	Analysis	6010C		1			217205	07/14/17 14:08	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.59 g	100 mL	217097	07/14/17 11:17	RJR	TAL PIT
Total/NA	Analysis	7471B		1			217252	07/17/17 09:37	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.00 g	50 mL	216972	07/13/17 12:02	JAS	TAL PIT
Total/NA	Analysis	9014		1			217087	07/13/17 16:19	JAS	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: W3, S4, A 71117
Date Collected: 07/11/17 14:45
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-30
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216870	07/12/17 16:42	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68096-1

Client Sample ID: W3, S4, A 71117
Date Collected: 07/11/17 14:45
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-30
Matrix: Solid
Percent Solids: 90.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.4037 g	5 mL	217187	07/16/17 09:00	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	217186	07/16/17 19:55	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W3, S4, B 71117
Date Collected: 07/11/17 14:50
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-31
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216870	07/12/17 16:42	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W3, S4, B 71117
Date Collected: 07/11/17 14:50
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-31
Matrix: Solid
Percent Solids: 91.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.1767 g	5 mL	217187	07/16/17 09:00	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	217186	07/16/17 14:59	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W3, S4, C 71117
Date Collected: 07/11/17 14:55
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-32
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216870	07/12/17 16:42	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W3, S4, C 71117
Date Collected: 07/11/17 14:55
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-32
Matrix: Solid
Percent Solids: 90.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	0.5 mL	216880	07/13/17 03:37	BAP	TAL PIT
Total/NA	Analysis	8270D LL		10	1 mL	1 mL	217242	07/17/17 12:43	DLF	TAL PIT
	Instrument ID: CH71									
Total/NA	Prep	3541			15.3 g	20.0 mL	216879	07/13/17 03:34	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	216929	07/13/17 09:31	DFE	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	216930	07/13/17 09:32	DFE	TAL PIT
Total/NA	Analysis	8082A		1			217035	07/14/17 18:29	JMO	TAL PIT
	Instrument ID: CHGC8									
Total/NA	Prep	3050B			1.01 g	100 mL	216920	07/13/17 09:05	CRM	TAL PIT

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68096-1

Client Sample ID: W3, S4, C 71117

Lab Sample ID: 180-68096-32
Date Collected: 07/11/17 14:55
Matrix: Solid
Date Received: 07/12/17 09:10
Percent Solids: 90.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	6010C		1			217205	07/14/17 14:13	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.68 g	100 mL	217097	07/14/17 11:17	RJR	TAL PIT
Total/NA	Analysis	7471B		1			217252	07/17/17 09:39	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.02 g	50 mL	216972	07/13/17 12:02	JAS	TAL PIT
Total/NA	Analysis	9014		1			217087	07/13/17 16:21	JAS	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: DUP-5

Lab Sample ID: 180-68096-33
Date Collected: 07/11/17 00:00
Matrix: Solid
Date Received: 07/12/17 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216870	07/12/17 16:42	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: DUP-5

Lab Sample ID: 180-68096-33
Date Collected: 07/11/17 00:00
Matrix: Solid
Date Received: 07/12/17 09:10
Percent Solids: 90.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.4988 g	5 mL	217187	07/16/17 09:00	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	217186	07/16/17 15:22	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W3, S5, A 71117

Lab Sample ID: 180-68096-34
Date Collected: 07/11/17 15:15
Matrix: Solid
Date Received: 07/12/17 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216870	07/12/17 16:42	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W3, S5, A 71117

Lab Sample ID: 180-68096-34
Date Collected: 07/11/17 15:15
Matrix: Solid
Date Received: 07/12/17 09:10
Percent Solids: 91.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.3266 g	5 mL	217050	07/13/17 10:30	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	217056	07/14/17 17:23	KLG	TAL PIT
	Instrument ID: CHHP3									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68096-1

Client Sample ID: W3, S5, B 71117
Date Collected: 07/11/17 15:20
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-35
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216870	07/12/17 16:42	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W3, S5, B 71117
Date Collected: 07/11/17 15:20
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-35
Matrix: Solid
Percent Solids: 92.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.4192 g	5 mL	217050	07/13/17 10:30	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	217056	07/14/17 17:00	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W3, S5, C 71117
Date Collected: 07/11/17 15:25
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-36
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216870	07/12/17 16:42	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W3, S5, C 71117
Date Collected: 07/11/17 15:25
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-36
Matrix: Solid
Percent Solids: 92.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	0.5 mL	216880	07/13/17 03:37	BAP	TAL PIT
Total/NA	Analysis	8270D LL		10	1 mL	1 mL	217242	07/17/17 13:11	DLF	TAL PIT
	Instrument ID: CH71									
Total/NA	Prep	3541			15.4 g	20.0 mL	216879	07/13/17 03:34	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	216929	07/13/17 09:31	DFE	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	216930	07/13/17 09:32	DFE	TAL PIT
Total/NA	Analysis	8082A		1			217035	07/14/17 18:49	JMO	TAL PIT
	Instrument ID: CHGC8									
Total/NA	Prep	3050B			1.03 g	100 mL	216920	07/13/17 09:05	CRM	TAL PIT
Total/NA	Analysis	6010C		1			217205	07/14/17 14:19	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.61 g	100 mL	217097	07/14/17 11:17	RJR	TAL PIT
Total/NA	Analysis	7471B		1			217252	07/17/17 09:41	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.00 g	50 mL	216972	07/13/17 12:02	JAS	TAL PIT
Total/NA	Analysis	9014		1			217087	07/13/17 16:22	JAS	TAL PIT
	Instrument ID: SEAL2									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68096-1

Client Sample ID: TRIP BLANK 1

Lab Sample ID: 180-68096-37
Matrix: Water
Date Collected: 07/11/17 00:00
Date Received: 07/12/17 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	217200	07/17/17 08:58	FBB	TAL PIT
	Instrument ID: CHHP5									

Client Sample ID: TRIP BLANK 2

Lab Sample ID: 180-68096-38
Matrix: Water
Date Collected: 07/11/17 00:00
Date Received: 07/12/17 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	217200	07/17/17 09:21	FBB	TAL PIT
	Instrument ID: CHHP5									

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Analyst References:

Lab: TAL PIT

Batch Type: Cleanup

DFE = David Eppinger

Batch Type: Prep

BAP = Brian Pino

CRM = Caitlin McEvoy

JAS = Joshua Schmidt

KLG = Kathy Gordon

RJR = Ron Rosenbaum

Batch Type: Analysis

DLF = Donald Ferguson

FBB = Frank Bungard

JAS = Joshua Schmidt

JMO = John Oravec

JTL = Justin Landry

KLG = Kathy Gordon

RJG = Rob Good

RJR = Ron Rosenbaum

Client Sample ID: W1, S5, A 71117

Lab Sample ID: 180-68096-1

Date Collected: 07/11/17 10:15
Matrix: Solid
Date Received: 07/12/17 09:10
Percent Solids: 89.2

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.021	0.0034	mg/Kg	☼	07/13/17 06:04	07/13/17 12:46	1
Benzene	ND		0.0053	0.0021	mg/Kg	☼	07/13/17 06:04	07/13/17 12:46	1
2-Butanone (MEK)	ND		0.0053	0.0031	mg/Kg	☼	07/13/17 06:04	07/13/17 12:46	1
Carbon tetrachloride	ND		0.0053	0.0035	mg/Kg	☼	07/13/17 06:04	07/13/17 12:46	1
Chlorobenzene	ND		0.0053	0.0017	mg/Kg	☼	07/13/17 06:04	07/13/17 12:46	1
Chloroform	ND		0.0053	0.0023	mg/Kg	☼	07/13/17 06:04	07/13/17 12:46	1
cis-1,2-Dichloroethene	ND		0.0053	0.0017	mg/Kg	☼	07/13/17 06:04	07/13/17 12:46	1
1,2-Dichlorobenzene	ND		0.0053	0.0043	mg/Kg	☼	07/13/17 06:04	07/13/17 12:46	1
1,3-Dichlorobenzene	ND		0.0053	0.0017	mg/Kg	☼	07/13/17 06:04	07/13/17 12:46	1
1,4-Dichlorobenzene	ND		0.0053	0.0011	mg/Kg	☼	07/13/17 06:04	07/13/17 12:46	1
1,1-Dichloroethane	ND		0.0053	0.0019	mg/Kg	☼	07/13/17 06:04	07/13/17 12:46	1
1,2-Dichloroethane	ND		0.0053	0.0016	mg/Kg	☼	07/13/17 06:04	07/13/17 12:46	1
1,1-Dichloroethene	ND		0.0053	0.0030	mg/Kg	☼	07/13/17 06:04	07/13/17 12:46	1
Ethylbenzene	ND		0.0053	0.0023	mg/Kg	☼	07/13/17 06:04	07/13/17 12:46	1
Methylene Chloride	ND		0.0053	0.0025	mg/Kg	☼	07/13/17 06:04	07/13/17 12:46	1
Methyl tert-butyl ether	ND		0.0053	0.0039	mg/Kg	☼	07/13/17 06:04	07/13/17 12:46	1
n-Butylbenzene	ND		0.0053	0.0040	mg/Kg	☼	07/13/17 06:04	07/13/17 12:46	1
N-Propylbenzene	ND		0.0053	0.0023	mg/Kg	☼	07/13/17 06:04	07/13/17 12:46	1
sec-Butylbenzene	ND		0.0053	0.0026	mg/Kg	☼	07/13/17 06:04	07/13/17 12:46	1
tert-Butylbenzene	ND		0.0053	0.0020	mg/Kg	☼	07/13/17 06:04	07/13/17 12:46	1
Tetrachloroethene	ND		0.0053	0.0021	mg/Kg	☼	07/13/17 06:04	07/13/17 12:46	1
Toluene	ND		0.0053	0.0018	mg/Kg	☼	07/13/17 06:04	07/13/17 12:46	1
trans-1,2-Dichloroethene	ND		0.0053	0.0027	mg/Kg	☼	07/13/17 06:04	07/13/17 12:46	1
1,1,1-Trichloroethane	ND		0.0053	0.0027	mg/Kg	☼	07/13/17 06:04	07/13/17 12:46	1
Trichloroethene	ND		0.0053	0.0016	mg/Kg	☼	07/13/17 06:04	07/13/17 12:46	1
1,2,4-Trimethylbenzene	ND		0.0053	0.0014	mg/Kg	☼	07/13/17 06:04	07/13/17 12:46	1
1,3,5-Trimethylbenzene	ND		0.0053	0.0018	mg/Kg	☼	07/13/17 06:04	07/13/17 12:46	1
Vinyl chloride	ND		0.0053	0.0039	mg/Kg	☼	07/13/17 06:04	07/13/17 12:46	1
Xylenes, Total	ND		0.011	0.0046	mg/Kg	☼	07/13/17 06:04	07/13/17 12:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*63 - 120*	*07/13/17 06:04*	*07/13/17 12:46*	*1*
Dibromofluoromethane (Surr)	*86*		*68 - 121*	*07/13/17 06:04*	*07/13/17 12:46*	*1*
1,2-Dichloroethane-d4 (Surr)	*81*		*52 - 124*	*07/13/17 06:04*	*07/13/17 12:46*	*1*
Toluene-d8 (Surr)	*104*		*72 - 127*	*07/13/17 06:04*	*07/13/17 12:46*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**10.7**		0.1	0.1	%			07/12/17 15:57	1
Percent Solids	**89.3**		0.1	0.1	%			07/12/17 15:57	1

Client Sample ID: W1, S5, B 71117

Lab Sample ID: 180-68096-2

Date Collected: 07/11/17 10:20
Matrix: Solid
Date Received: 07/12/17 09:10
Percent Solids: 89.7

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.018	0.0028	mg/Kg	☼	07/13/17 06:04	07/13/17 13:08	1
Benzene	ND		0.0044	0.0017	mg/Kg	☼	07/13/17 06:04	07/13/17 13:08	1
2-Butanone (MEK)	ND		0.0044	0.0026	mg/Kg	☼	07/13/17 06:04	07/13/17 13:08	1

Client Sample ID: W1, S5, B 71117 — Lab Sample ID: 180-68096-2

Date Collected: 07/11/17 10:20 — **Matrix: Solid**
Date Received: 07/12/17 09:10 — **Percent Solids: 89.7**

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	ND		0.0044	0.0029	mg/Kg	☼	07/13/17 06:04	07/13/17 13:08	1
Chlorobenzene	ND		0.0044	0.0014	mg/Kg	☼	07/13/17 06:04	07/13/17 13:08	1
Chloroform	ND		0.0044	0.0019	mg/Kg	☼	07/13/17 06:04	07/13/17 13:08	1
cis-1,2-Dichloroethene	ND		0.0044	0.0014	mg/Kg	☼	07/13/17 06:04	07/13/17 13:08	1
1,2-Dichlorobenzene	ND		0.0044	0.0036	mg/Kg	☼	07/13/17 06:04	07/13/17 13:08	1
1,3-Dichlorobenzene	ND		0.0044	0.0014	mg/Kg	☼	07/13/17 06:04	07/13/17 13:08	1
1,4-Dichlorobenzene	ND		0.0044	0.00090	mg/Kg	☼	07/13/17 06:04	07/13/17 13:08	1
1,1-Dichloroethane	ND		0.0044	0.0016	mg/Kg	☼	07/13/17 06:04	07/13/17 13:08	1
1,2-Dichloroethane	ND		0.0044	0.0013	mg/Kg	☼	07/13/17 06:04	07/13/17 13:08	1
1,1-Dichloroethene	ND		0.0044	0.0025	mg/Kg	☼	07/13/17 06:04	07/13/17 13:08	1
Ethylbenzene	ND		0.0044	0.0019	mg/Kg	☼	07/13/17 06:04	07/13/17 13:08	1
Methylene Chloride	ND		0.0044	0.0021	mg/Kg	☼	07/13/17 06:04	07/13/17 13:08	1
Methyl tert-butyl ether	ND		0.0044	0.0033	mg/Kg	☼	07/13/17 06:04	07/13/17 13:08	1
n-Butylbenzene	ND		0.0044	0.0034	mg/Kg	☼	07/13/17 06:04	07/13/17 13:08	1
N-Propylbenzene	ND		0.0044	0.0019	mg/Kg	☼	07/13/17 06:04	07/13/17 13:08	1
sec-Butylbenzene	ND		0.0044	0.0022	mg/Kg	☼	07/13/17 06:04	07/13/17 13:08	1
tert-Butylbenzene	ND		0.0044	0.0016	mg/Kg	☼	07/13/17 06:04	07/13/17 13:08	1
Tetrachloroethene	ND		0.0044	0.0018	mg/Kg	☼	07/13/17 06:04	07/13/17 13:08	1
Toluene	ND		0.0044	0.0015	mg/Kg	☼	07/13/17 06:04	07/13/17 13:08	1
trans-1,2-Dichloroethene	ND		0.0044	0.0022	mg/Kg	☼	07/13/17 06:04	07/13/17 13:08	1
1,1,1-Trichloroethane	ND		0.0044	0.0022	mg/Kg	☼	07/13/17 06:04	07/13/17 13:08	1
Trichloroethene	ND		0.0044	0.0013	mg/Kg	☼	07/13/17 06:04	07/13/17 13:08	1
1,2,4-Trimethylbenzene	ND		0.0044	0.0012	mg/Kg	☼	07/13/17 06:04	07/13/17 13:08	1
1,3,5-Trimethylbenzene	ND		0.0044	0.0015	mg/Kg	☼	07/13/17 06:04	07/13/17 13:08	1
Vinyl chloride	ND		0.0044	0.0033	mg/Kg	☼	07/13/17 06:04	07/13/17 13:08	1
Xylenes, Total	ND		0.0089	0.0038	mg/Kg	☼	07/13/17 06:04	07/13/17 13:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*63 - 120*	*07/13/17 06:04*	*07/13/17 13:08*	*1*
Dibromofluoromethane (Surr)	*85*		*68 - 121*	*07/13/17 06:04*	*07/13/17 13:08*	*1*
1,2-Dichloroethane-d4 (Surr)	*79*		*52 - 124*	*07/13/17 06:04*	*07/13/17 13:08*	*1*
Toluene-d8 (Surr)	*105*		*72 - 127*	*07/13/17 06:04*	*07/13/17 13:08*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**10.3**		0.1	0.1	%			07/12/17 15:57	1
Percent Solids	**89.7**		0.1	0.1	%			07/12/17 15:57	1

Client Sample ID: W1, S5, C 71117 — Lab Sample ID: 180-68096-3

Date Collected: 07/11/17 10:25 — **Matrix: Solid**
Date Received: 07/12/17 09:10 — **Percent Solids: 90.8**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.073	0.025	mg/Kg	☼	07/13/17 03:37	07/13/17 19:58	10
Acenaphthylene	**0.099**		0.073	0.025	mg/Kg	☼	07/13/17 03:37	07/13/17 19:58	10
Anthracene	**0.11**		0.073	0.027	mg/Kg	☼	07/13/17 03:37	07/13/17 19:58	10
Benzo[a]anthracene	**0.45**		0.073	0.029	mg/Kg	☼	07/13/17 03:37	07/13/17 19:58	10
Benzo[a]pyrene	**0.45**		0.073	0.030	mg/Kg	☼	07/13/17 03:37	07/13/17 19:58	10
Benzo[b]fluoranthene	**0.57**		0.073	0.032	mg/Kg	☼	07/13/17 03:37	07/13/17 19:58	10

Client Sample ID: W1, S5, C 71117 **Lab Sample ID: 180-68096-3**
Date Collected: 07/11/17 10:25 **Matrix: Solid**
Date Received: 07/12/17 09:10 **Percent Solids: 90.8**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	**0.47**		0.073	0.032	mg/Kg	☼	07/13/17 03:37	07/13/17 19:58	10
Benzo[k]fluoranthene	**0.15**		0.073	0.025	mg/Kg	☼	07/13/17 03:37	07/13/17 19:58	10
Chrysene	**0.38**		0.073	0.028	mg/Kg	☼	07/13/17 03:37	07/13/17 19:58	10
Dibenz(a,h)anthracene	**0.11**		0.073	0.030	mg/Kg	☼	07/13/17 03:37	07/13/17 19:58	10
Dibenzofuran	**0.040**	**J**	0.36	0.029	mg/Kg	☼	07/13/17 03:37	07/13/17 19:58	10
1,4-Dioxane	ND		0.73	0.055	mg/Kg	☼	07/13/17 03:37	07/13/17 19:58	10
Fluoranthene	**0.72**		0.073	0.029	mg/Kg	☼	07/13/17 03:37	07/13/17 19:58	10
Fluorene	ND		0.073	0.026	mg/Kg	☼	07/13/17 03:37	07/13/17 19:58	10
Hexachlorobenzene	ND		0.073	0.029	mg/Kg	☼	07/13/17 03:37	07/13/17 19:58	10
Indeno[1,2,3-cd]pyrene	**0.40**		0.073	0.028	mg/Kg	☼	07/13/17 03:37	07/13/17 19:58	10
2-Methylphenol	ND		0.36	0.032	mg/Kg	☼	07/13/17 03:37	07/13/17 19:58	10
Methylphenol, 3 & 4	ND		0.36	0.032	mg/Kg	☼	07/13/17 03:37	07/13/17 19:58	10
Naphthalene	**0.12**		0.073	0.026	mg/Kg	☼	07/13/17 03:37	07/13/17 19:58	10
Pentachlorophenol	ND		1.9	0.69	mg/Kg	☼	07/13/17 03:37	07/13/17 19:58	10
Phenanthrene	**0.36**		0.073	0.030	mg/Kg	☼	07/13/17 03:37	07/13/17 19:58	10
Phenol	ND		0.36	0.049	mg/Kg	☼	07/13/17 03:37	07/13/17 19:58	10
Pyrene	**0.72**		0.073	0.032	mg/Kg	☼	07/13/17 03:37	07/13/17 19:58	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*49*		*42 - 100*	*07/13/17 03:37*	*07/13/17 19:58*	*10*
2-Fluorophenol (Surr)	*48*		*21 - 107*	*07/13/17 03:37*	*07/13/17 19:58*	*10*
Nitrobenzene-d5 (Surr)	*54*		*35 - 109*	*07/13/17 03:37*	*07/13/17 19:58*	*10*
Phenol-d5 (Surr)	*42*		*29 - 105*	*07/13/17 03:37*	*07/13/17 19:58*	*10*
Terphenyl-d14 (Surr)	*54*		*36 - 113*	*07/13/17 03:37*	*07/13/17 19:58*	*10*
2,4,6-Tribromophenol (Surr)	*40*		*20 - 134*	*07/13/17 03:37*	*07/13/17 19:58*	*10*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.018	0.0095	mg/Kg	☼	07/13/17 03:34	07/14/17 13:47	1
PCB-1221	ND		0.018	0.0093	mg/Kg	☼	07/13/17 03:34	07/14/17 13:47	1
PCB-1232	ND		0.018	0.0071	mg/Kg	☼	07/13/17 03:34	07/14/17 13:47	1
PCB-1242	ND		0.018	0.014	mg/Kg	☼	07/13/17 03:34	07/14/17 13:47	1
PCB-1248	**0.63**		0.018	0.0086	mg/Kg	☼	07/13/17 03:34	07/14/17 13:47	1
PCB-1254	**0.45**		0.018	0.0079	mg/Kg	☼	07/13/17 03:34	07/14/17 13:47	1
PCB-1260	**0.15**		0.018	0.012	mg/Kg	☼	07/13/17 03:34	07/14/17 13:47	1
PCB-1262	ND		0.018	0.013	mg/Kg	☼	07/13/17 03:34	07/14/17 13:47	1
PCB-1268	ND		0.018	0.0055	mg/Kg	☼	07/13/17 03:34	07/14/17 13:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*76*		*23 - 150*	*07/13/17 03:34*	*07/14/17 13:47*	*1*
DCB Decachlorobiphenyl (Surr)	*85*		*23 - 150*	*07/13/17 03:34*	*07/14/17 13:47*	*1*
Tetrachloro-m-xylene (Surr)	*82*		*27 - 138*	*07/13/17 03:34*	*07/14/17 13:47*	*1*
Tetrachloro-m-xylene (Surr)	*73*		*27 - 138*	*07/13/17 03:34*	*07/14/17 13:47*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**5.8**		1.1	0.49	mg/Kg	☼	07/13/17 09:05	07/14/17 12:51	1
Barium	**65**		22	6.0	mg/Kg	☼	07/13/17 09:05	07/14/17 12:51	1
Beryllium	**0.30**	**J**	0.44	0.12	mg/Kg	☼	07/13/17 09:05	07/14/17 12:51	1
Cadmium	**0.16**	**J**	0.56	0.12	mg/Kg	☼	07/13/17 09:05	07/14/17 12:51	1

Client Sample ID: W1, S5, C 71117

Lab Sample ID: 180-68096-3
Date Collected: 07/11/17 10:25
Matrix: Solid
Date Received: 07/12/17 09:10
Percent Solids: 90.8

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	**8.0**		0.56	0.14	mg/Kg	☼	07/13/17 09:05	07/14/17 12:51	1
Copper	**45**		2.8	0.86	mg/Kg	☼	07/13/17 09:05	07/14/17 12:51	1
Lead	**38**		1.1	0.37	mg/Kg	☼	07/13/17 09:05	07/14/17 12:51	1
Manganese	**350**		1.7	0.45	mg/Kg	☼	07/13/17 09:05	07/14/17 12:51	1
Nickel	**14**		4.4	1.0	mg/Kg	☼	07/13/17 09:05	07/14/17 12:51	1
Selenium	ND		1.1	0.44	mg/Kg	☼	07/13/17 09:05	07/14/17 12:51	1
Silver	ND		0.56	0.18	mg/Kg	☼	07/13/17 09:05	07/14/17 12:51	1
Zinc	**72**		2.2	1.1	mg/Kg	☼	07/13/17 09:05	07/14/17 12:51	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.29**		0.036	0.0080	mg/Kg	☼	07/14/17 11:17	07/17/17 09:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.2**		0.1	0.1	%			07/12/17 15:57	1
Percent Solids	**90.8**		0.1	0.1	%			07/12/17 15:57	1
Cyanide, Total	ND		0.54	0.17	mg/Kg	☼	07/13/17 12:02	07/13/17 15:56	1

Client Sample ID: W2, S1, A 71117

Lab Sample ID: 180-68096-4
Date Collected: 07/11/17 10:45
Matrix: Solid
Date Received: 07/12/17 09:10
Percent Solids: 90.4

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.021	0.0033	mg/Kg	☼	07/13/17 06:04	07/13/17 09:22	1
Benzene	ND		0.0052	0.0020	mg/Kg	☼	07/13/17 06:04	07/13/17 09:22	1
2-Butanone (MEK)	ND		0.0052	0.0030	mg/Kg	☼	07/13/17 06:04	07/13/17 09:22	1
Carbon tetrachloride	ND		0.0052	0.0034	mg/Kg	☼	07/13/17 06:04	07/13/17 09:22	1
Chlorobenzene	ND		0.0052	0.0016	mg/Kg	☼	07/13/17 06:04	07/13/17 09:22	1
Chloroform	ND		0.0052	0.0022	mg/Kg	☼	07/13/17 06:04	07/13/17 09:22	1
cis-1,2-Dichloroethene	ND		0.0052	0.0016	mg/Kg	☼	07/13/17 06:04	07/13/17 09:22	1
1,2-Dichlorobenzene	ND		0.0052	0.0042	mg/Kg	☼	07/13/17 06:04	07/13/17 09:22	1
1,3-Dichlorobenzene	ND		0.0052	0.0017	mg/Kg	☼	07/13/17 06:04	07/13/17 09:22	1
1,4-Dichlorobenzene	ND		0.0052	0.0011	mg/Kg	☼	07/13/17 06:04	07/13/17 09:22	1
1,1-Dichloroethane	ND		0.0052	0.0019	mg/Kg	☼	07/13/17 06:04	07/13/17 09:22	1
1,2-Dichloroethane	ND		0.0052	0.0015	mg/Kg	☼	07/13/17 06:04	07/13/17 09:22	1
1,1-Dichloroethene	ND		0.0052	0.0030	mg/Kg	☼	07/13/17 06:04	07/13/17 09:22	1
Ethylbenzene	ND		0.0052	0.0022	mg/Kg	☼	07/13/17 06:04	07/13/17 09:22	1
Methylene Chloride	ND		0.0052	0.0024	mg/Kg	☼	07/13/17 06:04	07/13/17 09:22	1
Methyl tert-butyl ether	ND		0.0052	0.0038	mg/Kg	☼	07/13/17 06:04	07/13/17 09:22	1
n-Butylbenzene	ND		0.0052	0.0039	mg/Kg	☼	07/13/17 06:04	07/13/17 09:22	1
N-Propylbenzene	ND		0.0052	0.0022	mg/Kg	☼	07/13/17 06:04	07/13/17 09:22	1
sec-Butylbenzene	ND		0.0052	0.0025	mg/Kg	☼	07/13/17 06:04	07/13/17 09:22	1
tert-Butylbenzene	ND		0.0052	0.0019	mg/Kg	☼	07/13/17 06:04	07/13/17 09:22	1
Tetrachloroethene	ND		0.0052	0.0021	mg/Kg	☼	07/13/17 06:04	07/13/17 09:22	1
Toluene	ND		0.0052	0.0017	mg/Kg	☼	07/13/17 06:04	07/13/17 09:22	1
trans-1,2-Dichloroethene	ND		0.0052	0.0026	mg/Kg	☼	07/13/17 06:04	07/13/17 09:22	1
1,1,1-Trichloroethane	ND		0.0052	0.0026	mg/Kg	☼	07/13/17 06:04	07/13/17 09:22	1
Trichloroethene	ND		0.0052	0.0016	mg/Kg	☼	07/13/17 06:04	07/13/17 09:22	1

Client Sample ID: W2, S1, A 71117

Lab Sample ID: 180-68096-4
Date Collected: 07/11/17 10:45
Matrix: Solid
Date Received: 07/12/17 09:10
Percent Solids: 90.4

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	ND		0.0052	0.0014	mg/Kg	☼	07/13/17 06:04	07/13/17 09:22	1
1,3,5-Trimethylbenzene	ND		0.0052	0.0018	mg/Kg	☼	07/13/17 06:04	07/13/17 09:22	1
Vinyl chloride	ND		0.0052	0.0038	mg/Kg	☼	07/13/17 06:04	07/13/17 09:22	1
Xylenes, Total	ND		0.010	0.0045	mg/Kg	☼	07/13/17 06:04	07/13/17 09:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*63 - 120*	*07/13/17 06:04*	*07/13/17 09:22*	*1*
Dibromofluoromethane (Surr)	*91*		*68 - 121*	*07/13/17 06:04*	*07/13/17 09:22*	*1*
1,2-Dichloroethane-d4 (Surr)	*84*		*52 - 124*	*07/13/17 06:04*	*07/13/17 09:22*	*1*
Toluene-d8 (Surr)	*113*		*72 - 127*	*07/13/17 06:04*	*07/13/17 09:22*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.6**		0.1	0.1	%			07/12/17 15:57	1
Percent Solids	**90.4**		0.1	0.1	%			07/12/17 15:57	1

Client Sample ID: W2, S1, B 71117

Lab Sample ID: 180-68096-5
Date Collected: 07/11/17 10:50
Matrix: Solid
Date Received: 07/12/17 09:10
Percent Solids: 91.9

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.018	0.0028	mg/Kg	☼	07/13/17 06:04	07/13/17 13:31	1
Benzene	ND		0.0044	0.0017	mg/Kg	☼	07/13/17 06:04	07/13/17 13:31	1
2-Butanone (MEK)	ND		0.0044	0.0026	mg/Kg	☼	07/13/17 06:04	07/13/17 13:31	1
Carbon tetrachloride	ND		0.0044	0.0029	mg/Kg	☼	07/13/17 06:04	07/13/17 13:31	1
Chlorobenzene	ND		0.0044	0.0014	mg/Kg	☼	07/13/17 06:04	07/13/17 13:31	1
Chloroform	ND		0.0044	0.0019	mg/Kg	☼	07/13/17 06:04	07/13/17 13:31	1
cis-1,2-Dichloroethene	ND		0.0044	0.0014	mg/Kg	☼	07/13/17 06:04	07/13/17 13:31	1
1,2-Dichlorobenzene	ND		0.0044	0.0035	mg/Kg	☼	07/13/17 06:04	07/13/17 13:31	1
1,3-Dichlorobenzene	ND		0.0044	0.0014	mg/Kg	☼	07/13/17 06:04	07/13/17 13:31	1
1,4-Dichlorobenzene	ND		0.0044	0.00090	mg/Kg	☼	07/13/17 06:04	07/13/17 13:31	1
1,1-Dichloroethane	ND		0.0044	0.0016	mg/Kg	☼	07/13/17 06:04	07/13/17 13:31	1
1,2-Dichloroethane	ND		0.0044	0.0013	mg/Kg	☼	07/13/17 06:04	07/13/17 13:31	1
1,1-Dichloroethene	ND		0.0044	0.0025	mg/Kg	☼	07/13/17 06:04	07/13/17 13:31	1
Ethylbenzene	ND		0.0044	0.0019	mg/Kg	☼	07/13/17 06:04	07/13/17 13:31	1
Methylene Chloride	ND		0.0044	0.0021	mg/Kg	☼	07/13/17 06:04	07/13/17 13:31	1
Methyl tert-butyl ether	ND		0.0044	0.0032	mg/Kg	☼	07/13/17 06:04	07/13/17 13:31	1
n-Butylbenzene	ND		0.0044	0.0033	mg/Kg	☼	07/13/17 06:04	07/13/17 13:31	1
N-Propylbenzene	ND		0.0044	0.0019	mg/Kg	☼	07/13/17 06:04	07/13/17 13:31	1
sec-Butylbenzene	ND		0.0044	0.0021	mg/Kg	☼	07/13/17 06:04	07/13/17 13:31	1
tert-Butylbenzene	ND		0.0044	0.0016	mg/Kg	☼	07/13/17 06:04	07/13/17 13:31	1
Tetrachloroethene	ND		0.0044	0.0018	mg/Kg	☼	07/13/17 06:04	07/13/17 13:31	1
Toluene	ND		0.0044	0.0015	mg/Kg	☼	07/13/17 06:04	07/13/17 13:31	1
trans-1,2-Dichloroethene	ND		0.0044	0.0022	mg/Kg	☼	07/13/17 06:04	07/13/17 13:31	1
1,1,1-Trichloroethane	ND		0.0044	0.0022	mg/Kg	☼	07/13/17 06:04	07/13/17 13:31	1
Trichloroethene	ND		0.0044	0.0013	mg/Kg	☼	07/13/17 06:04	07/13/17 13:31	1
1,2,4-Trimethylbenzene	ND		0.0044	0.0012	mg/Kg	☼	07/13/17 06:04	07/13/17 13:31	1
1,3,5-Trimethylbenzene	ND		0.0044	0.0015	mg/Kg	☼	07/13/17 06:04	07/13/17 13:31	1
Vinyl chloride	ND		0.0044	0.0032	mg/Kg	☼	07/13/17 06:04	07/13/17 13:31	1

Client Sample ID: W2, S1, B 71117

Lab Sample ID: 180-68096-5
Date Collected: 07/11/17 10:50
Matrix: Solid
Date Received: 07/12/17 09:10
Percent Solids: 91.9

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	ND		0.0088	0.0038	mg/Kg	☼	07/13/17 06:04	07/13/17 13:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*63 - 120*	*07/13/17 06:04*	*07/13/17 13:31*	*1*
Dibromofluoromethane (Surr)	*89*		*68 - 121*	*07/13/17 06:04*	*07/13/17 13:31*	*1*
1,2-Dichloroethane-d4 (Surr)	*83*		*52 - 124*	*07/13/17 06:04*	*07/13/17 13:31*	*1*
Toluene-d8 (Surr)	*110*		*72 - 127*	*07/13/17 06:04*	*07/13/17 13:31*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**8.1**		0.1	0.1	%			07/12/17 15:57	1
Percent Solids	**91.9**		0.1	0.1	%			07/12/17 15:57	1

Client Sample ID: W2, S1, C 71117

Lab Sample ID: 180-68096-6
Date Collected: 07/11/17 10:55
Matrix: Solid
Date Received: 07/12/17 09:10
Percent Solids: 89.8

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.14	0.048	mg/Kg	☼	07/13/17 03:37	07/13/17 18:37	20
Acenaphthylene	**0.12**	**J F2**	0.14	0.049	mg/Kg	☼	07/13/17 03:37	07/13/17 18:37	20
Anthracene	**0.15**	**F2**	0.14	0.053	mg/Kg	☼	07/13/17 03:37	07/13/17 18:37	20
Benzo[a]anthracene	**0.59**	**F2 F1**	0.14	0.057	mg/Kg	☼	07/13/17 03:37	07/13/17 18:37	20
Benzo[a]pyrene	**0.61**	**F2 F1**	0.14	0.060	mg/Kg	☼	07/13/17 03:37	07/13/17 18:37	20
Benzo[b]fluoranthene	**0.78**	**F2 F1**	0.14	0.062	mg/Kg	☼	07/13/17 03:37	07/13/17 18:37	20
Benzo[g,h,i]perylene	**0.55**	**F2 F1**	0.14	0.062	mg/Kg	☼	07/13/17 03:37	07/13/17 18:37	20
Benzo[k]fluoranthene	**0.21**	**F2 F1**	0.14	0.050	mg/Kg	☼	07/13/17 03:37	07/13/17 18:37	20
Chrysene	**0.62**	**F2**	0.14	0.056	mg/Kg	☼	07/13/17 03:37	07/13/17 18:37	20
Dibenz(a,h)anthracene	**0.12**	**J**	0.14	0.060	mg/Kg	☼	07/13/17 03:37	07/13/17 18:37	20
Dibenzofuran	ND		0.71	0.058	mg/Kg	☼	07/13/17 03:37	07/13/17 18:37	20
1,4-Dioxane	ND	F2	1.4	0.11	mg/Kg	☼	07/13/17 03:37	07/13/17 18:37	20
Fluoranthene	**0.93**	**F2 F1**	0.14	0.057	mg/Kg	☼	07/13/17 03:37	07/13/17 18:37	20
Fluorene	ND	F2	0.14	0.051	mg/Kg	☼	07/13/17 03:37	07/13/17 18:37	20
Hexachlorobenzene	ND		0.14	0.058	mg/Kg	☼	07/13/17 03:37	07/13/17 18:37	20
Indeno[1,2,3-cd]pyrene	**0.50**	**F2 F1**	0.14	0.056	mg/Kg	☼	07/13/17 03:37	07/13/17 18:37	20
2-Methylphenol	ND		0.71	0.063	mg/Kg	☼	07/13/17 03:37	07/13/17 18:37	20
Methylphenol, 3 & 4	ND		0.71	0.064	mg/Kg	☼	07/13/17 03:37	07/13/17 18:37	20
Naphthalene	**0.16**		0.14	0.052	mg/Kg	☼	07/13/17 03:37	07/13/17 18:37	20
Pentachlorophenol	ND	F1	3.7	1.4	mg/Kg	☼	07/13/17 03:37	07/13/17 18:37	20
Phenanthrene	**0.43**	**F2 F1**	0.14	0.060	mg/Kg	☼	07/13/17 03:37	07/13/17 18:37	20
Phenol	ND		0.71	0.097	mg/Kg	☼	07/13/17 03:37	07/13/17 18:37	20
Pyrene	**0.92**	**F2 F1**	0.14	0.064	mg/Kg	☼	07/13/17 03:37	07/13/17 18:37	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*70*		*42 - 100*	*07/13/17 03:37*	*07/13/17 18:37*	*20*
2-Fluorophenol (Surr)	*61*		*21 - 107*	*07/13/17 03:37*	*07/13/17 18:37*	*20*
Nitrobenzene-d5 (Surr)	*75*		*35 - 109*	*07/13/17 03:37*	*07/13/17 18:37*	*20*
Phenol-d5 (Surr)	*61*		*29 - 105*	*07/13/17 03:37*	*07/13/17 18:37*	*20*
Terphenyl-d14 (Surr)	*87*		*36 - 113*	*07/13/17 03:37*	*07/13/17 18:37*	*20*
2,4,6-Tribromophenol (Surr)	*47*		*20 - 134*	*07/13/17 03:37*	*07/13/17 18:37*	*20*

Client Sample ID: W2, S1, C 71117 — Lab Sample ID: 180-68096-6

Date Collected: 07/11/17 10:55 — **Matrix: Solid**
Date Received: 07/12/17 09:10 — **Percent Solids: 89.8**

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.018	0.0098	mg/Kg	☼	07/13/17 03:34	07/14/17 14:07	1
PCB-1221	ND		0.018	0.0095	mg/Kg	☼	07/13/17 03:34	07/14/17 14:07	1
PCB-1232	ND		0.018	0.0073	mg/Kg	☼	07/13/17 03:34	07/14/17 14:07	1
PCB-1242	ND		0.018	0.015	mg/Kg	☼	07/13/17 03:34	07/14/17 14:07	1
PCB-1248	**0.84**		0.018	0.0088	mg/Kg	☼	07/13/17 03:34	07/14/17 14:07	1
PCB-1254	**0.64**		0.018	0.0081	mg/Kg	☼	07/13/17 03:34	07/14/17 14:07	1
PCB-1260	**0.19**		0.018	0.012	mg/Kg	☼	07/13/17 03:34	07/14/17 14:07	1
PCB-1262	ND		0.018	0.013	mg/Kg	☼	07/13/17 03:34	07/14/17 14:07	1
PCB-1268	ND		0.018	0.0056	mg/Kg	☼	07/13/17 03:34	07/14/17 14:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*81*		*23 - 150*	*07/13/17 03:34*	*07/14/17 14:07*	*1*
DCB Decachlorobiphenyl (Surr)	*90*		*23 - 150*	*07/13/17 03:34*	*07/14/17 14:07*	*1*
Tetrachloro-m-xylene (Surr)	*90*		*27 - 138*	*07/13/17 03:34*	*07/14/17 14:07*	*1*
Tetrachloro-m-xylene (Surr)	*79*		*27 - 138*	*07/13/17 03:34*	*07/14/17 14:07*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**6.6**		1.1	0.49	mg/Kg	☼	07/13/17 09:05	07/14/17 12:57	1
Barium	**84**		22	5.9	mg/Kg	☼	07/13/17 09:05	07/14/17 12:57	1
Beryllium	**0.35**	**J**	0.44	0.12	mg/Kg	☼	07/13/17 09:05	07/14/17 12:57	1
Cadmium	**0.24**	**J**	0.55	0.12	mg/Kg	☼	07/13/17 09:05	07/14/17 12:57	1
Chromium	**10**		0.55	0.14	mg/Kg	☼	07/13/17 09:05	07/14/17 12:57	1
Copper	**26**	**F1**	2.8	0.85	mg/Kg	☼	07/13/17 09:05	07/14/17 12:57	1
Lead	**33**		1.1	0.36	mg/Kg	☼	07/13/17 09:05	07/14/17 12:57	1
Manganese	**800**	**F2**	1.7	0.45	mg/Kg	☼	07/13/17 09:05	07/14/17 12:57	1
Nickel	**19**		4.4	0.99	mg/Kg	☼	07/13/17 09:05	07/14/17 12:57	1
Selenium	**0.47**	**J**	1.1	0.44	mg/Kg	☼	07/13/17 09:05	07/14/17 12:57	1
Silver	ND		0.55	0.18	mg/Kg	☼	07/13/17 09:05	07/14/17 12:57	1
Zinc	**76**	**F1**	2.2	1.1	mg/Kg	☼	07/13/17 09:05	07/14/17 12:57	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.41**	**F1**	0.036	0.0080	mg/Kg	☼	07/14/17 11:17	07/17/17 09:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**10.2**		0.1	0.1	%			07/12/17 15:57	1
Percent Solids	**89.8**		0.1	0.1	%			07/12/17 15:57	1
Cyanide, Total	ND		0.53	0.16	mg/Kg	☼	07/13/17 12:02	07/13/17 15:58	1

Client Sample ID: W2, S2, A 71117 — Lab Sample ID: 180-68096-7

Date Collected: 07/11/17 11:15 — **Matrix: Solid**
Date Received: 07/12/17 09:10 — **Percent Solids: 88.9**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.019	0.0030	mg/Kg	☼	07/13/17 06:04	07/13/17 13:54	1
Benzene	ND		0.0047	0.0019	mg/Kg	☼	07/13/17 06:04	07/13/17 13:54	1
2-Butanone (MEK)	ND		0.0047	0.0027	mg/Kg	☼	07/13/17 06:04	07/13/17 13:54	1
Carbon tetrachloride	ND		0.0047	0.0031	mg/Kg	☼	07/13/17 06:04	07/13/17 13:54	1

Client Sample ID: W2, S2, A 71117

Lab Sample ID: 180-68096-7
Date Collected: 07/11/17 11:15
Matrix: Solid
Date Received: 07/12/17 09:10
Percent Solids: 88.9

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	ND		0.0047	0.0015	mg/Kg	☼	07/13/17 06:04	07/13/17 13:54	1
Chloroform	ND		0.0047	0.0020	mg/Kg	☼	07/13/17 06:04	07/13/17 13:54	1
cis-1,2-Dichloroethene	ND		0.0047	0.0015	mg/Kg	☼	07/13/17 06:04	07/13/17 13:54	1
1,2-Dichlorobenzene	ND		0.0047	0.0038	mg/Kg	☼	07/13/17 06:04	07/13/17 13:54	1
1,3-Dichlorobenzene	ND		0.0047	0.0015	mg/Kg	☼	07/13/17 06:04	07/13/17 13:54	1
1,4-Dichlorobenzene	ND		0.0047	0.00097	mg/Kg	☼	07/13/17 06:04	07/13/17 13:54	1
1,1-Dichloroethane	ND		0.0047	0.0017	mg/Kg	☼	07/13/17 06:04	07/13/17 13:54	1
1,2-Dichloroethane	ND		0.0047	0.0014	mg/Kg	☼	07/13/17 06:04	07/13/17 13:54	1
1,1-Dichloroethene	ND		0.0047	0.0027	mg/Kg	☼	07/13/17 06:04	07/13/17 13:54	1
Ethylbenzene	ND		0.0047	0.0020	mg/Kg	☼	07/13/17 06:04	07/13/17 13:54	1
Methylene Chloride	ND		0.0047	0.0022	mg/Kg	☼	07/13/17 06:04	07/13/17 13:54	1
Methyl tert-butyl ether	ND		0.0047	0.0035	mg/Kg	☼	07/13/17 06:04	07/13/17 13:54	1
n-Butylbenzene	ND		0.0047	0.0036	mg/Kg	☼	07/13/17 06:04	07/13/17 13:54	1
N-Propylbenzene	ND		0.0047	0.0020	mg/Kg	☼	07/13/17 06:04	07/13/17 13:54	1
sec-Butylbenzene	ND		0.0047	0.0023	mg/Kg	☼	07/13/17 06:04	07/13/17 13:54	1
tert-Butylbenzene	ND		0.0047	0.0017	mg/Kg	☼	07/13/17 06:04	07/13/17 13:54	1
Tetrachloroethene	ND		0.0047	0.0019	mg/Kg	☼	07/13/17 06:04	07/13/17 13:54	1
Toluene	ND		0.0047	0.0016	mg/Kg	☼	07/13/17 06:04	07/13/17 13:54	1
trans-1,2-Dichloroethene	ND		0.0047	0.0024	mg/Kg	☼	07/13/17 06:04	07/13/17 13:54	1
1,1,1-Trichloroethane	ND		0.0047	0.0024	mg/Kg	☼	07/13/17 06:04	07/13/17 13:54	1
Trichloroethene	ND		0.0047	0.0014	mg/Kg	☼	07/13/17 06:04	07/13/17 13:54	1
1,2,4-Trimethylbenzene	ND		0.0047	0.0013	mg/Kg	☼	07/13/17 06:04	07/13/17 13:54	1
1,3,5-Trimethylbenzene	ND		0.0047	0.0016	mg/Kg	☼	07/13/17 06:04	07/13/17 13:54	1
Vinyl chloride	ND		0.0047	0.0035	mg/Kg	☼	07/13/17 06:04	07/13/17 13:54	1
Xylenes, Total	ND		0.0095	0.0041	mg/Kg	☼	07/13/17 06:04	07/13/17 13:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*63 - 120*	*07/13/17 06:04*	*07/13/17 13:54*	*1*
Dibromofluoromethane (Surr)	*89*		*68 - 121*	*07/13/17 06:04*	*07/13/17 13:54*	*1*
1,2-Dichloroethane-d4 (Surr)	*84*		*52 - 124*	*07/13/17 06:04*	*07/13/17 13:54*	*1*
Toluene-d8 (Surr)	*110*		*72 - 127*	*07/13/17 06:04*	*07/13/17 13:54*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**11.1**		0.1	0.1	%			07/12/17 15:57	1
Percent Solids	**88.9**		0.1	0.1	%			07/12/17 15:57	1

Client Sample ID: W2, S2, B 71117

Lab Sample ID: 180-68096-8
Date Collected: 07/11/17 11:20
Matrix: Solid
Date Received: 07/12/17 09:10
Percent Solids: 90.6

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.016	0.0026	mg/Kg	☼	07/13/17 06:04	07/13/17 14:16	1
Benzene	ND		0.0041	0.0016	mg/Kg	☼	07/13/17 06:04	07/13/17 14:16	1
2-Butanone (MEK)	ND		0.0041	0.0024	mg/Kg	☼	07/13/17 06:04	07/13/17 14:16	1
Carbon tetrachloride	ND		0.0041	0.0027	mg/Kg	☼	07/13/17 06:04	07/13/17 14:16	1
Chlorobenzene	ND		0.0041	0.0013	mg/Kg	☼	07/13/17 06:04	07/13/17 14:16	1
Chloroform	ND		0.0041	0.0017	mg/Kg	☼	07/13/17 06:04	07/13/17 14:16	1
cis-1,2-Dichloroethene	ND		0.0041	0.0013	mg/Kg	☼	07/13/17 06:04	07/13/17 14:16	1

Client Sample ID: W2, S2, B 71117

Lab Sample ID: 180-68096-8
Date Collected: 07/11/17 11:20
Matrix: Solid
Date Received: 07/12/17 09:10
Percent Solids: 90.6

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		0.0041	0.0033	mg/Kg	☼	07/13/17 06:04	07/13/17 14:16	1
1,3-Dichlorobenzene	ND		0.0041	0.0013	mg/Kg	☼	07/13/17 06:04	07/13/17 14:16	1
1,4-Dichlorobenzene	ND		0.0041	0.00084	mg/Kg	☼	07/13/17 06:04	07/13/17 14:16	1
1,1-Dichloroethane	ND		0.0041	0.0015	mg/Kg	☼	07/13/17 06:04	07/13/17 14:16	1
1,2-Dichloroethane	ND		0.0041	0.0012	mg/Kg	☼	07/13/17 06:04	07/13/17 14:16	1
1,1-Dichloroethene	ND		0.0041	0.0023	mg/Kg	☼	07/13/17 06:04	07/13/17 14:16	1
Ethylbenzene	ND		0.0041	0.0018	mg/Kg	☼	07/13/17 06:04	07/13/17 14:16	1
Methylene Chloride	ND		0.0041	0.0019	mg/Kg	☼	07/13/17 06:04	07/13/17 14:16	1
Methyl tert-butyl ether	ND		0.0041	0.0030	mg/Kg	☼	07/13/17 06:04	07/13/17 14:16	1
n-Butylbenzene	ND		0.0041	0.0031	mg/Kg	☼	07/13/17 06:04	07/13/17 14:16	1
N-Propylbenzene	ND		0.0041	0.0017	mg/Kg	☼	07/13/17 06:04	07/13/17 14:16	1
sec-Butylbenzene	ND		0.0041	0.0020	mg/Kg	☼	07/13/17 06:04	07/13/17 14:16	1
tert-Butylbenzene	ND		0.0041	0.0015	mg/Kg	☼	07/13/17 06:04	07/13/17 14:16	1
Tetrachloroethene	ND		0.0041	0.0016	mg/Kg	☼	07/13/17 06:04	07/13/17 14:16	1
Toluene	ND		0.0041	0.0014	mg/Kg	☼	07/13/17 06:04	07/13/17 14:16	1
trans-1,2-Dichloroethene	ND		0.0041	0.0021	mg/Kg	☼	07/13/17 06:04	07/13/17 14:16	1
1,1,1-Trichloroethane	ND		0.0041	0.0021	mg/Kg	☼	07/13/17 06:04	07/13/17 14:16	1
Trichloroethene	ND		0.0041	0.0012	mg/Kg	☼	07/13/17 06:04	07/13/17 14:16	1
1,2,4-Trimethylbenzene	ND		0.0041	0.0011	mg/Kg	☼	07/13/17 06:04	07/13/17 14:16	1
1,3,5-Trimethylbenzene	ND		0.0041	0.0014	mg/Kg	☼	07/13/17 06:04	07/13/17 14:16	1
Vinyl chloride	ND		0.0041	0.0030	mg/Kg	☼	07/13/17 06:04	07/13/17 14:16	1
Xylenes, Total	ND		0.0082	0.0035	mg/Kg	☼	07/13/17 06:04	07/13/17 14:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*63 - 120*	*07/13/17 06:04*	*07/13/17 14:16*	*1*
Dibromofluoromethane (Surr)	*87*		*68 - 121*	*07/13/17 06:04*	*07/13/17 14:16*	*1*
1,2-Dichloroethane-d4 (Surr)	*81*		*52 - 124*	*07/13/17 06:04*	*07/13/17 14:16*	*1*
Toluene-d8 (Surr)	*110*		*72 - 127*	*07/13/17 06:04*	*07/13/17 14:16*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.4**		0.1	0.1	%			07/12/17 15:57	1
Percent Solids	**90.6**		0.1	0.1	%			07/12/17 15:57	1

Client Sample ID: W2, S2, C 71117

Lab Sample ID: 180-68096-9
Date Collected: 07/11/17 11:25
Matrix: Solid
Date Received: 07/12/17 09:10
Percent Solids: 88.2

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.038	0.013	mg/Kg	☼	07/13/17 03:37	07/13/17 20:25	5
Acenaphthylene	**0.15**		0.038	0.013	mg/Kg	☼	07/13/17 03:37	07/13/17 20:25	5
Anthracene	**0.19**		0.038	0.014	mg/Kg	☼	07/13/17 03:37	07/13/17 20:25	5
Benzo[a]anthracene	**0.51**		0.038	0.015	mg/Kg	☼	07/13/17 03:37	07/13/17 20:25	5
Benzo[a]pyrene	**0.55**		0.038	0.015	mg/Kg	☼	07/13/17 03:37	07/13/17 20:25	5
Benzo[b]fluoranthene	**0.63**		0.038	0.016	mg/Kg	☼	07/13/17 03:37	07/13/17 20:25	5
Benzo[g,h,i]perylene	**0.68**		0.038	0.016	mg/Kg	☼	07/13/17 03:37	07/13/17 20:25	5
Benzo[k]fluoranthene	**0.29**		0.038	0.013	mg/Kg	☼	07/13/17 03:37	07/13/17 20:25	5
Chrysene	**0.47**		0.038	0.015	mg/Kg	☼	07/13/17 03:37	07/13/17 20:25	5
Dibenz(a,h)anthracene	**0.16**		0.038	0.015	mg/Kg	☼	07/13/17 03:37	07/13/17 20:25	5

Client Sample ID: W2, S2, C 71117
Date Collected: 07/11/17 11:25
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-9
Matrix: Solid
Percent Solids: 88.2

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenzofuran	**0.049**	**J**	0.18	0.015	mg/Kg	☼	07/13/17 03:37	07/13/17 20:25	5
1,4-Dioxane	ND		0.37	0.028	mg/Kg	☼	07/13/17 03:37	07/13/17 20:25	5
Fluoranthene	**0.84**		0.038	0.015	mg/Kg	☼	07/13/17 03:37	07/13/17 20:25	5
Fluorene	**0.032**	**J**	0.038	0.013	mg/Kg	☼	07/13/17 03:37	07/13/17 20:25	5
Hexachlorobenzene	ND		0.038	0.015	mg/Kg	☼	07/13/17 03:37	07/13/17 20:25	5
Indeno[1,2,3-cd]pyrene	**0.55**		0.038	0.014	mg/Kg	☼	07/13/17 03:37	07/13/17 20:25	5
2-Methylphenol	ND		0.18	0.016	mg/Kg	☼	07/13/17 03:37	07/13/17 20:25	5
Methylphenol, 3 & 4	ND		0.18	0.017	mg/Kg	☼	07/13/17 03:37	07/13/17 20:25	5
Naphthalene	**0.17**		0.038	0.013	mg/Kg	☼	07/13/17 03:37	07/13/17 20:25	5
Pentachlorophenol	ND		0.95	0.35	mg/Kg	☼	07/13/17 03:37	07/13/17 20:25	5
Phenanthrene	**0.35**		0.038	0.016	mg/Kg	☼	07/13/17 03:37	07/13/17 20:25	5
Phenol	ND		0.18	0.025	mg/Kg	☼	07/13/17 03:37	07/13/17 20:25	5
Pyrene	**0.72**		0.038	0.017	mg/Kg	☼	07/13/17 03:37	07/13/17 20:25	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*59*		*42 - 100*	*07/13/17 03:37*	*07/13/17 20:25*	*5*
2-Fluorophenol (Surr)	*59*		*21 - 107*	*07/13/17 03:37*	*07/13/17 20:25*	*5*
Nitrobenzene-d5 (Surr)	*66*		*35 - 109*	*07/13/17 03:37*	*07/13/17 20:25*	*5*
Phenol-d5 (Surr)	*51*		*29 - 105*	*07/13/17 03:37*	*07/13/17 20:25*	*5*
Terphenyl-d14 (Surr)	*60*		*36 - 113*	*07/13/17 03:37*	*07/13/17 20:25*	*5*
2,4,6-Tribromophenol (Surr)	*58*		*20 - 134*	*07/13/17 03:37*	*07/13/17 20:25*	*5*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.019	0.0099	mg/Kg	☼	07/13/17 03:34	07/14/17 15:48	1
PCB-1221	ND		0.019	0.0097	mg/Kg	☼	07/13/17 03:34	07/14/17 15:48	1
PCB-1232	ND		0.019	0.0074	mg/Kg	☼	07/13/17 03:34	07/14/17 15:48	1
PCB-1242	ND		0.019	0.015	mg/Kg	☼	07/13/17 03:34	07/14/17 15:48	1
PCB-1248	**0.74**		0.019	0.0089	mg/Kg	☼	07/13/17 03:34	07/14/17 15:48	1
PCB-1254	**0.52**		0.019	0.0082	mg/Kg	☼	07/13/17 03:34	07/14/17 15:48	1
PCB-1260	**0.20**		0.019	0.012	mg/Kg	☼	07/13/17 03:34	07/14/17 15:48	1
PCB-1262	ND		0.019	0.013	mg/Kg	☼	07/13/17 03:34	07/14/17 15:48	1
PCB-1268	ND		0.019	0.0057	mg/Kg	☼	07/13/17 03:34	07/14/17 15:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*83*		*23 - 150*	*07/13/17 03:34*	*07/14/17 15:48*	*1*
DCB Decachlorobiphenyl (Surr)	*95*		*23 - 150*	*07/13/17 03:34*	*07/14/17 15:48*	*1*
Tetrachloro-m-xylene (Surr)	*89*		*27 - 138*	*07/13/17 03:34*	*07/14/17 15:48*	*1*
Tetrachloro-m-xylene (Surr)	*79*		*27 - 138*	*07/13/17 03:34*	*07/14/17 15:48*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**5.8**		1.2	0.51	mg/Kg	☼	07/13/17 09:05	07/14/17 13:22	1
Barium	**77**		23	6.2	mg/Kg	☼	07/13/17 09:05	07/14/17 13:22	1
Beryllium	**0.31**	**J**	0.46	0.12	mg/Kg	☼	07/13/17 09:05	07/14/17 13:22	1
Cadmium	**0.16**	**J**	0.58	0.13	mg/Kg	☼	07/13/17 09:05	07/14/17 13:22	1
Chromium	**8.5**		0.58	0.15	mg/Kg	☼	07/13/17 09:05	07/14/17 13:22	1
Copper	**28**		2.9	0.89	mg/Kg	☼	07/13/17 09:05	07/14/17 13:22	1
Lead	**40**		1.2	0.38	mg/Kg	☼	07/13/17 09:05	07/14/17 13:22	1
Manganese	**320**		1.7	0.47	mg/Kg	☼	07/13/17 09:05	07/14/17 13:22	1

Client Sample ID: W2, S2, C 71117

Lab Sample ID: 180-68096-9
Date Collected: 07/11/17 11:25
Matrix: Solid
Date Received: 07/12/17 09:10
Percent Solids: 88.2

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	15		4.6	1.0	mg/Kg	☼	07/13/17 09:05	07/14/17 13:22	1
Selenium	0.51	J	1.2	0.46	mg/Kg	☼	07/13/17 09:05	07/14/17 13:22	1
Silver	ND		0.58	0.19	mg/Kg	☼	07/13/17 09:05	07/14/17 13:22	1
Zinc	76		2.3	1.2	mg/Kg	☼	07/13/17 09:05	07/14/17 13:22	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.42		0.035	0.0079	mg/Kg	☼	07/14/17 11:17	07/17/17 09:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	11.8		0.1	0.1	%			07/12/17 15:57	1
Percent Solids	88.2		0.1	0.1	%			07/12/17 15:57	1
Cyanide, Total	ND		0.54	0.17	mg/Kg	☼	07/13/17 12:02	07/13/17 16:07	1

Client Sample ID: W2, S3, A 71117

Lab Sample ID: 180-68096-10
Date Collected: 07/11/17 11:45
Matrix: Solid
Date Received: 07/12/17 09:10
Percent Solids: 90.9

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.032	0.0050	mg/Kg	☼	07/13/17 06:04	07/13/17 14:39	1
Benzene	ND		0.0079	0.0031	mg/Kg	☼	07/13/17 06:04	07/13/17 14:39	1
2-Butanone (MEK)	ND		0.0079	0.0046	mg/Kg	☼	07/13/17 06:04	07/13/17 14:39	1
Carbon tetrachloride	ND		0.0079	0.0052	mg/Kg	☼	07/13/17 06:04	07/13/17 14:39	1
Chlorobenzene	ND		0.0079	0.0025	mg/Kg	☼	07/13/17 06:04	07/13/17 14:39	1
Chloroform	ND		0.0079	0.0033	mg/Kg	☼	07/13/17 06:04	07/13/17 14:39	1
cis-1,2-Dichloroethene	ND		0.0079	0.0025	mg/Kg	☼	07/13/17 06:04	07/13/17 14:39	1
1,2-Dichlorobenzene	ND		0.0079	0.0064	mg/Kg	☼	07/13/17 06:04	07/13/17 14:39	1
1,3-Dichlorobenzene	ND		0.0079	0.0025	mg/Kg	☼	07/13/17 06:04	07/13/17 14:39	1
1,4-Dichlorobenzene	ND		0.0079	0.0016	mg/Kg	☼	07/13/17 06:04	07/13/17 14:39	1
1,1-Dichloroethane	ND		0.0079	0.0029	mg/Kg	☼	07/13/17 06:04	07/13/17 14:39	1
1,2-Dichloroethane	ND		0.0079	0.0023	mg/Kg	☼	07/13/17 06:04	07/13/17 14:39	1
1,1-Dichloroethene	ND		0.0079	0.0045	mg/Kg	☼	07/13/17 06:04	07/13/17 14:39	1
Ethylbenzene	ND		0.0079	0.0034	mg/Kg	☼	07/13/17 06:04	07/13/17 14:39	1
Methylene Chloride	ND		0.0079	0.0037	mg/Kg	☼	07/13/17 06:04	07/13/17 14:39	1
Methyl tert-butyl ether	ND		0.0079	0.0058	mg/Kg	☼	07/13/17 06:04	07/13/17 14:39	1
n-Butylbenzene	ND		0.0079	0.0060	mg/Kg	☼	07/13/17 06:04	07/13/17 14:39	1
N-Propylbenzene	ND		0.0079	0.0033	mg/Kg	☼	07/13/17 06:04	07/13/17 14:39	1
sec-Butylbenzene	ND		0.0079	0.0039	mg/Kg	☼	07/13/17 06:04	07/13/17 14:39	1
tert-Butylbenzene	ND		0.0079	0.0029	mg/Kg	☼	07/13/17 06:04	07/13/17 14:39	1
Tetrachloroethene	ND		0.0079	0.0032	mg/Kg	☼	07/13/17 06:04	07/13/17 14:39	1
Toluene	ND		0.0079	0.0027	mg/Kg	☼	07/13/17 06:04	07/13/17 14:39	1
trans-1,2-Dichloroethene	ND		0.0079	0.0040	mg/Kg	☼	07/13/17 06:04	07/13/17 14:39	1
1,1,1-Trichloroethane	ND		0.0079	0.0040	mg/Kg	☼	07/13/17 06:04	07/13/17 14:39	1
Trichloroethene	ND		0.0079	0.0024	mg/Kg	☼	07/13/17 06:04	07/13/17 14:39	1
1,2,4-Trimethylbenzene	ND		0.0079	0.0021	mg/Kg	☼	07/13/17 06:04	07/13/17 14:39	1
1,3,5-Trimethylbenzene	ND		0.0079	0.0027	mg/Kg	☼	07/13/17 06:04	07/13/17 14:39	1
Vinyl chloride	ND		0.0079	0.0058	mg/Kg	☼	07/13/17 06:04	07/13/17 14:39	1
Xylenes, Total	ND		0.016	0.0068	mg/Kg	☼	07/13/17 06:04	07/13/17 14:39	1

Client Sample ID: W2, S3, A 71117

Lab Sample ID: 180-68096-10
Date Collected: 07/11/17 11:45
Matrix: Solid
Date Received: 07/12/17 09:10
Percent Solids: 90.9

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*63 - 120*	*07/13/17 06:04*	*07/13/17 14:39*	*1*
Dibromofluoromethane (Surr)	*87*		*68 - 121*	*07/13/17 06:04*	*07/13/17 14:39*	*1*
1,2-Dichloroethane-d4 (Surr)	*82*		*52 - 124*	*07/13/17 06:04*	*07/13/17 14:39*	*1*
Toluene-d8 (Surr)	*106*		*72 - 127*	*07/13/17 06:04*	*07/13/17 14:39*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.1**		0.1	0.1	%			07/12/17 15:57	1
Percent Solids	**90.9**		0.1	0.1	%			07/12/17 15:57	1

Client Sample ID: W2, S3, B 71117

Lab Sample ID: 180-68096-11
Date Collected: 07/11/17 11:50
Matrix: Solid
Date Received: 07/12/17 09:10
Percent Solids: 93.8

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.020	0.0032	mg/Kg	☼	07/13/17 06:04	07/13/17 15:02	1
Benzene	ND		0.0050	0.0020	mg/Kg	☼	07/13/17 06:04	07/13/17 15:02	1
2-Butanone (MEK)	ND		0.0050	0.0029	mg/Kg	☼	07/13/17 06:04	07/13/17 15:02	1
Carbon tetrachloride	ND		0.0050	0.0033	mg/Kg	☼	07/13/17 06:04	07/13/17 15:02	1
Chlorobenzene	ND		0.0050	0.0016	mg/Kg	☼	07/13/17 06:04	07/13/17 15:02	1
Chloroform	ND		0.0050	0.0021	mg/Kg	☼	07/13/17 06:04	07/13/17 15:02	1
cis-1,2-Dichloroethene	ND		0.0050	0.0016	mg/Kg	☼	07/13/17 06:04	07/13/17 15:02	1
1,2-Dichlorobenzene	ND		0.0050	0.0041	mg/Kg	☼	07/13/17 06:04	07/13/17 15:02	1
1,3-Dichlorobenzene	ND		0.0050	0.0016	mg/Kg	☼	07/13/17 06:04	07/13/17 15:02	1
1,4-Dichlorobenzene	ND		0.0050	0.0010	mg/Kg	☼	07/13/17 06:04	07/13/17 15:02	1
1,1-Dichloroethane	ND		0.0050	0.0018	mg/Kg	☼	07/13/17 06:04	07/13/17 15:02	1
1,2-Dichloroethane	ND		0.0050	0.0015	mg/Kg	☼	07/13/17 06:04	07/13/17 15:02	1
1,1-Dichloroethene	ND		0.0050	0.0029	mg/Kg	☼	07/13/17 06:04	07/13/17 15:02	1
Ethylbenzene	ND		0.0050	0.0022	mg/Kg	☼	07/13/17 06:04	07/13/17 15:02	1
Methylene Chloride	ND		0.0050	0.0024	mg/Kg	☼	07/13/17 06:04	07/13/17 15:02	1
Methyl tert-butyl ether	ND		0.0050	0.0037	mg/Kg	☼	07/13/17 06:04	07/13/17 15:02	1
n-Butylbenzene	ND		0.0050	0.0038	mg/Kg	☼	07/13/17 06:04	07/13/17 15:02	1
N-Propylbenzene	ND		0.0050	0.0021	mg/Kg	☼	07/13/17 06:04	07/13/17 15:02	1
sec-Butylbenzene	ND		0.0050	0.0025	mg/Kg	☼	07/13/17 06:04	07/13/17 15:02	1
tert-Butylbenzene	ND		0.0050	0.0018	mg/Kg	☼	07/13/17 06:04	07/13/17 15:02	1
Tetrachloroethene	ND		0.0050	0.0020	mg/Kg	☼	07/13/17 06:04	07/13/17 15:02	1
Toluene	ND		0.0050	0.0017	mg/Kg	☼	07/13/17 06:04	07/13/17 15:02	1
trans-1,2-Dichloroethene	ND		0.0050	0.0026	mg/Kg	☼	07/13/17 06:04	07/13/17 15:02	1
1,1,1-Trichloroethane	ND		0.0050	0.0025	mg/Kg	☼	07/13/17 06:04	07/13/17 15:02	1
Trichloroethene	ND		0.0050	0.0015	mg/Kg	☼	07/13/17 06:04	07/13/17 15:02	1
1,2,4-Trimethylbenzene	ND		0.0050	0.0014	mg/Kg	☼	07/13/17 06:04	07/13/17 15:02	1
1,3,5-Trimethylbenzene	ND		0.0050	0.0017	mg/Kg	☼	07/13/17 06:04	07/13/17 15:02	1
Vinyl chloride	ND		0.0050	0.0037	mg/Kg	☼	07/13/17 06:04	07/13/17 15:02	1
Xylenes, Total	ND		0.010	0.0043	mg/Kg	☼	07/13/17 06:04	07/13/17 15:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*82*		*63 - 120*	*07/13/17 06:04*	*07/13/17 15:02*	*1*
Dibromofluoromethane (Surr)	*84*		*68 - 121*	*07/13/17 06:04*	*07/13/17 15:02*	*1*
1,2-Dichloroethane-d4 (Surr)	*76*		*52 - 124*	*07/13/17 06:04*	*07/13/17 15:02*	*1*
Toluene-d8 (Surr)	*108*		*72 - 127*	*07/13/17 06:04*	*07/13/17 15:02*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	6.2		0.1	0.1	%			07/12/17 15:57	1
Percent Solids	93.8		0.1	0.1	%			07/12/17 15:57	1

Client Sample ID: W2, S3, C 71117

Lab Sample ID: 180-68096-12
Date Collected: 07/11/17 11:55
Matrix: Solid
Date Received: 07/12/17 09:10
Percent Solids: 91.0

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.072	0.024	mg/Kg	☼	07/13/17 03:37	07/13/17 20:52	10
Acenaphthylene	0.23		0.072	0.024	mg/Kg	☼	07/13/17 03:37	07/13/17 20:52	10
Anthracene	0.27		0.072	0.026	mg/Kg	☼	07/13/17 03:37	07/13/17 20:52	10
Benzo[a]anthracene	0.71		0.072	0.028	mg/Kg	☼	07/13/17 03:37	07/13/17 20:52	10
Benzo[a]pyrene	0.72		0.072	0.030	mg/Kg	☼	07/13/17 03:37	07/13/17 20:52	10
Benzo[b]fluoranthene	0.99		0.072	0.031	mg/Kg	☼	07/13/17 03:37	07/13/17 20:52	10
Benzo[g,h,i]perylene	0.86		0.072	0.031	mg/Kg	☼	07/13/17 03:37	07/13/17 20:52	10
Benzo[k]fluoranthene	0.22		0.072	0.025	mg/Kg	☼	07/13/17 03:37	07/13/17 20:52	10
Chrysene	0.73		0.072	0.028	mg/Kg	☼	07/13/17 03:37	07/13/17 20:52	10
Dibenz(a,h)anthracene	0.18		0.072	0.030	mg/Kg	☼	07/13/17 03:37	07/13/17 20:52	10
Dibenzofuran	0.065	J	0.35	0.029	mg/Kg	☼	07/13/17 03:37	07/13/17 20:52	10
1,4-Dioxane	ND		0.71	0.054	mg/Kg	☼	07/13/17 03:37	07/13/17 20:52	10
Fluoranthene	1.2		0.072	0.028	mg/Kg	☼	07/13/17 03:37	07/13/17 20:52	10
Fluorene	0.037	J	0.072	0.025	mg/Kg	☼	07/13/17 03:37	07/13/17 20:52	10
Hexachlorobenzene	ND		0.072	0.029	mg/Kg	☼	07/13/17 03:37	07/13/17 20:52	10
Indeno[1,2,3-cd]pyrene	0.72		0.072	0.028	mg/Kg	☼	07/13/17 03:37	07/13/17 20:52	10
2-Methylphenol	ND		0.35	0.032	mg/Kg	☼	07/13/17 03:37	07/13/17 20:52	10
Methylphenol, 3 & 4	ND		0.35	0.032	mg/Kg	☼	07/13/17 03:37	07/13/17 20:52	10
Naphthalene	0.22		0.072	0.026	mg/Kg	☼	07/13/17 03:37	07/13/17 20:52	10
Pentachlorophenol	ND		1.8	0.68	mg/Kg	☼	07/13/17 03:37	07/13/17 20:52	10
Phenanthrene	0.56		0.072	0.030	mg/Kg	☼	07/13/17 03:37	07/13/17 20:52	10
Phenol	ND		0.35	0.048	mg/Kg	☼	07/13/17 03:37	07/13/17 20:52	10
Pyrene	1.1		0.072	0.032	mg/Kg	☼	07/13/17 03:37	07/13/17 20:52	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*61*		*42 - 100*	*07/13/17 03:37*	*07/13/17 20:52*	*10*
2-Fluorophenol (Surr)	*52*		*21 - 107*	*07/13/17 03:37*	*07/13/17 20:52*	*10*
Nitrobenzene-d5 (Surr)	*63*		*35 - 109*	*07/13/17 03:37*	*07/13/17 20:52*	*10*
Phenol-d5 (Surr)	*53*		*29 - 105*	*07/13/17 03:37*	*07/13/17 20:52*	*10*
Terphenyl-d14 (Surr)	*64*		*36 - 113*	*07/13/17 03:37*	*07/13/17 20:52*	*10*
2,4,6-Tribromophenol (Surr)	*49*		*20 - 134*	*07/13/17 03:37*	*07/13/17 20:52*	*10*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.018	0.0097	mg/Kg	☼	07/13/17 03:34	07/14/17 16:08	1
PCB-1221	ND		0.018	0.0095	mg/Kg	☼	07/13/17 03:34	07/14/17 16:08	1
PCB-1232	ND		0.018	0.0073	mg/Kg	☼	07/13/17 03:34	07/14/17 16:08	1
PCB-1242	ND		0.018	0.015	mg/Kg	☼	07/13/17 03:34	07/14/17 16:08	1
PCB-1248	0.69		0.018	0.0087	mg/Kg	☼	07/13/17 03:34	07/14/17 16:08	1
PCB-1254	0.56		0.018	0.0080	mg/Kg	☼	07/13/17 03:34	07/14/17 16:08	1
PCB-1260	0.16		0.018	0.012	mg/Kg	☼	07/13/17 03:34	07/14/17 16:08	1
PCB-1262	ND		0.018	0.013	mg/Kg	☼	07/13/17 03:34	07/14/17 16:08	1
PCB-1268	ND		0.018	0.0056	mg/Kg	☼	07/13/17 03:34	07/14/17 16:08	1

Client Sample ID: W2, S3, C 71117

Lab Sample ID: 180-68096-12
Date Collected: 07/11/17 11:55
Matrix: Solid
Date Received: 07/12/17 09:10
Percent Solids: 91.0

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*70*		*23 - 150*	*07/13/17 03:34*	*07/14/17 16:08*	*1*
DCB Decachlorobiphenyl (Surr)	*79*		*23 - 150*	*07/13/17 03:34*	*07/14/17 16:08*	*1*
Tetrachloro-m-xylene (Surr)	*77*		*27 - 138*	*07/13/17 03:34*	*07/14/17 16:08*	*1*
Tetrachloro-m-xylene (Surr)	*71*		*27 - 138*	*07/13/17 03:34*	*07/14/17 16:08*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**6.4**		1.1	0.48	mg/Kg	☼	07/13/17 09:05	07/14/17 13:37	1
Barium	**80**		22	5.8	mg/Kg	☼	07/13/17 09:05	07/14/17 13:37	1
Beryllium	**0.33**	**J**	0.44	0.11	mg/Kg	☼	07/13/17 09:05	07/14/17 13:37	1
Cadmium	**0.14**	**J**	0.54	0.12	mg/Kg	☼	07/13/17 09:05	07/14/17 13:37	1
Chromium	**8.5**		0.54	0.14	mg/Kg	☼	07/13/17 09:05	07/14/17 13:37	1
Copper	**86**		2.7	0.84	mg/Kg	☼	07/13/17 09:05	07/14/17 13:37	1
Lead	**50**		1.1	0.36	mg/Kg	☼	07/13/17 09:05	07/14/17 13:37	1
Manganese	**340**		1.6	0.44	mg/Kg	☼	07/13/17 09:05	07/14/17 13:37	1
Nickel	**19**		4.4	0.98	mg/Kg	☼	07/13/17 09:05	07/14/17 13:37	1
Selenium	ND		1.1	0.43	mg/Kg	☼	07/13/17 09:05	07/14/17 13:37	1
Silver	ND		0.54	0.18	mg/Kg	☼	07/13/17 09:05	07/14/17 13:37	1
Zinc	**81**		2.2	1.1	mg/Kg	☼	07/13/17 09:05	07/14/17 13:37	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.46**		0.033	0.0074	mg/Kg	☼	07/14/17 11:17	07/17/17 09:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.0**		0.1	0.1	%			07/12/17 15:57	1
Percent Solids	**91.0**		0.1	0.1	%			07/12/17 15:57	1
Cyanide, Total	ND		0.53	0.16	mg/Kg	☼	07/13/17 12:02	07/13/17 16:08	1

Client Sample ID: W2, S4, A 71117

Lab Sample ID: 180-68096-13
Date Collected: 07/11/17 12:15
Matrix: Solid
Date Received: 07/12/17 09:10
Percent Solids: 90.1

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.016	0.0025	mg/Kg	☼	07/13/17 06:04	07/13/17 15:24	1
Benzene	ND		0.0040	0.0016	mg/Kg	☼	07/13/17 06:04	07/13/17 15:24	1
2-Butanone (MEK)	ND		0.0040	0.0023	mg/Kg	☼	07/13/17 06:04	07/13/17 15:24	1
Carbon tetrachloride	ND		0.0040	0.0027	mg/Kg	☼	07/13/17 06:04	07/13/17 15:24	1
Chlorobenzene	ND		0.0040	0.0013	mg/Kg	☼	07/13/17 06:04	07/13/17 15:24	1
Chloroform	ND		0.0040	0.0017	mg/Kg	☼	07/13/17 06:04	07/13/17 15:24	1
cis-1,2-Dichloroethene	ND		0.0040	0.0013	mg/Kg	☼	07/13/17 06:04	07/13/17 15:24	1
1,2-Dichlorobenzene	ND		0.0040	0.0033	mg/Kg	☼	07/13/17 06:04	07/13/17 15:24	1
1,3-Dichlorobenzene	ND		0.0040	0.0013	mg/Kg	☼	07/13/17 06:04	07/13/17 15:24	1
1,4-Dichlorobenzene	ND		0.0040	0.00082	mg/Kg	☼	07/13/17 06:04	07/13/17 15:24	1
1,1-Dichloroethane	ND		0.0040	0.0015	mg/Kg	☼	07/13/17 06:04	07/13/17 15:24	1
1,2-Dichloroethane	ND		0.0040	0.0012	mg/Kg	☼	07/13/17 06:04	07/13/17 15:24	1
1,1-Dichloroethene	ND		0.0040	0.0023	mg/Kg	☼	07/13/17 06:04	07/13/17 15:24	1
Ethylbenzene	ND		0.0040	0.0017	mg/Kg	☼	07/13/17 06:04	07/13/17 15:24	1
Methylene Chloride	ND		0.0040	0.0019	mg/Kg	☼	07/13/17 06:04	07/13/17 15:24	1

Client Sample ID: W2, S4, A 71117 — Lab Sample ID: 180-68096-13

Date Collected: 07/11/17 12:15 — **Matrix: Solid**
Date Received: 07/12/17 09:10 — **Percent Solids: 90.1**

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.0040	0.0030	mg/Kg	☼	07/13/17 06:04	07/13/17 15:24	1
n-Butylbenzene	ND		0.0040	0.0031	mg/Kg	☼	07/13/17 06:04	07/13/17 15:24	1
N-Propylbenzene	ND		0.0040	0.0017	mg/Kg	☼	07/13/17 06:04	07/13/17 15:24	1
sec-Butylbenzene	ND		0.0040	0.0020	mg/Kg	☼	07/13/17 06:04	07/13/17 15:24	1
tert-Butylbenzene	ND		0.0040	0.0015	mg/Kg	☼	07/13/17 06:04	07/13/17 15:24	1
Tetrachloroethene	ND		0.0040	0.0016	mg/Kg	☼	07/13/17 06:04	07/13/17 15:24	1
Toluene	ND		0.0040	0.0014	mg/Kg	☼	07/13/17 06:04	07/13/17 15:24	1
trans-1,2-Dichloroethene	ND		0.0040	0.0020	mg/Kg	☼	07/13/17 06:04	07/13/17 15:24	1
1,1,1-Trichloroethane	ND		0.0040	0.0020	mg/Kg	☼	07/13/17 06:04	07/13/17 15:24	1
Trichloroethene	ND		0.0040	0.0012	mg/Kg	☼	07/13/17 06:04	07/13/17 15:24	1
1,2,4-Trimethylbenzene	ND		0.0040	0.0011	mg/Kg	☼	07/13/17 06:04	07/13/17 15:24	1
1,3,5-Trimethylbenzene	ND		0.0040	0.0014	mg/Kg	☼	07/13/17 06:04	07/13/17 15:24	1
Vinyl chloride	ND		0.0040	0.0030	mg/Kg	☼	07/13/17 06:04	07/13/17 15:24	1
Xylenes, Total	ND		0.0081	0.0035	mg/Kg	☼	07/13/17 06:04	07/13/17 15:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*63 - 120*	*07/13/17 06:04*	*07/13/17 15:24*	*1*
Dibromofluoromethane (Surr)	*91*		*68 - 121*	*07/13/17 06:04*	*07/13/17 15:24*	*1*
1,2-Dichloroethane-d4 (Surr)	*87*		*52 - 124*	*07/13/17 06:04*	*07/13/17 15:24*	*1*
Toluene-d8 (Surr)	*115*		*72 - 127*	*07/13/17 06:04*	*07/13/17 15:24*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.9**		0.1	0.1	%			07/12/17 15:57	1
Percent Solids	**90.1**		0.1	0.1	%			07/12/17 15:57	1

Client Sample ID: W2, S4, B 71117 — Lab Sample ID: 180-68096-14

Date Collected: 07/11/17 12:20 — **Matrix: Solid**
Date Received: 07/12/17 09:10 — **Percent Solids: 90.7**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.024	0.0038	mg/Kg	☼	07/13/17 06:04	07/13/17 15:47	1
Benzene	ND		0.0060	0.0024	mg/Kg	☼	07/13/17 06:04	07/13/17 15:47	1
2-Butanone (MEK)	ND		0.0060	0.0035	mg/Kg	☼	07/13/17 06:04	07/13/17 15:47	1
Carbon tetrachloride	ND		0.0060	0.0040	mg/Kg	☼	07/13/17 06:04	07/13/17 15:47	1
Chlorobenzene	ND		0.0060	0.0019	mg/Kg	☼	07/13/17 06:04	07/13/17 15:47	1
Chloroform	ND		0.0060	0.0025	mg/Kg	☼	07/13/17 06:04	07/13/17 15:47	1
cis-1,2-Dichloroethene	ND		0.0060	0.0019	mg/Kg	☼	07/13/17 06:04	07/13/17 15:47	1
1,2-Dichlorobenzene	ND		0.0060	0.0048	mg/Kg	☼	07/13/17 06:04	07/13/17 15:47	1
1,3-Dichlorobenzene	ND		0.0060	0.0019	mg/Kg	☼	07/13/17 06:04	07/13/17 15:47	1
1,4-Dichlorobenzene	ND		0.0060	0.0012	mg/Kg	☼	07/13/17 06:04	07/13/17 15:47	1
1,1-Dichloroethane	ND		0.0060	0.0022	mg/Kg	☼	07/13/17 06:04	07/13/17 15:47	1
1,2-Dichloroethane	ND		0.0060	0.0017	mg/Kg	☼	07/13/17 06:04	07/13/17 15:47	1
1,1-Dichloroethene	ND		0.0060	0.0034	mg/Kg	☼	07/13/17 06:04	07/13/17 15:47	1
Ethylbenzene	ND		0.0060	0.0026	mg/Kg	☼	07/13/17 06:04	07/13/17 15:47	1
Methylene Chloride	ND		0.0060	0.0028	mg/Kg	☼	07/13/17 06:04	07/13/17 15:47	1
Methyl tert-butyl ether	ND		0.0060	0.0044	mg/Kg	☼	07/13/17 06:04	07/13/17 15:47	1
n-Butylbenzene	ND		0.0060	0.0045	mg/Kg	☼	07/13/17 06:04	07/13/17 15:47	1
N-Propylbenzene	ND		0.0060	0.0025	mg/Kg	☼	07/13/17 06:04	07/13/17 15:47	1

Client Sample ID: W2, S4, B 71117 — Lab Sample ID: 180-68096-14

Date Collected: 07/11/17 12:20 — **Matrix: Solid**
Date Received: 07/12/17 09:10 — **Percent Solids: 90.7**

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		0.0060	0.0029	mg/Kg	☼	07/13/17 06:04	07/13/17 15:47	1
tert-Butylbenzene	ND		0.0060	0.0022	mg/Kg	☼	07/13/17 06:04	07/13/17 15:47	1
Tetrachloroethene	ND		0.0060	0.0024	mg/Kg	☼	07/13/17 06:04	07/13/17 15:47	1
Toluene	ND		0.0060	0.0020	mg/Kg	☼	07/13/17 06:04	07/13/17 15:47	1
trans-1,2-Dichloroethene	ND		0.0060	0.0030	mg/Kg	☼	07/13/17 06:04	07/13/17 15:47	1
1,1,1-Trichloroethane	ND		0.0060	0.0030	mg/Kg	☼	07/13/17 06:04	07/13/17 15:47	1
Trichloroethene	ND		0.0060	0.0018	mg/Kg	☼	07/13/17 06:04	07/13/17 15:47	1
1,2,4-Trimethylbenzene	ND		0.0060	0.0016	mg/Kg	☼	07/13/17 06:04	07/13/17 15:47	1
1,3,5-Trimethylbenzene	ND		0.0060	0.0021	mg/Kg	☼	07/13/17 06:04	07/13/17 15:47	1
Vinyl chloride	ND		0.0060	0.0044	mg/Kg	☼	07/13/17 06:04	07/13/17 15:47	1
Xylenes, Total	ND		0.012	0.0052	mg/Kg	☼	07/13/17 06:04	07/13/17 15:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*63 - 120*	*07/13/17 06:04*	*07/13/17 15:47*	*1*
Dibromofluoromethane (Surr)	*88*		*68 - 121*	*07/13/17 06:04*	*07/13/17 15:47*	*1*
1,2-Dichloroethane-d4 (Surr)	*81*		*52 - 124*	*07/13/17 06:04*	*07/13/17 15:47*	*1*
Toluene-d8 (Surr)	*114*		*72 - 127*	*07/13/17 06:04*	*07/13/17 15:47*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.3**		0.1	0.1	%			07/12/17 15:57	1
Percent Solids	**90.7**		0.1	0.1	%			07/12/17 15:57	1

Client Sample ID: W2, S4, C 71117 — Lab Sample ID: 180-68096-15

Date Collected: 07/11/17 12:25 — **Matrix: Solid**
Date Received: 07/12/17 09:10 — **Percent Solids: 91.5**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.014**	**J**	0.037	0.012	mg/Kg	☼	07/13/17 03:37	07/13/17 21:20	5
Acenaphthylene	**0.18**		0.037	0.012	mg/Kg	☼	07/13/17 03:37	07/13/17 21:20	5
Anthracene	**0.21**		0.037	0.013	mg/Kg	☼	07/13/17 03:37	07/13/17 21:20	5
Benzo[a]anthracene	**0.68**		0.037	0.014	mg/Kg	☼	07/13/17 03:37	07/13/17 21:20	5
Benzo[a]pyrene	**0.69**		0.037	0.015	mg/Kg	☼	07/13/17 03:37	07/13/17 21:20	5
Benzo[b]fluoranthene	**0.80**		0.037	0.016	mg/Kg	☼	07/13/17 03:37	07/13/17 21:20	5
Benzo[g,h,i]perylene	**0.84**		0.037	0.016	mg/Kg	☼	07/13/17 03:37	07/13/17 21:20	5
Benzo[k]fluoranthene	**0.34**		0.037	0.013	mg/Kg	☼	07/13/17 03:37	07/13/17 21:20	5
Chrysene	**0.67**		0.037	0.014	mg/Kg	☼	07/13/17 03:37	07/13/17 21:20	5
Dibenz(a,h)anthracene	**0.19**		0.037	0.015	mg/Kg	☼	07/13/17 03:37	07/13/17 21:20	5
Dibenzofuran	**0.057**	**J**	0.18	0.015	mg/Kg	☼	07/13/17 03:37	07/13/17 21:20	5
1,4-Dioxane	ND		0.36	0.027	mg/Kg	☼	07/13/17 03:37	07/13/17 21:20	5
Fluoranthene	**1.1**		0.037	0.014	mg/Kg	☼	07/13/17 03:37	07/13/17 21:20	5
Fluorene	**0.039**		0.037	0.013	mg/Kg	☼	07/13/17 03:37	07/13/17 21:20	5
Hexachlorobenzene	ND		0.037	0.015	mg/Kg	☼	07/13/17 03:37	07/13/17 21:20	5
Indeno[1,2,3-cd]pyrene	**0.71**		0.037	0.014	mg/Kg	☼	07/13/17 03:37	07/13/17 21:20	5
2-Methylphenol	ND		0.18	0.016	mg/Kg	☼	07/13/17 03:37	07/13/17 21:20	5
Methylphenol, 3 & 4	ND		0.18	0.016	mg/Kg	☼	07/13/17 03:37	07/13/17 21:20	5
Naphthalene	**0.21**		0.037	0.013	mg/Kg	☼	07/13/17 03:37	07/13/17 21:20	5
Pentachlorophenol	ND		0.93	0.34	mg/Kg	☼	07/13/17 03:37	07/13/17 21:20	5
Phenanthrene	**0.50**		0.037	0.015	mg/Kg	☼	07/13/17 03:37	07/13/17 21:20	5

Client Sample ID: W2, S4, C 71117 **Lab Sample ID: 180-68096-15**
Date Collected: 07/11/17 12:25 **Matrix: Solid**
Date Received: 07/12/17 09:10 **Percent Solids: 91.5**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		0.18	0.025	mg/Kg	☼	07/13/17 03:37	07/13/17 21:20	5
Pyrene	**0.97**		0.037	0.016	mg/Kg	☼	07/13/17 03:37	07/13/17 21:20	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*51*		*42 - 100*	*07/13/17 03:37*	*07/13/17 21:20*	*5*
2-Fluorophenol (Surr)	*50*		*21 - 107*	*07/13/17 03:37*	*07/13/17 21:20*	*5*
Nitrobenzene-d5 (Surr)	*57*		*35 - 109*	*07/13/17 03:37*	*07/13/17 21:20*	*5*
Phenol-d5 (Surr)	*45*		*29 - 105*	*07/13/17 03:37*	*07/13/17 21:20*	*5*
Terphenyl-d14 (Surr)	*50*		*36 - 113*	*07/13/17 03:37*	*07/13/17 21:20*	*5*
2,4,6-Tribromophenol (Surr)	*56*		*20 - 134*	*07/13/17 03:37*	*07/13/17 21:20*	*5*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.018	0.0097	mg/Kg	☼	07/13/17 03:34	07/14/17 16:28	1
PCB-1221	ND		0.018	0.0094	mg/Kg	☼	07/13/17 03:34	07/14/17 16:28	1
PCB-1232	ND		0.018	0.0072	mg/Kg	☼	07/13/17 03:34	07/14/17 16:28	1
PCB-1242	ND		0.018	0.014	mg/Kg	☼	07/13/17 03:34	07/14/17 16:28	1
PCB-1248	**0.70**		0.018	0.0087	mg/Kg	☼	07/13/17 03:34	07/14/17 16:28	1
PCB-1254	**0.48**		0.018	0.0080	mg/Kg	☼	07/13/17 03:34	07/14/17 16:28	1
PCB-1260	**0.16**		0.018	0.012	mg/Kg	☼	07/13/17 03:34	07/14/17 16:28	1
PCB-1262	ND		0.018	0.013	mg/Kg	☼	07/13/17 03:34	07/14/17 16:28	1
PCB-1268	ND		0.018	0.0055	mg/Kg	☼	07/13/17 03:34	07/14/17 16:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*68*		*23 - 150*	*07/13/17 03:34*	*07/14/17 16:28*	*1*
DCB Decachlorobiphenyl (Surr)	*81*		*23 - 150*	*07/13/17 03:34*	*07/14/17 16:28*	*1*
Tetrachloro-m-xylene (Surr)	*72*		*27 - 138*	*07/13/17 03:34*	*07/14/17 16:28*	*1*
Tetrachloro-m-xylene (Surr)	*64*		*27 - 138*	*07/13/17 03:34*	*07/14/17 16:28*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**5.5**		1.0	0.46	mg/Kg	☼	07/13/17 09:05	07/14/17 13:42	1
Barium	**86**		21	5.6	mg/Kg	☼	07/13/17 09:05	07/14/17 13:42	1
Beryllium	**0.32**	**J**	0.42	0.11	mg/Kg	☼	07/13/17 09:05	07/14/17 13:42	1
Cadmium	**0.16**	**J**	0.52	0.12	mg/Kg	☼	07/13/17 09:05	07/14/17 13:42	1
Chromium	**7.9**		0.52	0.14	mg/Kg	☼	07/13/17 09:05	07/14/17 13:42	1
Copper	**32**		2.6	0.80	mg/Kg	☼	07/13/17 09:05	07/14/17 13:42	1
Lead	**36**		1.0	0.34	mg/Kg	☼	07/13/17 09:05	07/14/17 13:42	1
Manganese	**360**		1.6	0.42	mg/Kg	☼	07/13/17 09:05	07/14/17 13:42	1
Nickel	**14**		4.2	0.94	mg/Kg	☼	07/13/17 09:05	07/14/17 13:42	1
Selenium	**0.84**	**J**	1.0	0.41	mg/Kg	☼	07/13/17 09:05	07/14/17 13:42	1
Silver	ND		0.52	0.17	mg/Kg	☼	07/13/17 09:05	07/14/17 13:42	1
Zinc	**69**		2.1	1.1	mg/Kg	☼	07/13/17 09:05	07/14/17 13:42	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.65**		0.035	0.0079	mg/Kg	☼	07/14/17 11:17	07/17/17 09:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**8.5**		0.1	0.1	%			07/12/17 15:57	1

Client Sample ID: W2, S4, C 71117 — Lab Sample ID: 180-68096-15

Date Collected: 07/11/17 12:25 — **Matrix: Solid**
Date Received: 07/12/17 09:10 — **Percent Solids: 91.5**

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	91.5		0.1	0.1	%			07/12/17 15:57	1
Cyanide, Total	0.29	J	0.53	0.16	mg/Kg	☼	07/13/17 12:02	07/13/17 16:10	1

Client Sample ID: W2, S5 A 71117 — Lab Sample ID: 180-68096-16

Date Collected: 07/11/17 12:45 — **Matrix: Solid**
Date Received: 07/12/17 09:10 — **Percent Solids: 91.9**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.043	0.0067	mg/Kg	☼	07/13/17 06:04	07/13/17 16:10	1
Benzene	ND		0.011	0.0042	mg/Kg	☼	07/13/17 06:04	07/13/17 16:10	1
2-Butanone (MEK)	ND		0.011	0.0062	mg/Kg	☼	07/13/17 06:04	07/13/17 16:10	1
Carbon tetrachloride	ND		0.011	0.0071	mg/Kg	☼	07/13/17 06:04	07/13/17 16:10	1
Chlorobenzene	ND		0.011	0.0034	mg/Kg	☼	07/13/17 06:04	07/13/17 16:10	1
Chloroform	ND		0.011	0.0045	mg/Kg	☼	07/13/17 06:04	07/13/17 16:10	1
cis-1,2-Dichloroethene	ND		0.011	0.0034	mg/Kg	☼	07/13/17 06:04	07/13/17 16:10	1
1,2-Dichlorobenzene	ND		0.011	0.0086	mg/Kg	☼	07/13/17 06:04	07/13/17 16:10	1
1,3-Dichlorobenzene	ND		0.011	0.0034	mg/Kg	☼	07/13/17 06:04	07/13/17 16:10	1
1,4-Dichlorobenzene	ND		0.011	0.0022	mg/Kg	☼	07/13/17 06:04	07/13/17 16:10	1
1,1-Dichloroethane	ND		0.011	0.0039	mg/Kg	☼	07/13/17 06:04	07/13/17 16:10	1
1,2-Dichloroethane	ND		0.011	0.0031	mg/Kg	☼	07/13/17 06:04	07/13/17 16:10	1
1,1-Dichloroethene	ND		0.011	0.0061	mg/Kg	☼	07/13/17 06:04	07/13/17 16:10	1
Ethylbenzene	ND		0.011	0.0046	mg/Kg	☼	07/13/17 06:04	07/13/17 16:10	1
Methylene Chloride	ND		0.011	0.0050	mg/Kg	☼	07/13/17 06:04	07/13/17 16:10	1
Methyl tert-butyl ether	ND		0.011	0.0079	mg/Kg	☼	07/13/17 06:04	07/13/17 16:10	1
n-Butylbenzene	ND		0.011	0.0081	mg/Kg	☼	07/13/17 06:04	07/13/17 16:10	1
N-Propylbenzene	ND		0.011	0.0045	mg/Kg	☼	07/13/17 06:04	07/13/17 16:10	1
sec-Butylbenzene	ND		0.011	0.0052	mg/Kg	☼	07/13/17 06:04	07/13/17 16:10	1
tert-Butylbenzene	ND		0.011	0.0039	mg/Kg	☼	07/13/17 06:04	07/13/17 16:10	1
Tetrachloroethene	ND		0.011	0.0043	mg/Kg	☼	07/13/17 06:04	07/13/17 16:10	1
Toluene	ND		0.011	0.0036	mg/Kg	☼	07/13/17 06:04	07/13/17 16:10	1
trans-1,2-Dichloroethene	ND		0.011	0.0054	mg/Kg	☼	07/13/17 06:04	07/13/17 16:10	1
1,1,1-Trichloroethane	ND		0.011	0.0054	mg/Kg	☼	07/13/17 06:04	07/13/17 16:10	1
Trichloroethene	ND		0.011	0.0032	mg/Kg	☼	07/13/17 06:04	07/13/17 16:10	1
1,2,4-Trimethylbenzene	ND		0.011	0.0029	mg/Kg	☼	07/13/17 06:04	07/13/17 16:10	1
1,3,5-Trimethylbenzene	ND		0.011	0.0037	mg/Kg	☼	07/13/17 06:04	07/13/17 16:10	1
Vinyl chloride	ND		0.011	0.0078	mg/Kg	☼	07/13/17 06:04	07/13/17 16:10	1
Xylenes, Total	ND		0.021	0.0092	mg/Kg	☼	07/13/17 06:04	07/13/17 16:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*83*		*63 - 120*	*07/13/17 06:04*	*07/13/17 16:10*	*1*
Dibromofluoromethane (Surr)	*85*		*68 - 121*	*07/13/17 06:04*	*07/13/17 16:10*	*1*
1,2-Dichloroethane-d4 (Surr)	*81*		*52 - 124*	*07/13/17 06:04*	*07/13/17 16:10*	*1*
Toluene-d8 (Surr)	*104*		*72 - 127*	*07/13/17 06:04*	*07/13/17 16:10*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	8.1		0.1	0.1	%			07/12/17 15:57	1
Percent Solids	91.9		0.1	0.1	%			07/12/17 15:57	1

Client Sample ID: W2, S5 B 71117 — Lab Sample ID: 180-68096-17

Date Collected: 07/11/17 12:50 — **Matrix: Solid**
Date Received: 07/12/17 09:10 — **Percent Solids: 91.0**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.016	0.0025	mg/Kg	☼	07/13/17 06:04	07/13/17 16:33	1
Benzene	ND		0.0040	0.0016	mg/Kg	☼	07/13/17 06:04	07/13/17 16:33	1
2-Butanone (MEK)	ND		0.0040	0.0023	mg/Kg	☼	07/13/17 06:04	07/13/17 16:33	1
Carbon tetrachloride	ND		0.0040	0.0026	mg/Kg	☼	07/13/17 06:04	07/13/17 16:33	1
Chlorobenzene	ND		0.0040	0.0013	mg/Kg	☼	07/13/17 06:04	07/13/17 16:33	1
Chloroform	ND		0.0040	0.0017	mg/Kg	☼	07/13/17 06:04	07/13/17 16:33	1
cis-1,2-Dichloroethene	ND		0.0040	0.0013	mg/Kg	☼	07/13/17 06:04	07/13/17 16:33	1
1,2-Dichlorobenzene	ND		0.0040	0.0032	mg/Kg	☼	07/13/17 06:04	07/13/17 16:33	1
1,3-Dichlorobenzene	ND		0.0040	0.0013	mg/Kg	☼	07/13/17 06:04	07/13/17 16:33	1
1,4-Dichlorobenzene	ND		0.0040	0.00081	mg/Kg	☼	07/13/17 06:04	07/13/17 16:33	1
1,1-Dichloroethane	ND		0.0040	0.0014	mg/Kg	☼	07/13/17 06:04	07/13/17 16:33	1
1,2-Dichloroethane	ND		0.0040	0.0012	mg/Kg	☼	07/13/17 06:04	07/13/17 16:33	1
1,1-Dichloroethene	ND		0.0040	0.0023	mg/Kg	☼	07/13/17 06:04	07/13/17 16:33	1
Ethylbenzene	ND		0.0040	0.0017	mg/Kg	☼	07/13/17 06:04	07/13/17 16:33	1
Methylene Chloride	ND		0.0040	0.0019	mg/Kg	☼	07/13/17 06:04	07/13/17 16:33	1
Methyl tert-butyl ether	ND		0.0040	0.0029	mg/Kg	☼	07/13/17 06:04	07/13/17 16:33	1
n-Butylbenzene	ND		0.0040	0.0030	mg/Kg	☼	07/13/17 06:04	07/13/17 16:33	1
N-Propylbenzene	ND		0.0040	0.0017	mg/Kg	☼	07/13/17 06:04	07/13/17 16:33	1
sec-Butylbenzene	ND		0.0040	0.0019	mg/Kg	☼	07/13/17 06:04	07/13/17 16:33	1
tert-Butylbenzene	ND		0.0040	0.0015	mg/Kg	☼	07/13/17 06:04	07/13/17 16:33	1
Tetrachloroethene	ND		0.0040	0.0016	mg/Kg	☼	07/13/17 06:04	07/13/17 16:33	1
Toluene	ND		0.0040	0.0013	mg/Kg	☼	07/13/17 06:04	07/13/17 16:33	1
trans-1,2-Dichloroethene	ND		0.0040	0.0020	mg/Kg	☼	07/13/17 06:04	07/13/17 16:33	1
1,1,1-Trichloroethane	ND		0.0040	0.0020	mg/Kg	☼	07/13/17 06:04	07/13/17 16:33	1
Trichloroethene	ND		0.0040	0.0012	mg/Kg	☼	07/13/17 06:04	07/13/17 16:33	1
1,2,4-Trimethylbenzene	ND		0.0040	0.0011	mg/Kg	☼	07/13/17 06:04	07/13/17 16:33	1
1,3,5-Trimethylbenzene	ND		0.0040	0.0014	mg/Kg	☼	07/13/17 06:04	07/13/17 16:33	1
Vinyl chloride	ND		0.0040	0.0029	mg/Kg	☼	07/13/17 06:04	07/13/17 16:33	1
Xylenes, Total	ND		0.0080	0.0034	mg/Kg	☼	07/13/17 06:04	07/13/17 16:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*63 - 120*	*07/13/17 06:04*	*07/13/17 16:33*	*1*
Dibromofluoromethane (Surr)	*95*		*68 - 121*	*07/13/17 06:04*	*07/13/17 16:33*	*1*
1,2-Dichloroethane-d4 (Surr)	*89*		*52 - 124*	*07/13/17 06:04*	*07/13/17 16:33*	*1*
Toluene-d8 (Surr)	*123*		*72 - 127*	*07/13/17 06:04*	*07/13/17 16:33*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.0**		0.1	0.1	%			07/12/17 15:57	1
Percent Solids	**91.0**		0.1	0.1	%			07/12/17 15:57	1

Client Sample ID: W2, S5 C 71117 — Lab Sample ID: 180-68096-18

Date Collected: 07/11/17 12:55 — **Matrix: Solid**
Date Received: 07/12/17 09:10 — **Percent Solids: 91.3**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.063**		0.036	0.012	mg/Kg	☼	07/13/17 03:37	07/13/17 21:47	5
Acenaphthylene	**0.40**		0.036	0.012	mg/Kg	☼	07/13/17 03:37	07/13/17 21:47	5
Anthracene	**1.5**		0.036	0.013	mg/Kg	☼	07/13/17 03:37	07/13/17 21:47	5

Client Sample ID: W2, S5 C 71117 **Lab Sample ID: 180-68096-18**
Date Collected: 07/11/17 12:55 **Matrix: Solid**
Date Received: 07/12/17 09:10 **Percent Solids: 91.3**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	**2.3**		0.036	0.014	mg/Kg	☼	07/13/17 03:37	07/13/17 21:47	5
Benzo[a]pyrene	**1.9**		0.036	0.015	mg/Kg	☼	07/13/17 03:37	07/13/17 21:47	5
Benzo[b]fluoranthene	**2.2**		0.036	0.016	mg/Kg	☼	07/13/17 03:37	07/13/17 21:47	5
Benzo[g,h,i]perylene	**1.9**		0.036	0.016	mg/Kg	☼	07/13/17 03:37	07/13/17 21:47	5
Benzo[k]fluoranthene	**0.88**		0.036	0.013	mg/Kg	☼	07/13/17 03:37	07/13/17 21:47	5
Chrysene	**2.1**		0.036	0.014	mg/Kg	☼	07/13/17 03:37	07/13/17 21:47	5
Dibenz(a,h)anthracene	**0.41**		0.036	0.015	mg/Kg	☼	07/13/17 03:37	07/13/17 21:47	5
Dibenzofuran	**0.17**	**J**	0.18	0.015	mg/Kg	☼	07/13/17 03:37	07/13/17 21:47	5
1,4-Dioxane	ND		0.36	0.027	mg/Kg	☼	07/13/17 03:37	07/13/17 21:47	5
Fluoranthene	**5.7**		0.036	0.014	mg/Kg	☼	07/13/17 03:37	07/13/17 21:47	5
Fluorene	**0.23**		0.036	0.013	mg/Kg	☼	07/13/17 03:37	07/13/17 21:47	5
Hexachlorobenzene	ND		0.036	0.015	mg/Kg	☼	07/13/17 03:37	07/13/17 21:47	5
Indeno[1,2,3-cd]pyrene	**1.7**		0.036	0.014	mg/Kg	☼	07/13/17 03:37	07/13/17 21:47	5
2-Methylphenol	ND		0.18	0.016	mg/Kg	☼	07/13/17 03:37	07/13/17 21:47	5
Methylphenol, 3 & 4	**0.019**	**J**	0.18	0.016	mg/Kg	☼	07/13/17 03:37	07/13/17 21:47	5
Naphthalene	**0.38**		0.036	0.013	mg/Kg	☼	07/13/17 03:37	07/13/17 21:47	5
Pentachlorophenol	ND		0.92	0.34	mg/Kg	☼	07/13/17 03:37	07/13/17 21:47	5
Phenanthrene	**3.7**		0.036	0.015	mg/Kg	☼	07/13/17 03:37	07/13/17 21:47	5
Phenol	ND		0.18	0.025	mg/Kg	☼	07/13/17 03:37	07/13/17 21:47	5
Pyrene	**3.8**		0.036	0.016	mg/Kg	☼	07/13/17 03:37	07/13/17 21:47	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*62*		*42 - 100*	*07/13/17 03:37*	*07/13/17 21:47*	*5*
2-Fluorophenol (Surr)	*58*		*21 - 107*	*07/13/17 03:37*	*07/13/17 21:47*	*5*
Nitrobenzene-d5 (Surr)	*66*		*35 - 109*	*07/13/17 03:37*	*07/13/17 21:47*	*5*
Phenol-d5 (Surr)	*53*		*29 - 105*	*07/13/17 03:37*	*07/13/17 21:47*	*5*
Terphenyl-d14 (Surr)	*54*		*36 - 113*	*07/13/17 03:37*	*07/13/17 21:47*	*5*
2,4,6-Tribromophenol (Surr)	*63*		*20 - 134*	*07/13/17 03:37*	*07/13/17 21:47*	*5*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.018	0.0094	mg/Kg	☼	07/13/17 03:34	07/14/17 16:48	1
PCB-1221	ND		0.018	0.0092	mg/Kg	☼	07/13/17 03:34	07/14/17 16:48	1
PCB-1232	ND		0.018	0.0070	mg/Kg	☼	07/13/17 03:34	07/14/17 16:48	1
PCB-1242	ND		0.018	0.014	mg/Kg	☼	07/13/17 03:34	07/14/17 16:48	1
PCB-1248	**0.70**		0.018	0.0085	mg/Kg	☼	07/13/17 03:34	07/14/17 16:48	1
PCB-1254	**0.48**		0.018	0.0078	mg/Kg	☼	07/13/17 03:34	07/14/17 16:48	1
PCB-1260	**0.17**		0.018	0.012	mg/Kg	☼	07/13/17 03:34	07/14/17 16:48	1
PCB-1262	ND		0.018	0.013	mg/Kg	☼	07/13/17 03:34	07/14/17 16:48	1
PCB-1268	ND		0.018	0.0054	mg/Kg	☼	07/13/17 03:34	07/14/17 16:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*70*		*23 - 150*	*07/13/17 03:34*	*07/14/17 16:48*	*1*
DCB Decachlorobiphenyl (Surr)	*81*		*23 - 150*	*07/13/17 03:34*	*07/14/17 16:48*	*1*
Tetrachloro-m-xylene (Surr)	*78*		*27 - 138*	*07/13/17 03:34*	*07/14/17 16:48*	*1*
Tetrachloro-m-xylene (Surr)	*70*		*27 - 138*	*07/13/17 03:34*	*07/14/17 16:48*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**5.4**		1.0	0.46	mg/Kg	☼	07/13/17 09:05	07/14/17 13:48	1

Client Sample ID: W2, S5 C 71117

Lab Sample ID: 180-68096-18

Date Collected: 07/11/17 12:55
Matrix: Solid
Date Received: 07/12/17 09:10
Percent Solids: 91.3

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**69**		21	5.6	mg/Kg	☼	07/13/17 09:05	07/14/17 13:48	1
Beryllium	**0.27**	**J**	0.42	0.11	mg/Kg	☼	07/13/17 09:05	07/14/17 13:48	1
Cadmium	**0.17**	**J**	0.52	0.12	mg/Kg	☼	07/13/17 09:05	07/14/17 13:48	1
Chromium	**8.7**		0.52	0.14	mg/Kg	☼	07/13/17 09:05	07/14/17 13:48	1
Copper	**34**		2.6	0.80	mg/Kg	☼	07/13/17 09:05	07/14/17 13:48	1
Lead	**44**		1.0	0.34	mg/Kg	☼	07/13/17 09:05	07/14/17 13:48	1
Manganese	**270**		1.6	0.42	mg/Kg	☼	07/13/17 09:05	07/14/17 13:48	1
Nickel	**13**		4.2	0.94	mg/Kg	☼	07/13/17 09:05	07/14/17 13:48	1
Selenium	ND		1.0	0.41	mg/Kg	☼	07/13/17 09:05	07/14/17 13:48	1
Silver	ND		0.52	0.17	mg/Kg	☼	07/13/17 09:05	07/14/17 13:48	1
Zinc	**75**		2.1	1.1	mg/Kg	☼	07/13/17 09:05	07/14/17 13:48	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.69**		0.037	0.0082	mg/Kg	☼	07/14/17 11:17	07/17/17 09:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**8.7**		0.1	0.1	%			07/12/17 16:42	1
Percent Solids	**91.3**		0.1	0.1	%			07/12/17 16:42	1
Cyanide, Total	ND		0.53	0.16	mg/Kg	☼	07/13/17 12:02	07/13/17 16:12	1

Client Sample ID: W3, S1 A 71117

Lab Sample ID: 180-68096-19

Date Collected: 07/11/17 13:15
Matrix: Solid
Date Received: 07/12/17 09:10
Percent Solids: 91.3

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.023	0.0036	mg/Kg	☼	07/16/17 09:00	07/16/17 11:57	1
Benzene	ND		0.0057	0.0022	mg/Kg	☼	07/16/17 09:00	07/16/17 11:57	1
2-Butanone (MEK)	ND		0.0057	0.0033	mg/Kg	☼	07/16/17 09:00	07/16/17 11:57	1
Carbon tetrachloride	ND		0.0057	0.0038	mg/Kg	☼	07/16/17 09:00	07/16/17 11:57	1
Chlorobenzene	ND		0.0057	0.0018	mg/Kg	☼	07/16/17 09:00	07/16/17 11:57	1
Chloroform	ND		0.0057	0.0024	mg/Kg	☼	07/16/17 09:00	07/16/17 11:57	1
cis-1,2-Dichloroethene	ND		0.0057	0.0018	mg/Kg	☼	07/16/17 09:00	07/16/17 11:57	1
1,2-Dichlorobenzene	ND		0.0057	0.0046	mg/Kg	☼	07/16/17 09:00	07/16/17 11:57	1
1,3-Dichlorobenzene	ND		0.0057	0.0018	mg/Kg	☼	07/16/17 09:00	07/16/17 11:57	1
1,4-Dichlorobenzene	ND		0.0057	0.0012	mg/Kg	☼	07/16/17 09:00	07/16/17 11:57	1
1,1-Dichloroethane	ND		0.0057	0.0021	mg/Kg	☼	07/16/17 09:00	07/16/17 11:57	1
1,2-Dichloroethane	ND		0.0057	0.0016	mg/Kg	☼	07/16/17 09:00	07/16/17 11:57	1
1,1-Dichloroethene	ND		0.0057	0.0032	mg/Kg	☼	07/16/17 09:00	07/16/17 11:57	1
Ethylbenzene	ND		0.0057	0.0024	mg/Kg	☼	07/16/17 09:00	07/16/17 11:57	1
Methylene Chloride	ND		0.0057	0.0027	mg/Kg	☼	07/16/17 09:00	07/16/17 11:57	1
Methyl tert-butyl ether	ND		0.0057	0.0042	mg/Kg	☼	07/16/17 09:00	07/16/17 11:57	1
n-Butylbenzene	ND		0.0057	0.0043	mg/Kg	☼	07/16/17 09:00	07/16/17 11:57	1
N-Propylbenzene	ND		0.0057	0.0024	mg/Kg	☼	07/16/17 09:00	07/16/17 11:57	1
sec-Butylbenzene	ND		0.0057	0.0028	mg/Kg	☼	07/16/17 09:00	07/16/17 11:57	1
tert-Butylbenzene	ND		0.0057	0.0021	mg/Kg	☼	07/16/17 09:00	07/16/17 11:57	1
Tetrachloroethene	ND		0.0057	0.0023	mg/Kg	☼	07/16/17 09:00	07/16/17 11:57	1
Toluene	ND		0.0057	0.0019	mg/Kg	☼	07/16/17 09:00	07/16/17 11:57	1

Client Sample ID: W3, S1 A 71117 — Lab Sample ID: 180-68096-19

Date Collected: 07/11/17 13:15 — **Matrix: Solid**
Date Received: 07/12/17 09:10 — **Percent Solids: 91.3**

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		0.0057	0.0029	mg/Kg	☼	07/16/17 09:00	07/16/17 11:57	1
1,1,1-Trichloroethane	ND		0.0057	0.0028	mg/Kg	☼	07/16/17 09:00	07/16/17 11:57	1
Trichloroethene	ND		0.0057	0.0017	mg/Kg	☼	07/16/17 09:00	07/16/17 11:57	1
1,2,4-Trimethylbenzene	ND		0.0057	0.0015	mg/Kg	☼	07/16/17 09:00	07/16/17 11:57	1
1,3,5-Trimethylbenzene	ND		0.0057	0.0020	mg/Kg	☼	07/16/17 09:00	07/16/17 11:57	1
Vinyl chloride	ND		0.0057	0.0042	mg/Kg	☼	07/16/17 09:00	07/16/17 11:57	1
Xylenes, Total	ND		0.011	0.0049	mg/Kg	☼	07/16/17 09:00	07/16/17 11:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*63 - 120*	*07/16/17 09:00*	*07/16/17 11:57*	*1*
Dibromofluoromethane (Surr)	*92*		*68 - 121*	*07/16/17 09:00*	*07/16/17 11:57*	*1*
1,2-Dichloroethane-d4 (Surr)	*83*		*52 - 124*	*07/16/17 09:00*	*07/16/17 11:57*	*1*
Toluene-d8 (Surr)	*120*		*72 - 127*	*07/16/17 09:00*	*07/16/17 11:57*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**8.7**		0.1	0.1	%			07/12/17 16:42	1
Percent Solids	**91.3**		0.1	0.1	%			07/12/17 16:42	1

Client Sample ID: W3, S1 B 71117 — Lab Sample ID: 180-68096-20

Date Collected: 07/11/17 13:20 — **Matrix: Solid**
Date Received: 07/12/17 09:10 — **Percent Solids: 90.6**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.030	0.0047	mg/Kg	☼	07/16/17 09:00	07/16/17 19:32	1
Benzene	ND		0.0074	0.0029	mg/Kg	☼	07/16/17 09:00	07/16/17 19:32	1
2-Butanone (MEK)	ND		0.0074	0.0043	mg/Kg	☼	07/16/17 09:00	07/16/17 19:32	1
Carbon tetrachloride	ND		0.0074	0.0049	mg/Kg	☼	07/16/17 09:00	07/16/17 19:32	1
Chlorobenzene	ND		0.0074	0.0023	mg/Kg	☼	07/16/17 09:00	07/16/17 19:32	1
Chloroform	ND		0.0074	0.0031	mg/Kg	☼	07/16/17 09:00	07/16/17 19:32	1
cis-1,2-Dichloroethene	ND		0.0074	0.0023	mg/Kg	☼	07/16/17 09:00	07/16/17 19:32	1
1,2-Dichlorobenzene	ND		0.0074	0.0060	mg/Kg	☼	07/16/17 09:00	07/16/17 19:32	1
1,3-Dichlorobenzene	ND		0.0074	0.0024	mg/Kg	☼	07/16/17 09:00	07/16/17 19:32	1
1,4-Dichlorobenzene	ND		0.0074	0.0015	mg/Kg	☼	07/16/17 09:00	07/16/17 19:32	1
1,1-Dichloroethane	ND		0.0074	0.0027	mg/Kg	☼	07/16/17 09:00	07/16/17 19:32	1
1,2-Dichloroethane	ND		0.0074	0.0022	mg/Kg	☼	07/16/17 09:00	07/16/17 19:32	1
1,1-Dichloroethene	ND		0.0074	0.0042	mg/Kg	☼	07/16/17 09:00	07/16/17 19:32	1
Ethylbenzene	ND		0.0074	0.0032	mg/Kg	☼	07/16/17 09:00	07/16/17 19:32	1
Methylene Chloride	ND		0.0074	0.0035	mg/Kg	☼	07/16/17 09:00	07/16/17 19:32	1
Methyl tert-butyl ether	ND		0.0074	0.0055	mg/Kg	☼	07/16/17 09:00	07/16/17 19:32	1
n-Butylbenzene	ND		0.0074	0.0056	mg/Kg	☼	07/16/17 09:00	07/16/17 19:32	1
N-Propylbenzene	ND		0.0074	0.0031	mg/Kg	☼	07/16/17 09:00	07/16/17 19:32	1
sec-Butylbenzene	ND		0.0074	0.0036	mg/Kg	☼	07/16/17 09:00	07/16/17 19:32	1
tert-Butylbenzene	ND		0.0074	0.0027	mg/Kg	☼	07/16/17 09:00	07/16/17 19:32	1
Tetrachloroethene	ND		0.0074	0.0030	mg/Kg	☼	07/16/17 09:00	07/16/17 19:32	1
Toluene	ND		0.0074	0.0025	mg/Kg	☼	07/16/17 09:00	07/16/17 19:32	1
trans-1,2-Dichloroethene	ND		0.0074	0.0038	mg/Kg	☼	07/16/17 09:00	07/16/17 19:32	1
1,1,1-Trichloroethane	ND		0.0074	0.0037	mg/Kg	☼	07/16/17 09:00	07/16/17 19:32	1
Trichloroethene	ND		0.0074	0.0022	mg/Kg	☼	07/16/17 09:00	07/16/17 19:32	1

Client Sample ID: W3, S1 B 71117 — Lab Sample ID: 180-68096-20

Date Collected: 07/11/17 13:20 — **Matrix: Solid**
Date Received: 07/12/17 09:10 — **Percent Solids: 90.6**

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	ND		0.0074	0.0020	mg/Kg	☼	07/16/17 09:00	07/16/17 19:32	1
1,3,5-Trimethylbenzene	ND		0.0074	0.0026	mg/Kg	☼	07/16/17 09:00	07/16/17 19:32	1
Vinyl chloride	ND		0.0074	0.0055	mg/Kg	☼	07/16/17 09:00	07/16/17 19:32	1
Xylenes, Total	ND		0.015	0.0064	mg/Kg	☼	07/16/17 09:00	07/16/17 19:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*63 - 120*	*07/16/17 09:00*	*07/16/17 19:32*	*1*
Dibromofluoromethane (Surr)	*97*		*68 - 121*	*07/16/17 09:00*	*07/16/17 19:32*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*52 - 124*	*07/16/17 09:00*	*07/16/17 19:32*	*1*
Toluene-d8 (Surr)	*104*		*72 - 127*	*07/16/17 09:00*	*07/16/17 19:32*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.4**		0.1	0.1	%			07/12/17 16:42	1
Percent Solids	**90.6**		0.1	0.1	%			07/12/17 16:42	1

Client Sample ID: DUP-3 — Lab Sample ID: 180-68096-21

Date Collected: 07/11/17 00:00 — **Matrix: Solid**
Date Received: 07/12/17 09:10 — **Percent Solids: 91.9**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.020	0.0032	mg/Kg	☼	07/16/17 09:00	07/16/17 12:43	1
Benzene	ND		0.0051	0.0020	mg/Kg	☼	07/16/17 09:00	07/16/17 12:43	1
2-Butanone (MEK)	ND		0.0051	0.0030	mg/Kg	☼	07/16/17 09:00	07/16/17 12:43	1
Carbon tetrachloride	ND		0.0051	0.0034	mg/Kg	☼	07/16/17 09:00	07/16/17 12:43	1
Chlorobenzene	ND		0.0051	0.0016	mg/Kg	☼	07/16/17 09:00	07/16/17 12:43	1
Chloroform	ND		0.0051	0.0022	mg/Kg	☼	07/16/17 09:00	07/16/17 12:43	1
cis-1,2-Dichloroethene	ND		0.0051	0.0016	mg/Kg	☼	07/16/17 09:00	07/16/17 12:43	1
1,2-Dichlorobenzene	ND		0.0051	0.0041	mg/Kg	☼	07/16/17 09:00	07/16/17 12:43	1
1,3-Dichlorobenzene	ND		0.0051	0.0016	mg/Kg	☼	07/16/17 09:00	07/16/17 12:43	1
1,4-Dichlorobenzene	ND		0.0051	0.0010	mg/Kg	☼	07/16/17 09:00	07/16/17 12:43	1
1,1-Dichloroethane	ND		0.0051	0.0019	mg/Kg	☼	07/16/17 09:00	07/16/17 12:43	1
1,2-Dichloroethane	ND		0.0051	0.0015	mg/Kg	☼	07/16/17 09:00	07/16/17 12:43	1
1,1-Dichloroethene	ND		0.0051	0.0029	mg/Kg	☼	07/16/17 09:00	07/16/17 12:43	1
Ethylbenzene	ND		0.0051	0.0022	mg/Kg	☼	07/16/17 09:00	07/16/17 12:43	1
Methylene Chloride	ND		0.0051	0.0024	mg/Kg	☼	07/16/17 09:00	07/16/17 12:43	1
Methyl tert-butyl ether	ND		0.0051	0.0038	mg/Kg	☼	07/16/17 09:00	07/16/17 12:43	1
n-Butylbenzene	ND		0.0051	0.0039	mg/Kg	☼	07/16/17 09:00	07/16/17 12:43	1
N-Propylbenzene	ND		0.0051	0.0022	mg/Kg	☼	07/16/17 09:00	07/16/17 12:43	1
sec-Butylbenzene	ND		0.0051	0.0025	mg/Kg	☼	07/16/17 09:00	07/16/17 12:43	1
tert-Butylbenzene	ND		0.0051	0.0019	mg/Kg	☼	07/16/17 09:00	07/16/17 12:43	1
Tetrachloroethene	ND		0.0051	0.0020	mg/Kg	☼	07/16/17 09:00	07/16/17 12:43	1
Toluene	ND		0.0051	0.0017	mg/Kg	☼	07/16/17 09:00	07/16/17 12:43	1
trans-1,2-Dichloroethene	ND		0.0051	0.0026	mg/Kg	☼	07/16/17 09:00	07/16/17 12:43	1
1,1,1-Trichloroethane	ND		0.0051	0.0026	mg/Kg	☼	07/16/17 09:00	07/16/17 12:43	1
Trichloroethene	ND		0.0051	0.0015	mg/Kg	☼	07/16/17 09:00	07/16/17 12:43	1
1,2,4-Trimethylbenzene	ND		0.0051	0.0014	mg/Kg	☼	07/16/17 09:00	07/16/17 12:43	1
1,3,5-Trimethylbenzene	ND		0.0051	0.0018	mg/Kg	☼	07/16/17 09:00	07/16/17 12:43	1
Vinyl chloride	ND		0.0051	0.0038	mg/Kg	☼	07/16/17 09:00	07/16/17 12:43	1

Client Sample ID: DUP-3 — Lab Sample ID: 180-68096-21

Date Collected: 07/11/17 00:00 — **Matrix: Solid**
Date Received: 07/12/17 09:10 — **Percent Solids: 91.9**

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	ND		0.010	0.0044	mg/Kg	☼	07/16/17 09:00	07/16/17 12:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*63 - 120*	*07/16/17 09:00*	*07/16/17 12:43*	*1*
Dibromofluoromethane (Surr)	*90*		*68 - 121*	*07/16/17 09:00*	*07/16/17 12:43*	*1*
1,2-Dichloroethane-d4 (Surr)	*82*		*52 - 124*	*07/16/17 09:00*	*07/16/17 12:43*	*1*
Toluene-d8 (Surr)	*118*		*72 - 127*	*07/16/17 09:00*	*07/16/17 12:43*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**8.1**		0.1	0.1	%			07/12/17 16:42	1
Percent Solids	**91.9**		0.1	0.1	%			07/12/17 16:42	1

Client Sample ID: DUP-4 — Lab Sample ID: 180-68096-22

Date Collected: 07/11/17 00:00 — **Matrix: Solid**
Date Received: 07/12/17 09:10 — **Percent Solids: 91.2**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.014**	**J**	0.036	0.012	mg/Kg	☼	07/13/17 03:37	07/13/17 22:15	5
Acenaphthylene	**0.22**		0.036	0.012	mg/Kg	☼	07/13/17 03:37	07/13/17 22:15	5
Anthracene	**0.22**		0.036	0.013	mg/Kg	☼	07/13/17 03:37	07/13/17 22:15	5
Benzo[a]anthracene	**0.84**		0.036	0.014	mg/Kg	☼	07/13/17 03:37	07/13/17 22:15	5
Benzo[a]pyrene	**0.84**		0.036	0.015	mg/Kg	☼	07/13/17 03:37	07/13/17 22:15	5
Benzo[b]fluoranthene	**0.96**		0.036	0.016	mg/Kg	☼	07/13/17 03:37	07/13/17 22:15	5
Benzo[g,h,i]perylene	**1.0**		0.036	0.016	mg/Kg	☼	07/13/17 03:37	07/13/17 22:15	5
Benzo[k]fluoranthene	**0.40**		0.036	0.013	mg/Kg	☼	07/13/17 03:37	07/13/17 22:15	5
Chrysene	**0.86**		0.036	0.014	mg/Kg	☼	07/13/17 03:37	07/13/17 22:15	5
Dibenz(a,h)anthracene	**0.22**		0.036	0.015	mg/Kg	☼	07/13/17 03:37	07/13/17 22:15	5
Dibenzofuran	**0.061**	**J**	0.18	0.015	mg/Kg	☼	07/13/17 03:37	07/13/17 22:15	5
1,4-Dioxane	ND		0.36	0.027	mg/Kg	☼	07/13/17 03:37	07/13/17 22:15	5
Fluoranthene	**1.3**		0.036	0.014	mg/Kg	☼	07/13/17 03:37	07/13/17 22:15	5
Fluorene	**0.038**		0.036	0.013	mg/Kg	☼	07/13/17 03:37	07/13/17 22:15	5
Hexachlorobenzene	ND		0.036	0.015	mg/Kg	☼	07/13/17 03:37	07/13/17 22:15	5
Indeno[1,2,3-cd]pyrene	**0.89**		0.036	0.014	mg/Kg	☼	07/13/17 03:37	07/13/17 22:15	5
2-Methylphenol	ND		0.18	0.016	mg/Kg	☼	07/13/17 03:37	07/13/17 22:15	5
Methylphenol, 3 & 4	ND		0.18	0.016	mg/Kg	☼	07/13/17 03:37	07/13/17 22:15	5
Naphthalene	**0.22**		0.036	0.013	mg/Kg	☼	07/13/17 03:37	07/13/17 22:15	5
Pentachlorophenol	ND		0.93	0.34	mg/Kg	☼	07/13/17 03:37	07/13/17 22:15	5
Phenanthrene	**0.52**		0.036	0.015	mg/Kg	☼	07/13/17 03:37	07/13/17 22:15	5
Phenol	ND		0.18	0.025	mg/Kg	☼	07/13/17 03:37	07/13/17 22:15	5
Pyrene	**1.1**		0.036	0.016	mg/Kg	☼	07/13/17 03:37	07/13/17 22:15	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*46*		*42 - 100*	*07/13/17 03:37*	*07/13/17 22:15*	*5*
2-Fluorophenol (Surr)	*43*		*21 - 107*	*07/13/17 03:37*	*07/13/17 22:15*	*5*
Nitrobenzene-d5 (Surr)	*51*		*35 - 109*	*07/13/17 03:37*	*07/13/17 22:15*	*5*
Phenol-d5 (Surr)	*42*		*29 - 105*	*07/13/17 03:37*	*07/13/17 22:15*	*5*
Terphenyl-d14 (Surr)	*46*		*36 - 113*	*07/13/17 03:37*	*07/13/17 22:15*	*5*
2,4,6-Tribromophenol (Surr)	*52*		*20 - 134*	*07/13/17 03:37*	*07/13/17 22:15*	*5*

Client Sample ID: DUP-4 — Lab Sample ID: 180-68096-22

Date Collected: 07/11/17 00:00 — Matrix: Solid
Date Received: 07/12/17 09:10 — Percent Solids: 91.2

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.018	0.0096	mg/Kg	☼	07/13/17 03:34	07/14/17 17:08	1
PCB-1221	ND		0.018	0.0094	mg/Kg	☼	07/13/17 03:34	07/14/17 17:08	1
PCB-1232	ND		0.018	0.0072	mg/Kg	☼	07/13/17 03:34	07/14/17 17:08	1
PCB-1242	ND		0.018	0.014	mg/Kg	☼	07/13/17 03:34	07/14/17 17:08	1
PCB-1248	**0.56**		0.018	0.0087	mg/Kg	☼	07/13/17 03:34	07/14/17 17:08	1
PCB-1254	**0.38**		0.018	0.0080	mg/Kg	☼	07/13/17 03:34	07/14/17 17:08	1
PCB-1260	**0.14**		0.018	0.012	mg/Kg	☼	07/13/17 03:34	07/14/17 17:08	1
PCB-1262	ND		0.018	0.013	mg/Kg	☼	07/13/17 03:34	07/14/17 17:08	1
PCB-1268	ND		0.018	0.0055	mg/Kg	☼	07/13/17 03:34	07/14/17 17:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*64*		*23 - 150*	*07/13/17 03:34*	*07/14/17 17:08*	*1*
DCB Decachlorobiphenyl (Surr)	*74*		*23 - 150*	*07/13/17 03:34*	*07/14/17 17:08*	*1*
Tetrachloro-m-xylene (Surr)	*70*		*27 - 138*	*07/13/17 03:34*	*07/14/17 17:08*	*1*
Tetrachloro-m-xylene (Surr)	*62*		*27 - 138*	*07/13/17 03:34*	*07/14/17 17:08*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**8.4**		1.0	0.44	mg/Kg	☼	07/13/17 09:05	07/14/17 13:53	1
Barium	**74**		20	5.4	mg/Kg	☼	07/13/17 09:05	07/14/17 13:53	1
Beryllium	**0.28**	**J**	0.40	0.11	mg/Kg	☼	07/13/17 09:05	07/14/17 13:53	1
Cadmium	**0.20**	**J**	0.50	0.11	mg/Kg	☼	07/13/17 09:05	07/14/17 13:53	1
Chromium	**11**		0.50	0.13	mg/Kg	☼	07/13/17 09:05	07/14/17 13:53	1
Copper	**41**		2.5	0.77	mg/Kg	☼	07/13/17 09:05	07/14/17 13:53	1
Lead	**47**		1.0	0.33	mg/Kg	☼	07/13/17 09:05	07/14/17 13:53	1
Manganese	**310**		1.5	0.41	mg/Kg	☼	07/13/17 09:05	07/14/17 13:53	1
Nickel	**21**		4.0	0.91	mg/Kg	☼	07/13/17 09:05	07/14/17 13:53	1
Selenium	ND		1.0	0.40	mg/Kg	☼	07/13/17 09:05	07/14/17 13:53	1
Silver	ND		0.50	0.17	mg/Kg	☼	07/13/17 09:05	07/14/17 13:53	1
Zinc	**90**		2.0	1.0	mg/Kg	☼	07/13/17 09:05	07/14/17 13:53	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.71**		0.034	0.0077	mg/Kg	☼	07/14/17 11:17	07/17/17 09:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**8.8**		0.1	0.1	%			07/12/17 16:42	1
Percent Solids	**91.2**		0.1	0.1	%			07/12/17 16:42	1
Cyanide, Total	ND		0.53	0.16	mg/Kg	☼	07/13/17 12:02	07/13/17 16:14	1

Client Sample ID: W3, S1, C 71117 — Lab Sample ID: 180-68096-23

Date Collected: 07/11/17 13:25 — Matrix: Solid
Date Received: 07/12/17 09:10 — Percent Solids: 91.3

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.10**		0.072	0.024	mg/Kg	☼	07/13/17 03:37	07/13/17 22:42	10
Acenaphthylene	**0.55**		0.072	0.024	mg/Kg	☼	07/13/17 03:37	07/13/17 22:42	10
Anthracene	**2.3**		0.072	0.026	mg/Kg	☼	07/13/17 03:37	07/13/17 22:42	10
Benzo[a]anthracene	**2.2**		0.072	0.028	mg/Kg	☼	07/13/17 03:37	07/13/17 22:42	10

Client Sample ID: W3, S1, C 71117 **Lab Sample ID: 180-68096-23**
Date Collected: 07/11/17 13:25 **Matrix: Solid**
Date Received: 07/12/17 09:10 **Percent Solids: 91.3**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	**2.0**		0.072	0.030	mg/Kg	☼	07/13/17 03:37	07/13/17 22:42	10
Benzo[b]fluoranthene	**2.2**		0.072	0.031	mg/Kg	☼	07/13/17 03:37	07/13/17 22:42	10
Benzo[g,h,i]perylene	**2.0**		0.072	0.031	mg/Kg	☼	07/13/17 03:37	07/13/17 22:42	10
Benzo[k]fluoranthene	**0.86**		0.072	0.025	mg/Kg	☼	07/13/17 03:37	07/13/17 22:42	10
Chrysene	**2.0**		0.072	0.028	mg/Kg	☼	07/13/17 03:37	07/13/17 22:42	10
Dibenz(a,h)anthracene	**0.38**		0.072	0.030	mg/Kg	☼	07/13/17 03:37	07/13/17 22:42	10
Dibenzofuran	**0.27**	**J**	0.35	0.029	mg/Kg	☼	07/13/17 03:37	07/13/17 22:42	10
1,4-Dioxane	ND		0.72	0.054	mg/Kg	☼	07/13/17 03:37	07/13/17 22:42	10
Fluoranthene	**5.5**		0.072	0.028	mg/Kg	☼	07/13/17 03:37	07/13/17 22:42	10
Fluorene	**0.27**		0.072	0.026	mg/Kg	☼	07/13/17 03:37	07/13/17 22:42	10
Hexachlorobenzene	ND		0.072	0.029	mg/Kg	☼	07/13/17 03:37	07/13/17 22:42	10
Indeno[1,2,3-cd]pyrene	**1.7**		0.072	0.028	mg/Kg	☼	07/13/17 03:37	07/13/17 22:42	10
2-Methylphenol	ND		0.35	0.032	mg/Kg	☼	07/13/17 03:37	07/13/17 22:42	10
Methylphenol, 3 & 4	ND		0.35	0.032	mg/Kg	☼	07/13/17 03:37	07/13/17 22:42	10
Naphthalene	**0.38**		0.072	0.026	mg/Kg	☼	07/13/17 03:37	07/13/17 22:42	10
Pentachlorophenol	ND		1.8	0.68	mg/Kg	☼	07/13/17 03:37	07/13/17 22:42	10
Phenanthrene	**5.0**		0.072	0.030	mg/Kg	☼	07/13/17 03:37	07/13/17 22:42	10
Phenol	ND		0.35	0.048	mg/Kg	☼	07/13/17 03:37	07/13/17 22:42	10
Pyrene	**3.7**		0.072	0.032	mg/Kg	☼	07/13/17 03:37	07/13/17 22:42	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*60*		*42 - 100*	*07/13/17 03:37*	*07/13/17 22:42*	*10*
2-Fluorophenol (Surr)	*54*		*21 - 107*	*07/13/17 03:37*	*07/13/17 22:42*	*10*
Nitrobenzene-d5 (Surr)	*65*		*35 - 109*	*07/13/17 03:37*	*07/13/17 22:42*	*10*
Phenol-d5 (Surr)	*51*		*29 - 105*	*07/13/17 03:37*	*07/13/17 22:42*	*10*
Terphenyl-d14 (Surr)	*51*		*36 - 113*	*07/13/17 03:37*	*07/13/17 22:42*	*10*
2,4,6-Tribromophenol (Surr)	*53*		*20 - 134*	*07/13/17 03:37*	*07/13/17 22:42*	*10*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.018	0.0095	mg/Kg	☼	07/13/17 03:34	07/14/17 17:28	1
PCB-1221	ND		0.018	0.0093	mg/Kg	☼	07/13/17 03:34	07/14/17 17:28	1
PCB-1232	ND		0.018	0.0071	mg/Kg	☼	07/13/17 03:34	07/14/17 17:28	1
PCB-1242	ND		0.018	0.014	mg/Kg	☼	07/13/17 03:34	07/14/17 17:28	1
PCB-1248	**0.67**		0.018	0.0085	mg/Kg	☼	07/13/17 03:34	07/14/17 17:28	1
PCB-1254	**0.47**		0.018	0.0078	mg/Kg	☼	07/13/17 03:34	07/14/17 17:28	1
PCB-1260	**0.17**		0.018	0.012	mg/Kg	☼	07/13/17 03:34	07/14/17 17:28	1
PCB-1262	ND		0.018	0.013	mg/Kg	☼	07/13/17 03:34	07/14/17 17:28	1
PCB-1268	ND		0.018	0.0055	mg/Kg	☼	07/13/17 03:34	07/14/17 17:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*80*		*23 - 150*	*07/13/17 03:34*	*07/14/17 17:28*	*1*
DCB Decachlorobiphenyl (Surr)	*91*		*23 - 150*	*07/13/17 03:34*	*07/14/17 17:28*	*1*
Tetrachloro-m-xylene (Surr)	*84*		*27 - 138*	*07/13/17 03:34*	*07/14/17 17:28*	*1*
Tetrachloro-m-xylene (Surr)	*75*		*27 - 138*	*07/13/17 03:34*	*07/14/17 17:28*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**6.9**		1.1	0.50	mg/Kg	☼	07/13/17 09:05	07/14/17 13:58	1
Barium	**79**		23	6.1	mg/Kg	☼	07/13/17 09:05	07/14/17 13:58	1

Client Sample ID: W3, S1, C 71117 — Lab Sample ID: 180-68096-23

Date Collected: 07/11/17 13:25 — **Matrix: Solid**
Date Received: 07/12/17 09:10 — **Percent Solids: 91.3**

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	0.30	J	0.46	0.12	mg/Kg	☼	07/13/17 09:05	07/14/17 13:58	1
Cadmium	0.22	J	0.57	0.13	mg/Kg	☼	07/13/17 09:05	07/14/17 13:58	1
Chromium	9.6		0.57	0.15	mg/Kg	☼	07/13/17 09:05	07/14/17 13:58	1
Copper	58		2.9	0.88	mg/Kg	☼	07/13/17 09:05	07/14/17 13:58	1
Lead	51		1.1	0.37	mg/Kg	☼	07/13/17 09:05	07/14/17 13:58	1
Manganese	400		1.7	0.46	mg/Kg	☼	07/13/17 09:05	07/14/17 13:58	1
Nickel	16		4.6	1.0	mg/Kg	☼	07/13/17 09:05	07/14/17 13:58	1
Selenium	0.54	J	1.1	0.45	mg/Kg	☼	07/13/17 09:05	07/14/17 13:58	1
Silver	ND		0.57	0.19	mg/Kg	☼	07/13/17 09:05	07/14/17 13:58	1
Zinc	83		2.3	1.2	mg/Kg	☼	07/13/17 09:05	07/14/17 13:58	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.65		0.029	0.0066	mg/Kg	☼	07/14/17 11:17	07/17/17 09:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	8.7		0.1	0.1	%			07/12/17 16:42	1
Percent Solids	91.3		0.1	0.1	%			07/12/17 16:42	1
Cyanide, Total	ND		0.53	0.16	mg/Kg	☼	07/13/17 12:02	07/13/17 16:15	1

Client Sample ID: W3, S2, A 71117 — Lab Sample ID: 180-68096-24

Date Collected: 07/11/17 13:45 — **Matrix: Solid**
Date Received: 07/12/17 09:10 — **Percent Solids: 91.6**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.021	0.0033	mg/Kg	☼	07/16/17 09:00	07/16/17 13:05	1
Benzene	ND		0.0052	0.0020	mg/Kg	☼	07/16/17 09:00	07/16/17 13:05	1
2-Butanone (MEK)	ND		0.0052	0.0030	mg/Kg	☼	07/16/17 09:00	07/16/17 13:05	1
Carbon tetrachloride	ND		0.0052	0.0034	mg/Kg	☼	07/16/17 09:00	07/16/17 13:05	1
Chlorobenzene	ND		0.0052	0.0016	mg/Kg	☼	07/16/17 09:00	07/16/17 13:05	1
Chloroform	ND		0.0052	0.0022	mg/Kg	☼	07/16/17 09:00	07/16/17 13:05	1
cis-1,2-Dichloroethene	ND		0.0052	0.0016	mg/Kg	☼	07/16/17 09:00	07/16/17 13:05	1
1,2-Dichlorobenzene	ND		0.0052	0.0042	mg/Kg	☼	07/16/17 09:00	07/16/17 13:05	1
1,3-Dichlorobenzene	ND		0.0052	0.0017	mg/Kg	☼	07/16/17 09:00	07/16/17 13:05	1
1,4-Dichlorobenzene	ND		0.0052	0.0011	mg/Kg	☼	07/16/17 09:00	07/16/17 13:05	1
1,1-Dichloroethane	ND		0.0052	0.0019	mg/Kg	☼	07/16/17 09:00	07/16/17 13:05	1
1,2-Dichloroethane	ND		0.0052	0.0015	mg/Kg	☼	07/16/17 09:00	07/16/17 13:05	1
1,1-Dichloroethene	ND		0.0052	0.0030	mg/Kg	☼	07/16/17 09:00	07/16/17 13:05	1
Ethylbenzene	ND		0.0052	0.0022	mg/Kg	☼	07/16/17 09:00	07/16/17 13:05	1
Methylene Chloride	ND		0.0052	0.0024	mg/Kg	☼	07/16/17 09:00	07/16/17 13:05	1
Methyl tert-butyl ether	ND		0.0052	0.0038	mg/Kg	☼	07/16/17 09:00	07/16/17 13:05	1
n-Butylbenzene	ND		0.0052	0.0039	mg/Kg	☼	07/16/17 09:00	07/16/17 13:05	1
N-Propylbenzene	ND		0.0052	0.0022	mg/Kg	☼	07/16/17 09:00	07/16/17 13:05	1
sec-Butylbenzene	ND		0.0052	0.0025	mg/Kg	☼	07/16/17 09:00	07/16/17 13:05	1
tert-Butylbenzene	ND		0.0052	0.0019	mg/Kg	☼	07/16/17 09:00	07/16/17 13:05	1
Tetrachloroethene	ND		0.0052	0.0021	mg/Kg	☼	07/16/17 09:00	07/16/17 13:05	1
Toluene	ND		0.0052	0.0017	mg/Kg	☼	07/16/17 09:00	07/16/17 13:05	1
trans-1,2-Dichloroethene	ND		0.0052	0.0026	mg/Kg	☼	07/16/17 09:00	07/16/17 13:05	1

Client Sample ID: W3, S2, A 71117 — Lab Sample ID: 180-68096-24

Date Collected: 07/11/17 13:45 — **Matrix: Solid**
Date Received: 07/12/17 09:10 — **Percent Solids: 91.6**

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.0052	0.0026	mg/Kg	☼	07/16/17 09:00	07/16/17 13:05	1
Trichloroethene	ND		0.0052	0.0016	mg/Kg	☼	07/16/17 09:00	07/16/17 13:05	1
1,2,4-Trimethylbenzene	ND		0.0052	0.0014	mg/Kg	☼	07/16/17 09:00	07/16/17 13:05	1
1,3,5-Trimethylbenzene	ND		0.0052	0.0018	mg/Kg	☼	07/16/17 09:00	07/16/17 13:05	1
Vinyl chloride	ND		0.0052	0.0038	mg/Kg	☼	07/16/17 09:00	07/16/17 13:05	1
Xylenes, Total	ND		0.010	0.0045	mg/Kg	☼	07/16/17 09:00	07/16/17 13:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*63 - 120*	*07/16/17 09:00*	*07/16/17 13:05*	*1*
Dibromofluoromethane (Surr)	*87*		*68 - 121*	*07/16/17 09:00*	*07/16/17 13:05*	*1*
1,2-Dichloroethane-d4 (Surr)	*78*		*52 - 124*	*07/16/17 09:00*	*07/16/17 13:05*	*1*
Toluene-d8 (Surr)	*113*		*72 - 127*	*07/16/17 09:00*	*07/16/17 13:05*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**8.4**		0.1	0.1	%			07/12/17 16:42	1
Percent Solids	**91.6**		0.1	0.1	%			07/12/17 16:42	1

Client Sample ID: W3, S2, B 71117 — Lab Sample ID: 180-68096-25

Date Collected: 07/11/17 13:50 — **Matrix: Solid**
Date Received: 07/12/17 09:10 — **Percent Solids: 92.3**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.020	0.0031	mg/Kg	☼	07/16/17 09:00	07/16/17 13:28	1
Benzene	ND		0.0050	0.0020	mg/Kg	☼	07/16/17 09:00	07/16/17 13:28	1
2-Butanone (MEK)	ND		0.0050	0.0029	mg/Kg	☼	07/16/17 09:00	07/16/17 13:28	1
Carbon tetrachloride	ND		0.0050	0.0033	mg/Kg	☼	07/16/17 09:00	07/16/17 13:28	1
Chlorobenzene	ND		0.0050	0.0016	mg/Kg	☼	07/16/17 09:00	07/16/17 13:28	1
Chloroform	ND		0.0050	0.0021	mg/Kg	☼	07/16/17 09:00	07/16/17 13:28	1
cis-1,2-Dichloroethene	ND		0.0050	0.0016	mg/Kg	☼	07/16/17 09:00	07/16/17 13:28	1
1,2-Dichlorobenzene	ND		0.0050	0.0040	mg/Kg	☼	07/16/17 09:00	07/16/17 13:28	1
1,3-Dichlorobenzene	ND		0.0050	0.0016	mg/Kg	☼	07/16/17 09:00	07/16/17 13:28	1
1,4-Dichlorobenzene	ND		0.0050	0.0010	mg/Kg	☼	07/16/17 09:00	07/16/17 13:28	1
1,1-Dichloroethane	ND		0.0050	0.0018	mg/Kg	☼	07/16/17 09:00	07/16/17 13:28	1
1,2-Dichloroethane	ND		0.0050	0.0014	mg/Kg	☼	07/16/17 09:00	07/16/17 13:28	1
1,1-Dichloroethene	ND		0.0050	0.0028	mg/Kg	☼	07/16/17 09:00	07/16/17 13:28	1
Ethylbenzene	ND		0.0050	0.0021	mg/Kg	☼	07/16/17 09:00	07/16/17 13:28	1
Methylene Chloride	ND		0.0050	0.0024	mg/Kg	☼	07/16/17 09:00	07/16/17 13:28	1
Methyl tert-butyl ether	ND		0.0050	0.0037	mg/Kg	☼	07/16/17 09:00	07/16/17 13:28	1
n-Butylbenzene	ND		0.0050	0.0038	mg/Kg	☼	07/16/17 09:00	07/16/17 13:28	1
N-Propylbenzene	ND		0.0050	0.0021	mg/Kg	☼	07/16/17 09:00	07/16/17 13:28	1
sec-Butylbenzene	ND		0.0050	0.0024	mg/Kg	☼	07/16/17 09:00	07/16/17 13:28	1
tert-Butylbenzene	ND		0.0050	0.0018	mg/Kg	☼	07/16/17 09:00	07/16/17 13:28	1
Tetrachloroethene	ND		0.0050	0.0020	mg/Kg	☼	07/16/17 09:00	07/16/17 13:28	1
Toluene	ND		0.0050	0.0017	mg/Kg	☼	07/16/17 09:00	07/16/17 13:28	1
trans-1,2-Dichloroethene	ND		0.0050	0.0025	mg/Kg	☼	07/16/17 09:00	07/16/17 13:28	1
1,1,1-Trichloroethane	ND		0.0050	0.0025	mg/Kg	☼	07/16/17 09:00	07/16/17 13:28	1
Trichloroethene	ND		0.0050	0.0015	mg/Kg	☼	07/16/17 09:00	07/16/17 13:28	1
1,2,4-Trimethylbenzene	ND		0.0050	0.0013	mg/Kg	☼	07/16/17 09:00	07/16/17 13:28	1

Client Sample ID: W3, S2, B 71117 — Lab Sample ID: 180-68096-25

Date Collected: 07/11/17 13:50 — **Matrix: Solid**
Date Received: 07/12/17 09:10 — **Percent Solids: 92.3**

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	ND		0.0050	0.0017	mg/Kg	☼	07/16/17 09:00	07/16/17 13:28	1
Vinyl chloride	ND		0.0050	0.0037	mg/Kg	☼	07/16/17 09:00	07/16/17 13:28	1
Xylenes, Total	ND		0.010	0.0043	mg/Kg	☼	07/16/17 09:00	07/16/17 13:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*63 - 120*	*07/16/17 09:00*	*07/16/17 13:28*	*1*
Dibromofluoromethane (Surr)	*93*		*68 - 121*	*07/16/17 09:00*	*07/16/17 13:28*	*1*
1,2-Dichloroethane-d4 (Surr)	*85*		*52 - 124*	*07/16/17 09:00*	*07/16/17 13:28*	*1*
Toluene-d8 (Surr)	*126*		*72 - 127*	*07/16/17 09:00*	*07/16/17 13:28*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**7.7**		0.1	0.1	%			07/12/17 16:42	1
Percent Solids	**92.3**		0.1	0.1	%			07/12/17 16:42	1

Client Sample ID: W3, S2, C 71117 — Lab Sample ID: 180-68096-26

Date Collected: 07/11/17 13:55 — **Matrix: Solid**
Date Received: 07/12/17 09:10 — **Percent Solids: 91.5**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.072	0.024	mg/Kg	☼	07/13/17 03:37	07/17/17 11:48	10
Acenaphthylene	**0.10**		0.072	0.024	mg/Kg	☼	07/13/17 03:37	07/17/17 11:48	10
Anthracene	**0.12**		0.072	0.027	mg/Kg	☼	07/13/17 03:37	07/17/17 11:48	10
Benzo[a]anthracene	**0.53**		0.072	0.029	mg/Kg	☼	07/13/17 03:37	07/17/17 11:48	10
Benzo[a]pyrene	**0.56**		0.072	0.030	mg/Kg	☼	07/13/17 03:37	07/17/17 11:48	10
Benzo[b]fluoranthene	**0.77**		0.072	0.031	mg/Kg	☼	07/13/17 03:37	07/17/17 11:48	10
Benzo[g,h,i]perylene	**0.54**		0.072	0.031	mg/Kg	☼	07/13/17 03:37	07/17/17 11:48	10
Benzo[k]fluoranthene	**0.21**		0.072	0.025	mg/Kg	☼	07/13/17 03:37	07/17/17 11:48	10
Chrysene	**0.51**		0.072	0.028	mg/Kg	☼	07/13/17 03:37	07/17/17 11:48	10
Dibenz(a,h)anthracene	**0.12**		0.072	0.030	mg/Kg	☼	07/13/17 03:37	07/17/17 11:48	10
Dibenzofuran	**0.064**	**J**	0.36	0.029	mg/Kg	☼	07/13/17 03:37	07/17/17 11:48	10
1,4-Dioxane	ND		0.72	0.054	mg/Kg	☼	07/13/17 03:37	07/17/17 11:48	10
Fluoranthene	**0.73**		0.072	0.028	mg/Kg	☼	07/13/17 03:37	07/17/17 11:48	10
Fluorene	**0.033**	**J**	0.072	0.026	mg/Kg	☼	07/13/17 03:37	07/17/17 11:48	10
Hexachlorobenzene	ND		0.072	0.029	mg/Kg	☼	07/13/17 03:37	07/17/17 11:48	10
Indeno[1,2,3-cd]pyrene	**0.48**		0.072	0.028	mg/Kg	☼	07/13/17 03:37	07/17/17 11:48	10
2-Methylphenol	ND		0.36	0.032	mg/Kg	☼	07/13/17 03:37	07/17/17 11:48	10
Methylphenol, 3 & 4	ND		0.36	0.032	mg/Kg	☼	07/13/17 03:37	07/17/17 11:48	10
Naphthalene	**0.16**		0.072	0.026	mg/Kg	☼	07/13/17 03:37	07/17/17 11:48	10
Pentachlorophenol	ND		1.8	0.68	mg/Kg	☼	07/13/17 03:37	07/17/17 11:48	10
Phenanthrene	**0.39**		0.072	0.030	mg/Kg	☼	07/13/17 03:37	07/17/17 11:48	10
Phenol	ND		0.36	0.049	mg/Kg	☼	07/13/17 03:37	07/17/17 11:48	10
Pyrene	**0.88**		0.072	0.032	mg/Kg	☼	07/13/17 03:37	07/17/17 11:48	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*53*		*42 - 100*	*07/13/17 03:37*	*07/17/17 11:48*	*10*
2-Fluorophenol (Surr)	*51*		*21 - 107*	*07/13/17 03:37*	*07/17/17 11:48*	*10*
Nitrobenzene-d5 (Surr)	*61*		*35 - 109*	*07/13/17 03:37*	*07/17/17 11:48*	*10*
Phenol-d5 (Surr)	*50*		*29 - 105*	*07/13/17 03:37*	*07/17/17 11:48*	*10*

Client Sample ID: W3, S2, C 71117 **Lab Sample ID: 180-68096-26**
Date Collected: 07/11/17 13:55 **Matrix: Solid**
Date Received: 07/12/17 09:10 **Percent Solids: 91.5**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14 (Surr)	*63*		*36 - 113*	*07/13/17 03:37*	*07/17/17 11:48*	*10*
2,4,6-Tribromophenol (Surr)	*48*		*20 - 134*	*07/13/17 03:37*	*07/17/17 11:48*	*10*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.018	0.0095	mg/Kg	☼	07/13/17 03:34	07/14/17 17:49	1
PCB-1221	ND		0.018	0.0093	mg/Kg	☼	07/13/17 03:34	07/14/17 17:49	1
PCB-1232	ND		0.018	0.0071	mg/Kg	☼	07/13/17 03:34	07/14/17 17:49	1
PCB-1242	ND		0.018	0.014	mg/Kg	☼	07/13/17 03:34	07/14/17 17:49	1
PCB-1248	**0.65**		0.018	0.0086	mg/Kg	☼	07/13/17 03:34	07/14/17 17:49	1
PCB-1254	**0.44**		0.018	0.0079	mg/Kg	☼	07/13/17 03:34	07/14/17 17:49	1
PCB-1260	**0.15**		0.018	0.012	mg/Kg	☼	07/13/17 03:34	07/14/17 17:49	1
PCB-1262	ND		0.018	0.013	mg/Kg	☼	07/13/17 03:34	07/14/17 17:49	1
PCB-1268	ND		0.018	0.0055	mg/Kg	☼	07/13/17 03:34	07/14/17 17:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*69*		*23 - 150*	*07/13/17 03:34*	*07/14/17 17:49*	*1*
DCB Decachlorobiphenyl (Surr)	*78*		*23 - 150*	*07/13/17 03:34*	*07/14/17 17:49*	*1*
Tetrachloro-m-xylene (Surr)	*72*		*27 - 138*	*07/13/17 03:34*	*07/14/17 17:49*	*1*
Tetrachloro-m-xylene (Surr)	*65*		*27 - 138*	*07/13/17 03:34*	*07/14/17 17:49*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**6.8**		1.1	0.48	mg/Kg	☼	07/13/17 09:05	07/14/17 14:03	1
Barium	**69**		22	5.8	mg/Kg	☼	07/13/17 09:05	07/14/17 14:03	1
Beryllium	**0.27**	**J**	0.43	0.11	mg/Kg	☼	07/13/17 09:05	07/14/17 14:03	1
Cadmium	**0.13**	**J**	0.54	0.12	mg/Kg	☼	07/13/17 09:05	07/14/17 14:03	1
Chromium	**8.1**		0.54	0.14	mg/Kg	☼	07/13/17 09:05	07/14/17 14:03	1
Copper	**35**		2.7	0.83	mg/Kg	☼	07/13/17 09:05	07/14/17 14:03	1
Lead	**46**		1.1	0.36	mg/Kg	☼	07/13/17 09:05	07/14/17 14:03	1
Manganese	**320**		1.6	0.44	mg/Kg	☼	07/13/17 09:05	07/14/17 14:03	1
Nickel	**14**		4.3	0.97	mg/Kg	☼	07/13/17 09:05	07/14/17 14:03	1
Selenium	ND		1.1	0.43	mg/Kg	☼	07/13/17 09:05	07/14/17 14:03	1
Silver	ND		0.54	0.18	mg/Kg	☼	07/13/17 09:05	07/14/17 14:03	1
Zinc	**69**		2.2	1.1	mg/Kg	☼	07/13/17 09:05	07/14/17 14:03	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.61**		0.030	0.0067	mg/Kg	☼	07/14/17 11:17	07/17/17 09:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**8.5**		0.1	0.1	%			07/12/17 16:42	1
Percent Solids	**91.5**		0.1	0.1	%			07/12/17 16:42	1
Cyanide, Total	**0.18**	**J**	0.53	0.16	mg/Kg	☼	07/13/17 12:02	07/13/17 16:17	1

Client Sample ID: W3, S3, A 71117 — Lab Sample ID: 180-68096-27

Date Collected: 07/11/17 14:15 — **Matrix: Solid**
Date Received: 07/12/17 09:10 — **Percent Solids: 91.8**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.024	0.0038	mg/Kg	☼	07/16/17 09:00	07/16/17 13:50	1
Benzene	ND		0.0060	0.0024	mg/Kg	☼	07/16/17 09:00	07/16/17 13:50	1
2-Butanone (MEK)	ND		0.0060	0.0035	mg/Kg	☼	07/16/17 09:00	07/16/17 13:50	1
Carbon tetrachloride	ND		0.0060	0.0040	mg/Kg	☼	07/16/17 09:00	07/16/17 13:50	1
Chlorobenzene	ND		0.0060	0.0019	mg/Kg	☼	07/16/17 09:00	07/16/17 13:50	1
Chloroform	ND		0.0060	0.0025	mg/Kg	☼	07/16/17 09:00	07/16/17 13:50	1
cis-1,2-Dichloroethene	ND		0.0060	0.0019	mg/Kg	☼	07/16/17 09:00	07/16/17 13:50	1
1,2-Dichlorobenzene	ND		0.0060	0.0048	mg/Kg	☼	07/16/17 09:00	07/16/17 13:50	1
1,3-Dichlorobenzene	ND		0.0060	0.0019	mg/Kg	☼	07/16/17 09:00	07/16/17 13:50	1
1,4-Dichlorobenzene	ND		0.0060	0.0012	mg/Kg	☼	07/16/17 09:00	07/16/17 13:50	1
1,1-Dichloroethane	ND		0.0060	0.0022	mg/Kg	☼	07/16/17 09:00	07/16/17 13:50	1
1,2-Dichloroethane	ND		0.0060	0.0017	mg/Kg	☼	07/16/17 09:00	07/16/17 13:50	1
1,1-Dichloroethene	ND		0.0060	0.0034	mg/Kg	☼	07/16/17 09:00	07/16/17 13:50	1
Ethylbenzene	ND		0.0060	0.0026	mg/Kg	☼	07/16/17 09:00	07/16/17 13:50	1
Methylene Chloride	ND		0.0060	0.0028	mg/Kg	☼	07/16/17 09:00	07/16/17 13:50	1
Methyl tert-butyl ether	ND		0.0060	0.0044	mg/Kg	☼	07/16/17 09:00	07/16/17 13:50	1
n-Butylbenzene	ND		0.0060	0.0045	mg/Kg	☼	07/16/17 09:00	07/16/17 13:50	1
N-Propylbenzene	ND		0.0060	0.0025	mg/Kg	☼	07/16/17 09:00	07/16/17 13:50	1
sec-Butylbenzene	ND		0.0060	0.0029	mg/Kg	☼	07/16/17 09:00	07/16/17 13:50	1
tert-Butylbenzene	ND		0.0060	0.0022	mg/Kg	☼	07/16/17 09:00	07/16/17 13:50	1
Tetrachloroethene	ND		0.0060	0.0024	mg/Kg	☼	07/16/17 09:00	07/16/17 13:50	1
Toluene	ND		0.0060	0.0020	mg/Kg	☼	07/16/17 09:00	07/16/17 13:50	1
trans-1,2-Dichloroethene	ND		0.0060	0.0030	mg/Kg	☼	07/16/17 09:00	07/16/17 13:50	1
1,1,1-Trichloroethane	ND		0.0060	0.0030	mg/Kg	☼	07/16/17 09:00	07/16/17 13:50	1
Trichloroethene	ND		0.0060	0.0018	mg/Kg	☼	07/16/17 09:00	07/16/17 13:50	1
1,2,4-Trimethylbenzene	ND		0.0060	0.0016	mg/Kg	☼	07/16/17 09:00	07/16/17 13:50	1
1,3,5-Trimethylbenzene	ND		0.0060	0.0021	mg/Kg	☼	07/16/17 09:00	07/16/17 13:50	1
Vinyl chloride	ND		0.0060	0.0044	mg/Kg	☼	07/16/17 09:00	07/16/17 13:50	1
Xylenes, Total	ND		0.012	0.0052	mg/Kg	☼	07/16/17 09:00	07/16/17 13:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*63 - 120*	*07/16/17 09:00*	*07/16/17 13:50*	*1*
Dibromofluoromethane (Surr)	*88*		*68 - 121*	*07/16/17 09:00*	*07/16/17 13:50*	*1*
1,2-Dichloroethane-d4 (Surr)	*78*		*52 - 124*	*07/16/17 09:00*	*07/16/17 13:50*	*1*
Toluene-d8 (Surr)	*118*		*72 - 127*	*07/16/17 09:00*	*07/16/17 13:50*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**8.2**		0.1	0.1	%			07/12/17 16:42	1
Percent Solids	**91.8**		0.1	0.1	%			07/12/17 16:42	1

Client Sample ID: W3, S3, B 71117 — Lab Sample ID: 180-68096-28

Date Collected: 07/11/17 14:20 — **Matrix: Solid**
Date Received: 07/12/17 09:10 — **Percent Solids: 89.1**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.022	0.0035	mg/Kg	☼	07/16/17 09:00	07/16/17 14:13	1
Benzene	ND		0.0055	0.0022	mg/Kg	☼	07/16/17 09:00	07/16/17 14:13	1
2-Butanone (MEK)	ND		0.0055	0.0032	mg/Kg	☼	07/16/17 09:00	07/16/17 14:13	1

Client Sample ID: W3, S3, B 71117 — Lab Sample ID: 180-68096-28

Date Collected: 07/11/17 14:20 — **Matrix: Solid**
Date Received: 07/12/17 09:10 — **Percent Solids: 89.1**

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	ND		0.0055	0.0037	mg/Kg	☼	07/16/17 09:00	07/16/17 14:13	1
Chlorobenzene	ND		0.0055	0.0017	mg/Kg	☼	07/16/17 09:00	07/16/17 14:13	1
Chloroform	ND		0.0055	0.0023	mg/Kg	☼	07/16/17 09:00	07/16/17 14:13	1
cis-1,2-Dichloroethene	ND		0.0055	0.0017	mg/Kg	☼	07/16/17 09:00	07/16/17 14:13	1
1,2-Dichlorobenzene	ND		0.0055	0.0044	mg/Kg	☼	07/16/17 09:00	07/16/17 14:13	1
1,3-Dichlorobenzene	ND		0.0055	0.0018	mg/Kg	☼	07/16/17 09:00	07/16/17 14:13	1
1,4-Dichlorobenzene	ND		0.0055	0.0011	mg/Kg	☼	07/16/17 09:00	07/16/17 14:13	1
1,1-Dichloroethane	ND		0.0055	0.0020	mg/Kg	☼	07/16/17 09:00	07/16/17 14:13	1
1,2-Dichloroethane	ND		0.0055	0.0016	mg/Kg	☼	07/16/17 09:00	07/16/17 14:13	1
1,1-Dichloroethene	ND		0.0055	0.0031	mg/Kg	☼	07/16/17 09:00	07/16/17 14:13	1
Ethylbenzene	ND		0.0055	0.0024	mg/Kg	☼	07/16/17 09:00	07/16/17 14:13	1
Methylene Chloride	ND		0.0055	0.0026	mg/Kg	☼	07/16/17 09:00	07/16/17 14:13	1
Methyl tert-butyl ether	ND		0.0055	0.0041	mg/Kg	☼	07/16/17 09:00	07/16/17 14:13	1
n-Butylbenzene	ND		0.0055	0.0042	mg/Kg	☼	07/16/17 09:00	07/16/17 14:13	1
N-Propylbenzene	ND		0.0055	0.0023	mg/Kg	☼	07/16/17 09:00	07/16/17 14:13	1
sec-Butylbenzene	ND		0.0055	0.0027	mg/Kg	☼	07/16/17 09:00	07/16/17 14:13	1
tert-Butylbenzene	ND		0.0055	0.0020	mg/Kg	☼	07/16/17 09:00	07/16/17 14:13	1
Tetrachloroethene	ND		0.0055	0.0022	mg/Kg	☼	07/16/17 09:00	07/16/17 14:13	1
Toluene	ND		0.0055	0.0019	mg/Kg	☼	07/16/17 09:00	07/16/17 14:13	1
trans-1,2-Dichloroethene	ND		0.0055	0.0028	mg/Kg	☼	07/16/17 09:00	07/16/17 14:13	1
1,1,1-Trichloroethane	ND		0.0055	0.0028	mg/Kg	☼	07/16/17 09:00	07/16/17 14:13	1
Trichloroethene	ND		0.0055	0.0017	mg/Kg	☼	07/16/17 09:00	07/16/17 14:13	1
1,2,4-Trimethylbenzene	ND		0.0055	0.0015	mg/Kg	☼	07/16/17 09:00	07/16/17 14:13	1
1,3,5-Trimethylbenzene	ND		0.0055	0.0019	mg/Kg	☼	07/16/17 09:00	07/16/17 14:13	1
Vinyl chloride	ND		0.0055	0.0041	mg/Kg	☼	07/16/17 09:00	07/16/17 14:13	1
Xylenes, Total	ND		0.011	0.0048	mg/Kg	☼	07/16/17 09:00	07/16/17 14:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*63 - 120*	*07/16/17 09:00*	*07/16/17 14:13*	*1*
Dibromofluoromethane (Surr)	*89*		*68 - 121*	*07/16/17 09:00*	*07/16/17 14:13*	*1*
1,2-Dichloroethane-d4 (Surr)	*82*		*52 - 124*	*07/16/17 09:00*	*07/16/17 14:13*	*1*
Toluene-d8 (Surr)	*118*		*72 - 127*	*07/16/17 09:00*	*07/16/17 14:13*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**10.9**		0.1	0.1	%			07/12/17 16:42	1
Percent Solids	**89.1**		0.1	0.1	%			07/12/17 16:42	1

Client Sample ID: W3, S3, C 71117 — Lab Sample ID: 180-68096-29

Date Collected: 07/11/17 14:25 — **Matrix: Solid**
Date Received: 07/12/17 09:10 — **Percent Solids: 90.8**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.073	0.025	mg/Kg	☼	07/13/17 03:37	07/17/17 12:16	10
Acenaphthylene	**0.13**		0.073	0.025	mg/Kg	☼	07/13/17 03:37	07/17/17 12:16	10
Anthracene	**0.15**		0.073	0.027	mg/Kg	☼	07/13/17 03:37	07/17/17 12:16	10
Benzo[a]anthracene	**0.64**		0.073	0.029	mg/Kg	☼	07/13/17 03:37	07/17/17 12:16	10
Benzo[a]pyrene	**0.72**		0.073	0.030	mg/Kg	☼	07/13/17 03:37	07/17/17 12:16	10
Benzo[b]fluoranthene	**0.84**		0.073	0.032	mg/Kg	☼	07/13/17 03:37	07/17/17 12:16	10

Client Sample ID: W3, S3, C 71117 **Lab Sample ID: 180-68096-29**
Date Collected: 07/11/17 14:25 **Matrix: Solid**
Date Received: 07/12/17 09:10 **Percent Solids: 90.8**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	**0.73**		0.073	0.032	mg/Kg	☼	07/13/17 03:37	07/17/17 12:16	10
Benzo[k]fluoranthene	**0.38**		0.073	0.025	mg/Kg	☼	07/13/17 03:37	07/17/17 12:16	10
Chrysene	**0.56**		0.073	0.028	mg/Kg	☼	07/13/17 03:37	07/17/17 12:16	10
Dibenz(a,h)anthracene	**0.19**		0.073	0.030	mg/Kg	☼	07/13/17 03:37	07/17/17 12:16	10
Dibenzofuran	**0.070**	**J**	0.36	0.029	mg/Kg	☼	07/13/17 03:37	07/17/17 12:16	10
1,4-Dioxane	ND		0.73	0.055	mg/Kg	☼	07/13/17 03:37	07/17/17 12:16	10
Fluoranthene	**0.92**		0.073	0.029	mg/Kg	☼	07/13/17 03:37	07/17/17 12:16	10
Fluorene	**0.042**	**J**	0.073	0.026	mg/Kg	☼	07/13/17 03:37	07/17/17 12:16	10
Hexachlorobenzene	ND		0.073	0.029	mg/Kg	☼	07/13/17 03:37	07/17/17 12:16	10
Indeno[1,2,3-cd]pyrene	**0.61**		0.073	0.028	mg/Kg	☼	07/13/17 03:37	07/17/17 12:16	10
2-Methylphenol	ND		0.36	0.032	mg/Kg	☼	07/13/17 03:37	07/17/17 12:16	10
Methylphenol, 3 & 4	ND		0.36	0.032	mg/Kg	☼	07/13/17 03:37	07/17/17 12:16	10
Naphthalene	**0.18**		0.073	0.026	mg/Kg	☼	07/13/17 03:37	07/17/17 12:16	10
Pentachlorophenol	ND		1.9	0.69	mg/Kg	☼	07/13/17 03:37	07/17/17 12:16	10
Phenanthrene	**0.46**		0.073	0.030	mg/Kg	☼	07/13/17 03:37	07/17/17 12:16	10
Phenol	ND		0.36	0.049	mg/Kg	☼	07/13/17 03:37	07/17/17 12:16	10
Pyrene	**1.1**		0.073	0.032	mg/Kg	☼	07/13/17 03:37	07/17/17 12:16	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*59*		*42 - 100*	*07/13/17 03:37*	*07/17/17 12:16*	*10*
2-Fluorophenol (Surr)	*54*		*21 - 107*	*07/13/17 03:37*	*07/17/17 12:16*	*10*
Nitrobenzene-d5 (Surr)	*61*		*35 - 109*	*07/13/17 03:37*	*07/17/17 12:16*	*10*
Phenol-d5 (Surr)	*56*		*29 - 105*	*07/13/17 03:37*	*07/17/17 12:16*	*10*
Terphenyl-d14 (Surr)	*68*		*36 - 113*	*07/13/17 03:37*	*07/17/17 12:16*	*10*
2,4,6-Tribromophenol (Surr)	*56*		*20 - 134*	*07/13/17 03:37*	*07/17/17 12:16*	*10*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.018	0.0096	mg/Kg	☼	07/13/17 03:34	07/14/17 18:09	1
PCB-1221	ND		0.018	0.0094	mg/Kg	☼	07/13/17 03:34	07/14/17 18:09	1
PCB-1232	ND		0.018	0.0072	mg/Kg	☼	07/13/17 03:34	07/14/17 18:09	1
PCB-1242	ND		0.018	0.014	mg/Kg	☼	07/13/17 03:34	07/14/17 18:09	1
PCB-1248	**0.88**		0.018	0.0086	mg/Kg	☼	07/13/17 03:34	07/14/17 18:09	1
PCB-1254	**0.59**		0.018	0.0079	mg/Kg	☼	07/13/17 03:34	07/14/17 18:09	1
PCB-1260	**0.17**		0.018	0.012	mg/Kg	☼	07/13/17 03:34	07/14/17 18:09	1
PCB-1262	ND		0.018	0.013	mg/Kg	☼	07/13/17 03:34	07/14/17 18:09	1
PCB-1268	ND		0.018	0.0055	mg/Kg	☼	07/13/17 03:34	07/14/17 18:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*69*		*23 - 150*	*07/13/17 03:34*	*07/14/17 18:09*	*1*
DCB Decachlorobiphenyl (Surr)	*80*		*23 - 150*	*07/13/17 03:34*	*07/14/17 18:09*	*1*
Tetrachloro-m-xylene (Surr)	*77*		*27 - 138*	*07/13/17 03:34*	*07/14/17 18:09*	*1*
Tetrachloro-m-xylene (Surr)	*69*		*27 - 138*	*07/13/17 03:34*	*07/14/17 18:09*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**5.6**		1.0	0.45	mg/Kg	☼	07/13/17 09:05	07/14/17 14:08	1
Barium	**77**		21	5.5	mg/Kg	☼	07/13/17 09:05	07/14/17 14:08	1
Beryllium	**0.27**	**J**	0.41	0.11	mg/Kg	☼	07/13/17 09:05	07/14/17 14:08	1
Cadmium	**0.17**	**J**	0.51	0.12	mg/Kg	☼	07/13/17 09:05	07/14/17 14:08	1

Client Sample ID: W3, S3, C 71117 — Lab Sample ID: 180-68096-29

Date Collected: 07/11/17 14:25 — **Matrix: Solid**
Date Received: 07/12/17 09:10 — **Percent Solids: 90.8**

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	8.2		0.51	0.13	mg/Kg	☼	07/13/17 09:05	07/14/17 14:08	1
Copper	38		2.6	0.79	mg/Kg	☼	07/13/17 09:05	07/14/17 14:08	1
Lead	42		1.0	0.34	mg/Kg	☼	07/13/17 09:05	07/14/17 14:08	1
Manganese	340		1.5	0.42	mg/Kg	☼	07/13/17 09:05	07/14/17 14:08	1
Nickel	16		4.1	0.93	mg/Kg	☼	07/13/17 09:05	07/14/17 14:08	1
Selenium	0.90	J	1.0	0.41	mg/Kg	☼	07/13/17 09:05	07/14/17 14:08	1
Silver	ND		0.51	0.17	mg/Kg	☼	07/13/17 09:05	07/14/17 14:08	1
Zinc	75		2.1	1.0	mg/Kg	☼	07/13/17 09:05	07/14/17 14:08	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.48		0.037	0.0083	mg/Kg	☼	07/14/17 11:17	07/17/17 09:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.2		0.1	0.1	%			07/12/17 16:42	1
Percent Solids	90.8		0.1	0.1	%			07/12/17 16:42	1
Cyanide, Total	0.93		0.55	0.17	mg/Kg	☼	07/13/17 12:02	07/13/17 16:19	1

Client Sample ID: W3, S4, A 71117 — Lab Sample ID: 180-68096-30

Date Collected: 07/11/17 14:45 — **Matrix: Solid**
Date Received: 07/12/17 09:10 — **Percent Solids: 90.1**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.021	0.0032	mg/Kg	☼	07/16/17 09:00	07/16/17 19:55	1
Benzene	ND		0.0051	0.0020	mg/Kg	☼	07/16/17 09:00	07/16/17 19:55	1
2-Butanone (MEK)	ND		0.0051	0.0030	mg/Kg	☼	07/16/17 09:00	07/16/17 19:55	1
Carbon tetrachloride	ND		0.0051	0.0034	mg/Kg	☼	07/16/17 09:00	07/16/17 19:55	1
Chlorobenzene	ND		0.0051	0.0016	mg/Kg	☼	07/16/17 09:00	07/16/17 19:55	1
Chloroform	ND		0.0051	0.0022	mg/Kg	☼	07/16/17 09:00	07/16/17 19:55	1
cis-1,2-Dichloroethene	ND		0.0051	0.0016	mg/Kg	☼	07/16/17 09:00	07/16/17 19:55	1
1,2-Dichlorobenzene	ND		0.0051	0.0041	mg/Kg	☼	07/16/17 09:00	07/16/17 19:55	1
1,3-Dichlorobenzene	ND		0.0051	0.0016	mg/Kg	☼	07/16/17 09:00	07/16/17 19:55	1
1,4-Dichlorobenzene	ND		0.0051	0.0010	mg/Kg	☼	07/16/17 09:00	07/16/17 19:55	1
1,1-Dichloroethane	ND		0.0051	0.0019	mg/Kg	☼	07/16/17 09:00	07/16/17 19:55	1
1,2-Dichloroethane	ND		0.0051	0.0015	mg/Kg	☼	07/16/17 09:00	07/16/17 19:55	1
1,1-Dichloroethene	ND		0.0051	0.0029	mg/Kg	☼	07/16/17 09:00	07/16/17 19:55	1
Ethylbenzene	ND		0.0051	0.0022	mg/Kg	☼	07/16/17 09:00	07/16/17 19:55	1
Methylene Chloride	ND		0.0051	0.0024	mg/Kg	☼	07/16/17 09:00	07/16/17 19:55	1
Methyl tert-butyl ether	ND		0.0051	0.0038	mg/Kg	☼	07/16/17 09:00	07/16/17 19:55	1
n-Butylbenzene	ND		0.0051	0.0039	mg/Kg	☼	07/16/17 09:00	07/16/17 19:55	1
N-Propylbenzene	ND		0.0051	0.0022	mg/Kg	☼	07/16/17 09:00	07/16/17 19:55	1
sec-Butylbenzene	ND		0.0051	0.0025	mg/Kg	☼	07/16/17 09:00	07/16/17 19:55	1
tert-Butylbenzene	ND		0.0051	0.0019	mg/Kg	☼	07/16/17 09:00	07/16/17 19:55	1
Tetrachloroethene	ND		0.0051	0.0021	mg/Kg	☼	07/16/17 09:00	07/16/17 19:55	1
Toluene	ND		0.0051	0.0017	mg/Kg	☼	07/16/17 09:00	07/16/17 19:55	1
trans-1,2-Dichloroethene	ND		0.0051	0.0026	mg/Kg	☼	07/16/17 09:00	07/16/17 19:55	1
1,1,1-Trichloroethane	ND		0.0051	0.0026	mg/Kg	☼	07/16/17 09:00	07/16/17 19:55	1
Trichloroethene	ND		0.0051	0.0015	mg/Kg	☼	07/16/17 09:00	07/16/17 19:55	1

Client Sample ID: W3, S4, A 71117 — Lab Sample ID: 180-68096-30

Date Collected: 07/11/17 14:45 — **Matrix: Solid**
Date Received: 07/12/17 09:10 — **Percent Solids: 90.1**

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	ND		0.0051	0.0014	mg/Kg	☼	07/16/17 09:00	07/16/17 19:55	1
1,3,5-Trimethylbenzene	ND		0.0051	0.0018	mg/Kg	☼	07/16/17 09:00	07/16/17 19:55	1
Vinyl chloride	ND		0.0051	0.0038	mg/Kg	☼	07/16/17 09:00	07/16/17 19:55	1
Xylenes, Total	ND		0.010	0.0044	mg/Kg	☼	07/16/17 09:00	07/16/17 19:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*63 - 120*	*07/16/17 09:00*	*07/16/17 19:55*	*1*
Dibromofluoromethane (Surr)	*96*		*68 - 121*	*07/16/17 09:00*	*07/16/17 19:55*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*52 - 124*	*07/16/17 09:00*	*07/16/17 19:55*	*1*
Toluene-d8 (Surr)	*106*		*72 - 127*	*07/16/17 09:00*	*07/16/17 19:55*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.9**		0.1	0.1	%			07/12/17 16:42	1
Percent Solids	**90.1**		0.1	0.1	%			07/12/17 16:42	1

Client Sample ID: W3, S4, B 71117 — Lab Sample ID: 180-68096-31

Date Collected: 07/11/17 14:50 — **Matrix: Solid**
Date Received: 07/12/17 09:10 — **Percent Solids: 91.9**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.018	0.0028	mg/Kg	☼	07/16/17 09:00	07/16/17 14:59	1
Benzene	ND		0.0044	0.0017	mg/Kg	☼	07/16/17 09:00	07/16/17 14:59	1
2-Butanone (MEK)	ND		0.0044	0.0026	mg/Kg	☼	07/16/17 09:00	07/16/17 14:59	1
Carbon tetrachloride	ND		0.0044	0.0029	mg/Kg	☼	07/16/17 09:00	07/16/17 14:59	1
Chlorobenzene	ND		0.0044	0.0014	mg/Kg	☼	07/16/17 09:00	07/16/17 14:59	1
Chloroform	ND		0.0044	0.0019	mg/Kg	☼	07/16/17 09:00	07/16/17 14:59	1
cis-1,2-Dichloroethene	ND		0.0044	0.0014	mg/Kg	☼	07/16/17 09:00	07/16/17 14:59	1
1,2-Dichlorobenzene	ND		0.0044	0.0035	mg/Kg	☼	07/16/17 09:00	07/16/17 14:59	1
1,3-Dichlorobenzene	ND		0.0044	0.0014	mg/Kg	☼	07/16/17 09:00	07/16/17 14:59	1
1,4-Dichlorobenzene	ND		0.0044	0.00090	mg/Kg	☼	07/16/17 09:00	07/16/17 14:59	1
1,1-Dichloroethane	ND		0.0044	0.0016	mg/Kg	☼	07/16/17 09:00	07/16/17 14:59	1
1,2-Dichloroethane	ND		0.0044	0.0013	mg/Kg	☼	07/16/17 09:00	07/16/17 14:59	1
1,1-Dichloroethene	ND		0.0044	0.0025	mg/Kg	☼	07/16/17 09:00	07/16/17 14:59	1
Ethylbenzene	ND		0.0044	0.0019	mg/Kg	☼	07/16/17 09:00	07/16/17 14:59	1
Methylene Chloride	ND		0.0044	0.0021	mg/Kg	☼	07/16/17 09:00	07/16/17 14:59	1
Methyl tert-butyl ether	ND		0.0044	0.0032	mg/Kg	☼	07/16/17 09:00	07/16/17 14:59	1
n-Butylbenzene	ND		0.0044	0.0033	mg/Kg	☼	07/16/17 09:00	07/16/17 14:59	1
N-Propylbenzene	ND		0.0044	0.0019	mg/Kg	☼	07/16/17 09:00	07/16/17 14:59	1
sec-Butylbenzene	ND		0.0044	0.0021	mg/Kg	☼	07/16/17 09:00	07/16/17 14:59	1
tert-Butylbenzene	ND		0.0044	0.0016	mg/Kg	☼	07/16/17 09:00	07/16/17 14:59	1
Tetrachloroethene	ND		0.0044	0.0018	mg/Kg	☼	07/16/17 09:00	07/16/17 14:59	1
Toluene	ND		0.0044	0.0015	mg/Kg	☼	07/16/17 09:00	07/16/17 14:59	1
trans-1,2-Dichloroethene	ND		0.0044	0.0022	mg/Kg	☼	07/16/17 09:00	07/16/17 14:59	1
1,1,1-Trichloroethane	ND		0.0044	0.0022	mg/Kg	☼	07/16/17 09:00	07/16/17 14:59	1
Trichloroethene	ND		0.0044	0.0013	mg/Kg	☼	07/16/17 09:00	07/16/17 14:59	1
1,2,4-Trimethylbenzene	ND		0.0044	0.0012	mg/Kg	☼	07/16/17 09:00	07/16/17 14:59	1
1,3,5-Trimethylbenzene	ND		0.0044	0.0015	mg/Kg	☼	07/16/17 09:00	07/16/17 14:59	1
Vinyl chloride	ND		0.0044	0.0032	mg/Kg	☼	07/16/17 09:00	07/16/17 14:59	1

Client Sample ID: W3, S4, B 71117 — Lab Sample ID: 180-68096-31

Date Collected: 07/11/17 14:50 — **Matrix: Solid**
Date Received: 07/12/17 09:10 — **Percent Solids: 91.9**

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	ND		0.0088	0.0038	mg/Kg	☼	07/16/17 09:00	07/16/17 14:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*84*		*63 - 120*	*07/16/17 09:00*	*07/16/17 14:59*	*1*
Dibromofluoromethane (Surr)	*89*		*68 - 121*	*07/16/17 09:00*	*07/16/17 14:59*	*1*
1,2-Dichloroethane-d4 (Surr)	*79*		*52 - 124*	*07/16/17 09:00*	*07/16/17 14:59*	*1*
Toluene-d8 (Surr)	*121*		*72 - 127*	*07/16/17 09:00*	*07/16/17 14:59*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**8.1**		0.1	0.1	%			07/12/17 16:42	1
Percent Solids	**91.9**		0.1	0.1	%			07/12/17 16:42	1

Client Sample ID: W3, S4, C 71117 — Lab Sample ID: 180-68096-32

Date Collected: 07/11/17 14:55 — **Matrix: Solid**
Date Received: 07/12/17 09:10 — **Percent Solids: 90.4**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.074	0.025	mg/Kg	☼	07/13/17 03:37	07/17/17 12:43	10
Acenaphthylene	**0.15**		0.074	0.025	mg/Kg	☼	07/13/17 03:37	07/17/17 12:43	10
Anthracene	**0.19**		0.074	0.027	mg/Kg	☼	07/13/17 03:37	07/17/17 12:43	10
Benzo[a]anthracene	**0.74**		0.074	0.029	mg/Kg	☼	07/13/17 03:37	07/17/17 12:43	10
Benzo[a]pyrene	**0.73**		0.074	0.031	mg/Kg	☼	07/13/17 03:37	07/17/17 12:43	10
Benzo[b]fluoranthene	**0.96**		0.074	0.032	mg/Kg	☼	07/13/17 03:37	07/17/17 12:43	10
Benzo[g,h,i]perylene	**0.75**		0.074	0.032	mg/Kg	☼	07/13/17 03:37	07/17/17 12:43	10
Benzo[k]fluoranthene	**0.31**		0.074	0.026	mg/Kg	☼	07/13/17 03:37	07/17/17 12:43	10
Chrysene	**0.70**		0.074	0.029	mg/Kg	☼	07/13/17 03:37	07/17/17 12:43	10
Dibenz(a,h)anthracene	**0.14**		0.074	0.031	mg/Kg	☼	07/13/17 03:37	07/17/17 12:43	10
Dibenzofuran	**0.068**	**J**	0.37	0.030	mg/Kg	☼	07/13/17 03:37	07/17/17 12:43	10
1,4-Dioxane	ND		0.74	0.056	mg/Kg	☼	07/13/17 03:37	07/17/17 12:43	10
Fluoranthene	**1.0**		0.074	0.029	mg/Kg	☼	07/13/17 03:37	07/17/17 12:43	10
Fluorene	**0.041**	**J**	0.074	0.026	mg/Kg	☼	07/13/17 03:37	07/17/17 12:43	10
Hexachlorobenzene	ND		0.074	0.030	mg/Kg	☼	07/13/17 03:37	07/17/17 12:43	10
Indeno[1,2,3-cd]pyrene	**0.66**		0.074	0.029	mg/Kg	☼	07/13/17 03:37	07/17/17 12:43	10
2-Methylphenol	ND		0.37	0.033	mg/Kg	☼	07/13/17 03:37	07/17/17 12:43	10
Methylphenol, 3 & 4	ND		0.37	0.033	mg/Kg	☼	07/13/17 03:37	07/17/17 12:43	10
Naphthalene	**0.23**		0.074	0.027	mg/Kg	☼	07/13/17 03:37	07/17/17 12:43	10
Pentachlorophenol	ND		1.9	0.70	mg/Kg	☼	07/13/17 03:37	07/17/17 12:43	10
Phenanthrene	**0.57**		0.074	0.031	mg/Kg	☼	07/13/17 03:37	07/17/17 12:43	10
Phenol	ND		0.37	0.050	mg/Kg	☼	07/13/17 03:37	07/17/17 12:43	10
Pyrene	**1.2**		0.074	0.033	mg/Kg	☼	07/13/17 03:37	07/17/17 12:43	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*60*		*42 - 100*	*07/13/17 03:37*	*07/17/17 12:43*	*10*
2-Fluorophenol (Surr)	*58*		*21 - 107*	*07/13/17 03:37*	*07/17/17 12:43*	*10*
Nitrobenzene-d5 (Surr)	*64*		*35 - 109*	*07/13/17 03:37*	*07/17/17 12:43*	*10*
Phenol-d5 (Surr)	*53*		*29 - 105*	*07/13/17 03:37*	*07/17/17 12:43*	*10*
Terphenyl-d14 (Surr)	*63*		*36 - 113*	*07/13/17 03:37*	*07/17/17 12:43*	*10*
2,4,6-Tribromophenol (Surr)	*55*		*20 - 134*	*07/13/17 03:37*	*07/17/17 12:43*	*10*

Client Sample ID: W3, S4, C 71117

Lab Sample ID: 180-68096-32
Date Collected: 07/11/17 14:55
Matrix: Solid
Date Received: 07/12/17 09:10
Percent Solids: 90.4

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.018	0.0096	mg/Kg	☼	07/13/17 03:34	07/14/17 18:29	1
PCB-1221	ND		0.018	0.0094	mg/Kg	☼	07/13/17 03:34	07/14/17 18:29	1
PCB-1232	ND		0.018	0.0072	mg/Kg	☼	07/13/17 03:34	07/14/17 18:29	1
PCB-1242	ND		0.018	0.014	mg/Kg	☼	07/13/17 03:34	07/14/17 18:29	1
PCB-1248	**0.93**		0.018	0.0086	mg/Kg	☼	07/13/17 03:34	07/14/17 18:29	1
PCB-1254	**0.61**		0.018	0.0079	mg/Kg	☼	07/13/17 03:34	07/14/17 18:29	1
PCB-1260	**0.19**		0.018	0.012	mg/Kg	☼	07/13/17 03:34	07/14/17 18:29	1
PCB-1262	ND		0.018	0.013	mg/Kg	☼	07/13/17 03:34	07/14/17 18:29	1
PCB-1268	ND		0.018	0.0055	mg/Kg	☼	07/13/17 03:34	07/14/17 18:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*76*		*23 - 150*	*07/13/17 03:34*	*07/14/17 18:29*	*1*
DCB Decachlorobiphenyl (Surr)	*85*		*23 - 150*	*07/13/17 03:34*	*07/14/17 18:29*	*1*
Tetrachloro-m-xylene (Surr)	*82*		*27 - 138*	*07/13/17 03:34*	*07/14/17 18:29*	*1*
Tetrachloro-m-xylene (Surr)	*73*		*27 - 138*	*07/13/17 03:34*	*07/14/17 18:29*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**5.8**		1.1	0.48	mg/Kg	☼	07/13/17 09:05	07/14/17 14:13	1
Barium	**79**		22	5.9	mg/Kg	☼	07/13/17 09:05	07/14/17 14:13	1
Beryllium	**0.27**	**J**	0.44	0.11	mg/Kg	☼	07/13/17 09:05	07/14/17 14:13	1
Cadmium	**0.14**	**J**	0.55	0.12	mg/Kg	☼	07/13/17 09:05	07/14/17 14:13	1
Chromium	**8.2**		0.55	0.14	mg/Kg	☼	07/13/17 09:05	07/14/17 14:13	1
Copper	**37**		2.7	0.84	mg/Kg	☼	07/13/17 09:05	07/14/17 14:13	1
Lead	**53**		1.1	0.36	mg/Kg	☼	07/13/17 09:05	07/14/17 14:13	1
Manganese	**400**		1.6	0.44	mg/Kg	☼	07/13/17 09:05	07/14/17 14:13	1
Nickel	**15**		4.4	0.99	mg/Kg	☼	07/13/17 09:05	07/14/17 14:13	1
Selenium	ND		1.1	0.43	mg/Kg	☼	07/13/17 09:05	07/14/17 14:13	1
Silver	ND		0.55	0.18	mg/Kg	☼	07/13/17 09:05	07/14/17 14:13	1
Zinc	**78**		2.2	1.1	mg/Kg	☼	07/13/17 09:05	07/14/17 14:13	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.77**		0.032	0.0072	mg/Kg	☼	07/14/17 11:17	07/17/17 09:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.6**		0.1	0.1	%			07/12/17 16:42	1
Percent Solids	**90.4**		0.1	0.1	%			07/12/17 16:42	1
Cyanide, Total	ND		0.54	0.17	mg/Kg	☼	07/13/17 12:02	07/13/17 16:21	1

Client Sample ID: DUP-5

Lab Sample ID: 180-68096-33
Date Collected: 07/11/17 00:00
Matrix: Solid
Date Received: 07/12/17 09:10
Percent Solids: 90.1

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.020	0.0032	mg/Kg	☼	07/16/17 09:00	07/16/17 15:22	1
Benzene	ND		0.0050	0.0020	mg/Kg	☼	07/16/17 09:00	07/16/17 15:22	1
2-Butanone (MEK)	ND		0.0050	0.0029	mg/Kg	☼	07/16/17 09:00	07/16/17 15:22	1
Carbon tetrachloride	ND		0.0050	0.0033	mg/Kg	☼	07/16/17 09:00	07/16/17 15:22	1

Client Sample ID: DUP-5

Lab Sample ID: 180-68096-33
Date Collected: 07/11/17 00:00
Matrix: Solid
Date Received: 07/12/17 09:10
Percent Solids: 90.1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	ND		0.0050	0.0016	mg/Kg	☼	07/16/17 09:00	07/16/17 15:22	1
Chloroform	ND		0.0050	0.0021	mg/Kg	☼	07/16/17 09:00	07/16/17 15:22	1
cis-1,2-Dichloroethene	ND		0.0050	0.0016	mg/Kg	☼	07/16/17 09:00	07/16/17 15:22	1
1,2-Dichlorobenzene	ND		0.0050	0.0041	mg/Kg	☼	07/16/17 09:00	07/16/17 15:22	1
1,3-Dichlorobenzene	ND		0.0050	0.0016	mg/Kg	☼	07/16/17 09:00	07/16/17 15:22	1
1,4-Dichlorobenzene	ND		0.0050	0.0010	mg/Kg	☼	07/16/17 09:00	07/16/17 15:22	1
1,1-Dichloroethane	ND		0.0050	0.0018	mg/Kg	☼	07/16/17 09:00	07/16/17 15:22	1
1,2-Dichloroethane	ND		0.0050	0.0015	mg/Kg	☼	07/16/17 09:00	07/16/17 15:22	1
1,1-Dichloroethene	ND		0.0050	0.0029	mg/Kg	☼	07/16/17 09:00	07/16/17 15:22	1
Ethylbenzene	ND		0.0050	0.0022	mg/Kg	☼	07/16/17 09:00	07/16/17 15:22	1
Methylene Chloride	ND		0.0050	0.0024	mg/Kg	☼	07/16/17 09:00	07/16/17 15:22	1
Methyl tert-butyl ether	ND		0.0050	0.0037	mg/Kg	☼	07/16/17 09:00	07/16/17 15:22	1
n-Butylbenzene	ND		0.0050	0.0038	mg/Kg	☼	07/16/17 09:00	07/16/17 15:22	1
N-Propylbenzene	ND		0.0050	0.0021	mg/Kg	☼	07/16/17 09:00	07/16/17 15:22	1
sec-Butylbenzene	ND		0.0050	0.0025	mg/Kg	☼	07/16/17 09:00	07/16/17 15:22	1
tert-Butylbenzene	ND		0.0050	0.0018	mg/Kg	☼	07/16/17 09:00	07/16/17 15:22	1
Tetrachloroethene	ND		0.0050	0.0020	mg/Kg	☼	07/16/17 09:00	07/16/17 15:22	1
Toluene	ND		0.0050	0.0017	mg/Kg	☼	07/16/17 09:00	07/16/17 15:22	1
trans-1,2-Dichloroethene	ND		0.0050	0.0026	mg/Kg	☼	07/16/17 09:00	07/16/17 15:22	1
1,1,1-Trichloroethane	ND		0.0050	0.0025	mg/Kg	☼	07/16/17 09:00	07/16/17 15:22	1
Trichloroethene	ND		0.0050	0.0015	mg/Kg	☼	07/16/17 09:00	07/16/17 15:22	1
1,2,4-Trimethylbenzene	ND		0.0050	0.0014	mg/Kg	☼	07/16/17 09:00	07/16/17 15:22	1
1,3,5-Trimethylbenzene	ND		0.0050	0.0017	mg/Kg	☼	07/16/17 09:00	07/16/17 15:22	1
Vinyl chloride	ND		0.0050	0.0037	mg/Kg	☼	07/16/17 09:00	07/16/17 15:22	1
Xylenes, Total	ND		0.010	0.0043	mg/Kg	☼	07/16/17 09:00	07/16/17 15:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*85*		*63 - 120*	*07/16/17 09:00*	*07/16/17 15:22*	*1*
Dibromofluoromethane (Surr)	*90*		*68 - 121*	*07/16/17 09:00*	*07/16/17 15:22*	*1*
1,2-Dichloroethane-d4 (Surr)	*83*		*52 - 124*	*07/16/17 09:00*	*07/16/17 15:22*	*1*
Toluene-d8 (Surr)	*121*		*72 - 127*	*07/16/17 09:00*	*07/16/17 15:22*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.9**		0.1	0.1	%			07/12/17 16:42	1
Percent Solids	**90.1**		0.1	0.1	%			07/12/17 16:42	1

Client Sample ID: W3, S5, A 71117

Lab Sample ID: 180-68096-34
Date Collected: 07/11/17 15:15
Matrix: Solid
Date Received: 07/12/17 09:10
Percent Solids: 91.1

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.021	0.0032	mg/Kg	☼	07/13/17 10:30	07/14/17 17:23	1
Benzene	ND		0.0052	0.0020	mg/Kg	☼	07/13/17 10:30	07/14/17 17:23	1
2-Butanone (MEK)	ND		0.0052	0.0030	mg/Kg	☼	07/13/17 10:30	07/14/17 17:23	1
Carbon tetrachloride	ND		0.0052	0.0034	mg/Kg	☼	07/13/17 10:30	07/14/17 17:23	1
Chlorobenzene	ND		0.0052	0.0016	mg/Kg	☼	07/13/17 10:30	07/14/17 17:23	1
Chloroform	ND		0.0052	0.0022	mg/Kg	☼	07/13/17 10:30	07/14/17 17:23	1
cis-1,2-Dichloroethene	ND		0.0052	0.0016	mg/Kg	☼	07/13/17 10:30	07/14/17 17:23	1

Client Sample ID: W3, S5, A 71117 — Lab Sample ID: 180-68096-34

Date Collected: 07/11/17 15:15 — **Matrix: Solid**
Date Received: 07/12/17 09:10 — **Percent Solids: 91.1**

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		0.0052	0.0041	mg/Kg	☼	07/13/17 10:30	07/14/17 17:23	1
1,3-Dichlorobenzene	ND		0.0052	0.0016	mg/Kg	☼	07/13/17 10:30	07/14/17 17:23	1
1,4-Dichlorobenzene	ND		0.0052	0.0011	mg/Kg	☼	07/13/17 10:30	07/14/17 17:23	1
1,1-Dichloroethane	ND		0.0052	0.0019	mg/Kg	☼	07/13/17 10:30	07/14/17 17:23	1
1,2-Dichloroethane	ND		0.0052	0.0015	mg/Kg	☼	07/13/17 10:30	07/14/17 17:23	1
1,1-Dichloroethene	ND		0.0052	0.0029	mg/Kg	☼	07/13/17 10:30	07/14/17 17:23	1
Ethylbenzene	ND		0.0052	0.0022	mg/Kg	☼	07/13/17 10:30	07/14/17 17:23	1
Methylene Chloride	ND		0.0052	0.0024	mg/Kg	☼	07/13/17 10:30	07/14/17 17:23	1
Methyl tert-butyl ether	ND		0.0052	0.0038	mg/Kg	☼	07/13/17 10:30	07/14/17 17:23	1
n-Butylbenzene	ND		0.0052	0.0039	mg/Kg	☼	07/13/17 10:30	07/14/17 17:23	1
N-Propylbenzene	ND		0.0052	0.0022	mg/Kg	☼	07/13/17 10:30	07/14/17 17:23	1
sec-Butylbenzene	ND		0.0052	0.0025	mg/Kg	☼	07/13/17 10:30	07/14/17 17:23	1
tert-Butylbenzene	ND		0.0052	0.0019	mg/Kg	☼	07/13/17 10:30	07/14/17 17:23	1
Tetrachloroethene	ND		0.0052	0.0021	mg/Kg	☼	07/13/17 10:30	07/14/17 17:23	1
Toluene	ND		0.0052	0.0017	mg/Kg	☼	07/13/17 10:30	07/14/17 17:23	1
trans-1,2-Dichloroethene	ND		0.0052	0.0026	mg/Kg	☼	07/13/17 10:30	07/14/17 17:23	1
1,1,1-Trichloroethane	ND		0.0052	0.0026	mg/Kg	☼	07/13/17 10:30	07/14/17 17:23	1
Trichloroethene	ND		0.0052	0.0015	mg/Kg	☼	07/13/17 10:30	07/14/17 17:23	1
1,2,4-Trimethylbenzene	ND		0.0052	0.0014	mg/Kg	☼	07/13/17 10:30	07/14/17 17:23	1
1,3,5-Trimethylbenzene	ND		0.0052	0.0018	mg/Kg	☼	07/13/17 10:30	07/14/17 17:23	1
Vinyl chloride	ND		0.0052	0.0038	mg/Kg	☼	07/13/17 10:30	07/14/17 17:23	1
Xylenes, Total	ND		0.010	0.0044	mg/Kg	☼	07/13/17 10:30	07/14/17 17:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*81*		*63 - 120*	*07/13/17 10:30*	*07/14/17 17:23*	*1*
Dibromofluoromethane (Surr)	*85*		*68 - 121*	*07/13/17 10:30*	*07/14/17 17:23*	*1*
1,2-Dichloroethane-d4 (Surr)	*78*		*52 - 124*	*07/13/17 10:30*	*07/14/17 17:23*	*1*
Toluene-d8 (Surr)	*114*		*72 - 127*	*07/13/17 10:30*	*07/14/17 17:23*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**8.9**		0.1	0.1	%			07/12/17 16:42	1
Percent Solids	**91.1**		0.1	0.1	%			07/12/17 16:42	1

Client Sample ID: W3, S5, B 71117 — Lab Sample ID: 180-68096-35

Date Collected: 07/11/17 15:20 — **Matrix: Solid**
Date Received: 07/12/17 09:10 — **Percent Solids: 92.1**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.025	0.0039	mg/Kg	☼	07/13/17 10:30	07/14/17 17:00	1
Benzene	ND		0.0061	0.0024	mg/Kg	☼	07/13/17 10:30	07/14/17 17:00	1
2-Butanone (MEK)	ND		0.0061	0.0036	mg/Kg	☼	07/13/17 10:30	07/14/17 17:00	1
Carbon tetrachloride	ND		0.0061	0.0041	mg/Kg	☼	07/13/17 10:30	07/14/17 17:00	1
Chlorobenzene	ND		0.0061	0.0019	mg/Kg	☼	07/13/17 10:30	07/14/17 17:00	1
Chloroform	ND		0.0061	0.0026	mg/Kg	☼	07/13/17 10:30	07/14/17 17:00	1
cis-1,2-Dichloroethene	ND		0.0061	0.0019	mg/Kg	☼	07/13/17 10:30	07/14/17 17:00	1
1,2-Dichlorobenzene	ND		0.0061	0.0049	mg/Kg	☼	07/13/17 10:30	07/14/17 17:00	1
1,3-Dichlorobenzene	ND		0.0061	0.0020	mg/Kg	☼	07/13/17 10:30	07/14/17 17:00	1
1,4-Dichlorobenzene	ND		0.0061	0.0013	mg/Kg	☼	07/13/17 10:30	07/14/17 17:00	1

Client Sample ID: W3, S5, B 71117

Lab Sample ID: 180-68096-35
Date Collected: 07/11/17 15:20
Matrix: Solid
Date Received: 07/12/17 09:10
Percent Solids: 92.1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND		0.0061	0.0022	mg/Kg	☼	07/13/17 10:30	07/14/17 17:00	1
1,2-Dichloroethane	ND		0.0061	0.0018	mg/Kg	☼	07/13/17 10:30	07/14/17 17:00	1
1,1-Dichloroethene	ND		0.0061	0.0035	mg/Kg	☼	07/13/17 10:30	07/14/17 17:00	1
Ethylbenzene	ND		0.0061	0.0026	mg/Kg	☼	07/13/17 10:30	07/14/17 17:00	1
Methylene Chloride	ND		0.0061	0.0029	mg/Kg	☼	07/13/17 10:30	07/14/17 17:00	1
Methyl tert-butyl ether	ND		0.0061	0.0045	mg/Kg	☼	07/13/17 10:30	07/14/17 17:00	1
n-Butylbenzene	ND		0.0061	0.0047	mg/Kg	☼	07/13/17 10:30	07/14/17 17:00	1
N-Propylbenzene	ND		0.0061	0.0026	mg/Kg	☼	07/13/17 10:30	07/14/17 17:00	1
sec-Butylbenzene	ND		0.0061	0.0030	mg/Kg	☼	07/13/17 10:30	07/14/17 17:00	1
tert-Butylbenzene	ND		0.0061	0.0022	mg/Kg	☼	07/13/17 10:30	07/14/17 17:00	1
Tetrachloroethene	ND		0.0061	0.0025	mg/Kg	☼	07/13/17 10:30	07/14/17 17:00	1
Toluene	ND		0.0061	0.0021	mg/Kg	☼	07/13/17 10:30	07/14/17 17:00	1
trans-1,2-Dichloroethene	ND		0.0061	0.0031	mg/Kg	☼	07/13/17 10:30	07/14/17 17:00	1
1,1,1-Trichloroethane	ND		0.0061	0.0031	mg/Kg	☼	07/13/17 10:30	07/14/17 17:00	1
Trichloroethene	ND		0.0061	0.0018	mg/Kg	☼	07/13/17 10:30	07/14/17 17:00	1
1,2,4-Trimethylbenzene	ND		0.0061	0.0017	mg/Kg	☼	07/13/17 10:30	07/14/17 17:00	1
1,3,5-Trimethylbenzene	ND		0.0061	0.0021	mg/Kg	☼	07/13/17 10:30	07/14/17 17:00	1
Vinyl chloride	ND		0.0061	0.0045	mg/Kg	☼	07/13/17 10:30	07/14/17 17:00	1
Xylenes, Total	ND		0.012	0.0053	mg/Kg	☼	07/13/17 10:30	07/14/17 17:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*83*		*63 - 120*	*07/13/17 10:30*	*07/14/17 17:00*	*1*
Dibromofluoromethane (Surr)	*85*		*68 - 121*	*07/13/17 10:30*	*07/14/17 17:00*	*1*
1,2-Dichloroethane-d4 (Surr)	*78*		*52 - 124*	*07/13/17 10:30*	*07/14/17 17:00*	*1*
Toluene-d8 (Surr)	*112*		*72 - 127*	*07/13/17 10:30*	*07/14/17 17:00*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**7.9**		0.1	0.1	%			07/12/17 16:42	1
Percent Solids	**92.1**		0.1	0.1	%			07/12/17 16:42	1

Client Sample ID: W3, S5, C 71117

Lab Sample ID: 180-68096-36
Date Collected: 07/11/17 15:25
Matrix: Solid
Date Received: 07/12/17 09:10
Percent Solids: 92.6

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.072	0.024	mg/Kg	☼	07/13/17 03:37	07/17/17 13:11	10
Acenaphthylene	**0.19**		0.072	0.024	mg/Kg	☼	07/13/17 03:37	07/17/17 13:11	10
Anthracene	**0.26**		0.072	0.027	mg/Kg	☼	07/13/17 03:37	07/17/17 13:11	10
Benzo[a]anthracene	**0.96**		0.072	0.029	mg/Kg	☼	07/13/17 03:37	07/17/17 13:11	10
Benzo[a]pyrene	**0.90**		0.072	0.030	mg/Kg	☼	07/13/17 03:37	07/17/17 13:11	10
Benzo[b]fluoranthene	**1.1**		0.072	0.031	mg/Kg	☼	07/13/17 03:37	07/17/17 13:11	10
Benzo[g,h,i]perylene	**0.97**		0.072	0.031	mg/Kg	☼	07/13/17 03:37	07/17/17 13:11	10
Benzo[k]fluoranthene	**0.47**		0.072	0.025	mg/Kg	☼	07/13/17 03:37	07/17/17 13:11	10
Chrysene	**0.88**		0.072	0.028	mg/Kg	☼	07/13/17 03:37	07/17/17 13:11	10
Dibenz(a,h)anthracene	**0.24**		0.072	0.030	mg/Kg	☼	07/13/17 03:37	07/17/17 13:11	10
Dibenzofuran	**0.072**	**J**	0.36	0.029	mg/Kg	☼	07/13/17 03:37	07/17/17 13:11	10
1,4-Dioxane	ND		0.72	0.054	mg/Kg	☼	07/13/17 03:37	07/17/17 13:11	10
Fluoranthene	**1.4**		0.072	0.028	mg/Kg	☼	07/13/17 03:37	07/17/17 13:11	10

Client Sample ID: W3, S5, C 71117 **Lab Sample ID: 180-68096-36**
Date Collected: 07/11/17 15:25 **Matrix: Solid**
Date Received: 07/12/17 09:10 **Percent Solids: 92.6**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	**0.042**	**J**	0.072	0.026	mg/Kg	☼	07/13/17 03:37	07/17/17 13:11	10
Hexachlorobenzene	ND		0.072	0.029	mg/Kg	☼	07/13/17 03:37	07/17/17 13:11	10
Indeno[1,2,3-cd]pyrene	**0.86**		0.072	0.028	mg/Kg	☼	07/13/17 03:37	07/17/17 13:11	10
2-Methylphenol	ND		0.36	0.032	mg/Kg	☼	07/13/17 03:37	07/17/17 13:11	10
Methylphenol, 3 & 4	ND		0.36	0.032	mg/Kg	☼	07/13/17 03:37	07/17/17 13:11	10
Naphthalene	**0.23**		0.072	0.026	mg/Kg	☼	07/13/17 03:37	07/17/17 13:11	10
Pentachlorophenol	ND		1.8	0.68	mg/Kg	☼	07/13/17 03:37	07/17/17 13:11	10
Phenanthrene	**0.82**		0.072	0.030	mg/Kg	☼	07/13/17 03:37	07/17/17 13:11	10
Phenol	ND		0.36	0.049	mg/Kg	☼	07/13/17 03:37	07/17/17 13:11	10
Pyrene	**1.5**		0.072	0.032	mg/Kg	☼	07/13/17 03:37	07/17/17 13:11	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*57*		*42 - 100*	*07/13/17 03:37*	*07/17/17 13:11*	*10*
2-Fluorophenol (Surr)	*49*		*21 - 107*	*07/13/17 03:37*	*07/17/17 13:11*	*10*
Nitrobenzene-d5 (Surr)	*63*		*35 - 109*	*07/13/17 03:37*	*07/17/17 13:11*	*10*
Phenol-d5 (Surr)	*48*		*29 - 105*	*07/13/17 03:37*	*07/17/17 13:11*	*10*
Terphenyl-d14 (Surr)	*68*		*36 - 113*	*07/13/17 03:37*	*07/17/17 13:11*	*10*
2,4,6-Tribromophenol (Surr)	*52*		*20 - 134*	*07/13/17 03:37*	*07/17/17 13:11*	*10*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.018	0.0093	mg/Kg	☼	07/13/17 03:34	07/14/17 18:49	1
PCB-1221	ND		0.018	0.0091	mg/Kg	☼	07/13/17 03:34	07/14/17 18:49	1
PCB-1232	ND		0.018	0.0069	mg/Kg	☼	07/13/17 03:34	07/14/17 18:49	1
PCB-1242	ND		0.018	0.014	mg/Kg	☼	07/13/17 03:34	07/14/17 18:49	1
PCB-1248	**0.93**		0.018	0.0084	mg/Kg	☼	07/13/17 03:34	07/14/17 18:49	1
PCB-1254	**0.61**		0.018	0.0077	mg/Kg	☼	07/13/17 03:34	07/14/17 18:49	1
PCB-1260	**0.18**		0.018	0.012	mg/Kg	☼	07/13/17 03:34	07/14/17 18:49	1
PCB-1262	ND		0.018	0.013	mg/Kg	☼	07/13/17 03:34	07/14/17 18:49	1
PCB-1268	ND		0.018	0.0053	mg/Kg	☼	07/13/17 03:34	07/14/17 18:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*73*		*23 - 150*	*07/13/17 03:34*	*07/14/17 18:49*	*1*
DCB Decachlorobiphenyl (Surr)	*84*		*23 - 150*	*07/13/17 03:34*	*07/14/17 18:49*	*1*
Tetrachloro-m-xylene (Surr)	*81*		*27 - 138*	*07/13/17 03:34*	*07/14/17 18:49*	*1*
Tetrachloro-m-xylene (Surr)	*73*		*27 - 138*	*07/13/17 03:34*	*07/14/17 18:49*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**6.2**		1.0	0.46	mg/Kg	☼	07/13/17 09:05	07/14/17 14:19	1
Barium	**87**		21	5.6	mg/Kg	☼	07/13/17 09:05	07/14/17 14:19	1
Beryllium	**0.29**	**J**	0.42	0.11	mg/Kg	☼	07/13/17 09:05	07/14/17 14:19	1
Cadmium	**0.19**	**J**	0.52	0.12	mg/Kg	☼	07/13/17 09:05	07/14/17 14:19	1
Chromium	**7.8**		0.52	0.14	mg/Kg	☼	07/13/17 09:05	07/14/17 14:19	1
Copper	**30**		2.6	0.81	mg/Kg	☼	07/13/17 09:05	07/14/17 14:19	1
Lead	**46**		1.0	0.34	mg/Kg	☼	07/13/17 09:05	07/14/17 14:19	1
Manganese	**290**		1.6	0.43	mg/Kg	☼	07/13/17 09:05	07/14/17 14:19	1
Nickel	**16**		4.2	0.94	mg/Kg	☼	07/13/17 09:05	07/14/17 14:19	1
Selenium	ND		1.0	0.42	mg/Kg	☼	07/13/17 09:05	07/14/17 14:19	1
Silver	ND		0.52	0.17	mg/Kg	☼	07/13/17 09:05	07/14/17 14:19	1

Client Sample ID: W3, S5, C 71117

Date Collected: 07/11/17 15:25
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-36

Matrix: Solid
Percent Solids: 92.6

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	76		2.1	1.1	mg/Kg	☼	07/13/17 09:05	07/14/17 14:19	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.49		0.035	0.0078	mg/Kg	☼	07/14/17 11:17	07/17/17 09:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	7.4		0.1	0.1	%			07/12/17 16:42	1
Percent Solids	92.6		0.1	0.1	%			07/12/17 16:42	1
Cyanide, Total	ND		0.54	0.17	mg/Kg	☼	07/13/17 12:02	07/13/17 16:22	1

Client Sample ID: TRIP BLANK 1

Date Collected: 07/11/17 00:00
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-37

Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	3.5	J	5.0	3.1	ug/L			07/17/17 08:58	1
Benzene	ND		1.0	0.18	ug/L			07/17/17 08:58	1
2-Butanone (MEK)	ND		5.0	2.6	ug/L			07/17/17 08:58	1
Carbon tetrachloride	ND		1.0	0.56	ug/L			07/17/17 08:58	1
Chlorobenzene	ND		1.0	0.15	ug/L			07/17/17 08:58	1
Chloroform	ND		1.0	0.27	ug/L			07/17/17 08:58	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			07/17/17 08:58	1
1,2-Dichlorobenzene	ND		1.0	0.23	ug/L			07/17/17 08:58	1
1,3-Dichlorobenzene	ND		1.0	0.21	ug/L			07/17/17 08:58	1
1,4-Dichlorobenzene	ND		1.0	0.24	ug/L			07/17/17 08:58	1
1,1-Dichloroethane	ND		1.0	0.34	ug/L			07/17/17 08:58	1
1,2-Dichloroethane	ND		1.0	0.24	ug/L			07/17/17 08:58	1
1,1-Dichloroethene	ND		1.0	0.32	ug/L			07/17/17 08:58	1
Ethylbenzene	ND		1.0	0.25	ug/L			07/17/17 08:58	1
Methylene Chloride	ND		1.0	0.94	ug/L			07/17/17 08:58	1
Methyl tert-butyl ether	ND		1.0	0.20	ug/L			07/17/17 08:58	1
n-Butylbenzene	ND	*	1.0	0.22	ug/L			07/17/17 08:58	1
N-Propylbenzene	ND		1.0	0.20	ug/L			07/17/17 08:58	1
sec-Butylbenzene	ND		1.0	0.22	ug/L			07/17/17 08:58	1
tert-Butylbenzene	ND		1.0	0.17	ug/L			07/17/17 08:58	1
Tetrachloroethene	ND		1.0	0.24	ug/L			07/17/17 08:58	1
Toluene	ND		1.0	0.16	ug/L			07/17/17 08:58	1
trans-1,2-Dichloroethene	ND		1.0	0.20	ug/L			07/17/17 08:58	1
1,1,1-Trichloroethane	ND		1.0	0.27	ug/L			07/17/17 08:58	1
Trichloroethene	ND		1.0	0.20	ug/L			07/17/17 08:58	1
1,2,4-Trimethylbenzene	ND		1.0	0.18	ug/L			07/17/17 08:58	1
1,3,5-Trimethylbenzene	ND		1.0	0.17	ug/L			07/17/17 08:58	1
Vinyl chloride	ND		1.0	0.17	ug/L			07/17/17 08:58	1
Xylenes, Total	ND		2.0	0.27	ug/L			07/17/17 08:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*72 - 120*		*07/17/17 08:58*	*1*

Client Sample ID: TRIP BLANK 1 — Lab Sample ID: 180-68096-37

Date Collected: 07/11/17 00:00 — **Matrix: Water**
Date Received: 07/12/17 09:10

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	*101*		*77 - 127*		*07/17/17 08:58*	*1*
1,2-Dichloroethane-d4 (Surr)	*88*		*72 - 134*		*07/17/17 08:58*	*1*
Toluene-d8 (Surr)	*84*		*80 - 120*		*07/17/17 08:58*	*1*

Client Sample ID: TRIP BLANK 2 — Lab Sample ID: 180-68096-38

Date Collected: 07/11/17 00:00 — **Matrix: Water**
Date Received: 07/12/17 09:10

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		5.0	3.1	ug/L			07/17/17 09:21	1
Benzene	ND		1.0	0.18	ug/L			07/17/17 09:21	1
2-Butanone (MEK)	ND		5.0	2.6	ug/L			07/17/17 09:21	1
Carbon tetrachloride	ND		1.0	0.56	ug/L			07/17/17 09:21	1
Chlorobenzene	ND		1.0	0.15	ug/L			07/17/17 09:21	1
Chloroform	ND		1.0	0.27	ug/L			07/17/17 09:21	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			07/17/17 09:21	1
1,2-Dichlorobenzene	ND		1.0	0.23	ug/L			07/17/17 09:21	1
1,3-Dichlorobenzene	ND		1.0	0.21	ug/L			07/17/17 09:21	1
1,4-Dichlorobenzene	ND		1.0	0.24	ug/L			07/17/17 09:21	1
1,1-Dichloroethane	ND		1.0	0.34	ug/L			07/17/17 09:21	1
1,2-Dichloroethane	ND		1.0	0.24	ug/L			07/17/17 09:21	1
1,1-Dichloroethene	ND		1.0	0.32	ug/L			07/17/17 09:21	1
Ethylbenzene	ND		1.0	0.25	ug/L			07/17/17 09:21	1
Methylene Chloride	ND		1.0	0.94	ug/L			07/17/17 09:21	1
Methyl tert-butyl ether	ND		1.0	0.20	ug/L			07/17/17 09:21	1
n-Butylbenzene	ND	*	1.0	0.22	ug/L			07/17/17 09:21	1
N-Propylbenzene	ND		1.0	0.20	ug/L			07/17/17 09:21	1
sec-Butylbenzene	ND		1.0	0.22	ug/L			07/17/17 09:21	1
tert-Butylbenzene	ND		1.0	0.17	ug/L			07/17/17 09:21	1
Tetrachloroethene	ND		1.0	0.24	ug/L			07/17/17 09:21	1
Toluene	ND		1.0	0.16	ug/L			07/17/17 09:21	1
trans-1,2-Dichloroethene	ND		1.0	0.20	ug/L			07/17/17 09:21	1
1,1,1-Trichloroethane	ND		1.0	0.27	ug/L			07/17/17 09:21	1
Trichloroethene	ND		1.0	0.20	ug/L			07/17/17 09:21	1
1,2,4-Trimethylbenzene	ND		1.0	0.18	ug/L			07/17/17 09:21	1
1,3,5-Trimethylbenzene	ND		1.0	0.17	ug/L			07/17/17 09:21	1
Vinyl chloride	ND		1.0	0.17	ug/L			07/17/17 09:21	1
Xylenes, Total	ND		2.0	0.27	ug/L			07/17/17 09:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*105*		*72 - 120*		*07/17/17 09:21*	*1*
Dibromofluoromethane (Surr)	*100*		*77 - 127*		*07/17/17 09:21*	*1*
1,2-Dichloroethane-d4 (Surr)	*87*		*72 - 134*		*07/17/17 09:21*	*1*
Toluene-d8 (Surr)	*86*		*80 - 120*		*07/17/17 09:21*	*1*

Method: 8260C - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 180-217200/7
Matrix: Water
Analysis Batch: 217200

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		5.0	3.1	ug/L			07/17/17 07:13	1
Benzene	ND		1.0	0.18	ug/L			07/17/17 07:13	1
2-Butanone (MEK)	ND		5.0	2.6	ug/L			07/17/17 07:13	1
Carbon tetrachloride	ND		1.0	0.56	ug/L			07/17/17 07:13	1
Chlorobenzene	ND		1.0	0.15	ug/L			07/17/17 07:13	1
Chloroform	ND		1.0	0.27	ug/L			07/17/17 07:13	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			07/17/17 07:13	1
1,2-Dichlorobenzene	ND		1.0	0.23	ug/L			07/17/17 07:13	1
1,3-Dichlorobenzene	ND		1.0	0.21	ug/L			07/17/17 07:13	1
1,4-Dichlorobenzene	ND		1.0	0.24	ug/L			07/17/17 07:13	1
1,1-Dichloroethane	ND		1.0	0.34	ug/L			07/17/17 07:13	1
1,2-Dichloroethane	ND		1.0	0.24	ug/L			07/17/17 07:13	1
1,1-Dichloroethene	ND		1.0	0.32	ug/L			07/17/17 07:13	1
Ethylbenzene	ND		1.0	0.25	ug/L			07/17/17 07:13	1
Methylene Chloride	ND		1.0	0.94	ug/L			07/17/17 07:13	1
Methyl tert-butyl ether	ND		1.0	0.20	ug/L			07/17/17 07:13	1
n-Butylbenzene	ND		1.0	0.22	ug/L			07/17/17 07:13	1
N-Propylbenzene	ND		1.0	0.20	ug/L			07/17/17 07:13	1
sec-Butylbenzene	ND		1.0	0.22	ug/L			07/17/17 07:13	1
tert-Butylbenzene	ND		1.0	0.17	ug/L			07/17/17 07:13	1
Tetrachloroethene	ND		1.0	0.24	ug/L			07/17/17 07:13	1
Toluene	ND		1.0	0.16	ug/L			07/17/17 07:13	1
trans-1,2-Dichloroethene	ND		1.0	0.20	ug/L			07/17/17 07:13	1
1,1,1-Trichloroethane	ND		1.0	0.27	ug/L			07/17/17 07:13	1
Trichloroethene	ND		1.0	0.20	ug/L			07/17/17 07:13	1
1,2,4-Trimethylbenzene	ND		1.0	0.18	ug/L			07/17/17 07:13	1
1,3,5-Trimethylbenzene	ND		1.0	0.17	ug/L			07/17/17 07:13	1
Vinyl chloride	ND		1.0	0.17	ug/L			07/17/17 07:13	1
Xylenes, Total	ND		2.0	0.27	ug/L			07/17/17 07:13	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*72 - 120*		*07/17/17 07:13*	*1*
Dibromofluoromethane (Surr)	*97*		*77 - 127*		*07/17/17 07:13*	*1*
1,2-Dichloroethane-d4 (Surr)	*85*		*72 - 134*		*07/17/17 07:13*	*1*
Toluene-d8 (Surr)	*85*		*80 - 120*		*07/17/17 07:13*	*1*

Lab Sample ID: LCS 180-217200/4
Matrix: Water
Analysis Batch: 217200

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	20.0	15.6		ug/L		78	10 - 150
Benzene	10.0	11.1		ug/L		111	80 - 121
2-Butanone (MEK)	20.0	16.7		ug/L		84	41 - 150
Carbon tetrachloride	10.0	11.6		ug/L		116	59 - 145
Chlorobenzene	10.0	10.7		ug/L		107	80 - 120
Chloroform	10.0	10.2		ug/L		102	78 - 122
cis-1,2-Dichloroethene	10.0	10.7		ug/L		107	80 - 120

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 180-217200/4
Matrix: Water
Analysis Batch: 217200

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichlorobenzene	10.0	10.6		ug/L		106	80 - 120
1,3-Dichlorobenzene	10.0	10.5		ug/L		105	80 - 120
1,4-Dichlorobenzene	10.0	10.6		ug/L		106	80 - 120
1,1-Dichloroethane	10.0	10.1		ug/L		101	76 - 126
1,2-Dichloroethane	10.0	8.79		ug/L		88	72 - 126
1,1-Dichloroethene	10.0	12.0		ug/L		120	71 - 122
Ethylbenzene	10.0	11.3		ug/L		113	80 - 123
Methylene Chloride	10.0	10.1		ug/L		101	71 - 129
Methyl tert-butyl ether	10.0	9.36		ug/L		94	68 - 124
n-Butylbenzene	10.0	12.1	*	ug/L		121	75 - 120
N-Propylbenzene	10.0	10.8		ug/L		108	78 - 121
sec-Butylbenzene	10.0	11.7		ug/L		117	80 - 121
tert-Butylbenzene	10.0	11.2		ug/L		112	79 - 120
Tetrachloroethene	10.0	12.0		ug/L		120	80 - 122
Toluene	10.0	10.9		ug/L		109	80 - 125
trans-1,2-Dichloroethene	10.0	11.6		ug/L		116	80 - 121
1,1,1-Trichloroethane	10.0	10.8		ug/L		108	57 - 128
Trichloroethene	10.0	11.0		ug/L		110	79 - 120
1,2,4-Trimethylbenzene	10.0	11.2		ug/L		112	80 - 120
1,3,5-Trimethylbenzene	10.0	11.2		ug/L		112	80 - 122
Vinyl chloride	10.0	10.3		ug/L		103	61 - 138
Xylenes, Total	20.0	22.4		ug/L		112	80 - 123

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*72 - 120*
Dibromofluoromethane (Surr)	*104*		*77 - 127*
1,2-Dichloroethane-d4 (Surr)	*93*		*72 - 134*
Toluene-d8 (Surr)	*107*		*80 - 120*

Lab Sample ID: LCSD 180-217200/5
Matrix: Water
Analysis Batch: 217200

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	20.0	13.8		ug/L		69	10 - 150	12	35
Benzene	10.0	10.3		ug/L		103	80 - 121	7	15
2-Butanone (MEK)	20.0	15.1		ug/L		76	41 - 150	10	35
Carbon tetrachloride	10.0	10.2		ug/L		102	59 - 145	13	19
Chlorobenzene	10.0	9.21		ug/L		92	80 - 120	15	15
Chloroform	10.0	9.53		ug/L		95	78 - 122	7	15
cis-1,2-Dichloroethene	10.0	9.89		ug/L		99	80 - 120	8	17
1,2-Dichlorobenzene	10.0	9.73		ug/L		97	80 - 120	9	15
1,3-Dichlorobenzene	10.0	9.69		ug/L		97	80 - 120	8	15
1,4-Dichlorobenzene	10.0	9.55		ug/L		96	80 - 120	10	15
1,1-Dichloroethane	10.0	9.49		ug/L		95	76 - 126	7	22
1,2-Dichloroethane	10.0	8.35		ug/L		83	72 - 126	5	15
1,1-Dichloroethene	10.0	10.8		ug/L		108	71 - 122	10	18
Ethylbenzene	10.0	9.77		ug/L		98	80 - 123	14	15

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 180-217200/5
Matrix: Water
Analysis Batch: 217200

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methylene Chloride			10.0	9.43		ug/L		94	71 - 129	7	19
Methyl tert-butyl ether			10.0	9.04		ug/L		90	68 - 124	4	25
n-Butylbenzene			10.0	10.8		ug/L		108	75 - 120	12	15
N-Propylbenzene			10.0	9.52		ug/L		95	78 - 121	12	15
sec-Butylbenzene			10.0	10.5		ug/L		105	80 - 121	11	15
tert-Butylbenzene			10.0	10.2		ug/L		102	79 - 120	10	15
Tetrachloroethene			10.0	10.4		ug/L		104	80 - 122	14	15
Toluene			10.0	9.46		ug/L		95	80 - 125	14	15
trans-1,2-Dichloroethene			10.0	10.1		ug/L		101	80 - 121	13	18
1,1,1-Trichloroethane			10.0	9.49		ug/L		95	57 - 128	13	19
Trichloroethene			10.0	10.1		ug/L		101	79 - 120	9	15
1,2,4-Trimethylbenzene			10.0	10.2		ug/L		102	80 - 120	10	15
1,3,5-Trimethylbenzene			10.0	10.1		ug/L		101	80 - 122	10	15
Vinyl chloride			10.0	9.05		ug/L		91	61 - 138	12	16
Xylenes, Total			20.0	19.6		ug/L		98	80 - 123	13	15

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*72 - 120*
Dibromofluoromethane (Surr)	*103*		*77 - 127*
1,2-Dichloroethane-d4 (Surr)	*93*		*72 - 134*
Toluene-d8 (Surr)	*99*		*80 - 120*

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 180-216893/9
Matrix: Solid
Analysis Batch: 216893

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.020	0.0032	mg/Kg			07/13/17 08:59	1
Benzene	ND		0.0050	0.0020	mg/Kg			07/13/17 08:59	1
2-Butanone (MEK)	ND		0.0050	0.0029	mg/Kg			07/13/17 08:59	1
Carbon tetrachloride	ND		0.0050	0.0033	mg/Kg			07/13/17 08:59	1
Chlorobenzene	ND		0.0050	0.0016	mg/Kg			07/13/17 08:59	1
Chloroform	ND		0.0050	0.0021	mg/Kg			07/13/17 08:59	1
cis-1,2-Dichloroethene	ND		0.0050	0.0016	mg/Kg			07/13/17 08:59	1
1,2-Dichlorobenzene	ND		0.0050	0.0040	mg/Kg			07/13/17 08:59	1
1,3-Dichlorobenzene	ND		0.0050	0.0016	mg/Kg			07/13/17 08:59	1
1,4-Dichlorobenzene	ND		0.0050	0.0010	mg/Kg			07/13/17 08:59	1
1,1-Dichloroethane	ND		0.0050	0.0018	mg/Kg			07/13/17 08:59	1
1,2-Dichloroethane	ND		0.0050	0.0015	mg/Kg			07/13/17 08:59	1
1,1-Dichloroethene	ND		0.0050	0.0029	mg/Kg			07/13/17 08:59	1
Ethylbenzene	ND		0.0050	0.0022	mg/Kg			07/13/17 08:59	1
Methylene Chloride	ND		0.0050	0.0024	mg/Kg			07/13/17 08:59	1
Methyl tert-butyl ether	ND		0.0050	0.0037	mg/Kg			07/13/17 08:59	1
n-Butylbenzene	ND		0.0050	0.0038	mg/Kg			07/13/17 08:59	1
N-Propylbenzene	ND		0.0050	0.0021	mg/Kg			07/13/17 08:59	1
sec-Butylbenzene	ND		0.0050	0.0024	mg/Kg			07/13/17 08:59	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 180-216893/9
Matrix: Solid
Analysis Batch: 216893

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	ND		0.0050	0.0018	mg/Kg			07/13/17 08:59	1
Tetrachloroethene	ND		0.0050	0.0020	mg/Kg			07/13/17 08:59	1
Toluene	ND		0.0050	0.0017	mg/Kg			07/13/17 08:59	1
trans-1,2-Dichloroethene	ND		0.0050	0.0025	mg/Kg			07/13/17 08:59	1
1,1,1-Trichloroethane	ND		0.0050	0.0025	mg/Kg			07/13/17 08:59	1
Trichloroethene	ND		0.0050	0.0015	mg/Kg			07/13/17 08:59	1
1,2,4-Trimethylbenzene	ND		0.0050	0.0013	mg/Kg			07/13/17 08:59	1
1,3,5-Trimethylbenzene	ND		0.0050	0.0017	mg/Kg			07/13/17 08:59	1
Vinyl chloride	ND		0.0050	0.0037	mg/Kg			07/13/17 08:59	1
Xylenes, Total	ND		0.010	0.0043	mg/Kg			07/13/17 08:59	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*63 - 120*		*07/13/17 08:59*	*1*
Dibromofluoromethane (Surr)	*91*		*68 - 121*		*07/13/17 08:59*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*52 - 124*		*07/13/17 08:59*	*1*
Toluene-d8 (Surr)	*105*		*72 - 127*		*07/13/17 08:59*	*1*

Lab Sample ID: LCS 180-216893/4
Matrix: Solid
Analysis Batch: 216893

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0400	0.0366		mg/Kg		92	20 - 150
Benzene	0.0400	0.0367		mg/Kg		92	77 - 120
2-Butanone (MEK)	0.0400	0.0345		mg/Kg		86	35 - 149
Carbon tetrachloride	0.0400	0.0324		mg/Kg		81	69 - 122
Chlorobenzene	0.0400	0.0352		mg/Kg		88	79 - 120
Chloroform	0.0400	0.0354		mg/Kg		89	72 - 120
cis-1,2-Dichloroethene	0.0400	0.0350		mg/Kg		87	80 - 118
1,2-Dichlorobenzene	0.0400	0.0353		mg/Kg		88	71 - 124
1,3-Dichlorobenzene	0.0400	0.0353		mg/Kg		88	75 - 118
1,4-Dichlorobenzene	0.0400	0.0353		mg/Kg		88	77 - 116
1,1-Dichloroethane	0.0400	0.0382		mg/Kg		95	66 - 124
1,2-Dichloroethane	0.0400	0.0351		mg/Kg		88	61 - 127
1,1-Dichloroethene	0.0400	0.0344		mg/Kg		86	59 - 129
Ethylbenzene	0.0400	0.0349		mg/Kg		87	78 - 125
Methylene Chloride	0.0400	0.0330		mg/Kg		83	58 - 127
Methyl tert-butyl ether	0.0400	0.0343		mg/Kg		86	48 - 132
n-Butylbenzene	0.0400	0.0387		mg/Kg		97	59 - 145
N-Propylbenzene	0.0400	0.0354		mg/Kg		89	80 - 120
sec-Butylbenzene	0.0400	0.0382		mg/Kg		96	70 - 130
tert-Butylbenzene	0.0400	0.0365		mg/Kg		91	74 - 133
Tetrachloroethene	0.0400	0.0357		mg/Kg		89	78 - 129
Toluene	0.0400	0.0377		mg/Kg		94	78 - 124
trans-1,2-Dichloroethene	0.0400	0.0356		mg/Kg		89	77 - 121
1,1,1-Trichloroethane	0.0400	0.0358		mg/Kg		90	67 - 126
Trichloroethene	0.0400	0.0352		mg/Kg		88	76 - 119
1,2,4-Trimethylbenzene	0.0400	0.0371		mg/Kg		93	80 - 121

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 180-216893/4
Matrix: Solid
Analysis Batch: 216893

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,3,5-Trimethylbenzene			0.0400	0.0373		mg/Kg		93	68 - 133		
Vinyl chloride			0.0400	0.0410		mg/Kg		103	63 - 124		
Xylenes, Total			0.0800	0.0698		mg/Kg		87	83 - 126		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*91*		*63 - 120*
Dibromofluoromethane (Surr)	*88*		*68 - 121*
1,2-Dichloroethane-d4 (Surr)	*91*		*52 - 124*
Toluene-d8 (Surr)	*97*		*72 - 127*

Lab Sample ID: 180-68096-4 MS
Matrix: Solid
Analysis Batch: 216893

Client Sample ID: W2, S1, A 71117
Prep Type: Total/NA
Prep Batch: 216904

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Acetone	ND		0.0316	0.0199		mg/Kg	☼	63	20 - 150		
Benzene	ND		0.0316	0.0307		mg/Kg	☼	97	77 - 120		
2-Butanone (MEK)	ND		0.0316	0.0199		mg/Kg	☼	63	35 - 149		
Carbon tetrachloride	ND		0.0316	0.0290		mg/Kg	☼	92	69 - 122		
Chlorobenzene	ND		0.0316	0.0294		mg/Kg	☼	93	79 - 120		
Chloroform	ND		0.0316	0.0295		mg/Kg	☼	93	72 - 120		
cis-1,2-Dichloroethene	ND		0.0316	0.0283		mg/Kg	☼	90	80 - 118		
1,2-Dichlorobenzene	ND		0.0316	0.0293		mg/Kg	☼	93	71 - 124		
1,3-Dichlorobenzene	ND		0.0316	0.0305		mg/Kg	☼	97	75 - 118		
1,4-Dichlorobenzene	ND		0.0316	0.0295		mg/Kg	☼	93	77 - 116		
1,1-Dichloroethane	ND		0.0316	0.0332		mg/Kg	☼	105	66 - 124		
1,2-Dichloroethane	ND		0.0316	0.0251		mg/Kg	☼	79	61 - 127		
1,1-Dichloroethene	ND		0.0316	0.0305		mg/Kg	☼	97	59 - 129		
Ethylbenzene	ND		0.0316	0.0305		mg/Kg	☼	97	78 - 125		
Methylene Chloride	ND		0.0316	0.0264		mg/Kg	☼	83	58 - 127		
Methyl tert-butyl ether	ND		0.0316	0.0232		mg/Kg	☼	73	48 - 132		
n-Butylbenzene	ND		0.0316	0.0323		mg/Kg	☼	102	59 - 145		
N-Propylbenzene	ND		0.0316	0.0352		mg/Kg	☼	111	80 - 120		
sec-Butylbenzene	ND		0.0316	0.0353		mg/Kg	☼	112	70 - 130		
tert-Butylbenzene	ND		0.0316	0.0365		mg/Kg	☼	116	74 - 133		
Tetrachloroethene	ND		0.0316	0.0314		mg/Kg	☼	100	78 - 129		
Toluene	ND		0.0316	0.0333		mg/Kg	☼	106	78 - 124		
trans-1,2-Dichloroethene	ND		0.0316	0.0293		mg/Kg	☼	93	77 - 121		
1,1,1-Trichloroethane	ND		0.0316	0.0314		mg/Kg	☼	99	67 - 126		
Trichloroethene	ND		0.0316	0.0287		mg/Kg	☼	91	76 - 119		
1,2,4-Trimethylbenzene	ND		0.0316	0.0361		mg/Kg	☼	114	80 - 121		
1,3,5-Trimethylbenzene	ND		0.0316	0.0368		mg/Kg	☼	117	68 - 133		
Vinyl chloride	ND		0.0316	0.0355		mg/Kg	☼	112	63 - 124		
Xylenes, Total	ND		0.0632	0.0603		mg/Kg	☼	95	83 - 126		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*90*		*63 - 120*

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 180-68096-4 MS
Matrix: Solid
Analysis Batch: 216893

Client Sample ID: W2, S1, A 71117
Prep Type: Total/NA
Prep Batch: 216904

Surrogate	MS %Recovery	MS Qualifier	Limits
Dibromofluoromethane (Surr)	*94*		*68 - 121*
1,2-Dichloroethane-d4 (Surr)	*81*		*52 - 124*
Toluene-d8 (Surr)	*112*		*72 - 127*

Lab Sample ID: 180-68096-4 MSD
Matrix: Solid
Analysis Batch: 216893

Client Sample ID: W2, S1, A 71117
Prep Type: Total/NA
Prep Batch: 216904

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	ND		0.0338	0.0218		mg/Kg	☼	65	20 - 150	9	40
Benzene	ND		0.0338	0.0354		mg/Kg	☼	105	77 - 120	14	20
2-Butanone (MEK)	ND		0.0338	0.0211		mg/Kg	☼	62	35 - 149	6	36
Carbon tetrachloride	ND		0.0338	0.0343		mg/Kg	☼	102	69 - 122	17	22
Chlorobenzene	ND		0.0338	0.0342		mg/Kg	☼	101	79 - 120	15	20
Chloroform	ND		0.0338	0.0340		mg/Kg	☼	101	72 - 120	14	25
cis-1,2-Dichloroethene	ND		0.0338	0.0327		mg/Kg	☼	97	80 - 118	14	20
1,2-Dichlorobenzene	ND		0.0338	0.0335		mg/Kg	☼	99	71 - 124	13	22
1,3-Dichlorobenzene	ND		0.0338	0.0351		mg/Kg	☼	104	75 - 118	14	20
1,4-Dichlorobenzene	ND		0.0338	0.0340		mg/Kg	☼	101	77 - 116	14	20
1,1-Dichloroethane	ND		0.0338	0.0382		mg/Kg	☼	113	66 - 124	14	23
1,2-Dichloroethane	ND		0.0338	0.0283		mg/Kg	☼	84	61 - 127	12	23
1,1-Dichloroethene	ND		0.0338	0.0351		mg/Kg	☼	104	59 - 129	14	25
Ethylbenzene	ND		0.0338	0.0354		mg/Kg	☼	105	78 - 125	15	21
Methylene Chloride	ND		0.0338	0.0302		mg/Kg	☼	89	58 - 127	13	28
Methyl tert-butyl ether	ND		0.0338	0.0261		mg/Kg	☼	77	48 - 132	12	36
n-Butylbenzene	ND		0.0338	0.0379		mg/Kg	☼	112	59 - 145	16	24
N-Propylbenzene	ND		0.0338	0.0402		mg/Kg	☼	119	80 - 120	13	20
sec-Butylbenzene	ND		0.0338	0.0397		mg/Kg	☼	118	70 - 130	12	21
tert-Butylbenzene	ND		0.0338	0.0409		mg/Kg	☼	121	74 - 133	11	22
Tetrachloroethene	ND		0.0338	0.0369		mg/Kg	☼	109	78 - 129	16	20
Toluene	ND		0.0338	0.0381		mg/Kg	☼	113	78 - 124	13	21
trans-1,2-Dichloroethene	ND		0.0338	0.0341		mg/Kg	☼	101	77 - 121	15	20
1,1,1-Trichloroethane	ND		0.0338	0.0369		mg/Kg	☼	109	67 - 126	16	31
Trichloroethene	ND		0.0338	0.0341		mg/Kg	☼	101	76 - 119	17	21
1,2,4-Trimethylbenzene	ND		0.0338	0.0400		mg/Kg	☼	118	80 - 121	10	20
1,3,5-Trimethylbenzene	ND		0.0338	0.0410		mg/Kg	☼	122	68 - 133	11	21
Vinyl chloride	ND		0.0338	0.0410		mg/Kg	☼	122	63 - 124	14	27
Xylenes, Total	ND		0.0675	0.0706		mg/Kg	☼	105	83 - 126	16	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	*93*		*63 - 120*
Dibromofluoromethane (Surr)	*93*		*68 - 121*
1,2-Dichloroethane-d4 (Surr)	*81*		*52 - 124*
Toluene-d8 (Surr)	*111*		*72 - 127*

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 180-217056/9
Matrix: Solid
Analysis Batch: 217056

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.020	0.0032	mg/Kg			07/14/17 10:13	1
Benzene	ND		0.0050	0.0020	mg/Kg			07/14/17 10:13	1
2-Butanone (MEK)	ND		0.0050	0.0029	mg/Kg			07/14/17 10:13	1
Carbon tetrachloride	ND		0.0050	0.0033	mg/Kg			07/14/17 10:13	1
Chlorobenzene	ND		0.0050	0.0016	mg/Kg			07/14/17 10:13	1
Chloroform	ND		0.0050	0.0021	mg/Kg			07/14/17 10:13	1
cis-1,2-Dichloroethene	ND		0.0050	0.0016	mg/Kg			07/14/17 10:13	1
1,2-Dichlorobenzene	ND		0.0050	0.0040	mg/Kg			07/14/17 10:13	1
1,3-Dichlorobenzene	ND		0.0050	0.0016	mg/Kg			07/14/17 10:13	1
1,4-Dichlorobenzene	ND		0.0050	0.0010	mg/Kg			07/14/17 10:13	1
1,1-Dichloroethane	ND		0.0050	0.0018	mg/Kg			07/14/17 10:13	1
1,2-Dichloroethane	ND		0.0050	0.0015	mg/Kg			07/14/17 10:13	1
1,1-Dichloroethene	ND		0.0050	0.0029	mg/Kg			07/14/17 10:13	1
Ethylbenzene	ND		0.0050	0.0022	mg/Kg			07/14/17 10:13	1
Methylene Chloride	ND		0.0050	0.0024	mg/Kg			07/14/17 10:13	1
Methyl tert-butyl ether	ND		0.0050	0.0037	mg/Kg			07/14/17 10:13	1
n-Butylbenzene	ND		0.0050	0.0038	mg/Kg			07/14/17 10:13	1
N-Propylbenzene	ND		0.0050	0.0021	mg/Kg			07/14/17 10:13	1
sec-Butylbenzene	ND		0.0050	0.0024	mg/Kg			07/14/17 10:13	1
tert-Butylbenzene	ND		0.0050	0.0018	mg/Kg			07/14/17 10:13	1
Tetrachloroethene	ND		0.0050	0.0020	mg/Kg			07/14/17 10:13	1
Toluene	ND		0.0050	0.0017	mg/Kg			07/14/17 10:13	1
trans-1,2-Dichloroethene	ND		0.0050	0.0025	mg/Kg			07/14/17 10:13	1
1,1,1-Trichloroethane	ND		0.0050	0.0025	mg/Kg			07/14/17 10:13	1
Trichloroethene	ND		0.0050	0.0015	mg/Kg			07/14/17 10:13	1
1,2,4-Trimethylbenzene	ND		0.0050	0.0013	mg/Kg			07/14/17 10:13	1
1,3,5-Trimethylbenzene	ND		0.0050	0.0017	mg/Kg			07/14/17 10:13	1
Vinyl chloride	ND		0.0050	0.0037	mg/Kg			07/14/17 10:13	1
Xylenes, Total	ND		0.010	0.0043	mg/Kg			07/14/17 10:13	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*63 - 120*		*07/14/17 10:13*	*1*
Dibromofluoromethane (Surr)	*95*		*68 - 121*		*07/14/17 10:13*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*52 - 124*		*07/14/17 10:13*	*1*
Toluene-d8 (Surr)	*109*		*72 - 127*		*07/14/17 10:13*	*1*

Lab Sample ID: LCS 180-217056/4
Matrix: Solid
Analysis Batch: 217056

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0400	0.0478		mg/Kg		120	20 - 150
Benzene	0.0400	0.0387		mg/Kg		97	77 - 120
2-Butanone (MEK)	0.0400	0.0418		mg/Kg		105	35 - 149
Carbon tetrachloride	0.0400	0.0335		mg/Kg		84	69 - 122
Chlorobenzene	0.0400	0.0375		mg/Kg		94	79 - 120
Chloroform	0.0400	0.0374		mg/Kg		94	72 - 120
cis-1,2-Dichloroethene	0.0400	0.0373		mg/Kg		93	80 - 118

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 180-217056/4
Matrix: Solid
Analysis Batch: 217056

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichlorobenzene	0.0400	0.0379		mg/Kg		95	71 - 124
1,3-Dichlorobenzene	0.0400	0.0376		mg/Kg		94	75 - 118
1,4-Dichlorobenzene	0.0400	0.0378		mg/Kg		94	77 - 116
1,1-Dichloroethane	0.0400	0.0406		mg/Kg		102	66 - 124
1,2-Dichloroethane	0.0400	0.0378		mg/Kg		95	61 - 127
1,1-Dichloroethene	0.0400	0.0375		mg/Kg		94	59 - 129
Ethylbenzene	0.0400	0.0368		mg/Kg		92	78 - 125
Methylene Chloride	0.0400	0.0350		mg/Kg		87	58 - 127
Methyl tert-butyl ether	0.0400	0.0371		mg/Kg		93	48 - 132
n-Butylbenzene	0.0400	0.0408		mg/Kg		102	59 - 145
N-Propylbenzene	0.0400	0.0366		mg/Kg		92	80 - 120
sec-Butylbenzene	0.0400	0.0394		mg/Kg		98	70 - 130
tert-Butylbenzene	0.0400	0.0388		mg/Kg		97	74 - 133
Tetrachloroethene	0.0400	0.0374		mg/Kg		93	78 - 129
Toluene	0.0400	0.0394		mg/Kg		98	78 - 124
trans-1,2-Dichloroethene	0.0400	0.0378		mg/Kg		95	77 - 121
1,1,1-Trichloroethane	0.0400	0.0371		mg/Kg		93	67 - 126
Trichloroethene	0.0400	0.0368		mg/Kg		92	76 - 119
1,2,4-Trimethylbenzene	0.0400	0.0389		mg/Kg		97	80 - 121
1,3,5-Trimethylbenzene	0.0400	0.0387		mg/Kg		97	68 - 133
Vinyl chloride	0.0400	0.0474		mg/Kg		118	63 - 124
Xylenes, Total	0.0800	0.0742		mg/Kg		93	83 - 126

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*63 - 120*
Dibromofluoromethane (Surr)	*97*		*68 - 121*
1,2-Dichloroethane-d4 (Surr)	*97*		*52 - 124*
Toluene-d8 (Surr)	*105*		*72 - 127*

Lab Sample ID: MB 180-217186/9
Matrix: Solid
Analysis Batch: 217186

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.020	0.0032	mg/Kg			07/16/17 11:34	1
Benzene	ND		0.0050	0.0020	mg/Kg			07/16/17 11:34	1
2-Butanone (MEK)	ND		0.0050	0.0029	mg/Kg			07/16/17 11:34	1
Carbon tetrachloride	ND		0.0050	0.0033	mg/Kg			07/16/17 11:34	1
Chlorobenzene	ND		0.0050	0.0016	mg/Kg			07/16/17 11:34	1
Chloroform	ND		0.0050	0.0021	mg/Kg			07/16/17 11:34	1
cis-1,2-Dichloroethene	ND		0.0050	0.0016	mg/Kg			07/16/17 11:34	1
1,2-Dichlorobenzene	ND		0.0050	0.0040	mg/Kg			07/16/17 11:34	1
1,3-Dichlorobenzene	ND		0.0050	0.0016	mg/Kg			07/16/17 11:34	1
1,4-Dichlorobenzene	ND		0.0050	0.0010	mg/Kg			07/16/17 11:34	1
1,1-Dichloroethane	ND		0.0050	0.0018	mg/Kg			07/16/17 11:34	1
1,2-Dichloroethane	ND		0.0050	0.0015	mg/Kg			07/16/17 11:34	1
1,1-Dichloroethene	ND		0.0050	0.0029	mg/Kg			07/16/17 11:34	1
Ethylbenzene	ND		0.0050	0.0022	mg/Kg			07/16/17 11:34	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 180-217186/9
Matrix: Solid
Analysis Batch: 217186

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		0.0050	0.0024	mg/Kg			07/16/17 11:34	1
Methyl tert-butyl ether	ND		0.0050	0.0037	mg/Kg			07/16/17 11:34	1
n-Butylbenzene	ND		0.0050	0.0038	mg/Kg			07/16/17 11:34	1
N-Propylbenzene	ND		0.0050	0.0021	mg/Kg			07/16/17 11:34	1
sec-Butylbenzene	ND		0.0050	0.0024	mg/Kg			07/16/17 11:34	1
tert-Butylbenzene	ND		0.0050	0.0018	mg/Kg			07/16/17 11:34	1
Tetrachloroethene	ND		0.0050	0.0020	mg/Kg			07/16/17 11:34	1
Toluene	ND		0.0050	0.0017	mg/Kg			07/16/17 11:34	1
trans-1,2-Dichloroethene	ND		0.0050	0.0025	mg/Kg			07/16/17 11:34	1
1,1,1-Trichloroethane	ND		0.0050	0.0025	mg/Kg			07/16/17 11:34	1
Trichloroethene	ND		0.0050	0.0015	mg/Kg			07/16/17 11:34	1
1,2,4-Trimethylbenzene	ND		0.0050	0.0013	mg/Kg			07/16/17 11:34	1
1,3,5-Trimethylbenzene	ND		0.0050	0.0017	mg/Kg			07/16/17 11:34	1
Vinyl chloride	ND		0.0050	0.0037	mg/Kg			07/16/17 11:34	1
Xylenes, Total	ND		0.010	0.0043	mg/Kg			07/16/17 11:34	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*63 - 120*		*07/16/17 11:34*	*1*
Dibromofluoromethane (Surr)	*95*		*68 - 121*		*07/16/17 11:34*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*52 - 124*		*07/16/17 11:34*	*1*
Toluene-d8 (Surr)	*110*		*72 - 127*		*07/16/17 11:34*	*1*

Lab Sample ID: LCS 180-217186/4
Matrix: Solid
Analysis Batch: 217186

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0400	0.0423		mg/Kg		106	20 - 150
Benzene	0.0400	0.0398		mg/Kg		100	77 - 120
2-Butanone (MEK)	0.0400	0.0368		mg/Kg		92	35 - 149
Carbon tetrachloride	0.0400	0.0365		mg/Kg		91	69 - 122
Chlorobenzene	0.0400	0.0379		mg/Kg		95	79 - 120
Chloroform	0.0400	0.0383		mg/Kg		96	72 - 120
cis-1,2-Dichloroethene	0.0400	0.0378		mg/Kg		94	80 - 118
1,2-Dichlorobenzene	0.0400	0.0386		mg/Kg		96	71 - 124
1,3-Dichlorobenzene	0.0400	0.0389		mg/Kg		97	75 - 118
1,4-Dichlorobenzene	0.0400	0.0387		mg/Kg		97	77 - 116
1,1-Dichloroethane	0.0400	0.0415		mg/Kg		104	66 - 124
1,2-Dichloroethane	0.0400	0.0367		mg/Kg		92	61 - 127
1,1-Dichloroethene	0.0400	0.0378		mg/Kg		95	59 - 129
Ethylbenzene	0.0400	0.0387		mg/Kg		97	78 - 125
Methylene Chloride	0.0400	0.0355		mg/Kg		89	58 - 127
Methyl tert-butyl ether	0.0400	0.0366		mg/Kg		92	48 - 132
n-Butylbenzene	0.0400	0.0429		mg/Kg		107	59 - 145
N-Propylbenzene	0.0400	0.0385		mg/Kg		96	80 - 120
sec-Butylbenzene	0.0400	0.0420		mg/Kg		105	70 - 130
tert-Butylbenzene	0.0400	0.0399		mg/Kg		100	74 - 133
Tetrachloroethene	0.0400	0.0393		mg/Kg		98	78 - 129

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 180-217186/4
Matrix: Solid
Analysis Batch: 217186

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Toluene	0.0400	0.0414		mg/Kg		104	78 - 124
trans-1,2-Dichloroethene	0.0400	0.0386		mg/Kg		97	77 - 121
1,1,1-Trichloroethane	0.0400	0.0403		mg/Kg		101	67 - 126
Trichloroethene	0.0400	0.0381		mg/Kg		95	76 - 119
1,2,4-Trimethylbenzene	0.0400	0.0407		mg/Kg		102	80 - 121
1,3,5-Trimethylbenzene	0.0400	0.0411		mg/Kg		103	68 - 133
Vinyl chloride	0.0400	0.0482		mg/Kg		121	63 - 124
Xylenes, Total	0.0800	0.0771		mg/Kg		96	83 - 126

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*63 - 120*
Dibromofluoromethane (Surr)	*95*		*68 - 121*
1,2-Dichloroethane-d4 (Surr)	*94*		*52 - 124*
Toluene-d8 (Surr)	*106*		*72 - 127*

Lab Sample ID: LCSD 180-217186/5
Matrix: Solid
Analysis Batch: 217186

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	0.0400	0.0423		mg/Kg		106	20 - 150	0	40
Benzene	0.0400	0.0396		mg/Kg		99	77 - 120	1	20
2-Butanone (MEK)	0.0400	0.0414		mg/Kg		103	35 - 149	12	36
Carbon tetrachloride	0.0400	0.0359		mg/Kg		90	69 - 122	2	22
Chlorobenzene	0.0400	0.0384		mg/Kg		96	79 - 120	1	20
Chloroform	0.0400	0.0379		mg/Kg		95	72 - 120	1	25
cis-1,2-Dichloroethene	0.0400	0.0379		mg/Kg		95	80 - 118	0	20
1,2-Dichlorobenzene	0.0400	0.0389		mg/Kg		97	71 - 124	1	22
1,3-Dichlorobenzene	0.0400	0.0389		mg/Kg		97	75 - 118	0	20
1,4-Dichlorobenzene	0.0400	0.0388		mg/Kg		97	77 - 116	0	20
1,1-Dichloroethane	0.0400	0.0417		mg/Kg		104	66 - 124	1	23
1,2-Dichloroethane	0.0400	0.0375		mg/Kg		94	61 - 127	2	23
1,1-Dichloroethene	0.0400	0.0392		mg/Kg		98	59 - 129	4	25
Ethylbenzene	0.0400	0.0381		mg/Kg		95	78 - 125	1	21
Methylene Chloride	0.0400	0.0361		mg/Kg		90	58 - 127	2	28
Methyl tert-butyl ether	0.0400	0.0373		mg/Kg		93	48 - 132	2	36
n-Butylbenzene	0.0400	0.0427		mg/Kg		107	59 - 145	0	24
N-Propylbenzene	0.0400	0.0384		mg/Kg		96	80 - 120	0	20
sec-Butylbenzene	0.0400	0.0418		mg/Kg		104	70 - 130	1	21
tert-Butylbenzene	0.0400	0.0395		mg/Kg		99	74 - 133	1	22
Tetrachloroethene	0.0400	0.0394		mg/Kg		98	78 - 129	0	20
Toluene	0.0400	0.0411		mg/Kg		103	78 - 124	1	21
trans-1,2-Dichloroethene	0.0400	0.0389		mg/Kg		97	77 - 121	1	20
1,1,1-Trichloroethane	0.0400	0.0389		mg/Kg		97	67 - 126	4	31
Trichloroethene	0.0400	0.0381		mg/Kg		95	76 - 119	0	21
1,2,4-Trimethylbenzene	0.0400	0.0405		mg/Kg		101	80 - 121	1	20
1,3,5-Trimethylbenzene	0.0400	0.0406		mg/Kg		102	68 - 133	1	21
Vinyl chloride	0.0400	0.0486		mg/Kg		122	63 - 124	1	27

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 180-217186/5
Matrix: Solid
Analysis Batch: 217186

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Xylenes, Total			0.0800	0.0769		mg/Kg		96	83 - 126	0	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*105*		*63 - 120*
Dibromofluoromethane (Surr)	*102*		*68 - 121*
1,2-Dichloroethane-d4 (Surr)	*100*		*52 - 124*
Toluene-d8 (Surr)	*111*		*72 - 127*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Lab Sample ID: MB 180-216880/1-A
Matrix: Solid
Analysis Batch: 216940

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 216880

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0067	0.0022	mg/Kg		07/13/17 03:37	07/13/17 12:45	1
Acenaphthylene	ND		0.0067	0.0023	mg/Kg		07/13/17 03:37	07/13/17 12:45	1
Anthracene	ND		0.0067	0.0025	mg/Kg		07/13/17 03:37	07/13/17 12:45	1
Benzo[a]anthracene	ND		0.0067	0.0026	mg/Kg		07/13/17 03:37	07/13/17 12:45	1
Benzo[a]pyrene	ND		0.0067	0.0028	mg/Kg		07/13/17 03:37	07/13/17 12:45	1
Benzo[b]fluoranthene	ND		0.0067	0.0029	mg/Kg		07/13/17 03:37	07/13/17 12:45	1
Benzo[g,h,i]perylene	ND		0.0067	0.0029	mg/Kg		07/13/17 03:37	07/13/17 12:45	1
Benzo[k]fluoranthene	ND		0.0067	0.0023	mg/Kg		07/13/17 03:37	07/13/17 12:45	1
Chrysene	ND		0.0067	0.0026	mg/Kg		07/13/17 03:37	07/13/17 12:45	1
Dibenz(a,h)anthracene	ND		0.0067	0.0028	mg/Kg		07/13/17 03:37	07/13/17 12:45	1
Dibenzofuran	ND		0.033	0.0027	mg/Kg		07/13/17 03:37	07/13/17 12:45	1
1,4-Dioxane	ND		0.067	0.0050	mg/Kg		07/13/17 03:37	07/13/17 12:45	1
Fluoranthene	ND		0.0067	0.0026	mg/Kg		07/13/17 03:37	07/13/17 12:45	1
Fluorene	ND		0.0067	0.0024	mg/Kg		07/13/17 03:37	07/13/17 12:45	1
Hexachlorobenzene	ND		0.0067	0.0027	mg/Kg		07/13/17 03:37	07/13/17 12:45	1
Indeno[1,2,3-cd]pyrene	ND		0.0067	0.0026	mg/Kg		07/13/17 03:37	07/13/17 12:45	1
2-Methylphenol	ND		0.033	0.0029	mg/Kg		07/13/17 03:37	07/13/17 12:45	1
Methylphenol, 3 & 4	ND		0.033	0.0030	mg/Kg		07/13/17 03:37	07/13/17 12:45	1
Naphthalene	ND		0.0067	0.0024	mg/Kg		07/13/17 03:37	07/13/17 12:45	1
Pentachlorophenol	ND		0.17	0.063	mg/Kg		07/13/17 03:37	07/13/17 12:45	1
Phenanthrene	ND		0.0067	0.0028	mg/Kg		07/13/17 03:37	07/13/17 12:45	1
Phenol	ND		0.033	0.0045	mg/Kg		07/13/17 03:37	07/13/17 12:45	1
Pyrene	ND		0.0067	0.0030	mg/Kg		07/13/17 03:37	07/13/17 12:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*50*		*42 - 100*	*07/13/17 03:37*	*07/13/17 12:45*	*1*
2-Fluorophenol (Surr)	*56*		*21 - 107*	*07/13/17 03:37*	*07/13/17 12:45*	*1*
Nitrobenzene-d5 (Surr)	*58*		*35 - 109*	*07/13/17 03:37*	*07/13/17 12:45*	*1*
Phenol-d5 (Surr)	*51*		*29 - 105*	*07/13/17 03:37*	*07/13/17 12:45*	*1*
Terphenyl-d14 (Surr)	*59*		*36 - 113*	*07/13/17 03:37*	*07/13/17 12:45*	*1*
2,4,6-Tribromophenol (Surr)	*60*		*20 - 134*	*07/13/17 03:37*	*07/13/17 12:45*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCS 180-216880/2-A
Matrix: Solid
Analysis Batch: 216940

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 216880

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	0.667	0.539		mg/Kg		81	39 - 100
Acenaphthylene	0.667	0.498		mg/Kg		75	42 - 100
Anthracene	0.667	0.578		mg/Kg		87	43 - 100
Benzo[a]anthracene	0.667	0.554		mg/Kg		83	43 - 100
Benzo[a]pyrene	0.667	0.521		mg/Kg		78	43 - 100
Benzo[b]fluoranthene	0.667	0.535		mg/Kg		80	40 - 100
Benzo[g,h,i]perylene	0.667	0.436		mg/Kg		65	41 - 102
Benzo[k]fluoranthene	0.667	0.519		mg/Kg		78	44 - 100
Chrysene	0.667	0.494		mg/Kg		74	44 - 100
Dibenz(a,h)anthracene	0.667	0.468		mg/Kg		70	40 - 104
Dibenzofuran	0.667	0.501		mg/Kg		75	42 - 100
1,4-Dioxane	0.667	0.603		mg/Kg		90	19 - 107
Fluoranthene	0.667	0.558		mg/Kg		84	41 - 104
Fluorene	0.667	0.553		mg/Kg		83	41 - 100
Hexachlorobenzene	0.667	0.612		mg/Kg		92	43 - 100
Indeno[1,2,3-cd]pyrene	0.667	0.474		mg/Kg		71	41 - 104
2-Methylphenol	0.667	0.572		mg/Kg		86	38 - 100
Methylphenol, 3 & 4	0.667	0.561		mg/Kg		84	40 - 100
Naphthalene	0.667	0.546		mg/Kg		82	38 - 100
Pentachlorophenol	1.33	1.22		mg/Kg		92	34 - 102
Phenanthrene	0.667	0.563		mg/Kg		84	41 - 100
Phenol	0.667	0.527		mg/Kg		79	36 - 100
Pyrene	0.667	0.537		mg/Kg		80	42 - 100

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*69*		*42 - 100*
2-Fluorophenol (Surr)	*74*		*21 - 107*
Nitrobenzene-d5 (Surr)	*74*		*35 - 109*
Phenol-d5 (Surr)	*69*		*29 - 105*
Terphenyl-d14 (Surr)	*72*		*36 - 113*
2,4,6-Tribromophenol (Surr)	*83*		*20 - 134*

Lab Sample ID: 180-68096-6 MS
Matrix: Solid
Analysis Batch: 216940

Client Sample ID: W2, S1, C 71117
Prep Type: Total/NA
Prep Batch: 216880

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	ND		0.733	0.536		mg/Kg	☼	73	39 - 100
Acenaphthylene	0.12	J F2	0.733	0.738		mg/Kg	☼	84	42 - 100
Anthracene	0.15	F2	0.733	0.861		mg/Kg	☼	97	43 - 100
Benzo[a]anthracene	0.59	F2 F1	0.733	1.42	F1	mg/Kg	☼	114	43 - 100
Benzo[a]pyrene	0.61	F2 F1	0.733	1.40	F1	mg/Kg	☼	107	43 - 100
Benzo[b]fluoranthene	0.78	F2 F1	0.733	1.44		mg/Kg	☼	90	40 - 100
Benzo[g,h,i]perylene	0.55	F2 F1	0.733	1.58	F1	mg/Kg	☼	140	41 - 102
Benzo[k]fluoranthene	0.21	F2 F1	0.733	0.943	F1	mg/Kg	☼	101	44 - 100
Chrysene	0.62	F2	0.733	1.31		mg/Kg	☼	94	44 - 100
Dibenz(a,h)anthracene	0.12	J	0.733	0.863		mg/Kg	☼	101	40 - 104
Dibenzofuran	ND		0.733	0.596	J	mg/Kg	☼	81	42 - 100

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: 180-68096-6 MS
Matrix: Solid
Analysis Batch: 216940

Client Sample ID: W2, S1, C 71117
Prep Type: Total/NA
Prep Batch: 216880

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	ND	F2	0.733	0.608	J	mg/Kg	☼	83	19 - 107
Fluoranthene	0.93	F2 F1	0.733	1.94	F1	mg/Kg	☼	138	41 - 104
Fluorene	ND	F2	0.733	0.567		mg/Kg	☼	77	41 - 100
Hexachlorobenzene	ND		0.733	0.568		mg/Kg	☼	78	43 - 100
Indeno[1,2,3-cd]pyrene	0.50	F2 F1	0.733	1.36	F1	mg/Kg	☼	118	41 - 104
2-Methylphenol	ND		0.733	0.501	J	mg/Kg	☼	68	38 - 100
Methylphenol, 3 & 4	ND		0.733	0.441	J	mg/Kg	☼	60	40 - 100
Naphthalene	0.16		0.733	0.674		mg/Kg	☼	71	38 - 100
Pentachlorophenol	ND	F1	1.47	ND	F1	mg/Kg	☼	0	34 - 102
Phenanthrene	0.43	F2 F1	0.733	1.48	F1	mg/Kg	☼	145	41 - 100
Phenol	ND		0.733	0.436	J	mg/Kg	☼	59	36 - 100
Pyrene	0.92	F2 F1	0.733	1.88	F1	mg/Kg	☼	131	42 - 100

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl	*60*		*42 - 100*
2-Fluorophenol (Surr)	*54*		*21 - 107*
Nitrobenzene-d5 (Surr)	*69*		*35 - 109*
Phenol-d5 (Surr)	*54*		*29 - 105*
Terphenyl-d14 (Surr)	*74*		*36 - 113*
2,4,6-Tribromophenol (Surr)	*64*		*20 - 134*

Lab Sample ID: 180-68096-6 MSD
Matrix: Solid
Analysis Batch: 216940

Client Sample ID: W2, S1, C 71117
Prep Type: Total/NA
Prep Batch: 216880

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	ND		0.728	0.462		mg/Kg	☼	63	39 - 100	15	20
Acenaphthylene	0.12	J F2	0.728	0.577	F2	mg/Kg	☼	62	42 - 100	24	20
Anthracene	0.15	F2	0.728	0.632	F2	mg/Kg	☼	66	43 - 100	31	20
Benzo[a]anthracene	0.59	F2 F1	0.728	0.932	F2	mg/Kg	☼	47	43 - 100	41	20
Benzo[a]pyrene	0.61	F2 F1	0.728	0.991	F2	mg/Kg	☼	52	43 - 100	34	20
Benzo[b]fluoranthene	0.78	F2 F1	0.728	1.05	F1 F2	mg/Kg	☼	38	40 - 100	31	20
Benzo[g,h,i]perylene	0.55	F2 F1	0.728	1.14	F2	mg/Kg	☼	80	41 - 102	32	20
Benzo[k]fluoranthene	0.21	F2 F1	0.728	0.625	F2	mg/Kg	☼	58	44 - 100	40	20
Chrysene	0.62	F2	0.728	0.948	F2	mg/Kg	☼	46	44 - 100	32	20
Dibenz(a,h)anthracene	0.12	J	0.728	0.680		mg/Kg	☼	76	40 - 104	24	26
Dibenzofuran	ND		0.728	0.480	J	mg/Kg	☼	66	42 - 100	21	23
1,4-Dioxane	ND	F2	0.728	0.491	J F2	mg/Kg	☼	67	19 - 107	21	20
Fluoranthene	0.93	F2 F1	0.728	1.22	F1 F2	mg/Kg	☼	40	41 - 104	45	20
Fluorene	ND	F2	0.728	0.451	F2	mg/Kg	☼	62	41 - 100	23	21
Hexachlorobenzene	ND		0.728	0.515		mg/Kg	☼	71	43 - 100	10	21
Indeno[1,2,3-cd]pyrene	0.50	F2 F1	0.728	0.989	F2	mg/Kg	☼	67	41 - 104	32	25
2-Methylphenol	ND		0.728	0.409	J	mg/Kg	☼	56	38 - 100	20	20
Methylphenol, 3 & 4	ND		0.728	0.469	J	mg/Kg	☼	64	40 - 100	6	20
Naphthalene	0.16		0.728	0.592		mg/Kg	☼	60	38 - 100	13	20
Pentachlorophenol	ND	F1	1.46	ND	F1	mg/Kg	☼	0	34 - 102	NC	20
Phenanthrene	0.43	F2 F1	0.728	0.893	F2	mg/Kg	☼	64	41 - 100	50	20
Phenol	ND		0.728	0.424	J	mg/Kg	☼	58	36 - 100	3	20

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: 180-68096-6 MSD
Matrix: Solid
Analysis Batch: 216940

Client Sample ID: W2, S1, C 71117
Prep Type: Total/NA
Prep Batch: 216880

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Pyrene	0.92	F2 F1	0.728	1.29	F2	mg/Kg	☼	50	42 - 100	38	21

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl	*54*		*42 - 100*
2-Fluorophenol (Surr)	*60*		*21 - 107*
Nitrobenzene-d5 (Surr)	*68*		*35 - 109*
Phenol-d5 (Surr)	*57*		*29 - 105*
Terphenyl-d14 (Surr)	*71*		*36 - 113*
2,4,6-Tribromophenol (Surr)	*54*		*20 - 134*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 180-216879/1-C
Matrix: Solid
Analysis Batch: 217035

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 216879

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.017	0.0088	mg/Kg		07/13/17 03:34	07/14/17 13:27	1
PCB-1221	ND		0.017	0.0086	mg/Kg		07/13/17 03:34	07/14/17 13:27	1
PCB-1232	ND		0.017	0.0066	mg/Kg		07/13/17 03:34	07/14/17 13:27	1
PCB-1242	ND		0.017	0.013	mg/Kg		07/13/17 03:34	07/14/17 13:27	1
PCB-1248	ND		0.017	0.0080	mg/Kg		07/13/17 03:34	07/14/17 13:27	1
PCB-1254	ND		0.017	0.0073	mg/Kg		07/13/17 03:34	07/14/17 13:27	1
PCB-1260	ND		0.017	0.011	mg/Kg		07/13/17 03:34	07/14/17 13:27	1
PCB-1262	ND		0.017	0.012	mg/Kg		07/13/17 03:34	07/14/17 13:27	1
PCB-1268	ND		0.017	0.0051	mg/Kg		07/13/17 03:34	07/14/17 13:27	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*91*		*23 - 150*	*07/13/17 03:34*	*07/14/17 13:27*	*1*
DCB Decachlorobiphenyl (Surr)	*94*		*23 - 150*	*07/13/17 03:34*	*07/14/17 13:27*	*1*
Tetrachloro-m-xylene (Surr)	*103*		*27 - 138*	*07/13/17 03:34*	*07/14/17 13:27*	*1*
Tetrachloro-m-xylene (Surr)	*98*		*27 - 138*	*07/13/17 03:34*	*07/14/17 13:27*	*1*

Lab Sample ID: LCS 180-216879/2-C
Matrix: Solid
Analysis Batch: 217035

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 216879

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	1.33	1.37		mg/Kg		103	52 - 126
PCB-1260	1.33	1.38		mg/Kg		103	50 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*103*		*23 - 150*
DCB Decachlorobiphenyl (Surr)	*109*		*23 - 150*
Tetrachloro-m-xylene (Surr)	*119*		*27 - 138*
Tetrachloro-m-xylene (Surr)	*112*		*27 - 138*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 180-68096-6 MS
Matrix: Solid
Analysis Batch: 217035

Client Sample ID: W2, S1, C 71117
Prep Type: Total/NA
Prep Batch: 216879

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	ND		1.45	1.53		mg/Kg	☼	106	52 - 126
PCB-1260	0.19		1.45	1.27		mg/Kg	☼	74	50 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*78*		*23 - 150*
DCB Decachlorobiphenyl (Surr)	*89*		*23 - 150*
Tetrachloro-m-xylene (Surr)	*88*		*27 - 138*
Tetrachloro-m-xylene (Surr)	*79*		*27 - 138*

Lab Sample ID: 180-68096-6 MSD
Matrix: Solid
Analysis Batch: 217035

Client Sample ID: W2, S1, C 71117
Prep Type: Total/NA
Prep Batch: 216879

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	ND		1.48	1.69		mg/Kg	☼	114	52 - 126	10	20
PCB-1260	0.19		1.48	1.34		mg/Kg	☼	78	50 - 130	6	21

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*79*		*23 - 150*
DCB Decachlorobiphenyl (Surr)	*85*		*23 - 150*
Tetrachloro-m-xylene (Surr)	*85*		*27 - 138*
Tetrachloro-m-xylene (Surr)	*75*		*27 - 138*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 180-216920/1-A
Matrix: Solid
Analysis Batch: 217205

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 216920

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		1.0	0.44	mg/Kg		07/13/17 09:05	07/14/17 12:41	1
Barium	ND		20	5.4	mg/Kg		07/13/17 09:05	07/14/17 12:41	1
Beryllium	ND		0.40	0.10	mg/Kg		07/13/17 09:05	07/14/17 12:41	1
Cadmium	ND		0.50	0.11	mg/Kg		07/13/17 09:05	07/14/17 12:41	1
Chromium	ND		0.50	0.13	mg/Kg		07/13/17 09:05	07/14/17 12:41	1
Copper	ND		2.5	0.77	mg/Kg		07/13/17 09:05	07/14/17 12:41	1
Lead	ND		1.0	0.33	mg/Kg		07/13/17 09:05	07/14/17 12:41	1
Manganese	ND		1.5	0.41	mg/Kg		07/13/17 09:05	07/14/17 12:41	1
Nickel	ND		4.0	0.90	mg/Kg		07/13/17 09:05	07/14/17 12:41	1
Selenium	ND		1.0	0.40	mg/Kg		07/13/17 09:05	07/14/17 12:41	1
Silver	ND		0.50	0.17	mg/Kg		07/13/17 09:05	07/14/17 12:41	1
Zinc	ND		2.0	1.0	mg/Kg		07/13/17 09:05	07/14/17 12:41	1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCS 180-216920/2-A
Matrix: Solid
Analysis Batch: 217205

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 216920

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	50.0	52.0		mg/Kg		104	80 - 120
Barium	200	202		mg/Kg		101	80 - 120
Beryllium	5.00	5.07		mg/Kg		101	80 - 120
Cadmium	5.00	5.15		mg/Kg		103	80 - 120
Chromium	20.0	19.4		mg/Kg		97	80 - 120
Copper	25.0	24.9		mg/Kg		100	80 - 120
Lead	50.0	49.2		mg/Kg		98	80 - 120
Manganese	50.0	49.6		mg/Kg		99	80 - 120
Nickel	50.0	50.9		mg/Kg		102	80 - 120
Selenium	50.0	50.9		mg/Kg		102	80 - 120
Silver	5.00	4.98		mg/Kg		100	80 - 120
Zinc	50.0	50.0		mg/Kg		100	80 - 120

Lab Sample ID: 180-68096-6 MS
Matrix: Solid
Analysis Batch: 217205

Client Sample ID: W2, S1, C 71117
Prep Type: Total/NA
Prep Batch: 216920

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	6.6		55.1	51.5		mg/Kg	☼	81	75 - 125
Barium	84		221	266		mg/Kg	☼	83	75 - 125
Beryllium	0.35	J	5.51	4.85		mg/Kg	☼	82	75 - 125
Cadmium	0.24	J	5.51	4.69		mg/Kg	☼	81	75 - 125
Chromium	10		22.1	29.0		mg/Kg	☼	85	75 - 125
Copper	26	F1	27.6	45.3	F1	mg/Kg	☼	69	75 - 125
Lead	33		55.1	84.2		mg/Kg	☼	93	75 - 125
Manganese	800	F2	55.1	417	4	mg/Kg	☼	-689	75 - 125
Nickel	19		55.1	65.0		mg/Kg	☼	84	75 - 125
Selenium	0.47	J	55.1	44.7		mg/Kg	☼	80	75 - 125
Silver	ND		5.51	4.48		mg/Kg	☼	81	75 - 125
Zinc	76	F1	55.1	116	F1	mg/Kg	☼	73	75 - 125

Lab Sample ID: 180-68096-6 MSD
Matrix: Solid
Analysis Batch: 217205

Client Sample ID: W2, S1, C 71117
Prep Type: Total/NA
Prep Batch: 216920

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	6.6		53.5	50.1		mg/Kg	☼	81	75 - 125	3	20
Barium	84		214	254		mg/Kg	☼	79	75 - 125	5	20
Beryllium	0.35	J	5.35	4.65		mg/Kg	☼	80	75 - 125	4	20
Cadmium	0.24	J	5.35	4.54		mg/Kg	☼	80	75 - 125	3	20
Chromium	10		21.4	27.3		mg/Kg	☼	79	75 - 125	6	20
Copper	26	F1	26.8	48.5		mg/Kg	☼	84	75 - 125	7	20
Lead	33		53.5	78.0		mg/Kg	☼	84	75 - 125	8	20
Manganese	800	F2	53.5	523	4 F2	mg/Kg	☼	-511	75 - 125	23	20
Nickel	19		53.5	66.5		mg/Kg	☼	89	75 - 125	2	20
Selenium	0.47	J	53.5	42.6		mg/Kg	☼	79	75 - 125	5	20
Silver	ND		5.35	4.40		mg/Kg	☼	82	75 - 125	2	20
Zinc	76	F1	53.5	111	F1	mg/Kg	☼	65	75 - 125	5	20

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 180-217097/1-A
Matrix: Solid
Analysis Batch: 217252

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 217097

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.033	0.0074	mg/Kg		07/14/17 11:17	07/17/17 09:07	1

Lab Sample ID: LCS 180-217097/2-A
Matrix: Solid
Analysis Batch: 217252

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 217097

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.417	0.469		mg/Kg		113	80 - 120

Lab Sample ID: 180-68096-6 MS
Matrix: Solid
Analysis Batch: 217252

Client Sample ID: W2, S1, C 71117
Prep Type: Total/NA
Prep Batch: 217097

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.41	F1	0.180	0.762	F1	mg/Kg	☼	196	80 - 120

Lab Sample ID: 180-68096-6 MSD
Matrix: Solid
Analysis Batch: 217252

Client Sample ID: W2, S1, C 71117
Prep Type: Total/NA
Prep Batch: 217097

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.41	F1	0.183	0.659	F1	mg/Kg	☼	136	80 - 120	15	20

Method: 2540G - SM 2540G

Lab Sample ID: 180-68096-9 DU
Matrix: Solid
Analysis Batch: 216865

Client Sample ID: W2, S2, C 71117
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	11.8		11.9		%		0.4	20
Percent Solids	88.2		88.1		%		0.06	20

Lab Sample ID: 180-68096-18 DU
Matrix: Solid
Analysis Batch: 216870

Client Sample ID: W2, S5 C 71117
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	8.7		9.1		%		5	20
Percent Solids	91.3		90.9		%		0.5	20

Lab Sample ID: 180-68096-28 DU
Matrix: Solid
Analysis Batch: 216870

Client Sample ID: W3, S3, B 71117
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	10.9		9.8		%		11	20
Percent Solids	89.1		90.2		%		1	20

Method: 9014 - Cyanide

Lab Sample ID: MB 180-216972/4-A
Matrix: Solid
Analysis Batch: 217087

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 216972

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.50	0.15	mg/Kg		07/13/17 12:02	07/13/17 15:51	1

Lab Sample ID: HLCS 180-216972/2-A
Matrix: Solid
Analysis Batch: 217087

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 216972

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.250	0.255		mg/Kg		102	90 - 110

Lab Sample ID: LCS 180-216972/3-A
Matrix: Solid
Analysis Batch: 217087

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 216972

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	166	121		mg/Kg		73	38 - 162

Lab Sample ID: LLCS 180-216972/1-A
Matrix: Solid
Analysis Batch: 217087

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 216972

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.0500	0.0471		mg/Kg		94	90 - 110

Lab Sample ID: 180-68096-6 MS
Matrix: Solid
Analysis Batch: 217087

Client Sample ID: W2, S1, C 71117
Prep Type: Total/NA
Prep Batch: 216972

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	ND		5.46	5.54		mg/Kg	☼	101	75 - 125

Lab Sample ID: 180-68096-6 MSD
Matrix: Solid
Analysis Batch: 217087

Client Sample ID: W2, S1, C 71117
Prep Type: Total/NA
Prep Batch: 216972

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cyanide, Total	ND		5.30	5.46		mg/Kg	☼	103	75 - 125	1	20

GC/MS VOA

Analysis Batch: 216893

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68096-1	W1, S5, A 71117	Total/NA	Solid	8260C	216904
180-68096-2	W1, S5, B 71117	Total/NA	Solid	8260C	216904
180-68096-4	W2, S1, A 71117	Total/NA	Solid	8260C	216904
180-68096-5	W2, S1, B 71117	Total/NA	Solid	8260C	216904
180-68096-7	W2, S2, A 71117	Total/NA	Solid	8260C	216904
180-68096-8	W2, S2, B 71117	Total/NA	Solid	8260C	216904
180-68096-10	W2, S3, A 71117	Total/NA	Solid	8260C	216904
180-68096-11	W2, S3, B 71117	Total/NA	Solid	8260C	216904
180-68096-13	W2, S4, A 71117	Total/NA	Solid	8260C	216904
180-68096-14	W2, S4, B 71117	Total/NA	Solid	8260C	216904
180-68096-16	W2, S5 A 71117	Total/NA	Solid	8260C	216904
180-68096-17	W2, S5 B 71117	Total/NA	Solid	8260C	216904
MB 180-216893/9	Method Blank	Total/NA	Solid	8260C	
LCS 180-216893/4	Lab Control Sample	Total/NA	Solid	8260C	
180-68096-4 MS	W2, S1, A 71117	Total/NA	Solid	8260C	216904
180-68096-4 MSD	W2, S1, A 71117	Total/NA	Solid	8260C	216904

Prep Batch: 216904

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68096-1	W1, S5, A 71117	Total/NA	Solid	5035	
180-68096-2	W1, S5, B 71117	Total/NA	Solid	5035	
180-68096-4	W2, S1, A 71117	Total/NA	Solid	5035	
180-68096-5	W2, S1, B 71117	Total/NA	Solid	5035	
180-68096-7	W2, S2, A 71117	Total/NA	Solid	5035	
180-68096-8	W2, S2, B 71117	Total/NA	Solid	5035	
180-68096-10	W2, S3, A 71117	Total/NA	Solid	5035	
180-68096-11	W2, S3, B 71117	Total/NA	Solid	5035	
180-68096-13	W2, S4, A 71117	Total/NA	Solid	5035	
180-68096-14	W2, S4, B 71117	Total/NA	Solid	5035	
180-68096-16	W2, S5 A 71117	Total/NA	Solid	5035	
180-68096-17	W2, S5 B 71117	Total/NA	Solid	5035	
180-68096-4 MS	W2, S1, A 71117	Total/NA	Solid	5035	
180-68096-4 MSD	W2, S1, A 71117	Total/NA	Solid	5035	

Prep Batch: 217050

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68096-34	W3, S5, A 71117	Total/NA	Solid	5035	
180-68096-35	W3, S5, B 71117	Total/NA	Solid	5035	

Analysis Batch: 217056

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68096-34	W3, S5, A 71117	Total/NA	Solid	8260C	217050
180-68096-35	W3, S5, B 71117	Total/NA	Solid	8260C	217050
MB 180-217056/9	Method Blank	Total/NA	Solid	8260C	
LCS 180-217056/4	Lab Control Sample	Total/NA	Solid	8260C	

Analysis Batch: 217186

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68096-19	W3, S1 A 71117	Total/NA	Solid	8260C	217187
180-68096-20	W3, S1 B 71117	Total/NA	Solid	8260C	217187
180-68096-21	DUP-3	Total/NA	Solid	8260C	217187

GC/MS VOA (Continued)

Analysis Batch: 217186 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68096-24	W3, S2, A 71117	Total/NA	Solid	8260C	217187
180-68096-25	W3, S2, B 71117	Total/NA	Solid	8260C	217187
180-68096-27	W3, S3, A 71117	Total/NA	Solid	8260C	217187
180-68096-28	W3, S3, B 71117	Total/NA	Solid	8260C	217187
180-68096-30	W3, S4, A 71117	Total/NA	Solid	8260C	217187
180-68096-31	W3, S4, B 71117	Total/NA	Solid	8260C	217187
180-68096-33	DUP-5	Total/NA	Solid	8260C	217187
MB 180-217186/9	Method Blank	Total/NA	Solid	8260C	
LCS 180-217186/4	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 180-217186/5	Lab Control Sample Dup	Total/NA	Solid	8260C	

Prep Batch: 217187

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68096-19	W3, S1 A 71117	Total/NA	Solid	5035	
180-68096-20	W3, S1 B 71117	Total/NA	Solid	5035	
180-68096-21	DUP-3	Total/NA	Solid	5035	
180-68096-24	W3, S2, A 71117	Total/NA	Solid	5035	
180-68096-25	W3, S2, B 71117	Total/NA	Solid	5035	
180-68096-27	W3, S3, A 71117	Total/NA	Solid	5035	
180-68096-28	W3, S3, B 71117	Total/NA	Solid	5035	
180-68096-30	W3, S4, A 71117	Total/NA	Solid	5035	
180-68096-31	W3, S4, B 71117	Total/NA	Solid	5035	
180-68096-33	DUP-5	Total/NA	Solid	5035	

Analysis Batch: 217200

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68096-37	TRIP BLANK 1	Total/NA	Water	8260C	
180-68096-38	TRIP BLANK 2	Total/NA	Water	8260C	
MB 180-217200/7	Method Blank	Total/NA	Water	8260C	
LCS 180-217200/4	Lab Control Sample	Total/NA	Water	8260C	
LCSD 180-217200/5	Lab Control Sample Dup	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 216880

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68096-3	W1, S5, C 71117	Total/NA	Solid	3541	
180-68096-6	W2, S1, C 71117	Total/NA	Solid	3541	
180-68096-9	W2, S2, C 71117	Total/NA	Solid	3541	
180-68096-12	W2, S3, C 71117	Total/NA	Solid	3541	
180-68096-15	W2, S4, C 71117	Total/NA	Solid	3541	
180-68096-18	W2, S5 C 71117	Total/NA	Solid	3541	
180-68096-22	DUP-4	Total/NA	Solid	3541	
180-68096-23	W3, S1, C 71117	Total/NA	Solid	3541	
180-68096-26	W3, S2, C 71117	Total/NA	Solid	3541	
180-68096-29	W3, S3, C 71117	Total/NA	Solid	3541	
180-68096-32	W3, S4, C 71117	Total/NA	Solid	3541	
180-68096-36	W3, S5, C 71117	Total/NA	Solid	3541	
MB 180-216880/1-A	Method Blank	Total/NA	Solid	3541	
LCS 180-216880/2-A	Lab Control Sample	Total/NA	Solid	3541	

GC/MS Semi VOA (Continued)

Prep Batch: 216880 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68096-6 MS	W2, S1, C 71117	Total/NA	Solid	3541	
180-68096-6 MSD	W2, S1, C 71117	Total/NA	Solid	3541	

Analysis Batch: 216940

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68096-3	W1, S5, C 71117	Total/NA	Solid	8270D LL	216880
180-68096-6	W2, S1, C 71117	Total/NA	Solid	8270D LL	216880
180-68096-9	W2, S2, C 71117	Total/NA	Solid	8270D LL	216880
180-68096-12	W2, S3, C 71117	Total/NA	Solid	8270D LL	216880
180-68096-15	W2, S4, C 71117	Total/NA	Solid	8270D LL	216880
180-68096-18	W2, S5 C 71117	Total/NA	Solid	8270D LL	216880
180-68096-22	DUP-4	Total/NA	Solid	8270D LL	216880
180-68096-23	W3, S1, C 71117	Total/NA	Solid	8270D LL	216880
MB 180-216880/1-A	Method Blank	Total/NA	Solid	8270D LL	216880
LCS 180-216880/2-A	Lab Control Sample	Total/NA	Solid	8270D LL	216880
180-68096-6 MS	W2, S1, C 71117	Total/NA	Solid	8270D LL	216880
180-68096-6 MSD	W2, S1, C 71117	Total/NA	Solid	8270D LL	216880

Analysis Batch: 217242

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68096-26	W3, S2, C 71117	Total/NA	Solid	8270D LL	216880
180-68096-29	W3, S3, C 71117	Total/NA	Solid	8270D LL	216880
180-68096-32	W3, S4, C 71117	Total/NA	Solid	8270D LL	216880
180-68096-36	W3, S5, C 71117	Total/NA	Solid	8270D LL	216880

GC Semi VOA

Prep Batch: 216879

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68096-3	W1, S5, C 71117	Total/NA	Solid	3541	
180-68096-6	W2, S1, C 71117	Total/NA	Solid	3541	
180-68096-9	W2, S2, C 71117	Total/NA	Solid	3541	
180-68096-12	W2, S3, C 71117	Total/NA	Solid	3541	
180-68096-15	W2, S4, C 71117	Total/NA	Solid	3541	
180-68096-18	W2, S5 C 71117	Total/NA	Solid	3541	
180-68096-22	DUP-4	Total/NA	Solid	3541	
180-68096-23	W3, S1, C 71117	Total/NA	Solid	3541	
180-68096-26	W3, S2, C 71117	Total/NA	Solid	3541	
180-68096-29	W3, S3, C 71117	Total/NA	Solid	3541	
180-68096-32	W3, S4, C 71117	Total/NA	Solid	3541	
180-68096-36	W3, S5, C 71117	Total/NA	Solid	3541	
MB 180-216879/1-C	Method Blank	Total/NA	Solid	3541	
LCS 180-216879/2-C	Lab Control Sample	Total/NA	Solid	3541	
180-68096-6 MS	W2, S1, C 71117	Total/NA	Solid	3541	
180-68096-6 MSD	W2, S1, C 71117	Total/NA	Solid	3541	

Cleanup Batch: 216929

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68096-3	W1, S5, C 71117	Total/NA	Solid	3665A	216879
180-68096-6	W2, S1, C 71117	Total/NA	Solid	3665A	216879

GC Semi VOA (Continued)

Cleanup Batch: 216929 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68096-9	W2, S2, C 71117	Total/NA	Solid	3665A	216879
180-68096-12	W2, S3, C 71117	Total/NA	Solid	3665A	216879
180-68096-15	W2, S4, C 71117	Total/NA	Solid	3665A	216879
180-68096-18	W2, S5 C 71117	Total/NA	Solid	3665A	216879
180-68096-22	DUP-4	Total/NA	Solid	3665A	216879
180-68096-23	W3, S1, C 71117	Total/NA	Solid	3665A	216879
180-68096-26	W3, S2, C 71117	Total/NA	Solid	3665A	216879
180-68096-29	W3, S3, C 71117	Total/NA	Solid	3665A	216879
180-68096-32	W3, S4, C 71117	Total/NA	Solid	3665A	216879
180-68096-36	W3, S5, C 71117	Total/NA	Solid	3665A	216879
MB 180-216879/1-C	Method Blank	Total/NA	Solid	3665A	216879
LCS 180-216879/2-C	Lab Control Sample	Total/NA	Solid	3665A	216879
180-68096-6 MS	W2, S1, C 71117	Total/NA	Solid	3665A	216879
180-68096-6 MSD	W2, S1, C 71117	Total/NA	Solid	3665A	216879

Cleanup Batch: 216930

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68096-3	W1, S5, C 71117	Total/NA	Solid	3660B	216929
180-68096-6	W2, S1, C 71117	Total/NA	Solid	3660B	216929
180-68096-9	W2, S2, C 71117	Total/NA	Solid	3660B	216929
180-68096-12	W2, S3, C 71117	Total/NA	Solid	3660B	216929
180-68096-15	W2, S4, C 71117	Total/NA	Solid	3660B	216929
180-68096-18	W2, S5 C 71117	Total/NA	Solid	3660B	216929
180-68096-22	DUP-4	Total/NA	Solid	3660B	216929
180-68096-23	W3, S1, C 71117	Total/NA	Solid	3660B	216929
180-68096-26	W3, S2, C 71117	Total/NA	Solid	3660B	216929
180-68096-29	W3, S3, C 71117	Total/NA	Solid	3660B	216929
180-68096-32	W3, S4, C 71117	Total/NA	Solid	3660B	216929
180-68096-36	W3, S5, C 71117	Total/NA	Solid	3660B	216929
MB 180-216879/1-C	Method Blank	Total/NA	Solid	3660B	216929
LCS 180-216879/2-C	Lab Control Sample	Total/NA	Solid	3660B	216929
180-68096-6 MS	W2, S1, C 71117	Total/NA	Solid	3660B	216929
180-68096-6 MSD	W2, S1, C 71117	Total/NA	Solid	3660B	216929

Analysis Batch: 217035

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68096-3	W1, S5, C 71117	Total/NA	Solid	8082A	216930
180-68096-6	W2, S1, C 71117	Total/NA	Solid	8082A	216930
180-68096-9	W2, S2, C 71117	Total/NA	Solid	8082A	216930
180-68096-12	W2, S3, C 71117	Total/NA	Solid	8082A	216930
180-68096-15	W2, S4, C 71117	Total/NA	Solid	8082A	216930
180-68096-18	W2, S5 C 71117	Total/NA	Solid	8082A	216930
180-68096-22	DUP-4	Total/NA	Solid	8082A	216930
180-68096-23	W3, S1, C 71117	Total/NA	Solid	8082A	216930
180-68096-26	W3, S2, C 71117	Total/NA	Solid	8082A	216930
180-68096-29	W3, S3, C 71117	Total/NA	Solid	8082A	216930
180-68096-32	W3, S4, C 71117	Total/NA	Solid	8082A	216930
180-68096-36	W3, S5, C 71117	Total/NA	Solid	8082A	216930
MB 180-216879/1-C	Method Blank	Total/NA	Solid	8082A	216930
LCS 180-216879/2-C	Lab Control Sample	Total/NA	Solid	8082A	216930
180-68096-6 MS	W2, S1, C 71117	Total/NA	Solid	8082A	216930

GC Semi VOA (Continued)

Analysis Batch: 217035 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68096-6 MSD	W2, S1, C 71117	Total/NA	Solid	8082A	216930

Metals

Prep Batch: 216920

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68096-3	W1, S5, C 71117	Total/NA	Solid	3050B	
180-68096-6	W2, S1, C 71117	Total/NA	Solid	3050B	
180-68096-9	W2, S2, C 71117	Total/NA	Solid	3050B	
180-68096-12	W2, S3, C 71117	Total/NA	Solid	3050B	
180-68096-15	W2, S4, C 71117	Total/NA	Solid	3050B	
180-68096-18	W2, S5 C 71117	Total/NA	Solid	3050B	
180-68096-22	DUP-4	Total/NA	Solid	3050B	
180-68096-23	W3, S1, C 71117	Total/NA	Solid	3050B	
180-68096-26	W3, S2, C 71117	Total/NA	Solid	3050B	
180-68096-29	W3, S3, C 71117	Total/NA	Solid	3050B	
180-68096-32	W3, S4, C 71117	Total/NA	Solid	3050B	
180-68096-36	W3, S5, C 71117	Total/NA	Solid	3050B	
MB 180-216920/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 180-216920/2-A	Lab Control Sample	Total/NA	Solid	3050B	
180-68096-6 MS	W2, S1, C 71117	Total/NA	Solid	3050B	
180-68096-6 MSD	W2, S1, C 71117	Total/NA	Solid	3050B	

Prep Batch: 217097

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68096-3	W1, S5, C 71117	Total/NA	Solid	7471B	
180-68096-6	W2, S1, C 71117	Total/NA	Solid	7471B	
180-68096-9	W2, S2, C 71117	Total/NA	Solid	7471B	
180-68096-12	W2, S3, C 71117	Total/NA	Solid	7471B	
180-68096-15	W2, S4, C 71117	Total/NA	Solid	7471B	
180-68096-18	W2, S5 C 71117	Total/NA	Solid	7471B	
180-68096-22	DUP-4	Total/NA	Solid	7471B	
180-68096-23	W3, S1, C 71117	Total/NA	Solid	7471B	
180-68096-26	W3, S2, C 71117	Total/NA	Solid	7471B	
180-68096-29	W3, S3, C 71117	Total/NA	Solid	7471B	
180-68096-32	W3, S4, C 71117	Total/NA	Solid	7471B	
180-68096-36	W3, S5, C 71117	Total/NA	Solid	7471B	
MB 180-217097/1-A	Method Blank	Total/NA	Solid	7471B	
LCS 180-217097/2-A	Lab Control Sample	Total/NA	Solid	7471B	
180-68096-6 MS	W2, S1, C 71117	Total/NA	Solid	7471B	
180-68096-6 MSD	W2, S1, C 71117	Total/NA	Solid	7471B	

Analysis Batch: 217205

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68096-3	W1, S5, C 71117	Total/NA	Solid	6010C	216920
180-68096-6	W2, S1, C 71117	Total/NA	Solid	6010C	216920
180-68096-9	W2, S2, C 71117	Total/NA	Solid	6010C	216920
180-68096-12	W2, S3, C 71117	Total/NA	Solid	6010C	216920
180-68096-15	W2, S4, C 71117	Total/NA	Solid	6010C	216920
180-68096-18	W2, S5 C 71117	Total/NA	Solid	6010C	216920

Metals (Continued)

Analysis Batch: 217205 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68096-22	DUP-4	Total/NA	Solid	6010C	216920
180-68096-23	W3, S1, C 71117	Total/NA	Solid	6010C	216920
180-68096-26	W3, S2, C 71117	Total/NA	Solid	6010C	216920
180-68096-29	W3, S3, C 71117	Total/NA	Solid	6010C	216920
180-68096-32	W3, S4, C 71117	Total/NA	Solid	6010C	216920
180-68096-36	W3, S5, C 71117	Total/NA	Solid	6010C	216920
MB 180-216920/1-A	Method Blank	Total/NA	Solid	6010C	216920
LCS 180-216920/2-A	Lab Control Sample	Total/NA	Solid	6010C	216920
180-68096-6 MS	W2, S1, C 71117	Total/NA	Solid	6010C	216920
180-68096-6 MSD	W2, S1, C 71117	Total/NA	Solid	6010C	216920

Analysis Batch: 217252

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68096-3	W1, S5, C 71117	Total/NA	Solid	7471B	217097
180-68096-6	W2, S1, C 71117	Total/NA	Solid	7471B	217097
180-68096-9	W2, S2, C 71117	Total/NA	Solid	7471B	217097
180-68096-12	W2, S3, C 71117	Total/NA	Solid	7471B	217097
180-68096-15	W2, S4, C 71117	Total/NA	Solid	7471B	217097
180-68096-18	W2, S5 C 71117	Total/NA	Solid	7471B	217097
180-68096-22	DUP-4	Total/NA	Solid	7471B	217097
180-68096-23	W3, S1, C 71117	Total/NA	Solid	7471B	217097
180-68096-26	W3, S2, C 71117	Total/NA	Solid	7471B	217097
180-68096-29	W3, S3, C 71117	Total/NA	Solid	7471B	217097
180-68096-32	W3, S4, C 71117	Total/NA	Solid	7471B	217097
180-68096-36	W3, S5, C 71117	Total/NA	Solid	7471B	217097
MB 180-217097/1-A	Method Blank	Total/NA	Solid	7471B	217097
LCS 180-217097/2-A	Lab Control Sample	Total/NA	Solid	7471B	217097
180-68096-6 MS	W2, S1, C 71117	Total/NA	Solid	7471B	217097
180-68096-6 MSD	W2, S1, C 71117	Total/NA	Solid	7471B	217097

General Chemistry

Analysis Batch: 216865

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68096-1	W1, S5, A 71117	Total/NA	Solid	2540G	
180-68096-2	W1, S5, B 71117	Total/NA	Solid	2540G	
180-68096-3	W1, S5, C 71117	Total/NA	Solid	2540G	
180-68096-4	W2, S1, A 71117	Total/NA	Solid	2540G	
180-68096-5	W2, S1, B 71117	Total/NA	Solid	2540G	
180-68096-6	W2, S1, C 71117	Total/NA	Solid	2540G	
180-68096-7	W2, S2, A 71117	Total/NA	Solid	2540G	
180-68096-8	W2, S2, B 71117	Total/NA	Solid	2540G	
180-68096-9	W2, S2, C 71117	Total/NA	Solid	2540G	
180-68096-10	W2, S3, A 71117	Total/NA	Solid	2540G	
180-68096-11	W2, S3, B 71117	Total/NA	Solid	2540G	
180-68096-12	W2, S3, C 71117	Total/NA	Solid	2540G	
180-68096-13	W2, S4, A 71117	Total/NA	Solid	2540G	
180-68096-14	W2, S4, B 71117	Total/NA	Solid	2540G	
180-68096-15	W2, S4, C 71117	Total/NA	Solid	2540G	
180-68096-16	W2, S5 A 71117	Total/NA	Solid	2540G	

General Chemistry (Continued)

Analysis Batch: 216865 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68096-17	W2, S5 B 71117	Total/NA	Solid	2540G	
180-68096-9 DU	W2, S2, C 71117	Total/NA	Solid	2540G	

Analysis Batch: 216870

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68096-18	W2, S5 C 71117	Total/NA	Solid	2540G	
180-68096-19	W3, S1 A 71117	Total/NA	Solid	2540G	
180-68096-20	W3, S1 B 71117	Total/NA	Solid	2540G	
180-68096-21	DUP-3	Total/NA	Solid	2540G	
180-68096-22	DUP-4	Total/NA	Solid	2540G	
180-68096-23	W3, S1, C 71117	Total/NA	Solid	2540G	
180-68096-24	W3, S2, A 71117	Total/NA	Solid	2540G	
180-68096-25	W3, S2, B 71117	Total/NA	Solid	2540G	
180-68096-26	W3, S2, C 71117	Total/NA	Solid	2540G	
180-68096-27	W3, S3, A 71117	Total/NA	Solid	2540G	
180-68096-28	W3, S3, B 71117	Total/NA	Solid	2540G	
180-68096-29	W3, S3, C 71117	Total/NA	Solid	2540G	
180-68096-30	W3, S4, A 71117	Total/NA	Solid	2540G	
180-68096-31	W3, S4, B 71117	Total/NA	Solid	2540G	
180-68096-32	W3, S4, C 71117	Total/NA	Solid	2540G	
180-68096-33	DUP-5	Total/NA	Solid	2540G	
180-68096-34	W3, S5, A 71117	Total/NA	Solid	2540G	
180-68096-35	W3, S5, B 71117	Total/NA	Solid	2540G	
180-68096-36	W3, S5, C 71117	Total/NA	Solid	2540G	
180-68096-18 DU	W2, S5 C 71117	Total/NA	Solid	2540G	
180-68096-28 DU	W3, S3, B 71117	Total/NA	Solid	2540G	

Prep Batch: 216972

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68096-3	W1, S5, C 71117	Total/NA	Solid	9010C	
180-68096-6	W2, S1, C 71117	Total/NA	Solid	9010C	
180-68096-9	W2, S2, C 71117	Total/NA	Solid	9010C	
180-68096-12	W2, S3, C 71117	Total/NA	Solid	9010C	
180-68096-15	W2, S4, C 71117	Total/NA	Solid	9010C	
180-68096-18	W2, S5 C 71117	Total/NA	Solid	9010C	
180-68096-22	DUP-4	Total/NA	Solid	9010C	
180-68096-23	W3, S1, C 71117	Total/NA	Solid	9010C	
180-68096-26	W3, S2, C 71117	Total/NA	Solid	9010C	
180-68096-29	W3, S3, C 71117	Total/NA	Solid	9010C	
180-68096-32	W3, S4, C 71117	Total/NA	Solid	9010C	
180-68096-36	W3, S5, C 71117	Total/NA	Solid	9010C	
MB 180-216972/4-A	Method Blank	Total/NA	Solid	9010C	
HLCS 180-216972/2-A	Lab Control Sample	Total/NA	Solid	9010C	
LCS 180-216972/3-A	Lab Control Sample	Total/NA	Solid	9010C	
LLCS 180-216972/1-A	Lab Control Sample	Total/NA	Solid	9010C	
180-68096-6 MS	W2, S1, C 71117	Total/NA	Solid	9010C	
180-68096-6 MSD	W2, S1, C 71117	Total/NA	Solid	9010C	

Analysis Batch: 217087

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68096-3	W1, S5, C 71117	Total/NA	Solid	9014	216972

General Chemistry (Continued)

Analysis Batch: 217087 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68096-6	W2, S1, C 71117	Total/NA	Solid	9014	216972
180-68096-9	W2, S2, C 71117	Total/NA	Solid	9014	216972
180-68096-12	W2, S3, C 71117	Total/NA	Solid	9014	216972
180-68096-15	W2, S4, C 71117	Total/NA	Solid	9014	216972
180-68096-18	W2, S5 C 71117	Total/NA	Solid	9014	216972
180-68096-22	DUP-4	Total/NA	Solid	9014	216972
180-68096-23	W3, S1, C 71117	Total/NA	Solid	9014	216972
180-68096-26	W3, S2, C 71117	Total/NA	Solid	9014	216972
180-68096-29	W3, S3, C 71117	Total/NA	Solid	9014	216972
180-68096-32	W3, S4, C 71117	Total/NA	Solid	9014	216972
180-68096-36	W3, S5, C 71117	Total/NA	Solid	9014	216972
MB 180-216972/4-A	Method Blank	Total/NA	Solid	9014	216972
HLCS 180-216972/2-A	Lab Control Sample	Total/NA	Solid	9014	216972
LCS 180-216972/3-A	Lab Control Sample	Total/NA	Solid	9014	216972
LLCS 180-216972/1-A	Lab Control Sample	Total/NA	Solid	9014	216972
180-68096-6 MS	W2, S1, C 71117	Total/NA	Solid	9014	216972
180-68096-6 MSD	W2, S1, C 71117	Total/NA	Solid	9014	216972

TestAmerica Pittsburgh
301 Alpha Drive RIDC Park
Pittsburgh, PA 15238
Phone (412) 963-7058 Fax (412) 963-2468

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

180-68096 Chain of Custody

Client Information	Sampler: AFT AR	Lab PM: Dunlap, David A	No: -38453-8381.1
Client Contact: Ashwin Ranna / Aron Krasnopoler	Phone: 412 5524758	E-Mail: david.dunlap@testamer	Page: Page 1 of 4
Company: Geosyntec Consultants, Inc.			Job #:
Address: Penn Center West One, Suite 402 1 Penn Center West Drive	Due Date Requested:		
City: Pittsburgh	TAT Requested (days): 10 Days 3 day at as per Aron Krasnopoler 7/12/17		
State, Zip: PA, 15276	PO #: MN0832B		
Phone:	WO #:		
Email: aranna@geosyntec.com akrasnopoler@geosyntec.com	Project #: 18013464		
Project Name: Former Sperry Remington Site - North IRM	SSOW#:		
Site:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - VOA-Select List	6010C, 7471B, 9014	8082A, 8270D_LL	8260C_LL - VOA-Select List	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	A		
W1,SS,A 7/11/17	7/11/2017	1015	G	Solid	N	N	X				4	
W1,SS,B 7/11/17	7/11/2017	1020	G	Solid	N	N	X				4	
W1,SS,C 7/11/17	7/11/2017	1025	C	Solid	N	N		X	X		2	
W2,S1,A 7/11/17	7/11/2017	1045	G	Solid	N	Y	X				12	Perform MS/MSD
W2,S1,B 7/11/17	7/11/2017	1050	G	Solid	N	N	X				4	
W2,S1,C 7/11/17	7/11/2017	1055	C	Solid	N	Y		X	X		6	Perform MS/MSD
W2,S2,A 7/11/17	7/11/2017	1115	G	Solid	N	N	X				4	
W2,S2,B 7/11/17	7/11/2017	1120	G	Solid	N	N	X				4	
W2,S2,C 7/11/17	7/11/2017	1125	C	Solid	N	N		X	X		2	
W2,S3,A 7/11/17	7/11/2017	1145	G	Solid	N	N	X				4	
W2,S3,B 7/11/17	7/11/2017	1150	G	Solid	N	N	X				4	

Run
Run

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Alex Ambrosino	7.11.2017 1645	Geosyntec	Dellie Watson	7-12-17 9:10	TAL
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

7/18/2017

TestAmerica Pittsburgh
301 Alpha Drive RIDC Park
Pittsburgh, PA 15238
Phone (412) 963-7058 Fax (412) 963-2468

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Alex Ambrosino	Lab PM: Dunlap, David A	Carrier Tracking No(s):	COC No: 180-38453-8381.2
Client Contact: Ashwin Ranna / Aron Krasnopoler	Phone: 4125524758	E-Mail: david.dunlap@testamericainc.com		Page: Page 2 of 4
Company: Geosyntec Consultants, Inc.				Job #:
Address: Penn Center West One, Suite 402 1 Penn Center West Drive	Due Date Requested:			
City: Pittsburgh	TAT Requested (days): 1 Day - 3 days after Krasnopoler DUE 7/12/17			
State, Zip: PA, 15276	PO #: MN0832B			
Phone:	WO #:			
Email: aranna@geosyntec.com akrasnopoler@geosyntec.com	Project #: 18013464			
Project Name: Former Sperry Remington Site - North IRM	SSOW#:			
Site:				

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - VOA-Select List	6010C, 7471B, 9014	8082A, 8270D_LL	8260C_LL - VOA-Select List	Total Number of containers	Special Instructions/Note:
Preservation Code:							N	N	N	A		
W2,S3,C 71117	7/11/2017	1155	C	Solid	N	N		X	X		2	Rush
W2,S4,A 71117	7.11.2017	1215	G	Solid	N	N	X				4	
W2,S4,B 71117	7.11.2017	1220	G	Solid	N	N	X				4	
W2,S4,C 71117	7.11.2017	1225	C	Solid	N	N		X	X		2	
W2,S5,A 71117	7.11.2017	1245	G	Solid	N	N	X				4	
W2,S5,B 71117	7.11.2017	1250	G	Solid	N	N	X				4	
W2,S5,C 71117	7.11.2017	1255	C	Solid	N	N		X	X		2	
W3,S1,A 71117	7.11.2017	1315	G	Solid	N	N	X				4	
W3,S2,B 71117	7.11.2017	1320	G	Solid	N	N	X				4	
DUP-3	7.11.2017	—	G	Solid	N	N	X				4	
DUP-4	7.11.2017	—	C	Solid	N	N		X	X		2	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Alex Ambrosino	7.11.2017 1845	Geosyntec	Ashley Walton	7-12-17 9:10	TAT
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

TestAmerica Pittsburgh
301 Alpha Drive RIDC Park
Pittsburgh, PA 15238
Phone (412) 963-7058 Fax (412) 963-2468

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: AA+AK	Lab PM: Dunlap, David A	Carrier Tracking No(s):	COC No: 180-38453-8381.3
Client Contact: Ashwin Ranna Aron Krasnopoler	Phone: 4125524758	E-Mail: david.dunlap@testamericainc.com		Page: Page 3 of 4
Company: Geosyntec Consultants, Inc.				Job #:
Address: Penn Center West One, Suite 402 1 Penn Center West Drive	Due Date Requested:	Analysis Requested		
City: Pittsburgh	TAT Requested (days): 1 Day, 3 day upon Aron Krasnopoler 7/12/17			
State, Zip: PA, 15276	PO #: MN0832B			
Phone:	WO #:			
Email: aranna@geosyntec.com akrasnopoler@geosyntec.com	Project #: 18013464			
Project Name: Former Sperry Remington Site - North IRM	SSOW#:			
Site:				

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - VOA-Select List	6010C, 7471B, 9014	8082A, 8270D_LL	8260C_LL - VOA-Select List	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	A		
W3,S1,C 71117	7.11.2017	1325	C	Solid	N	N		X	X		2	
W3,S2,A 71117	7.11.2017	1345	G	Solid	N	N	X				4	
W3,S2,B 71117	7.11.2017	1350	G	Solid	N	N	X				4	
W3,S2,C 71117	7.11.2017	1355	C	Solid	N	N		X	X		2	
W3,S3,A 71117	7.11.2017	1415	G	Solid	N	N	X				4	
W3,S3,B 71117	7.11.2017	1420	G	Solid	N	N	X				4	
W3,S3,C 71117	7.11.2017	1425	C	Solid	N	N		X	X		2	
W3,S4,A 71117	7.11.2017	1445	G	Solid	N	N	X				4	
W3,S4,B 71117	7.11.2017	1450	G	Solid	N	N	X				4	
W3,S4,C 71117	7.11.2017	1455	C	Solid	N	N		X	X		2	
DUP-5	7.11.2017	—	G	Solid	N	N	X				4	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Alex Ambrosino	7.11.2017 / 1845	Geosyntec	Dallas Watson	7-12-17 9:10	TAP
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

TestAmerica Pittsburgh
301 Alpha Drive RIDC Park
Pittsburgh, PA 15238
Phone (412) 963-7058 Fax (412) 963-2468

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: AA, AR	Lab PM: Dunlap, David A	Carrier Tracking No(s):	COC No: 180-38453-8381.4
Client Contact: Ashwin Ranna from kraspopoler	Phone: 412 5524758	E-Mail: david.dunlap@testamericainc.com		Page: Page 4 of 4
Company: Geosyntec Consultants, Inc.				Job #:

Address: Penn Center West One, Suite 402 1 Penn Center West Drive	Due Date Requested:	Analysis Requested	Preservation Codes:
City: Pittsburgh	TAT Requested (days): Pay 3 day per Kraspopoler PO 7/12/17		A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
State, Zip: PA, 15276			
Phone:	PO #: MN0832B		
Email: aranna@geosyntec.com akraspopler@geosyntec.com	WO #:		Other:
Project Name: Former Sperry Remington Site - North IRM	Project #: 18013464		
Site:	SSOW#:		

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - VOA-Select List	6010C, 7471B, 9014	8082A, 8270D_LL	8260C_LL - VOA-Select List	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	A		
W3,SS, A 7117	7.11.2017	1515	G	Solid	N	N	X				4	Rush
W3,SS, B 7117	7.11.2017	1520	G	Solid	N	N	X				4	
W3,SS, C 7117	7.11.2017	1525	C	Solid	N	N		X	X		2	
Trip Blank	—	—	—	Solid	—					X	2	
Trip Blank	—	—	—	Solid	—					X	2	
				Solid								
				Solid								
				Solid								
				Solid								
				Solid								
				Solid								

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Alex Ambrosino	7.11.2017 1845	Geosyntec	Phillie Watson	7.12.17 9:10	TAP
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 180-68096-1

Login Number: 68096
List Number: 1
Creator: Dunlap, David A

List Source: TestAmerica Pittsburgh

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	False	trip blank
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Geosyntec consultants

180A Market Place Blvd.
Knoxville, TN 37922
PH 865.330.0037
www.geosyntec.com

Memorandum

Date:	17 July 2017
To:	Aron Krasnopoler
From:	Mary Tyler
CC:	J. Caprio
Subject:	**Stage 2A Data Validation - Level II Data Deliverable, TestAmerica Job ID 180-68037-1**

SITE: Former Sperry Remington Site-North IRM

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of twelve solid samples and two field duplicate samples, collected July 10, 2017, as part of the Former Sperry Remington Site-North IRM project. The analyses were performed at TestAmerica Laboratories, Inc., Pittsburgh, Pennsylvania. The samples were analyzed for the following tests:

- Volatile Organic Compounds (VOCs) by EPA Methods 5035/8260C
- Semivolatile Organic Compounds (SVOCs) by EPA Methods 3541/8270D
- Polychlorinated Biphenyls (PCBs) by EPA Methods 3541/8082A
- Metals by EPA Methods 3050B/6010C
- Mercury by EPA Method 7471B
- Total Cyanide by EPA Method 9014
- Total Solids by Standard Method 2540G

EXECUTIVE SUMMARY

The samples were handled, prepared, and measured in the same manner under similar prescribed conditions.

Overall, based on this Stage 2A data validation covering the quality control (QC) parameters listed below, the data as qualified are usable for meeting project objectives. Qualified data should be used within the limitations of the qualification.

The data were validated the Quality Assurance Project Plan (QAPP) for Former Sperry Remington Facility Industrial Outfall Site, Elmira, New York, NYSDEC Site I.D. # 808043, NY09-2480-04,

July 7, 2010, Revised November 11, 2010, USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review, January 2017 (EPA 540-R-2017-002), USEPA Contract Laboratory Program National Functional Guidelines for Superfund Inorganic Methods Data Review, January 2017 (EPA 540-R-2017-001), the pertinent methods referenced by the laboratory report and professional and technical judgment.

The following samples were analyzed and validated at Stage 2A level in the data sets:

Laboratory ID	Client ID
180-68037-1	DUP2
180-68037-2	WINDROW1, SEC 3, C
180-68037-3	WINDROW1, SEC 3, B
180-68037-4	WINDROW1, SEC 4, C
180-68037-5	DUP1
180-68037-6	WINDROW1, SEC 3, A
180-68037-7	WINDROW1, SEC 4, B

Laboratory ID	Client ID
180-68037-8	WINDROW1, SEC 2, C
180-68037-9	WINDROW1, SEC 2, A
180-68037-10	WINDROW1, SEC 1, A
180-68037-11	WINDROW1, SEC 1, C
180-68037-12	WINDROW1, SEC 4, A
180-68037-13	WINDROW1, SEC 2, B
180-68037-14	WINDROW1, SEC 1, B

The samples were received at the laboratory at 1.9-2.3^{o}C, within the criteria of 0-6°C. No sample preservation issues were noted by the laboratory.

The following issues were noted with the chain of custody (COC):

- Incorrect error corrections were observed on the COC, instead of the proper procedure of a single strike through, correction, and initials and date of person making the corrections.
- No collection times were listed on the COC for the field duplicate samples; the laboratory assigned collection times of 00:00.
- There was no relinquishing signature on the first page of the COC and no relinquishing documentation (no signature, date or time) on the second page of the COC.
- The laboratory edited the analyses requested for field duplicate DUP1; the analyses were crossed off with the exception of the VOCs.
- A trip blank was listed on the COC for VOC analysis, but was not reported in this laboratory report.

The solids data, used to report the samples on a dry weight basis, were not validated.

1.0 VOLATILE ORGANIC COMPOUNDS

The samples were analyzed for VOCs by EPA methods 5035/8260B.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Surrogates
- ✓ Trip Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

1.1 Overall Assessment

The VOC data reported in this package are considered usable for meeting project objectives. The analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this package is 100%.

The narrative indicated that the continuing calibration verification (CCV) percent difference (%D) for vinyl chloride was high, outside method specified acceptance criteria. The %D was 20.1%; the method specified acceptance criteria is 20%D. Therefore, no qualifications were applied to the data.

1.2 Holding Times

The holding time for the VOC analysis of a preserved solid sample collected as a terracore is 48 hours until laboratory receipt and 14 days from sample collection to analysis. The holding times were met for the sample analyses.

1.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 216673). VOCs were not detected in the method blank above the method detection limits (MDLs).

1.4 Matrix Spike/Matrix Spike Duplicate (MS/MSD)

MS/MSD pairs were not reported.

1.5 Laboratory Control Sample (LCS)

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS/laboratory control sample duplicate (LCSD) pair was reported. The recovery and relative percent difference (RPD) results were within the laboratory specified acceptance criteria.

1.6 Surrogates

Acceptable surrogate recoveries were reported.

1.7 Trip Blank

A trip blank accompanied the samples, but was not reported in this laboratory report. Since the VOC results in the data set were non-detect, the trip blank results have no effect on the results.

1.8 Field Duplicate

Two field duplicates were collected with the sample set. One field duplicate was analyzed for VOCs, DUP1. Acceptable precision [RPD <40% for results greater than five times the reporting limit (RL) and ±2 times the RL for results less than five times the RL] was demonstrated between the field duplicates and the original sample, Windrow 1,Sec 3, A. The RPDs between the results were 0%.

1.9 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were not reported.

1.10 Electronic Data Deliverable (EDD) Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

2.0 SEMIVOLATILE ORGANIC COMPOUNDS

The samples were analyzed for SVOCs by EPA methods 3541/8270D.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

✓ Overall Assessment
✓ Holding Times
✓ Method Blank
⊗ Matrix Spike/Matrix Spike Duplicate
✓ Laboratory Control Sample
✓ Surrogates
⊗ Field Duplicate
✓ Sensitivity
✓ Electronic Data Deliverable Review

2.1 Overall Assessment

The SVOC data reported in this package are considered usable for meeting project objectives. The analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this package is 100%.

2.2 Holding Times

The holding times for SVOC analysis of solid samples are 14 days from sample collection to extraction and 40 days from extraction to analysis. The holding times were met for the sample analyses.

2.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 216675). SVOCs were not detected in the method blank above the MDLs.

2.4 Matrix Spike/Matrix Spike Duplicate

MS/MSD pairs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). A sample set specific MS/MSD pair was reported, using sample DUP2. The recovery and RPD results were within the laboratory specified acceptance criteria, with the following exceptions.

One of both of the recoveries of the following compounds were high and outside the laboratory specified acceptance criteria: Anthracene, benzo[k]fluoranthene, dibenzofuran, fluoranthene, phenanthrene and pyrene. Since dibenzofuran was not detected in sample DUP2, no qualifications were applied to the data. However, based on professional and technical judgment, the concentrations of anthracene, benzo[k]fluoranthene, fluoranthene, phenanthrene and pyrene in both sample DUP2 and its associated original sample, WINDROW1, SEC 3, C, were J qualified as estimated.

Sample	Compound	Laboratory Result (mg/kg)	Laboratory Flag	Validation Result (mg/kg)	Validation Qualifier*	Reason Code**
DUP2	Anthracene	0.22	F1	0.22	J	4
DUP2	Benzo[k]fluoranthene	0.23	F1	0.23	J	4
DUP2	Fluoranthene	0.45	F1	0.45	J	4
DUP2	Phenanthrene	0.21	F1	0.21	J	4
DUP2	Pyrene	0.81	F1	0.81	J	4
WINDROW1, SEC 3, C	Anthracene	0.18	NA	0.18	J	4
WINDROW1, SEC 3, C	Benzo[k]fluoranthene	0.23	NA	0.23	J	4
WINDROW1, SEC 3, C	Fluoranthene	0.64	NA	0.64	J	4
WINDROW1, SEC 3, C	Phenanthrene	0.39	NA	0.39	J	4
WINDROW1, SEC 3, C	Pyrene	0.82	NA	0.82	J	4

mg/kg-milligrams per kilogram
F1-laboratory flag indicating the MS and/or MSD recovery is outside acceptance limits
NA-not applicable
* Validation qualifiers are defined in Attachment 1 at the end of this report
**Reason codes are defined in Attachment 2 at the end of this report

2.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery results were within the laboratory specified acceptance criteria.

2.6 Surrogates

Acceptable surrogate recoveries were reported.

2.7 Field Duplicate

Two field duplicates were collected with the sample set. One field duplicate was analyzed for SVOCs, DUP2. Acceptable precision [RPD <40% for results greater than five times the RL and ±2 times the RL for results less than five times the RL] was demonstrated between the field duplicates and the original sample, Windrow 1,Sec 3, C, with the following exceptions.

The field duplicate acceptance criteria were not met for acenaphthylene and phenanthrene. Therefore, the concentrations of acenaphthylene and phenanthrene in the field duplicate pair were J qualified as estimated. The qualifications due to the field duplicate results are summarized below.

Sample	Compound	Laboratory Result (mg/kg)	Laboratory Flag	RPD	Validation Result (mg/kg)	Validation Qualifier	Reason Code
DUP2	Acenaphthylene	0.46	NA	59	0.46	J	7
WINDROW1, SEC 3, C	Acenaphthylene	0.25	NA		0.25	J	7
DUP2	Phenanthrene	0.21	F1	60	0.21	J	7
WINDROW1, SEC 3, C	Phenanthrene	0.39	NA		0.39	J	7

mg/kg-milligrams per kilogram
F1-laboratory flag indicating the MS and/or MSD recovery is outside acceptance limits
NA-not applicable

2.8 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were reported due to the dilutions analyzed.

2.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II reports and the EDDs.

3.0 POLYCHLORINATED BIPHENYLS

The samples were analyzed for PCBs by EPA Methods 3541/8082A.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

⊗ Overall Assessment
✓ Holding Times
✓ Method Blank
✓ Matrix Spike/Matrix Spike Duplicate
✓ Laboratory Control Sample
✓ Surrogates
✓ Field Duplicate
✓ Sensitivity
✓ Electronic Data Deliverable Review

3.1 Overall Assessment

The PCB data reported in this package are considered usable for meeting project objectives. The analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this sample set is 100%.

The samples contain mixtures of PCBs 1248, 1254 and 1260. There are peaks in 1248 and 1254 that are in both of these PCBs and peaks in 1254 and 1260 that are in both of these PCBs; therefore, there is contribution between PCBs when more than one PCB is detected in a sample. Therefore, based on professional and technical judgment, the concentrations of PCBs PCBs 1248, 1254 and 1260 in these samples were J qualified as estimated.

Sample ID	Compound	Laboratory Concentration (mg/kg)	Laboratory Flag	Validation Concentration (mg/kg)	Validation Qualifier	Reason Code
DUP2	PCB-1248	1.1	NA	1.1	J	13
DUP2	PCB-1254	0.70	NA	0.70	J	13
DUP2	PCB-1260	0.17	NA	0.17	J	13
WINDROW1, SEC 1, C	PCB-1248	1.3	NA	1.3	J	13
WINDROW1, SEC 1, C	PCB-1254	0.82	NA	0.82	J	13
WINDROW1, SEC 1, C	PCB-1260	0.22	NA	0.22	J	13
WINDROW1, SEC 2, C	PCB-1248	1.1	NA	1.1	J	13

Sample ID	Compound	Laboratory Concentration (mg/kg)	Laboratory Flag	Validation Concentration (mg/kg)	Validation Qualifier	Reason Code
WINDROW1, SEC 2, C	PCB-1254	0.68	NA	0.68	J	13
WINDROW1, SEC 2, C	PCB-1260	0.18	NA	0.18	J	13
WINDROW1, SEC 3, C	PCB-1248	1.0	NA	1.0	J	13
WINDROW1, SEC 3, C	PCB-1254	0.67	NA	0.67	J	13
WINDROW1, SEC 3, C	PCB-1260	0.17	NA	0.17	J	13
WINDROW1, SEC 4, C	PCB-1248	0.91	NA	0.91	J	13
WINDROW1, SEC 4, C	PCB-1254	0.60	NA	0.60	J	13
WINDROW1, SEC 4, C	PCB-1260	0.17	NA	0.17	J	13

mg/kg-milligrams per kilogram
NA-not applicable

3.2 Holding Times

The holding times for the PCB analysis of solids are 14 days from sample collection to extraction and 40 days from extraction to analysis. The holding times were met for the sample analyses.

3.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 216674). PCBs were not detected in the method blank above the MDLs.

3.4 Matrix Spike/Matrix Spike Duplicate

MS/MSD pairs were not reported.

3.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery results were within the laboratory specified acceptance criteria.

3.6 Surrogates

Acceptable surrogate recoveries were reported.

3.7 Field Duplicate

Two field duplicates were collected with the sample set. One field duplicate was analyzed for PCBs, DUP2. Acceptable precision [RPD <40% for results greater than five times the RL and ±2 times the RL for results less than five times the RL] was demonstrated between the field duplicates and the original sample, Windrow 1,Sec 3, C.

3.8 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were not reported.

3.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No other discrepancies were identified between the level II report and the EDD.

5.0 METALS

The samples were analyzed for metals by EPA methods 3050B/6010C (Mercury evaluated separately in Section 6.0, below).

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

5.1 Overall Assessment

The metals data reported in this package are considered usable for meeting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this package is 100%.

5.2 Holding Times

The holding time for metals analysis of solid samples is 180 days from sample collection to analysis. The holding times were met for the sample analyses.

5.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 216814). The metals were not detected in the method blank above the MDLs.

5.4 Matrix Spike/Matrix Spike Duplicate

MS/MSD pairs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). A sample set specific MS/MSD pair was reported, using sample DUP2. The recovery and RPD results were within the laboratory specified acceptance criteria.

5.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery results were within the laboratory specified acceptance criteria.

5.6 Laboratory Duplicate

A laboratory duplicate was not reported with the sample set.

5.7 Field Duplicate

Two field duplicates were collected with the sample set. One field duplicate was analyzed for metals, DUP2. Acceptable precision [RPD <40% for results greater than five times the RL and ±2 times the RL for results less than five times the RL] was demonstrated between the field duplicates and the original sample, Windrow 1,Sec 3, C.

5.8 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were not reported.

5.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

6.0 MERCURY

The samples were analyzed for mercury by EPA methods 7471B.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

✓ Overall Assessment
✓ Holding Times
✓ Method Blank
✓ Matrix Spike/Matrix Spike Duplicate
✓ Laboratory Control Sample
✓ Laboratory Duplicate
⊗ Field Duplicate
✓ Sensitivity
✓ Electronic Data Deliverable Review

6.1 Overall Assessment

The mercury data reported in this package are considered usable for meeting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this package is 100%.

6.2 Holding Times

The holding time for the mercury analysis of solid samples is 28 days from sample collection to analysis. The holding times were met for the sample analyses.

6.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 216844). Mercury was not detected in the method blank above the MDL.

6.4 Matrix Spike/Matrix Spike Duplicate

MS/MSD pairs were not reported.

6.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery result was within the laboratory specified acceptance criteria.

6.6 Laboratory Duplicate

A laboratory duplicate was not reported.

6.7 Field Duplicate

Two field duplicates were collected with the sample set. One field duplicate was analyzed for mercury, DUP2. Acceptable precision [RPD <40% for results greater than five times the RL and ±2 times the RL for results less than five times the RL] was not demonstrated between the field duplicates and the original sample, Windrow 1,Sec 3, C. The RPD was high and outside the field duplicate acceptance criteria. Therefore, the concentrations of mercury in the field duplicate pair were J qualified as estimated.

Sample	Compound	Laboratory Result (mg/kg)	Laboratory Flag	RPD	Validation Result (mg/kg)	Validation Qualifier	Reason Code
DUP2	Mercury	0.26	NA	53	0.26	J	7
WINDROW1, SEC 3, C	Mercury	0.45	NA		0.45	J	7

mg/kg-milligrams per kilogram
NA-not applicable

6.8 Sensitivity

The samples were reported to the MDL. Elevated non-detect results were not reported.

6.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

7.0 TOTAL CYANIDE

The samples were analyzed for total cyanide by EPA Methods 9014.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Equipment Blank
- ✓ Sensitivity
- ✓ Electronic Data Deliverables Review

7.1 Overall Assessment

The cyanide data reported in this package are considered usable for meeting project objectives. The analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this package is 100%.

7.2 Holding Times

The holding time for the cyanide analysis of solid samples is 14 days from sample collection to analysis. The holding times were met for the sample analyses.

7.3 Method Blanks

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 216711). Cyanide was not detected in the method blank above the MDL.

7.4 Matrix Spike

MS/MSD pairs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). A sample set specific MS/MSD pair was reported, using sample WINDROW1, SEC 3, C. The recovery and RPD results were within the laboratory specified acceptance criteria.

7.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Three LCSs were reported. The recovery results were within the laboratory specified acceptance criteria.

7.6 Laboratory Duplicate

A laboratory duplicate was not reported.

7.7 Field Duplicate

Two field duplicates were collected with the sample set. One field duplicate was analyzed for cyanide, DUP2. Acceptable precision [RPD <40% for results greater than five times the RL and ±2 times the RL for results less than five times the RL] was demonstrated between the field duplicates and the original sample, Windrow 1,Sec 3, C.

7.8 Sensitivity

The samples were reported to the MDL. Elevated non-detect results were not reported.

7.9 Electronic Data Deliverables Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

* * * * *

ATTACHMENT 1
DATA VALIDATION QUALIFIER DEFINITIONS AND INTERPRETATION KEY
Assigned by Geosyntec's Data Validation Team

DATA QUALIFIER DEFINITIONS

U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

J+ The analyte was positively identified; however, the associated numerical value is likely to be higher that the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.

J- The analyte was positively identified; however, the associated numerical value is likely to be lower that the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ATTACHMENT 2
DATA VALIDATION REASON CODES
Assigned by Geosyntec's Data Validation Team

Valid Value	Description
1	Preservation requirement not met
2	Analysis holding time exceeded
3	Blank contamination (i.e., method, trip, equipment, etc.)
4	Matrix spike/matrix spike duplicate recovery or RPD outside limits
5	LCS recovery outside limits
6	Surrogate recovery outside limits
7	Field Duplicate RPD exceeded
8	Serial dilution percent difference exceeded
9	Calibration criteria not met
10	Linear range exceeded
11	Internal standard criteria not met
12	Lab duplicates RPD exceeded
13	Other

RPD-relative percent difference

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Memorandum

Date:	18 July 2017
To:	Aron Krasnopoler
From:	Mary Tyler
CC:	J. Caprio
Subject:	**Stage 2A Data Validation - Level II Data Deliverable, TestAmerica Job ID 180-68096-1**

SITE: Former Sperry Remington Site-North IRM

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of thirty-three solid samples, including two samples for matrix spike/matrix spike duplicate (MS/MSD) analyses, three field duplicate samples and two trip blanks, collected July 11, 2017, as part of the Former Sperry Remington Site-North IRM project. The analyses were performed at TestAmerica Laboratories, Inc., Pittsburgh, Pennsylvania. The samples were analyzed for the following tests:

- Volatile Organic Compounds (VOCs) by EPA Methods 5035/8260C
- Semivolatile Organic Compounds (SVOCs) by EPA Methods 3541/8270D
- Polychlorinated Biphenyls (PCBs) by EPA Methods 3541/8082A
- Metals by EPA Methods 3050B/6010C
- Mercury by EPA Method 7471B
- Total Cyanide by EPA Method 9014
- Total Solids by Standard Method 2540G

EXECUTIVE SUMMARY

The samples were handled, prepared, and measured in the same manner under similar prescribed conditions.

Overall, based on this Stage 2A data validation covering the quality control (QC) parameters listed below, the data as qualified are usable for meeting project objectives, with the following exception. Since there were no recoveries (0%) of pentachlorophenol in the MS/MSD pair, the nondetect result of pentachlorophenol in sample W2, S1, C 71117 was R qualified as rejected.

The remaining qualified data should be used within the limitations of the qualifications.

The data were validated based on the Quality Assurance Project Plan (QAPP) for Former Sperry Remington Facility Industrial Outfall Site, Elmira, New York, NYSDEC Site I.D. # 808043, NY09-2480-04, July 7, 2010, Revised November 11, 2010, USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review, January 2017 (EPA 540-R-2017-002), USEPA Contract Laboratory Program National Functional Guidelines for Superfund Inorganic Methods Data Review, January 2017 (EPA 540-R-2017-001), the pertinent methods referenced by the laboratory report and professional and technical judgment.

The following samples were analyzed and validated at Stage 2A level in the data set:

Laboratory ID	Client ID
180-68096-1	W1, S5, A 71117
180-68096-2	W1, S5, B 71117
180-68096-3	W1, S5, C 71117
180-68096-4	W2, S1, A 71117
180-68096-4 MS	W2, S1, A 71117 MS
180-68096-4 MSD	W2, S1, A 71117 MSD
180-68096-5	W2, S1, B 71117
180-68096-6	W2, S1, C 71117
180-68096-6 MS	W2, S1, C 71117 MS
180-68096-6 MSD	W2, S1, C 71117 MSD
180-68096-7	W2, S2, A 71117
180-68096-8	W2, S2, B 71117
180-68096-9	W2, S2, C 71117
180-68096-10	W2, S3, A 71117
180-68096-11	W2, S3, B 71117
180-68096-12	W2, S3, C 71117
180-68096-13	W2, S4, A 71117
180-68096-14	W2, S4, B 71117
180-68096-15	W2, S4, C 71117
180-68096-16	W2, S5 A 71117
180-68096-17	W2, S5 B 71117

Laboratory ID	Client ID
180-68096-18	W2, S5 C 71117
180-68096-19	W3, S1 A 71117
180-68096-20	W3, S1 B 71117
180-68096-21	DUP-3
180-68096-22	DUP-4
180-68096-23	W3, S1, C 71117
180-68096-24	W3, S2, A 71117
180-68096-25	W3, S2, B 71117
180-68096-26	W3, S2, C 71117
180-68096-27	W3, S3, A 71117
180-68096-28	W3, S3, B 71117
180-68096-29	W3, S3, C 71117
180-68096-30	W3, S4, A 71117
180-68096-31	W3, S4, B 71117
180-68096-32	W3, S4, C 71117
180-68096-33	DUP-5
180-68096-34	W3, S5, A 71117
180-68096-35	W3, S5, B 71117
180-68096-36	W3, S5, C 71117
180-68096-37	TRIP BLANK 1
180-68096-38	TRIP BLANK 2

The samples were received at the laboratory at 1.2-3.1^{o}C, within the criteria of 0-6°C. No sample preservation issues were noted by the laboratory.

The following issues were noted with the chain of custody (COC):

- Incorrect error corrections were observed on the COC, instead of the proper procedure of a single strike through, correction, and initials and date of person making the corrections.

- No collection times were listed on the COC for the field duplicate samples; the laboratory assigned collection times of 00:00.

- Two trip blanks were listed on the COC for VOC analysis, both with IDs Trip Blank. The laboratory assigned them IDs of TRIP BLANK 1 and TRIP BLANK 2. In addition, there were no collection dates or times were listed on the COC for the trip blanks; the laboratory assigned collection dates and times of 7/11/17, 00:00.

The solids data, used to report the samples on a dry weight basis, were not validated.

1.0 VOLATILE ORGANIC COMPOUNDS

The samples were analyzed for VOCs by EPA methods 5035/8260B.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

⊗ Overall Assessment
✓ Holding Times
✓ Method Blank
✓ Matrix Spike/Matrix Spike Duplicate
✓ Laboratory Control Sample
✓ Surrogates
✓ Trip Blank
✓ Field Duplicate
✓ Sensitivity
✓ Electronic Data Deliverable Review

1.1 Overall Assessment

The VOC data reported in this package are considered usable for meeting project objectives. The analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this data set is 100%.

The narrative indicated that there was “significant” headspace in two of the three VOA vials for TRIP BLANK 1 and TRIP BLANK 2. Significant headspace is defined by the laboratory as a

bubble greater than 6 millimeters (mm) in diameter. Since VOCs were not detected in the associated solid samples, no qualifications were applied to the data based on trip blank results.

The narrative also indicated that the continuing calibration verification (CCV) percent differences (%Ds) for carbon tetrachloride were high, outside method specified acceptance criteria in analytical batches 217186 and 217056, both with low biases; the %Ds were 22%D and 25%D, respectively, and the method limits are 20%D. Since the %Ds were within the validation guidance, no qualifications were applied to the data. In addition, the CCV %Ds for 2-butanone and acetone were high, outside method specified acceptance criteria in analytical batch 217200, both with low biases; the %Ds were 33%D and 41%D, respectively, and the method limits are 20%D. Since the %D for 2-butanone was within the validation guidance, no qualifications were applied to the 2-butanone data. However, since the %D for acetone was outside both the method and validation guidance and based on professional and technical judgment, the nondetect result of acetone in the associated sample was UJ qualified as estimated less than the method detection limit (MDL) and the concentration in the associated sample was J qualified as estimated.

Sample	Compound	Laboratory Result (µg/L)	Laboratory Flag	Validation Result (µg/L)	Validation Qualifier*	Reason Code**
TRIP BLANK 1	Acetone	3.5	J	3.5	J	9
TRIP BLANK 2	Acetone	3.1	U	3.1	UJ	9

µg/L-micrograms per liter
J- laboratory flag indicating the result is less than the reporting limit (RL) but greater than or equal to the MDL and the concentration is an approximate value
NA-not applicable
* Validation qualifiers are defined in Attachment 1 at the end of this report
**Reason codes are defined in Attachment 2 at the end of this report

1.2 Holding Times

The holding time for the VOC analysis of a preserved solid sample collected as a terracore is 48 hours until laboratory receipt and 14 days from sample collection to analysis. The holding time for the VOC analysis of a preserved water sample is 14 days from sample collection to analysis. The holding times were met for the sample analyses.

1.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Four method blanks were reported (batches 217200, 216893, 217056 and 217186). VOCs were not detected in the method blanks above the MDLs.

1.4 Matrix Spike/Matrix Spike Duplicate

A sample set specific MS/MSD pair was reported, using sample W2, S1, A 711172. The recovery and relative percent difference (RPD) results were within the laboratory specified acceptance criteria.

1.5 Laboratory Control Sample (LCS)

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two LCSs and two LCS/LCS duplicate (LCSD) pairs were reported. The recovery and RPD results were within the laboratory specified acceptance criteria, with the following exception.

The LCS recovery of n-butylbenzene was high and outside the laboratory specified acceptance criteria in batch 217200. Since n-butylbenzene was not detected in the associated samples, no qualifications were applied to the data.

1.6 Surrogates

Acceptable surrogate recoveries were reported.

1.7 Trip Blank

Two trip blanks accompanied the samples, TRIP BLANK 1 and TRIP BLANK 2. VOCs were not detected in the trip blanks above the MDLs, with the following exceptions.

Acetone was detected at an estimated concentration greater than the MDL and less than the RL in TRIP BLANK 1. Since acetone was not detected in the associated samples, no qualifications were applied to the data.

1.8 Field Duplicate

Three field duplicates were collected with the sample set. Two field duplicates were analyzed for VOCs, DUP-3 and DUP-5. Acceptable precision (RPD <40% for results greater than five times the RL and ±2 times the RL for results less than five times the RL) was demonstrated between the field duplicates and the original samples, W2, S4, B71117 and W3, S2, A71117, respectively. The RPDs between the results were 0%.

1.9 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were not reported.

1.10 Electronic Data Deliverable (EDD) Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

2.0 SEMIVOLATILE ORGANIC COMPOUNDS

The samples were analyzed for SVOCs by EPA methods 3541/8270D.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

⊗ Overall Assessment
✓ Holding Times
✓ Method Blank
⊗ Matrix Spike/Matrix Spike Duplicate
✓ Laboratory Control Sample
✓ Surrogates
✓ Field Duplicate
✓ Sensitivity
✓ Electronic Data Deliverable Review

2.1 Overall Assessment

The SVOC data reported in this package are considered usable for meeting project objectives, with the following exception. Since there were no recoveries (0%) of pentachlorophenol in the MS/MSD pair, the nondetect result of pentachlorophenol in sample W2, S1, C 71117 was R qualified as rejected. Therefore, the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this data set is 99.6%.

The narrative indicated that the CCV %Ds for pentachlorophenol were high, outside method specified acceptance criteria in analytical batches 216940 and 217242, both with high biases; the %Ds were 54%D and 51%D, respectively, and the method limits are 20%D. Since the biases were high and pentachlorophenol was not detected in the associated samples, no qualifications were applied to the data. In addition, the CCV %D for benzo[g,h,i]perylene was high, outside method specified acceptance criteria in analytical batch 217242, with a low bias; the %D was 21%D and

the method limit is 20%D. Since the %D for benzo[g,h,i]perylene was within the validation guidance, no qualifications were applied to the benzo[g,h,i]perylene data.

2.2 Holding Times

The holding times for SVOC analysis of solid samples are 14 days from sample collection to extraction and 40 days from extraction to analysis. The holding times were met for the sample analyses.

2.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 216880). SVOCs were not detected in the method blank above the MDLs.

2.4 Matrix Spike/Matrix Spike Duplicate

MS/MSD pairs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). A sample set specific MS/MSD pair was reported, using sample W2, S1, C 71117. The recovery and RPD results were within the laboratory specified acceptance criteria, with the following exceptions.

The recoveries and/or RPDs of the following compounds were high and outside the laboratory specified acceptance criteria. Since fluorene and 1,4-dioxane were not detected in sample W2, S1, C 71117, no qualifications were applied to the fluorene and 1,4-dioxane data. However, the concentrations of the other compounds listed below in sample W2, S1, C 71117 were J qualified as estimated

1,4-Dioxane	Benzo[a]pyrene	Fluorene
Acenaphthylene	Benzo[g,h,i]perylene	Indeno[1,2,3-cd]pyrene
Anthracene	Benzo[k]fluoranthene	Phenanthrene
Benzo[a]anthracene	Chrysene	Pyrene

The MSD recovery of benzo[b]fluoranthene was low and the RPD was high, outside the laboratory specified acceptance criteria. The MS recovery and RPD of fluoranthene were high and the MSD recovery was low, outside the laboratory specified acceptance criteria. Therefore, the concentrations of benzo[b]fluoranthene and fluoranthene in sample W2, S1, C 71117 were J qualified as estimated. There were no recoveries (0%) of pentachlorophenol in the MS/MSD pair.

Therefore, the nondetect result of pentachlorophenol in sample W2, S1, C 71117 was R qualified as rejected.

The qualifications due to the MS/MSD results are summarized below.

Sample	Compound	Laboratory Result (mg/kg)	Laboratory Flag	Validation Result (mg/kg)	Validation Qualifier	Reason Code
W2, S1, C 71117	Acenaphthylene	0.12	J,F2	0.12	J	4
W2, S1, C 71117	Anthracene	0.15	F2	0.15	J	4
W2, S1, C 71117	Benzo[a]anthracene	0.59	F2,F1	0.59	J	4
W2, S1, C 71117	Benzo[a]pyrene	0.61	F2,F1	0.61	J	4
W2, S1, C 71117	Benzo[b]fluoranthene	0.78	F2,F1	0.78	J	4
W2, S1, C 71117	Benzo[g,h,i]perylene	0.55	F2,F1	0.55	J	4
W2, S1, C 71117	Benzo[k]fluoranthene	0.21	F2,F1	0.21	J	4
W2, S1, C 71117	Chrysene	0.62	F2	0.62	J	4
W2, S1, C 71117	Fluoranthene	0.93	F2,F1	0.93	J	4
W2, S1, C 71117	Indeno[1,2,3-cd]pyrene	0.50	F2,F1	0.50	J	4
W2, S1, C 71117	Pentachlorophenol	1.4	U,F1	1.4	R	4
W2, S1, C 71117	Phenanthrene	0.43	F2,F1	0.43	J	4
W2, S1, C 71117	Pyrene	0.92	F2,F1	0.92	J	4

mg/kg-milligrams per kilogram
J- laboratory flag indicating the Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value
F1-laboratory flag indicating the MS and/or MSD recovery is outside acceptance limits
F2- laboratory flag indicating the MS/MSD RPD exceeds control limits
U-not detected at the stated MDL

2.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery results were within the laboratory specified acceptance criteria.

2.6 Surrogates

Acceptable surrogate recoveries were reported.

2.7 Field Duplicate

Three field duplicates were collected with the sample set. One field duplicate was analyzed for SVOCs, DUP-4. Acceptable precision (RPD <40% for results greater than five times the RL and ±2 times the RL for results less than five times the RL) was demonstrated between the field duplicate and the original sample, W2, S4, C71117.

2.8 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were reported due to the dilutions analyzed.

2.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II reports and the EDDs.

3.0 POLYCHLORINATED BIPHENYLS

The samples were analyzed for PCBs by EPA Methods 3541/8082A.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

⊗ Overall Assessment
✓ Holding Times
✓ Method Blank
✓ Matrix Spike/Matrix Spike Duplicate

- ✓ Laboratory Control Sample
- ✓ Surrogates
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

3.1 Overall Assessment

The PCB data reported in this package are considered usable for meeting project objectives. The analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this data set is 100%.

The samples contain mixtures of PCBs 1248, 1254 and 1260. There are peaks in 1248 and 1254 that are in both of these PCBs and peaks in 1254 and 1260 that are in both of these PCBs; therefore, there is contribution between PCBs when more than one PCB is detected in a sample. Therefore, based on professional and technical judgment, the concentrations of PCBs PCBs 1248, 1254 and 1260 in these samples were J qualified as estimated.

Sample ID	Compound	Laboratory Concentration (mg/kg)	Laboratory Flag	Validation Concentration (mg/kg)	Validation Qualifier	Reason Code
DUP-4	PCB-1248	0.56	NA	0.56	J	13
DUP-4	PCB-1254	0.38	NA	0.38	J	13
DUP-4	PCB-1260	0.14	NA	0.14	J	13
W1, S5, C 71117	PCB-1248	0.63	NA	0.63	J	13
W1, S5, C 71117	PCB-1254	0.45	NA	0.45	J	13
W1, S5, C 71117	PCB-1260	0.15	NA	0.15	J	13
W2, S1, C 71117	PCB-1248	0.84	NA	0.84	J	13
W2, S1, C 71117	PCB-1254	0.64	NA	0.64	J	13
W2, S1, C 71117	PCB-1260	0.19	NA	0.19	J	13
W2, S2, C 71117	PCB-1248	0.74	NA	0.74	J	13
W2, S2, C 71117	PCB-1254	0.52	NA	0.52	J	13
W2, S2, C 71117	PCB-1260	0.20	NA	0.20	J	13
W2, S3, C 71117	PCB-1248	0.69	NA	0.69	J	13
W2, S3, C 71117	PCB-1254	0.56	NA	0.56	J	13
W2, S3, C 71117	PCB-1260	0.16	NA	0.16	J	13
W2, S4, C 71117	PCB-1248	0.70	NA	0.70	J	13
W2, S4, C 71117	PCB-1254	0.48	NA	0.48	J	13

Sample ID	Compound	Laboratory Concentration (mg/kg)	Laboratory Flag	Validation Concentration (mg/kg)	Validation Qualifier	Reason Code
W2, S4, C 71117	PCB-1260	0.16	NA	0.16	J	13
W2, S5 C 71117	PCB-1248	0.70	NA	0.70	J	13
W2, S5 C 71117	PCB-1254	0.48	NA	0.48	J	13
W2, S5 C 71117	PCB-1260	0.17	NA	0.17	J	13
W3, S1, C 71117	PCB-1248	0.67	NA	0.67	J	13
W3, S1, C 71117	PCB-1254	0.47	NA	0.47	J	13
W3, S1, C 71117	PCB-1260	0.17	NA	0.17	J	13
W3, S2, C 71117	PCB-1248	0.65	NA	0.65	J	13
W3, S2, C 71117	PCB-1254	0.44	NA	0.44	J	13
W3, S2, C 71117	PCB-1260	0.15	NA	0.15	J	13
W3, S3, C 71117	PCB-1248	0.88	NA	0.88	J	13
W3, S3, C 71117	PCB-1254	0.59	NA	0.59	J	13
W3, S3, C 71117	PCB-1260	0.17	NA	0.17	J	13
W3, S4, C 71117	PCB-1248	0.93	NA	0.93	J	13
W3, S4, C 71117	PCB-1254	0.61	NA	0.61	J	13
W3, S4, C 71117	PCB-1260	0.19	NA	0.19	J	13
W3, S5, C 71117	PCB-1248	0.93	NA	0.93	J	13
W3, S5, C 71117	PCB-1254	0.61	NA	0.61	J	13
W3, S5, C 71117	PCB-1260	0.18	NA	0.18	J	13

mg/kg-milligrams per kilogram
NA-not applicable

3.2 Holding Times

The holding times for the PCB analysis of solids are 14 days from sample collection to extraction and 40 days from extraction to analysis. The holding times were met for the sample analyses.

3.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 216879). PCBs were not detected in the method blank above the MDLs.

3.4 Matrix Spike/Matrix Spike Duplicate

MS/MSD pairs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). A sample set specific MS/MSD pair was reported, using

sample W2, S1, C 71117. The recovery and RPD results were within the laboratory specified acceptance criteria.

3.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery results were within the laboratory specified acceptance criteria.

3.6 Surrogates

Acceptable surrogate recoveries were reported.

3.7 Field Duplicate

Three field duplicates were collected with the sample set. One field duplicate was analyzed for PCBs, DUP-4. Acceptable precision (RPD <40% for results greater than five times the RL and ±2 times the RL for results less than five times the RL) was demonstrated between the field duplicate and the original sample, W2, S4, C71117.

3.8 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were not reported.

3.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No other discrepancies were identified between the level II report and the EDD.

5.0 METALS

The samples were analyzed for metals by EPA methods 3050B/6010C (Mercury evaluated separately in Section 6.0, below).

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ⊗ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ⊗ Serial Dilution
- ⊗ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

5.1 Overall Assessment

The metals data reported in this package are considered usable for meeting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this data set is 100%.

5.2 Holding Times

The holding time for metals analysis of solid samples is 180 days from sample collection to analysis. The holding times were met for the sample analyses.

5.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 216920). The metals were not detected in the method blank above the MDLs.

5.4 Matrix Spike/Matrix Spike Duplicate

MS/MSD pairs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). A sample set specific MS/MSD pair was reported, using sample W2, S1, C 71117. The recovery and RPD results were within the laboratory specified acceptance criteria, with the following exceptions.

One or both of the recoveries of copper and zinc were low and outside the laboratory specified acceptance criteria. Therefore, the concentrations of copper and zinc in sample W2, S1, C 71117 were J- qualified as estimated with low biases. In addition, the RPD for manganese was high and outside the laboratory specified acceptance criteria. Since the concentration of manganese in

sample W2, S1, C 71117 was greater than four times the spike concentration, no qualifications were applied to the manganese data.

The qualifications due to the MS/MSD results are summarized below.

Sample	Compound	Laboratory Result (mg/kg)	Laboratory Flag	Validation Result (mg/kg)	Validation Qualifier	Reason Code
W2, S1, C 71117	Copper	26	F1	26	J-	4
W2, S1, C 71117	Zinc	76	F1	76	J-	4

mg/kg-milligrams per kilogram
F1-laboratory flag indicating the MS and/or MSD recovery is outside acceptance limits

5.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery results were within the laboratory specified acceptance criteria.

5.6 Laboratory Duplicate

A laboratory duplicate was not reported with the sample set.

5.7 Serial Dilution

The narrative indicated that the serial dilution results for manganese and zinc using sample W2, S1, C 71117 were high and outside the method specified acceptance criteria. The %Ds were 13%D and 12%D, respectively, limits 10%D; the serial dilution results were in the level IV report. Therefore, the concentrations of manganese and zinc in sample W2, S1, C 71117 were J qualified as estimated.

Sample	Compound	Laboratory Result (mg/kg)	Laboratory Flag	Validation Result (mg/kg)	Validation Qualifier	Reason Code
W2, S1, C 71117	Manganese	800	F2	800	J	8
W2, S1, C 71117	Zinc	76	F1	76	J	8

mg/kg-milligrams per kilogram
F2- laboratory flag indicating the MS/MSD RPD exceeds control limits
F1-laboratory flag indicating the MS and/or MSD recovery is outside acceptance limits

5.8 Field Duplicate

Three field duplicates were collected with the sample set. One field duplicate was analyzed for metals, DUP-4. Acceptable precision (RPD <40% for results greater than five times the RL and ±2 times the RL for results less than five times the RL) was demonstrated between the field duplicates and the original sample, W2, S4, C71117, with the following exceptions.

The field duplicate acceptance criteria were not met for arsenic and nickel. Therefore, based on professional and technical judgment, the concentrations of arsenic and nickel in the field duplicate pair were J qualified as estimated.

The qualifications due to the field duplicate results are summarized below.

Sample	Compound	Laboratory Result (mg/kg)	Laboratory Flag	RPD	Validation Result (mg/kg)	Validation Qualifier	Reason Code
DUP-4	Arsenic	8.4	NA	42	8.4	J	7
W2, S4, C 71117	Arsenic	5.5	NA		5.5	J	7
DUP-4	Nickel	21	NA	40	21	J	7
W2, S4, C 71117	Nickel	14	NA		14	J	7

mg/kg-milligrams per kilogram
NA-not applicable

5.9 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were not reported.

5.10 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

6.0 MERCURY

The samples were analyzed for mercury by EPA methods 7471B.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues

were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ⊗ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

6.1 Overall Assessment

The mercury data reported in this package are considered usable for meeting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this data set is 100%.

6.2 Holding Times

The holding time for the mercury analysis of solid samples is 28 days from sample collection to analysis. The holding times were met for the sample analyses.

6.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 217097). Mercury was not detected in the method blank above the MDL.

6.4 Matrix Spike/Matrix Spike Duplicate

MS/MSD pairs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). A sample set specific MS/MSD pair was reported, using sample W2, S1, C 71117. The recovery results were high and outside the laboratory specified acceptance criteria. Therefore, the concentration of mercury in sample W2, S1, C 71117 was J+ qualified as estimated with a high bias.

Sample	Compound	Laboratory Result (mg/kg)	Laboratory Flag	Validation Result (mg/kg)	Validation Qualifier	Reason Code
W2, S1, C 71117	Mercury	0.41	F1	0.41	J+	4

mg/kg-milligrams per kilogram
F1-laboratory flag indicating the MS and/or MSD recovery is outside acceptance limits

6.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery result was within the laboratory specified acceptance criteria.

6.6 Laboratory Duplicate

A laboratory duplicate was not reported.

6.7 Field Duplicate

Three field duplicates were collected with the sample set. One field duplicate was analyzed for mercury, DUP-4. Acceptable precision (RPD <40% for results greater than five times the RL and ±2 times the RL for results less than five times the RL) was demonstrated between the field duplicates and the original sample, W2, S4, C71117.

6.8 Sensitivity

The samples were reported to the MDL. Elevated non-detect results were not reported.

6.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

7.0 TOTAL CYANIDE

The samples were analyzed for total cyanide by EPA Methods 9014.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues

were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Equipment Blank
- ✓ Sensitivity
- ✓ Electronic Data Deliverables Review

7.1 Overall Assessment

The cyanide data reported in this package are considered usable for meeting project objectives. The analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this data set is 100%.

7.2 Holding Times

The holding time for the cyanide analysis of solid samples is 14 days from sample collection to analysis. The holding times were met for the sample analyses.

7.3 Method Blanks

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 216972). Cyanide was not detected in the method blank above the MDL.

7.4 Matrix Spike

MS/MSD pairs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). A sample set specific MS/MSD pair was reported, using sample W2, S1, C 71117. The recovery and RPD results were within the laboratory specified acceptance criteria.

7.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Three LCSs were reported. The recovery results were within the laboratory specified acceptance criteria.

7.6 Laboratory Duplicate

A laboratory duplicate was not reported.

7.7 Field Duplicate

Three field duplicates were collected with the sample set. One field duplicate was analyzed for cyanide, DUP-4. Acceptable precision (RPD <40% for results greater than five times the RL and ±2 times the RL for results less than five times the RL) was demonstrated between the field duplicates and the original sample, Windrow 1,Sec 3, C.

7.8 Sensitivity

The samples were reported to the MDL. Elevated non-detect results were not reported.

7.9 Electronic Data Deliverables Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

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ATTACHMENT 1
DATA VALIDATION QUALIFIER DEFINITIONS AND INTERPRETATION KEY
Assigned by Geosyntec's Data Validation Team

DATA QUALIFIER DEFINITIONS

U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

J+ The analyte was positively identified; however, the associated numerical value is likely to be higher that the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.

J- The analyte was positively identified; however, the associated numerical value is likely to be lower that the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ATTACHMENT 2
DATA VALIDATION REASON CODES
Assigned by Geosyntec's Data Validation Team

Valid Value	Description
1	Preservation requirement not met
2	Analysis holding time exceeded
3	Blank contamination (i.e., method, trip, equipment, etc.)
4	Matrix spike/matrix spike duplicate recovery or RPD outside limits
5	LCS recovery outside limits
6	Surrogate recovery outside limits
7	Field Duplicate RPD exceeded
8	Serial dilution percent difference exceeded
9	Calibration criteria not met
10	Linear range exceeded
11	Internal standard criteria not met
12	Lab duplicates RPD exceeded
13	Other

RPD-relative percent difference

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Request to Import/Reuse Fill or Soil

This form is based on the information required by DER-10, Section 5.4(e). Use of this form is not a substitute for reading the applicable Technical Guidance document.

SECTION 1 – SITE BACKGROUND

The allowable site use is: Restricted Residential Use

Have Ecological Resources been identified? yes

Is this soil originating from the site? no

How many cubic yards of soil will be imported/reused? 800-1000

If greater than 1000 cubic yards will be imported, enter volume to be imported:

SECTION 2 – MATERIAL OTHER THAN SOIL

Is the material to be imported gravel, rock or stone? no

Does it contain less than 10%, by weight, material that would pass a size 80 sieve? yes

Is this virgin material from a permitted mine or quarry? yes

Is this material recycled concrete or brick from a DEC registered processing facility? no

SECTION 3 - SAMPLING

Provide a brief description of the number and type of samples collected in the space below:

Seven (7) Discrete Samples were collected and analyzed for VOCs. Two (2) Composite Samples were collected and analyzed for SVOCs, Inorganics, and PCBs/Pesticides. The chain of custody incorrectly shows the same Sample ID for the composite samples and the first two discrete VOC samples. The Analytical Results have been attached to this form.

Two (2) composite samples were collected and analyzed for grain size distribution and moisture-density.

Example Text: 5 discrete samples were collected and analyzed for VOCs. 2 composite samples were collected and analyzed for SVOCs, Inorganics & PCBs/Pesticides.

If the material meets requirements of DER-10 section 5.5 (other material), no chemical testing needed.

SECTION 3 CONT'D - SAMPLING

Provide a brief written summary of the sampling results or attach evaluation tables (compare to DER-10, Appendix 5):

Analytical results are compared to Restricted Residential SCO.

VOC analyses: acetone, benzene, toluene, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene and total xylenes were detected in 7 of 7 samples at levels below Restricted Residential SCOs.

There were no detections of SVOCs, PCBs, or pesticides in the two composite samples.

Metals analyses: arsenic, barium, beryllium, copper, lead manganese, nickel, zinc, and mercury were detected at levels below Restricted Residential SCOs.

Example Text: Arsenic was detected up to 17 ppm in 1 (of 5) samples; the allowable level is 16 ppm.

If Ecological Resources have been identified use the "If Ecological Resources are Present" column in Appendix 5.

SECTION 4 – SOURCE OF FILL

Name of person providing fill and relationship to the source:

Edger Enterprises

Location where fill was obtained:

Brewer's Pit located in Horseheads NY

Identification of any state or local approvals as a fill source:

NYSDEC Facility ID 8-0734-00150

If no approvals are available, provide a brief history of the use of the property that is the fill source:

Provide a list of supporting documentation included with this request:

Geotechnical Data and the Chemical Analysis Reports

The information provided on this form is accurate and complete.

	6-23-17
Signature	Date
Kyle Snyder	
Print Name	
RECON	
Firm	

TABLE 1
Request to Import/Reuse Fill or Soil - Windrows 1 to 3
Former Sperry Remington Site - North Portion
Elmira, New York

				Field_ID	WINDROW1, SEC 1, B	WINDROW1, SEC 1, C	WINDROW1, SEC 2, A	WINDROW1, SEC 2, B	WINDROW1, SEC 2, C	WINDROW1, SEC 3, A	WINDROW1, SEC 3, B	WINDROW1, SEC 3, C	WINDROW1, SEC 4, A	WINDROW1, SEC 4, B	WINDROW1, SEC 4, C	W1, S5, A 71117	W1, S5, B 71117	W1, S5, C 71117	W2, S1, A 71117	W2, S1, B 71117	W2, S1, C 71117	W2, S2, A 71117
				Sample Date	7/10/2017	7/10/2017	7/10/2017	7/10/2017	7/10/2017	7/10/2017	7/10/2017	7/10/2017	7/10/2017	7/10/2017	7/10/2017	7/11/2017	7/11/2017	7/11/2017	7/11/2017	7/11/2017	7/11/2017	7/11/2017
				NYSDEC DER10 App 5 Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010																	
Method_Name	**Analyte**	**Units**	**EQL**																			
PCBs	Arochlor 1016	mg/kg	0.0093		-	<0.0098U	-	-	<0.0098U	-	-	<0.0098U	-	-	<0.0099U	-	-	<0.0095U	-	-	<0.0098U	-
	Arochlor 1221	mg/kg	0.0091		-	<0.0095U	-	-	<0.0095U	-	-	<0.0095U	-	-	<0.0096U	-	-	<0.0093U	-	-	<0.0095U	-
	Arochlor 1232	mg/kg	0.0069		-	<0.0073U	-	-	<0.0073U	-	-	<0.0073U	-	-	<0.0074U	-	-	<0.0071U	-	-	<0.0073U	-
	Arochlor 1242	mg/kg	0.014		-	<0.015U	-	-	<0.015U	-	-	<0.015U	-	-	<0.015U	-	-	<0.014U	-	-	<0.015U	-
	Arochlor 1248	mg/kg	0.018		-	1.3J	-	-	1.1J	-	-	1J	-	-	0.91J	-	-	0.63J	-	-	0.84J	-
	Arochlor 1254	mg/kg	0.018		-	0.82J	-	-	0.68J	-	-	0.67J	-	-	0.6J	-	-	0.45J	-	-	0.64J	-
	Arochlor 1260	mg/kg	0.018		-	0.22J	-	-	0.18J	-	-	0.17J	-	-	0.17J	-	-	0.15J	-	-	0.19J	-
	Arochlor 1268	mg/kg	0.0053		-	<0.0056U	-	-	<0.0056U	-	-	<0.0056U	-	-	<0.0057U	-	-	<0.0055U	-	-	<0.0056U	-
	Arochlor 1262	mg/kg	0.013		-	<0.013U	-	-	<0.013U	-	-	<0.013U	-	-	<0.013U	-	-	<0.013U	-	-	<0.013U	-
	Total PCBs	mg/kg		1	-	2.34	-	-	1.96	-	-	1.84	-	-	1.68	-	-	1.23	-	-	1.67	-
SVOCs	1,4-Dioxane	mg/kg	0.027	13	-	<0.055U	-	-	<0.056U	-	-	<0.057U	-	-	<0.056U	-	-	<0.055U	-	-	<0.11U	-
	2-methylphenol	mg/kg	0.016	100	-	<0.033U	-	-	<0.033U	-	-	<0.033U	-	-	<0.033U	-	-	<0.032U	-	-	<0.063U	-
	4-methylphenol	mg/kg	0.016	100	-	<0.033U	-	-	<0.033U	-	-	<0.033U	-	-	<0.033U	-	-	<0.032U	-	-	<0.064U	-
	Acenaphthene	mg/kg	0.013	100	-	<0.025U	-	-	<0.025U	-	-	<0.025U	-	-	<0.025U	-	-	<0.025U	-	-	<0.048U	-
	Acenaphthylene	mg/kg	0.036	100	-	0.28	-	-	0.21	-	-	0.25J	-	-	0.21	-	-	0.099	-	-	0.12J	-
	Anthracene	mg/kg	0.036	100	-	0.18	-	-	0.19	-	-	0.18J	-	-	0.15	-	-	0.11	-	-	0.15J	-
	Benz(a)anthracene	mg/kg	0.036	1	-	0.39	-	-	0.36	-	-	0.52	-	-	0.33	-	-	0.45	-	-	0.59J	-
	Benzo(a) pyrene	mg/kg	0.036	1	-	0.39	-	-	0.37	-	-	0.49	-	-	0.35	-	-	0.45	-	-	0.61J	-
	Benzo(b)fluoranthene	mg/kg	0.036	1	-	0.48	-	-	0.45	-	-	0.62	-	-	0.42	-	-	0.57	-	-	0.78J	-
	Benzo(g,h,i)perylene	mg/kg	0.036	100	-	0.36	-	-	0.34	-	-	0.44	-	-	0.35	-	-	0.47	-	-	0.55J	-
	Benzo(k)fluoranthene	mg/kg	0.036	3.9	-	0.18	-	-	0.17	-	-	0.23J	-	-	0.2	-	-	0.15	-	-	0.21J	-
	Chrysene	mg/kg	0.036	3.9	-	0.44	-	-	0.35	-	-	0.48	-	-	0.33	-	-	0.38	-	-	0.62J	-
	Dibenz(a,h)anthracene	mg/kg	0.036	0.33	-	0.089	-	-	0.085	-	-	0.098	-	-	0.096	-	-	0.11	-	-	0.12J	-
	Dibenzofuran	mg/kg	0.029	59	-	<0.029U	-	-	<0.03U	-	-	0.035J	-	-	<0.03U	-	-	0.04J	-	-	<0.058U	-
	Fluoranthene	mg/kg	0.036	100	-	0.42	-	-	0.49	-	-	0.64J	-	-	0.42	-	-	0.72	-	-	0.93J	-
	Fluorene	mg/kg	0.026	100	-	0.036J	-	-	<0.027U	-	-	0.039J	-	-	0.032J	-	-	<0.026U	-	-	<0.051U	-
	Hexachlorobenzene	mg/kg	0.015	1.2	-	<0.03U	-	-	<0.03U	-	-	<0.03U	-	-	<0.03U	-	-	<0.029U	-	-	<0.058U	-
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.036	0.5	-	0.29	-	-	0.27	-	-	0.35	-	-	0.28	-	-	0.4	-	-	0.5J	-
	Naphthalene	mg/kg	0.036	100	-	0.098	-	-	0.081	-	-	0.12	-	-	0.1	-	-	0.12	-	-	0.16	-
	Pentachlorophenol	mg/kg	0.34	6.7	-	<0.7U	-	-	<0.71U	-	-	<0.71U	-	-	<0.7U	-	-	<0.69U	-	-	-	-
	Phenanthrene	mg/kg	0.036	100	-	0.26	-	-	0.33	-	-	0.39J	-	-	0.29	-	-	0.36	-	-	0.43J	-
	Phenol	mg/kg	0.025	100	-	<0.05U	-	-	<0.05U	-	-	<0.051U	-	-	<0.05U	-	-	<0.049U	-	-	<0.097U	-
	Pyrene	mg/kg	0.036	100	-	0.64	-	-	0.6	-	-	0.82J	-	-	0.55	-	-	0.72	-	-	0.92J	-
VOCs	1,1,1-trichloroethane	mg/kg	0.002	100	<0.0024U	-	<0.0029U	<0.0026U	-	<0.0025U	<0.0025U	-	<0.0026U	<0.0021U	-	<0.0027U	<0.0022U	-	<0.0026U	<0.0022U	-	<0.0024U
	1,1-dichloroethane	mg/kg	0.0014	26	<0.0018U	-	<0.0021U	<0.0019U	-	<0.0018U	<0.0018U	-	<0.0018U	<0.0015U	-	<0.0019U	<0.0016U	-	<0.0019U	<0.0016U	-	<0.0017U
	1,1-dichloroethene	mg/kg	0.0023	100	<0.0028U	-	<0.0033U	<0.0029U	-	<0.0029U	<0.0029U	-	<0.0029U	<0.0024U	-	<0.003U	<0.0025U	-	<0.003U	<0.0025U	-	<0.0027U
	1,2,4-trimethylbenzene	mg/kg	0.0011	52	<0.0013U	-	<0.0015U	<0.0014U	-	<0.0014U	<0.0014U	-	<0.0014U	<0.0011U	-	<0.0014U	<0.0012U	-	<0.0014U	<0.0012U	-	<0.0013U
	1,2-dichlorobenzene	mg/kg	0.0032	100	<0.0039U	-	<0.0046U	<0.0041U	-	<0.0041U	<0.0041U	-	<0.0041U	<0.0033U	-	<0.0043U	<0.0036U	-	<0.0042U	<0.0035U	-	<0.0038U
	1,2-dichloroethane	mg/kg	0.0012	3.1	<0.0014U	-	<0.0017U	<0.0015U	-	<0.0015U	<0.0015U	-	<0.0015U	<0.0012U	-	<0.0016U	<0.0013U	-	<0.0015U	<0.0013U	-	<0.0014U
	1,3,5-trimethylbenzene	mg/kg	0.0014	52	<0.0017U	-	<0.002U	<0.0018U	-	<0.0017U	<0.0017U	-	<0.0018U	<0.0014U	-	<0.0018U	<0.0015U	-	<0.0018U	<0.0015U	-	<0.0016U
	1,3-dichlorobenzene	mg/kg	0.0013	49	<0.0016U	-	<0.0018U	<0.0016U	-	<0.0016U	<0.0016U	-	<0.0016U	<0.0013U	-	<0.0017U	<0.0014U	-	<0.0017U	<0.0014U	-	<0.0015U
	1,4-dichlorobenzene	mg/kg	0.00081	13	<0.00099U	-	<0.0012U	<0.0011U	-	<0.001U	<0.001U	-	<0.001U	<0.00085U	-	<0.0011U	<0.0009U	-	<0.0011U	<0.0009U	-	<0.00097U
	Methyl Ethyl Ketone	mg/kg	0.0023	100	<0.0028U	-	<0.0033U	<0.003U	-	<0.0029U	<0.0029U	-	<0.003U	<0.0024U	-	<0.0031U	<0.0026U	-	<0.003U	<0.0026U	-	<0.0027U
	Acetone	mg/kg	0.0025	100	<0.0031U	-	<0.0036U	<0.0032U	-	<0.0032U	<0.0032U	-	<0.0032U	<0.0026U	-	<0.0034U	<0.0028U	-	<0.0033U	<0.0028U	-	<0.003U
	Benzene	mg/kg	0.0016	4.8	<0.0019U	-	<0.0023U	<0.002U	-	<0.002U	<0.002U	-	<0.002U	<0.0016U	-	<0.0021U	<0.0017U	-	<0.002U	<0.0017U	-	<0.0019U
	Carbon tetrachloride	mg/kg	0.0026	2.4	<0.0032U	-	<0.0038U	<0.0034U	-	<0.0034U	<0.0034U	-	<0.0034U	<0.0028U	-	<0.0035U	<0.0029U	-	<0.0034U	<0.0029U	-	<0.0031U
	Chlorobenzene	mg/kg	0.0013	100	<0.0015U	-	<0.0018U	<0.0016U	-	<0.0016U	<0.0016U	-	<0.0016U	<0.0013U	-	<0.0017U	<0.0014U	-	<0.0016U	<0.0014U	-	<0.0015U
	Chloroform	mg/kg	0.0017	49	<0.0021U	-	<0.0024U	<0.0022U	-	<0.0021U	<0.0021U	-	<0.0022U	<0.0018U	-	<0.0023U	<0.0019U	-	<0.0022U	<0.0019U	-	<0.002U
	cis-1,2-dichloroethene	mg/kg	0.0013	100	<0.0015U	-	<0.0018U	<0.0016U	-	<0.0016U	<0.0016U	-	<0.0016U	<0.0013U	-	<0.0017U	<0.0014U	-	<0.0016U	<0.0014U	-	<0.0015U
	Dichloromethane	mg/kg	0.0019	100	<0.0023U	-	<0.0027U	<0.0024U	-	<0.0024U	<0.0024U	-	<0.0024U	<0.002U	-	<0.0025U	<0.0021U	-	<0.0024U	<0.0021U	-	<0.0022U
	Ethylbenzene	mg/kg	0.0017	41	<0.0021U	-	<0.0025U	<0.0022U	-	<0.0022U	<0.0022U	-	<0.0022U	<0.0018U	-	<0.0023U	<0.0019U	-	<0.0022U	<0.0019U	-	<0.002U
	Methyl-tert-butyl ether	mg/kg	0.0029	100	<0.0036U	-	<0.0042U	<0.0038U	-	<0.0037U	<0.0037U	-	<0.0038U	<0.0031U	-	<0.0039U	<0.0033U	-	<0.0038U	<0.0032U	-	<0.0035U
	n-butylbenzene	mg/kg	0.003	100	<0.0037U	-	<0.0044U	<0.0039U	-	<0.0038U	<0.0038U	-	<0.0039U	<0.0031U	-	<0.004U	<0.0034U	-	<0.0039U	<0.0033U	-	<0.0036U
	n-propylbenzene	mg/kg	0.0017	100	<0.0021U	-	<0.0024U	<0.0022U	-	<0.0021U	<0.0021U	-	<0.0021U	<0.0018U	-	<0.0023U	<0.0019U	-	<0.0022U	<0.0019U	-	<0.002U
	sec-butylbenzene	mg/kg	0.0019	100	<0.0024U	-	<0.0028U	<0.0025U	-	<0.0025U	<0.0025U	-	<0.0025U	<0.002U	-	<0.0026U	<0.0022U	-	<0.0025U	<0.0021U	-	<0.0023U
	Trichloroethene	mg/kg	0.0012	21	<0.0015U	-	<0.0017U	<0.0015U	-	<0.0015U	<0.0015U	-	<0.0015U	<0.0012U	-	<0.0016U	<0.0013U	-	<0.0016U	<0.0013U	-	<0.0014U
	tert-butylbenzene	mg/kg	0.0015	100	<0.0018U	-	<0.0021U	<0.0019U	-	<0.0019U	<0.0019U	-	<0.0019U	<0.0015U	-	<0.002U	<0.0016U	-	<0.0019U	<0.0016U	-	<0.0017U
	Tetrachloroethene	mg/kg	0.0016	19	<0.0019U	-	<0.0023U	<0.0021U	-	<0.002U	<0.002U	-	<0.002U	<0.0017U	-	<0.0021U	<0.0018U	-	<0.0021U	<0.0018U	-	<0.0019U
	Toluene	mg/kg	0.0013	100	<0.0016U	-	<0.0019U	<0.0017U	-	<0.0017U	<0.0017U	-	<0.0017U	<0.0014U	-	<0.0018U	<0.0015U	-	<0.0017U	<0.0015U	-	<0.0016U
	trans-1,2-dichloroethene	mg/kg	0.002	100	<0.0025U	-	<0.0029U	<0.0026U	-	<0.0026U	<0.0026U	-	<0.0026U	<0.0021U	-	<0.0027U	<0.0022U	-	<0.0026U	<0.0022U	-	<0.0024U
	Vinyl chloride	mg/kg	0.0029	0.9	<0.0036U	-	<0.0042U	<0.0038U	-	<0.0037U	<0.0037U	-	<0.0037U	<0.003U	-	<0.0039U	<0.0033U	-	<0.0038U	<0.0032U	-	<0.0035U
	Xylene Total	mg/kg	0.0034	100	<0.0042U	-	<0.0049U	<0.0044U	-	<0.0044U	<0.0044U	-	<0.0044U	<0.0036U	-	<0.0046U	<0.0038U	-	<0.0045U	<0.0038U	-	<0.0041U
Inorganics	Cyanide Total	mg/kg	0.14	27	-	<0.14U	-	-	<0.16U	-	-	0.19J	-	-	<0.15U	-	-	<0.17U	-	-	<0.16U	-
Metals	Arsenic	mg/kg	1	16	-	6.5	-	-	6.5	-	-	7.4	-	-	7.4	-	-	5.8	-	-	6.6	-
	Barium	mg/kg	21	400	-	76	-	-	83	-	-	92	-	-	94	-	-	65	-	-	84	-
	Beryllium	mg/kg	0.41	72	-	0.36J	-	-	0.37J	-	-	0.4J	-	-	0.41J	-	-	0.3J	-	-	0.35J	-
	Cadmium	mg/kg	0.51	4.3	-	0.15J	-	-	0.17J	-	-	0.18J	-	-	0.17J	-	-	0.16J	-	-	0.24J	-
	Chromium (III+VI)	mg/kg	0.51	110	-	9.6	-	-	10	-	-	12	-	-	11	-	-	8	-	-	10	-
	Copper	mg/kg	2.6	270	-	21	-	-	23	-	-	25	-	-	22	-	-	45	-	-	26J-	-
	Lead	mg/kg	1	400	-	31	-	-	31	-	-	36	-	-	32	-	-	38	-	-	33	-
	Manganese	mg/kg	1.5	2000	-	400	-	-	430	-	-	420	-	-	440	-	-	350	-	-	800J	-
	Nickel	mg/kg	4.1	310	-	19	-	-	18	-	-	20	-	-	20	-	-	14	-	-	19	-
	Selenium	mg/kg	0.41	180	-	<0.44U	-	-	0.56J	-	-	<0.45U	-	-	<0.49U	-	-	<0.44U	-	-	0.47J	-
	Silver	mg/kg	0.17	180	-	<0.18U	-	-	<0.19U	-	-	<0.19U	-	-	<0.2U	-	-	<0.18U	-	-	<0.18U	-
	Zinc	mg/kg	2.1	10000	-	66	-	-	67	-	-	75	-	-	74	-	-	72	-	-	76J	-
	Mercury	mg/kg	0.029	0.81	-	0.26	-	-	0.3	-	-	0.45J	-	-	0.29	-	-	0.29	-	-	0.41J+	-

DATA QUALIFIER DEFINITIONS

U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
J+ The analyte was positively identified; however, the associated numerical value is likely to be higher that the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.
J- The analyte was positively identified; however, the associated numerical value is likely to be lower that the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.
UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

TABLE 1
Request to Import/Reuse Fill or Soil - Windrows 1 to 3
Former Sperry Remington Site - North Portion
Elmira, New York

				Field_ID	W2, S2, B 71117	W2, S2, C 71117	W2, S3, A 71117	W2, S3, B 71117	W2, S3, C 71117	W2, S4, A 71117	W2, S4, B 71117	W2, S4, C 71117	W2, S5 A 71117	W2, S5 B 71117	W2, S5 C 71117	W3, S1 A 71117	W3, S1 B 71117	W3, S1, C 71117	W3, S2, A 71117	W3, S2, B 71117	W3, S2, C 71117	W3, S3, A 71117	W3, S3, B 71117	W3, S3, C 71117
				Sample Date	7/11/2017	7/11/2017	7/11/2017	7/11/2017	7/11/2017	7/11/2017	7/11/2017	7/11/2017	7/11/2017	7/11/2017	7/11/2017	7/11/2017	7/11/2017	7/11/2017	7/11/2017	7/11/2017	7/11/2017	7/11/2017	7/11/2017	7/11/2017
				NYSDEC DER10 App 5 Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010																			
Method_Name	**Analyte**	**Units**	**EQL**																					
PCBs	Arochlor 1016	mg/kg	0.0093		-	<0.0099U	-	-	<0.0097U	-	-	<0.0097U	-	-	<0.0094U	-	-	<0.0095U	-	-	<0.0095U	-	-	<0.0096U
	Arochlor 1221	mg/kg	0.0091		-	<0.0097U	-	-	<0.0095U	-	-	<0.0094U	-	-	<0.0092U	-	-	<0.0093U	-	-	<0.0093U	-	-	<0.0094U
	Arochlor 1232	mg/kg	0.0069		-	<0.0074U	-	-	<0.0073U	-	-	<0.0072U	-	-	<0.007U	-	-	<0.0071U	-	-	<0.0071U	-	-	<0.0072U
	Arochlor 1242	mg/kg	0.014		-	<0.015U	-	-	<0.015U	-	-	<0.014U	-	-	<0.014U	-	-	<0.014U	-	-	<0.014U	-	-	<0.014U
	Arochlor 1248	mg/kg	0.018		-	0.74J	-	-	0.69J	-	-	0.7J	-	-	0.7J	-	-	0.67J	-	-	0.65J	-	-	0.88J
	Arochlor 1254	mg/kg	0.018		-	0.52J	-	-	0.56J	-	-	0.48J	-	-	0.48J	-	-	0.47J	-	-	0.44J	-	-	0.59J
	Arochlor 1260	mg/kg	0.018		-	0.2J	-	-	0.16J	-	-	0.16J	-	-	0.17J	-	-	0.17J	-	-	0.15J	-	-	0.17J
	Arochlor 1268	mg/kg	0.0053		-	<0.0057U	-	-	<0.0056U	-	-	<0.0055U	-	-	<0.0054U	-	-	<0.0055U	-	-	<0.0055U	-	-	<0.0055U
	Arochlor 1262	mg/kg	0.013		-	<0.013U	-	-	<0.013U	-	-	<0.013U	-	-	<0.013U	-	-	<0.013U	-	-	<0.013U	-	-	<0.013U
	Total PCBs	mg/kg		1	-	1.46	-	-	1.41	-	-	1.34	-	-	1.35	-	-	1.31	-	-	1.24	-	-	1.64
SVOCs	1,4-Dioxane	mg/kg	0.027	13	-	<0.028U	-	-	<0.054U	-	-	<0.027U	-	-	<0.027U	-	-	<0.054U	-	-	<0.054U	-	-	<0.055U
	2-methylphenol	mg/kg	0.016	100	-	<0.016U	-	-	<0.032U	-	-	<0.016U	-	-	<0.016U	-	-	<0.032U	-	-	<0.032U	-	-	<0.032U
	4-methylphenol	mg/kg	0.016	100	-	<0.017U	-	-	<0.032U	-	-	<0.016U	-	-	0.019J	-	-	<0.032U	-	-	<0.032U	-	-	<0.032U
	Acenaphthene	mg/kg	0.013	100	-	<0.013U	-	-	<0.024U	-	-	0.014J	-	-	0.063	-	-	0.1	-	-	<0.024U	-	-	<0.025U
	Acenaphthylene	mg/kg	0.036	100	-	0.15	-	-	0.23	-	-	0.18	-	-	0.4	-	-	0.55	-	-	0.1	-	-	0.13
	Anthracene	mg/kg	0.036	100	-	0.19	-	-	0.27	-	-	0.21	-	-	1.5	-	-	2.3	-	-	0.12	-	-	0.15
	Benz(a)anthracene	mg/kg	0.036	1	-	0.51	-	-	0.71	-	-	0.68	-	-	2.3	-	-	2.2	-	-	0.53	-	-	0.64
	Benzo(a) pyrene	mg/kg	0.036	1	-	0.55	-	-	0.72	-	-	0.69	-	-	1.9	-	-	2	-	-	0.56	-	-	0.72
	Benzo(b)fluoranthene	mg/kg	0.036	1	-	0.63	-	-	0.99	-	-	0.8	-	-	2.2	-	-	2.2	-	-	0.77	-	-	0.84
	Benzo(g,h,i)perylene	mg/kg	0.036	100	-	0.68	-	-	0.86	-	-	0.84	-	-	1.9	-	-	2	-	-	0.54	-	-	0.73
	Benzo(k)fluoranthene	mg/kg	0.036	3.9	-	0.29	-	-	0.22	-	-	0.34	-	-	0.88	-	-	0.86	-	-	0.21	-	-	0.38
	Chrysene	mg/kg	0.036	3.9	-	0.47	-	-	0.73	-	-	0.67	-	-	2.1	-	-	2	-	-	0.51	-	-	0.56
	Dibenz(a,h)anthracene	mg/kg	0.036	0.33	-	0.16	-	-	0.18	-	-	0.19	-	-	0.41	-	-	0.38	-	-	0.12	-	-	0.19
	Dibenzofuran	mg/kg	0.029	59	-	0.049J	-	-	0.065J	-	-	0.057J	-	-	0.17J	-	-	0.27J	-	-	0.064J	-	-	0.07J
	Fluoranthene	mg/kg	0.036	100	-	0.84	-	-	1.2	-	-	1.1	-	-	5.7	-	-	5.5	-	-	0.73	-	-	0.92
	Fluorene	mg/kg	0.026	100	-	0.032J	-	-	0.037J	-	-	0.039	-	-	0.23	-	-	0.27	-	-	0.033J	-	-	0.042J
	Hexachlorobenzene	mg/kg	0.015	1.2	-	<0.015U	-	-	<0.029U	-	-	<0.015U	-	-	<0.015U	-	-	<0.029U	-	-	<0.029U	-	-	<0.029U
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.036	0.5	-	0.55	-	-	0.72	-	-	0.71	-	-	1.7	-	-	1.7	-	-	0.48	-	-	0.61
	Naphthalene	mg/kg	0.036	100	-	0.17	-	-	0.22	-	-	0.21	-	-	0.38	-	-	0.38	-	-	0.16	-	-	0.18
	Pentachlorophenol	mg/kg	0.34	6.7	-	<0.35U	-	-	<0.68U	-	-	<0.34U	-	-	<0.34U	-	-	<0.68U	-	-	<0.68U	-	-	<0.69U
	Phenanthrene	mg/kg	0.036	100	-	0.35	-	-	0.56	-	-	0.5	-	-	3.7	-	-	5	-	-	0.39	-	-	0.46
	Phenol	mg/kg	0.025	100	-	<0.025U	-	-	<0.048U	-	-	<0.025U	-	-	<0.025U	-	-	<0.048U	-	-	<0.049U	-	-	<0.049U
	Pyrene	mg/kg	0.036	100	-	0.72	-	-	1.1	-	-	0.97	-	-	3.8	-	-	3.7	-	-	0.88	-	-	1.1
VOCs	1,1,1-trichloroethane	mg/kg	0.002	100	<0.0021U	-	<0.004U	<0.0025U	-	<0.002U	<0.003U	-	<0.0054U	<0.002U	-	<0.0028U	<0.0037U	-	<0.0026U	<0.0025U	-	<0.003U	<0.0028U	-
	1,1-dichloroethane	mg/kg	0.0014	26	<0.0015U	-	<0.0029U	<0.0018U	-	<0.0015U	<0.0022U	-	<0.0039U	<0.0014U	-	<0.0021U	<0.0027U	-	<0.0019U	<0.0018U	-	<0.0022U	<0.002U	-
	1,1-dichloroethene	mg/kg	0.0023	100	<0.0023U	-	<0.0045U	<0.0029U	-	<0.0023U	<0.0034U	-	<0.0061U	<0.0023U	-	<0.0032U	<0.0042U	-	<0.003U	<0.0028U	-	<0.0034U	<0.0031U	-
	1,2,4-trimethylbenzene	mg/kg	0.0011	52	<0.0011U	-	<0.0021U	<0.0014U	-	<0.0011U	<0.0016U	-	<0.0029U	<0.0011U	-	<0.0015U	<0.002U	-	<0.0014U	<0.0013U	-	<0.0016U	<0.0015U	-
	1,2-dichlorobenzene	mg/kg	0.0032	100	<0.0033U	-	<0.0064U	<0.0041U	-	<0.0033U	<0.0048U	-	<0.0086U	<0.0032U	-	<0.0046U	<0.006U	-	<0.0042U	<0.004U	-	<0.0048U	<0.0044U	-
	1,2-dichloroethane	mg/kg	0.0012	3.1	<0.0012U	-	<0.0023U	<0.0015U	-	<0.0012U	<0.0017U	-	<0.0031U	<0.0012U	-	<0.0016U	<0.0022U	-	<0.0015U	<0.0014U	-	<0.0017U	<0.0016U	-
	1,3,5-trimethylbenzene	mg/kg	0.0014	52	<0.0014U	-	<0.0027U	<0.0017U	-	<0.0014U	<0.0021U	-	<0.0037U	<0.0014U	-	<0.002U	<0.0026U	-	<0.0018U	<0.0017U	-	<0.0021U	<0.0019U	-
	1,3-dichlorobenzene	mg/kg	0.0013	49	<0.0013U	-	<0.0025U	<0.0016U	-	<0.0013U	<0.0019U	-	<0.0034U	<0.0013U	-	<0.0018U	<0.0024U	-	<0.0017U	<0.0016U	-	<0.0019U	<0.0018U	-
	1,4-dichlorobenzene	mg/kg	0.00081	13	<0.00084U	-	<0.0016U	<0.001U	-	<0.00082U	<0.0012U	-	<0.0022U	<0.00081U	-	<0.0012U	<0.0015U	-	<0.0011U	<0.001U	-	<0.0012U	<0.0011U	-
	Methyl Ethyl Ketone	mg/kg	0.0023	100	<0.0024U	-	<0.0046U	<0.0029U	-	<0.0023U	<0.0035U	-	<0.0062U	<0.0023U	-	<0.0033U	<0.0043U	-	<0.003U	<0.0029U	-	<0.0035U	<0.0032U	-
	Acetone	mg/kg	0.0025	100	<0.0026U	-	<0.005U	<0.0032U	-	<0.0025U	<0.0038U	-	<0.0067U	<0.0025U	-	<0.0036U	<0.0047U	-	<0.0033U	<0.0031U	-	<0.0038U	<0.0035U	-
	Benzene	mg/kg	0.0016	4.8	<0.0016U	-	<0.0031U	<0.002U	-	<0.0016U	<0.0024U	-	<0.0042U	<0.0016U	-	<0.0022U	<0.0029U	-	<0.002U	<0.002U	-	<0.0024U	<0.0022U	-
	Carbon tetrachloride	mg/kg	0.0026	2.4	<0.0027U	-	<0.0052U	<0.0033U	-	<0.0027U	<0.004U	-	<0.0071U	<0.0026U	-	<0.0038U	<0.0049U	-	<0.0034U	<0.0033U	-	<0.004U	<0.0037U	-
	Chlorobenzene	mg/kg	0.0013	100	<0.0013U	-	<0.0025U	<0.0016U	-	<0.0013U	<0.0019U	-	<0.0034U	<0.0013U	-	<0.0018U	<0.0023U	-	<0.0016U	<0.0016U	-	<0.0019U	<0.0017U	-
	Chloroform	mg/kg	0.0017	49	<0.0017U	-	<0.0033U	<0.0021U	-	<0.0017U	<0.0025U	-	<0.0045U	<0.0017U	-	<0.0024U	<0.0031U	-	<0.0022U	<0.0021U	-	<0.0025U	<0.0023U	-
	cis-1,2-dichloroethene	mg/kg	0.0013	100	<0.0013U	-	<0.0025U	<0.0016U	-	<0.0013U	<0.0019U	-	<0.0034U	<0.0013U	-	<0.0018U	<0.0023U	-	<0.0016U	<0.0016U	-	<0.0019U	<0.0017U	-
	Dichloromethane	mg/kg	0.0019	100	<0.0019U	-	<0.0037U	<0.0024U	-	<0.0019U	<0.0028U	-	<0.005U	<0.0019U	-	<0.0027U	<0.0035U	-	<0.0024U	<0.0024U	-	<0.0028U	<0.0026U	-
	Ethylbenzene	mg/kg	0.0017	41	<0.0018U	-	<0.0034U	<0.0022U	-	<0.0017U	<0.0026U	-	<0.0046U	<0.0017U	-	<0.0024U	<0.0032U	-	<0.0022U	<0.0021U	-	<0.0026U	<0.0024U	-
	Methyl-tert-butyl ether	mg/kg	0.0029	100	<0.003U	-	<0.0058U	<0.0037U	-	<0.003U	<0.0044U	-	<0.0079U	<0.0029U	-	<0.0042U	<0.0055U	-	<0.0038U	<0.0037U	-	<0.0044U	<0.0041U	-
	n-butylbenzene	mg/kg	0.003	100	<0.0031U	-	<0.006U	<0.0038U	-	<0.0031U	<0.0045U	-	<0.0081U	<0.003U	-	<0.0043U	<0.0056U	-	<0.0039U	<0.0038U	-	<0.0045U	<0.0042U	-
	n-propylbenzene	mg/kg	0.0017	100	<0.0017U	-	<0.0033U	<0.0021U	-	<0.0017U	<0.0025U	-	<0.0045U	<0.0017U	-	<0.0024U	<0.0031U	-	<0.0022U	<0.0021U	-	<0.0025U	<0.0023U	-
	sec-butylbenzene	mg/kg	0.0019	100	<0.002U	-	<0.0039U	<0.0025U	-	<0.002U	<0.0029U	-	<0.0052U	<0.0019U	-	<0.0028U	<0.0036U	-	<0.0025U	<0.0024U	-	<0.0029U	<0.0027U	-
	Trichloroethene	mg/kg	0.0012	21	<0.0012U	-	<0.0024U	<0.0015U	-	<0.0012U	<0.0018U	-	<0.0032U	<0.0012U	-	<0.0017U	<0.0022U	-	<0.0016U	<0.0015U	-	<0.0018U	<0.0017U	-
	tert-butylbenzene	mg/kg	0.0015	100	<0.0015U	-	<0.0029U	<0.0018U	-	<0.0015U	<0.0022U	-	<0.0039U	<0.0015U	-	<0.0021U	<0.0027U	-	<0.0019U	<0.0018U	-	<0.0022U	<0.002U	-
	Tetrachloroethene	mg/kg	0.0016	19	<0.0016U	-	<0.0032U	<0.002U	-	<0.0016U	<0.0024U	-	<0.0043U	<0.0016U	-	<0.0023U	<0.003U	-	<0.0021U	<0.002U	-	<0.0024U	<0.0022U	-
	Toluene	mg/kg	0.0013	100	<0.0014U	-	<0.0027U	<0.0017U	-	<0.0014U	<0.002U	-	<0.0036U	<0.0013U	-	<0.0019U	<0.0025U	-	<0.0017U	<0.0017U	-	<0.002U	<0.0019U	-
	trans-1,2-dichloroethene	mg/kg	0.002	100	<0.0021U	-	<0.004U	<0.0026U	-	<0.002U	<0.003U	-	<0.0054U	<0.002U	-	<0.0029U	<0.0038U	-	<0.0026U	<0.0025U	-	<0.003U	<0.0028U	-
	Vinyl chloride	mg/kg	0.0029	0.9	<0.003U	-	<0.0058U	<0.0037U	-	<0.003U	<0.0044U	-	<0.0078U	<0.0029U	-	<0.0042U	<0.0055U	-	<0.0038U	<0.0037U	-	<0.0044U	<0.0041U	-
	Xylene Total	mg/kg	0.0034	100	<0.0035U	-	<0.0068U	<0.0043U	-	<0.0035U	<0.0052U	-	<0.0092U	<0.0034U	-	<0.0049U	<0.0064U	-	<0.0045U	<0.0043U	-	<0.0052U	<0.0048U	-
Inorganics	Cyanide Total	mg/kg	0.14	27	-	<0.17U	-	-	<0.16U	-	-	0.29J	-	-	<0.16U	-	-	<0.16U	-	-	0.18J	-	-	0.93
Metals	Arsenic	mg/kg	1	16	-	5.8	-	-	6.4	-	-	5.5J	-	-	5.4	-	-	6.9	-	-	6.8	-	-	5.6
	Barium	mg/kg	21	400	-	77	-	-	80	-	-	86	-	-	69	-	-	79	-	-	69	-	-	77
	Beryllium	mg/kg	0.41	72	-	0.31J	-	-	0.33J	-	-	0.32J	-	-	0.27J	-	-	0.3J	-	-	0.27J	-	-	0.27J
	Cadmium	mg/kg	0.51	4.3	-	0.16J	-	-	0.14J	-	-	0.16J	-	-	0.17J	-	-	0.22J	-	-	0.13J	-	-	0.17J
	Chromium (III+VI)	mg/kg	0.51	110	-	8.5	-	-	8.5	-	-	7.9	-	-	8.7	-	-	9.6	-	-	8.1	-	-	8.2
	Copper	mg/kg	2.6	270	-	28	-	-	86	-	-	32	-	-	34	-	-	58	-	-	35	-	-	38
	Lead	mg/kg	1	400	-	40	-	-	50	-	-	36	-	-	44	-	-	51	-	-	46	-	-	42
	Manganese	mg/kg	1.5	2000	-	320	-	-	340	-	-	360	-	-	270	-	-	400	-	-	320	-	-	340
	Nickel	mg/kg	4.1	310	-	15	-	-	19	-	-	14J	-	-	13	-	-	16	-	-	14	-	-	16
	Selenium	mg/kg	0.41	180	-	0.51J	-	-	<0.43U	-	-	0.84J	-	-	<0.41U	-	-	0.54J	-	-	<0.43U	-	-	0.9J
	Silver	mg/kg	0.17	180	-	<0.19U	-	-	<0.18U	-	-	<0.17U	-	-	<0.17U	-	-	<0.19U	-	-	<0.18U	-	-	<0.17U
	Zinc	mg/kg	2.1	10000	-	76	-	-	81	-	-	69	-	-	75	-	-	83	-	-	69	-	-	75
	Mercury	mg/kg	0.029	0.81	-	0.42	-	-	0.46	-	-	0.65	-	-	0.69	-	-	0.65	-	-	0.61	-	-	0.48

DATA QUALIFIER DEFINITIONS

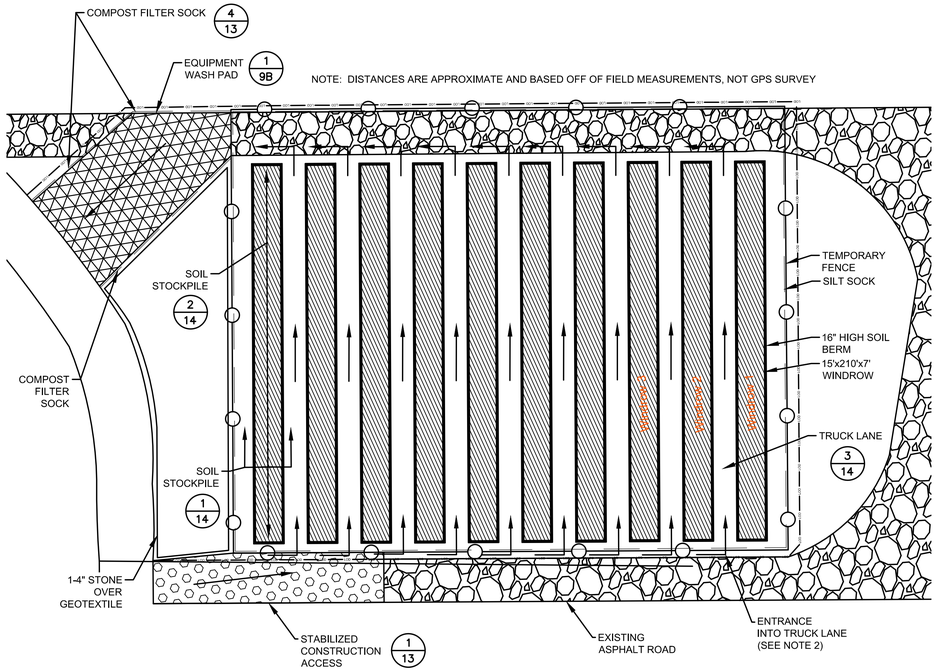
U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
J+ The analyte was positively identified; however, the associated numerical value is likely to be higher that the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.
J- The analyte was positively identified; however, the associated numerical value is likely to be lower that the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.
UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

TABLE 1
Request to Import/Reuse Fill or Soil - Windrows 1 to 3
Former Sperry Remington Site - North Portion
Elmira, New York

				Field_ID	W3, S4, A 71117	W3, S4, B 71117	W3, S4, C 71117	W3, S5, A 71117	W3, S5, B 71117	W3, S5, C 71117	WINDROW1, SEC 1, A
				Sample Date	7/11/2017	7/11/2017	7/11/2017	7/11/2017	7/11/2017	7/11/2017	7/10/2017
Method_Name	Analyte	Units	EQL	NYSDEC DER10 App 5 Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010							
PCBs	Arochlor 1016	mg/kg	0.0093		-	-	<0.0096U	-	-	<0.0093U	-
	Arochlor 1221	mg/kg	0.0091		-	-	<0.0094U	-	-	<0.0091U	-
	Arochlor 1232	mg/kg	0.0069		-	-	<0.0072U	-	-	<0.0069U	-
	Arochlor 1242	mg/kg	0.014		-	-	<0.014U	-	-	<0.014U	-
	Arochlor 1248	mg/kg	0.018		-	-	0.93J	-	-	0.93J	-
	Arochlor 1254	mg/kg	0.018		-	-	0.61J	-	-	0.61J	-
	Arochlor 1260	mg/kg	0.018		-	-	0.19J	-	-	0.18J	-
	Arochlor 1268	mg/kg	0.0053		-	-	<0.0055U	-	-	<0.0053U	-
	Arochlor 1262	mg/kg	0.013		-	-	<0.013U	-	-	<0.013U	-
	Total PCBs	mg/kg		1	-	-	1.73	-	-	1.72	-
SVOCs	1,4-Dioxane	mg/kg	0.027	13	-	-	<0.056U	-	-	<0.054U	-
	2-methylphenol	mg/kg	0.016	100	-	-	<0.033U	-	-	<0.032U	-
	4-methylphenol	mg/kg	0.016	100	-	-	<0.033U	-	-	<0.032U	-
	Acenaphthene	mg/kg	0.013	100	-	-	<0.025U	-	-	<0.024U	-
	Acenaphthylene	mg/kg	0.036	100	-	-	0.15	-	-	0.19	-
	Anthracene	mg/kg	0.036	100	-	-	0.19	-	-	0.26	-
	Benz(a)anthracene	mg/kg	0.036	1	-	-	0.74	-	-	0.96	-
	Benzo(a) pyrene	mg/kg	0.036	1	-	-	0.73	-	-	0.9	-
	Benzo(b)fluoranthene	mg/kg	0.036	1	-	-	0.96	-	-	1.1	-
	Benzo(g,h,i)perylene	mg/kg	0.036	100	-	-	0.75	-	-	0.97	-
	Benzo(k)fluoranthene	mg/kg	0.036	3.9	-	-	0.31	-	-	0.47	-
	Chrysene	mg/kg	0.036	3.9	-	-	0.7	-	-	0.88	-
	Dibenz(a,h)anthracene	mg/kg	0.036	0.33	-	-	0.14	-	-	0.24	-
	Dibenzofuran	mg/kg	0.029	59	-	-	0.068J	-	-	0.072J	-
	Fluoranthene	mg/kg	0.036	100	-	-	1	-	-	1.4	-
	Fluorene	mg/kg	0.026	100	-	-	0.041J	-	-	0.042J	-
	Hexachlorobenzene	mg/kg	0.015	1.2	-	-	<0.03U	-	-	<0.029U	-
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.036	0.5	-	-	0.66	-	-	0.86	-
	Naphthalene	mg/kg	0.036	100	-	-	0.23	-	-	0.23	-
	Pentachlorophenol	mg/kg	0.34	6.7	-	-	<0.7U	-	-	<0.68U	-
	Phenanthrene	mg/kg	0.036	100	-	-	0.57	-	-	0.82	-
	Phenol	mg/kg	0.025	100	-	-	<0.05U	-	-	<0.049U	-
	Pyrene	mg/kg	0.036	100	-	-	1.2	-	-	1.5	-
VOCs	1,1,1-trichloroethane	mg/kg	0.002	100	<0.0026U	<0.0022U	-	<0.0026U	<0.0031U	-	<0.0028U
	1,1-dichloroethane	mg/kg	0.0014	26	<0.0019U	<0.0016U	-	<0.0019U	<0.0022U	-	<0.002U
	1,1-dichloroethene	mg/kg	0.0023	100	<0.0029U	<0.0025U	-	<0.0029U	<0.0035U	-	<0.0032U
	1,2,4-trimethylbenzene	mg/kg	0.0011	52	<0.0014U	<0.0012U	-	<0.0014U	<0.0017U	-	<0.0015U
	1,2-dichlorobenzene	mg/kg	0.0032	100	<0.0041U	<0.0035U	-	<0.0041U	<0.0049U	-	<0.0045U
	1,2-dichloroethane	mg/kg	0.0012	3.1	<0.0015U	<0.0013U	-	<0.0015U	<0.0018U	-	<0.0016U
	1,3,5-trimethylbenzene	mg/kg	0.0014	52	<0.0018U	<0.0015U	-	<0.0018U	<0.0021U	-	<0.0019U
	1,3-dichlorobenzene	mg/kg	0.0013	49	<0.0016U	<0.0014U	-	<0.0016U	<0.002U	-	<0.0018U
	1,4-dichlorobenzene	mg/kg	0.00081	13	<0.001U	<0.0009U	-	<0.0011U	<0.0013U	-	<0.0012U
	Methyl Ethyl Ketone	mg/kg	0.0023	100	<0.003U	<0.0026U	-	<0.003U	<0.0036U	-	<0.0033U
	Acetone	mg/kg	0.0025	100	<0.0032U	<0.0028U	-	<0.0032U	<0.0039U	-	<0.0036U
	Benzene	mg/kg	0.0016	4.8	<0.002U	<0.0017U	-	<0.002U	<0.0024U	-	<0.0022U
	Carbon tetrachloride	mg/kg	0.0026	2.4	<0.0034U	<0.0029U	-	<0.0034U	<0.0041U	-	<0.0037U
	Chlorobenzene	mg/kg	0.0013	100	<0.0016U	<0.0014U	-	<0.0016U	<0.0019U	-	<0.0018U
	Chloroform	mg/kg	0.0017	49	<0.0022U	<0.0019U	-	<0.0022U	<0.0026U	-	<0.0024U
	cis-1,2-dichloroethene	mg/kg	0.0013	100	<0.0016U	<0.0014U	-	<0.0016U	<0.0019U	-	<0.0018U
	Dichloromethane	mg/kg	0.0019	100	<0.0024U	<0.0021U	-	<0.0024U	<0.0029U	-	<0.0027U
	Ethylbenzene	mg/kg	0.0017	41	<0.0022U	<0.0019U	-	<0.0022U	<0.0026U	-	<0.0024U
	Methyl-tert-butyl ether	mg/kg	0.0029	100	<0.0038U	<0.0032U	-	<0.0038U	<0.0045U	-	<0.0042U
	n-butylbenzene	mg/kg	0.003	100	<0.0039U	<0.0033U	-	<0.0039U	<0.0047U	-	<0.0043U
	n-propylbenzene	mg/kg	0.0017	100	<0.0022U	<0.0019U	-	<0.0022U	<0.0026U	-	<0.0024U
	sec-butylbenzene	mg/kg	0.0019	100	<0.0025U	<0.0021U	-	<0.0025U	<0.003U	-	<0.0028U
	Trichloroethene	mg/kg	0.0012	21	<0.0015U	<0.0013U	-	<0.0015U	<0.0018U	-	<0.0017U
	tert-butylbenzene	mg/kg	0.0015	100	<0.0019U	<0.0016U	-	<0.0019U	<0.0022U	-	<0.0021U
	Tetrachloroethene	mg/kg	0.0016	19	<0.0021U	<0.0018U	-	<0.0021U	<0.0025U	-	<0.0023U
	Toluene	mg/kg	0.0013	100	<0.0017U	<0.0015U	-	<0.0017U	<0.0021U	-	<0.0019U
	trans-1,2-dichloroethene	mg/kg	0.002	100	<0.0026U	<0.0022U	-	<0.0026U	<0.0031U	-	<0.0029U
	Vinyl chloride	mg/kg	0.0029	0.9	<0.0038U	<0.0032U	-	<0.0038U	<0.0045U	-	<0.0041U
	Xylene Total	mg/kg	0.0034	100	<0.0044U	<0.0038U	-	<0.0044U	<0.0053U	-	<0.0049U
Inorganics	Cyanide Total	mg/kg	0.14	27	-	-	<0.17U	-	-	<0.17U	-
Metals	Arsenic	mg/kg	1	16	-	-	5.8	-	-	6.2	-
	Barium	mg/kg	21	400	-	-	79	-	-	87	-
	Beryllium	mg/kg	0.41	72	-	-	0.27J	-	-	0.29J	-
	Cadmium	mg/kg	0.51	4.3	-	-	0.14J	-	-	0.19J	-
	Chromium (III+VI)	mg/kg	0.51	110	-	-	8.2	-	-	7.8	-
	Copper	mg/kg	2.6	270	-	-	37	-	-	30	-
	Lead	mg/kg	1	400	-	-	53	-	-	46	-
	Manganese	mg/kg	1.5	2000	-	-	400	-	-	290	-
	Nickel	mg/kg	4.1	310	-	-	15	-	-	16	-
	Selenium	mg/kg	0.41	180	-	-	<0.43U	-	-	<0.42U	-
	Silver	mg/kg	0.17	180	-	-	<0.18U	-	-	<0.17U	-
	Zinc	mg/kg	2.1	10000	-	-	78	-	-	76	-
	Mercury	mg/kg	0.029	0.81	-	-	0.77	-	-	0.49	-

DATA QUALIFIER DEFINITIONS

U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
J+ The analyte was positively identified; however, the associated numerical value is likely to be higher that the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.
J- The analyte was positively identified; however, the associated numerical value is likely to be lower that the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.
UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.



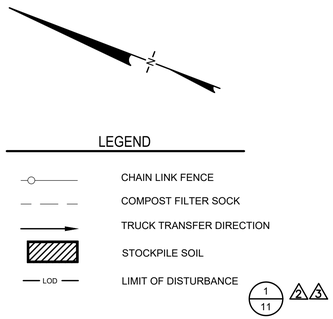
1/14 PLAN
STOCKPILE AREA
NTS

UNLOADING SEQUENCE:

1. TRUCK ENTERS TEMPORARY ENTRANCE INTO MSA.
2. TRUCK PULLS UP TO END OF ACTIVE WINDROW.
3. TRUCK BACKS ONTO ACTIVE WINDROW.
4. TRUCK UNLOADS AT END OF ACTIVE WINDROW.
5. TRUCK PULLS FORWARD INTO TRUCK LANE.
6. TRUCK EXITS ONTO ASPHALT ROAD
7. TRUCK ENTERS EQUIPMENT WASH PAD FOR WET DECON.
8. TRUCK EXITS EQUIPMENT WASH PAD AND RETURNS TO EXCAVATION AREA.

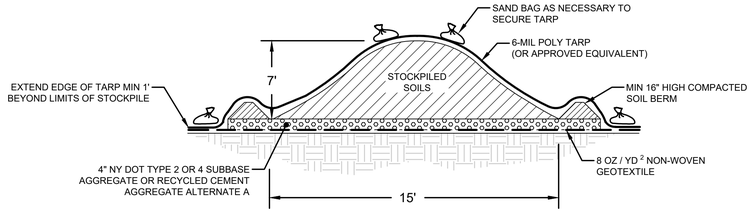
LOADING SEQUENCE:

1. TRUCK ENTERS TEMPORARY ENTRANCE INTO MSA.
2. TRUCK PULLS UP TO ACTIVE WINDROW TO BE LOADED, STAYING IN TRUCK LANE.
3. TRUCK IS LOADED BY EXCAVATOR.
4. TRUCK EXITS ONTO ASPHALT ROAD.
5. TRUCK ENTERS EQUIPMENT WASH PAD FOR WET DECON.
6. TRUCK EXITS EQUIPMENT WASH PAD AND RETURNS TO EXCAVATION AREA.

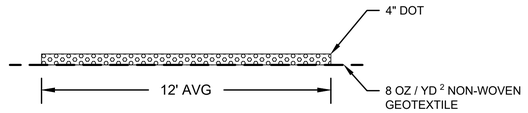


NOTES:

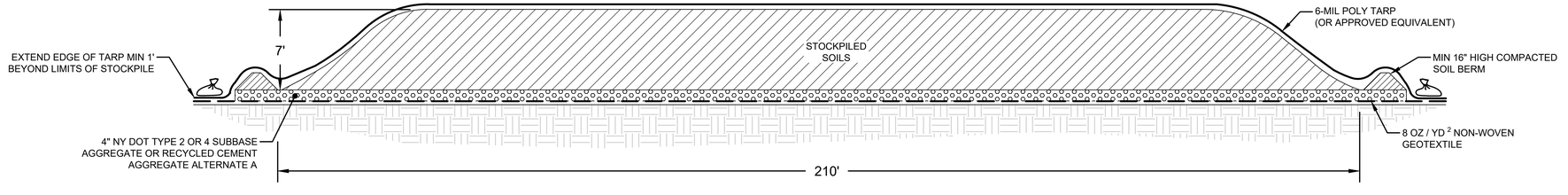
1. CONTRACTOR SHALL UTILIZE EARTH DIKE, COMPOST FILTER SOCK, AND DEWATERING SUMP PIT. 6
2. CONTRACTOR SHALL INSTALL TEMPORARY 6' TALL CHAIN LINK FENCING PARALLEL TO THE LIMITS OF CONSTRUCTION DISTURBANCE. FENCING SHALL INCLUDE VISUAL SCREENING.
3. SECTION(S) OF TEMPORARY FENCE WILL BE REMOVED TO CREATE AN ENTRANCE TO THE MSA AT THE BEGINNING OF EACH DAY OF UNLOADING OR LOADING OPERATIONS. SECTION LOCATION(S) MAY VARY. REMOVED SECTIONS SHALL BE RESTORED AND SECURED AT THE END OF EACH DAY OF MSA OPERATIONS.
4. STOCKPILING OF SOILS FOR POTENTIAL RE-USE SHALL BEGIN AT THE SOUTH END OF THE MSA.
5. STOCKPILING OF SOILS FOR POTENTIAL OFF-SITE TRANSPORT AND DISPOSAL AS NON-HAZARDOUS WASTE WILL BEGIN AT THE NORTH END OF THE MSA.
6. WINDROW LAYOUT ALLOWS FOR STOCKPILING OF APPROX. 4000 CUBIC YARDS (CY) OF SOIL. IF GREATER VOLUME IS REQUIRED, CONTRACTOR MAY REQUEST STOCKPILING OF SOILS WITH LIKE ANALYTICAL RESULTS APPROVED FOR RE-USE OR OFF-SITE DISPOSAL.
7. APPROX. 30 LINEAR FEET OF WINDROW IS EQUIVALENT TO 100 CY.
8. ALL TRUCKS WILL BE WET DECONNED BEFORE LEAVING THE MSA.



1/- DETAIL
SOIL STOCKPILE (SIDE VIEW)



3/- DETAIL
TRUCK LANE



2/- DETAIL
SOIL STOCKPILE (FRONT VIEW)

0 40' 80'
SCALE IN FEET

REV	DATE	DESCRIPTION	DRN	APP
6	7-11-17	ADDRESS NYSDEC COMMENTS	BGF	WMS/AK
5	6-30-17	ADDRESS NYSDEC COMMENTS	BGF	WMS/AK
4	6-13-17	ADDRESS NYSDEC COMMENTS	TSJ	WMS/AK
3	5-31-17	REVISE EXCAVATION AREAS AND SOIL STOCKPILE LOCATION	TSJ	WMS/AK
2	5-12-17	ADDRESS NYSDEC COMMENTS	BGF	WMS/AK
1	4-26-17	ADDRESS NYSDEC COMMENTS	BGF	WMS/AK
0	4-5-17	95% DESIGN - ISSUED FOR BID	TSJ	WMS/AK

Beech and Bonaparte engineering p.c.
an affiliate of Geosyntec Consultants

UNISYS

TITLE: MATERIAL STAGING AREA (MSA) PLAN

PROJECT: INTERIM REMEDIAL MEASURE

SITE: ELMIRA HIGH SCHOOL
ELMIRA, NEW YORK

SIGNATURE
7/11/2017
DATE

ANNA A. KRASNOPOLSKY 089954-1 STATE OF NEW YORK LICENSED PROFESSIONAL ENGINEER

DESIGN BY:		DATE:	MAY 2017
DRAWN BY:	TSJ	PROJECT NO.:	MN0832
CHECKED BY:	AK	FILE:	Stockpile Detail
REVIEWED BY:	PLB	DRAWING NO.:	14
APPROVED BY:	AK	OF	14

P:\Jobs\pw-minneapolis\0832 elmira\0832-400\0832-414.dwg, Stockpile Area, 7/11/2017 2:39:05 PM, bfenick

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

TestAmerica Job ID: 180-68037-1
Client Project/Site: Former Sperry Remington Site - North IRM

For:
Geosyntec Consultants, Inc.
10211 Wincopin Circle
4'th Floor
Columbia, Maryland 21044

Attn: Mr. Aron Krasnopoler

Veronica Bortot

Authorized for release by:
7/17/2017 8:40:57 AM
Veronica Bortot, Senior Project Manager
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veronica.bortot@testamericainc.com

Designee for

David Dunlap, Senior Project Manager
(412)963-2432
david.dunlap@testamericainc.com

LINKS

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Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Receipt Checklists 49

Job ID: 180-68037-1

Laboratory: TestAmerica Pittsburgh

Narrative

Job Narrative
180-68037-1

Comments
No additional comments.

Receipt
The samples were received on 7/11/2017 8:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 1.9º C, 2.0º C and 2.3º C.

GC/MS VOA
Method(s) 8260C: The continuing calibration verification (CCV) analyzed in 180-216640 was outside the method criteria for the following analyte(s): Vinyl Chloride recovered high. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method(s) 8270D LL: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 180-216675 and analytical batch 180-216666 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) 8270D LL: The following samples was diluted due to the nature of the sample matrix (extract viscous, dark in color): DUP2 (180-68037-1), WINDROW1, SEC 3, C (180-68037-2), WINDROW1, SEC 4, C (180-68037-4), WINDROW1, SEC 2, C (180-68037-8), WINDROW1, SEC 1, C (180-68037-11), (180-68037-A-1-B MS) and (180-68037-A-1-C MSD). This was the lowest dilution possible on these samples. Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals
Method(s) 6010C: The post digestion spike % recovery for manganese associated with prep batch 216814 was outside of the control limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

General Chemistry

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc. TestAmerica Job ID: 180-68037-1
Project/Site: Former Sperry Remington Site - North IRM

Laboratory: TestAmerica Pittsburgh

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	11182	03-31-18

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
2540G		Solid	Percent Moisture
2540G		Solid	Percent Solids
8270D LL	3541	Solid	1,4-Dioxane

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68037-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-68037-1	DUP2	Solid	07/10/17 00:00	07/11/17 08:30
180-68037-2	WINDROW1, SEC 3, C	Solid	07/10/17 16:15	07/11/17 08:30
180-68037-3	WINDROW1, SEC 3, B	Solid	07/10/17 16:05	07/11/17 08:30
180-68037-4	WINDROW1, SEC 4, C	Solid	07/10/17 16:40	07/11/17 08:30
180-68037-5	DUP1	Solid	07/10/17 00:00	07/11/17 08:30
180-68037-6	WINDROW1, SEC 3, A	Solid	07/10/17 16:00	07/11/17 08:30
180-68037-7	WINDROW1, SEC 4, B	Solid	07/10/17 16:35	07/11/17 08:30
180-68037-8	WINDROW1, SEC 2, C	Solid	07/10/17 14:55	07/11/17 08:30
180-68037-9	WINDROW1, SEC 2, A	Solid	07/10/17 14:45	07/11/17 08:30
180-68037-10	WINDROW1, SEC 1, A	Solid	07/10/17 14:20	07/11/17 08:30
180-68037-11	WINDROW1, SEC 1, C	Solid	07/10/17 14:30	07/11/17 08:30
180-68037-12	WINDROW1, SEC 4, A	Solid	07/10/17 16:30	07/11/17 08:30
180-68037-13	WINDROW1, SEC 2, B	Solid	07/10/17 14:50	07/11/17 08:30
180-68037-14	WINDROW1, SEC 1, B	Solid	07/10/17 14:25	07/11/17 08:30

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68037-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL PIT
8270D LL	Semivolatile Organic Compounds by GC/MS - Low Level	SW846	TAL PIT
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL PIT
6010C	Metals (ICP)	SW846	TAL PIT
7471B	Mercury (CVAA)	SW846	TAL PIT
2540G	SM 2540G	SM22	TAL PIT
9014	Cyanide	SW846	TAL PIT

Protocol References:

SM22 = SM22

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68037-1

Client Sample ID: DUP2
Date Collected: 07/10/17 00:00
Date Received: 07/11/17 08:30

Lab Sample ID: 180-68037-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216820	07/12/17 12:23	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: DUP2
Date Collected: 07/10/17 00:00
Date Received: 07/11/17 08:30

Lab Sample ID: 180-68037-1
Matrix: Solid
Percent Solids: 88.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	0.5 mL	216675	07/11/17 10:03	MAL	TAL PIT
Total/NA	Analysis	8270D LL		10	1 mL	1 mL	216666	07/11/17 20:02	VVP	TAL PIT
	Instrument ID: CH733									
Total/NA	Prep	3541			15.2 g	20.0 mL	216674	07/11/17 09:57	MAL	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	216716	07/11/17 14:25	CMR	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	216717	07/11/17 14:27	CMR	TAL PIT
Total/NA	Analysis	8082A		1			216665	07/11/17 23:40	JMO	TAL PIT
	Instrument ID: CHGC8									
Total/NA	Prep	3050B			0.99 g	100 mL	216814	07/12/17 11:52	CRM	TAL PIT
Total/NA	Analysis	6010C		1			217031	07/13/17 14:20	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.59 g	100 mL	216844	07/12/17 14:26	RJR	TAL PIT
Total/NA	Analysis	7471B		1			216948	07/13/17 09:21	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.13 g	50 mL	216711	07/11/17 13:12	JAS	TAL PIT
Total/NA	Analysis	9014		1			216832	07/11/17 17:52	JAS	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: WINDROW1, SEC 3, C
Date Collected: 07/10/17 16:15
Date Received: 07/11/17 08:30

Lab Sample ID: 180-68037-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216820	07/12/17 12:23	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: WINDROW1, SEC 3, C
Date Collected: 07/10/17 16:15
Date Received: 07/11/17 08:30

Lab Sample ID: 180-68037-2
Matrix: Solid
Percent Solids: 88.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	0.5 mL	216675	07/11/17 10:03	MAL	TAL PIT
Total/NA	Analysis	8270D LL		10	1 mL	1 mL	216666	07/11/17 21:22	VVP	TAL PIT
	Instrument ID: CH733									
Total/NA	Prep	3541			15.3 g	20.0 mL	216674	07/11/17 09:57	MAL	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	216716	07/11/17 14:25	CMR	TAL PIT

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68037-1

Client Sample ID: WINDROW1, SEC 3, C

Lab Sample ID: 180-68037-2
Date Collected: 07/10/17 16:15
Matrix: Solid
Date Received: 07/11/17 08:30
Percent Solids: 88.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Cleanup	3660B			2 mL	2 mL	216717	07/11/17 14:27	CMR	TAL PIT
Total/NA	Analysis	8082A		1			216665	07/12/17 00:01	JMO	TAL PIT
	Instrument ID: CHGC8									
Total/NA	Prep	3050B			0.99 g	100 mL	216814	07/12/17 11:52	CRM	TAL PIT
Total/NA	Analysis	6010C		1			217031	07/13/17 14:40	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.68 g	100 mL	216844	07/12/17 14:26	RJR	TAL PIT
Total/NA	Analysis	7471B		1			216948	07/13/17 09:27	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.15 g	50 mL	216711	07/11/17 13:12	JAS	TAL PIT
Total/NA	Analysis	9014		1			216832	07/11/17 17:54	JAS	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: WINDROW1, SEC 3, B

Lab Sample ID: 180-68037-3
Date Collected: 07/10/17 16:05
Matrix: Solid
Date Received: 07/11/17 08:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216820	07/12/17 12:23	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: WINDROW1, SEC 3, B

Lab Sample ID: 180-68037-3
Date Collected: 07/10/17 16:05
Matrix: Solid
Date Received: 07/11/17 08:30
Percent Solids: 90.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.4189 g	5 mL	216673	07/11/17 09:23	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	216640	07/11/17 10:49	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: WINDROW1, SEC 4, C

Lab Sample ID: 180-68037-4
Date Collected: 07/10/17 16:40
Matrix: Solid
Date Received: 07/11/17 08:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216820	07/12/17 12:23	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: WINDROW1, SEC 4, C

Lab Sample ID: 180-68037-4
Date Collected: 07/10/17 16:40
Matrix: Solid
Date Received: 07/11/17 08:30
Percent Solids: 89.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	0.5 mL	216675	07/11/17 10:03	MAL	TAL PIT
Total/NA	Analysis	8270D LL		10	1 mL	1 mL	216666	07/11/17 21:48	VVP	TAL PIT
	Instrument ID: CH733									
Total/NA	Prep	3541			15.0 g	20.0 mL	216674	07/11/17 09:57	MAL	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	216716	07/11/17 14:25	CMR	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	216717	07/11/17 14:27	CMR	TAL PIT
Total/NA	Analysis	8082A		1			216665	07/12/17 00:21	JMO	TAL PIT
	Instrument ID: CHGC8									
Total/NA	Prep	3050B			0.91 g	100 mL	216814	07/12/17 11:52	CRM	TAL PIT
Total/NA	Analysis	6010C		1			217031	07/13/17 14:45	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.67 g	100 mL	216844	07/12/17 14:26	RJR	TAL PIT
Total/NA	Analysis	7471B		1			216948	07/13/17 09:29	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.12 g	50 mL	216711	07/11/17 13:12	JAS	TAL PIT
Total/NA	Analysis	9014		1			216832	07/11/17 17:59	JAS	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: DUP1

Lab Sample ID: 180-68037-5
Date Collected: 07/10/17 00:00
Matrix: Solid
Date Received: 07/11/17 08:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216820	07/12/17 12:23	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: DUP1

Lab Sample ID: 180-68037-5
Date Collected: 07/10/17 00:00
Matrix: Solid
Date Received: 07/11/17 08:30
Percent Solids: 88.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.6139 g	5 mL	216673	07/11/17 09:23	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	216640	07/11/17 11:11	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: WINDROW1, SEC 3, A

Lab Sample ID: 180-68037-6
Date Collected: 07/10/17 16:00
Matrix: Solid
Date Received: 07/11/17 08:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216820	07/12/17 12:23	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68037-1

Client Sample ID: WINDROW1, SEC 3, A
Date Collected: 07/10/17 16:00
Date Received: 07/11/17 08:30

Lab Sample ID: 180-68037-6
Matrix: Solid
Percent Solids: 91.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.3575 g	5 mL	216673	07/11/17 09:23	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	216640	07/11/17 11:34	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: WINDROW1, SEC 4, B
Date Collected: 07/10/17 16:35
Date Received: 07/11/17 08:30

Lab Sample ID: 180-68037-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216820	07/12/17 12:23	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: WINDROW1, SEC 4, B
Date Collected: 07/10/17 16:35
Date Received: 07/11/17 08:30

Lab Sample ID: 180-68037-7
Matrix: Solid
Percent Solids: 88.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.7699 g	5 mL	216673	07/11/17 09:23	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	216640	07/11/17 11:56	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: WINDROW1, SEC 2, C
Date Collected: 07/10/17 14:55
Date Received: 07/11/17 08:30

Lab Sample ID: 180-68037-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216820	07/12/17 12:23	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: WINDROW1, SEC 2, C
Date Collected: 07/10/17 14:55
Date Received: 07/11/17 08:30

Lab Sample ID: 180-68037-8
Matrix: Solid
Percent Solids: 89.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	0.5 mL	216675	07/11/17 10:03	MAL	TAL PIT
Total/NA	Analysis	8270D LL		10	1 mL	1 mL	216666	07/11/17 22:15	VVP	TAL PIT
	Instrument ID: CH733									
Total/NA	Prep	3541			15.2 g	20.0 mL	216674	07/11/17 09:59	MAL	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	216716	07/11/17 14:25	CMR	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	216717	07/11/17 14:27	CMR	TAL PIT
Total/NA	Analysis	8082A		1			216665	07/12/17 00:41	JMO	TAL PIT
	Instrument ID: CHGC8									
Total/NA	Prep	3050B			0.96 g	100 mL	216814	07/12/17 11:52	CRM	TAL PIT

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68037-1

Client Sample ID: WINDROW1, SEC 2, C
Date Collected: 07/10/17 14:55
Date Received: 07/11/17 08:30

Lab Sample ID: 180-68037-8
Matrix: Solid
Percent Solids: 89.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	6010C		1			217031	07/13/17 14:50	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.66 g	100 mL	216844	07/12/17 14:26	RJR	TAL PIT
Total/NA	Analysis	7471B		1			216948	07/13/17 09:31	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.06 g	50 mL	216711	07/11/17 13:12	JAS	TAL PIT
Total/NA	Analysis	9014		1			216832	07/11/17 18:01	JAS	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: WINDROW1, SEC 2, A
Date Collected: 07/10/17 14:45
Date Received: 07/11/17 08:30

Lab Sample ID: 180-68037-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216820	07/12/17 12:23	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: WINDROW1, SEC 2, A
Date Collected: 07/10/17 14:45
Date Received: 07/11/17 08:30

Lab Sample ID: 180-68037-9
Matrix: Solid
Percent Solids: 87.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.9784 g	5 mL	216673	07/11/17 09:23	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	216640	07/11/17 12:19	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: WINDROW1, SEC 1, A
Date Collected: 07/10/17 14:20
Date Received: 07/11/17 08:30

Lab Sample ID: 180-68037-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216682	07/11/17 11:08	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: WINDROW1, SEC 1, A
Date Collected: 07/10/17 14:20
Date Received: 07/11/17 08:30

Lab Sample ID: 180-68037-10
Matrix: Solid
Percent Solids: 93.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.7367 g	5 mL	216673	07/11/17 09:23	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	216640	07/11/17 12:41	KLG	TAL PIT
	Instrument ID: CHHP3									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68037-1

Client Sample ID: WINDROW1, SEC 1, C
Lab Sample ID: 180-68037-11
Date Collected: 07/10/17 14:30
Matrix: Solid
Date Received: 07/11/17 08:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216682	07/11/17 11:08	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: WINDROW1, SEC 1, C
Lab Sample ID: 180-68037-11
Date Collected: 07/10/17 14:30
Matrix: Solid
Date Received: 07/11/17 08:30
Percent Solids: 90.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	0.5 mL	216675	07/11/17 10:03	MAL	TAL PIT
Total/NA	Analysis	8270D LL		10	1 mL	1 mL	216666	07/11/17 22:41	VVP	TAL PIT
	Instrument ID: CH733									
Total/NA	Prep	3541			15.0 g	20.0 mL	216674	07/11/17 09:59	MAL	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	216716	07/11/17 14:25	CMR	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	216717	07/11/17 14:27	CMR	TAL PIT
Total/NA	Analysis	8082A		1			216665	07/12/17 01:01	JMO	TAL PIT
	Instrument ID: CHGC8									
Total/NA	Prep	3050B			1.00 g	100 mL	216814	07/12/17 11:52	CRM	TAL PIT
Total/NA	Analysis	6010C		1			217031	07/13/17 14:56	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.59 g	100 mL	216844	07/12/17 14:26	RJR	TAL PIT
Total/NA	Analysis	7471B		1			216948	07/13/17 09:33	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.18 g	50 mL	216711	07/11/17 13:12	JAS	TAL PIT
Total/NA	Analysis	9014		1			216832	07/11/17 18:03	JAS	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: WINDROW1, SEC 4, A
Lab Sample ID: 180-68037-12
Date Collected: 07/10/17 16:30
Matrix: Solid
Date Received: 07/11/17 08:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216682	07/11/17 11:08	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: WINDROW1, SEC 4, A
Lab Sample ID: 180-68037-12
Date Collected: 07/10/17 16:30
Matrix: Solid
Date Received: 07/11/17 08:30
Percent Solids: 86.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.6509 g	5 mL	216673	07/11/17 09:23	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	216640	07/11/17 13:04	KLG	TAL PIT
	Instrument ID: CHHP3									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68037-1

Client Sample ID: WINDROW1, SEC 2, B
Date Collected: 07/10/17 14:50
Date Received: 07/11/17 08:30

Lab Sample ID: 180-68037-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216682	07/11/17 11:08	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: WINDROW1, SEC 2, B
Date Collected: 07/10/17 14:50
Date Received: 07/11/17 08:30

Lab Sample ID: 180-68037-13
Matrix: Solid
Percent Solids: 88.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.5057 g	5 mL	216673	07/11/17 09:23	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	216640	07/11/17 13:26	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: WINDROW1, SEC 1, B
Date Collected: 07/10/17 14:25
Date Received: 07/11/17 08:30

Lab Sample ID: 180-68037-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216682	07/11/17 11:08	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: WINDROW1, SEC 1, B
Date Collected: 07/10/17 14:25
Date Received: 07/11/17 08:30

Lab Sample ID: 180-68037-14
Matrix: Solid
Percent Solids: 91.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.6307 g	5 mL	216673	07/11/17 09:23	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	216640	07/11/17 13:49	KLG	TAL PIT
	Instrument ID: CHHP3									

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Analyst References:

Lab: TAL PIT

Batch Type: Cleanup

CMR = Carl Reagle

Batch Type: Prep

CRM = Caitlin McEvoy

JAS = Joshua Schmidt

KLG = Kathy Gordon

MAL = Michael Lonzo

RJR = Ron Rosenbaum

Batch Type: Analysis

JAS = Joshua Schmidt

JMO = John Oravec

JTL = Justin Landry

KLG = Kathy Gordon

RJG = Rob Good

RJR = Ron Rosenbaum

VVP = Vincent Piccolino

Client Sample ID: DUP2
Date Collected: 07/10/17 00:00
Date Received: 07/11/17 08:30

Lab Sample ID: 180-68037-1
Matrix: Solid
Percent Solids: 88.5

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.076	0.025	mg/Kg	☼	07/11/17 10:03	07/11/17 20:02	10
Acenaphthylene	**0.46**		0.076	0.026	mg/Kg	☼	07/11/17 10:03	07/11/17 20:02	10
Anthracene	**0.22**	**F1**	0.076	0.028	mg/Kg	☼	07/11/17 10:03	07/11/17 20:02	10
Benzo[a]anthracene	**0.53**		0.076	0.030	mg/Kg	☼	07/11/17 10:03	07/11/17 20:02	10
Benzo[a]pyrene	**0.66**		0.076	0.031	mg/Kg	☼	07/11/17 10:03	07/11/17 20:02	10
Benzo[b]fluoranthene	**0.67**		0.076	0.033	mg/Kg	☼	07/11/17 10:03	07/11/17 20:02	10
Benzo[g,h,i]perylene	**0.55**		0.076	0.033	mg/Kg	☼	07/11/17 10:03	07/11/17 20:02	10
Benzo[k]fluoranthene	**0.23**	**F1**	0.076	0.026	mg/Kg	☼	07/11/17 10:03	07/11/17 20:02	10
Chrysene	**0.60**		0.076	0.029	mg/Kg	☼	07/11/17 10:03	07/11/17 20:02	10
Dibenz(a,h)anthracene	**0.13**		0.076	0.031	mg/Kg	☼	07/11/17 10:03	07/11/17 20:02	10
Dibenzofuran	ND	F1	0.37	0.030	mg/Kg	☼	07/11/17 10:03	07/11/17 20:02	10
1,4-Dioxane	ND		0.75	0.057	mg/Kg	☼	07/11/17 10:03	07/11/17 20:02	10
Fluoranthene	**0.45**	**F1**	0.076	0.030	mg/Kg	☼	07/11/17 10:03	07/11/17 20:02	10
Fluorene	**0.055**	**J**	0.076	0.027	mg/Kg	☼	07/11/17 10:03	07/11/17 20:02	10
Hexachlorobenzene	ND		0.076	0.030	mg/Kg	☼	07/11/17 10:03	07/11/17 20:02	10
Indeno[1,2,3-cd]pyrene	**0.39**		0.076	0.029	mg/Kg	☼	07/11/17 10:03	07/11/17 20:02	10
2-Methylphenol	ND		0.37	0.033	mg/Kg	☼	07/11/17 10:03	07/11/17 20:02	10
Methylphenol, 3 & 4	ND		0.37	0.033	mg/Kg	☼	07/11/17 10:03	07/11/17 20:02	10
Naphthalene	**0.098**		0.076	0.027	mg/Kg	☼	07/11/17 10:03	07/11/17 20:02	10
Pentachlorophenol	ND		1.9	0.71	mg/Kg	☼	07/11/17 10:03	07/11/17 20:02	10
Phenanthrene	**0.21**	**F1**	0.076	0.031	mg/Kg	☼	07/11/17 10:03	07/11/17 20:02	10
Phenol	ND		0.37	0.051	mg/Kg	☼	07/11/17 10:03	07/11/17 20:02	10
Pyrene	**0.81**	**F1**	0.076	0.034	mg/Kg	☼	07/11/17 10:03	07/11/17 20:02	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*43*		*42 - 100*	*07/11/17 10:03*	*07/11/17 20:02*	*10*
2-Fluorophenol (Surr)	*40*		*21 - 107*	*07/11/17 10:03*	*07/11/17 20:02*	*10*
Nitrobenzene-d5 (Surr)	*46*		*35 - 109*	*07/11/17 10:03*	*07/11/17 20:02*	*10*
Phenol-d5 (Surr)	*42*		*29 - 105*	*07/11/17 10:03*	*07/11/17 20:02*	*10*
Terphenyl-d14 (Surr)	*49*		*36 - 113*	*07/11/17 10:03*	*07/11/17 20:02*	*10*
2,4,6-Tribromophenol (Surr)	*36*		*20 - 134*	*07/11/17 10:03*	*07/11/17 20:02*	*10*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.019	0.0099	mg/Kg	☼	07/11/17 09:57	07/11/17 23:40	1
PCB-1221	ND		0.019	0.0096	mg/Kg	☼	07/11/17 09:57	07/11/17 23:40	1
PCB-1232	ND		0.019	0.0074	mg/Kg	☼	07/11/17 09:57	07/11/17 23:40	1
PCB-1242	ND		0.019	0.015	mg/Kg	☼	07/11/17 09:57	07/11/17 23:40	1
PCB-1248	**1.1**		0.019	0.0089	mg/Kg	☼	07/11/17 09:57	07/11/17 23:40	1
PCB-1254	**0.70**		0.019	0.0081	mg/Kg	☼	07/11/17 09:57	07/11/17 23:40	1
PCB-1260	**0.17**		0.019	0.012	mg/Kg	☼	07/11/17 09:57	07/11/17 23:40	1
PCB-1262	ND		0.019	0.013	mg/Kg	☼	07/11/17 09:57	07/11/17 23:40	1
PCB-1268	ND		0.019	0.0057	mg/Kg	☼	07/11/17 09:57	07/11/17 23:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*67*		*23 - 150*	*07/11/17 09:57*	*07/11/17 23:40*	*1*
DCB Decachlorobiphenyl (Surr)	*72*		*23 - 150*	*07/11/17 09:57*	*07/11/17 23:40*	*1*
Tetrachloro-m-xylene (Surr)	*77*		*27 - 138*	*07/11/17 09:57*	*07/11/17 23:40*	*1*
Tetrachloro-m-xylene (Surr)	*69*		*27 - 138*	*07/11/17 09:57*	*07/11/17 23:40*	*1*

Client Sample ID: DUP2

Date Collected: 07/10/17 00:00
Date Received: 07/11/17 08:30

Lab Sample ID: 180-68037-1
Matrix: Solid
Percent Solids: 88.5

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.0		1.1	0.50	mg/Kg	☼	07/12/17 11:52	07/13/17 14:20	1
Barium	91		23	6.1	mg/Kg	☼	07/12/17 11:52	07/13/17 14:20	1
Beryllium	0.38	J	0.46	0.12	mg/Kg	☼	07/12/17 11:52	07/13/17 14:20	1
Cadmium	0.20	J	0.57	0.13	mg/Kg	☼	07/12/17 11:52	07/13/17 14:20	1
Chromium	11		0.57	0.15	mg/Kg	☼	07/12/17 11:52	07/13/17 14:20	1
Copper	25		2.9	0.88	mg/Kg	☼	07/12/17 11:52	07/13/17 14:20	1
Lead	34		1.1	0.37	mg/Kg	☼	07/12/17 11:52	07/13/17 14:20	1
Manganese	430		1.7	0.46	mg/Kg	☼	07/12/17 11:52	07/13/17 14:20	1
Nickel	20		4.6	1.0	mg/Kg	☼	07/12/17 11:52	07/13/17 14:20	1
Selenium	0.68	J	1.1	0.45	mg/Kg	☼	07/12/17 11:52	07/13/17 14:20	1
Silver	ND		0.57	0.19	mg/Kg	☼	07/12/17 11:52	07/13/17 14:20	1
Zinc	75		2.3	1.2	mg/Kg	☼	07/12/17 11:52	07/13/17 14:20	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.26		0.038	0.0085	mg/Kg	☼	07/12/17 14:26	07/13/17 09:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	11.5		0.1	0.1	%			07/12/17 12:23	1
Percent Solids	88.5		0.1	0.1	%			07/12/17 12:23	1
Cyanide, Total	ND		0.50	0.15	mg/Kg	☼	07/11/17 13:12	07/11/17 17:52	1

Client Sample ID: WINDROW1, SEC 3, C

Date Collected: 07/10/17 16:15
Date Received: 07/11/17 08:30

Lab Sample ID: 180-68037-2
Matrix: Solid
Percent Solids: 88.7

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.076	0.025	mg/Kg	☼	07/11/17 10:03	07/11/17 21:22	10
Acenaphthylene	0.25		0.076	0.026	mg/Kg	☼	07/11/17 10:03	07/11/17 21:22	10
Anthracene	0.18		0.076	0.028	mg/Kg	☼	07/11/17 10:03	07/11/17 21:22	10
Benzo[a]anthracene	0.52		0.076	0.030	mg/Kg	☼	07/11/17 10:03	07/11/17 21:22	10
Benzo[a]pyrene	0.49		0.076	0.031	mg/Kg	☼	07/11/17 10:03	07/11/17 21:22	10
Benzo[b]fluoranthene	0.62		0.076	0.033	mg/Kg	☼	07/11/17 10:03	07/11/17 21:22	10
Benzo[g,h,i]perylene	0.44		0.076	0.033	mg/Kg	☼	07/11/17 10:03	07/11/17 21:22	10
Benzo[k]fluoranthene	0.23		0.076	0.026	mg/Kg	☼	07/11/17 10:03	07/11/17 21:22	10
Chrysene	0.48		0.076	0.029	mg/Kg	☼	07/11/17 10:03	07/11/17 21:22	10
Dibenz(a,h)anthracene	0.098		0.076	0.031	mg/Kg	☼	07/11/17 10:03	07/11/17 21:22	10
Dibenzofuran	0.035	J	0.37	0.030	mg/Kg	☼	07/11/17 10:03	07/11/17 21:22	10
1,4-Dioxane	ND		0.75	0.057	mg/Kg	☼	07/11/17 10:03	07/11/17 21:22	10
Fluoranthene	0.64		0.076	0.030	mg/Kg	☼	07/11/17 10:03	07/11/17 21:22	10
Fluorene	0.039	J	0.076	0.027	mg/Kg	☼	07/11/17 10:03	07/11/17 21:22	10
Hexachlorobenzene	ND		0.076	0.030	mg/Kg	☼	07/11/17 10:03	07/11/17 21:22	10
Indeno[1,2,3-cd]pyrene	0.35		0.076	0.029	mg/Kg	☼	07/11/17 10:03	07/11/17 21:22	10
2-Methylphenol	ND		0.37	0.033	mg/Kg	☼	07/11/17 10:03	07/11/17 21:22	10
Methylphenol, 3 & 4	ND		0.37	0.033	mg/Kg	☼	07/11/17 10:03	07/11/17 21:22	10
Naphthalene	0.12		0.076	0.027	mg/Kg	☼	07/11/17 10:03	07/11/17 21:22	10
Pentachlorophenol	ND		1.9	0.71	mg/Kg	☼	07/11/17 10:03	07/11/17 21:22	10
Phenanthrene	0.39		0.076	0.031	mg/Kg	☼	07/11/17 10:03	07/11/17 21:22	10

Client Sample ID: WINDROW1, SEC 3, C **Lab Sample ID: 180-68037-2**
Date Collected: 07/10/17 16:15 **Matrix: Solid**
Date Received: 07/11/17 08:30 **Percent Solids: 88.7**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		0.37	0.051	mg/Kg	☼	07/11/17 10:03	07/11/17 21:22	10
Pyrene	**0.82**		0.076	0.033	mg/Kg	☼	07/11/17 10:03	07/11/17 21:22	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*54*		*42 - 100*	*07/11/17 10:03*	*07/11/17 21:22*	*10*
2-Fluorophenol (Surr)	*53*		*21 - 107*	*07/11/17 10:03*	*07/11/17 21:22*	*10*
Nitrobenzene-d5 (Surr)	*61*		*35 - 109*	*07/11/17 10:03*	*07/11/17 21:22*	*10*
Phenol-d5 (Surr)	*58*		*29 - 105*	*07/11/17 10:03*	*07/11/17 21:22*	*10*
Terphenyl-d14 (Surr)	*60*		*36 - 113*	*07/11/17 10:03*	*07/11/17 21:22*	*10*
2,4,6-Tribromophenol (Surr)	*55*		*20 - 134*	*07/11/17 10:03*	*07/11/17 21:22*	*10*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.018	0.0098	mg/Kg	☼	07/11/17 09:57	07/12/17 00:01	1
PCB-1221	ND		0.018	0.0095	mg/Kg	☼	07/11/17 09:57	07/12/17 00:01	1
PCB-1232	ND		0.018	0.0073	mg/Kg	☼	07/11/17 09:57	07/12/17 00:01	1
PCB-1242	ND		0.018	0.015	mg/Kg	☼	07/11/17 09:57	07/12/17 00:01	1
PCB-1248	**1.0**		0.018	0.0088	mg/Kg	☼	07/11/17 09:57	07/12/17 00:01	1
PCB-1254	**0.67**		0.018	0.0081	mg/Kg	☼	07/11/17 09:57	07/12/17 00:01	1
PCB-1260	**0.17**		0.018	0.012	mg/Kg	☼	07/11/17 09:57	07/12/17 00:01	1
PCB-1262	ND		0.018	0.013	mg/Kg	☼	07/11/17 09:57	07/12/17 00:01	1
PCB-1268	ND		0.018	0.0056	mg/Kg	☼	07/11/17 09:57	07/12/17 00:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*65*		*23 - 150*	*07/11/17 09:57*	*07/12/17 00:01*	*1*
DCB Decachlorobiphenyl (Surr)	*69*		*23 - 150*	*07/11/17 09:57*	*07/12/17 00:01*	*1*
Tetrachloro-m-xylene (Surr)	*73*		*27 - 138*	*07/11/17 09:57*	*07/12/17 00:01*	*1*
Tetrachloro-m-xylene (Surr)	*67*		*27 - 138*	*07/11/17 09:57*	*07/12/17 00:01*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**7.4**		1.1	0.50	mg/Kg	☼	07/12/17 11:52	07/13/17 14:40	1
Barium	**92**		23	6.1	mg/Kg	☼	07/12/17 11:52	07/13/17 14:40	1
Beryllium	**0.40**	**J**	0.46	0.12	mg/Kg	☼	07/12/17 11:52	07/13/17 14:40	1
Cadmium	**0.18**	**J**	0.57	0.13	mg/Kg	☼	07/12/17 11:52	07/13/17 14:40	1
Chromium	**12**		0.57	0.15	mg/Kg	☼	07/12/17 11:52	07/13/17 14:40	1
Copper	**25**		2.8	0.88	mg/Kg	☼	07/12/17 11:52	07/13/17 14:40	1
Lead	**36**		1.1	0.37	mg/Kg	☼	07/12/17 11:52	07/13/17 14:40	1
Manganese	**420**		1.7	0.46	mg/Kg	☼	07/12/17 11:52	07/13/17 14:40	1
Nickel	**20**		4.6	1.0	mg/Kg	☼	07/12/17 11:52	07/13/17 14:40	1
Selenium	ND		1.1	0.45	mg/Kg	☼	07/12/17 11:52	07/13/17 14:40	1
Silver	ND		0.57	0.19	mg/Kg	☼	07/12/17 11:52	07/13/17 14:40	1
Zinc	**75**		2.3	1.2	mg/Kg	☼	07/12/17 11:52	07/13/17 14:40	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.45**		0.033	0.0074	mg/Kg	☼	07/12/17 14:26	07/13/17 09:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**11.3**		0.1	0.1	%			07/12/17 12:23	1

Client Sample ID: WINDROW1, SEC 3, C

Lab Sample ID: 180-68037-2
Date Collected: 07/10/17 16:15
Matrix: Solid
Date Received: 07/11/17 08:30
Percent Solids: 88.7

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	88.7		0.1	0.1	%			07/12/17 12:23	1
Cyanide, Total	0.19	J	0.49	0.15	mg/Kg	☼	07/11/17 13:12	07/11/17 17:54	1

Client Sample ID: WINDROW1, SEC 3, B

Lab Sample ID: 180-68037-3
Date Collected: 07/10/17 16:05
Matrix: Solid
Date Received: 07/11/17 08:30
Percent Solids: 90.9

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.020	0.0032	mg/Kg	☼	07/11/17 09:23	07/11/17 10:49	1
Benzene	ND		0.0051	0.0020	mg/Kg	☼	07/11/17 09:23	07/11/17 10:49	1
2-Butanone (MEK)	ND		0.0051	0.0029	mg/Kg	☼	07/11/17 09:23	07/11/17 10:49	1
Carbon tetrachloride	ND		0.0051	0.0034	mg/Kg	☼	07/11/17 09:23	07/11/17 10:49	1
Chlorobenzene	ND		0.0051	0.0016	mg/Kg	☼	07/11/17 09:23	07/11/17 10:49	1
Chloroform	ND		0.0051	0.0021	mg/Kg	☼	07/11/17 09:23	07/11/17 10:49	1
cis-1,2-Dichloroethene	ND		0.0051	0.0016	mg/Kg	☼	07/11/17 09:23	07/11/17 10:49	1
1,2-Dichlorobenzene	ND		0.0051	0.0041	mg/Kg	☼	07/11/17 09:23	07/11/17 10:49	1
1,3-Dichlorobenzene	ND		0.0051	0.0016	mg/Kg	☼	07/11/17 09:23	07/11/17 10:49	1
1,4-Dichlorobenzene	ND		0.0051	0.0010	mg/Kg	☼	07/11/17 09:23	07/11/17 10:49	1
1,1-Dichloroethane	ND		0.0051	0.0018	mg/Kg	☼	07/11/17 09:23	07/11/17 10:49	1
1,2-Dichloroethane	ND		0.0051	0.0015	mg/Kg	☼	07/11/17 09:23	07/11/17 10:49	1
1,1-Dichloroethene	ND		0.0051	0.0029	mg/Kg	☼	07/11/17 09:23	07/11/17 10:49	1
Ethylbenzene	ND		0.0051	0.0022	mg/Kg	☼	07/11/17 09:23	07/11/17 10:49	1
Methylene Chloride	ND		0.0051	0.0024	mg/Kg	☼	07/11/17 09:23	07/11/17 10:49	1
Methyl tert-butyl ether	ND		0.0051	0.0037	mg/Kg	☼	07/11/17 09:23	07/11/17 10:49	1
n-Butylbenzene	ND		0.0051	0.0038	mg/Kg	☼	07/11/17 09:23	07/11/17 10:49	1
N-Propylbenzene	ND		0.0051	0.0021	mg/Kg	☼	07/11/17 09:23	07/11/17 10:49	1
sec-Butylbenzene	ND		0.0051	0.0025	mg/Kg	☼	07/11/17 09:23	07/11/17 10:49	1
tert-Butylbenzene	ND		0.0051	0.0019	mg/Kg	☼	07/11/17 09:23	07/11/17 10:49	1
Tetrachloroethene	ND		0.0051	0.0020	mg/Kg	☼	07/11/17 09:23	07/11/17 10:49	1
Toluene	ND		0.0051	0.0017	mg/Kg	☼	07/11/17 09:23	07/11/17 10:49	1
trans-1,2-Dichloroethene	ND		0.0051	0.0026	mg/Kg	☼	07/11/17 09:23	07/11/17 10:49	1
1,1,1-Trichloroethane	ND		0.0051	0.0025	mg/Kg	☼	07/11/17 09:23	07/11/17 10:49	1
Trichloroethene	ND		0.0051	0.0015	mg/Kg	☼	07/11/17 09:23	07/11/17 10:49	1
1,2,4-Trimethylbenzene	ND		0.0051	0.0014	mg/Kg	☼	07/11/17 09:23	07/11/17 10:49	1
1,3,5-Trimethylbenzene	ND		0.0051	0.0017	mg/Kg	☼	07/11/17 09:23	07/11/17 10:49	1
Vinyl chloride	ND		0.0051	0.0037	mg/Kg	☼	07/11/17 09:23	07/11/17 10:49	1
Xylenes, Total	ND		0.010	0.0044	mg/Kg	☼	07/11/17 09:23	07/11/17 10:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*63 - 120*	*07/11/17 09:23*	*07/11/17 10:49*	*1*
Dibromofluoromethane (Surr)	*90*		*68 - 121*	*07/11/17 09:23*	*07/11/17 10:49*	*1*
1,2-Dichloroethane-d4 (Surr)	*80*		*52 - 124*	*07/11/17 09:23*	*07/11/17 10:49*	*1*
Toluene-d8 (Surr)	*109*		*72 - 127*	*07/11/17 09:23*	*07/11/17 10:49*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.1		0.1	0.1	%			07/12/17 12:23	1
Percent Solids	90.9		0.1	0.1	%			07/12/17 12:23	1

Client Sample ID: WINDROW1, SEC 4, C **Lab Sample ID: 180-68037-4**
Date Collected: 07/10/17 16:40 **Matrix: Solid**
Date Received: 07/11/17 08:30 **Percent Solids: 89.7**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.075	0.025	mg/Kg	☼	07/11/17 10:03	07/11/17 21:48	10
Acenaphthylene	**0.21**		0.075	0.025	mg/Kg	☼	07/11/17 10:03	07/11/17 21:48	10
Anthracene	**0.15**		0.075	0.027	mg/Kg	☼	07/11/17 10:03	07/11/17 21:48	10
Benzo[a]anthracene	**0.33**		0.075	0.029	mg/Kg	☼	07/11/17 10:03	07/11/17 21:48	10
Benzo[a]pyrene	**0.35**		0.075	0.031	mg/Kg	☼	07/11/17 10:03	07/11/17 21:48	10
Benzo[b]fluoranthene	**0.42**		0.075	0.032	mg/Kg	☼	07/11/17 10:03	07/11/17 21:48	10
Benzo[g,h,i]perylene	**0.35**		0.075	0.032	mg/Kg	☼	07/11/17 10:03	07/11/17 21:48	10
Benzo[k]fluoranthene	**0.20**		0.075	0.026	mg/Kg	☼	07/11/17 10:03	07/11/17 21:48	10
Chrysene	**0.33**		0.075	0.029	mg/Kg	☼	07/11/17 10:03	07/11/17 21:48	10
Dibenz(a,h)anthracene	**0.096**		0.075	0.031	mg/Kg	☼	07/11/17 10:03	07/11/17 21:48	10
Dibenzofuran	ND		0.37	0.030	mg/Kg	☼	07/11/17 10:03	07/11/17 21:48	10
1,4-Dioxane	ND		0.74	0.056	mg/Kg	☼	07/11/17 10:03	07/11/17 21:48	10
Fluoranthene	**0.42**		0.075	0.029	mg/Kg	☼	07/11/17 10:03	07/11/17 21:48	10
Fluorene	**0.032**	**J**	0.075	0.026	mg/Kg	☼	07/11/17 10:03	07/11/17 21:48	10
Hexachlorobenzene	ND		0.075	0.030	mg/Kg	☼	07/11/17 10:03	07/11/17 21:48	10
Indeno[1,2,3-cd]pyrene	**0.28**		0.075	0.029	mg/Kg	☼	07/11/17 10:03	07/11/17 21:48	10
2-Methylphenol	ND		0.37	0.033	mg/Kg	☼	07/11/17 10:03	07/11/17 21:48	10
Methylphenol, 3 & 4	ND		0.37	0.033	mg/Kg	☼	07/11/17 10:03	07/11/17 21:48	10
Naphthalene	**0.10**		0.075	0.027	mg/Kg	☼	07/11/17 10:03	07/11/17 21:48	10
Pentachlorophenol	ND		1.9	0.70	mg/Kg	☼	07/11/17 10:03	07/11/17 21:48	10
Phenanthrene	**0.29**		0.075	0.031	mg/Kg	☼	07/11/17 10:03	07/11/17 21:48	10
Phenol	ND		0.37	0.050	mg/Kg	☼	07/11/17 10:03	07/11/17 21:48	10
Pyrene	**0.55**		0.075	0.033	mg/Kg	☼	07/11/17 10:03	07/11/17 21:48	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*45*		*42 - 100*	*07/11/17 10:03*	*07/11/17 21:48*	*10*
2-Fluorophenol (Surr)	*46*		*21 - 107*	*07/11/17 10:03*	*07/11/17 21:48*	*10*
Nitrobenzene-d5 (Surr)	*51*		*35 - 109*	*07/11/17 10:03*	*07/11/17 21:48*	*10*
Phenol-d5 (Surr)	*52*		*29 - 105*	*07/11/17 10:03*	*07/11/17 21:48*	*10*
Terphenyl-d14 (Surr)	*52*		*36 - 113*	*07/11/17 10:03*	*07/11/17 21:48*	*10*
2,4,6-Tribromophenol (Surr)	*49*		*20 - 134*	*07/11/17 10:03*	*07/11/17 21:48*	*10*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.019	0.0099	mg/Kg	☼	07/11/17 09:57	07/12/17 00:21	1
PCB-1221	ND		0.019	0.0096	mg/Kg	☼	07/11/17 09:57	07/12/17 00:21	1
PCB-1232	ND		0.019	0.0074	mg/Kg	☼	07/11/17 09:57	07/12/17 00:21	1
PCB-1242	ND		0.019	0.015	mg/Kg	☼	07/11/17 09:57	07/12/17 00:21	1
PCB-1248	**0.91**		0.019	0.0089	mg/Kg	☼	07/11/17 09:57	07/12/17 00:21	1
PCB-1254	**0.60**		0.019	0.0081	mg/Kg	☼	07/11/17 09:57	07/12/17 00:21	1
PCB-1260	**0.17**		0.019	0.012	mg/Kg	☼	07/11/17 09:57	07/12/17 00:21	1
PCB-1262	ND		0.019	0.013	mg/Kg	☼	07/11/17 09:57	07/12/17 00:21	1
PCB-1268	ND		0.019	0.0057	mg/Kg	☼	07/11/17 09:57	07/12/17 00:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*62*		*23 - 150*	*07/11/17 09:57*	*07/12/17 00:21*	*1*
DCB Decachlorobiphenyl (Surr)	*69*		*23 - 150*	*07/11/17 09:57*	*07/12/17 00:21*	*1*
Tetrachloro-m-xylene (Surr)	*75*		*27 - 138*	*07/11/17 09:57*	*07/12/17 00:21*	*1*
Tetrachloro-m-xylene (Surr)	*70*		*27 - 138*	*07/11/17 09:57*	*07/12/17 00:21*	*1*

Client Sample ID: WINDROW1, SEC 4, C — Lab Sample ID: 180-68037-4

Date Collected: 07/10/17 16:40 — **Matrix: Solid**
Date Received: 07/11/17 08:30 — **Percent Solids: 89.7**

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.4		1.2	0.54	mg/Kg	☼	07/12/17 11:52	07/13/17 14:45	1
Barium	94		25	6.6	mg/Kg	☼	07/12/17 11:52	07/13/17 14:45	1
Beryllium	0.41	J	0.49	0.13	mg/Kg	☼	07/12/17 11:52	07/13/17 14:45	1
Cadmium	0.17	J	0.61	0.14	mg/Kg	☼	07/12/17 11:52	07/13/17 14:45	1
Chromium	11		0.61	0.16	mg/Kg	☼	07/12/17 11:52	07/13/17 14:45	1
Copper	22		3.1	0.94	mg/Kg	☼	07/12/17 11:52	07/13/17 14:45	1
Lead	32		1.2	0.40	mg/Kg	☼	07/12/17 11:52	07/13/17 14:45	1
Manganese	440		1.8	0.50	mg/Kg	☼	07/12/17 11:52	07/13/17 14:45	1
Nickel	20		4.9	1.1	mg/Kg	☼	07/12/17 11:52	07/13/17 14:45	1
Selenium	ND		1.2	0.49	mg/Kg	☼	07/12/17 11:52	07/13/17 14:45	1
Silver	ND		0.61	0.20	mg/Kg	☼	07/12/17 11:52	07/13/17 14:45	1
Zinc	74		2.5	1.2	mg/Kg	☼	07/12/17 11:52	07/13/17 14:45	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.29		0.033	0.0074	mg/Kg	☼	07/12/17 14:26	07/13/17 09:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	10.3		0.1	0.1	%			07/12/17 12:23	1
Percent Solids	89.7		0.1	0.1	%			07/12/17 12:23	1
Cyanide, Total	ND		0.50	0.15	mg/Kg	☼	07/11/17 13:12	07/11/17 17:59	1

Client Sample ID: DUP1 — Lab Sample ID: 180-68037-5

Date Collected: 07/10/17 00:00 — **Matrix: Solid**
Date Received: 07/11/17 08:30 — **Percent Solids: 88.8**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.020	0.0032	mg/Kg	☼	07/11/17 09:23	07/11/17 11:11	1
Benzene	ND		0.0050	0.0020	mg/Kg	☼	07/11/17 09:23	07/11/17 11:11	1
2-Butanone (MEK)	ND		0.0050	0.0029	mg/Kg	☼	07/11/17 09:23	07/11/17 11:11	1
Carbon tetrachloride	ND		0.0050	0.0033	mg/Kg	☼	07/11/17 09:23	07/11/17 11:11	1
Chlorobenzene	ND		0.0050	0.0016	mg/Kg	☼	07/11/17 09:23	07/11/17 11:11	1
Chloroform	ND		0.0050	0.0021	mg/Kg	☼	07/11/17 09:23	07/11/17 11:11	1
cis-1,2-Dichloroethene	ND		0.0050	0.0016	mg/Kg	☼	07/11/17 09:23	07/11/17 11:11	1
1,2-Dichlorobenzene	ND		0.0050	0.0040	mg/Kg	☼	07/11/17 09:23	07/11/17 11:11	1
1,3-Dichlorobenzene	ND		0.0050	0.0016	mg/Kg	☼	07/11/17 09:23	07/11/17 11:11	1
1,4-Dichlorobenzene	ND		0.0050	0.0010	mg/Kg	☼	07/11/17 09:23	07/11/17 11:11	1
1,1-Dichloroethane	ND		0.0050	0.0018	mg/Kg	☼	07/11/17 09:23	07/11/17 11:11	1
1,2-Dichloroethane	ND		0.0050	0.0015	mg/Kg	☼	07/11/17 09:23	07/11/17 11:11	1
1,1-Dichloroethene	ND		0.0050	0.0029	mg/Kg	☼	07/11/17 09:23	07/11/17 11:11	1
Ethylbenzene	ND		0.0050	0.0022	mg/Kg	☼	07/11/17 09:23	07/11/17 11:11	1
Methylene Chloride	ND		0.0050	0.0024	mg/Kg	☼	07/11/17 09:23	07/11/17 11:11	1
Methyl tert-butyl ether	ND		0.0050	0.0037	mg/Kg	☼	07/11/17 09:23	07/11/17 11:11	1
n-Butylbenzene	ND		0.0050	0.0038	mg/Kg	☼	07/11/17 09:23	07/11/17 11:11	1
N-Propylbenzene	ND		0.0050	0.0021	mg/Kg	☼	07/11/17 09:23	07/11/17 11:11	1
sec-Butylbenzene	ND		0.0050	0.0024	mg/Kg	☼	07/11/17 09:23	07/11/17 11:11	1
tert-Butylbenzene	ND		0.0050	0.0018	mg/Kg	☼	07/11/17 09:23	07/11/17 11:11	1
Tetrachloroethene	ND		0.0050	0.0020	mg/Kg	☼	07/11/17 09:23	07/11/17 11:11	1

Client Sample ID: DUP1

Date Collected: 07/10/17 00:00
Date Received: 07/11/17 08:30

Lab Sample ID: 180-68037-5

Matrix: Solid
Percent Solids: 88.8

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		0.0050	0.0017	mg/Kg	☼	07/11/17 09:23	07/11/17 11:11	1
trans-1,2-Dichloroethene	ND		0.0050	0.0025	mg/Kg	☼	07/11/17 09:23	07/11/17 11:11	1
1,1,1-Trichloroethane	ND		0.0050	0.0025	mg/Kg	☼	07/11/17 09:23	07/11/17 11:11	1
Trichloroethene	ND		0.0050	0.0015	mg/Kg	☼	07/11/17 09:23	07/11/17 11:11	1
1,2,4-Trimethylbenzene	ND		0.0050	0.0014	mg/Kg	☼	07/11/17 09:23	07/11/17 11:11	1
1,3,5-Trimethylbenzene	ND		0.0050	0.0017	mg/Kg	☼	07/11/17 09:23	07/11/17 11:11	1
Vinyl chloride	ND		0.0050	0.0037	mg/Kg	☼	07/11/17 09:23	07/11/17 11:11	1
Xylenes, Total	ND		0.010	0.0043	mg/Kg	☼	07/11/17 09:23	07/11/17 11:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*63 - 120*	*07/11/17 09:23*	*07/11/17 11:11*	*1*
Dibromofluoromethane (Surr)	*90*		*68 - 121*	*07/11/17 09:23*	*07/11/17 11:11*	*1*
1,2-Dichloroethane-d4 (Surr)	*80*		*52 - 124*	*07/11/17 09:23*	*07/11/17 11:11*	*1*
Toluene-d8 (Surr)	*114*		*72 - 127*	*07/11/17 09:23*	*07/11/17 11:11*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**11.2**		0.1	0.1	%			07/12/17 12:23	1
Percent Solids	**88.8**		0.1	0.1	%			07/12/17 12:23	1

Client Sample ID: WINDROW1, SEC 3, A

Date Collected: 07/10/17 16:00
Date Received: 07/11/17 08:30

Lab Sample ID: 180-68037-6

Matrix: Solid
Percent Solids: 91.9

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.020	0.0032	mg/Kg	☼	07/11/17 09:23	07/11/17 11:34	1
Benzene	ND		0.0051	0.0020	mg/Kg	☼	07/11/17 09:23	07/11/17 11:34	1
2-Butanone (MEK)	ND		0.0051	0.0029	mg/Kg	☼	07/11/17 09:23	07/11/17 11:34	1
Carbon tetrachloride	ND		0.0051	0.0034	mg/Kg	☼	07/11/17 09:23	07/11/17 11:34	1
Chlorobenzene	ND		0.0051	0.0016	mg/Kg	☼	07/11/17 09:23	07/11/17 11:34	1
Chloroform	ND		0.0051	0.0021	mg/Kg	☼	07/11/17 09:23	07/11/17 11:34	1
cis-1,2-Dichloroethene	ND		0.0051	0.0016	mg/Kg	☼	07/11/17 09:23	07/11/17 11:34	1
1,2-Dichlorobenzene	ND		0.0051	0.0041	mg/Kg	☼	07/11/17 09:23	07/11/17 11:34	1
1,3-Dichlorobenzene	ND		0.0051	0.0016	mg/Kg	☼	07/11/17 09:23	07/11/17 11:34	1
1,4-Dichlorobenzene	ND		0.0051	0.0010	mg/Kg	☼	07/11/17 09:23	07/11/17 11:34	1
1,1-Dichloroethane	ND		0.0051	0.0018	mg/Kg	☼	07/11/17 09:23	07/11/17 11:34	1
1,2-Dichloroethane	ND		0.0051	0.0015	mg/Kg	☼	07/11/17 09:23	07/11/17 11:34	1
1,1-Dichloroethene	ND		0.0051	0.0029	mg/Kg	☼	07/11/17 09:23	07/11/17 11:34	1
Ethylbenzene	ND		0.0051	0.0022	mg/Kg	☼	07/11/17 09:23	07/11/17 11:34	1
Methylene Chloride	ND		0.0051	0.0024	mg/Kg	☼	07/11/17 09:23	07/11/17 11:34	1
Methyl tert-butyl ether	ND		0.0051	0.0037	mg/Kg	☼	07/11/17 09:23	07/11/17 11:34	1
n-Butylbenzene	ND		0.0051	0.0038	mg/Kg	☼	07/11/17 09:23	07/11/17 11:34	1
N-Propylbenzene	ND		0.0051	0.0021	mg/Kg	☼	07/11/17 09:23	07/11/17 11:34	1
sec-Butylbenzene	ND		0.0051	0.0025	mg/Kg	☼	07/11/17 09:23	07/11/17 11:34	1
tert-Butylbenzene	ND		0.0051	0.0019	mg/Kg	☼	07/11/17 09:23	07/11/17 11:34	1
Tetrachloroethene	ND		0.0051	0.0020	mg/Kg	☼	07/11/17 09:23	07/11/17 11:34	1
Toluene	ND		0.0051	0.0017	mg/Kg	☼	07/11/17 09:23	07/11/17 11:34	1
trans-1,2-Dichloroethene	ND		0.0051	0.0026	mg/Kg	☼	07/11/17 09:23	07/11/17 11:34	1
1,1,1-Trichloroethane	ND		0.0051	0.0025	mg/Kg	☼	07/11/17 09:23	07/11/17 11:34	1

Client Sample ID: WINDROW1, SEC 3, A

Lab Sample ID: 180-68037-6
Date Collected: 07/10/17 16:00
Matrix: Solid
Date Received: 07/11/17 08:30
Percent Solids: 91.9

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	ND		0.0051	0.0015	mg/Kg	☼	07/11/17 09:23	07/11/17 11:34	1
1,2,4-Trimethylbenzene	ND		0.0051	0.0014	mg/Kg	☼	07/11/17 09:23	07/11/17 11:34	1
1,3,5-Trimethylbenzene	ND		0.0051	0.0017	mg/Kg	☼	07/11/17 09:23	07/11/17 11:34	1
Vinyl chloride	ND		0.0051	0.0037	mg/Kg	☼	07/11/17 09:23	07/11/17 11:34	1
Xylenes, Total	ND		0.010	0.0044	mg/Kg	☼	07/11/17 09:23	07/11/17 11:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*63 - 120*	*07/11/17 09:23*	*07/11/17 11:34*	*1*
Dibromofluoromethane (Surr)	*96*		*68 - 121*	*07/11/17 09:23*	*07/11/17 11:34*	*1*
1,2-Dichloroethane-d4 (Surr)	*87*		*52 - 124*	*07/11/17 09:23*	*07/11/17 11:34*	*1*
Toluene-d8 (Surr)	*119*		*72 - 127*	*07/11/17 09:23*	*07/11/17 11:34*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**8.1**		0.1	0.1	%			07/12/17 12:23	1
Percent Solids	**91.9**		0.1	0.1	%			07/12/17 12:23	1

Client Sample ID: WINDROW1, SEC 4, B

Lab Sample ID: 180-68037-7
Date Collected: 07/10/17 16:35
Matrix: Solid
Date Received: 07/11/17 08:30
Percent Solids: 88.9

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.017	0.0026	mg/Kg	☼	07/11/17 09:23	07/11/17 11:56	1
Benzene	ND		0.0042	0.0016	mg/Kg	☼	07/11/17 09:23	07/11/17 11:56	1
2-Butanone (MEK)	ND		0.0042	0.0024	mg/Kg	☼	07/11/17 09:23	07/11/17 11:56	1
Carbon tetrachloride	ND		0.0042	0.0028	mg/Kg	☼	07/11/17 09:23	07/11/17 11:56	1
Chlorobenzene	ND		0.0042	0.0013	mg/Kg	☼	07/11/17 09:23	07/11/17 11:56	1
Chloroform	ND		0.0042	0.0018	mg/Kg	☼	07/11/17 09:23	07/11/17 11:56	1
cis-1,2-Dichloroethene	ND		0.0042	0.0013	mg/Kg	☼	07/11/17 09:23	07/11/17 11:56	1
1,2-Dichlorobenzene	ND		0.0042	0.0033	mg/Kg	☼	07/11/17 09:23	07/11/17 11:56	1
1,3-Dichlorobenzene	ND		0.0042	0.0013	mg/Kg	☼	07/11/17 09:23	07/11/17 11:56	1
1,4-Dichlorobenzene	ND		0.0042	0.00085	mg/Kg	☼	07/11/17 09:23	07/11/17 11:56	1
1,1-Dichloroethane	ND		0.0042	0.0015	mg/Kg	☼	07/11/17 09:23	07/11/17 11:56	1
1,2-Dichloroethane	ND		0.0042	0.0012	mg/Kg	☼	07/11/17 09:23	07/11/17 11:56	1
1,1-Dichloroethene	ND		0.0042	0.0024	mg/Kg	☼	07/11/17 09:23	07/11/17 11:56	1
Ethylbenzene	ND		0.0042	0.0018	mg/Kg	☼	07/11/17 09:23	07/11/17 11:56	1
Methylene Chloride	ND		0.0042	0.0020	mg/Kg	☼	07/11/17 09:23	07/11/17 11:56	1
Methyl tert-butyl ether	ND		0.0042	0.0031	mg/Kg	☼	07/11/17 09:23	07/11/17 11:56	1
n-Butylbenzene	ND		0.0042	0.0031	mg/Kg	☼	07/11/17 09:23	07/11/17 11:56	1
N-Propylbenzene	ND		0.0042	0.0018	mg/Kg	☼	07/11/17 09:23	07/11/17 11:56	1
sec-Butylbenzene	ND		0.0042	0.0020	mg/Kg	☼	07/11/17 09:23	07/11/17 11:56	1
tert-Butylbenzene	ND		0.0042	0.0015	mg/Kg	☼	07/11/17 09:23	07/11/17 11:56	1
Tetrachloroethene	ND		0.0042	0.0017	mg/Kg	☼	07/11/17 09:23	07/11/17 11:56	1
Toluene	ND		0.0042	0.0014	mg/Kg	☼	07/11/17 09:23	07/11/17 11:56	1
trans-1,2-Dichloroethene	ND		0.0042	0.0021	mg/Kg	☼	07/11/17 09:23	07/11/17 11:56	1
1,1,1-Trichloroethane	ND		0.0042	0.0021	mg/Kg	☼	07/11/17 09:23	07/11/17 11:56	1
Trichloroethene	ND		0.0042	0.0012	mg/Kg	☼	07/11/17 09:23	07/11/17 11:56	1
1,2,4-Trimethylbenzene	ND		0.0042	0.0011	mg/Kg	☼	07/11/17 09:23	07/11/17 11:56	1
1,3,5-Trimethylbenzene	ND		0.0042	0.0014	mg/Kg	☼	07/11/17 09:23	07/11/17 11:56	1

Client Sample ID: WINDROW1, SEC 4, B

Lab Sample ID: 180-68037-7
Date Collected: 07/10/17 16:35
Matrix: Solid
Date Received: 07/11/17 08:30
Percent Solids: 88.9

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		0.0042	0.0030	mg/Kg	☼	07/11/17 09:23	07/11/17 11:56	1
Xylenes, Total	ND		0.0083	0.0036	mg/Kg	☼	07/11/17 09:23	07/11/17 11:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*63 - 120*	*07/11/17 09:23*	*07/11/17 11:56*	*1*
Dibromofluoromethane (Surr)	*96*		*68 - 121*	*07/11/17 09:23*	*07/11/17 11:56*	*1*
1,2-Dichloroethane-d4 (Surr)	*89*		*52 - 124*	*07/11/17 09:23*	*07/11/17 11:56*	*1*
Toluene-d8 (Surr)	*119*		*72 - 127*	*07/11/17 09:23*	*07/11/17 11:56*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**11.1**		0.1	0.1	%			07/12/17 12:23	1
Percent Solids	**88.9**		0.1	0.1	%			07/12/17 12:23	1

Client Sample ID: WINDROW1, SEC 2, C

Lab Sample ID: 180-68037-8
Date Collected: 07/10/17 14:55
Matrix: Solid
Date Received: 07/11/17 08:30
Percent Solids: 89.4

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.075	0.025	mg/Kg	☼	07/11/17 10:03	07/11/17 22:15	10
Acenaphthylene	**0.21**		0.075	0.025	mg/Kg	☼	07/11/17 10:03	07/11/17 22:15	10
Anthracene	**0.19**		0.075	0.028	mg/Kg	☼	07/11/17 10:03	07/11/17 22:15	10
Benzo[a]anthracene	**0.36**		0.075	0.030	mg/Kg	☼	07/11/17 10:03	07/11/17 22:15	10
Benzo[a]pyrene	**0.37**		0.075	0.031	mg/Kg	☼	07/11/17 10:03	07/11/17 22:15	10
Benzo[b]fluoranthene	**0.45**		0.075	0.032	mg/Kg	☼	07/11/17 10:03	07/11/17 22:15	10
Benzo[g,h,i]perylene	**0.34**		0.075	0.032	mg/Kg	☼	07/11/17 10:03	07/11/17 22:15	10
Benzo[k]fluoranthene	**0.17**		0.075	0.026	mg/Kg	☼	07/11/17 10:03	07/11/17 22:15	10
Chrysene	**0.35**		0.075	0.029	mg/Kg	☼	07/11/17 10:03	07/11/17 22:15	10
Dibenz(a,h)anthracene	**0.085**		0.075	0.031	mg/Kg	☼	07/11/17 10:03	07/11/17 22:15	10
Dibenzofuran	ND		0.37	0.030	mg/Kg	☼	07/11/17 10:03	07/11/17 22:15	10
1,4-Dioxane	ND		0.75	0.056	mg/Kg	☼	07/11/17 10:03	07/11/17 22:15	10
Fluoranthene	**0.49**		0.075	0.029	mg/Kg	☼	07/11/17 10:03	07/11/17 22:15	10
Fluorene	ND		0.075	0.027	mg/Kg	☼	07/11/17 10:03	07/11/17 22:15	10
Hexachlorobenzene	ND		0.075	0.030	mg/Kg	☼	07/11/17 10:03	07/11/17 22:15	10
Indeno[1,2,3-cd]pyrene	**0.27**		0.075	0.029	mg/Kg	☼	07/11/17 10:03	07/11/17 22:15	10
2-Methylphenol	ND		0.37	0.033	mg/Kg	☼	07/11/17 10:03	07/11/17 22:15	10
Methylphenol, 3 & 4	ND		0.37	0.033	mg/Kg	☼	07/11/17 10:03	07/11/17 22:15	10
Naphthalene	**0.081**		0.075	0.027	mg/Kg	☼	07/11/17 10:03	07/11/17 22:15	10
Pentachlorophenol	ND		1.9	0.71	mg/Kg	☼	07/11/17 10:03	07/11/17 22:15	10
Phenanthrene	**0.33**		0.075	0.031	mg/Kg	☼	07/11/17 10:03	07/11/17 22:15	10
Phenol	ND		0.37	0.050	mg/Kg	☼	07/11/17 10:03	07/11/17 22:15	10
Pyrene	**0.60**		0.075	0.033	mg/Kg	☼	07/11/17 10:03	07/11/17 22:15	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*43*		*42 - 100*	*07/11/17 10:03*	*07/11/17 22:15*	*10*
2-Fluorophenol (Surr)	*44*		*21 - 107*	*07/11/17 10:03*	*07/11/17 22:15*	*10*
Nitrobenzene-d5 (Surr)	*50*		*35 - 109*	*07/11/17 10:03*	*07/11/17 22:15*	*10*
Phenol-d5 (Surr)	*46*		*29 - 105*	*07/11/17 10:03*	*07/11/17 22:15*	*10*
Terphenyl-d14 (Surr)	*50*		*36 - 113*	*07/11/17 10:03*	*07/11/17 22:15*	*10*

Client Sample ID: WINDROW1, SEC 2, C
Date Collected: 07/10/17 14:55
Date Received: 07/11/17 08:30

Lab Sample ID: 180-68037-8
Matrix: Solid
Percent Solids: 89.4

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	*46*		*20 - 134*	*07/11/17 10:03*	*07/11/17 22:15*	*10*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.018	0.0098	mg/Kg	☼	07/11/17 09:59	07/12/17 00:41	1
PCB-1221	ND		0.018	0.0095	mg/Kg	☼	07/11/17 09:59	07/12/17 00:41	1
PCB-1232	ND		0.018	0.0073	mg/Kg	☼	07/11/17 09:59	07/12/17 00:41	1
PCB-1242	ND		0.018	0.015	mg/Kg	☼	07/11/17 09:59	07/12/17 00:41	1
PCB-1248	**1.1**		0.018	0.0088	mg/Kg	☼	07/11/17 09:59	07/12/17 00:41	1
PCB-1254	**0.68**		0.018	0.0081	mg/Kg	☼	07/11/17 09:59	07/12/17 00:41	1
PCB-1260	**0.18**		0.018	0.012	mg/Kg	☼	07/11/17 09:59	07/12/17 00:41	1
PCB-1262	ND		0.018	0.013	mg/Kg	☼	07/11/17 09:59	07/12/17 00:41	1
PCB-1268	ND		0.018	0.0056	mg/Kg	☼	07/11/17 09:59	07/12/17 00:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	*65*		*23 - 150*	*07/11/17 09:59*	*07/12/17 00:41*	*1*
DCB Decachlorobiphenyl (Surr)	*70*		*23 - 150*	*07/11/17 09:59*	*07/12/17 00:41*	*1*
Tetrachloro-m-xylene (Surr)	*77*		*27 - 138*	*07/11/17 09:59*	*07/12/17 00:41*	*1*
Tetrachloro-m-xylene (Surr)	*70*		*27 - 138*	*07/11/17 09:59*	*07/12/17 00:41*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**6.5**		1.2	0.51	mg/Kg	☼	07/12/17 11:52	07/13/17 14:50	1
Barium	**83**		23	6.3	mg/Kg	☼	07/12/17 11:52	07/13/17 14:50	1
Beryllium	**0.37**	**J**	0.47	0.12	mg/Kg	☼	07/12/17 11:52	07/13/17 14:50	1
Cadmium	**0.17**	**J**	0.58	0.13	mg/Kg	☼	07/12/17 11:52	07/13/17 14:50	1
Chromium	**10**		0.58	0.15	mg/Kg	☼	07/12/17 11:52	07/13/17 14:50	1
Copper	**23**		2.9	0.90	mg/Kg	☼	07/12/17 11:52	07/13/17 14:50	1
Lead	**31**		1.2	0.38	mg/Kg	☼	07/12/17 11:52	07/13/17 14:50	1
Manganese	**430**		1.7	0.47	mg/Kg	☼	07/12/17 11:52	07/13/17 14:50	1
Nickel	**18**		4.7	1.0	mg/Kg	☼	07/12/17 11:52	07/13/17 14:50	1
Selenium	**0.56**	**J**	1.2	0.46	mg/Kg	☼	07/12/17 11:52	07/13/17 14:50	1
Silver	ND		0.58	0.19	mg/Kg	☼	07/12/17 11:52	07/13/17 14:50	1
Zinc	**67**		2.3	1.2	mg/Kg	☼	07/12/17 11:52	07/13/17 14:50	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.30**		0.034	0.0075	mg/Kg	☼	07/12/17 14:26	07/13/17 09:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**10.6**		0.1	0.1	%			07/12/17 12:23	1
Percent Solids	**89.4**		0.1	0.1	%			07/12/17 12:23	1
Cyanide, Total	ND		0.53	0.16	mg/Kg	☼	07/11/17 13:12	07/11/17 18:01	1

Client Sample ID: WINDROW1, SEC 2, A — Lab Sample ID: 180-68037-9

Date Collected: 07/10/17 14:45 — **Matrix: Solid**
Date Received: 07/11/17 08:30 — **Percent Solids: 87.5**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.023	0.0036	mg/Kg	☼	07/11/17 09:23	07/11/17 12:19	1
Benzene	ND		0.0057	0.0023	mg/Kg	☼	07/11/17 09:23	07/11/17 12:19	1
2-Butanone (MEK)	ND		0.0057	0.0033	mg/Kg	☼	07/11/17 09:23	07/11/17 12:19	1
Carbon tetrachloride	ND		0.0057	0.0038	mg/Kg	☼	07/11/17 09:23	07/11/17 12:19	1
Chlorobenzene	ND		0.0057	0.0018	mg/Kg	☼	07/11/17 09:23	07/11/17 12:19	1
Chloroform	ND		0.0057	0.0024	mg/Kg	☼	07/11/17 09:23	07/11/17 12:19	1
cis-1,2-Dichloroethene	ND		0.0057	0.0018	mg/Kg	☼	07/11/17 09:23	07/11/17 12:19	1
1,2-Dichlorobenzene	ND		0.0057	0.0046	mg/Kg	☼	07/11/17 09:23	07/11/17 12:19	1
1,3-Dichlorobenzene	ND		0.0057	0.0018	mg/Kg	☼	07/11/17 09:23	07/11/17 12:19	1
1,4-Dichlorobenzene	ND		0.0057	0.0012	mg/Kg	☼	07/11/17 09:23	07/11/17 12:19	1
1,1-Dichloroethane	ND		0.0057	0.0021	mg/Kg	☼	07/11/17 09:23	07/11/17 12:19	1
1,2-Dichloroethane	ND		0.0057	0.0017	mg/Kg	☼	07/11/17 09:23	07/11/17 12:19	1
1,1-Dichloroethene	ND		0.0057	0.0033	mg/Kg	☼	07/11/17 09:23	07/11/17 12:19	1
Ethylbenzene	ND		0.0057	0.0025	mg/Kg	☼	07/11/17 09:23	07/11/17 12:19	1
Methylene Chloride	ND		0.0057	0.0027	mg/Kg	☼	07/11/17 09:23	07/11/17 12:19	1
Methyl tert-butyl ether	ND		0.0057	0.0042	mg/Kg	☼	07/11/17 09:23	07/11/17 12:19	1
n-Butylbenzene	ND		0.0057	0.0044	mg/Kg	☼	07/11/17 09:23	07/11/17 12:19	1
N-Propylbenzene	ND		0.0057	0.0024	mg/Kg	☼	07/11/17 09:23	07/11/17 12:19	1
sec-Butylbenzene	ND		0.0057	0.0028	mg/Kg	☼	07/11/17 09:23	07/11/17 12:19	1
tert-Butylbenzene	ND		0.0057	0.0021	mg/Kg	☼	07/11/17 09:23	07/11/17 12:19	1
Tetrachloroethene	ND		0.0057	0.0023	mg/Kg	☼	07/11/17 09:23	07/11/17 12:19	1
Toluene	ND		0.0057	0.0019	mg/Kg	☼	07/11/17 09:23	07/11/17 12:19	1
trans-1,2-Dichloroethene	ND		0.0057	0.0029	mg/Kg	☼	07/11/17 09:23	07/11/17 12:19	1
1,1,1-Trichloroethane	ND		0.0057	0.0029	mg/Kg	☼	07/11/17 09:23	07/11/17 12:19	1
Trichloroethene	ND		0.0057	0.0017	mg/Kg	☼	07/11/17 09:23	07/11/17 12:19	1
1,2,4-Trimethylbenzene	ND		0.0057	0.0015	mg/Kg	☼	07/11/17 09:23	07/11/17 12:19	1
1,3,5-Trimethylbenzene	ND		0.0057	0.0020	mg/Kg	☼	07/11/17 09:23	07/11/17 12:19	1
Vinyl chloride	ND		0.0057	0.0042	mg/Kg	☼	07/11/17 09:23	07/11/17 12:19	1
Xylenes, Total	ND		0.011	0.0049	mg/Kg	☼	07/11/17 09:23	07/11/17 12:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*63 - 120*	*07/11/17 09:23*	*07/11/17 12:19*	*1*
Dibromofluoromethane (Surr)	*91*		*68 - 121*	*07/11/17 09:23*	*07/11/17 12:19*	*1*
1,2-Dichloroethane-d4 (Surr)	*84*		*52 - 124*	*07/11/17 09:23*	*07/11/17 12:19*	*1*
Toluene-d8 (Surr)	*116*		*72 - 127*	*07/11/17 09:23*	*07/11/17 12:19*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**12.5**		0.1	0.1	%			07/12/17 12:23	1
Percent Solids	**87.5**		0.1	0.1	%			07/12/17 12:23	1

Client Sample ID: WINDROW1, SEC 1, A — Lab Sample ID: 180-68037-10

Date Collected: 07/10/17 14:20 — **Matrix: Solid**
Date Received: 07/11/17 08:30 — **Percent Solids: 93.5**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.023	0.0036	mg/Kg	☼	07/11/17 09:23	07/11/17 12:41	1
Benzene	ND		0.0056	0.0022	mg/Kg	☼	07/11/17 09:23	07/11/17 12:41	1
2-Butanone (MEK)	ND		0.0056	0.0033	mg/Kg	☼	07/11/17 09:23	07/11/17 12:41	1

Client Sample ID: WINDROW1, SEC 1, A

Lab Sample ID: 180-68037-10
Date Collected: 07/10/17 14:20
Matrix: Solid
Date Received: 07/11/17 08:30
Percent Solids: 93.5

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	ND		0.0056	0.0037	mg/Kg	☼	07/11/17 09:23	07/11/17 12:41	1
Chlorobenzene	ND		0.0056	0.0018	mg/Kg	☼	07/11/17 09:23	07/11/17 12:41	1
Chloroform	ND		0.0056	0.0024	mg/Kg	☼	07/11/17 09:23	07/11/17 12:41	1
cis-1,2-Dichloroethene	ND		0.0056	0.0018	mg/Kg	☼	07/11/17 09:23	07/11/17 12:41	1
1,2-Dichlorobenzene	ND		0.0056	0.0045	mg/Kg	☼	07/11/17 09:23	07/11/17 12:41	1
1,3-Dichlorobenzene	ND		0.0056	0.0018	mg/Kg	☼	07/11/17 09:23	07/11/17 12:41	1
1,4-Dichlorobenzene	ND		0.0056	0.0012	mg/Kg	☼	07/11/17 09:23	07/11/17 12:41	1
1,1-Dichloroethane	ND		0.0056	0.0020	mg/Kg	☼	07/11/17 09:23	07/11/17 12:41	1
1,2-Dichloroethane	ND		0.0056	0.0016	mg/Kg	☼	07/11/17 09:23	07/11/17 12:41	1
1,1-Dichloroethene	ND		0.0056	0.0032	mg/Kg	☼	07/11/17 09:23	07/11/17 12:41	1
Ethylbenzene	ND		0.0056	0.0024	mg/Kg	☼	07/11/17 09:23	07/11/17 12:41	1
Methylene Chloride	ND		0.0056	0.0027	mg/Kg	☼	07/11/17 09:23	07/11/17 12:41	1
Methyl tert-butyl ether	ND		0.0056	0.0042	mg/Kg	☼	07/11/17 09:23	07/11/17 12:41	1
n-Butylbenzene	ND		0.0056	0.0043	mg/Kg	☼	07/11/17 09:23	07/11/17 12:41	1
N-Propylbenzene	ND		0.0056	0.0024	mg/Kg	☼	07/11/17 09:23	07/11/17 12:41	1
sec-Butylbenzene	ND		0.0056	0.0028	mg/Kg	☼	07/11/17 09:23	07/11/17 12:41	1
tert-Butylbenzene	ND		0.0056	0.0021	mg/Kg	☼	07/11/17 09:23	07/11/17 12:41	1
Tetrachloroethene	ND		0.0056	0.0023	mg/Kg	☼	07/11/17 09:23	07/11/17 12:41	1
Toluene	ND		0.0056	0.0019	mg/Kg	☼	07/11/17 09:23	07/11/17 12:41	1
trans-1,2-Dichloroethene	ND		0.0056	0.0029	mg/Kg	☼	07/11/17 09:23	07/11/17 12:41	1
1,1,1-Trichloroethane	ND		0.0056	0.0028	mg/Kg	☼	07/11/17 09:23	07/11/17 12:41	1
Trichloroethene	ND		0.0056	0.0017	mg/Kg	☼	07/11/17 09:23	07/11/17 12:41	1
1,2,4-Trimethylbenzene	ND		0.0056	0.0015	mg/Kg	☼	07/11/17 09:23	07/11/17 12:41	1
1,3,5-Trimethylbenzene	ND		0.0056	0.0019	mg/Kg	☼	07/11/17 09:23	07/11/17 12:41	1
Vinyl chloride	ND		0.0056	0.0041	mg/Kg	☼	07/11/17 09:23	07/11/17 12:41	1
Xylenes, Total	ND		0.011	0.0049	mg/Kg	☼	07/11/17 09:23	07/11/17 12:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*63 - 120*	*07/11/17 09:23*	*07/11/17 12:41*	*1*
Dibromofluoromethane (Surr)	*96*		*68 - 121*	*07/11/17 09:23*	*07/11/17 12:41*	*1*
1,2-Dichloroethane-d4 (Surr)	*87*		*52 - 124*	*07/11/17 09:23*	*07/11/17 12:41*	*1*
Toluene-d8 (Surr)	*117*		*72 - 127*	*07/11/17 09:23*	*07/11/17 12:41*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**6.5**		0.1	0.1	%			07/11/17 11:08	1
Percent Solids	**93.5**		0.1	0.1	%			07/11/17 11:08	1

Client Sample ID: WINDROW1, SEC 1, C

Lab Sample ID: 180-68037-11
Date Collected: 07/10/17 14:30
Matrix: Solid
Date Received: 07/11/17 08:30
Percent Solids: 90.6

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.074	0.025	mg/Kg	☼	07/11/17 10:03	07/11/17 22:41	10
Acenaphthylene	**0.28**		0.074	0.025	mg/Kg	☼	07/11/17 10:03	07/11/17 22:41	10
Anthracene	**0.18**		0.074	0.027	mg/Kg	☼	07/11/17 10:03	07/11/17 22:41	10
Benzo[a]anthracene	**0.39**		0.074	0.029	mg/Kg	☼	07/11/17 10:03	07/11/17 22:41	10
Benzo[a]pyrene	**0.39**		0.074	0.030	mg/Kg	☼	07/11/17 10:03	07/11/17 22:41	10
Benzo[b]fluoranthene	**0.48**		0.074	0.032	mg/Kg	☼	07/11/17 10:03	07/11/17 22:41	10

Client Sample ID: WINDROW1, SEC 1, C **Lab Sample ID: 180-68037-11**
Date Collected: 07/10/17 14:30 **Matrix: Solid**
Date Received: 07/11/17 08:30 **Percent Solids: 90.6**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	**0.36**		0.074	0.032	mg/Kg	☼	07/11/17 10:03	07/11/17 22:41	10
Benzo[k]fluoranthene	**0.18**		0.074	0.025	mg/Kg	☼	07/11/17 10:03	07/11/17 22:41	10
Chrysene	**0.44**		0.074	0.029	mg/Kg	☼	07/11/17 10:03	07/11/17 22:41	10
Dibenz(a,h)anthracene	**0.089**		0.074	0.030	mg/Kg	☼	07/11/17 10:03	07/11/17 22:41	10
Dibenzofuran	ND		0.36	0.029	mg/Kg	☼	07/11/17 10:03	07/11/17 22:41	10
1,4-Dioxane	ND		0.74	0.055	mg/Kg	☼	07/11/17 10:03	07/11/17 22:41	10
Fluoranthene	**0.42**		0.074	0.029	mg/Kg	☼	07/11/17 10:03	07/11/17 22:41	10
Fluorene	**0.036**	**J**	0.074	0.026	mg/Kg	☼	07/11/17 10:03	07/11/17 22:41	10
Hexachlorobenzene	ND		0.074	0.030	mg/Kg	☼	07/11/17 10:03	07/11/17 22:41	10
Indeno[1,2,3-cd]pyrene	**0.29**		0.074	0.028	mg/Kg	☼	07/11/17 10:03	07/11/17 22:41	10
2-Methylphenol	ND		0.36	0.033	mg/Kg	☼	07/11/17 10:03	07/11/17 22:41	10
Methylphenol, 3 & 4	ND		0.36	0.033	mg/Kg	☼	07/11/17 10:03	07/11/17 22:41	10
Naphthalene	**0.098**		0.074	0.026	mg/Kg	☼	07/11/17 10:03	07/11/17 22:41	10
Pentachlorophenol	ND		1.9	0.70	mg/Kg	☼	07/11/17 10:03	07/11/17 22:41	10
Phenanthrene	**0.26**		0.074	0.031	mg/Kg	☼	07/11/17 10:03	07/11/17 22:41	10
Phenol	ND		0.36	0.050	mg/Kg	☼	07/11/17 10:03	07/11/17 22:41	10
Pyrene	**0.64**		0.074	0.033	mg/Kg	☼	07/11/17 10:03	07/11/17 22:41	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*53*		*42 - 100*	*07/11/17 10:03*	*07/11/17 22:41*	*10*
2-Fluorophenol (Surr)	*54*		*21 - 107*	*07/11/17 10:03*	*07/11/17 22:41*	*10*
Nitrobenzene-d5 (Surr)	*63*		*35 - 109*	*07/11/17 10:03*	*07/11/17 22:41*	*10*
Phenol-d5 (Surr)	*57*		*29 - 105*	*07/11/17 10:03*	*07/11/17 22:41*	*10*
Terphenyl-d14 (Surr)	*61*		*36 - 113*	*07/11/17 10:03*	*07/11/17 22:41*	*10*
2,4,6-Tribromophenol (Surr)	*61*		*20 - 134*	*07/11/17 10:03*	*07/11/17 22:41*	*10*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.018	0.0098	mg/Kg	☼	07/11/17 09:59	07/12/17 01:01	1
PCB-1221	ND		0.018	0.0095	mg/Kg	☼	07/11/17 09:59	07/12/17 01:01	1
PCB-1232	ND		0.018	0.0073	mg/Kg	☼	07/11/17 09:59	07/12/17 01:01	1
PCB-1242	ND		0.018	0.015	mg/Kg	☼	07/11/17 09:59	07/12/17 01:01	1
PCB-1248	**1.3**		0.018	0.0088	mg/Kg	☼	07/11/17 09:59	07/12/17 01:01	1
PCB-1254	**0.82**		0.018	0.0081	mg/Kg	☼	07/11/17 09:59	07/12/17 01:01	1
PCB-1260	**0.22**		0.018	0.012	mg/Kg	☼	07/11/17 09:59	07/12/17 01:01	1
PCB-1262	ND		0.018	0.013	mg/Kg	☼	07/11/17 09:59	07/12/17 01:01	1
PCB-1268	ND		0.018	0.0056	mg/Kg	☼	07/11/17 09:59	07/12/17 01:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*67*		*23 - 150*	*07/11/17 09:59*	*07/12/17 01:01*	*1*
DCB Decachlorobiphenyl (Surr)	*72*		*23 - 150*	*07/11/17 09:59*	*07/12/17 01:01*	*1*
Tetrachloro-m-xylene (Surr)	*74*		*27 - 138*	*07/11/17 09:59*	*07/12/17 01:01*	*1*
Tetrachloro-m-xylene (Surr)	*68*		*27 - 138*	*07/11/17 09:59*	*07/12/17 01:01*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**6.5**		1.1	0.49	mg/Kg	☼	07/12/17 11:52	07/13/17 14:56	1
Barium	**76**		22	5.9	mg/Kg	☼	07/12/17 11:52	07/13/17 14:56	1
Beryllium	**0.36**	**J**	0.44	0.12	mg/Kg	☼	07/12/17 11:52	07/13/17 14:56	1
Cadmium	**0.15**	**J**	0.55	0.12	mg/Kg	☼	07/12/17 11:52	07/13/17 14:56	1

Client Sample ID: WINDROW1, SEC 1, C — Lab Sample ID: 180-68037-11

Date Collected: 07/10/17 14:30 — **Matrix: Solid**
Date Received: 07/11/17 08:30 — **Percent Solids: 90.6**

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	**9.6**		0.55	0.14	mg/Kg	☼	07/12/17 11:52	07/13/17 14:56	1
Copper	**21**		2.8	0.85	mg/Kg	☼	07/12/17 11:52	07/13/17 14:56	1
Lead	**31**		1.1	0.36	mg/Kg	☼	07/12/17 11:52	07/13/17 14:56	1
Manganese	**400**		1.7	0.45	mg/Kg	☼	07/12/17 11:52	07/13/17 14:56	1
Nickel	**19**		4.4	0.99	mg/Kg	☼	07/12/17 11:52	07/13/17 14:56	1
Selenium	ND		1.1	0.44	mg/Kg	☼	07/12/17 11:52	07/13/17 14:56	1
Silver	ND		0.55	0.18	mg/Kg	☼	07/12/17 11:52	07/13/17 14:56	1
Zinc	**66**		2.2	1.1	mg/Kg	☼	07/12/17 11:52	07/13/17 14:56	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.26**		0.037	0.0083	mg/Kg	☼	07/12/17 14:26	07/13/17 09:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.4**		0.1	0.1	%			07/11/17 11:08	1
Percent Solids	**90.6**		0.1	0.1	%			07/11/17 11:08	1
Cyanide, Total	ND		0.47	0.14	mg/Kg	☼	07/11/17 13:12	07/11/17 18:03	1

Client Sample ID: WINDROW1, SEC 4, A — Lab Sample ID: 180-68037-12

Date Collected: 07/10/17 16:30 — **Matrix: Solid**
Date Received: 07/11/17 08:30 — **Percent Solids: 86.9**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.020	0.0032	mg/Kg	☼	07/11/17 09:23	07/11/17 13:04	1
Benzene	ND		0.0051	0.0020	mg/Kg	☼	07/11/17 09:23	07/11/17 13:04	1
2-Butanone (MEK)	ND		0.0051	0.0030	mg/Kg	☼	07/11/17 09:23	07/11/17 13:04	1
Carbon tetrachloride	ND		0.0051	0.0034	mg/Kg	☼	07/11/17 09:23	07/11/17 13:04	1
Chlorobenzene	ND		0.0051	0.0016	mg/Kg	☼	07/11/17 09:23	07/11/17 13:04	1
Chloroform	ND		0.0051	0.0022	mg/Kg	☼	07/11/17 09:23	07/11/17 13:04	1
cis-1,2-Dichloroethene	ND		0.0051	0.0016	mg/Kg	☼	07/11/17 09:23	07/11/17 13:04	1
1,2-Dichlorobenzene	ND		0.0051	0.0041	mg/Kg	☼	07/11/17 09:23	07/11/17 13:04	1
1,3-Dichlorobenzene	ND		0.0051	0.0016	mg/Kg	☼	07/11/17 09:23	07/11/17 13:04	1
1,4-Dichlorobenzene	ND		0.0051	0.0010	mg/Kg	☼	07/11/17 09:23	07/11/17 13:04	1
1,1-Dichloroethane	ND		0.0051	0.0018	mg/Kg	☼	07/11/17 09:23	07/11/17 13:04	1
1,2-Dichloroethane	ND		0.0051	0.0015	mg/Kg	☼	07/11/17 09:23	07/11/17 13:04	1
1,1-Dichloroethene	ND		0.0051	0.0029	mg/Kg	☼	07/11/17 09:23	07/11/17 13:04	1
Ethylbenzene	ND		0.0051	0.0022	mg/Kg	☼	07/11/17 09:23	07/11/17 13:04	1
Methylene Chloride	ND		0.0051	0.0024	mg/Kg	☼	07/11/17 09:23	07/11/17 13:04	1
Methyl tert-butyl ether	ND		0.0051	0.0038	mg/Kg	☼	07/11/17 09:23	07/11/17 13:04	1
n-Butylbenzene	ND		0.0051	0.0039	mg/Kg	☼	07/11/17 09:23	07/11/17 13:04	1
N-Propylbenzene	ND		0.0051	0.0021	mg/Kg	☼	07/11/17 09:23	07/11/17 13:04	1
sec-Butylbenzene	ND		0.0051	0.0025	mg/Kg	☼	07/11/17 09:23	07/11/17 13:04	1
tert-Butylbenzene	ND		0.0051	0.0019	mg/Kg	☼	07/11/17 09:23	07/11/17 13:04	1
Tetrachloroethene	ND		0.0051	0.0020	mg/Kg	☼	07/11/17 09:23	07/11/17 13:04	1
Toluene	ND		0.0051	0.0017	mg/Kg	☼	07/11/17 09:23	07/11/17 13:04	1
trans-1,2-Dichloroethene	ND		0.0051	0.0026	mg/Kg	☼	07/11/17 09:23	07/11/17 13:04	1
1,1,1-Trichloroethane	ND		0.0051	0.0026	mg/Kg	☼	07/11/17 09:23	07/11/17 13:04	1
Trichloroethene	ND		0.0051	0.0015	mg/Kg	☼	07/11/17 09:23	07/11/17 13:04	1

Client Sample ID: WINDROW1, SEC 4, A — Lab Sample ID: 180-68037-12

Date Collected: 07/10/17 16:30 — **Matrix: Solid**
Date Received: 07/11/17 08:30 — **Percent Solids: 86.9**

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	ND		0.0051	0.0014	mg/Kg	☼	07/11/17 09:23	07/11/17 13:04	1
1,3,5-Trimethylbenzene	ND		0.0051	0.0018	mg/Kg	☼	07/11/17 09:23	07/11/17 13:04	1
Vinyl chloride	ND		0.0051	0.0037	mg/Kg	☼	07/11/17 09:23	07/11/17 13:04	1
Xylenes, Total	ND		0.010	0.0044	mg/Kg	☼	07/11/17 09:23	07/11/17 13:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*63 - 120*	*07/11/17 09:23*	*07/11/17 13:04*	*1*
Dibromofluoromethane (Surr)	*95*		*68 - 121*	*07/11/17 09:23*	*07/11/17 13:04*	*1*
1,2-Dichloroethane-d4 (Surr)	*88*		*52 - 124*	*07/11/17 09:23*	*07/11/17 13:04*	*1*
Toluene-d8 (Surr)	*117*		*72 - 127*	*07/11/17 09:23*	*07/11/17 13:04*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**13.1**		0.1	0.1	%			07/11/17 11:08	1
Percent Solids	**86.9**		0.1	0.1	%			07/11/17 11:08	1

Client Sample ID: WINDROW1, SEC 2, B — Lab Sample ID: 180-68037-13

Date Collected: 07/10/17 14:50 — **Matrix: Solid**
Date Received: 07/11/17 08:30 — **Percent Solids: 88.1**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.021	0.0032	mg/Kg	☼	07/11/17 09:23	07/11/17 13:26	1
Benzene	ND		0.0052	0.0020	mg/Kg	☼	07/11/17 09:23	07/11/17 13:26	1
2-Butanone (MEK)	ND		0.0052	0.0030	mg/Kg	☼	07/11/17 09:23	07/11/17 13:26	1
Carbon tetrachloride	ND		0.0052	0.0034	mg/Kg	☼	07/11/17 09:23	07/11/17 13:26	1
Chlorobenzene	ND		0.0052	0.0016	mg/Kg	☼	07/11/17 09:23	07/11/17 13:26	1
Chloroform	ND		0.0052	0.0022	mg/Kg	☼	07/11/17 09:23	07/11/17 13:26	1
cis-1,2-Dichloroethene	ND		0.0052	0.0016	mg/Kg	☼	07/11/17 09:23	07/11/17 13:26	1
1,2-Dichlorobenzene	ND		0.0052	0.0041	mg/Kg	☼	07/11/17 09:23	07/11/17 13:26	1
1,3-Dichlorobenzene	ND		0.0052	0.0016	mg/Kg	☼	07/11/17 09:23	07/11/17 13:26	1
1,4-Dichlorobenzene	ND		0.0052	0.0011	mg/Kg	☼	07/11/17 09:23	07/11/17 13:26	1
1,1-Dichloroethane	ND		0.0052	0.0019	mg/Kg	☼	07/11/17 09:23	07/11/17 13:26	1
1,2-Dichloroethane	ND		0.0052	0.0015	mg/Kg	☼	07/11/17 09:23	07/11/17 13:26	1
1,1-Dichloroethene	ND		0.0052	0.0029	mg/Kg	☼	07/11/17 09:23	07/11/17 13:26	1
Ethylbenzene	ND		0.0052	0.0022	mg/Kg	☼	07/11/17 09:23	07/11/17 13:26	1
Methylene Chloride	ND		0.0052	0.0024	mg/Kg	☼	07/11/17 09:23	07/11/17 13:26	1
Methyl tert-butyl ether	ND		0.0052	0.0038	mg/Kg	☼	07/11/17 09:23	07/11/17 13:26	1
n-Butylbenzene	ND		0.0052	0.0039	mg/Kg	☼	07/11/17 09:23	07/11/17 13:26	1
N-Propylbenzene	ND		0.0052	0.0022	mg/Kg	☼	07/11/17 09:23	07/11/17 13:26	1
sec-Butylbenzene	ND		0.0052	0.0025	mg/Kg	☼	07/11/17 09:23	07/11/17 13:26	1
tert-Butylbenzene	ND		0.0052	0.0019	mg/Kg	☼	07/11/17 09:23	07/11/17 13:26	1
Tetrachloroethene	ND		0.0052	0.0021	mg/Kg	☼	07/11/17 09:23	07/11/17 13:26	1
Toluene	ND		0.0052	0.0017	mg/Kg	☼	07/11/17 09:23	07/11/17 13:26	1
trans-1,2-Dichloroethene	ND		0.0052	0.0026	mg/Kg	☼	07/11/17 09:23	07/11/17 13:26	1
1,1,1-Trichloroethane	ND		0.0052	0.0026	mg/Kg	☼	07/11/17 09:23	07/11/17 13:26	1
Trichloroethene	ND		0.0052	0.0015	mg/Kg	☼	07/11/17 09:23	07/11/17 13:26	1
1,2,4-Trimethylbenzene	ND		0.0052	0.0014	mg/Kg	☼	07/11/17 09:23	07/11/17 13:26	1
1,3,5-Trimethylbenzene	ND		0.0052	0.0018	mg/Kg	☼	07/11/17 09:23	07/11/17 13:26	1
Vinyl chloride	ND		0.0052	0.0038	mg/Kg	☼	07/11/17 09:23	07/11/17 13:26	1

Client Sample ID: WINDROW1, SEC 2, B — Lab Sample ID: 180-68037-13

Date Collected: 07/10/17 14:50 — **Matrix: Solid**
Date Received: 07/11/17 08:30 — **Percent Solids: 88.1**

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	ND		0.010	0.0044	mg/Kg	☼	07/11/17 09:23	07/11/17 13:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*63 - 120*	*07/11/17 09:23*	*07/11/17 13:26*	*1*
Dibromofluoromethane (Surr)	*97*		*68 - 121*	*07/11/17 09:23*	*07/11/17 13:26*	*1*
1,2-Dichloroethane-d4 (Surr)	*89*		*52 - 124*	*07/11/17 09:23*	*07/11/17 13:26*	*1*
Toluene-d8 (Surr)	*119*		*72 - 127*	*07/11/17 09:23*	*07/11/17 13:26*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**11.9**		0.1	0.1	%			07/11/17 11:08	1
Percent Solids	**88.1**		0.1	0.1	%			07/11/17 11:08	1

Client Sample ID: WINDROW1, SEC 1, B — Lab Sample ID: 180-68037-14

Date Collected: 07/10/17 14:25 — **Matrix: Solid**
Date Received: 07/11/17 08:30 — **Percent Solids: 91.3**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.019	0.0031	mg/Kg	☼	07/11/17 09:23	07/11/17 13:49	1
Benzene	ND		0.0049	0.0019	mg/Kg	☼	07/11/17 09:23	07/11/17 13:49	1
2-Butanone (MEK)	ND		0.0049	0.0028	mg/Kg	☼	07/11/17 09:23	07/11/17 13:49	1
Carbon tetrachloride	ND		0.0049	0.0032	mg/Kg	☼	07/11/17 09:23	07/11/17 13:49	1
Chlorobenzene	ND		0.0049	0.0015	mg/Kg	☼	07/11/17 09:23	07/11/17 13:49	1
Chloroform	ND		0.0049	0.0021	mg/Kg	☼	07/11/17 09:23	07/11/17 13:49	1
cis-1,2-Dichloroethene	ND		0.0049	0.0015	mg/Kg	☼	07/11/17 09:23	07/11/17 13:49	1
1,2-Dichlorobenzene	ND		0.0049	0.0039	mg/Kg	☼	07/11/17 09:23	07/11/17 13:49	1
1,3-Dichlorobenzene	ND		0.0049	0.0016	mg/Kg	☼	07/11/17 09:23	07/11/17 13:49	1
1,4-Dichlorobenzene	ND		0.0049	0.00099	mg/Kg	☼	07/11/17 09:23	07/11/17 13:49	1
1,1-Dichloroethane	ND		0.0049	0.0018	mg/Kg	☼	07/11/17 09:23	07/11/17 13:49	1
1,2-Dichloroethane	ND		0.0049	0.0014	mg/Kg	☼	07/11/17 09:23	07/11/17 13:49	1
1,1-Dichloroethene	ND		0.0049	0.0028	mg/Kg	☼	07/11/17 09:23	07/11/17 13:49	1
Ethylbenzene	ND		0.0049	0.0021	mg/Kg	☼	07/11/17 09:23	07/11/17 13:49	1
Methylene Chloride	ND		0.0049	0.0023	mg/Kg	☼	07/11/17 09:23	07/11/17 13:49	1
Methyl tert-butyl ether	ND		0.0049	0.0036	mg/Kg	☼	07/11/17 09:23	07/11/17 13:49	1
n-Butylbenzene	ND		0.0049	0.0037	mg/Kg	☼	07/11/17 09:23	07/11/17 13:49	1
N-Propylbenzene	ND		0.0049	0.0021	mg/Kg	☼	07/11/17 09:23	07/11/17 13:49	1
sec-Butylbenzene	ND		0.0049	0.0024	mg/Kg	☼	07/11/17 09:23	07/11/17 13:49	1
tert-Butylbenzene	ND		0.0049	0.0018	mg/Kg	☼	07/11/17 09:23	07/11/17 13:49	1
Tetrachloroethene	ND		0.0049	0.0019	mg/Kg	☼	07/11/17 09:23	07/11/17 13:49	1
Toluene	ND		0.0049	0.0016	mg/Kg	☼	07/11/17 09:23	07/11/17 13:49	1
trans-1,2-Dichloroethene	ND		0.0049	0.0025	mg/Kg	☼	07/11/17 09:23	07/11/17 13:49	1
1,1,1-Trichloroethane	ND		0.0049	0.0024	mg/Kg	☼	07/11/17 09:23	07/11/17 13:49	1
Trichloroethene	ND		0.0049	0.0015	mg/Kg	☼	07/11/17 09:23	07/11/17 13:49	1
1,2,4-Trimethylbenzene	ND		0.0049	0.0013	mg/Kg	☼	07/11/17 09:23	07/11/17 13:49	1
1,3,5-Trimethylbenzene	ND		0.0049	0.0017	mg/Kg	☼	07/11/17 09:23	07/11/17 13:49	1
Vinyl chloride	ND		0.0049	0.0036	mg/Kg	☼	07/11/17 09:23	07/11/17 13:49	1
Xylenes, Total	ND		0.0097	0.0042	mg/Kg	☼	07/11/17 09:23	07/11/17 13:49	1

Client Sample ID: WINDROW1, SEC 1, B
Date Collected: 07/10/17 14:25
Date Received: 07/11/17 08:30

Lab Sample ID: 180-68037-14
Matrix: Solid
Percent Solids: 91.3

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*63 - 120*	*07/11/17 09:23*	*07/11/17 13:49*	*1*
Dibromofluoromethane (Surr)	*94*		*68 - 121*	*07/11/17 09:23*	*07/11/17 13:49*	*1*
1,2-Dichloroethane-d4 (Surr)	*85*		*52 - 124*	*07/11/17 09:23*	*07/11/17 13:49*	*1*
Toluene-d8 (Surr)	*114*		*72 - 127*	*07/11/17 09:23*	*07/11/17 13:49*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**8.7**		0.1	0.1	%			07/11/17 11:08	1
Percent Solids	**91.3**		0.1	0.1	%			07/11/17 11:08	1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 180-216673/1-A
Matrix: Solid
Analysis Batch: 216640

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 216673

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.020	0.0032	mg/Kg		07/11/17 06:21	07/11/17 09:22	1
Benzene	ND		0.0050	0.0020	mg/Kg		07/11/17 06:21	07/11/17 09:22	1
2-Butanone (MEK)	ND		0.0050	0.0029	mg/Kg		07/11/17 06:21	07/11/17 09:22	1
Carbon tetrachloride	ND		0.0050	0.0033	mg/Kg		07/11/17 06:21	07/11/17 09:22	1
Chlorobenzene	ND		0.0050	0.0016	mg/Kg		07/11/17 06:21	07/11/17 09:22	1
Chloroform	ND		0.0050	0.0021	mg/Kg		07/11/17 06:21	07/11/17 09:22	1
cis-1,2-Dichloroethene	ND		0.0050	0.0016	mg/Kg		07/11/17 06:21	07/11/17 09:22	1
1,2-Dichlorobenzene	ND		0.0050	0.0040	mg/Kg		07/11/17 06:21	07/11/17 09:22	1
1,3-Dichlorobenzene	ND		0.0050	0.0016	mg/Kg		07/11/17 06:21	07/11/17 09:22	1
1,4-Dichlorobenzene	ND		0.0050	0.0010	mg/Kg		07/11/17 06:21	07/11/17 09:22	1
1,1-Dichloroethane	ND		0.0050	0.0018	mg/Kg		07/11/17 06:21	07/11/17 09:22	1
1,2-Dichloroethane	ND		0.0050	0.0015	mg/Kg		07/11/17 06:21	07/11/17 09:22	1
1,1-Dichloroethene	ND		0.0050	0.0029	mg/Kg		07/11/17 06:21	07/11/17 09:22	1
Ethylbenzene	ND		0.0050	0.0022	mg/Kg		07/11/17 06:21	07/11/17 09:22	1
Methylene Chloride	ND		0.0050	0.0024	mg/Kg		07/11/17 06:21	07/11/17 09:22	1
Methyl tert-butyl ether	ND		0.0050	0.0037	mg/Kg		07/11/17 06:21	07/11/17 09:22	1
n-Butylbenzene	ND		0.0050	0.0038	mg/Kg		07/11/17 06:21	07/11/17 09:22	1
N-Propylbenzene	ND		0.0050	0.0021	mg/Kg		07/11/17 06:21	07/11/17 09:22	1
sec-Butylbenzene	ND		0.0050	0.0024	mg/Kg		07/11/17 06:21	07/11/17 09:22	1
tert-Butylbenzene	ND		0.0050	0.0018	mg/Kg		07/11/17 06:21	07/11/17 09:22	1
Tetrachloroethene	ND		0.0050	0.0020	mg/Kg		07/11/17 06:21	07/11/17 09:22	1
Toluene	ND		0.0050	0.0017	mg/Kg		07/11/17 06:21	07/11/17 09:22	1
trans-1,2-Dichloroethene	ND		0.0050	0.0025	mg/Kg		07/11/17 06:21	07/11/17 09:22	1
1,1,1-Trichloroethane	ND		0.0050	0.0025	mg/Kg		07/11/17 06:21	07/11/17 09:22	1
Trichloroethene	ND		0.0050	0.0015	mg/Kg		07/11/17 06:21	07/11/17 09:22	1
1,2,4-Trimethylbenzene	ND		0.0050	0.0013	mg/Kg		07/11/17 06:21	07/11/17 09:22	1
1,3,5-Trimethylbenzene	ND		0.0050	0.0017	mg/Kg		07/11/17 06:21	07/11/17 09:22	1
Vinyl chloride	ND		0.0050	0.0037	mg/Kg		07/11/17 06:21	07/11/17 09:22	1
Xylenes, Total	ND		0.010	0.0043	mg/Kg		07/11/17 06:21	07/11/17 09:22	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*63 - 120*	*07/11/17 06:21*	*07/11/17 09:22*	*1*
Dibromofluoromethane (Surr)	*99*		*68 - 121*	*07/11/17 06:21*	*07/11/17 09:22*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*52 - 124*	*07/11/17 06:21*	*07/11/17 09:22*	*1*
Toluene-d8 (Surr)	*111*		*72 - 127*	*07/11/17 06:21*	*07/11/17 09:22*	*1*

Lab Sample ID: LCS 180-216673/2-A
Matrix: Solid
Analysis Batch: 216640

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 216673

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0400	0.0412		mg/Kg		103	20 - 150
Benzene	0.0400	0.0396		mg/Kg		99	77 - 120
2-Butanone (MEK)	0.0400	0.0378		mg/Kg		94	35 - 149
Carbon tetrachloride	0.0400	0.0339		mg/Kg		85	69 - 122
Chlorobenzene	0.0400	0.0376		mg/Kg		94	79 - 120
Chloroform	0.0400	0.0370		mg/Kg		93	72 - 120
cis-1,2-Dichloroethene	0.0400	0.0366		mg/Kg		92	80 - 118

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 180-216673/2-A
Matrix: Solid
Analysis Batch: 216640

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 216673

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichlorobenzene	0.0400	0.0372		mg/Kg		93	71 - 124
1,3-Dichlorobenzene	0.0400	0.0379		mg/Kg		95	75 - 118
1,4-Dichlorobenzene	0.0400	0.0380		mg/Kg		95	77 - 116
1,1-Dichloroethane	0.0400	0.0412		mg/Kg		103	66 - 124
1,2-Dichloroethane	0.0400	0.0355		mg/Kg		89	61 - 127
1,1-Dichloroethene	0.0400	0.0410		mg/Kg		103	59 - 129
Ethylbenzene	0.0400	0.0367		mg/Kg		92	78 - 125
Methylene Chloride	0.0400	0.0371		mg/Kg		93	58 - 127
Methyl tert-butyl ether	0.0400	0.0377		mg/Kg		94	48 - 132
n-Butylbenzene	0.0400	0.0396		mg/Kg		99	59 - 145
N-Propylbenzene	0.0400	0.0344		mg/Kg		86	80 - 120
sec-Butylbenzene	0.0400	0.0401		mg/Kg		100	70 - 130
tert-Butylbenzene	0.0400	0.0369		mg/Kg		92	74 - 133
Tetrachloroethene	0.0400	0.0402		mg/Kg		101	78 - 129
Toluene	0.0400	0.0400		mg/Kg		100	78 - 124
trans-1,2-Dichloroethene	0.0400	0.0403		mg/Kg		101	77 - 121
1,1,1-Trichloroethane	0.0400	0.0372		mg/Kg		93	67 - 126
Trichloroethene	0.0400	0.0386		mg/Kg		97	76 - 119
1,2,4-Trimethylbenzene	0.0400	0.0374		mg/Kg		94	80 - 121
1,3,5-Trimethylbenzene	0.0400	0.0362		mg/Kg		90	68 - 133
Vinyl chloride	0.0400	0.0476		mg/Kg		119	63 - 124
Xylenes, Total	0.0800	0.0741		mg/Kg		93	83 - 126

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*95*		*63 - 120*
Dibromofluoromethane (Surr)	*101*		*68 - 121*
1,2-Dichloroethane-d4 (Surr)	*97*		*52 - 124*
Toluene-d8 (Surr)	*110*		*72 - 127*

Lab Sample ID: LCSD 180-216673/3-A
Matrix: Solid
Analysis Batch: 216640

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 216673

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	0.0400	0.0420		mg/Kg		105	20 - 150	2	40
Benzene	0.0400	0.0399		mg/Kg		100	77 - 120	1	20
2-Butanone (MEK)	0.0400	0.0416		mg/Kg		104	35 - 149	10	36
Carbon tetrachloride	0.0400	0.0356		mg/Kg		89	69 - 122	5	22
Chlorobenzene	0.0400	0.0374		mg/Kg		94	79 - 120	1	20
Chloroform	0.0400	0.0380		mg/Kg		95	72 - 120	3	25
cis-1,2-Dichloroethene	0.0400	0.0385		mg/Kg		96	80 - 118	5	20
1,2-Dichlorobenzene	0.0400	0.0394		mg/Kg		99	71 - 124	6	22
1,3-Dichlorobenzene	0.0400	0.0386		mg/Kg		97	75 - 118	2	20
1,4-Dichlorobenzene	0.0400	0.0385		mg/Kg		96	77 - 116	1	20
1,1-Dichloroethane	0.0400	0.0420		mg/Kg		105	66 - 124	2	23
1,2-Dichloroethane	0.0400	0.0373		mg/Kg		93	61 - 127	5	23
1,1-Dichloroethene	0.0400	0.0400		mg/Kg		100	59 - 129	3	25
Ethylbenzene	0.0400	0.0360		mg/Kg		90	78 - 125	2	21

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 180-216673/3-A
Matrix: Solid
Analysis Batch: 216640

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 216673

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methylene Chloride			0.0400	0.0372		mg/Kg		93	58 - 127	0	28
Methyl tert-butyl ether			0.0400	0.0394		mg/Kg		98	48 - 132	4	36
n-Butylbenzene			0.0400	0.0393		mg/Kg		98	59 - 145	1	24
N-Propylbenzene			0.0400	0.0365		mg/Kg		91	80 - 120	6	20
sec-Butylbenzene			0.0400	0.0388		mg/Kg		97	70 - 130	3	21
tert-Butylbenzene			0.0400	0.0373		mg/Kg		93	74 - 133	1	22
Tetrachloroethene			0.0400	0.0390		mg/Kg		98	78 - 129	3	20
Toluene			0.0400	0.0383		mg/Kg		96	78 - 124	5	21
trans-1,2-Dichloroethene			0.0400	0.0401		mg/Kg		100	77 - 121	1	20
1,1,1-Trichloroethane			0.0400	0.0391		mg/Kg		98	67 - 126	5	31
Trichloroethene			0.0400	0.0380		mg/Kg		95	76 - 119	2	21
1,2,4-Trimethylbenzene			0.0400	0.0377		mg/Kg		94	80 - 121	1	20
1,3,5-Trimethylbenzene			0.0400	0.0377		mg/Kg		94	68 - 133	4	21
Vinyl chloride			0.0400	0.0480		mg/Kg		120	63 - 124	1	27
Xylenes, Total			0.0800	0.0697		mg/Kg		87	83 - 126	6	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*90*		*63 - 120*
Dibromofluoromethane (Surr)	*104*		*68 - 121*
1,2-Dichloroethane-d4 (Surr)	*100*		*52 - 124*
Toluene-d8 (Surr)	*107*		*72 - 127*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Lab Sample ID: MB 180-216675/1-A
Matrix: Solid
Analysis Batch: 216666

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 216675

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0067	0.0022	mg/Kg		07/11/17 10:03	07/11/17 14:14	1
Acenaphthylene	ND		0.0067	0.0023	mg/Kg		07/11/17 10:03	07/11/17 14:14	1
Anthracene	ND		0.0067	0.0025	mg/Kg		07/11/17 10:03	07/11/17 14:14	1
Benzo[a]anthracene	ND		0.0067	0.0026	mg/Kg		07/11/17 10:03	07/11/17 14:14	1
Benzo[a]pyrene	ND		0.0067	0.0028	mg/Kg		07/11/17 10:03	07/11/17 14:14	1
Benzo[b]fluoranthene	ND		0.0067	0.0029	mg/Kg		07/11/17 10:03	07/11/17 14:14	1
Benzo[g,h,i]perylene	ND		0.0067	0.0029	mg/Kg		07/11/17 10:03	07/11/17 14:14	1
Benzo[k]fluoranthene	ND		0.0067	0.0023	mg/Kg		07/11/17 10:03	07/11/17 14:14	1
Chrysene	ND		0.0067	0.0026	mg/Kg		07/11/17 10:03	07/11/17 14:14	1
Dibenz(a,h)anthracene	ND		0.0067	0.0028	mg/Kg		07/11/17 10:03	07/11/17 14:14	1
Dibenzofuran	ND		0.033	0.0027	mg/Kg		07/11/17 10:03	07/11/17 14:14	1
1,4-Dioxane	ND		0.067	0.0050	mg/Kg		07/11/17 10:03	07/11/17 14:14	1
Fluoranthene	ND		0.0067	0.0026	mg/Kg		07/11/17 10:03	07/11/17 14:14	1
Fluorene	ND		0.0067	0.0024	mg/Kg		07/11/17 10:03	07/11/17 14:14	1
Hexachlorobenzene	ND		0.0067	0.0027	mg/Kg		07/11/17 10:03	07/11/17 14:14	1
Indeno[1,2,3-cd]pyrene	ND		0.0067	0.0026	mg/Kg		07/11/17 10:03	07/11/17 14:14	1
2-Methylphenol	ND		0.033	0.0029	mg/Kg		07/11/17 10:03	07/11/17 14:14	1
Methylphenol, 3 & 4	ND		0.033	0.0030	mg/Kg		07/11/17 10:03	07/11/17 14:14	1
Naphthalene	ND		0.0067	0.0024	mg/Kg		07/11/17 10:03	07/11/17 14:14	1

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: MB 180-216675/1-A
Matrix: Solid
Analysis Batch: 216666

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 216675

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND		0.17	0.063	mg/Kg		07/11/17 10:03	07/11/17 14:14	1
Phenanthrene	ND		0.0067	0.0028	mg/Kg		07/11/17 10:03	07/11/17 14:14	1
Phenol	ND		0.033	0.0045	mg/Kg		07/11/17 10:03	07/11/17 14:14	1
Pyrene	ND		0.0067	0.0030	mg/Kg		07/11/17 10:03	07/11/17 14:14	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*64*		*42 - 100*	*07/11/17 10:03*	*07/11/17 14:14*	*1*
2-Fluorophenol (Surr)	*69*		*21 - 107*	*07/11/17 10:03*	*07/11/17 14:14*	*1*
Nitrobenzene-d5 (Surr)	*75*		*35 - 109*	*07/11/17 10:03*	*07/11/17 14:14*	*1*
Phenol-d5 (Surr)	*71*		*29 - 105*	*07/11/17 10:03*	*07/11/17 14:14*	*1*
Terphenyl-d14 (Surr)	*73*		*36 - 113*	*07/11/17 10:03*	*07/11/17 14:14*	*1*
2,4,6-Tribromophenol (Surr)	*60*		*20 - 134*	*07/11/17 10:03*	*07/11/17 14:14*	*1*

Lab Sample ID: LCS 180-216675/2-A
Matrix: Solid
Analysis Batch: 216666

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 216675

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	0.667	0.469		mg/Kg		70	39 - 100
Acenaphthylene	0.667	0.485		mg/Kg		73	42 - 100
Anthracene	0.667	0.525		mg/Kg		79	43 - 100
Benzo[a]anthracene	0.667	0.492		mg/Kg		74	43 - 100
Benzo[a]pyrene	0.667	0.499		mg/Kg		75	43 - 100
Benzo[b]fluoranthene	0.667	0.478		mg/Kg		72	40 - 100
Benzo[g,h,i]perylene	0.667	0.498		mg/Kg		75	41 - 102
Benzo[k]fluoranthene	0.667	0.522		mg/Kg		78	44 - 100
Chrysene	0.667	0.478		mg/Kg		72	44 - 100
Dibenz(a,h)anthracene	0.667	0.508		mg/Kg		76	40 - 104
Dibenzofuran	0.667	0.476		mg/Kg		71	42 - 100
1,4-Dioxane	0.667	0.524		mg/Kg		79	19 - 107
Fluoranthene	0.667	0.489		mg/Kg		73	41 - 104
Fluorene	0.667	0.465		mg/Kg		70	41 - 100
Hexachlorobenzene	0.667	0.485		mg/Kg		73	43 - 100
Indeno[1,2,3-cd]pyrene	0.667	0.503		mg/Kg		75	41 - 104
2-Methylphenol	0.667	0.508		mg/Kg		76	38 - 100
Methylphenol, 3 & 4	0.667	0.504		mg/Kg		76	40 - 100
Naphthalene	0.667	0.509		mg/Kg		76	38 - 100
Pentachlorophenol	1.33	1.02		mg/Kg		77	34 - 102
Phenanthrene	0.667	0.534		mg/Kg		80	41 - 100
Phenol	0.667	0.522		mg/Kg		78	36 - 100
Pyrene	0.667	0.515		mg/Kg		77	42 - 100

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*58*		*42 - 100*
2-Fluorophenol (Surr)	*66*		*21 - 107*
Nitrobenzene-d5 (Surr)	*71*		*35 - 109*
Phenol-d5 (Surr)	*69*		*29 - 105*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCS 180-216675/2-A
Matrix: Solid
Analysis Batch: 216666

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 216675

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Terphenyl-d14 (Surr)	*67*		*36 - 113*
2,4,6-Tribromophenol (Surr)	*62*		*20 - 134*

Lab Sample ID: 180-68037-1 MS
Matrix: Solid
Analysis Batch: 216666

Client Sample ID: DUP2
Prep Type: Total/NA
Prep Batch: 216675

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	ND		0.753	0.661		mg/Kg	☼	88	39 - 100
Acenaphthylene	0.46		0.753	0.944		mg/Kg	☼	64	42 - 100
Anthracene	0.22	F1	0.753	0.978	F1	mg/Kg	☼	101	43 - 100
Benzo[a]anthracene	0.53		0.753	1.20		mg/Kg	☼	89	43 - 100
Benzo[a]pyrene	0.66		0.753	1.18		mg/Kg	☼	69	43 - 100
Benzo[b]fluoranthene	0.67		0.753	1.20		mg/Kg	☼	71	40 - 100
Benzo[g,h,i]perylene	0.55		0.753	1.17		mg/Kg	☼	81	41 - 102
Benzo[k]fluoranthene	0.23	F1	0.753	0.951		mg/Kg	☼	96	44 - 100
Chrysene	0.60		0.753	1.13		mg/Kg	☼	70	44 - 100
Dibenz(a,h)anthracene	0.13		0.753	0.772		mg/Kg	☼	85	40 - 104
Dibenzofuran	ND	F1	0.753	0.707		mg/Kg	☼	94	42 - 100
1,4-Dioxane	ND		0.753	0.511	J	mg/Kg	☼	68	19 - 107
Fluoranthene	0.45	F1	0.753	1.44	F1	mg/Kg	☼	130	41 - 104
Fluorene	0.055	J	0.753	0.728		mg/Kg	☼	89	41 - 100
Hexachlorobenzene	ND		0.753	0.639		mg/Kg	☼	85	43 - 100
Indeno[1,2,3-cd]pyrene	0.39		0.753	1.05		mg/Kg	☼	87	41 - 104
2-Methylphenol	ND		0.753	0.632		mg/Kg	☼	84	38 - 100
Methylphenol, 3 & 4	ND		0.753	0.661		mg/Kg	☼	88	40 - 100
Naphthalene	0.098		0.753	0.803		mg/Kg	☼	94	38 - 100
Pentachlorophenol	ND		1.51	1.08	J	mg/Kg	☼	72	34 - 102
Phenanthrene	0.21	F1	0.753	1.42	F1	mg/Kg	☼	161	41 - 100
Phenol	ND		0.753	0.615		mg/Kg	☼	82	36 - 100
Pyrene	0.81	F1	0.753	1.69	F1	mg/Kg	☼	117	42 - 100

Surrogate	MS %Recovery	MS Qualifier	Limits
2-Fluorobiphenyl	*51*		*42 - 100*
2-Fluorophenol (Surr)	*51*		*21 - 107*
Nitrobenzene-d5 (Surr)	*60*		*35 - 109*
Phenol-d5 (Surr)	*55*		*29 - 105*
Terphenyl-d14 (Surr)	*57*		*36 - 113*
2,4,6-Tribromophenol (Surr)	*54*		*20 - 134*

Lab Sample ID: 180-68037-1 MSD
Matrix: Solid
Analysis Batch: 216666

Client Sample ID: DUP2
Prep Type: Total/NA
Prep Batch: 216675

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	ND		0.753	0.700		mg/Kg	☼	93	39 - 100	6	20
Acenaphthylene	0.46		0.753	1.01		mg/Kg	☼	73	42 - 100	7	20
Anthracene	0.22	F1	0.753	1.03	F1	mg/Kg	☼	109	43 - 100	6	20

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: 180-68037-1 MSD
Matrix: Solid
Analysis Batch: 216666

Client Sample ID: DUP2
Prep Type: Total/NA
Prep Batch: 216675

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzo[a]anthracene	0.53		0.753	1.25		mg/Kg	☼	95	43 - 100	4	20
Benzo[a]pyrene	0.66		0.753	1.22		mg/Kg	☼	75	43 - 100	4	20
Benzo[b]fluoranthene	0.67		0.753	1.27		mg/Kg	☼	79	40 - 100	5	20
Benzo[g,h,i]perylene	0.55		0.753	1.28		mg/Kg	☼	97	41 - 102	9	20
Benzo[k]fluoranthene	0.23	F1	0.753	1.06	F1	mg/Kg	☼	110	44 - 100	11	20
Chrysene	0.60		0.753	1.22		mg/Kg	☼	83	44 - 100	8	20
Dibenz(a,h)anthracene	0.13		0.753	0.854		mg/Kg	☼	96	40 - 104	10	26
Dibenzofuran	ND	F1	0.753	0.771	F1	mg/Kg	☼	102	42 - 100	9	23
1,4-Dioxane	ND		0.753	0.528	J	mg/Kg	☼	70	19 - 107	3	20
Fluoranthene	0.45	F1	0.753	1.50	F1	mg/Kg	☼	139	41 - 104	4	20
Fluorene	0.055	J	0.753	0.756		mg/Kg	☼	93	41 - 100	4	21
Hexachlorobenzene	ND		0.753	0.665		mg/Kg	☼	88	43 - 100	4	21
Indeno[1,2,3-cd]pyrene	0.39		0.753	1.12		mg/Kg	☼	97	41 - 104	7	25
2-Methylphenol	ND		0.753	0.682		mg/Kg	☼	91	38 - 100	8	20
Methylphenol, 3 & 4	ND		0.753	0.702		mg/Kg	☼	93	40 - 100	6	20
Naphthalene	0.098		0.753	0.851		mg/Kg	☼	100	38 - 100	6	20
Pentachlorophenol	ND		1.51	1.19	J	mg/Kg	☼	79	34 - 102	10	20
Phenanthrene	0.21	F1	0.753	1.51	F1	mg/Kg	☼	173	41 - 100	6	20
Phenol	ND		0.753	0.681		mg/Kg	☼	90	36 - 100	10	20
Pyrene	0.81	F1	0.753	1.72	F1	mg/Kg	☼	120	42 - 100	1	21

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl	*53*		*42 - 100*
2-Fluorophenol (Surr)	*54*		*21 - 107*
Nitrobenzene-d5 (Surr)	*63*		*35 - 109*
Phenol-d5 (Surr)	*59*		*29 - 105*
Terphenyl-d14 (Surr)	*59*		*36 - 113*
2,4,6-Tribromophenol (Surr)	*58*		*20 - 134*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 180-216674/1-C
Matrix: Solid
Analysis Batch: 216665

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 216674

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.017	0.0088	mg/Kg		07/11/17 09:57	07/11/17 17:38	1
PCB-1221	ND		0.017	0.0086	mg/Kg		07/11/17 09:57	07/11/17 17:38	1
PCB-1232	ND		0.017	0.0066	mg/Kg		07/11/17 09:57	07/11/17 17:38	1
PCB-1242	ND		0.017	0.013	mg/Kg		07/11/17 09:57	07/11/17 17:38	1
PCB-1248	ND		0.017	0.0080	mg/Kg		07/11/17 09:57	07/11/17 17:38	1
PCB-1254	ND		0.017	0.0073	mg/Kg		07/11/17 09:57	07/11/17 17:38	1
PCB-1260	ND		0.017	0.011	mg/Kg		07/11/17 09:57	07/11/17 17:38	1
PCB-1262	ND		0.017	0.012	mg/Kg		07/11/17 09:57	07/11/17 17:38	1
PCB-1268	ND		0.017	0.0051	mg/Kg		07/11/17 09:57	07/11/17 17:38	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: MB 180-216674/1-C
Matrix: Solid
Analysis Batch: 216665

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 216674

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*68*		*23 - 150*	*07/11/17 09:57*	*07/11/17 17:38*	*1*
DCB Decachlorobiphenyl (Surr)	*72*		*23 - 150*	*07/11/17 09:57*	*07/11/17 17:38*	*1*
Tetrachloro-m-xylene (Surr)	*80*		*27 - 138*	*07/11/17 09:57*	*07/11/17 17:38*	*1*
Tetrachloro-m-xylene (Surr)	*76*		*27 - 138*	*07/11/17 09:57*	*07/11/17 17:38*	*1*

Lab Sample ID: LCS 180-216674/2-C
Matrix: Solid
Analysis Batch: 216665

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 216674

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	1.33	1.02		mg/Kg		77	52 - 126
PCB-1260	1.33	1.09		mg/Kg		82	50 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*71*		*23 - 150*
DCB Decachlorobiphenyl (Surr)	*76*		*23 - 150*
Tetrachloro-m-xylene (Surr)	*82*		*27 - 138*
Tetrachloro-m-xylene (Surr)	*76*		*27 - 138*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 180-216814/1-A
Matrix: Solid
Analysis Batch: 217031

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 216814

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		1.0	0.44	mg/Kg		07/12/17 11:52	07/13/17 14:10	1
Barium	ND		20	5.4	mg/Kg		07/12/17 11:52	07/13/17 14:10	1
Beryllium	ND		0.40	0.10	mg/Kg		07/12/17 11:52	07/13/17 14:10	1
Cadmium	ND		0.50	0.11	mg/Kg		07/12/17 11:52	07/13/17 14:10	1
Chromium	ND		0.50	0.13	mg/Kg		07/12/17 11:52	07/13/17 14:10	1
Copper	ND		2.5	0.77	mg/Kg		07/12/17 11:52	07/13/17 14:10	1
Lead	ND		1.0	0.33	mg/Kg		07/12/17 11:52	07/13/17 14:10	1
Manganese	ND		1.5	0.41	mg/Kg		07/12/17 11:52	07/13/17 14:10	1
Nickel	ND		4.0	0.90	mg/Kg		07/12/17 11:52	07/13/17 14:10	1
Selenium	ND		1.0	0.40	mg/Kg		07/12/17 11:52	07/13/17 14:10	1
Silver	ND		0.50	0.17	mg/Kg		07/12/17 11:52	07/13/17 14:10	1
Zinc	ND		2.0	1.0	mg/Kg		07/12/17 11:52	07/13/17 14:10	1

Lab Sample ID: LCS 180-216814/2-A
Matrix: Solid
Analysis Batch: 217031

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 216814

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	50.0	50.5		mg/Kg		101	80 - 120
Barium	200	201		mg/Kg		100	80 - 120
Beryllium	5.00	5.07		mg/Kg		101	80 - 120
Cadmium	5.00	5.10		mg/Kg		102	80 - 120

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCS 180-216814/2-A
Matrix: Solid
Analysis Batch: 217031

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 216814

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium	20.0	20.0		mg/Kg		100	80 - 120
Copper	25.0	25.3		mg/Kg		101	80 - 120
Lead	50.0	49.6		mg/Kg		99	80 - 120
Manganese	50.0	50.0		mg/Kg		100	80 - 120
Nickel	50.0	50.8		mg/Kg		102	80 - 120
Selenium	50.0	51.1		mg/Kg		102	80 - 120
Silver	5.00	5.06		mg/Kg		101	80 - 120
Zinc	50.0	49.7		mg/Kg		99	80 - 120

Lab Sample ID: 180-68037-1 MS
Matrix: Solid
Analysis Batch: 217031

Client Sample ID: DUP2
Prep Type: Total/NA
Prep Batch: 216814

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	7.0		57.1	55.6		mg/Kg	☼	85	75 - 125
Barium	91		228	285		mg/Kg	☼	85	75 - 125
Beryllium	0.38	J	5.71	5.27		mg/Kg	☼	86	75 - 125
Cadmium	0.20	J	5.71	5.10		mg/Kg	☼	86	75 - 125
Chromium	11		22.8	30.9		mg/Kg	☼	88	75 - 125
Copper	25		28.5	48.2		mg/Kg	☼	82	75 - 125
Lead	34		57.1	87.1		mg/Kg	☼	93	75 - 125
Manganese	430		57.1	454	4	mg/Kg	☼	36	75 - 125
Nickel	20		57.1	72.0		mg/Kg	☼	91	75 - 125
Selenium	0.68	J	57.1	49.3		mg/Kg	☼	85	75 - 125
Silver	ND		5.71	5.02		mg/Kg	☼	88	75 - 125
Zinc	75		57.1	120		mg/Kg	☼	79	75 - 125

Lab Sample ID: 180-68037-1 MSD
Matrix: Solid
Analysis Batch: 217031

Client Sample ID: DUP2
Prep Type: Total/NA
Prep Batch: 216814

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	7.0		57.7	56.2		mg/Kg	☼	85	75 - 125	1	20
Barium	91		231	297		mg/Kg	☼	89	75 - 125	4	20
Beryllium	0.38	J	5.77	5.35		mg/Kg	☼	86	75 - 125	2	20
Cadmium	0.20	J	5.77	5.16		mg/Kg	☼	86	75 - 125	1	20
Chromium	11		23.1	31.7		mg/Kg	☼	90	75 - 125	2	20
Copper	25		28.8	50.0		mg/Kg	☼	87	75 - 125	4	20
Lead	34		57.7	90.8		mg/Kg	☼	99	75 - 125	4	20
Manganese	430		57.7	511	4	mg/Kg	☼	135	75 - 125	12	20
Nickel	20		57.7	75.1		mg/Kg	☼	95	75 - 125	4	20
Selenium	0.68	J	57.7	48.9		mg/Kg	☼	84	75 - 125	1	20
Silver	ND		5.77	4.98		mg/Kg	☼	86	75 - 125	1	20
Zinc	75		57.7	135		mg/Kg	☼	104	75 - 125	11	20

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 180-216844/1-A
Matrix: Solid
Analysis Batch: 216948

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 216844

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.033	0.0074	mg/Kg		07/12/17 14:26	07/13/17 09:02	1

Lab Sample ID: LCS 180-216844/2-A
Matrix: Solid
Analysis Batch: 216948

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 216844

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.417	0.465		mg/Kg		112	80 - 120

Method: 2540G - SM 2540G

Lab Sample ID: 180-68037-11 DU
Matrix: Solid
Analysis Batch: 216682

Client Sample ID: WINDROW1, SEC 1, C
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	9.4		9.3		%		2	20
Percent Solids	90.6		90.7		%		0.2	20

Method: 9014 - Cyanide

Lab Sample ID: MB 180-216711/4-A
Matrix: Solid
Analysis Batch: 216832

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 216711

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.50	0.15	mg/Kg		07/11/17 13:12	07/11/17 17:50	1

Lab Sample ID: HLCS 180-216711/2-A
Matrix: Solid
Analysis Batch: 216832

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 216711

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.250	0.245		mg/Kg		98	90 - 110

Lab Sample ID: LCS 180-216711/3-A
Matrix: Solid
Analysis Batch: 216832

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 216711

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	158	108		mg/Kg		69	38 - 162

Lab Sample ID: LLCS 180-216711/1-A
Matrix: Solid
Analysis Batch: 216832

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 216711

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.0500	0.0490		mg/Kg		98	90 - 110

Method: 9014 - Cyanide (Continued)

Lab Sample ID: 180-68037-2 MS
Matrix: Solid
Analysis Batch: 216832

Client Sample ID: WINDROW1, SEC 3, C
Prep Type: Total/NA
Prep Batch: 216711

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.19	J	5.37	5.40		mg/Kg	☼	97	75 - 125

Lab Sample ID: 180-68037-2 MSD
Matrix: Solid
Analysis Batch: 216832

Client Sample ID: WINDROW1, SEC 3, C
Prep Type: Total/NA
Prep Batch: 216711

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cyanide, Total	0.19	J	5.08	5.09		mg/Kg	☼	96	75 - 125	6	20

GC/MS VOA

Analysis Batch: 216640

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68037-3	WINDROW1, SEC 3, B	Total/NA	Solid	8260C	216673
180-68037-5	DUP1	Total/NA	Solid	8260C	216673
180-68037-6	WINDROW1, SEC 3, A	Total/NA	Solid	8260C	216673
180-68037-7	WINDROW1, SEC 4, B	Total/NA	Solid	8260C	216673
180-68037-9	WINDROW1, SEC 2, A	Total/NA	Solid	8260C	216673
180-68037-10	WINDROW1, SEC 1, A	Total/NA	Solid	8260C	216673
180-68037-12	WINDROW1, SEC 4, A	Total/NA	Solid	8260C	216673
180-68037-13	WINDROW1, SEC 2, B	Total/NA	Solid	8260C	216673
180-68037-14	WINDROW1, SEC 1, B	Total/NA	Solid	8260C	216673
MB 180-216673/1-A	Method Blank	Total/NA	Solid	8260C	216673
LCS 180-216673/2-A	Lab Control Sample	Total/NA	Solid	8260C	216673
LCSD 180-216673/3-A	Lab Control Sample Dup	Total/NA	Solid	8260C	216673

Prep Batch: 216673

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68037-3	WINDROW1, SEC 3, B	Total/NA	Solid	5035	
180-68037-5	DUP1	Total/NA	Solid	5035	
180-68037-6	WINDROW1, SEC 3, A	Total/NA	Solid	5035	
180-68037-7	WINDROW1, SEC 4, B	Total/NA	Solid	5035	
180-68037-9	WINDROW1, SEC 2, A	Total/NA	Solid	5035	
180-68037-10	WINDROW1, SEC 1, A	Total/NA	Solid	5035	
180-68037-12	WINDROW1, SEC 4, A	Total/NA	Solid	5035	
180-68037-13	WINDROW1, SEC 2, B	Total/NA	Solid	5035	
180-68037-14	WINDROW1, SEC 1, B	Total/NA	Solid	5035	
MB 180-216673/1-A	Method Blank	Total/NA	Solid	5035	
LCS 180-216673/2-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 180-216673/3-A	Lab Control Sample Dup	Total/NA	Solid	5035	

GC/MS Semi VOA

Analysis Batch: 216666

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68037-1	DUP2	Total/NA	Solid	8270D LL	216675
180-68037-2	WINDROW1, SEC 3, C	Total/NA	Solid	8270D LL	216675
180-68037-4	WINDROW1, SEC 4, C	Total/NA	Solid	8270D LL	216675
180-68037-8	WINDROW1, SEC 2, C	Total/NA	Solid	8270D LL	216675
180-68037-11	WINDROW1, SEC 1, C	Total/NA	Solid	8270D LL	216675
MB 180-216675/1-A	Method Blank	Total/NA	Solid	8270D LL	216675
LCS 180-216675/2-A	Lab Control Sample	Total/NA	Solid	8270D LL	216675
180-68037-1 MS	DUP2	Total/NA	Solid	8270D LL	216675
180-68037-1 MSD	DUP2	Total/NA	Solid	8270D LL	216675

Prep Batch: 216675

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68037-1	DUP2	Total/NA	Solid	3541	
180-68037-2	WINDROW1, SEC 3, C	Total/NA	Solid	3541	
180-68037-4	WINDROW1, SEC 4, C	Total/NA	Solid	3541	
180-68037-8	WINDROW1, SEC 2, C	Total/NA	Solid	3541	
180-68037-11	WINDROW1, SEC 1, C	Total/NA	Solid	3541	
MB 180-216675/1-A	Method Blank	Total/NA	Solid	3541	

GC/MS Semi VOA (Continued)

Prep Batch: 216675 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 180-216675/2-A	Lab Control Sample	Total/NA	Solid	3541	
180-68037-1 MS	DUP2	Total/NA	Solid	3541	
180-68037-1 MSD	DUP2	Total/NA	Solid	3541	

GC Semi VOA

Analysis Batch: 216665

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68037-1	DUP2	Total/NA	Solid	8082A	216717
180-68037-2	WINDROW1, SEC 3, C	Total/NA	Solid	8082A	216717
180-68037-4	WINDROW1, SEC 4, C	Total/NA	Solid	8082A	216717
180-68037-8	WINDROW1, SEC 2, C	Total/NA	Solid	8082A	216717
180-68037-11	WINDROW1, SEC 1, C	Total/NA	Solid	8082A	216717
MB 180-216674/1-C	Method Blank	Total/NA	Solid	8082A	216717
LCS 180-216674/2-C	Lab Control Sample	Total/NA	Solid	8082A	216717

Prep Batch: 216674

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68037-1	DUP2	Total/NA	Solid	3541	
180-68037-2	WINDROW1, SEC 3, C	Total/NA	Solid	3541	
180-68037-4	WINDROW1, SEC 4, C	Total/NA	Solid	3541	
180-68037-8	WINDROW1, SEC 2, C	Total/NA	Solid	3541	
180-68037-11	WINDROW1, SEC 1, C	Total/NA	Solid	3541	
MB 180-216674/1-C	Method Blank	Total/NA	Solid	3541	
LCS 180-216674/2-C	Lab Control Sample	Total/NA	Solid	3541	

Cleanup Batch: 216716

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68037-1	DUP2	Total/NA	Solid	3665A	216674
180-68037-2	WINDROW1, SEC 3, C	Total/NA	Solid	3665A	216674
180-68037-4	WINDROW1, SEC 4, C	Total/NA	Solid	3665A	216674
180-68037-8	WINDROW1, SEC 2, C	Total/NA	Solid	3665A	216674
180-68037-11	WINDROW1, SEC 1, C	Total/NA	Solid	3665A	216674
MB 180-216674/1-C	Method Blank	Total/NA	Solid	3665A	216674
LCS 180-216674/2-C	Lab Control Sample	Total/NA	Solid	3665A	216674

Cleanup Batch: 216717

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68037-1	DUP2	Total/NA	Solid	3660B	216716
180-68037-2	WINDROW1, SEC 3, C	Total/NA	Solid	3660B	216716
180-68037-4	WINDROW1, SEC 4, C	Total/NA	Solid	3660B	216716
180-68037-8	WINDROW1, SEC 2, C	Total/NA	Solid	3660B	216716
180-68037-11	WINDROW1, SEC 1, C	Total/NA	Solid	3660B	216716
MB 180-216674/1-C	Method Blank	Total/NA	Solid	3660B	216716
LCS 180-216674/2-C	Lab Control Sample	Total/NA	Solid	3660B	216716

Metals

Prep Batch: 216814

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68037-1	DUP2	Total/NA	Solid	3050B	
180-68037-2	WINDROW1, SEC 3, C	Total/NA	Solid	3050B	
180-68037-4	WINDROW1, SEC 4, C	Total/NA	Solid	3050B	
180-68037-8	WINDROW1, SEC 2, C	Total/NA	Solid	3050B	
180-68037-11	WINDROW1, SEC 1, C	Total/NA	Solid	3050B	
MB 180-216814/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 180-216814/2-A	Lab Control Sample	Total/NA	Solid	3050B	
180-68037-1 MS	DUP2	Total/NA	Solid	3050B	
180-68037-1 MSD	DUP2	Total/NA	Solid	3050B	

Prep Batch: 216844

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68037-1	DUP2	Total/NA	Solid	7471B	
180-68037-2	WINDROW1, SEC 3, C	Total/NA	Solid	7471B	
180-68037-4	WINDROW1, SEC 4, C	Total/NA	Solid	7471B	
180-68037-8	WINDROW1, SEC 2, C	Total/NA	Solid	7471B	
180-68037-11	WINDROW1, SEC 1, C	Total/NA	Solid	7471B	
MB 180-216844/1-A	Method Blank	Total/NA	Solid	7471B	
LCS 180-216844/2-A	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 216948

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68037-1	DUP2	Total/NA	Solid	7471B	216844
180-68037-2	WINDROW1, SEC 3, C	Total/NA	Solid	7471B	216844
180-68037-4	WINDROW1, SEC 4, C	Total/NA	Solid	7471B	216844
180-68037-8	WINDROW1, SEC 2, C	Total/NA	Solid	7471B	216844
180-68037-11	WINDROW1, SEC 1, C	Total/NA	Solid	7471B	216844
MB 180-216844/1-A	Method Blank	Total/NA	Solid	7471B	216844
LCS 180-216844/2-A	Lab Control Sample	Total/NA	Solid	7471B	216844

Analysis Batch: 217031

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68037-1	DUP2	Total/NA	Solid	6010C	216814
180-68037-2	WINDROW1, SEC 3, C	Total/NA	Solid	6010C	216814
180-68037-4	WINDROW1, SEC 4, C	Total/NA	Solid	6010C	216814
180-68037-8	WINDROW1, SEC 2, C	Total/NA	Solid	6010C	216814
180-68037-11	WINDROW1, SEC 1, C	Total/NA	Solid	6010C	216814
MB 180-216814/1-A	Method Blank	Total/NA	Solid	6010C	216814
LCS 180-216814/2-A	Lab Control Sample	Total/NA	Solid	6010C	216814
180-68037-1 MS	DUP2	Total/NA	Solid	6010C	216814
180-68037-1 MSD	DUP2	Total/NA	Solid	6010C	216814

General Chemistry

Analysis Batch: 216682

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68037-10	WINDROW1, SEC 1, A	Total/NA	Solid	2540G	
180-68037-11	WINDROW1, SEC 1, C	Total/NA	Solid	2540G	
180-68037-12	WINDROW1, SEC 4, A	Total/NA	Solid	2540G	
180-68037-13	WINDROW1, SEC 2, B	Total/NA	Solid	2540G	

General Chemistry (Continued)

Analysis Batch: 216682 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68037-14	WINDROW1, SEC 1, B	Total/NA	Solid	2540G	
180-68037-11 DU	WINDROW1, SEC 1, C	Total/NA	Solid	2540G	

Prep Batch: 216711

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68037-1	DUP2	Total/NA	Solid	9010C	
180-68037-2	WINDROW1, SEC 3, C	Total/NA	Solid	9010C	
180-68037-4	WINDROW1, SEC 4, C	Total/NA	Solid	9010C	
180-68037-8	WINDROW1, SEC 2, C	Total/NA	Solid	9010C	
180-68037-11	WINDROW1, SEC 1, C	Total/NA	Solid	9010C	
MB 180-216711/4-A	Method Blank	Total/NA	Solid	9010C	
HLCS 180-216711/2-A	Lab Control Sample	Total/NA	Solid	9010C	
LCS 180-216711/3-A	Lab Control Sample	Total/NA	Solid	9010C	
LLCS 180-216711/1-A	Lab Control Sample	Total/NA	Solid	9010C	
180-68037-2 MS	WINDROW1, SEC 3, C	Total/NA	Solid	9010C	
180-68037-2 MSD	WINDROW1, SEC 3, C	Total/NA	Solid	9010C	

Analysis Batch: 216820

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68037-1	DUP2	Total/NA	Solid	2540G	
180-68037-2	WINDROW1, SEC 3, C	Total/NA	Solid	2540G	
180-68037-3	WINDROW1, SEC 3, B	Total/NA	Solid	2540G	
180-68037-4	WINDROW1, SEC 4, C	Total/NA	Solid	2540G	
180-68037-5	DUP1	Total/NA	Solid	2540G	
180-68037-6	WINDROW1, SEC 3, A	Total/NA	Solid	2540G	
180-68037-7	WINDROW1, SEC 4, B	Total/NA	Solid	2540G	
180-68037-8	WINDROW1, SEC 2, C	Total/NA	Solid	2540G	
180-68037-9	WINDROW1, SEC 2, A	Total/NA	Solid	2540G	

Analysis Batch: 216832

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68037-1	DUP2	Total/NA	Solid	9014	216711
180-68037-2	WINDROW1, SEC 3, C	Total/NA	Solid	9014	216711
180-68037-4	WINDROW1, SEC 4, C	Total/NA	Solid	9014	216711
180-68037-8	WINDROW1, SEC 2, C	Total/NA	Solid	9014	216711
180-68037-11	WINDROW1, SEC 1, C	Total/NA	Solid	9014	216711
MB 180-216711/4-A	Method Blank	Total/NA	Solid	9014	216711
HLCS 180-216711/2-A	Lab Control Sample	Total/NA	Solid	9014	216711
LCS 180-216711/3-A	Lab Control Sample	Total/NA	Solid	9014	216711
LLCS 180-216711/1-A	Lab Control Sample	Total/NA	Solid	9014	216711
180-68037-2 MS	WINDROW1, SEC 3, C	Total/NA	Solid	9014	216711
180-68037-2 MSD	WINDROW1, SEC 3, C	Total/NA	Solid	9014	216711

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Chain of Cus

180-68037 Chain of Custody

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Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA

Client Contact	Project Manager: Aron Krasnopoler	Site Contact: Jay Thompson	Date: 7/10/2017	COC No:
Geosyntec Consultants	Tel/Fax: 401-381-4333	Lab Contact: Dave Dunlap	Carrier: FedEx	1 of 2 COCs
10211 Wincopin Circle, 4th Floor	Analysis Turnaround Time			Sampler:
Columbia, MD 21044	☐ CALENDAR DAYS ☑ WORKING DAYS			For Lab Use Only:
410-381-4333 Phone	TAT if different from Below			
410-381-4499 FAX	☐ 2 weeks DATE 7/14/17			
Project Name: Former Sperry Remington Site - North	☐ 1 week 3 DAY as per Aron Krasnopoler			
Site: Elmira	☐ 2 days			
P O # MN0832B	☑ 1 day			

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	PCBs - 8082A	VOCs - 8260C	TCLP - Lead	6010C	8270D-LL	7471B	9014	Sample Specific Notes:
1	DUP 2	7-10-17	—	C	S	2	N	N	X			X	X	X	X	
2	Windrow 1, Sec 3, C	7-10-17	16:15	C	S	2	N	N	X			X	X	X	X	
3	Windrow 1, Sec 3, B	7-10-17	16:05	G	S	4	N	N		X						
4	Windrow 1, Sec 4, C	7-10-17	16:40	C	S	2	N	N	X			X	X	X	X	
	DUP 1	7-10-17	—	G	S	4	N	N	X	X		X	X	X	X	Dup1=grab for VOC DATE 7/11/17
	Windrow 1, Sec 3, A	7-10-17	16:00	G	S	4	N	N		X						
	Windrow 1, Sec 4, B	7-10-17	16:35	G	S	4	N	N		X						
	Windrow 1, Sec 2, C	7-10-17	14:55	C	S	2	N	N	X			X	X	X	X	
9	Windrow 1, Sec 2, A	7-10-17	14:45	G	S	4	N	N		X						
10	Windrow 1, Sec 1, A	7-10-17	14:20	G	S	4	N	N		X						
11	Windrow 1, Sec 1, C	7-10-17	14:30	C	S	2	N	N	X			X	X	X	X	
12	Windrow 1, Sec 4, A	7-10-17	16:20	G	S	4	N	N		X						

RUSH

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd: _____ Corr'd: _____		Therm ID No.: _____
Relinquished by:	Company: Geosyntec	Date/Time: 7/10/2017 1830	Received by:	Company: TAPIT	Date/Time: 7/11/17 0830
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Form No. CA-C-WI-002, Rev. 4.3, dated 12/05/2013

TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
phone 412.963.7058 fax 412.963.2468

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☑ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Aron Krasnopoler	Site Contact: Jay Thompson	Date:	COC No:
Geosyntec Consultants	Tel/Fax: 401-381-4333	Lab Contact: Dave Dunlap	Carrier: FedEx	2 of 2 COCs
10211 Wincopin Circle, 4th Floor	**Analysis Turnaround Time**			Sampler:
Columbia, MD 21044	☐ CALENDAR DAYS ☑ WORKING DAYS			**For Lab Use Only:**
410-381-4333 Phone	TAT if different from Below _____			
410-381-4499 FAX	☐ 2 weeks			
Project Name: Former Sperry Remington Site - North	☐ 1 week 3 days as per Aron Krasnopoler			
Site: Elmira	☐ 2 days			
P O # MN0832B	☑ 1 day			

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	PCBs - 8082A	VOCs - 8260C	TCLP - Lead	1010C	8270D_LL	7471B	9014	8260_LL	c Notes:
13	Windrow 1, Sec 2, B	7/10/17	14:50	G	S	4	N	N		X							
14	Windrow 1, Sec 1, B	7-10-17	14:25	G	S	4	N	N		X							
	Trip Blank	—	—	—	—	2	N	N								X	

RUSH

Preservation Used: 1= Ice, 2= HCl; 3= H_2SO_4; 4=HNO_3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd: _____ Corr'd: _____		Therm ID No.: _____
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time: 7/11/17 0830
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 180-68037-1

Login Number: 68037
List Number: 1
Creator: Dunlap, David A

List Source: TestAmerica Pittsburgh

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	False	COC not relinquished
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	see notation on COC
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

TestAmerica Job ID: 180-68037-2
Client Project/Site: Former Sperry Remington Site - North IRM

For:
Geosyntec Consultants, Inc.
10211 Wincopin Circle
4'th Floor
Columbia, Maryland 21044

Attn: Mr. Aron Krasnopoler

Veronica Bortot

Authorized for release by:
7/18/2017 10:28:37 AM
Veronica Bortot, Senior Project Manager
(412)963-2435
veronica.bortot@testamericainc.com

Designee for

David Dunlap, Senior Project Manager
(412)963-2432
david.dunlap@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68037-2

Job ID: 180-68037-2

Laboratory: TestAmerica Pittsburgh

Narrative

Job Narrative
180-68037-2

Comments
No additional comments.

Receipt
The samples were received on 7/11/2017 8:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 1.9º C, 2.0º C and 2.3º C.

GC/MS VOA
Method(s) 8260C: The continuing calibration verification (CCV) analyzed in batch 180-217200 was outside the method criteria for the following analyte: 2-Butanone (MEK) and Acetone. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte is considered estimated.

Method(s) 8260C: The following analyte recovered outside control limits for the LCS associated with analytical batch 180-217200: n-Butylbenzene. This is not indicative of a systematic control problem because these were random marginal exceedances. Qualified results have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Definitions/Glossary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68037-2

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc. TestAmerica Job ID: 180-68037-2
Project/Site: Former Sperry Remington Site - North IRM

Laboratory: TestAmerica Pittsburgh

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	11182	03-31-18

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68037-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-68037-15	TRIP BLANK	Water	07/10/17 00:00	07/11/17 08:30

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68037-2

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds (GC/MS)	SW846	TAL PIT

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68037-2

Client Sample ID: TRIP BLANK
Date Collected: 07/10/17 00:00
Date Received: 07/11/17 08:30

Lab Sample ID: 180-68037-15
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	217200	07/17/17 08:09	FBB	TAL PIT
	Instrument ID: CHHP5									

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Analyst References:

Lab: TAL PIT

Batch Type: Analysis

FBB = Frank Bungard

Client Sample ID: TRIP BLANK
Date Collected: 07/10/17 00:00
Date Received: 07/11/17 08:30

Lab Sample ID: 180-68037-15
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		5.0	3.1	ug/L			07/17/17 08:09	1
Benzene	ND		1.0	0.18	ug/L			07/17/17 08:09	1
2-Butanone (MEK)	ND		5.0	2.6	ug/L			07/17/17 08:09	1
Carbon tetrachloride	ND		1.0	0.56	ug/L			07/17/17 08:09	1
Chlorobenzene	ND		1.0	0.15	ug/L			07/17/17 08:09	1
Chloroform	ND		1.0	0.27	ug/L			07/17/17 08:09	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			07/17/17 08:09	1
1,2-Dichlorobenzene	ND		1.0	0.23	ug/L			07/17/17 08:09	1
1,3-Dichlorobenzene	ND		1.0	0.21	ug/L			07/17/17 08:09	1
1,4-Dichlorobenzene	ND		1.0	0.24	ug/L			07/17/17 08:09	1
1,1-Dichloroethane	ND		1.0	0.34	ug/L			07/17/17 08:09	1
1,2-Dichloroethane	ND		1.0	0.24	ug/L			07/17/17 08:09	1
1,1-Dichloroethene	ND		1.0	0.32	ug/L			07/17/17 08:09	1
Ethylbenzene	ND		1.0	0.25	ug/L			07/17/17 08:09	1
Methylene Chloride	ND		1.0	0.94	ug/L			07/17/17 08:09	1
Methyl tert-butyl ether	ND		1.0	0.20	ug/L			07/17/17 08:09	1
n-Butylbenzene	ND	*	1.0	0.22	ug/L			07/17/17 08:09	1
N-Propylbenzene	ND		1.0	0.20	ug/L			07/17/17 08:09	1
sec-Butylbenzene	ND		1.0	0.22	ug/L			07/17/17 08:09	1
tert-Butylbenzene	ND		1.0	0.17	ug/L			07/17/17 08:09	1
Tetrachloroethene	ND		1.0	0.24	ug/L			07/17/17 08:09	1
Toluene	ND		1.0	0.16	ug/L			07/17/17 08:09	1
trans-1,2-Dichloroethene	ND		1.0	0.20	ug/L			07/17/17 08:09	1
1,1,1-Trichloroethane	ND		1.0	0.27	ug/L			07/17/17 08:09	1
Trichloroethene	ND		1.0	0.20	ug/L			07/17/17 08:09	1
1,2,4-Trimethylbenzene	ND		1.0	0.18	ug/L			07/17/17 08:09	1
1,3,5-Trimethylbenzene	ND		1.0	0.17	ug/L			07/17/17 08:09	1
Vinyl chloride	ND		1.0	0.17	ug/L			07/17/17 08:09	1
Xylenes, Total	ND		2.0	0.27	ug/L			07/17/17 08:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*72 - 120*		*07/17/17 08:09*	*1*
Dibromofluoromethane (Surr)	*102*		*77 - 127*		*07/17/17 08:09*	*1*
1,2-Dichloroethane-d4 (Surr)	*88*		*72 - 134*		*07/17/17 08:09*	*1*
Toluene-d8 (Surr)	*84*		*80 - 120*		*07/17/17 08:09*	*1*

Method: 8260C - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 180-217200/7
Matrix: Water
Analysis Batch: 217200

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		5.0	3.1	ug/L			07/17/17 07:13	1
Benzene	ND		1.0	0.18	ug/L			07/17/17 07:13	1
2-Butanone (MEK)	ND		5.0	2.6	ug/L			07/17/17 07:13	1
Carbon tetrachloride	ND		1.0	0.56	ug/L			07/17/17 07:13	1
Chlorobenzene	ND		1.0	0.15	ug/L			07/17/17 07:13	1
Chloroform	ND		1.0	0.27	ug/L			07/17/17 07:13	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			07/17/17 07:13	1
1,2-Dichlorobenzene	ND		1.0	0.23	ug/L			07/17/17 07:13	1
1,3-Dichlorobenzene	ND		1.0	0.21	ug/L			07/17/17 07:13	1
1,4-Dichlorobenzene	ND		1.0	0.24	ug/L			07/17/17 07:13	1
1,1-Dichloroethane	ND		1.0	0.34	ug/L			07/17/17 07:13	1
1,2-Dichloroethane	ND		1.0	0.24	ug/L			07/17/17 07:13	1
1,1-Dichloroethene	ND		1.0	0.32	ug/L			07/17/17 07:13	1
Ethylbenzene	ND		1.0	0.25	ug/L			07/17/17 07:13	1
Methylene Chloride	ND		1.0	0.94	ug/L			07/17/17 07:13	1
Methyl tert-butyl ether	ND		1.0	0.20	ug/L			07/17/17 07:13	1
n-Butylbenzene	ND		1.0	0.22	ug/L			07/17/17 07:13	1
N-Propylbenzene	ND		1.0	0.20	ug/L			07/17/17 07:13	1
sec-Butylbenzene	ND		1.0	0.22	ug/L			07/17/17 07:13	1
tert-Butylbenzene	ND		1.0	0.17	ug/L			07/17/17 07:13	1
Tetrachloroethene	ND		1.0	0.24	ug/L			07/17/17 07:13	1
Toluene	ND		1.0	0.16	ug/L			07/17/17 07:13	1
trans-1,2-Dichloroethene	ND		1.0	0.20	ug/L			07/17/17 07:13	1
1,1,1-Trichloroethane	ND		1.0	0.27	ug/L			07/17/17 07:13	1
Trichloroethene	ND		1.0	0.20	ug/L			07/17/17 07:13	1
1,2,4-Trimethylbenzene	ND		1.0	0.18	ug/L			07/17/17 07:13	1
1,3,5-Trimethylbenzene	ND		1.0	0.17	ug/L			07/17/17 07:13	1
Vinyl chloride	ND		1.0	0.17	ug/L			07/17/17 07:13	1
Xylenes, Total	ND		2.0	0.27	ug/L			07/17/17 07:13	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*72 - 120*		*07/17/17 07:13*	*1*
Dibromofluoromethane (Surr)	*97*		*77 - 127*		*07/17/17 07:13*	*1*
1,2-Dichloroethane-d4 (Surr)	*85*		*72 - 134*		*07/17/17 07:13*	*1*
Toluene-d8 (Surr)	*85*		*80 - 120*		*07/17/17 07:13*	*1*

Lab Sample ID: LCS 180-217200/4
Matrix: Water
Analysis Batch: 217200

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	20.0	15.6		ug/L		78	10 - 150
Benzene	10.0	11.1		ug/L		111	80 - 121
2-Butanone (MEK)	20.0	16.7		ug/L		84	41 - 150
Carbon tetrachloride	10.0	11.6		ug/L		116	59 - 145
Chlorobenzene	10.0	10.7		ug/L		107	80 - 120
Chloroform	10.0	10.2		ug/L		102	78 - 122
cis-1,2-Dichloroethene	10.0	10.7		ug/L		107	80 - 120

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 180-217200/4
Matrix: Water
Analysis Batch: 217200

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichlorobenzene	10.0	10.6		ug/L		106	80 - 120
1,3-Dichlorobenzene	10.0	10.5		ug/L		105	80 - 120
1,4-Dichlorobenzene	10.0	10.6		ug/L		106	80 - 120
1,1-Dichloroethane	10.0	10.1		ug/L		101	76 - 126
1,2-Dichloroethane	10.0	8.79		ug/L		88	72 - 126
1,1-Dichloroethene	10.0	12.0		ug/L		120	71 - 122
Ethylbenzene	10.0	11.3		ug/L		113	80 - 123
Methylene Chloride	10.0	10.1		ug/L		101	71 - 129
Methyl tert-butyl ether	10.0	9.36		ug/L		94	68 - 124
n-Butylbenzene	10.0	12.1	*	ug/L		121	75 - 120
N-Propylbenzene	10.0	10.8		ug/L		108	78 - 121
sec-Butylbenzene	10.0	11.7		ug/L		117	80 - 121
tert-Butylbenzene	10.0	11.2		ug/L		112	79 - 120
Tetrachloroethene	10.0	12.0		ug/L		120	80 - 122
Toluene	10.0	10.9		ug/L		109	80 - 125
trans-1,2-Dichloroethene	10.0	11.6		ug/L		116	80 - 121
1,1,1-Trichloroethane	10.0	10.8		ug/L		108	57 - 128
Trichloroethene	10.0	11.0		ug/L		110	79 - 120
1,2,4-Trimethylbenzene	10.0	11.2		ug/L		112	80 - 120
1,3,5-Trimethylbenzene	10.0	11.2		ug/L		112	80 - 122
Vinyl chloride	10.0	10.3		ug/L		103	61 - 138
Xylenes, Total	20.0	22.4		ug/L		112	80 - 123

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*72 - 120*
Dibromofluoromethane (Surr)	*104*		*77 - 127*
1,2-Dichloroethane-d4 (Surr)	*93*		*72 - 134*
Toluene-d8 (Surr)	*107*		*80 - 120*

Lab Sample ID: LCSD 180-217200/5
Matrix: Water
Analysis Batch: 217200

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	20.0	13.8		ug/L		69	10 - 150	12	35
Benzene	10.0	10.3		ug/L		103	80 - 121	7	15
2-Butanone (MEK)	20.0	15.1		ug/L		76	41 - 150	10	35
Carbon tetrachloride	10.0	10.2		ug/L		102	59 - 145	13	19
Chlorobenzene	10.0	9.21		ug/L		92	80 - 120	15	15
Chloroform	10.0	9.53		ug/L		95	78 - 122	7	15
cis-1,2-Dichloroethene	10.0	9.89		ug/L		99	80 - 120	8	17
1,2-Dichlorobenzene	10.0	9.73		ug/L		97	80 - 120	9	15
1,3-Dichlorobenzene	10.0	9.69		ug/L		97	80 - 120	8	15
1,4-Dichlorobenzene	10.0	9.55		ug/L		96	80 - 120	10	15
1,1-Dichloroethane	10.0	9.49		ug/L		95	76 - 126	7	22
1,2-Dichloroethane	10.0	8.35		ug/L		83	72 - 126	5	15
1,1-Dichloroethene	10.0	10.8		ug/L		108	71 - 122	10	18
Ethylbenzene	10.0	9.77		ug/L		98	80 - 123	14	15

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 180-217200/5
Matrix: Water
Analysis Batch: 217200

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methylene Chloride			10.0	9.43		ug/L		94	71 - 129	7	19
Methyl tert-butyl ether			10.0	9.04		ug/L		90	68 - 124	4	25
n-Butylbenzene			10.0	10.8		ug/L		108	75 - 120	12	15
N-Propylbenzene			10.0	9.52		ug/L		95	78 - 121	12	15
sec-Butylbenzene			10.0	10.5		ug/L		105	80 - 121	11	15
tert-Butylbenzene			10.0	10.2		ug/L		102	79 - 120	10	15
Tetrachloroethene			10.0	10.4		ug/L		104	80 - 122	14	15
Toluene			10.0	9.46		ug/L		95	80 - 125	14	15
trans-1,2-Dichloroethene			10.0	10.1		ug/L		101	80 - 121	13	18
1,1,1-Trichloroethane			10.0	9.49		ug/L		95	57 - 128	13	19
Trichloroethene			10.0	10.1		ug/L		101	79 - 120	9	15
1,2,4-Trimethylbenzene			10.0	10.2		ug/L		102	80 - 120	10	15
1,3,5-Trimethylbenzene			10.0	10.1		ug/L		101	80 - 122	10	15
Vinyl chloride			10.0	9.05		ug/L		91	61 - 138	12	16
Xylenes, Total			20.0	19.6		ug/L		98	80 - 123	13	15

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*72 - 120*
Dibromofluoromethane (Surr)	*103*		*77 - 127*
1,2-Dichloroethane-d4 (Surr)	*93*		*72 - 134*
Toluene-d8 (Surr)	*99*		*80 - 120*

QC Association Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68037-2

GC/MS VOA

Analysis Batch: 217200

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68037-15	TRIP BLANK	Total/NA	Water	8260C	
MB 180-217200/7	Method Blank	Total/NA	Water	8260C	
LCS 180-217200/4	Lab Control Sample	Total/NA	Water	8260C	
LCSD 180-217200/5	Lab Control Sample Dup	Total/NA	Water	8260C	

TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
phone 412.963.7058 fax 412.963.2468

Chain of Cus

180-68037 Chain of Custody

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA

Client Contact	Project Manager: Aron Krasnopoler	Site Contact: Jay Thompson	Date: 7/10/2017	COC No:
Geosyntec Consultants	Tel/Fax: 401-381-4333	Lab Contact: Dave Dunlap	Carrier: FedEx	1 of 2 COCs
10211 Wincopin Circle, 4th Floor	Analysis Turnaround Time			Sampler:
Columbia, MD 21044	☐ CALENDAR DAYS ☑ WORKING DAYS			For Lab Use Only:
410-381-4333 Phone	TAT if different from Below			
410-381-4499 FAX	☐ 2 weeks DTO 7/14/17			
Project Name: Former Sperry Remington Site - North	☐ 1 week 3 Lee Y as per Aron Krasnopoler			
Site: Elmira	☐ 2 days			
P O # MN0832B	☑ 1 day			

RUSH

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	PCBs - 8082A	VOCs - 8260C	TCLP - Lead	6010C	8270D-LL	7471B	9014	Sample Specific Notes:
1	DUP 2	7-10-17	—	C	S	2	N	N	X			X	X	X	X	
2	Windrow 1, Sec 3, C	7-10-17	16:15	C	S	2	N	N	X			X	X	X	X	
3	Windrow 1, Sec 3, B	7-10-17	16:05	G	S	4	N	N		X						
4	Windrow 1, Sec 4, C	7-10-17	16:40	C	S	2	N	N	X			X	X	X	X	
	DUP 1	7-10-17	—	G	S	24	N	N	X	X		DO 7/11/17	X	X	X	Dup1=grab for VOC DO 7/11/17
5	Windrow 1, Sec 3, A	7-10-17	16:00	G	S	4	N	N		X						
6	Windrow 1, Sec 4, B	7-10-17	16:35	G	S	4	N	N		X						
7	Windrow 1, Sec 2, C	7-10-17	14:55	C	S	2	N	N	X			X	X	X	X	
8	Windrow 1, Sec 2, A	7-10-17	14:45	G	S	4	N	N		X						
9	Windrow 1, Sec 1, A	7-10-17	14:20	G	S	4	N	N		X						
10	Windrow 1, Sec 1, C	7-10-17	14:30	C	S	2	N	N	X			X	X	X	X	
11	Windrow 1, Sec 4, A	7-10-17	16:20	G	S	4	N	N		X						

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd: _____ Corr'd: _____		Therm ID No.: _____
Relinquished by:	Company: Geosyntec	Date/Time: 7/10/2017 1830	Received by:	Company: TAPIT	Date/Time: 7/11/17 0830
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Form No. CA-C-WI-002, Rev. 4.3, dated 12/05/2013

TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
phone 412.963.7058 fax 412.963.2468

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☑ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Aron Krasnopoler	Site Contact: Jay Thompson	Date:	COC No:
Geosyntec Consultants	Tel/Fax: 401-381-4333	Lab Contact: Dave Dunlap	Carrier: FedEx	2 of 2 COCs
10211 Wincopin Circle, 4th Floor	Analysis Turnaround Time			Sampler:
Columbia, MD 21044	☐ CALENDAR DAYS ☑ WORKING DAYS			For Lab Use Only:
410-381-4333 Phone	TAT if different from Below			
410-381-4499 FAX	☐ 2 weeks			
Project Name: Former Sperry Remington Site - North	☐ 1 week 3 days as per Aron Krasnopoler			
Site: Elmira	☐ 2 days			
P O # MN0832B	☑ 1 day			

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	PCBs - 8082A	VOCs - 8260C	TCLP - Lead	1010C	8270D_LL	7471B	9014	8260_LL	c Notes:
13	Windrow 1, Sec 2, B	7/10/17	14:30	G	S	4	N	N		X							
14	Windrow 1, Sec 1, B	7-10-17	14:25	G	S	4	N	N		X							
	Trip Blank	—	—	—	—	2	N	N								X	

RUSH

Preservation Used: 1= Ice, 2= HCl; 3= H_2SO_4; 4=HNO_3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temp. (°C): Obs'd:	Corr'd:	Therm ID No.:

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time: 7/11/17 0830
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Form No. CA-C-WI-002, Rev. 4.3, dated 12/05/2013

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 180-68037-2

Login Number: 68037
List Number: 1
Creator: Dunlap, David A

List Source: TestAmerica Pittsburgh

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	False	COC not relinquished
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	see notation on COC
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

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ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

TestAmerica Job ID: 180-68096-1
Client Project/Site: Former Sperry Remington Site - North IRM

For:
Geosyntec Consultants, Inc.
10211 Wincopin Circle
4'th Floor
Columbia, Maryland 21044

Attn: Mr. Aron Krasnopoler

Veronica Bortot

Authorized for release by:
7/18/2017 12:39:21 PM
Veronica Bortot, Senior Project Manager
(412)963-2435
veronica.bortot@testamericainc.com

Designee for

David Dunlap, Senior Project Manager
(412)963-2432
david.dunlap@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Job ID: 180-68096-1

Laboratory: TestAmerica Pittsburgh

Narrative

Job Narrative
180-68096-1

Comments
No additional comments.

Receipt
The samples were received on 7/12/2017 9:10 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 1.2º C, 2.1º C and 3.1º C.

Receipt Exceptions
The following volatile samples were analyzed with significant headspace in two out of two voa vials: TRIP BLANK 1 (180-68096-37) and TRIP BLANK 2 (180-68096-38). Significant headspace is defined as a bubble greater than 6 mm in diameter.

GC/MS VOA
Method(s) 8260C: The continuing calibration verification (CCV) analyzed in batch 180-217186 was outside the method criteria for the following analyte: Carbon Tetrachloride. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte is considered estimated.

Method(s) 8260C: The continuing calibration verification (CCV) analyzed in batch 180-217056 was outside the method criteria for the following analyte(s): Carbon Tetrachloride. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method(s) 8260C: The continuing calibration verification (CCV) analyzed in batch 180-217200 was outside the method criteria for the following analyte: 2-Butanone (MEK) and Acetone. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte is considered estimated.

Method(s) 8260C: The following analyte recovered outside control limits for the LCS associated with analytical batch 180-217200: n-Butylbenzene. This is not indicative of a systematic control problem because these were random marginal exceedances. Qualified results have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method(s) 8270D LL: The following samples was diluted to bring the concentration of target analytes within the calibration range (extract viscous, dark in color): W2, S5 C 71117 (180-68096-18) and W3, S1, C 71117 (180-68096-23). Elevated reporting limits (RLs) are provided.

Method(s) 8270D LL: The following samples was diluted due to the nature of the sample matrix (extract viscous, dark in color): W1, S5, C 71117 (180-68096-3), W2, S1, C 71117 (180-68096-6), W2, S2, C 71117 (180-68096-9), W2, S3, C 71117 (180-68096-12), W2, S4, C 71117 (180-68096-15) and DUP-4 (180-68096-22). This is the lowest dilution possible for these samples. Elevated reporting limits (RLs) are provided.

Method(s) 8270D LL: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and RPD's for preparation batch 180-216880 and analytical batch 180-216940 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits. They are at a 20x dilution due to matrix.

Method(s) 8270D LL: The continuing calibration verification (CCV) associated with batch 180-216940 recovered above the upper control limit for Pentachlorophenol. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Job ID: 180-68096-1 (Continued)

Laboratory: TestAmerica Pittsburgh (Continued)

Method(s) 8270D LL: The following samples was diluted due to the nature of the sample matrix (extract viscous, dark in color): W3, S2, C 71117 (180-68096-26), W3, S3, C 71117 (180-68096-29), W3, S4, C 71117 (180-68096-32) and W3, S5, C 71117 (180-68096-36). This is the lowest dilution possible for these samples. Elevated reporting limits (RLs) are provided.

Method(s) 8270D LL: The continuing calibration verification (CCV) associated with batch 180-217242 recovered above the upper control limit for Pentachlorophenol. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method(s) 8270D LL: The continuing calibration verification (CCV) analyzed in batch 180-217242 was outside the method criteria for the following analyte(s): Benzo[g,h,i]perylene was >20% low. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals
Method(s) 6010C: The serial dilution performed for the following sample associated with prep batch 216920 was outside the control limits for manganese and zinc: W2, S1, C 71117 (180-68096-6)

Method(s) 6010C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for prep batch 216920 were outside the control limits for copper and zinc. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) 6010C: The matrix spike / matrix spike duplicate (MS/MSD) precision for prep batch 216920 was outside the control limits for manganese. Sample matrix interference and/or non-homogeneity are suspected.

Method(s) 7471B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for 217097 were outside the control limits for mercury. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Definitions/Glossary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68096-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	LCS or LCSD is outside acceptance limits.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F2	MS/MSD RPD exceeds control limits
F1	MS and/or MSD Recovery is outside acceptance limits.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

General Chemistry

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc. TestAmerica Job ID: 180-68096-1
Project/Site: Former Sperry Remington Site - North IRM

Laboratory: TestAmerica Pittsburgh

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	11182	03-31-18

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
2540G		Solid	Percent Moisture
2540G		Solid	Percent Solids
8270D LL	3541	Solid	1,4-Dioxane

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68096-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-68096-1	W1, S5, A 71117	Solid	07/11/17 10:15	07/12/17 09:10
180-68096-2	W1, S5, B 71117	Solid	07/11/17 10:20	07/12/17 09:10
180-68096-3	W1, S5, C 71117	Solid	07/11/17 10:25	07/12/17 09:10
180-68096-4	W2, S1, A 71117	Solid	07/11/17 10:45	07/12/17 09:10
180-68096-5	W2, S1, B 71117	Solid	07/11/17 10:50	07/12/17 09:10
180-68096-6	W2, S1, C 71117	Solid	07/11/17 10:55	07/12/17 09:10
180-68096-7	W2, S2, A 71117	Solid	07/11/17 11:15	07/12/17 09:10
180-68096-8	W2, S2, B 71117	Solid	07/11/17 11:20	07/12/17 09:10
180-68096-9	W2, S2, C 71117	Solid	07/11/17 11:25	07/12/17 09:10
180-68096-10	W2, S3, A 71117	Solid	07/11/17 11:45	07/12/17 09:10
180-68096-11	W2, S3, B 71117	Solid	07/11/17 11:50	07/12/17 09:10
180-68096-12	W2, S3, C 71117	Solid	07/11/17 11:55	07/12/17 09:10
180-68096-13	W2, S4, A 71117	Solid	07/11/17 12:15	07/12/17 09:10
180-68096-14	W2, S4, B 71117	Solid	07/11/17 12:20	07/12/17 09:10
180-68096-15	W2, S4, C 71117	Solid	07/11/17 12:25	07/12/17 09:10
180-68096-16	W2, S5 A 71117	Solid	07/11/17 12:45	07/12/17 09:10
180-68096-17	W2, S5 B 71117	Solid	07/11/17 12:50	07/12/17 09:10
180-68096-18	W2, S5 C 71117	Solid	07/11/17 12:55	07/12/17 09:10
180-68096-19	W3, S1 A 71117	Solid	07/11/17 13:15	07/12/17 09:10
180-68096-20	W3, S1 B 71117	Solid	07/11/17 13:20	07/12/17 09:10
180-68096-21	DUP-3	Solid	07/11/17 00:00	07/12/17 09:10
180-68096-22	DUP-4	Solid	07/11/17 00:00	07/12/17 09:10
180-68096-23	W3, S1, C 71117	Solid	07/11/17 13:25	07/12/17 09:10
180-68096-24	W3, S2, A 71117	Solid	07/11/17 13:45	07/12/17 09:10
180-68096-25	W3, S2, B 71117	Solid	07/11/17 13:50	07/12/17 09:10
180-68096-26	W3, S2, C 71117	Solid	07/11/17 13:55	07/12/17 09:10
180-68096-27	W3, S3, A 71117	Solid	07/11/17 14:15	07/12/17 09:10
180-68096-28	W3, S3, B 71117	Solid	07/11/17 14:20	07/12/17 09:10
180-68096-29	W3, S3, C 71117	Solid	07/11/17 14:25	07/12/17 09:10
180-68096-30	W3, S4, A 71117	Solid	07/11/17 14:45	07/12/17 09:10
180-68096-31	W3, S4, B 71117	Solid	07/11/17 14:50	07/12/17 09:10
180-68096-32	W3, S4, C 71117	Solid	07/11/17 14:55	07/12/17 09:10
180-68096-33	DUP-5	Solid	07/11/17 00:00	07/12/17 09:10
180-68096-34	W3, S5, A 71117	Solid	07/11/17 15:15	07/12/17 09:10
180-68096-35	W3, S5, B 71117	Solid	07/11/17 15:20	07/12/17 09:10
180-68096-36	W3, S5, C 71117	Solid	07/11/17 15:25	07/12/17 09:10
180-68096-37	TRIP BLANK 1	Water	07/11/17 00:00	07/12/17 09:10
180-68096-38	TRIP BLANK 2	Water	07/11/17 00:00	07/12/17 09:10

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68096-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL PIT
8260C	Volatile Organic Compounds (GC/MS)	SW846	TAL PIT
8270D LL	Semivolatile Organic Compounds by GC/MS - Low Level	SW846	TAL PIT
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL PIT
6010C	Metals (ICP)	SW846	TAL PIT
7471B	Mercury (CVAA)	SW846	TAL PIT
2540G	SM 2540G	SM22	TAL PIT
9014	Cyanide	SW846	TAL PIT

Protocol References:

SM22 = SM22

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68096-1

Client Sample ID: W1, S5, A 71117
Date Collected: 07/11/17 10:15
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216865	07/12/17 15:57	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W1, S5, A 71117
Date Collected: 07/11/17 10:15
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-1
Matrix: Solid
Percent Solids: 89.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.2467 g	5 mL	216904	07/13/17 06:04	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	216893	07/13/17 12:46	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W1, S5, B 71117
Date Collected: 07/11/17 10:20
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216865	07/12/17 15:57	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W1, S5, B 71117
Date Collected: 07/11/17 10:20
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-2
Matrix: Solid
Percent Solids: 89.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.2872 g	5 mL	216904	07/13/17 06:04	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	216893	07/13/17 13:08	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W1, S5, C 71117
Date Collected: 07/11/17 10:25
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216865	07/12/17 15:57	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W1, S5, C 71117
Date Collected: 07/11/17 10:25
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-3
Matrix: Solid
Percent Solids: 90.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.1 g	0.5 mL	216880	07/13/17 03:37	BAP	TAL PIT

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68096-1

Client Sample ID: W1, S5, C 71117

Lab Sample ID: 180-68096-3
Date Collected: 07/11/17 10:25
Matrix: Solid
Date Received: 07/12/17 09:10
Percent Solids: 90.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8270D LL		10	1 mL	1 mL	216940	07/13/17 19:58	DLF	TAL PIT
	Instrument ID: CH71									
Total/NA	Prep	3541			15.3 g	20.0 mL	216879	07/13/17 03:34	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	216929	07/13/17 09:31	DFE	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	216930	07/13/17 09:32	DFE	TAL PIT
Total/NA	Analysis	8082A		1			217035	07/14/17 13:47	JMO	TAL PIT
	Instrument ID: CHGC8									
Total/NA	Prep	3050B			0.99 g	100 mL	216920	07/13/17 09:05	CRM	TAL PIT
Total/NA	Analysis	6010C		1			217205	07/14/17 12:51	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.61 g	100 mL	217097	07/14/17 11:17	RJR	TAL PIT
Total/NA	Analysis	7471B		1			217252	07/17/17 09:11	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.02 g	50 mL	216972	07/13/17 12:02	JAS	TAL PIT
Total/NA	Analysis	9014		1			217087	07/13/17 15:56	JAS	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: W2, S1, A 71117

Lab Sample ID: 180-68096-4
Date Collected: 07/11/17 10:45
Matrix: Solid
Date Received: 07/12/17 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216865	07/12/17 15:57	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W2, S1, A 71117

Lab Sample ID: 180-68096-4
Date Collected: 07/11/17 10:45
Matrix: Solid
Date Received: 07/12/17 09:10
Percent Solids: 90.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.3324 g	5 mL	216904	07/13/17 06:04	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	216893	07/13/17 09:22	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W2, S1, B 71117

Lab Sample ID: 180-68096-5
Date Collected: 07/11/17 10:50
Matrix: Solid
Date Received: 07/12/17 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216865	07/12/17 15:57	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68096-1

Client Sample ID: W2, S1, B 71117
Date Collected: 07/11/17 10:50
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-5
Matrix: Solid
Percent Solids: 91.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.182 g	5 mL	216904	07/13/17 06:04	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	216893	07/13/17 13:31	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W2, S1, C 71117
Date Collected: 07/11/17 10:55
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216865	07/12/17 15:57	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W2, S1, C 71117
Date Collected: 07/11/17 10:55
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-6
Matrix: Solid
Percent Solids: 89.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.5 g	0.5 mL	216880	07/13/17 03:37	BAP	TAL PIT
Total/NA	Analysis	8270D LL		20	1 mL	1 mL	216940	07/13/17 18:37	DLF	TAL PIT
	Instrument ID: CH71									
Total/NA	Prep	3541			15.1 g	20.0 mL	216879	07/13/17 03:34	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	216929	07/13/17 09:31	DFE	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	216930	07/13/17 09:32	DFE	TAL PIT
Total/NA	Analysis	8082A		1			217035	07/14/17 14:07	JMO	TAL PIT
	Instrument ID: CHGC8									
Total/NA	Prep	3050B			1.01 g	100 mL	216920	07/13/17 09:05	CRM	TAL PIT
Total/NA	Analysis	6010C		1			217205	07/14/17 12:57	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.62 g	100 mL	217097	07/14/17 11:17	RJR	TAL PIT
Total/NA	Analysis	7471B		1			217252	07/17/17 09:13	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.05 g	50 mL	216972	07/13/17 12:02	JAS	TAL PIT
Total/NA	Analysis	9014		1			217087	07/13/17 15:58	JAS	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: W2, S2, A 71117
Date Collected: 07/11/17 11:15
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216865	07/12/17 15:57	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W2, S2, A 71117
Date Collected: 07/11/17 11:15
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-7
Matrix: Solid
Percent Solids: 88.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.9331 g	5 mL	216904	07/13/17 06:04	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	216893	07/13/17 13:54	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W2, S2, B 71117
Date Collected: 07/11/17 11:20
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216865	07/12/17 15:57	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W2, S2, B 71117
Date Collected: 07/11/17 11:20
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-8
Matrix: Solid
Percent Solids: 90.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.7244 g	5 mL	216904	07/13/17 06:04	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	216893	07/13/17 14:16	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W2, S2, C 71117
Date Collected: 07/11/17 11:25
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216865	07/12/17 15:57	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W2, S2, C 71117
Date Collected: 07/11/17 11:25
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-9
Matrix: Solid
Percent Solids: 88.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.2 g	0.5 mL	216880	07/13/17 03:37	BAP	TAL PIT
Total/NA	Analysis	8270D LL		5	1 mL	1 mL	216940	07/13/17 20:25	DLF	TAL PIT
	Instrument ID: CH71									
Total/NA	Prep	3541			15.2 g	20.0 mL	216879	07/13/17 03:34	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	216929	07/13/17 09:31	DFE	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	216930	07/13/17 09:32	DFE	TAL PIT
Total/NA	Analysis	8082A		1			217035	07/14/17 15:48	JMO	TAL PIT
	Instrument ID: CHGC8									
Total/NA	Prep	3050B			0.98 g	100 mL	216920	07/13/17 09:05	CRM	TAL PIT

Client Sample ID: W2, S2, C 71117

Lab Sample ID: 180-68096-9
Date Collected: 07/11/17 11:25
Matrix: Solid
Date Received: 07/12/17 09:10
Percent Solids: 88.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	6010C		1			217205	07/14/17 13:22	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.64 g	100 mL	217097	07/14/17 11:17	RJR	TAL PIT
Total/NA	Analysis	7471B		1			217252	07/17/17 09:19	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.05 g	50 mL	216972	07/13/17 12:02	JAS	TAL PIT
Total/NA	Analysis	9014		1			217087	07/13/17 16:07	JAS	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: W2, S3, A 71117

Lab Sample ID: 180-68096-10
Date Collected: 07/11/17 11:45
Matrix: Solid
Date Received: 07/12/17 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216865	07/12/17 15:57	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W2, S3, A 71117

Lab Sample ID: 180-68096-10
Date Collected: 07/11/17 11:45
Matrix: Solid
Date Received: 07/12/17 09:10
Percent Solids: 90.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3.4758 g	5 mL	216904	07/13/17 06:04	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	216893	07/13/17 14:39	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W2, S3, B 71117

Lab Sample ID: 180-68096-11
Date Collected: 07/11/17 11:50
Matrix: Solid
Date Received: 07/12/17 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216865	07/12/17 15:57	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W2, S3, B 71117

Lab Sample ID: 180-68096-11
Date Collected: 07/11/17 11:50
Matrix: Solid
Date Received: 07/12/17 09:10
Percent Solids: 93.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.2861 g	5 mL	216904	07/13/17 06:04	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	216893	07/13/17 15:02	KLG	TAL PIT
	Instrument ID: CHHP3									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68096-1

Client Sample ID: W2, S3, C 71117
Lab Sample ID: 180-68096-12
Date Collected: 07/11/17 11:55
Matrix: Solid
Date Received: 07/12/17 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216865	07/12/17 15:57	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W2, S3, C 71117
Lab Sample ID: 180-68096-12
Date Collected: 07/11/17 11:55
Matrix: Solid
Date Received: 07/12/17 09:10
Percent Solids: 91.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.4 g	0.5 mL	216880	07/13/17 03:37	BAP	TAL PIT
Total/NA	Analysis	8270D LL		10	1 mL	1 mL	216940	07/13/17 20:52	DLF	TAL PIT
	Instrument ID: CH71									
Total/NA	Prep	3541			15.0 g	20.0 mL	216879	07/13/17 03:34	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	216929	07/13/17 09:31	DFE	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	216930	07/13/17 09:32	DFE	TAL PIT
Total/NA	Analysis	8082A		1			217035	07/14/17 16:08	JMO	TAL PIT
	Instrument ID: CHGC8									
Total/NA	Prep	3050B			1.01 g	100 mL	216920	07/13/17 09:05	CRM	TAL PIT
Total/NA	Analysis	6010C		1			217205	07/14/17 13:37	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.66 g	100 mL	217097	07/14/17 11:17	RJR	TAL PIT
Total/NA	Analysis	7471B		1			217252	07/17/17 09:21	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.04 g	50 mL	216972	07/13/17 12:02	JAS	TAL PIT
Total/NA	Analysis	9014		1			217087	07/13/17 16:08	JAS	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: W2, S4, A 71117
Lab Sample ID: 180-68096-13
Date Collected: 07/11/17 12:15
Matrix: Solid
Date Received: 07/12/17 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216865	07/12/17 15:57	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W2, S4, A 71117
Lab Sample ID: 180-68096-13
Date Collected: 07/11/17 12:15
Matrix: Solid
Date Received: 07/12/17 09:10
Percent Solids: 90.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.8715 g	5 mL	216904	07/13/17 06:04	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	216893	07/13/17 15:24	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W2, S4, B 71117
Date Collected: 07/11/17 12:20
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216865	07/12/17 15:57	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W2, S4, B 71117
Date Collected: 07/11/17 12:20
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-14
Matrix: Solid
Percent Solids: 90.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.6002 g	5 mL	216904	07/13/17 06:04	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	216893	07/13/17 15:47	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W2, S4, C 71117
Date Collected: 07/11/17 12:25
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-15
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216865	07/12/17 15:57	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W2, S4, C 71117
Date Collected: 07/11/17 12:25
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-15
Matrix: Solid
Percent Solids: 91.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	0.5 mL	216880	07/13/17 03:37	BAP	TAL PIT
Total/NA	Analysis	8270D LL		5	1 mL	1 mL	216940	07/13/17 21:20	DLF	TAL PIT
	Instrument ID: CH71									
Total/NA	Prep	3541			15.0 g	20.0 mL	216879	07/13/17 03:34	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	216929	07/13/17 09:31	DFE	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	216930	07/13/17 09:32	DFE	TAL PIT
Total/NA	Analysis	8082A		1			217035	07/14/17 16:28	JMO	TAL PIT
	Instrument ID: CHGC8									
Total/NA	Prep	3050B			1.05 g	100 mL	216920	07/13/17 09:05	CRM	TAL PIT
Total/NA	Analysis	6010C		1			217205	07/14/17 13:42	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.61 g	100 mL	217097	07/14/17 11:17	RJR	TAL PIT
Total/NA	Analysis	7471B		1			217252	07/17/17 09:27	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.04 g	50 mL	216972	07/13/17 12:02	JAS	TAL PIT
Total/NA	Analysis	9014		1			217087	07/13/17 16:10	JAS	TAL PIT
	Instrument ID: SEAL2									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68096-1

Client Sample ID: W2, S5 A 71117
Date Collected: 07/11/17 12:45
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-16
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216865	07/12/17 15:57	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W2, S5 A 71117
Date Collected: 07/11/17 12:45
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-16
Matrix: Solid
Percent Solids: 91.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2.5438 g	5 mL	216904	07/13/17 06:04	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	216893	07/13/17 16:10	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W2, S5 B 71117
Date Collected: 07/11/17 12:50
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216865	07/12/17 15:57	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W2, S5 B 71117
Date Collected: 07/11/17 12:50
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-17
Matrix: Solid
Percent Solids: 91.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.878 g	5 mL	216904	07/13/17 06:04	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	216893	07/13/17 16:33	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W2, S5 C 71117
Date Collected: 07/11/17 12:55
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-18
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216870	07/12/17 16:42	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W2, S5 C 71117
Date Collected: 07/11/17 12:55
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-18
Matrix: Solid
Percent Solids: 91.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.1 g	0.5 mL	216880	07/13/17 03:37	BAP	TAL PIT

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68096-1

Client Sample ID: W2, S5 C 71117
Date Collected: 07/11/17 12:55
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-18
Matrix: Solid
Percent Solids: 91.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8270D LL		5	1 mL	1 mL	216940	07/13/17 21:47	DLF	TAL PIT
	Instrument ID: CH71									
Total/NA	Prep	3541			15.4 g	20.0 mL	216879	07/13/17 03:34	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	216929	07/13/17 09:31	DFE	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	216930	07/13/17 09:32	DFE	TAL PIT
Total/NA	Analysis	8082A		1			217035	07/14/17 16:48	JMO	TAL PIT
	Instrument ID: CHGC8									
Total/NA	Prep	3050B			1.05 g	100 mL	216920	07/13/17 09:05	CRM	TAL PIT
Total/NA	Analysis	6010C		1			217205	07/14/17 13:48	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.59 g	100 mL	217097	07/14/17 11:17	RJR	TAL PIT
Total/NA	Analysis	7471B		1			217252	07/17/17 09:29	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.03 g	50 mL	216972	07/13/17 12:02	JAS	TAL PIT
Total/NA	Analysis	9014		1			217087	07/13/17 16:12	JAS	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: W3, S1 A 71117
Date Collected: 07/11/17 13:15
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-19
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216870	07/12/17 16:42	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W3, S1 A 71117
Date Collected: 07/11/17 13:15
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-19
Matrix: Solid
Percent Solids: 91.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.826 g	5 mL	217187	07/16/17 09:00	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	217186	07/16/17 11:57	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W3, S1 B 71117
Date Collected: 07/11/17 13:20
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-20
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216870	07/12/17 16:42	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68096-1

Client Sample ID: W3, S1 B 71117
Date Collected: 07/11/17 13:20
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-20
Matrix: Solid
Percent Solids: 90.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3.7059 g	5 mL	217187	07/16/17 09:00	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	217186	07/16/17 19:32	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: DUP-3
Date Collected: 07/11/17 00:00
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-21
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216870	07/12/17 16:42	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: DUP-3
Date Collected: 07/11/17 00:00
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-21
Matrix: Solid
Percent Solids: 91.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.3156 g	5 mL	217187	07/16/17 09:00	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	217186	07/16/17 12:43	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: DUP-4
Date Collected: 07/11/17 00:00
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-22
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216870	07/12/17 16:42	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: DUP-4
Date Collected: 07/11/17 00:00
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-22
Matrix: Solid
Percent Solids: 91.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.1 g	0.5 mL	216880	07/13/17 03:37	BAP	TAL PIT
Total/NA	Analysis	8270D LL		5	1 mL	1 mL	216940	07/13/17 22:15	DLF	TAL PIT
	Instrument ID: CH71									
Total/NA	Prep	3541			15.1 g	20.0 mL	216879	07/13/17 03:34	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	216929	07/13/17 09:31	DFE	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	216930	07/13/17 09:32	DFE	TAL PIT
Total/NA	Analysis	8082A		1			217035	07/14/17 17:08	JMO	TAL PIT
	Instrument ID: CHGC8									
Total/NA	Prep	3050B			1.09 g	100 mL	216920	07/13/17 09:05	CRM	TAL PIT

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68096-1

Client Sample ID: DUP-4

Date Collected: 07/11/17 00:00
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-22

Matrix: Solid
Percent Solids: 91.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	6010C		1			217205	07/14/17 13:53	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.63 g	100 mL	217097	07/14/17 11:17	RJR	TAL PIT
Total/NA	Analysis	7471B		1			217252	07/17/17 09:31	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.04 g	50 mL	216972	07/13/17 12:02	JAS	TAL PIT
Total/NA	Analysis	9014		1			217087	07/13/17 16:14	JAS	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: W3, S1, C 71117

Date Collected: 07/11/17 13:25
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-23

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216870	07/12/17 16:42	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W3, S1, C 71117

Date Collected: 07/11/17 13:25
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-23

Matrix: Solid
Percent Solids: 91.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.3 g	0.5 mL	216880	07/13/17 03:37	BAP	TAL PIT
Total/NA	Analysis	8270D LL		10	1 mL	1 mL	216940	07/13/17 22:42	DLF	TAL PIT
	Instrument ID: CH71									
Total/NA	Prep	3541			15.3 g	20.0 mL	216879	07/13/17 03:34	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	216929	07/13/17 09:31	DFE	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	216930	07/13/17 09:32	DFE	TAL PIT
Total/NA	Analysis	8082A		1			217035	07/14/17 17:28	JMO	TAL PIT
	Instrument ID: CHGC8									
Total/NA	Prep	3050B			0.96 g	100 mL	216920	07/13/17 09:05	CRM	TAL PIT
Total/NA	Analysis	6010C		1			217205	07/14/17 13:58	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.74 g	100 mL	217097	07/14/17 11:17	RJR	TAL PIT
Total/NA	Analysis	7471B		1			217252	07/17/17 09:33	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.03 g	50 mL	216972	07/13/17 12:02	JAS	TAL PIT
Total/NA	Analysis	9014		1			217087	07/13/17 16:15	JAS	TAL PIT
	Instrument ID: SEAL2									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68096-1

Client Sample ID: W3, S2, A 71117
Date Collected: 07/11/17 13:45
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-24
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216870	07/12/17 16:42	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W3, S2, A 71117
Date Collected: 07/11/17 13:45
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-24
Matrix: Solid
Percent Solids: 91.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.2608 g	5 mL	217187	07/16/17 09:00	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	217186	07/16/17 13:05	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W3, S2, B 71117
Date Collected: 07/11/17 13:50
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-25
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216870	07/12/17 16:42	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W3, S2, B 71117
Date Collected: 07/11/17 13:50
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-25
Matrix: Solid
Percent Solids: 92.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.4316 g	5 mL	217187	07/16/17 09:00	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	217186	07/16/17 13:28	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W3, S2, C 71117
Date Collected: 07/11/17 13:55
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-26
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216870	07/12/17 16:42	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W3, S2, C 71117
Date Collected: 07/11/17 13:55
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-26
Matrix: Solid
Percent Solids: 91.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.2 g	0.5 mL	216880	07/13/17 03:37	BAP	TAL PIT

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68096-1

Client Sample ID: W3, S2, C 71117

Lab Sample ID: 180-68096-26
Date Collected: 07/11/17 13:55
Matrix: Solid
Date Received: 07/12/17 09:10
Percent Solids: 91.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8270D LL		10	1 mL	1 mL	217242	07/17/17 11:48	DLF	TAL PIT
	Instrument ID: CH71									
Total/NA	Prep	3541			15.2 g	20.0 mL	216879	07/13/17 03:34	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	216929	07/13/17 09:31	DFE	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	216930	07/13/17 09:32	DFE	TAL PIT
Total/NA	Analysis	8082A		1			217035	07/14/17 17:49	JMO	TAL PIT
	Instrument ID: CHGC8									
Total/NA	Prep	3050B			1.01 g	100 mL	216920	07/13/17 09:05	CRM	TAL PIT
Total/NA	Analysis	6010C		1			217205	07/14/17 14:03	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.72 g	100 mL	217097	07/14/17 11:17	RJR	TAL PIT
Total/NA	Analysis	7471B		1			217252	07/17/17 09:35	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.03 g	50 mL	216972	07/13/17 12:02	JAS	TAL PIT
Total/NA	Analysis	9014		1			217087	07/13/17 16:17	JAS	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: W3, S3, A 71117

Lab Sample ID: 180-68096-27
Date Collected: 07/11/17 14:15
Matrix: Solid
Date Received: 07/12/17 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216870	07/12/17 16:42	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W3, S3, A 71117

Lab Sample ID: 180-68096-27
Date Collected: 07/11/17 14:15
Matrix: Solid
Date Received: 07/12/17 09:10
Percent Solids: 91.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.5406 g	5 mL	217187	07/16/17 09:00	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	217186	07/16/17 13:50	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W3, S3, B 71117

Lab Sample ID: 180-68096-28
Date Collected: 07/11/17 14:20
Matrix: Solid
Date Received: 07/12/17 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216870	07/12/17 16:42	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68096-1

Client Sample ID: W3, S3, B 71117
Date Collected: 07/11/17 14:20
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-28
Matrix: Solid
Percent Solids: 89.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.0785 g	5 mL	217187	07/16/17 09:00	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	217186	07/16/17 14:13	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W3, S3, C 71117
Date Collected: 07/11/17 14:25
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-29
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216870	07/12/17 16:42	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W3, S3, C 71117
Date Collected: 07/11/17 14:25
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-29
Matrix: Solid
Percent Solids: 90.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.1 g	0.5 mL	216880	07/13/17 03:37	BAP	TAL PIT
Total/NA	Analysis	8270D LL		10	1 mL	1 mL	217242	07/17/17 12:16	DLF	TAL PIT
	Instrument ID: CH71									
Total/NA	Prep	3541			15.2 g	20.0 mL	216879	07/13/17 03:34	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	216929	07/13/17 09:31	DFE	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	216930	07/13/17 09:32	DFE	TAL PIT
Total/NA	Analysis	8082A		1			217035	07/14/17 18:09	JMO	TAL PIT
	Instrument ID: CHGC8									
Total/NA	Prep	3050B			1.07 g	100 mL	216920	07/13/17 09:05	CRM	TAL PIT
Total/NA	Analysis	6010C		1			217205	07/14/17 14:08	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.59 g	100 mL	217097	07/14/17 11:17	RJR	TAL PIT
Total/NA	Analysis	7471B		1			217252	07/17/17 09:37	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.00 g	50 mL	216972	07/13/17 12:02	JAS	TAL PIT
Total/NA	Analysis	9014		1			217087	07/13/17 16:19	JAS	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: W3, S4, A 71117
Date Collected: 07/11/17 14:45
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-30
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216870	07/12/17 16:42	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68096-1

Client Sample ID: W3, S4, A 71117
Date Collected: 07/11/17 14:45
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-30
Matrix: Solid
Percent Solids: 90.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.4037 g	5 mL	217187	07/16/17 09:00	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	217186	07/16/17 19:55	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W3, S4, B 71117
Date Collected: 07/11/17 14:50
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-31
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216870	07/12/17 16:42	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W3, S4, B 71117
Date Collected: 07/11/17 14:50
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-31
Matrix: Solid
Percent Solids: 91.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.1767 g	5 mL	217187	07/16/17 09:00	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	217186	07/16/17 14:59	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W3, S4, C 71117
Date Collected: 07/11/17 14:55
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-32
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216870	07/12/17 16:42	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W3, S4, C 71117
Date Collected: 07/11/17 14:55
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-32
Matrix: Solid
Percent Solids: 90.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	0.5 mL	216880	07/13/17 03:37	BAP	TAL PIT
Total/NA	Analysis	8270D LL		10	1 mL	1 mL	217242	07/17/17 12:43	DLF	TAL PIT
	Instrument ID: CH71									
Total/NA	Prep	3541			15.3 g	20.0 mL	216879	07/13/17 03:34	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	216929	07/13/17 09:31	DFE	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	216930	07/13/17 09:32	DFE	TAL PIT
Total/NA	Analysis	8082A		1			217035	07/14/17 18:29	JMO	TAL PIT
	Instrument ID: CHGC8									
Total/NA	Prep	3050B			1.01 g	100 mL	216920	07/13/17 09:05	CRM	TAL PIT

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68096-1

Client Sample ID: W3, S4, C 71117

Lab Sample ID: 180-68096-32
Date Collected: 07/11/17 14:55
Matrix: Solid
Date Received: 07/12/17 09:10
Percent Solids: 90.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	6010C		1			217205	07/14/17 14:13	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.68 g	100 mL	217097	07/14/17 11:17	RJR	TAL PIT
Total/NA	Analysis	7471B		1			217252	07/17/17 09:39	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.02 g	50 mL	216972	07/13/17 12:02	JAS	TAL PIT
Total/NA	Analysis	9014		1			217087	07/13/17 16:21	JAS	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: DUP-5

Lab Sample ID: 180-68096-33
Date Collected: 07/11/17 00:00
Matrix: Solid
Date Received: 07/12/17 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216870	07/12/17 16:42	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: DUP-5

Lab Sample ID: 180-68096-33
Date Collected: 07/11/17 00:00
Matrix: Solid
Date Received: 07/12/17 09:10
Percent Solids: 90.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.4988 g	5 mL	217187	07/16/17 09:00	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	217186	07/16/17 15:22	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W3, S5, A 71117

Lab Sample ID: 180-68096-34
Date Collected: 07/11/17 15:15
Matrix: Solid
Date Received: 07/12/17 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216870	07/12/17 16:42	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W3, S5, A 71117

Lab Sample ID: 180-68096-34
Date Collected: 07/11/17 15:15
Matrix: Solid
Date Received: 07/12/17 09:10
Percent Solids: 91.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.3266 g	5 mL	217050	07/13/17 10:30	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	217056	07/14/17 17:23	KLG	TAL PIT
	Instrument ID: CHHP3									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68096-1

Client Sample ID: W3, S5, B 71117
Date Collected: 07/11/17 15:20
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-35
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216870	07/12/17 16:42	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W3, S5, B 71117
Date Collected: 07/11/17 15:20
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-35
Matrix: Solid
Percent Solids: 92.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.4192 g	5 mL	217050	07/13/17 10:30	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	217056	07/14/17 17:00	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W3, S5, C 71117
Date Collected: 07/11/17 15:25
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-36
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216870	07/12/17 16:42	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W3, S5, C 71117
Date Collected: 07/11/17 15:25
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-36
Matrix: Solid
Percent Solids: 92.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	0.5 mL	216880	07/13/17 03:37	BAP	TAL PIT
Total/NA	Analysis	8270D LL		10	1 mL	1 mL	217242	07/17/17 13:11	DLF	TAL PIT
	Instrument ID: CH71									
Total/NA	Prep	3541			15.4 g	20.0 mL	216879	07/13/17 03:34	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	216929	07/13/17 09:31	DFE	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	216930	07/13/17 09:32	DFE	TAL PIT
Total/NA	Analysis	8082A		1			217035	07/14/17 18:49	JMO	TAL PIT
	Instrument ID: CHGC8									
Total/NA	Prep	3050B			1.03 g	100 mL	216920	07/13/17 09:05	CRM	TAL PIT
Total/NA	Analysis	6010C		1			217205	07/14/17 14:19	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.61 g	100 mL	217097	07/14/17 11:17	RJR	TAL PIT
Total/NA	Analysis	7471B		1			217252	07/17/17 09:41	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.00 g	50 mL	216972	07/13/17 12:02	JAS	TAL PIT
Total/NA	Analysis	9014		1			217087	07/13/17 16:22	JAS	TAL PIT
	Instrument ID: SEAL2									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68096-1

Client Sample ID: TRIP BLANK 1

Lab Sample ID: 180-68096-37
Matrix: Water
Date Collected: 07/11/17 00:00
Date Received: 07/12/17 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	217200	07/17/17 08:58	FBB	TAL PIT
	Instrument ID: CHHP5									

Client Sample ID: TRIP BLANK 2

Lab Sample ID: 180-68096-38
Matrix: Water
Date Collected: 07/11/17 00:00
Date Received: 07/12/17 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	217200	07/17/17 09:21	FBB	TAL PIT
	Instrument ID: CHHP5									

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Analyst References:

Lab: TAL PIT

Batch Type: Cleanup

DFE = David Eppinger

Batch Type: Prep

BAP = Brian Pino

CRM = Caitlin McEvoy

JAS = Joshua Schmidt

KLG = Kathy Gordon

RJR = Ron Rosenbaum

Batch Type: Analysis

DLF = Donald Ferguson

FBB = Frank Bungard

JAS = Joshua Schmidt

JMO = John Oravec

JTL = Justin Landry

KLG = Kathy Gordon

RJG = Rob Good

RJR = Ron Rosenbaum

Client Sample ID: W1, S5, A 71117

Lab Sample ID: 180-68096-1

Date Collected: 07/11/17 10:15
Matrix: Solid
Date Received: 07/12/17 09:10
Percent Solids: 89.2

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.021	0.0034	mg/Kg	☼	07/13/17 06:04	07/13/17 12:46	1
Benzene	ND		0.0053	0.0021	mg/Kg	☼	07/13/17 06:04	07/13/17 12:46	1
2-Butanone (MEK)	ND		0.0053	0.0031	mg/Kg	☼	07/13/17 06:04	07/13/17 12:46	1
Carbon tetrachloride	ND		0.0053	0.0035	mg/Kg	☼	07/13/17 06:04	07/13/17 12:46	1
Chlorobenzene	ND		0.0053	0.0017	mg/Kg	☼	07/13/17 06:04	07/13/17 12:46	1
Chloroform	ND		0.0053	0.0023	mg/Kg	☼	07/13/17 06:04	07/13/17 12:46	1
cis-1,2-Dichloroethene	ND		0.0053	0.0017	mg/Kg	☼	07/13/17 06:04	07/13/17 12:46	1
1,2-Dichlorobenzene	ND		0.0053	0.0043	mg/Kg	☼	07/13/17 06:04	07/13/17 12:46	1
1,3-Dichlorobenzene	ND		0.0053	0.0017	mg/Kg	☼	07/13/17 06:04	07/13/17 12:46	1
1,4-Dichlorobenzene	ND		0.0053	0.0011	mg/Kg	☼	07/13/17 06:04	07/13/17 12:46	1
1,1-Dichloroethane	ND		0.0053	0.0019	mg/Kg	☼	07/13/17 06:04	07/13/17 12:46	1
1,2-Dichloroethane	ND		0.0053	0.0016	mg/Kg	☼	07/13/17 06:04	07/13/17 12:46	1
1,1-Dichloroethene	ND		0.0053	0.0030	mg/Kg	☼	07/13/17 06:04	07/13/17 12:46	1
Ethylbenzene	ND		0.0053	0.0023	mg/Kg	☼	07/13/17 06:04	07/13/17 12:46	1
Methylene Chloride	ND		0.0053	0.0025	mg/Kg	☼	07/13/17 06:04	07/13/17 12:46	1
Methyl tert-butyl ether	ND		0.0053	0.0039	mg/Kg	☼	07/13/17 06:04	07/13/17 12:46	1
n-Butylbenzene	ND		0.0053	0.0040	mg/Kg	☼	07/13/17 06:04	07/13/17 12:46	1
N-Propylbenzene	ND		0.0053	0.0023	mg/Kg	☼	07/13/17 06:04	07/13/17 12:46	1
sec-Butylbenzene	ND		0.0053	0.0026	mg/Kg	☼	07/13/17 06:04	07/13/17 12:46	1
tert-Butylbenzene	ND		0.0053	0.0020	mg/Kg	☼	07/13/17 06:04	07/13/17 12:46	1
Tetrachloroethene	ND		0.0053	0.0021	mg/Kg	☼	07/13/17 06:04	07/13/17 12:46	1
Toluene	ND		0.0053	0.0018	mg/Kg	☼	07/13/17 06:04	07/13/17 12:46	1
trans-1,2-Dichloroethene	ND		0.0053	0.0027	mg/Kg	☼	07/13/17 06:04	07/13/17 12:46	1
1,1,1-Trichloroethane	ND		0.0053	0.0027	mg/Kg	☼	07/13/17 06:04	07/13/17 12:46	1
Trichloroethene	ND		0.0053	0.0016	mg/Kg	☼	07/13/17 06:04	07/13/17 12:46	1
1,2,4-Trimethylbenzene	ND		0.0053	0.0014	mg/Kg	☼	07/13/17 06:04	07/13/17 12:46	1
1,3,5-Trimethylbenzene	ND		0.0053	0.0018	mg/Kg	☼	07/13/17 06:04	07/13/17 12:46	1
Vinyl chloride	ND		0.0053	0.0039	mg/Kg	☼	07/13/17 06:04	07/13/17 12:46	1
Xylenes, Total	ND		0.011	0.0046	mg/Kg	☼	07/13/17 06:04	07/13/17 12:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*63 - 120*	*07/13/17 06:04*	*07/13/17 12:46*	*1*
Dibromofluoromethane (Surr)	*86*		*68 - 121*	*07/13/17 06:04*	*07/13/17 12:46*	*1*
1,2-Dichloroethane-d4 (Surr)	*81*		*52 - 124*	*07/13/17 06:04*	*07/13/17 12:46*	*1*
Toluene-d8 (Surr)	*104*		*72 - 127*	*07/13/17 06:04*	*07/13/17 12:46*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**10.7**		0.1	0.1	%			07/12/17 15:57	1
Percent Solids	**89.3**		0.1	0.1	%			07/12/17 15:57	1

Client Sample ID: W1, S5, B 71117

Lab Sample ID: 180-68096-2

Date Collected: 07/11/17 10:20
Matrix: Solid
Date Received: 07/12/17 09:10
Percent Solids: 89.7

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.018	0.0028	mg/Kg	☼	07/13/17 06:04	07/13/17 13:08	1
Benzene	ND		0.0044	0.0017	mg/Kg	☼	07/13/17 06:04	07/13/17 13:08	1
2-Butanone (MEK)	ND		0.0044	0.0026	mg/Kg	☼	07/13/17 06:04	07/13/17 13:08	1

Client Sample ID: W1, S5, B 71117 — Lab Sample ID: 180-68096-2

Date Collected: 07/11/17 10:20 — **Matrix: Solid**
Date Received: 07/12/17 09:10 — **Percent Solids: 89.7**

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	ND		0.0044	0.0029	mg/Kg	☼	07/13/17 06:04	07/13/17 13:08	1
Chlorobenzene	ND		0.0044	0.0014	mg/Kg	☼	07/13/17 06:04	07/13/17 13:08	1
Chloroform	ND		0.0044	0.0019	mg/Kg	☼	07/13/17 06:04	07/13/17 13:08	1
cis-1,2-Dichloroethene	ND		0.0044	0.0014	mg/Kg	☼	07/13/17 06:04	07/13/17 13:08	1
1,2-Dichlorobenzene	ND		0.0044	0.0036	mg/Kg	☼	07/13/17 06:04	07/13/17 13:08	1
1,3-Dichlorobenzene	ND		0.0044	0.0014	mg/Kg	☼	07/13/17 06:04	07/13/17 13:08	1
1,4-Dichlorobenzene	ND		0.0044	0.00090	mg/Kg	☼	07/13/17 06:04	07/13/17 13:08	1
1,1-Dichloroethane	ND		0.0044	0.0016	mg/Kg	☼	07/13/17 06:04	07/13/17 13:08	1
1,2-Dichloroethane	ND		0.0044	0.0013	mg/Kg	☼	07/13/17 06:04	07/13/17 13:08	1
1,1-Dichloroethene	ND		0.0044	0.0025	mg/Kg	☼	07/13/17 06:04	07/13/17 13:08	1
Ethylbenzene	ND		0.0044	0.0019	mg/Kg	☼	07/13/17 06:04	07/13/17 13:08	1
Methylene Chloride	ND		0.0044	0.0021	mg/Kg	☼	07/13/17 06:04	07/13/17 13:08	1
Methyl tert-butyl ether	ND		0.0044	0.0033	mg/Kg	☼	07/13/17 06:04	07/13/17 13:08	1
n-Butylbenzene	ND		0.0044	0.0034	mg/Kg	☼	07/13/17 06:04	07/13/17 13:08	1
N-Propylbenzene	ND		0.0044	0.0019	mg/Kg	☼	07/13/17 06:04	07/13/17 13:08	1
sec-Butylbenzene	ND		0.0044	0.0022	mg/Kg	☼	07/13/17 06:04	07/13/17 13:08	1
tert-Butylbenzene	ND		0.0044	0.0016	mg/Kg	☼	07/13/17 06:04	07/13/17 13:08	1
Tetrachloroethene	ND		0.0044	0.0018	mg/Kg	☼	07/13/17 06:04	07/13/17 13:08	1
Toluene	ND		0.0044	0.0015	mg/Kg	☼	07/13/17 06:04	07/13/17 13:08	1
trans-1,2-Dichloroethene	ND		0.0044	0.0022	mg/Kg	☼	07/13/17 06:04	07/13/17 13:08	1
1,1,1-Trichloroethane	ND		0.0044	0.0022	mg/Kg	☼	07/13/17 06:04	07/13/17 13:08	1
Trichloroethene	ND		0.0044	0.0013	mg/Kg	☼	07/13/17 06:04	07/13/17 13:08	1
1,2,4-Trimethylbenzene	ND		0.0044	0.0012	mg/Kg	☼	07/13/17 06:04	07/13/17 13:08	1
1,3,5-Trimethylbenzene	ND		0.0044	0.0015	mg/Kg	☼	07/13/17 06:04	07/13/17 13:08	1
Vinyl chloride	ND		0.0044	0.0033	mg/Kg	☼	07/13/17 06:04	07/13/17 13:08	1
Xylenes, Total	ND		0.0089	0.0038	mg/Kg	☼	07/13/17 06:04	07/13/17 13:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*63 - 120*	*07/13/17 06:04*	*07/13/17 13:08*	*1*
Dibromofluoromethane (Surr)	*85*		*68 - 121*	*07/13/17 06:04*	*07/13/17 13:08*	*1*
1,2-Dichloroethane-d4 (Surr)	*79*		*52 - 124*	*07/13/17 06:04*	*07/13/17 13:08*	*1*
Toluene-d8 (Surr)	*105*		*72 - 127*	*07/13/17 06:04*	*07/13/17 13:08*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**10.3**		0.1	0.1	%			07/12/17 15:57	1
Percent Solids	**89.7**		0.1	0.1	%			07/12/17 15:57	1

Client Sample ID: W1, S5, C 71117 — Lab Sample ID: 180-68096-3

Date Collected: 07/11/17 10:25 — **Matrix: Solid**
Date Received: 07/12/17 09:10 — **Percent Solids: 90.8**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.073	0.025	mg/Kg	☼	07/13/17 03:37	07/13/17 19:58	10
Acenaphthylene	**0.099**		0.073	0.025	mg/Kg	☼	07/13/17 03:37	07/13/17 19:58	10
Anthracene	**0.11**		0.073	0.027	mg/Kg	☼	07/13/17 03:37	07/13/17 19:58	10
Benzo[a]anthracene	**0.45**		0.073	0.029	mg/Kg	☼	07/13/17 03:37	07/13/17 19:58	10
Benzo[a]pyrene	**0.45**		0.073	0.030	mg/Kg	☼	07/13/17 03:37	07/13/17 19:58	10
Benzo[b]fluoranthene	**0.57**		0.073	0.032	mg/Kg	☼	07/13/17 03:37	07/13/17 19:58	10

Client Sample ID: W1, S5, C 71117 **Lab Sample ID: 180-68096-3**
Date Collected: 07/11/17 10:25 **Matrix: Solid**
Date Received: 07/12/17 09:10 **Percent Solids: 90.8**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	**0.47**		0.073	0.032	mg/Kg	☼	07/13/17 03:37	07/13/17 19:58	10
Benzo[k]fluoranthene	**0.15**		0.073	0.025	mg/Kg	☼	07/13/17 03:37	07/13/17 19:58	10
Chrysene	**0.38**		0.073	0.028	mg/Kg	☼	07/13/17 03:37	07/13/17 19:58	10
Dibenz(a,h)anthracene	**0.11**		0.073	0.030	mg/Kg	☼	07/13/17 03:37	07/13/17 19:58	10
Dibenzofuran	**0.040**	**J**	0.36	0.029	mg/Kg	☼	07/13/17 03:37	07/13/17 19:58	10
1,4-Dioxane	ND		0.73	0.055	mg/Kg	☼	07/13/17 03:37	07/13/17 19:58	10
Fluoranthene	**0.72**		0.073	0.029	mg/Kg	☼	07/13/17 03:37	07/13/17 19:58	10
Fluorene	ND		0.073	0.026	mg/Kg	☼	07/13/17 03:37	07/13/17 19:58	10
Hexachlorobenzene	ND		0.073	0.029	mg/Kg	☼	07/13/17 03:37	07/13/17 19:58	10
Indeno[1,2,3-cd]pyrene	**0.40**		0.073	0.028	mg/Kg	☼	07/13/17 03:37	07/13/17 19:58	10
2-Methylphenol	ND		0.36	0.032	mg/Kg	☼	07/13/17 03:37	07/13/17 19:58	10
Methylphenol, 3 & 4	ND		0.36	0.032	mg/Kg	☼	07/13/17 03:37	07/13/17 19:58	10
Naphthalene	**0.12**		0.073	0.026	mg/Kg	☼	07/13/17 03:37	07/13/17 19:58	10
Pentachlorophenol	ND		1.9	0.69	mg/Kg	☼	07/13/17 03:37	07/13/17 19:58	10
Phenanthrene	**0.36**		0.073	0.030	mg/Kg	☼	07/13/17 03:37	07/13/17 19:58	10
Phenol	ND		0.36	0.049	mg/Kg	☼	07/13/17 03:37	07/13/17 19:58	10
Pyrene	**0.72**		0.073	0.032	mg/Kg	☼	07/13/17 03:37	07/13/17 19:58	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*49*		*42 - 100*	*07/13/17 03:37*	*07/13/17 19:58*	*10*
2-Fluorophenol (Surr)	*48*		*21 - 107*	*07/13/17 03:37*	*07/13/17 19:58*	*10*
Nitrobenzene-d5 (Surr)	*54*		*35 - 109*	*07/13/17 03:37*	*07/13/17 19:58*	*10*
Phenol-d5 (Surr)	*42*		*29 - 105*	*07/13/17 03:37*	*07/13/17 19:58*	*10*
Terphenyl-d14 (Surr)	*54*		*36 - 113*	*07/13/17 03:37*	*07/13/17 19:58*	*10*
2,4,6-Tribromophenol (Surr)	*40*		*20 - 134*	*07/13/17 03:37*	*07/13/17 19:58*	*10*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.018	0.0095	mg/Kg	☼	07/13/17 03:34	07/14/17 13:47	1
PCB-1221	ND		0.018	0.0093	mg/Kg	☼	07/13/17 03:34	07/14/17 13:47	1
PCB-1232	ND		0.018	0.0071	mg/Kg	☼	07/13/17 03:34	07/14/17 13:47	1
PCB-1242	ND		0.018	0.014	mg/Kg	☼	07/13/17 03:34	07/14/17 13:47	1
PCB-1248	**0.63**		0.018	0.0086	mg/Kg	☼	07/13/17 03:34	07/14/17 13:47	1
PCB-1254	**0.45**		0.018	0.0079	mg/Kg	☼	07/13/17 03:34	07/14/17 13:47	1
PCB-1260	**0.15**		0.018	0.012	mg/Kg	☼	07/13/17 03:34	07/14/17 13:47	1
PCB-1262	ND		0.018	0.013	mg/Kg	☼	07/13/17 03:34	07/14/17 13:47	1
PCB-1268	ND		0.018	0.0055	mg/Kg	☼	07/13/17 03:34	07/14/17 13:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*76*		*23 - 150*	*07/13/17 03:34*	*07/14/17 13:47*	*1*
DCB Decachlorobiphenyl (Surr)	*85*		*23 - 150*	*07/13/17 03:34*	*07/14/17 13:47*	*1*
Tetrachloro-m-xylene (Surr)	*82*		*27 - 138*	*07/13/17 03:34*	*07/14/17 13:47*	*1*
Tetrachloro-m-xylene (Surr)	*73*		*27 - 138*	*07/13/17 03:34*	*07/14/17 13:47*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**5.8**		1.1	0.49	mg/Kg	☼	07/13/17 09:05	07/14/17 12:51	1
Barium	**65**		22	6.0	mg/Kg	☼	07/13/17 09:05	07/14/17 12:51	1
Beryllium	**0.30**	**J**	0.44	0.12	mg/Kg	☼	07/13/17 09:05	07/14/17 12:51	1
Cadmium	**0.16**	**J**	0.56	0.12	mg/Kg	☼	07/13/17 09:05	07/14/17 12:51	1

Client Sample ID: W1, S5, C 71117

Lab Sample ID: 180-68096-3
Date Collected: 07/11/17 10:25
Matrix: Solid
Date Received: 07/12/17 09:10
Percent Solids: 90.8

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	**8.0**		0.56	0.14	mg/Kg	☼	07/13/17 09:05	07/14/17 12:51	1
Copper	**45**		2.8	0.86	mg/Kg	☼	07/13/17 09:05	07/14/17 12:51	1
Lead	**38**		1.1	0.37	mg/Kg	☼	07/13/17 09:05	07/14/17 12:51	1
Manganese	**350**		1.7	0.45	mg/Kg	☼	07/13/17 09:05	07/14/17 12:51	1
Nickel	**14**		4.4	1.0	mg/Kg	☼	07/13/17 09:05	07/14/17 12:51	1
Selenium	ND		1.1	0.44	mg/Kg	☼	07/13/17 09:05	07/14/17 12:51	1
Silver	ND		0.56	0.18	mg/Kg	☼	07/13/17 09:05	07/14/17 12:51	1
Zinc	**72**		2.2	1.1	mg/Kg	☼	07/13/17 09:05	07/14/17 12:51	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.29**		0.036	0.0080	mg/Kg	☼	07/14/17 11:17	07/17/17 09:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.2**		0.1	0.1	%			07/12/17 15:57	1
Percent Solids	**90.8**		0.1	0.1	%			07/12/17 15:57	1
Cyanide, Total	ND		0.54	0.17	mg/Kg	☼	07/13/17 12:02	07/13/17 15:56	1

Client Sample ID: W2, S1, A 71117

Lab Sample ID: 180-68096-4
Date Collected: 07/11/17 10:45
Matrix: Solid
Date Received: 07/12/17 09:10
Percent Solids: 90.4

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.021	0.0033	mg/Kg	☼	07/13/17 06:04	07/13/17 09:22	1
Benzene	ND		0.0052	0.0020	mg/Kg	☼	07/13/17 06:04	07/13/17 09:22	1
2-Butanone (MEK)	ND		0.0052	0.0030	mg/Kg	☼	07/13/17 06:04	07/13/17 09:22	1
Carbon tetrachloride	ND		0.0052	0.0034	mg/Kg	☼	07/13/17 06:04	07/13/17 09:22	1
Chlorobenzene	ND		0.0052	0.0016	mg/Kg	☼	07/13/17 06:04	07/13/17 09:22	1
Chloroform	ND		0.0052	0.0022	mg/Kg	☼	07/13/17 06:04	07/13/17 09:22	1
cis-1,2-Dichloroethene	ND		0.0052	0.0016	mg/Kg	☼	07/13/17 06:04	07/13/17 09:22	1
1,2-Dichlorobenzene	ND		0.0052	0.0042	mg/Kg	☼	07/13/17 06:04	07/13/17 09:22	1
1,3-Dichlorobenzene	ND		0.0052	0.0017	mg/Kg	☼	07/13/17 06:04	07/13/17 09:22	1
1,4-Dichlorobenzene	ND		0.0052	0.0011	mg/Kg	☼	07/13/17 06:04	07/13/17 09:22	1
1,1-Dichloroethane	ND		0.0052	0.0019	mg/Kg	☼	07/13/17 06:04	07/13/17 09:22	1
1,2-Dichloroethane	ND		0.0052	0.0015	mg/Kg	☼	07/13/17 06:04	07/13/17 09:22	1
1,1-Dichloroethene	ND		0.0052	0.0030	mg/Kg	☼	07/13/17 06:04	07/13/17 09:22	1
Ethylbenzene	ND		0.0052	0.0022	mg/Kg	☼	07/13/17 06:04	07/13/17 09:22	1
Methylene Chloride	ND		0.0052	0.0024	mg/Kg	☼	07/13/17 06:04	07/13/17 09:22	1
Methyl tert-butyl ether	ND		0.0052	0.0038	mg/Kg	☼	07/13/17 06:04	07/13/17 09:22	1
n-Butylbenzene	ND		0.0052	0.0039	mg/Kg	☼	07/13/17 06:04	07/13/17 09:22	1
N-Propylbenzene	ND		0.0052	0.0022	mg/Kg	☼	07/13/17 06:04	07/13/17 09:22	1
sec-Butylbenzene	ND		0.0052	0.0025	mg/Kg	☼	07/13/17 06:04	07/13/17 09:22	1
tert-Butylbenzene	ND		0.0052	0.0019	mg/Kg	☼	07/13/17 06:04	07/13/17 09:22	1
Tetrachloroethene	ND		0.0052	0.0021	mg/Kg	☼	07/13/17 06:04	07/13/17 09:22	1
Toluene	ND		0.0052	0.0017	mg/Kg	☼	07/13/17 06:04	07/13/17 09:22	1
trans-1,2-Dichloroethene	ND		0.0052	0.0026	mg/Kg	☼	07/13/17 06:04	07/13/17 09:22	1
1,1,1-Trichloroethane	ND		0.0052	0.0026	mg/Kg	☼	07/13/17 06:04	07/13/17 09:22	1
Trichloroethene	ND		0.0052	0.0016	mg/Kg	☼	07/13/17 06:04	07/13/17 09:22	1

Client Sample ID: W2, S1, A 71117

Lab Sample ID: 180-68096-4
Date Collected: 07/11/17 10:45
Matrix: Solid
Date Received: 07/12/17 09:10
Percent Solids: 90.4

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	ND		0.0052	0.0014	mg/Kg	☼	07/13/17 06:04	07/13/17 09:22	1
1,3,5-Trimethylbenzene	ND		0.0052	0.0018	mg/Kg	☼	07/13/17 06:04	07/13/17 09:22	1
Vinyl chloride	ND		0.0052	0.0038	mg/Kg	☼	07/13/17 06:04	07/13/17 09:22	1
Xylenes, Total	ND		0.010	0.0045	mg/Kg	☼	07/13/17 06:04	07/13/17 09:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*63 - 120*	*07/13/17 06:04*	*07/13/17 09:22*	*1*
Dibromofluoromethane (Surr)	*91*		*68 - 121*	*07/13/17 06:04*	*07/13/17 09:22*	*1*
1,2-Dichloroethane-d4 (Surr)	*84*		*52 - 124*	*07/13/17 06:04*	*07/13/17 09:22*	*1*
Toluene-d8 (Surr)	*113*		*72 - 127*	*07/13/17 06:04*	*07/13/17 09:22*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.6**		0.1	0.1	%			07/12/17 15:57	1
Percent Solids	**90.4**		0.1	0.1	%			07/12/17 15:57	1

Client Sample ID: W2, S1, B 71117

Lab Sample ID: 180-68096-5
Date Collected: 07/11/17 10:50
Matrix: Solid
Date Received: 07/12/17 09:10
Percent Solids: 91.9

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.018	0.0028	mg/Kg	☼	07/13/17 06:04	07/13/17 13:31	1
Benzene	ND		0.0044	0.0017	mg/Kg	☼	07/13/17 06:04	07/13/17 13:31	1
2-Butanone (MEK)	ND		0.0044	0.0026	mg/Kg	☼	07/13/17 06:04	07/13/17 13:31	1
Carbon tetrachloride	ND		0.0044	0.0029	mg/Kg	☼	07/13/17 06:04	07/13/17 13:31	1
Chlorobenzene	ND		0.0044	0.0014	mg/Kg	☼	07/13/17 06:04	07/13/17 13:31	1
Chloroform	ND		0.0044	0.0019	mg/Kg	☼	07/13/17 06:04	07/13/17 13:31	1
cis-1,2-Dichloroethene	ND		0.0044	0.0014	mg/Kg	☼	07/13/17 06:04	07/13/17 13:31	1
1,2-Dichlorobenzene	ND		0.0044	0.0035	mg/Kg	☼	07/13/17 06:04	07/13/17 13:31	1
1,3-Dichlorobenzene	ND		0.0044	0.0014	mg/Kg	☼	07/13/17 06:04	07/13/17 13:31	1
1,4-Dichlorobenzene	ND		0.0044	0.00090	mg/Kg	☼	07/13/17 06:04	07/13/17 13:31	1
1,1-Dichloroethane	ND		0.0044	0.0016	mg/Kg	☼	07/13/17 06:04	07/13/17 13:31	1
1,2-Dichloroethane	ND		0.0044	0.0013	mg/Kg	☼	07/13/17 06:04	07/13/17 13:31	1
1,1-Dichloroethene	ND		0.0044	0.0025	mg/Kg	☼	07/13/17 06:04	07/13/17 13:31	1
Ethylbenzene	ND		0.0044	0.0019	mg/Kg	☼	07/13/17 06:04	07/13/17 13:31	1
Methylene Chloride	ND		0.0044	0.0021	mg/Kg	☼	07/13/17 06:04	07/13/17 13:31	1
Methyl tert-butyl ether	ND		0.0044	0.0032	mg/Kg	☼	07/13/17 06:04	07/13/17 13:31	1
n-Butylbenzene	ND		0.0044	0.0033	mg/Kg	☼	07/13/17 06:04	07/13/17 13:31	1
N-Propylbenzene	ND		0.0044	0.0019	mg/Kg	☼	07/13/17 06:04	07/13/17 13:31	1
sec-Butylbenzene	ND		0.0044	0.0021	mg/Kg	☼	07/13/17 06:04	07/13/17 13:31	1
tert-Butylbenzene	ND		0.0044	0.0016	mg/Kg	☼	07/13/17 06:04	07/13/17 13:31	1
Tetrachloroethene	ND		0.0044	0.0018	mg/Kg	☼	07/13/17 06:04	07/13/17 13:31	1
Toluene	ND		0.0044	0.0015	mg/Kg	☼	07/13/17 06:04	07/13/17 13:31	1
trans-1,2-Dichloroethene	ND		0.0044	0.0022	mg/Kg	☼	07/13/17 06:04	07/13/17 13:31	1
1,1,1-Trichloroethane	ND		0.0044	0.0022	mg/Kg	☼	07/13/17 06:04	07/13/17 13:31	1
Trichloroethene	ND		0.0044	0.0013	mg/Kg	☼	07/13/17 06:04	07/13/17 13:31	1
1,2,4-Trimethylbenzene	ND		0.0044	0.0012	mg/Kg	☼	07/13/17 06:04	07/13/17 13:31	1
1,3,5-Trimethylbenzene	ND		0.0044	0.0015	mg/Kg	☼	07/13/17 06:04	07/13/17 13:31	1
Vinyl chloride	ND		0.0044	0.0032	mg/Kg	☼	07/13/17 06:04	07/13/17 13:31	1

Client Sample ID: W2, S1, B 71117

Lab Sample ID: 180-68096-5
Date Collected: 07/11/17 10:50
Matrix: Solid
Date Received: 07/12/17 09:10
Percent Solids: 91.9

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	ND		0.0088	0.0038	mg/Kg	☼	07/13/17 06:04	07/13/17 13:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*63 - 120*	*07/13/17 06:04*	*07/13/17 13:31*	*1*
Dibromofluoromethane (Surr)	*89*		*68 - 121*	*07/13/17 06:04*	*07/13/17 13:31*	*1*
1,2-Dichloroethane-d4 (Surr)	*83*		*52 - 124*	*07/13/17 06:04*	*07/13/17 13:31*	*1*
Toluene-d8 (Surr)	*110*		*72 - 127*	*07/13/17 06:04*	*07/13/17 13:31*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**8.1**		0.1	0.1	%			07/12/17 15:57	1
Percent Solids	**91.9**		0.1	0.1	%			07/12/17 15:57	1

Client Sample ID: W2, S1, C 71117

Lab Sample ID: 180-68096-6
Date Collected: 07/11/17 10:55
Matrix: Solid
Date Received: 07/12/17 09:10
Percent Solids: 89.8

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.14	0.048	mg/Kg	☼	07/13/17 03:37	07/13/17 18:37	20
Acenaphthylene	**0.12**	**J F2**	0.14	0.049	mg/Kg	☼	07/13/17 03:37	07/13/17 18:37	20
Anthracene	**0.15**	**F2**	0.14	0.053	mg/Kg	☼	07/13/17 03:37	07/13/17 18:37	20
Benzo[a]anthracene	**0.59**	**F2 F1**	0.14	0.057	mg/Kg	☼	07/13/17 03:37	07/13/17 18:37	20
Benzo[a]pyrene	**0.61**	**F2 F1**	0.14	0.060	mg/Kg	☼	07/13/17 03:37	07/13/17 18:37	20
Benzo[b]fluoranthene	**0.78**	**F2 F1**	0.14	0.062	mg/Kg	☼	07/13/17 03:37	07/13/17 18:37	20
Benzo[g,h,i]perylene	**0.55**	**F2 F1**	0.14	0.062	mg/Kg	☼	07/13/17 03:37	07/13/17 18:37	20
Benzo[k]fluoranthene	**0.21**	**F2 F1**	0.14	0.050	mg/Kg	☼	07/13/17 03:37	07/13/17 18:37	20
Chrysene	**0.62**	**F2**	0.14	0.056	mg/Kg	☼	07/13/17 03:37	07/13/17 18:37	20
Dibenz(a,h)anthracene	**0.12**	**J**	0.14	0.060	mg/Kg	☼	07/13/17 03:37	07/13/17 18:37	20
Dibenzofuran	ND		0.71	0.058	mg/Kg	☼	07/13/17 03:37	07/13/17 18:37	20
1,4-Dioxane	ND	F2	1.4	0.11	mg/Kg	☼	07/13/17 03:37	07/13/17 18:37	20
Fluoranthene	**0.93**	**F2 F1**	0.14	0.057	mg/Kg	☼	07/13/17 03:37	07/13/17 18:37	20
Fluorene	ND	F2	0.14	0.051	mg/Kg	☼	07/13/17 03:37	07/13/17 18:37	20
Hexachlorobenzene	ND		0.14	0.058	mg/Kg	☼	07/13/17 03:37	07/13/17 18:37	20
Indeno[1,2,3-cd]pyrene	**0.50**	**F2 F1**	0.14	0.056	mg/Kg	☼	07/13/17 03:37	07/13/17 18:37	20
2-Methylphenol	ND		0.71	0.063	mg/Kg	☼	07/13/17 03:37	07/13/17 18:37	20
Methylphenol, 3 & 4	ND		0.71	0.064	mg/Kg	☼	07/13/17 03:37	07/13/17 18:37	20
Naphthalene	**0.16**		0.14	0.052	mg/Kg	☼	07/13/17 03:37	07/13/17 18:37	20
Pentachlorophenol	ND	F1	3.7	1.4	mg/Kg	☼	07/13/17 03:37	07/13/17 18:37	20
Phenanthrene	**0.43**	**F2 F1**	0.14	0.060	mg/Kg	☼	07/13/17 03:37	07/13/17 18:37	20
Phenol	ND		0.71	0.097	mg/Kg	☼	07/13/17 03:37	07/13/17 18:37	20
Pyrene	**0.92**	**F2 F1**	0.14	0.064	mg/Kg	☼	07/13/17 03:37	07/13/17 18:37	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*70*		*42 - 100*	*07/13/17 03:37*	*07/13/17 18:37*	*20*
2-Fluorophenol (Surr)	*61*		*21 - 107*	*07/13/17 03:37*	*07/13/17 18:37*	*20*
Nitrobenzene-d5 (Surr)	*75*		*35 - 109*	*07/13/17 03:37*	*07/13/17 18:37*	*20*
Phenol-d5 (Surr)	*61*		*29 - 105*	*07/13/17 03:37*	*07/13/17 18:37*	*20*
Terphenyl-d14 (Surr)	*87*		*36 - 113*	*07/13/17 03:37*	*07/13/17 18:37*	*20*
2,4,6-Tribromophenol (Surr)	*47*		*20 - 134*	*07/13/17 03:37*	*07/13/17 18:37*	*20*

Client Sample ID: W2, S1, C 71117 — Lab Sample ID: 180-68096-6

Date Collected: 07/11/17 10:55 — **Matrix: Solid**
Date Received: 07/12/17 09:10 — **Percent Solids: 89.8**

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.018	0.0098	mg/Kg	☼	07/13/17 03:34	07/14/17 14:07	1
PCB-1221	ND		0.018	0.0095	mg/Kg	☼	07/13/17 03:34	07/14/17 14:07	1
PCB-1232	ND		0.018	0.0073	mg/Kg	☼	07/13/17 03:34	07/14/17 14:07	1
PCB-1242	ND		0.018	0.015	mg/Kg	☼	07/13/17 03:34	07/14/17 14:07	1
PCB-1248	**0.84**		0.018	0.0088	mg/Kg	☼	07/13/17 03:34	07/14/17 14:07	1
PCB-1254	**0.64**		0.018	0.0081	mg/Kg	☼	07/13/17 03:34	07/14/17 14:07	1
PCB-1260	**0.19**		0.018	0.012	mg/Kg	☼	07/13/17 03:34	07/14/17 14:07	1
PCB-1262	ND		0.018	0.013	mg/Kg	☼	07/13/17 03:34	07/14/17 14:07	1
PCB-1268	ND		0.018	0.0056	mg/Kg	☼	07/13/17 03:34	07/14/17 14:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*81*		*23 - 150*	*07/13/17 03:34*	*07/14/17 14:07*	*1*
DCB Decachlorobiphenyl (Surr)	*90*		*23 - 150*	*07/13/17 03:34*	*07/14/17 14:07*	*1*
Tetrachloro-m-xylene (Surr)	*90*		*27 - 138*	*07/13/17 03:34*	*07/14/17 14:07*	*1*
Tetrachloro-m-xylene (Surr)	*79*		*27 - 138*	*07/13/17 03:34*	*07/14/17 14:07*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**6.6**		1.1	0.49	mg/Kg	☼	07/13/17 09:05	07/14/17 12:57	1
Barium	**84**		22	5.9	mg/Kg	☼	07/13/17 09:05	07/14/17 12:57	1
Beryllium	**0.35**	**J**	0.44	0.12	mg/Kg	☼	07/13/17 09:05	07/14/17 12:57	1
Cadmium	**0.24**	**J**	0.55	0.12	mg/Kg	☼	07/13/17 09:05	07/14/17 12:57	1
Chromium	**10**		0.55	0.14	mg/Kg	☼	07/13/17 09:05	07/14/17 12:57	1
Copper	**26**	**F1**	2.8	0.85	mg/Kg	☼	07/13/17 09:05	07/14/17 12:57	1
Lead	**33**		1.1	0.36	mg/Kg	☼	07/13/17 09:05	07/14/17 12:57	1
Manganese	**800**	**F2**	1.7	0.45	mg/Kg	☼	07/13/17 09:05	07/14/17 12:57	1
Nickel	**19**		4.4	0.99	mg/Kg	☼	07/13/17 09:05	07/14/17 12:57	1
Selenium	**0.47**	**J**	1.1	0.44	mg/Kg	☼	07/13/17 09:05	07/14/17 12:57	1
Silver	ND		0.55	0.18	mg/Kg	☼	07/13/17 09:05	07/14/17 12:57	1
Zinc	**76**	**F1**	2.2	1.1	mg/Kg	☼	07/13/17 09:05	07/14/17 12:57	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.41**	**F1**	0.036	0.0080	mg/Kg	☼	07/14/17 11:17	07/17/17 09:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**10.2**		0.1	0.1	%			07/12/17 15:57	1
Percent Solids	**89.8**		0.1	0.1	%			07/12/17 15:57	1
Cyanide, Total	ND		0.53	0.16	mg/Kg	☼	07/13/17 12:02	07/13/17 15:58	1

Client Sample ID: W2, S2, A 71117 — Lab Sample ID: 180-68096-7

Date Collected: 07/11/17 11:15 — **Matrix: Solid**
Date Received: 07/12/17 09:10 — **Percent Solids: 88.9**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.019	0.0030	mg/Kg	☼	07/13/17 06:04	07/13/17 13:54	1
Benzene	ND		0.0047	0.0019	mg/Kg	☼	07/13/17 06:04	07/13/17 13:54	1
2-Butanone (MEK)	ND		0.0047	0.0027	mg/Kg	☼	07/13/17 06:04	07/13/17 13:54	1
Carbon tetrachloride	ND		0.0047	0.0031	mg/Kg	☼	07/13/17 06:04	07/13/17 13:54	1

Client Sample ID: W2, S2, A 71117

Lab Sample ID: 180-68096-7
Date Collected: 07/11/17 11:15
Matrix: Solid
Date Received: 07/12/17 09:10
Percent Solids: 88.9

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	ND		0.0047	0.0015	mg/Kg	☼	07/13/17 06:04	07/13/17 13:54	1
Chloroform	ND		0.0047	0.0020	mg/Kg	☼	07/13/17 06:04	07/13/17 13:54	1
cis-1,2-Dichloroethene	ND		0.0047	0.0015	mg/Kg	☼	07/13/17 06:04	07/13/17 13:54	1
1,2-Dichlorobenzene	ND		0.0047	0.0038	mg/Kg	☼	07/13/17 06:04	07/13/17 13:54	1
1,3-Dichlorobenzene	ND		0.0047	0.0015	mg/Kg	☼	07/13/17 06:04	07/13/17 13:54	1
1,4-Dichlorobenzene	ND		0.0047	0.00097	mg/Kg	☼	07/13/17 06:04	07/13/17 13:54	1
1,1-Dichloroethane	ND		0.0047	0.0017	mg/Kg	☼	07/13/17 06:04	07/13/17 13:54	1
1,2-Dichloroethane	ND		0.0047	0.0014	mg/Kg	☼	07/13/17 06:04	07/13/17 13:54	1
1,1-Dichloroethene	ND		0.0047	0.0027	mg/Kg	☼	07/13/17 06:04	07/13/17 13:54	1
Ethylbenzene	ND		0.0047	0.0020	mg/Kg	☼	07/13/17 06:04	07/13/17 13:54	1
Methylene Chloride	ND		0.0047	0.0022	mg/Kg	☼	07/13/17 06:04	07/13/17 13:54	1
Methyl tert-butyl ether	ND		0.0047	0.0035	mg/Kg	☼	07/13/17 06:04	07/13/17 13:54	1
n-Butylbenzene	ND		0.0047	0.0036	mg/Kg	☼	07/13/17 06:04	07/13/17 13:54	1
N-Propylbenzene	ND		0.0047	0.0020	mg/Kg	☼	07/13/17 06:04	07/13/17 13:54	1
sec-Butylbenzene	ND		0.0047	0.0023	mg/Kg	☼	07/13/17 06:04	07/13/17 13:54	1
tert-Butylbenzene	ND		0.0047	0.0017	mg/Kg	☼	07/13/17 06:04	07/13/17 13:54	1
Tetrachloroethene	ND		0.0047	0.0019	mg/Kg	☼	07/13/17 06:04	07/13/17 13:54	1
Toluene	ND		0.0047	0.0016	mg/Kg	☼	07/13/17 06:04	07/13/17 13:54	1
trans-1,2-Dichloroethene	ND		0.0047	0.0024	mg/Kg	☼	07/13/17 06:04	07/13/17 13:54	1
1,1,1-Trichloroethane	ND		0.0047	0.0024	mg/Kg	☼	07/13/17 06:04	07/13/17 13:54	1
Trichloroethene	ND		0.0047	0.0014	mg/Kg	☼	07/13/17 06:04	07/13/17 13:54	1
1,2,4-Trimethylbenzene	ND		0.0047	0.0013	mg/Kg	☼	07/13/17 06:04	07/13/17 13:54	1
1,3,5-Trimethylbenzene	ND		0.0047	0.0016	mg/Kg	☼	07/13/17 06:04	07/13/17 13:54	1
Vinyl chloride	ND		0.0047	0.0035	mg/Kg	☼	07/13/17 06:04	07/13/17 13:54	1
Xylenes, Total	ND		0.0095	0.0041	mg/Kg	☼	07/13/17 06:04	07/13/17 13:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*63 - 120*	*07/13/17 06:04*	*07/13/17 13:54*	*1*
Dibromofluoromethane (Surr)	*89*		*68 - 121*	*07/13/17 06:04*	*07/13/17 13:54*	*1*
1,2-Dichloroethane-d4 (Surr)	*84*		*52 - 124*	*07/13/17 06:04*	*07/13/17 13:54*	*1*
Toluene-d8 (Surr)	*110*		*72 - 127*	*07/13/17 06:04*	*07/13/17 13:54*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**11.1**		0.1	0.1	%			07/12/17 15:57	1
Percent Solids	**88.9**		0.1	0.1	%			07/12/17 15:57	1

Client Sample ID: W2, S2, B 71117

Lab Sample ID: 180-68096-8
Date Collected: 07/11/17 11:20
Matrix: Solid
Date Received: 07/12/17 09:10
Percent Solids: 90.6

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.016	0.0026	mg/Kg	☼	07/13/17 06:04	07/13/17 14:16	1
Benzene	ND		0.0041	0.0016	mg/Kg	☼	07/13/17 06:04	07/13/17 14:16	1
2-Butanone (MEK)	ND		0.0041	0.0024	mg/Kg	☼	07/13/17 06:04	07/13/17 14:16	1
Carbon tetrachloride	ND		0.0041	0.0027	mg/Kg	☼	07/13/17 06:04	07/13/17 14:16	1
Chlorobenzene	ND		0.0041	0.0013	mg/Kg	☼	07/13/17 06:04	07/13/17 14:16	1
Chloroform	ND		0.0041	0.0017	mg/Kg	☼	07/13/17 06:04	07/13/17 14:16	1
cis-1,2-Dichloroethene	ND		0.0041	0.0013	mg/Kg	☼	07/13/17 06:04	07/13/17 14:16	1

Client Sample ID: W2, S2, B 71117

Lab Sample ID: 180-68096-8
Date Collected: 07/11/17 11:20
Matrix: Solid
Date Received: 07/12/17 09:10
Percent Solids: 90.6

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		0.0041	0.0033	mg/Kg	☼	07/13/17 06:04	07/13/17 14:16	1
1,3-Dichlorobenzene	ND		0.0041	0.0013	mg/Kg	☼	07/13/17 06:04	07/13/17 14:16	1
1,4-Dichlorobenzene	ND		0.0041	0.00084	mg/Kg	☼	07/13/17 06:04	07/13/17 14:16	1
1,1-Dichloroethane	ND		0.0041	0.0015	mg/Kg	☼	07/13/17 06:04	07/13/17 14:16	1
1,2-Dichloroethane	ND		0.0041	0.0012	mg/Kg	☼	07/13/17 06:04	07/13/17 14:16	1
1,1-Dichloroethene	ND		0.0041	0.0023	mg/Kg	☼	07/13/17 06:04	07/13/17 14:16	1
Ethylbenzene	ND		0.0041	0.0018	mg/Kg	☼	07/13/17 06:04	07/13/17 14:16	1
Methylene Chloride	ND		0.0041	0.0019	mg/Kg	☼	07/13/17 06:04	07/13/17 14:16	1
Methyl tert-butyl ether	ND		0.0041	0.0030	mg/Kg	☼	07/13/17 06:04	07/13/17 14:16	1
n-Butylbenzene	ND		0.0041	0.0031	mg/Kg	☼	07/13/17 06:04	07/13/17 14:16	1
N-Propylbenzene	ND		0.0041	0.0017	mg/Kg	☼	07/13/17 06:04	07/13/17 14:16	1
sec-Butylbenzene	ND		0.0041	0.0020	mg/Kg	☼	07/13/17 06:04	07/13/17 14:16	1
tert-Butylbenzene	ND		0.0041	0.0015	mg/Kg	☼	07/13/17 06:04	07/13/17 14:16	1
Tetrachloroethene	ND		0.0041	0.0016	mg/Kg	☼	07/13/17 06:04	07/13/17 14:16	1
Toluene	ND		0.0041	0.0014	mg/Kg	☼	07/13/17 06:04	07/13/17 14:16	1
trans-1,2-Dichloroethene	ND		0.0041	0.0021	mg/Kg	☼	07/13/17 06:04	07/13/17 14:16	1
1,1,1-Trichloroethane	ND		0.0041	0.0021	mg/Kg	☼	07/13/17 06:04	07/13/17 14:16	1
Trichloroethene	ND		0.0041	0.0012	mg/Kg	☼	07/13/17 06:04	07/13/17 14:16	1
1,2,4-Trimethylbenzene	ND		0.0041	0.0011	mg/Kg	☼	07/13/17 06:04	07/13/17 14:16	1
1,3,5-Trimethylbenzene	ND		0.0041	0.0014	mg/Kg	☼	07/13/17 06:04	07/13/17 14:16	1
Vinyl chloride	ND		0.0041	0.0030	mg/Kg	☼	07/13/17 06:04	07/13/17 14:16	1
Xylenes, Total	ND		0.0082	0.0035	mg/Kg	☼	07/13/17 06:04	07/13/17 14:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*63 - 120*	*07/13/17 06:04*	*07/13/17 14:16*	*1*
Dibromofluoromethane (Surr)	*87*		*68 - 121*	*07/13/17 06:04*	*07/13/17 14:16*	*1*
1,2-Dichloroethane-d4 (Surr)	*81*		*52 - 124*	*07/13/17 06:04*	*07/13/17 14:16*	*1*
Toluene-d8 (Surr)	*110*		*72 - 127*	*07/13/17 06:04*	*07/13/17 14:16*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.4**		0.1	0.1	%			07/12/17 15:57	1
Percent Solids	**90.6**		0.1	0.1	%			07/12/17 15:57	1

Client Sample ID: W2, S2, C 71117

Lab Sample ID: 180-68096-9
Date Collected: 07/11/17 11:25
Matrix: Solid
Date Received: 07/12/17 09:10
Percent Solids: 88.2

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.038	0.013	mg/Kg	☼	07/13/17 03:37	07/13/17 20:25	5
Acenaphthylene	**0.15**		0.038	0.013	mg/Kg	☼	07/13/17 03:37	07/13/17 20:25	5
Anthracene	**0.19**		0.038	0.014	mg/Kg	☼	07/13/17 03:37	07/13/17 20:25	5
Benzo[a]anthracene	**0.51**		0.038	0.015	mg/Kg	☼	07/13/17 03:37	07/13/17 20:25	5
Benzo[a]pyrene	**0.55**		0.038	0.015	mg/Kg	☼	07/13/17 03:37	07/13/17 20:25	5
Benzo[b]fluoranthene	**0.63**		0.038	0.016	mg/Kg	☼	07/13/17 03:37	07/13/17 20:25	5
Benzo[g,h,i]perylene	**0.68**		0.038	0.016	mg/Kg	☼	07/13/17 03:37	07/13/17 20:25	5
Benzo[k]fluoranthene	**0.29**		0.038	0.013	mg/Kg	☼	07/13/17 03:37	07/13/17 20:25	5
Chrysene	**0.47**		0.038	0.015	mg/Kg	☼	07/13/17 03:37	07/13/17 20:25	5
Dibenz(a,h)anthracene	**0.16**		0.038	0.015	mg/Kg	☼	07/13/17 03:37	07/13/17 20:25	5

Client Sample ID: W2, S2, C 71117
Date Collected: 07/11/17 11:25
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-9
Matrix: Solid
Percent Solids: 88.2

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenzofuran	**0.049**	**J**	0.18	0.015	mg/Kg	☼	07/13/17 03:37	07/13/17 20:25	5
1,4-Dioxane	ND		0.37	0.028	mg/Kg	☼	07/13/17 03:37	07/13/17 20:25	5
Fluoranthene	**0.84**		0.038	0.015	mg/Kg	☼	07/13/17 03:37	07/13/17 20:25	5
Fluorene	**0.032**	**J**	0.038	0.013	mg/Kg	☼	07/13/17 03:37	07/13/17 20:25	5
Hexachlorobenzene	ND		0.038	0.015	mg/Kg	☼	07/13/17 03:37	07/13/17 20:25	5
Indeno[1,2,3-cd]pyrene	**0.55**		0.038	0.014	mg/Kg	☼	07/13/17 03:37	07/13/17 20:25	5
2-Methylphenol	ND		0.18	0.016	mg/Kg	☼	07/13/17 03:37	07/13/17 20:25	5
Methylphenol, 3 & 4	ND		0.18	0.017	mg/Kg	☼	07/13/17 03:37	07/13/17 20:25	5
Naphthalene	**0.17**		0.038	0.013	mg/Kg	☼	07/13/17 03:37	07/13/17 20:25	5
Pentachlorophenol	ND		0.95	0.35	mg/Kg	☼	07/13/17 03:37	07/13/17 20:25	5
Phenanthrene	**0.35**		0.038	0.016	mg/Kg	☼	07/13/17 03:37	07/13/17 20:25	5
Phenol	ND		0.18	0.025	mg/Kg	☼	07/13/17 03:37	07/13/17 20:25	5
Pyrene	**0.72**		0.038	0.017	mg/Kg	☼	07/13/17 03:37	07/13/17 20:25	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*59*		*42 - 100*	*07/13/17 03:37*	*07/13/17 20:25*	*5*
2-Fluorophenol (Surr)	*59*		*21 - 107*	*07/13/17 03:37*	*07/13/17 20:25*	*5*
Nitrobenzene-d5 (Surr)	*66*		*35 - 109*	*07/13/17 03:37*	*07/13/17 20:25*	*5*
Phenol-d5 (Surr)	*51*		*29 - 105*	*07/13/17 03:37*	*07/13/17 20:25*	*5*
Terphenyl-d14 (Surr)	*60*		*36 - 113*	*07/13/17 03:37*	*07/13/17 20:25*	*5*
2,4,6-Tribromophenol (Surr)	*58*		*20 - 134*	*07/13/17 03:37*	*07/13/17 20:25*	*5*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.019	0.0099	mg/Kg	☼	07/13/17 03:34	07/14/17 15:48	1
PCB-1221	ND		0.019	0.0097	mg/Kg	☼	07/13/17 03:34	07/14/17 15:48	1
PCB-1232	ND		0.019	0.0074	mg/Kg	☼	07/13/17 03:34	07/14/17 15:48	1
PCB-1242	ND		0.019	0.015	mg/Kg	☼	07/13/17 03:34	07/14/17 15:48	1
PCB-1248	**0.74**		0.019	0.0089	mg/Kg	☼	07/13/17 03:34	07/14/17 15:48	1
PCB-1254	**0.52**		0.019	0.0082	mg/Kg	☼	07/13/17 03:34	07/14/17 15:48	1
PCB-1260	**0.20**		0.019	0.012	mg/Kg	☼	07/13/17 03:34	07/14/17 15:48	1
PCB-1262	ND		0.019	0.013	mg/Kg	☼	07/13/17 03:34	07/14/17 15:48	1
PCB-1268	ND		0.019	0.0057	mg/Kg	☼	07/13/17 03:34	07/14/17 15:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*83*		*23 - 150*	*07/13/17 03:34*	*07/14/17 15:48*	*1*
DCB Decachlorobiphenyl (Surr)	*95*		*23 - 150*	*07/13/17 03:34*	*07/14/17 15:48*	*1*
Tetrachloro-m-xylene (Surr)	*89*		*27 - 138*	*07/13/17 03:34*	*07/14/17 15:48*	*1*
Tetrachloro-m-xylene (Surr)	*79*		*27 - 138*	*07/13/17 03:34*	*07/14/17 15:48*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**5.8**		1.2	0.51	mg/Kg	☼	07/13/17 09:05	07/14/17 13:22	1
Barium	**77**		23	6.2	mg/Kg	☼	07/13/17 09:05	07/14/17 13:22	1
Beryllium	**0.31**	**J**	0.46	0.12	mg/Kg	☼	07/13/17 09:05	07/14/17 13:22	1
Cadmium	**0.16**	**J**	0.58	0.13	mg/Kg	☼	07/13/17 09:05	07/14/17 13:22	1
Chromium	**8.5**		0.58	0.15	mg/Kg	☼	07/13/17 09:05	07/14/17 13:22	1
Copper	**28**		2.9	0.89	mg/Kg	☼	07/13/17 09:05	07/14/17 13:22	1
Lead	**40**		1.2	0.38	mg/Kg	☼	07/13/17 09:05	07/14/17 13:22	1
Manganese	**320**		1.7	0.47	mg/Kg	☼	07/13/17 09:05	07/14/17 13:22	1

Client Sample ID: W2, S2, C 71117

Lab Sample ID: 180-68096-9
Date Collected: 07/11/17 11:25
Matrix: Solid
Date Received: 07/12/17 09:10
Percent Solids: 88.2

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	15		4.6	1.0	mg/Kg	☼	07/13/17 09:05	07/14/17 13:22	1
Selenium	0.51	J	1.2	0.46	mg/Kg	☼	07/13/17 09:05	07/14/17 13:22	1
Silver	ND		0.58	0.19	mg/Kg	☼	07/13/17 09:05	07/14/17 13:22	1
Zinc	76		2.3	1.2	mg/Kg	☼	07/13/17 09:05	07/14/17 13:22	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.42		0.035	0.0079	mg/Kg	☼	07/14/17 11:17	07/17/17 09:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	11.8		0.1	0.1	%			07/12/17 15:57	1
Percent Solids	88.2		0.1	0.1	%			07/12/17 15:57	1
Cyanide, Total	ND		0.54	0.17	mg/Kg	☼	07/13/17 12:02	07/13/17 16:07	1

Client Sample ID: W2, S3, A 71117

Lab Sample ID: 180-68096-10
Date Collected: 07/11/17 11:45
Matrix: Solid
Date Received: 07/12/17 09:10
Percent Solids: 90.9

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.032	0.0050	mg/Kg	☼	07/13/17 06:04	07/13/17 14:39	1
Benzene	ND		0.0079	0.0031	mg/Kg	☼	07/13/17 06:04	07/13/17 14:39	1
2-Butanone (MEK)	ND		0.0079	0.0046	mg/Kg	☼	07/13/17 06:04	07/13/17 14:39	1
Carbon tetrachloride	ND		0.0079	0.0052	mg/Kg	☼	07/13/17 06:04	07/13/17 14:39	1
Chlorobenzene	ND		0.0079	0.0025	mg/Kg	☼	07/13/17 06:04	07/13/17 14:39	1
Chloroform	ND		0.0079	0.0033	mg/Kg	☼	07/13/17 06:04	07/13/17 14:39	1
cis-1,2-Dichloroethene	ND		0.0079	0.0025	mg/Kg	☼	07/13/17 06:04	07/13/17 14:39	1
1,2-Dichlorobenzene	ND		0.0079	0.0064	mg/Kg	☼	07/13/17 06:04	07/13/17 14:39	1
1,3-Dichlorobenzene	ND		0.0079	0.0025	mg/Kg	☼	07/13/17 06:04	07/13/17 14:39	1
1,4-Dichlorobenzene	ND		0.0079	0.0016	mg/Kg	☼	07/13/17 06:04	07/13/17 14:39	1
1,1-Dichloroethane	ND		0.0079	0.0029	mg/Kg	☼	07/13/17 06:04	07/13/17 14:39	1
1,2-Dichloroethane	ND		0.0079	0.0023	mg/Kg	☼	07/13/17 06:04	07/13/17 14:39	1
1,1-Dichloroethene	ND		0.0079	0.0045	mg/Kg	☼	07/13/17 06:04	07/13/17 14:39	1
Ethylbenzene	ND		0.0079	0.0034	mg/Kg	☼	07/13/17 06:04	07/13/17 14:39	1
Methylene Chloride	ND		0.0079	0.0037	mg/Kg	☼	07/13/17 06:04	07/13/17 14:39	1
Methyl tert-butyl ether	ND		0.0079	0.0058	mg/Kg	☼	07/13/17 06:04	07/13/17 14:39	1
n-Butylbenzene	ND		0.0079	0.0060	mg/Kg	☼	07/13/17 06:04	07/13/17 14:39	1
N-Propylbenzene	ND		0.0079	0.0033	mg/Kg	☼	07/13/17 06:04	07/13/17 14:39	1
sec-Butylbenzene	ND		0.0079	0.0039	mg/Kg	☼	07/13/17 06:04	07/13/17 14:39	1
tert-Butylbenzene	ND		0.0079	0.0029	mg/Kg	☼	07/13/17 06:04	07/13/17 14:39	1
Tetrachloroethene	ND		0.0079	0.0032	mg/Kg	☼	07/13/17 06:04	07/13/17 14:39	1
Toluene	ND		0.0079	0.0027	mg/Kg	☼	07/13/17 06:04	07/13/17 14:39	1
trans-1,2-Dichloroethene	ND		0.0079	0.0040	mg/Kg	☼	07/13/17 06:04	07/13/17 14:39	1
1,1,1-Trichloroethane	ND		0.0079	0.0040	mg/Kg	☼	07/13/17 06:04	07/13/17 14:39	1
Trichloroethene	ND		0.0079	0.0024	mg/Kg	☼	07/13/17 06:04	07/13/17 14:39	1
1,2,4-Trimethylbenzene	ND		0.0079	0.0021	mg/Kg	☼	07/13/17 06:04	07/13/17 14:39	1
1,3,5-Trimethylbenzene	ND		0.0079	0.0027	mg/Kg	☼	07/13/17 06:04	07/13/17 14:39	1
Vinyl chloride	ND		0.0079	0.0058	mg/Kg	☼	07/13/17 06:04	07/13/17 14:39	1
Xylenes, Total	ND		0.016	0.0068	mg/Kg	☼	07/13/17 06:04	07/13/17 14:39	1

Client Sample ID: W2, S3, A 71117

Lab Sample ID: 180-68096-10
Date Collected: 07/11/17 11:45
Matrix: Solid
Date Received: 07/12/17 09:10
Percent Solids: 90.9

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*63 - 120*	*07/13/17 06:04*	*07/13/17 14:39*	*1*
Dibromofluoromethane (Surr)	*87*		*68 - 121*	*07/13/17 06:04*	*07/13/17 14:39*	*1*
1,2-Dichloroethane-d4 (Surr)	*82*		*52 - 124*	*07/13/17 06:04*	*07/13/17 14:39*	*1*
Toluene-d8 (Surr)	*106*		*72 - 127*	*07/13/17 06:04*	*07/13/17 14:39*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.1**		0.1	0.1	%			07/12/17 15:57	1
Percent Solids	**90.9**		0.1	0.1	%			07/12/17 15:57	1

Client Sample ID: W2, S3, B 71117

Lab Sample ID: 180-68096-11
Date Collected: 07/11/17 11:50
Matrix: Solid
Date Received: 07/12/17 09:10
Percent Solids: 93.8

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.020	0.0032	mg/Kg	☼	07/13/17 06:04	07/13/17 15:02	1
Benzene	ND		0.0050	0.0020	mg/Kg	☼	07/13/17 06:04	07/13/17 15:02	1
2-Butanone (MEK)	ND		0.0050	0.0029	mg/Kg	☼	07/13/17 06:04	07/13/17 15:02	1
Carbon tetrachloride	ND		0.0050	0.0033	mg/Kg	☼	07/13/17 06:04	07/13/17 15:02	1
Chlorobenzene	ND		0.0050	0.0016	mg/Kg	☼	07/13/17 06:04	07/13/17 15:02	1
Chloroform	ND		0.0050	0.0021	mg/Kg	☼	07/13/17 06:04	07/13/17 15:02	1
cis-1,2-Dichloroethene	ND		0.0050	0.0016	mg/Kg	☼	07/13/17 06:04	07/13/17 15:02	1
1,2-Dichlorobenzene	ND		0.0050	0.0041	mg/Kg	☼	07/13/17 06:04	07/13/17 15:02	1
1,3-Dichlorobenzene	ND		0.0050	0.0016	mg/Kg	☼	07/13/17 06:04	07/13/17 15:02	1
1,4-Dichlorobenzene	ND		0.0050	0.0010	mg/Kg	☼	07/13/17 06:04	07/13/17 15:02	1
1,1-Dichloroethane	ND		0.0050	0.0018	mg/Kg	☼	07/13/17 06:04	07/13/17 15:02	1
1,2-Dichloroethane	ND		0.0050	0.0015	mg/Kg	☼	07/13/17 06:04	07/13/17 15:02	1
1,1-Dichloroethene	ND		0.0050	0.0029	mg/Kg	☼	07/13/17 06:04	07/13/17 15:02	1
Ethylbenzene	ND		0.0050	0.0022	mg/Kg	☼	07/13/17 06:04	07/13/17 15:02	1
Methylene Chloride	ND		0.0050	0.0024	mg/Kg	☼	07/13/17 06:04	07/13/17 15:02	1
Methyl tert-butyl ether	ND		0.0050	0.0037	mg/Kg	☼	07/13/17 06:04	07/13/17 15:02	1
n-Butylbenzene	ND		0.0050	0.0038	mg/Kg	☼	07/13/17 06:04	07/13/17 15:02	1
N-Propylbenzene	ND		0.0050	0.0021	mg/Kg	☼	07/13/17 06:04	07/13/17 15:02	1
sec-Butylbenzene	ND		0.0050	0.0025	mg/Kg	☼	07/13/17 06:04	07/13/17 15:02	1
tert-Butylbenzene	ND		0.0050	0.0018	mg/Kg	☼	07/13/17 06:04	07/13/17 15:02	1
Tetrachloroethene	ND		0.0050	0.0020	mg/Kg	☼	07/13/17 06:04	07/13/17 15:02	1
Toluene	ND		0.0050	0.0017	mg/Kg	☼	07/13/17 06:04	07/13/17 15:02	1
trans-1,2-Dichloroethene	ND		0.0050	0.0026	mg/Kg	☼	07/13/17 06:04	07/13/17 15:02	1
1,1,1-Trichloroethane	ND		0.0050	0.0025	mg/Kg	☼	07/13/17 06:04	07/13/17 15:02	1
Trichloroethene	ND		0.0050	0.0015	mg/Kg	☼	07/13/17 06:04	07/13/17 15:02	1
1,2,4-Trimethylbenzene	ND		0.0050	0.0014	mg/Kg	☼	07/13/17 06:04	07/13/17 15:02	1
1,3,5-Trimethylbenzene	ND		0.0050	0.0017	mg/Kg	☼	07/13/17 06:04	07/13/17 15:02	1
Vinyl chloride	ND		0.0050	0.0037	mg/Kg	☼	07/13/17 06:04	07/13/17 15:02	1
Xylenes, Total	ND		0.010	0.0043	mg/Kg	☼	07/13/17 06:04	07/13/17 15:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*82*		*63 - 120*	*07/13/17 06:04*	*07/13/17 15:02*	*1*
Dibromofluoromethane (Surr)	*84*		*68 - 121*	*07/13/17 06:04*	*07/13/17 15:02*	*1*
1,2-Dichloroethane-d4 (Surr)	*76*		*52 - 124*	*07/13/17 06:04*	*07/13/17 15:02*	*1*
Toluene-d8 (Surr)	*108*		*72 - 127*	*07/13/17 06:04*	*07/13/17 15:02*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	6.2		0.1	0.1	%			07/12/17 15:57	1
Percent Solids	93.8		0.1	0.1	%			07/12/17 15:57	1

Client Sample ID: W2, S3, C 71117

Lab Sample ID: 180-68096-12
Date Collected: 07/11/17 11:55
Matrix: Solid
Date Received: 07/12/17 09:10
Percent Solids: 91.0

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.072	0.024	mg/Kg	☼	07/13/17 03:37	07/13/17 20:52	10
Acenaphthylene	0.23		0.072	0.024	mg/Kg	☼	07/13/17 03:37	07/13/17 20:52	10
Anthracene	0.27		0.072	0.026	mg/Kg	☼	07/13/17 03:37	07/13/17 20:52	10
Benzo[a]anthracene	0.71		0.072	0.028	mg/Kg	☼	07/13/17 03:37	07/13/17 20:52	10
Benzo[a]pyrene	0.72		0.072	0.030	mg/Kg	☼	07/13/17 03:37	07/13/17 20:52	10
Benzo[b]fluoranthene	0.99		0.072	0.031	mg/Kg	☼	07/13/17 03:37	07/13/17 20:52	10
Benzo[g,h,i]perylene	0.86		0.072	0.031	mg/Kg	☼	07/13/17 03:37	07/13/17 20:52	10
Benzo[k]fluoranthene	0.22		0.072	0.025	mg/Kg	☼	07/13/17 03:37	07/13/17 20:52	10
Chrysene	0.73		0.072	0.028	mg/Kg	☼	07/13/17 03:37	07/13/17 20:52	10
Dibenz(a,h)anthracene	0.18		0.072	0.030	mg/Kg	☼	07/13/17 03:37	07/13/17 20:52	10
Dibenzofuran	0.065	J	0.35	0.029	mg/Kg	☼	07/13/17 03:37	07/13/17 20:52	10
1,4-Dioxane	ND		0.71	0.054	mg/Kg	☼	07/13/17 03:37	07/13/17 20:52	10
Fluoranthene	1.2		0.072	0.028	mg/Kg	☼	07/13/17 03:37	07/13/17 20:52	10
Fluorene	0.037	J	0.072	0.025	mg/Kg	☼	07/13/17 03:37	07/13/17 20:52	10
Hexachlorobenzene	ND		0.072	0.029	mg/Kg	☼	07/13/17 03:37	07/13/17 20:52	10
Indeno[1,2,3-cd]pyrene	0.72		0.072	0.028	mg/Kg	☼	07/13/17 03:37	07/13/17 20:52	10
2-Methylphenol	ND		0.35	0.032	mg/Kg	☼	07/13/17 03:37	07/13/17 20:52	10
Methylphenol, 3 & 4	ND		0.35	0.032	mg/Kg	☼	07/13/17 03:37	07/13/17 20:52	10
Naphthalene	0.22		0.072	0.026	mg/Kg	☼	07/13/17 03:37	07/13/17 20:52	10
Pentachlorophenol	ND		1.8	0.68	mg/Kg	☼	07/13/17 03:37	07/13/17 20:52	10
Phenanthrene	0.56		0.072	0.030	mg/Kg	☼	07/13/17 03:37	07/13/17 20:52	10
Phenol	ND		0.35	0.048	mg/Kg	☼	07/13/17 03:37	07/13/17 20:52	10
Pyrene	1.1		0.072	0.032	mg/Kg	☼	07/13/17 03:37	07/13/17 20:52	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*61*		*42 - 100*	*07/13/17 03:37*	*07/13/17 20:52*	*10*
2-Fluorophenol (Surr)	*52*		*21 - 107*	*07/13/17 03:37*	*07/13/17 20:52*	*10*
Nitrobenzene-d5 (Surr)	*63*		*35 - 109*	*07/13/17 03:37*	*07/13/17 20:52*	*10*
Phenol-d5 (Surr)	*53*		*29 - 105*	*07/13/17 03:37*	*07/13/17 20:52*	*10*
Terphenyl-d14 (Surr)	*64*		*36 - 113*	*07/13/17 03:37*	*07/13/17 20:52*	*10*
2,4,6-Tribromophenol (Surr)	*49*		*20 - 134*	*07/13/17 03:37*	*07/13/17 20:52*	*10*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.018	0.0097	mg/Kg	☼	07/13/17 03:34	07/14/17 16:08	1
PCB-1221	ND		0.018	0.0095	mg/Kg	☼	07/13/17 03:34	07/14/17 16:08	1
PCB-1232	ND		0.018	0.0073	mg/Kg	☼	07/13/17 03:34	07/14/17 16:08	1
PCB-1242	ND		0.018	0.015	mg/Kg	☼	07/13/17 03:34	07/14/17 16:08	1
PCB-1248	0.69		0.018	0.0087	mg/Kg	☼	07/13/17 03:34	07/14/17 16:08	1
PCB-1254	0.56		0.018	0.0080	mg/Kg	☼	07/13/17 03:34	07/14/17 16:08	1
PCB-1260	0.16		0.018	0.012	mg/Kg	☼	07/13/17 03:34	07/14/17 16:08	1
PCB-1262	ND		0.018	0.013	mg/Kg	☼	07/13/17 03:34	07/14/17 16:08	1
PCB-1268	ND		0.018	0.0056	mg/Kg	☼	07/13/17 03:34	07/14/17 16:08	1

Client Sample ID: W2, S3, C 71117

Lab Sample ID: 180-68096-12
Date Collected: 07/11/17 11:55
Matrix: Solid
Date Received: 07/12/17 09:10
Percent Solids: 91.0

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*70*		*23 - 150*	*07/13/17 03:34*	*07/14/17 16:08*	*1*
DCB Decachlorobiphenyl (Surr)	*79*		*23 - 150*	*07/13/17 03:34*	*07/14/17 16:08*	*1*
Tetrachloro-m-xylene (Surr)	*77*		*27 - 138*	*07/13/17 03:34*	*07/14/17 16:08*	*1*
Tetrachloro-m-xylene (Surr)	*71*		*27 - 138*	*07/13/17 03:34*	*07/14/17 16:08*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**6.4**		1.1	0.48	mg/Kg	☼	07/13/17 09:05	07/14/17 13:37	1
Barium	**80**		22	5.8	mg/Kg	☼	07/13/17 09:05	07/14/17 13:37	1
Beryllium	**0.33**	**J**	0.44	0.11	mg/Kg	☼	07/13/17 09:05	07/14/17 13:37	1
Cadmium	**0.14**	**J**	0.54	0.12	mg/Kg	☼	07/13/17 09:05	07/14/17 13:37	1
Chromium	**8.5**		0.54	0.14	mg/Kg	☼	07/13/17 09:05	07/14/17 13:37	1
Copper	**86**		2.7	0.84	mg/Kg	☼	07/13/17 09:05	07/14/17 13:37	1
Lead	**50**		1.1	0.36	mg/Kg	☼	07/13/17 09:05	07/14/17 13:37	1
Manganese	**340**		1.6	0.44	mg/Kg	☼	07/13/17 09:05	07/14/17 13:37	1
Nickel	**19**		4.4	0.98	mg/Kg	☼	07/13/17 09:05	07/14/17 13:37	1
Selenium	ND		1.1	0.43	mg/Kg	☼	07/13/17 09:05	07/14/17 13:37	1
Silver	ND		0.54	0.18	mg/Kg	☼	07/13/17 09:05	07/14/17 13:37	1
Zinc	**81**		2.2	1.1	mg/Kg	☼	07/13/17 09:05	07/14/17 13:37	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.46**		0.033	0.0074	mg/Kg	☼	07/14/17 11:17	07/17/17 09:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.0**		0.1	0.1	%			07/12/17 15:57	1
Percent Solids	**91.0**		0.1	0.1	%			07/12/17 15:57	1
Cyanide, Total	ND		0.53	0.16	mg/Kg	☼	07/13/17 12:02	07/13/17 16:08	1

Client Sample ID: W2, S4, A 71117

Lab Sample ID: 180-68096-13
Date Collected: 07/11/17 12:15
Matrix: Solid
Date Received: 07/12/17 09:10
Percent Solids: 90.1

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.016	0.0025	mg/Kg	☼	07/13/17 06:04	07/13/17 15:24	1
Benzene	ND		0.0040	0.0016	mg/Kg	☼	07/13/17 06:04	07/13/17 15:24	1
2-Butanone (MEK)	ND		0.0040	0.0023	mg/Kg	☼	07/13/17 06:04	07/13/17 15:24	1
Carbon tetrachloride	ND		0.0040	0.0027	mg/Kg	☼	07/13/17 06:04	07/13/17 15:24	1
Chlorobenzene	ND		0.0040	0.0013	mg/Kg	☼	07/13/17 06:04	07/13/17 15:24	1
Chloroform	ND		0.0040	0.0017	mg/Kg	☼	07/13/17 06:04	07/13/17 15:24	1
cis-1,2-Dichloroethene	ND		0.0040	0.0013	mg/Kg	☼	07/13/17 06:04	07/13/17 15:24	1
1,2-Dichlorobenzene	ND		0.0040	0.0033	mg/Kg	☼	07/13/17 06:04	07/13/17 15:24	1
1,3-Dichlorobenzene	ND		0.0040	0.0013	mg/Kg	☼	07/13/17 06:04	07/13/17 15:24	1
1,4-Dichlorobenzene	ND		0.0040	0.00082	mg/Kg	☼	07/13/17 06:04	07/13/17 15:24	1
1,1-Dichloroethane	ND		0.0040	0.0015	mg/Kg	☼	07/13/17 06:04	07/13/17 15:24	1
1,2-Dichloroethane	ND		0.0040	0.0012	mg/Kg	☼	07/13/17 06:04	07/13/17 15:24	1
1,1-Dichloroethene	ND		0.0040	0.0023	mg/Kg	☼	07/13/17 06:04	07/13/17 15:24	1
Ethylbenzene	ND		0.0040	0.0017	mg/Kg	☼	07/13/17 06:04	07/13/17 15:24	1
Methylene Chloride	ND		0.0040	0.0019	mg/Kg	☼	07/13/17 06:04	07/13/17 15:24	1

Client Sample ID: W2, S4, A 71117 — Lab Sample ID: 180-68096-13

Date Collected: 07/11/17 12:15 — **Matrix: Solid**
Date Received: 07/12/17 09:10 — **Percent Solids: 90.1**

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.0040	0.0030	mg/Kg	☼	07/13/17 06:04	07/13/17 15:24	1
n-Butylbenzene	ND		0.0040	0.0031	mg/Kg	☼	07/13/17 06:04	07/13/17 15:24	1
N-Propylbenzene	ND		0.0040	0.0017	mg/Kg	☼	07/13/17 06:04	07/13/17 15:24	1
sec-Butylbenzene	ND		0.0040	0.0020	mg/Kg	☼	07/13/17 06:04	07/13/17 15:24	1
tert-Butylbenzene	ND		0.0040	0.0015	mg/Kg	☼	07/13/17 06:04	07/13/17 15:24	1
Tetrachloroethene	ND		0.0040	0.0016	mg/Kg	☼	07/13/17 06:04	07/13/17 15:24	1
Toluene	ND		0.0040	0.0014	mg/Kg	☼	07/13/17 06:04	07/13/17 15:24	1
trans-1,2-Dichloroethene	ND		0.0040	0.0020	mg/Kg	☼	07/13/17 06:04	07/13/17 15:24	1
1,1,1-Trichloroethane	ND		0.0040	0.0020	mg/Kg	☼	07/13/17 06:04	07/13/17 15:24	1
Trichloroethene	ND		0.0040	0.0012	mg/Kg	☼	07/13/17 06:04	07/13/17 15:24	1
1,2,4-Trimethylbenzene	ND		0.0040	0.0011	mg/Kg	☼	07/13/17 06:04	07/13/17 15:24	1
1,3,5-Trimethylbenzene	ND		0.0040	0.0014	mg/Kg	☼	07/13/17 06:04	07/13/17 15:24	1
Vinyl chloride	ND		0.0040	0.0030	mg/Kg	☼	07/13/17 06:04	07/13/17 15:24	1
Xylenes, Total	ND		0.0081	0.0035	mg/Kg	☼	07/13/17 06:04	07/13/17 15:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*63 - 120*	*07/13/17 06:04*	*07/13/17 15:24*	*1*
Dibromofluoromethane (Surr)	*91*		*68 - 121*	*07/13/17 06:04*	*07/13/17 15:24*	*1*
1,2-Dichloroethane-d4 (Surr)	*87*		*52 - 124*	*07/13/17 06:04*	*07/13/17 15:24*	*1*
Toluene-d8 (Surr)	*115*		*72 - 127*	*07/13/17 06:04*	*07/13/17 15:24*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.9**		0.1	0.1	%			07/12/17 15:57	1
Percent Solids	**90.1**		0.1	0.1	%			07/12/17 15:57	1

Client Sample ID: W2, S4, B 71117 — Lab Sample ID: 180-68096-14

Date Collected: 07/11/17 12:20 — **Matrix: Solid**
Date Received: 07/12/17 09:10 — **Percent Solids: 90.7**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.024	0.0038	mg/Kg	☼	07/13/17 06:04	07/13/17 15:47	1
Benzene	ND		0.0060	0.0024	mg/Kg	☼	07/13/17 06:04	07/13/17 15:47	1
2-Butanone (MEK)	ND		0.0060	0.0035	mg/Kg	☼	07/13/17 06:04	07/13/17 15:47	1
Carbon tetrachloride	ND		0.0060	0.0040	mg/Kg	☼	07/13/17 06:04	07/13/17 15:47	1
Chlorobenzene	ND		0.0060	0.0019	mg/Kg	☼	07/13/17 06:04	07/13/17 15:47	1
Chloroform	ND		0.0060	0.0025	mg/Kg	☼	07/13/17 06:04	07/13/17 15:47	1
cis-1,2-Dichloroethene	ND		0.0060	0.0019	mg/Kg	☼	07/13/17 06:04	07/13/17 15:47	1
1,2-Dichlorobenzene	ND		0.0060	0.0048	mg/Kg	☼	07/13/17 06:04	07/13/17 15:47	1
1,3-Dichlorobenzene	ND		0.0060	0.0019	mg/Kg	☼	07/13/17 06:04	07/13/17 15:47	1
1,4-Dichlorobenzene	ND		0.0060	0.0012	mg/Kg	☼	07/13/17 06:04	07/13/17 15:47	1
1,1-Dichloroethane	ND		0.0060	0.0022	mg/Kg	☼	07/13/17 06:04	07/13/17 15:47	1
1,2-Dichloroethane	ND		0.0060	0.0017	mg/Kg	☼	07/13/17 06:04	07/13/17 15:47	1
1,1-Dichloroethene	ND		0.0060	0.0034	mg/Kg	☼	07/13/17 06:04	07/13/17 15:47	1
Ethylbenzene	ND		0.0060	0.0026	mg/Kg	☼	07/13/17 06:04	07/13/17 15:47	1
Methylene Chloride	ND		0.0060	0.0028	mg/Kg	☼	07/13/17 06:04	07/13/17 15:47	1
Methyl tert-butyl ether	ND		0.0060	0.0044	mg/Kg	☼	07/13/17 06:04	07/13/17 15:47	1
n-Butylbenzene	ND		0.0060	0.0045	mg/Kg	☼	07/13/17 06:04	07/13/17 15:47	1
N-Propylbenzene	ND		0.0060	0.0025	mg/Kg	☼	07/13/17 06:04	07/13/17 15:47	1

Client Sample ID: W2, S4, B 71117 — Lab Sample ID: 180-68096-14

Date Collected: 07/11/17 12:20 — **Matrix: Solid**
Date Received: 07/12/17 09:10 — **Percent Solids: 90.7**

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		0.0060	0.0029	mg/Kg	☼	07/13/17 06:04	07/13/17 15:47	1
tert-Butylbenzene	ND		0.0060	0.0022	mg/Kg	☼	07/13/17 06:04	07/13/17 15:47	1
Tetrachloroethene	ND		0.0060	0.0024	mg/Kg	☼	07/13/17 06:04	07/13/17 15:47	1
Toluene	ND		0.0060	0.0020	mg/Kg	☼	07/13/17 06:04	07/13/17 15:47	1
trans-1,2-Dichloroethene	ND		0.0060	0.0030	mg/Kg	☼	07/13/17 06:04	07/13/17 15:47	1
1,1,1-Trichloroethane	ND		0.0060	0.0030	mg/Kg	☼	07/13/17 06:04	07/13/17 15:47	1
Trichloroethene	ND		0.0060	0.0018	mg/Kg	☼	07/13/17 06:04	07/13/17 15:47	1
1,2,4-Trimethylbenzene	ND		0.0060	0.0016	mg/Kg	☼	07/13/17 06:04	07/13/17 15:47	1
1,3,5-Trimethylbenzene	ND		0.0060	0.0021	mg/Kg	☼	07/13/17 06:04	07/13/17 15:47	1
Vinyl chloride	ND		0.0060	0.0044	mg/Kg	☼	07/13/17 06:04	07/13/17 15:47	1
Xylenes, Total	ND		0.012	0.0052	mg/Kg	☼	07/13/17 06:04	07/13/17 15:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*63 - 120*	*07/13/17 06:04*	*07/13/17 15:47*	*1*
Dibromofluoromethane (Surr)	*88*		*68 - 121*	*07/13/17 06:04*	*07/13/17 15:47*	*1*
1,2-Dichloroethane-d4 (Surr)	*81*		*52 - 124*	*07/13/17 06:04*	*07/13/17 15:47*	*1*
Toluene-d8 (Surr)	*114*		*72 - 127*	*07/13/17 06:04*	*07/13/17 15:47*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.3**		0.1	0.1	%			07/12/17 15:57	1
Percent Solids	**90.7**		0.1	0.1	%			07/12/17 15:57	1

Client Sample ID: W2, S4, C 71117 — Lab Sample ID: 180-68096-15

Date Collected: 07/11/17 12:25 — **Matrix: Solid**
Date Received: 07/12/17 09:10 — **Percent Solids: 91.5**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.014**	**J**	0.037	0.012	mg/Kg	☼	07/13/17 03:37	07/13/17 21:20	5
Acenaphthylene	**0.18**		0.037	0.012	mg/Kg	☼	07/13/17 03:37	07/13/17 21:20	5
Anthracene	**0.21**		0.037	0.013	mg/Kg	☼	07/13/17 03:37	07/13/17 21:20	5
Benzo[a]anthracene	**0.68**		0.037	0.014	mg/Kg	☼	07/13/17 03:37	07/13/17 21:20	5
Benzo[a]pyrene	**0.69**		0.037	0.015	mg/Kg	☼	07/13/17 03:37	07/13/17 21:20	5
Benzo[b]fluoranthene	**0.80**		0.037	0.016	mg/Kg	☼	07/13/17 03:37	07/13/17 21:20	5
Benzo[g,h,i]perylene	**0.84**		0.037	0.016	mg/Kg	☼	07/13/17 03:37	07/13/17 21:20	5
Benzo[k]fluoranthene	**0.34**		0.037	0.013	mg/Kg	☼	07/13/17 03:37	07/13/17 21:20	5
Chrysene	**0.67**		0.037	0.014	mg/Kg	☼	07/13/17 03:37	07/13/17 21:20	5
Dibenz(a,h)anthracene	**0.19**		0.037	0.015	mg/Kg	☼	07/13/17 03:37	07/13/17 21:20	5
Dibenzofuran	**0.057**	**J**	0.18	0.015	mg/Kg	☼	07/13/17 03:37	07/13/17 21:20	5
1,4-Dioxane	ND		0.36	0.027	mg/Kg	☼	07/13/17 03:37	07/13/17 21:20	5
Fluoranthene	**1.1**		0.037	0.014	mg/Kg	☼	07/13/17 03:37	07/13/17 21:20	5
Fluorene	**0.039**		0.037	0.013	mg/Kg	☼	07/13/17 03:37	07/13/17 21:20	5
Hexachlorobenzene	ND		0.037	0.015	mg/Kg	☼	07/13/17 03:37	07/13/17 21:20	5
Indeno[1,2,3-cd]pyrene	**0.71**		0.037	0.014	mg/Kg	☼	07/13/17 03:37	07/13/17 21:20	5
2-Methylphenol	ND		0.18	0.016	mg/Kg	☼	07/13/17 03:37	07/13/17 21:20	5
Methylphenol, 3 & 4	ND		0.18	0.016	mg/Kg	☼	07/13/17 03:37	07/13/17 21:20	5
Naphthalene	**0.21**		0.037	0.013	mg/Kg	☼	07/13/17 03:37	07/13/17 21:20	5
Pentachlorophenol	ND		0.93	0.34	mg/Kg	☼	07/13/17 03:37	07/13/17 21:20	5
Phenanthrene	**0.50**		0.037	0.015	mg/Kg	☼	07/13/17 03:37	07/13/17 21:20	5

Client Sample ID: W2, S4, C 71117 **Lab Sample ID: 180-68096-15**
Date Collected: 07/11/17 12:25 **Matrix: Solid**
Date Received: 07/12/17 09:10 **Percent Solids: 91.5**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		0.18	0.025	mg/Kg	☼	07/13/17 03:37	07/13/17 21:20	5
Pyrene	**0.97**		0.037	0.016	mg/Kg	☼	07/13/17 03:37	07/13/17 21:20	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*51*		*42 - 100*	*07/13/17 03:37*	*07/13/17 21:20*	*5*
2-Fluorophenol (Surr)	*50*		*21 - 107*	*07/13/17 03:37*	*07/13/17 21:20*	*5*
Nitrobenzene-d5 (Surr)	*57*		*35 - 109*	*07/13/17 03:37*	*07/13/17 21:20*	*5*
Phenol-d5 (Surr)	*45*		*29 - 105*	*07/13/17 03:37*	*07/13/17 21:20*	*5*
Terphenyl-d14 (Surr)	*50*		*36 - 113*	*07/13/17 03:37*	*07/13/17 21:20*	*5*
2,4,6-Tribromophenol (Surr)	*56*		*20 - 134*	*07/13/17 03:37*	*07/13/17 21:20*	*5*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.018	0.0097	mg/Kg	☼	07/13/17 03:34	07/14/17 16:28	1
PCB-1221	ND		0.018	0.0094	mg/Kg	☼	07/13/17 03:34	07/14/17 16:28	1
PCB-1232	ND		0.018	0.0072	mg/Kg	☼	07/13/17 03:34	07/14/17 16:28	1
PCB-1242	ND		0.018	0.014	mg/Kg	☼	07/13/17 03:34	07/14/17 16:28	1
PCB-1248	**0.70**		0.018	0.0087	mg/Kg	☼	07/13/17 03:34	07/14/17 16:28	1
PCB-1254	**0.48**		0.018	0.0080	mg/Kg	☼	07/13/17 03:34	07/14/17 16:28	1
PCB-1260	**0.16**		0.018	0.012	mg/Kg	☼	07/13/17 03:34	07/14/17 16:28	1
PCB-1262	ND		0.018	0.013	mg/Kg	☼	07/13/17 03:34	07/14/17 16:28	1
PCB-1268	ND		0.018	0.0055	mg/Kg	☼	07/13/17 03:34	07/14/17 16:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*68*		*23 - 150*	*07/13/17 03:34*	*07/14/17 16:28*	*1*
DCB Decachlorobiphenyl (Surr)	*81*		*23 - 150*	*07/13/17 03:34*	*07/14/17 16:28*	*1*
Tetrachloro-m-xylene (Surr)	*72*		*27 - 138*	*07/13/17 03:34*	*07/14/17 16:28*	*1*
Tetrachloro-m-xylene (Surr)	*64*		*27 - 138*	*07/13/17 03:34*	*07/14/17 16:28*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**5.5**		1.0	0.46	mg/Kg	☼	07/13/17 09:05	07/14/17 13:42	1
Barium	**86**		21	5.6	mg/Kg	☼	07/13/17 09:05	07/14/17 13:42	1
Beryllium	**0.32**	**J**	0.42	0.11	mg/Kg	☼	07/13/17 09:05	07/14/17 13:42	1
Cadmium	**0.16**	**J**	0.52	0.12	mg/Kg	☼	07/13/17 09:05	07/14/17 13:42	1
Chromium	**7.9**		0.52	0.14	mg/Kg	☼	07/13/17 09:05	07/14/17 13:42	1
Copper	**32**		2.6	0.80	mg/Kg	☼	07/13/17 09:05	07/14/17 13:42	1
Lead	**36**		1.0	0.34	mg/Kg	☼	07/13/17 09:05	07/14/17 13:42	1
Manganese	**360**		1.6	0.42	mg/Kg	☼	07/13/17 09:05	07/14/17 13:42	1
Nickel	**14**		4.2	0.94	mg/Kg	☼	07/13/17 09:05	07/14/17 13:42	1
Selenium	**0.84**	**J**	1.0	0.41	mg/Kg	☼	07/13/17 09:05	07/14/17 13:42	1
Silver	ND		0.52	0.17	mg/Kg	☼	07/13/17 09:05	07/14/17 13:42	1
Zinc	**69**		2.1	1.1	mg/Kg	☼	07/13/17 09:05	07/14/17 13:42	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.65**		0.035	0.0079	mg/Kg	☼	07/14/17 11:17	07/17/17 09:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**8.5**		0.1	0.1	%			07/12/17 15:57	1

Client Sample ID: W2, S4, C 71117 — Lab Sample ID: 180-68096-15

Date Collected: 07/11/17 12:25 — **Matrix: Solid**
Date Received: 07/12/17 09:10 — **Percent Solids: 91.5**

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	91.5		0.1	0.1	%			07/12/17 15:57	1
Cyanide, Total	0.29	J	0.53	0.16	mg/Kg	☼	07/13/17 12:02	07/13/17 16:10	1

Client Sample ID: W2, S5 A 71117 — Lab Sample ID: 180-68096-16

Date Collected: 07/11/17 12:45 — **Matrix: Solid**
Date Received: 07/12/17 09:10 — **Percent Solids: 91.9**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.043	0.0067	mg/Kg	☼	07/13/17 06:04	07/13/17 16:10	1
Benzene	ND		0.011	0.0042	mg/Kg	☼	07/13/17 06:04	07/13/17 16:10	1
2-Butanone (MEK)	ND		0.011	0.0062	mg/Kg	☼	07/13/17 06:04	07/13/17 16:10	1
Carbon tetrachloride	ND		0.011	0.0071	mg/Kg	☼	07/13/17 06:04	07/13/17 16:10	1
Chlorobenzene	ND		0.011	0.0034	mg/Kg	☼	07/13/17 06:04	07/13/17 16:10	1
Chloroform	ND		0.011	0.0045	mg/Kg	☼	07/13/17 06:04	07/13/17 16:10	1
cis-1,2-Dichloroethene	ND		0.011	0.0034	mg/Kg	☼	07/13/17 06:04	07/13/17 16:10	1
1,2-Dichlorobenzene	ND		0.011	0.0086	mg/Kg	☼	07/13/17 06:04	07/13/17 16:10	1
1,3-Dichlorobenzene	ND		0.011	0.0034	mg/Kg	☼	07/13/17 06:04	07/13/17 16:10	1
1,4-Dichlorobenzene	ND		0.011	0.0022	mg/Kg	☼	07/13/17 06:04	07/13/17 16:10	1
1,1-Dichloroethane	ND		0.011	0.0039	mg/Kg	☼	07/13/17 06:04	07/13/17 16:10	1
1,2-Dichloroethane	ND		0.011	0.0031	mg/Kg	☼	07/13/17 06:04	07/13/17 16:10	1
1,1-Dichloroethene	ND		0.011	0.0061	mg/Kg	☼	07/13/17 06:04	07/13/17 16:10	1
Ethylbenzene	ND		0.011	0.0046	mg/Kg	☼	07/13/17 06:04	07/13/17 16:10	1
Methylene Chloride	ND		0.011	0.0050	mg/Kg	☼	07/13/17 06:04	07/13/17 16:10	1
Methyl tert-butyl ether	ND		0.011	0.0079	mg/Kg	☼	07/13/17 06:04	07/13/17 16:10	1
n-Butylbenzene	ND		0.011	0.0081	mg/Kg	☼	07/13/17 06:04	07/13/17 16:10	1
N-Propylbenzene	ND		0.011	0.0045	mg/Kg	☼	07/13/17 06:04	07/13/17 16:10	1
sec-Butylbenzene	ND		0.011	0.0052	mg/Kg	☼	07/13/17 06:04	07/13/17 16:10	1
tert-Butylbenzene	ND		0.011	0.0039	mg/Kg	☼	07/13/17 06:04	07/13/17 16:10	1
Tetrachloroethene	ND		0.011	0.0043	mg/Kg	☼	07/13/17 06:04	07/13/17 16:10	1
Toluene	ND		0.011	0.0036	mg/Kg	☼	07/13/17 06:04	07/13/17 16:10	1
trans-1,2-Dichloroethene	ND		0.011	0.0054	mg/Kg	☼	07/13/17 06:04	07/13/17 16:10	1
1,1,1-Trichloroethane	ND		0.011	0.0054	mg/Kg	☼	07/13/17 06:04	07/13/17 16:10	1
Trichloroethene	ND		0.011	0.0032	mg/Kg	☼	07/13/17 06:04	07/13/17 16:10	1
1,2,4-Trimethylbenzene	ND		0.011	0.0029	mg/Kg	☼	07/13/17 06:04	07/13/17 16:10	1
1,3,5-Trimethylbenzene	ND		0.011	0.0037	mg/Kg	☼	07/13/17 06:04	07/13/17 16:10	1
Vinyl chloride	ND		0.011	0.0078	mg/Kg	☼	07/13/17 06:04	07/13/17 16:10	1
Xylenes, Total	ND		0.021	0.0092	mg/Kg	☼	07/13/17 06:04	07/13/17 16:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*83*		*63 - 120*	*07/13/17 06:04*	*07/13/17 16:10*	*1*
Dibromofluoromethane (Surr)	*85*		*68 - 121*	*07/13/17 06:04*	*07/13/17 16:10*	*1*
1,2-Dichloroethane-d4 (Surr)	*81*		*52 - 124*	*07/13/17 06:04*	*07/13/17 16:10*	*1*
Toluene-d8 (Surr)	*104*		*72 - 127*	*07/13/17 06:04*	*07/13/17 16:10*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	8.1		0.1	0.1	%			07/12/17 15:57	1
Percent Solids	91.9		0.1	0.1	%			07/12/17 15:57	1

Client Sample ID: W2, S5 B 71117 — Lab Sample ID: 180-68096-17

Date Collected: 07/11/17 12:50 — **Matrix: Solid**
Date Received: 07/12/17 09:10 — **Percent Solids: 91.0**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.016	0.0025	mg/Kg	☼	07/13/17 06:04	07/13/17 16:33	1
Benzene	ND		0.0040	0.0016	mg/Kg	☼	07/13/17 06:04	07/13/17 16:33	1
2-Butanone (MEK)	ND		0.0040	0.0023	mg/Kg	☼	07/13/17 06:04	07/13/17 16:33	1
Carbon tetrachloride	ND		0.0040	0.0026	mg/Kg	☼	07/13/17 06:04	07/13/17 16:33	1
Chlorobenzene	ND		0.0040	0.0013	mg/Kg	☼	07/13/17 06:04	07/13/17 16:33	1
Chloroform	ND		0.0040	0.0017	mg/Kg	☼	07/13/17 06:04	07/13/17 16:33	1
cis-1,2-Dichloroethene	ND		0.0040	0.0013	mg/Kg	☼	07/13/17 06:04	07/13/17 16:33	1
1,2-Dichlorobenzene	ND		0.0040	0.0032	mg/Kg	☼	07/13/17 06:04	07/13/17 16:33	1
1,3-Dichlorobenzene	ND		0.0040	0.0013	mg/Kg	☼	07/13/17 06:04	07/13/17 16:33	1
1,4-Dichlorobenzene	ND		0.0040	0.00081	mg/Kg	☼	07/13/17 06:04	07/13/17 16:33	1
1,1-Dichloroethane	ND		0.0040	0.0014	mg/Kg	☼	07/13/17 06:04	07/13/17 16:33	1
1,2-Dichloroethane	ND		0.0040	0.0012	mg/Kg	☼	07/13/17 06:04	07/13/17 16:33	1
1,1-Dichloroethene	ND		0.0040	0.0023	mg/Kg	☼	07/13/17 06:04	07/13/17 16:33	1
Ethylbenzene	ND		0.0040	0.0017	mg/Kg	☼	07/13/17 06:04	07/13/17 16:33	1
Methylene Chloride	ND		0.0040	0.0019	mg/Kg	☼	07/13/17 06:04	07/13/17 16:33	1
Methyl tert-butyl ether	ND		0.0040	0.0029	mg/Kg	☼	07/13/17 06:04	07/13/17 16:33	1
n-Butylbenzene	ND		0.0040	0.0030	mg/Kg	☼	07/13/17 06:04	07/13/17 16:33	1
N-Propylbenzene	ND		0.0040	0.0017	mg/Kg	☼	07/13/17 06:04	07/13/17 16:33	1
sec-Butylbenzene	ND		0.0040	0.0019	mg/Kg	☼	07/13/17 06:04	07/13/17 16:33	1
tert-Butylbenzene	ND		0.0040	0.0015	mg/Kg	☼	07/13/17 06:04	07/13/17 16:33	1
Tetrachloroethene	ND		0.0040	0.0016	mg/Kg	☼	07/13/17 06:04	07/13/17 16:33	1
Toluene	ND		0.0040	0.0013	mg/Kg	☼	07/13/17 06:04	07/13/17 16:33	1
trans-1,2-Dichloroethene	ND		0.0040	0.0020	mg/Kg	☼	07/13/17 06:04	07/13/17 16:33	1
1,1,1-Trichloroethane	ND		0.0040	0.0020	mg/Kg	☼	07/13/17 06:04	07/13/17 16:33	1
Trichloroethene	ND		0.0040	0.0012	mg/Kg	☼	07/13/17 06:04	07/13/17 16:33	1
1,2,4-Trimethylbenzene	ND		0.0040	0.0011	mg/Kg	☼	07/13/17 06:04	07/13/17 16:33	1
1,3,5-Trimethylbenzene	ND		0.0040	0.0014	mg/Kg	☼	07/13/17 06:04	07/13/17 16:33	1
Vinyl chloride	ND		0.0040	0.0029	mg/Kg	☼	07/13/17 06:04	07/13/17 16:33	1
Xylenes, Total	ND		0.0080	0.0034	mg/Kg	☼	07/13/17 06:04	07/13/17 16:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*63 - 120*	*07/13/17 06:04*	*07/13/17 16:33*	*1*
Dibromofluoromethane (Surr)	*95*		*68 - 121*	*07/13/17 06:04*	*07/13/17 16:33*	*1*
1,2-Dichloroethane-d4 (Surr)	*89*		*52 - 124*	*07/13/17 06:04*	*07/13/17 16:33*	*1*
Toluene-d8 (Surr)	*123*		*72 - 127*	*07/13/17 06:04*	*07/13/17 16:33*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.0**		0.1	0.1	%			07/12/17 15:57	1
Percent Solids	**91.0**		0.1	0.1	%			07/12/17 15:57	1

Client Sample ID: W2, S5 C 71117 — Lab Sample ID: 180-68096-18

Date Collected: 07/11/17 12:55 — **Matrix: Solid**
Date Received: 07/12/17 09:10 — **Percent Solids: 91.3**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.063**		0.036	0.012	mg/Kg	☼	07/13/17 03:37	07/13/17 21:47	5
Acenaphthylene	**0.40**		0.036	0.012	mg/Kg	☼	07/13/17 03:37	07/13/17 21:47	5
Anthracene	**1.5**		0.036	0.013	mg/Kg	☼	07/13/17 03:37	07/13/17 21:47	5

Client Sample ID: W2, S5 C 71117 **Lab Sample ID: 180-68096-18**
Date Collected: 07/11/17 12:55 **Matrix: Solid**
Date Received: 07/12/17 09:10 **Percent Solids: 91.3**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	**2.3**		0.036	0.014	mg/Kg	☼	07/13/17 03:37	07/13/17 21:47	5
Benzo[a]pyrene	**1.9**		0.036	0.015	mg/Kg	☼	07/13/17 03:37	07/13/17 21:47	5
Benzo[b]fluoranthene	**2.2**		0.036	0.016	mg/Kg	☼	07/13/17 03:37	07/13/17 21:47	5
Benzo[g,h,i]perylene	**1.9**		0.036	0.016	mg/Kg	☼	07/13/17 03:37	07/13/17 21:47	5
Benzo[k]fluoranthene	**0.88**		0.036	0.013	mg/Kg	☼	07/13/17 03:37	07/13/17 21:47	5
Chrysene	**2.1**		0.036	0.014	mg/Kg	☼	07/13/17 03:37	07/13/17 21:47	5
Dibenz(a,h)anthracene	**0.41**		0.036	0.015	mg/Kg	☼	07/13/17 03:37	07/13/17 21:47	5
Dibenzofuran	**0.17**	**J**	0.18	0.015	mg/Kg	☼	07/13/17 03:37	07/13/17 21:47	5
1,4-Dioxane	ND		0.36	0.027	mg/Kg	☼	07/13/17 03:37	07/13/17 21:47	5
Fluoranthene	**5.7**		0.036	0.014	mg/Kg	☼	07/13/17 03:37	07/13/17 21:47	5
Fluorene	**0.23**		0.036	0.013	mg/Kg	☼	07/13/17 03:37	07/13/17 21:47	5
Hexachlorobenzene	ND		0.036	0.015	mg/Kg	☼	07/13/17 03:37	07/13/17 21:47	5
Indeno[1,2,3-cd]pyrene	**1.7**		0.036	0.014	mg/Kg	☼	07/13/17 03:37	07/13/17 21:47	5
2-Methylphenol	ND		0.18	0.016	mg/Kg	☼	07/13/17 03:37	07/13/17 21:47	5
Methylphenol, 3 & 4	**0.019**	**J**	0.18	0.016	mg/Kg	☼	07/13/17 03:37	07/13/17 21:47	5
Naphthalene	**0.38**		0.036	0.013	mg/Kg	☼	07/13/17 03:37	07/13/17 21:47	5
Pentachlorophenol	ND		0.92	0.34	mg/Kg	☼	07/13/17 03:37	07/13/17 21:47	5
Phenanthrene	**3.7**		0.036	0.015	mg/Kg	☼	07/13/17 03:37	07/13/17 21:47	5
Phenol	ND		0.18	0.025	mg/Kg	☼	07/13/17 03:37	07/13/17 21:47	5
Pyrene	**3.8**		0.036	0.016	mg/Kg	☼	07/13/17 03:37	07/13/17 21:47	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*62*		*42 - 100*	*07/13/17 03:37*	*07/13/17 21:47*	*5*
2-Fluorophenol (Surr)	*58*		*21 - 107*	*07/13/17 03:37*	*07/13/17 21:47*	*5*
Nitrobenzene-d5 (Surr)	*66*		*35 - 109*	*07/13/17 03:37*	*07/13/17 21:47*	*5*
Phenol-d5 (Surr)	*53*		*29 - 105*	*07/13/17 03:37*	*07/13/17 21:47*	*5*
Terphenyl-d14 (Surr)	*54*		*36 - 113*	*07/13/17 03:37*	*07/13/17 21:47*	*5*
2,4,6-Tribromophenol (Surr)	*63*		*20 - 134*	*07/13/17 03:37*	*07/13/17 21:47*	*5*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.018	0.0094	mg/Kg	☼	07/13/17 03:34	07/14/17 16:48	1
PCB-1221	ND		0.018	0.0092	mg/Kg	☼	07/13/17 03:34	07/14/17 16:48	1
PCB-1232	ND		0.018	0.0070	mg/Kg	☼	07/13/17 03:34	07/14/17 16:48	1
PCB-1242	ND		0.018	0.014	mg/Kg	☼	07/13/17 03:34	07/14/17 16:48	1
PCB-1248	**0.70**		0.018	0.0085	mg/Kg	☼	07/13/17 03:34	07/14/17 16:48	1
PCB-1254	**0.48**		0.018	0.0078	mg/Kg	☼	07/13/17 03:34	07/14/17 16:48	1
PCB-1260	**0.17**		0.018	0.012	mg/Kg	☼	07/13/17 03:34	07/14/17 16:48	1
PCB-1262	ND		0.018	0.013	mg/Kg	☼	07/13/17 03:34	07/14/17 16:48	1
PCB-1268	ND		0.018	0.0054	mg/Kg	☼	07/13/17 03:34	07/14/17 16:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*70*		*23 - 150*	*07/13/17 03:34*	*07/14/17 16:48*	*1*
DCB Decachlorobiphenyl (Surr)	*81*		*23 - 150*	*07/13/17 03:34*	*07/14/17 16:48*	*1*
Tetrachloro-m-xylene (Surr)	*78*		*27 - 138*	*07/13/17 03:34*	*07/14/17 16:48*	*1*
Tetrachloro-m-xylene (Surr)	*70*		*27 - 138*	*07/13/17 03:34*	*07/14/17 16:48*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**5.4**		1.0	0.46	mg/Kg	☼	07/13/17 09:05	07/14/17 13:48	1

Client Sample ID: W2, S5 C 71117

Lab Sample ID: 180-68096-18

Date Collected: 07/11/17 12:55
Matrix: Solid
Date Received: 07/12/17 09:10
Percent Solids: 91.3

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**69**		21	5.6	mg/Kg	☼	07/13/17 09:05	07/14/17 13:48	1
Beryllium	**0.27**	**J**	0.42	0.11	mg/Kg	☼	07/13/17 09:05	07/14/17 13:48	1
Cadmium	**0.17**	**J**	0.52	0.12	mg/Kg	☼	07/13/17 09:05	07/14/17 13:48	1
Chromium	**8.7**		0.52	0.14	mg/Kg	☼	07/13/17 09:05	07/14/17 13:48	1
Copper	**34**		2.6	0.80	mg/Kg	☼	07/13/17 09:05	07/14/17 13:48	1
Lead	**44**		1.0	0.34	mg/Kg	☼	07/13/17 09:05	07/14/17 13:48	1
Manganese	**270**		1.6	0.42	mg/Kg	☼	07/13/17 09:05	07/14/17 13:48	1
Nickel	**13**		4.2	0.94	mg/Kg	☼	07/13/17 09:05	07/14/17 13:48	1
Selenium	ND		1.0	0.41	mg/Kg	☼	07/13/17 09:05	07/14/17 13:48	1
Silver	ND		0.52	0.17	mg/Kg	☼	07/13/17 09:05	07/14/17 13:48	1
Zinc	**75**		2.1	1.1	mg/Kg	☼	07/13/17 09:05	07/14/17 13:48	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.69**		0.037	0.0082	mg/Kg	☼	07/14/17 11:17	07/17/17 09:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**8.7**		0.1	0.1	%			07/12/17 16:42	1
Percent Solids	**91.3**		0.1	0.1	%			07/12/17 16:42	1
Cyanide, Total	ND		0.53	0.16	mg/Kg	☼	07/13/17 12:02	07/13/17 16:12	1

Client Sample ID: W3, S1 A 71117

Lab Sample ID: 180-68096-19

Date Collected: 07/11/17 13:15
Matrix: Solid
Date Received: 07/12/17 09:10
Percent Solids: 91.3

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.023	0.0036	mg/Kg	☼	07/16/17 09:00	07/16/17 11:57	1
Benzene	ND		0.0057	0.0022	mg/Kg	☼	07/16/17 09:00	07/16/17 11:57	1
2-Butanone (MEK)	ND		0.0057	0.0033	mg/Kg	☼	07/16/17 09:00	07/16/17 11:57	1
Carbon tetrachloride	ND		0.0057	0.0038	mg/Kg	☼	07/16/17 09:00	07/16/17 11:57	1
Chlorobenzene	ND		0.0057	0.0018	mg/Kg	☼	07/16/17 09:00	07/16/17 11:57	1
Chloroform	ND		0.0057	0.0024	mg/Kg	☼	07/16/17 09:00	07/16/17 11:57	1
cis-1,2-Dichloroethene	ND		0.0057	0.0018	mg/Kg	☼	07/16/17 09:00	07/16/17 11:57	1
1,2-Dichlorobenzene	ND		0.0057	0.0046	mg/Kg	☼	07/16/17 09:00	07/16/17 11:57	1
1,3-Dichlorobenzene	ND		0.0057	0.0018	mg/Kg	☼	07/16/17 09:00	07/16/17 11:57	1
1,4-Dichlorobenzene	ND		0.0057	0.0012	mg/Kg	☼	07/16/17 09:00	07/16/17 11:57	1
1,1-Dichloroethane	ND		0.0057	0.0021	mg/Kg	☼	07/16/17 09:00	07/16/17 11:57	1
1,2-Dichloroethane	ND		0.0057	0.0016	mg/Kg	☼	07/16/17 09:00	07/16/17 11:57	1
1,1-Dichloroethene	ND		0.0057	0.0032	mg/Kg	☼	07/16/17 09:00	07/16/17 11:57	1
Ethylbenzene	ND		0.0057	0.0024	mg/Kg	☼	07/16/17 09:00	07/16/17 11:57	1
Methylene Chloride	ND		0.0057	0.0027	mg/Kg	☼	07/16/17 09:00	07/16/17 11:57	1
Methyl tert-butyl ether	ND		0.0057	0.0042	mg/Kg	☼	07/16/17 09:00	07/16/17 11:57	1
n-Butylbenzene	ND		0.0057	0.0043	mg/Kg	☼	07/16/17 09:00	07/16/17 11:57	1
N-Propylbenzene	ND		0.0057	0.0024	mg/Kg	☼	07/16/17 09:00	07/16/17 11:57	1
sec-Butylbenzene	ND		0.0057	0.0028	mg/Kg	☼	07/16/17 09:00	07/16/17 11:57	1
tert-Butylbenzene	ND		0.0057	0.0021	mg/Kg	☼	07/16/17 09:00	07/16/17 11:57	1
Tetrachloroethene	ND		0.0057	0.0023	mg/Kg	☼	07/16/17 09:00	07/16/17 11:57	1
Toluene	ND		0.0057	0.0019	mg/Kg	☼	07/16/17 09:00	07/16/17 11:57	1

Client Sample ID: W3, S1 A 71117 — Lab Sample ID: 180-68096-19

Date Collected: 07/11/17 13:15 — **Matrix: Solid**
Date Received: 07/12/17 09:10 — **Percent Solids: 91.3**

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		0.0057	0.0029	mg/Kg	☼	07/16/17 09:00	07/16/17 11:57	1
1,1,1-Trichloroethane	ND		0.0057	0.0028	mg/Kg	☼	07/16/17 09:00	07/16/17 11:57	1
Trichloroethene	ND		0.0057	0.0017	mg/Kg	☼	07/16/17 09:00	07/16/17 11:57	1
1,2,4-Trimethylbenzene	ND		0.0057	0.0015	mg/Kg	☼	07/16/17 09:00	07/16/17 11:57	1
1,3,5-Trimethylbenzene	ND		0.0057	0.0020	mg/Kg	☼	07/16/17 09:00	07/16/17 11:57	1
Vinyl chloride	ND		0.0057	0.0042	mg/Kg	☼	07/16/17 09:00	07/16/17 11:57	1
Xylenes, Total	ND		0.011	0.0049	mg/Kg	☼	07/16/17 09:00	07/16/17 11:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*63 - 120*	*07/16/17 09:00*	*07/16/17 11:57*	*1*
Dibromofluoromethane (Surr)	*92*		*68 - 121*	*07/16/17 09:00*	*07/16/17 11:57*	*1*
1,2-Dichloroethane-d4 (Surr)	*83*		*52 - 124*	*07/16/17 09:00*	*07/16/17 11:57*	*1*
Toluene-d8 (Surr)	*120*		*72 - 127*	*07/16/17 09:00*	*07/16/17 11:57*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**8.7**		0.1	0.1	%			07/12/17 16:42	1
Percent Solids	**91.3**		0.1	0.1	%			07/12/17 16:42	1

Client Sample ID: W3, S1 B 71117 — Lab Sample ID: 180-68096-20

Date Collected: 07/11/17 13:20 — **Matrix: Solid**
Date Received: 07/12/17 09:10 — **Percent Solids: 90.6**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.030	0.0047	mg/Kg	☼	07/16/17 09:00	07/16/17 19:32	1
Benzene	ND		0.0074	0.0029	mg/Kg	☼	07/16/17 09:00	07/16/17 19:32	1
2-Butanone (MEK)	ND		0.0074	0.0043	mg/Kg	☼	07/16/17 09:00	07/16/17 19:32	1
Carbon tetrachloride	ND		0.0074	0.0049	mg/Kg	☼	07/16/17 09:00	07/16/17 19:32	1
Chlorobenzene	ND		0.0074	0.0023	mg/Kg	☼	07/16/17 09:00	07/16/17 19:32	1
Chloroform	ND		0.0074	0.0031	mg/Kg	☼	07/16/17 09:00	07/16/17 19:32	1
cis-1,2-Dichloroethene	ND		0.0074	0.0023	mg/Kg	☼	07/16/17 09:00	07/16/17 19:32	1
1,2-Dichlorobenzene	ND		0.0074	0.0060	mg/Kg	☼	07/16/17 09:00	07/16/17 19:32	1
1,3-Dichlorobenzene	ND		0.0074	0.0024	mg/Kg	☼	07/16/17 09:00	07/16/17 19:32	1
1,4-Dichlorobenzene	ND		0.0074	0.0015	mg/Kg	☼	07/16/17 09:00	07/16/17 19:32	1
1,1-Dichloroethane	ND		0.0074	0.0027	mg/Kg	☼	07/16/17 09:00	07/16/17 19:32	1
1,2-Dichloroethane	ND		0.0074	0.0022	mg/Kg	☼	07/16/17 09:00	07/16/17 19:32	1
1,1-Dichloroethene	ND		0.0074	0.0042	mg/Kg	☼	07/16/17 09:00	07/16/17 19:32	1
Ethylbenzene	ND		0.0074	0.0032	mg/Kg	☼	07/16/17 09:00	07/16/17 19:32	1
Methylene Chloride	ND		0.0074	0.0035	mg/Kg	☼	07/16/17 09:00	07/16/17 19:32	1
Methyl tert-butyl ether	ND		0.0074	0.0055	mg/Kg	☼	07/16/17 09:00	07/16/17 19:32	1
n-Butylbenzene	ND		0.0074	0.0056	mg/Kg	☼	07/16/17 09:00	07/16/17 19:32	1
N-Propylbenzene	ND		0.0074	0.0031	mg/Kg	☼	07/16/17 09:00	07/16/17 19:32	1
sec-Butylbenzene	ND		0.0074	0.0036	mg/Kg	☼	07/16/17 09:00	07/16/17 19:32	1
tert-Butylbenzene	ND		0.0074	0.0027	mg/Kg	☼	07/16/17 09:00	07/16/17 19:32	1
Tetrachloroethene	ND		0.0074	0.0030	mg/Kg	☼	07/16/17 09:00	07/16/17 19:32	1
Toluene	ND		0.0074	0.0025	mg/Kg	☼	07/16/17 09:00	07/16/17 19:32	1
trans-1,2-Dichloroethene	ND		0.0074	0.0038	mg/Kg	☼	07/16/17 09:00	07/16/17 19:32	1
1,1,1-Trichloroethane	ND		0.0074	0.0037	mg/Kg	☼	07/16/17 09:00	07/16/17 19:32	1
Trichloroethene	ND		0.0074	0.0022	mg/Kg	☼	07/16/17 09:00	07/16/17 19:32	1

Client Sample ID: W3, S1 B 71117 — Lab Sample ID: 180-68096-20

Date Collected: 07/11/17 13:20 — **Matrix: Solid**
Date Received: 07/12/17 09:10 — **Percent Solids: 90.6**

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	ND		0.0074	0.0020	mg/Kg	☼	07/16/17 09:00	07/16/17 19:32	1
1,3,5-Trimethylbenzene	ND		0.0074	0.0026	mg/Kg	☼	07/16/17 09:00	07/16/17 19:32	1
Vinyl chloride	ND		0.0074	0.0055	mg/Kg	☼	07/16/17 09:00	07/16/17 19:32	1
Xylenes, Total	ND		0.015	0.0064	mg/Kg	☼	07/16/17 09:00	07/16/17 19:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*63 - 120*	*07/16/17 09:00*	*07/16/17 19:32*	*1*
Dibromofluoromethane (Surr)	*97*		*68 - 121*	*07/16/17 09:00*	*07/16/17 19:32*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*52 - 124*	*07/16/17 09:00*	*07/16/17 19:32*	*1*
Toluene-d8 (Surr)	*104*		*72 - 127*	*07/16/17 09:00*	*07/16/17 19:32*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.4**		0.1	0.1	%			07/12/17 16:42	1
Percent Solids	**90.6**		0.1	0.1	%			07/12/17 16:42	1

Client Sample ID: DUP-3 — Lab Sample ID: 180-68096-21

Date Collected: 07/11/17 00:00 — **Matrix: Solid**
Date Received: 07/12/17 09:10 — **Percent Solids: 91.9**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.020	0.0032	mg/Kg	☼	07/16/17 09:00	07/16/17 12:43	1
Benzene	ND		0.0051	0.0020	mg/Kg	☼	07/16/17 09:00	07/16/17 12:43	1
2-Butanone (MEK)	ND		0.0051	0.0030	mg/Kg	☼	07/16/17 09:00	07/16/17 12:43	1
Carbon tetrachloride	ND		0.0051	0.0034	mg/Kg	☼	07/16/17 09:00	07/16/17 12:43	1
Chlorobenzene	ND		0.0051	0.0016	mg/Kg	☼	07/16/17 09:00	07/16/17 12:43	1
Chloroform	ND		0.0051	0.0022	mg/Kg	☼	07/16/17 09:00	07/16/17 12:43	1
cis-1,2-Dichloroethene	ND		0.0051	0.0016	mg/Kg	☼	07/16/17 09:00	07/16/17 12:43	1
1,2-Dichlorobenzene	ND		0.0051	0.0041	mg/Kg	☼	07/16/17 09:00	07/16/17 12:43	1
1,3-Dichlorobenzene	ND		0.0051	0.0016	mg/Kg	☼	07/16/17 09:00	07/16/17 12:43	1
1,4-Dichlorobenzene	ND		0.0051	0.0010	mg/Kg	☼	07/16/17 09:00	07/16/17 12:43	1
1,1-Dichloroethane	ND		0.0051	0.0019	mg/Kg	☼	07/16/17 09:00	07/16/17 12:43	1
1,2-Dichloroethane	ND		0.0051	0.0015	mg/Kg	☼	07/16/17 09:00	07/16/17 12:43	1
1,1-Dichloroethene	ND		0.0051	0.0029	mg/Kg	☼	07/16/17 09:00	07/16/17 12:43	1
Ethylbenzene	ND		0.0051	0.0022	mg/Kg	☼	07/16/17 09:00	07/16/17 12:43	1
Methylene Chloride	ND		0.0051	0.0024	mg/Kg	☼	07/16/17 09:00	07/16/17 12:43	1
Methyl tert-butyl ether	ND		0.0051	0.0038	mg/Kg	☼	07/16/17 09:00	07/16/17 12:43	1
n-Butylbenzene	ND		0.0051	0.0039	mg/Kg	☼	07/16/17 09:00	07/16/17 12:43	1
N-Propylbenzene	ND		0.0051	0.0022	mg/Kg	☼	07/16/17 09:00	07/16/17 12:43	1
sec-Butylbenzene	ND		0.0051	0.0025	mg/Kg	☼	07/16/17 09:00	07/16/17 12:43	1
tert-Butylbenzene	ND		0.0051	0.0019	mg/Kg	☼	07/16/17 09:00	07/16/17 12:43	1
Tetrachloroethene	ND		0.0051	0.0020	mg/Kg	☼	07/16/17 09:00	07/16/17 12:43	1
Toluene	ND		0.0051	0.0017	mg/Kg	☼	07/16/17 09:00	07/16/17 12:43	1
trans-1,2-Dichloroethene	ND		0.0051	0.0026	mg/Kg	☼	07/16/17 09:00	07/16/17 12:43	1
1,1,1-Trichloroethane	ND		0.0051	0.0026	mg/Kg	☼	07/16/17 09:00	07/16/17 12:43	1
Trichloroethene	ND		0.0051	0.0015	mg/Kg	☼	07/16/17 09:00	07/16/17 12:43	1
1,2,4-Trimethylbenzene	ND		0.0051	0.0014	mg/Kg	☼	07/16/17 09:00	07/16/17 12:43	1
1,3,5-Trimethylbenzene	ND		0.0051	0.0018	mg/Kg	☼	07/16/17 09:00	07/16/17 12:43	1
Vinyl chloride	ND		0.0051	0.0038	mg/Kg	☼	07/16/17 09:00	07/16/17 12:43	1

Client Sample ID: DUP-3 — Lab Sample ID: 180-68096-21

Date Collected: 07/11/17 00:00 — **Matrix: Solid**
Date Received: 07/12/17 09:10 — **Percent Solids: 91.9**

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	ND		0.010	0.0044	mg/Kg	☼	07/16/17 09:00	07/16/17 12:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*63 - 120*	*07/16/17 09:00*	*07/16/17 12:43*	*1*
Dibromofluoromethane (Surr)	*90*		*68 - 121*	*07/16/17 09:00*	*07/16/17 12:43*	*1*
1,2-Dichloroethane-d4 (Surr)	*82*		*52 - 124*	*07/16/17 09:00*	*07/16/17 12:43*	*1*
Toluene-d8 (Surr)	*118*		*72 - 127*	*07/16/17 09:00*	*07/16/17 12:43*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**8.1**		0.1	0.1	%			07/12/17 16:42	1
Percent Solids	**91.9**		0.1	0.1	%			07/12/17 16:42	1

Client Sample ID: DUP-4 — Lab Sample ID: 180-68096-22

Date Collected: 07/11/17 00:00 — **Matrix: Solid**
Date Received: 07/12/17 09:10 — **Percent Solids: 91.2**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.014**	**J**	0.036	0.012	mg/Kg	☼	07/13/17 03:37	07/13/17 22:15	5
Acenaphthylene	**0.22**		0.036	0.012	mg/Kg	☼	07/13/17 03:37	07/13/17 22:15	5
Anthracene	**0.22**		0.036	0.013	mg/Kg	☼	07/13/17 03:37	07/13/17 22:15	5
Benzo[a]anthracene	**0.84**		0.036	0.014	mg/Kg	☼	07/13/17 03:37	07/13/17 22:15	5
Benzo[a]pyrene	**0.84**		0.036	0.015	mg/Kg	☼	07/13/17 03:37	07/13/17 22:15	5
Benzo[b]fluoranthene	**0.96**		0.036	0.016	mg/Kg	☼	07/13/17 03:37	07/13/17 22:15	5
Benzo[g,h,i]perylene	**1.0**		0.036	0.016	mg/Kg	☼	07/13/17 03:37	07/13/17 22:15	5
Benzo[k]fluoranthene	**0.40**		0.036	0.013	mg/Kg	☼	07/13/17 03:37	07/13/17 22:15	5
Chrysene	**0.86**		0.036	0.014	mg/Kg	☼	07/13/17 03:37	07/13/17 22:15	5
Dibenz(a,h)anthracene	**0.22**		0.036	0.015	mg/Kg	☼	07/13/17 03:37	07/13/17 22:15	5
Dibenzofuran	**0.061**	**J**	0.18	0.015	mg/Kg	☼	07/13/17 03:37	07/13/17 22:15	5
1,4-Dioxane	ND		0.36	0.027	mg/Kg	☼	07/13/17 03:37	07/13/17 22:15	5
Fluoranthene	**1.3**		0.036	0.014	mg/Kg	☼	07/13/17 03:37	07/13/17 22:15	5
Fluorene	**0.038**		0.036	0.013	mg/Kg	☼	07/13/17 03:37	07/13/17 22:15	5
Hexachlorobenzene	ND		0.036	0.015	mg/Kg	☼	07/13/17 03:37	07/13/17 22:15	5
Indeno[1,2,3-cd]pyrene	**0.89**		0.036	0.014	mg/Kg	☼	07/13/17 03:37	07/13/17 22:15	5
2-Methylphenol	ND		0.18	0.016	mg/Kg	☼	07/13/17 03:37	07/13/17 22:15	5
Methylphenol, 3 & 4	ND		0.18	0.016	mg/Kg	☼	07/13/17 03:37	07/13/17 22:15	5
Naphthalene	**0.22**		0.036	0.013	mg/Kg	☼	07/13/17 03:37	07/13/17 22:15	5
Pentachlorophenol	ND		0.93	0.34	mg/Kg	☼	07/13/17 03:37	07/13/17 22:15	5
Phenanthrene	**0.52**		0.036	0.015	mg/Kg	☼	07/13/17 03:37	07/13/17 22:15	5
Phenol	ND		0.18	0.025	mg/Kg	☼	07/13/17 03:37	07/13/17 22:15	5
Pyrene	**1.1**		0.036	0.016	mg/Kg	☼	07/13/17 03:37	07/13/17 22:15	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*46*		*42 - 100*	*07/13/17 03:37*	*07/13/17 22:15*	*5*
2-Fluorophenol (Surr)	*43*		*21 - 107*	*07/13/17 03:37*	*07/13/17 22:15*	*5*
Nitrobenzene-d5 (Surr)	*51*		*35 - 109*	*07/13/17 03:37*	*07/13/17 22:15*	*5*
Phenol-d5 (Surr)	*42*		*29 - 105*	*07/13/17 03:37*	*07/13/17 22:15*	*5*
Terphenyl-d14 (Surr)	*46*		*36 - 113*	*07/13/17 03:37*	*07/13/17 22:15*	*5*
2,4,6-Tribromophenol (Surr)	*52*		*20 - 134*	*07/13/17 03:37*	*07/13/17 22:15*	*5*

Client Sample ID: DUP-4 — Lab Sample ID: 180-68096-22

Date Collected: 07/11/17 00:00 — Matrix: Solid
Date Received: 07/12/17 09:10 — Percent Solids: 91.2

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.018	0.0096	mg/Kg	☼	07/13/17 03:34	07/14/17 17:08	1
PCB-1221	ND		0.018	0.0094	mg/Kg	☼	07/13/17 03:34	07/14/17 17:08	1
PCB-1232	ND		0.018	0.0072	mg/Kg	☼	07/13/17 03:34	07/14/17 17:08	1
PCB-1242	ND		0.018	0.014	mg/Kg	☼	07/13/17 03:34	07/14/17 17:08	1
PCB-1248	**0.56**		0.018	0.0087	mg/Kg	☼	07/13/17 03:34	07/14/17 17:08	1
PCB-1254	**0.38**		0.018	0.0080	mg/Kg	☼	07/13/17 03:34	07/14/17 17:08	1
PCB-1260	**0.14**		0.018	0.012	mg/Kg	☼	07/13/17 03:34	07/14/17 17:08	1
PCB-1262	ND		0.018	0.013	mg/Kg	☼	07/13/17 03:34	07/14/17 17:08	1
PCB-1268	ND		0.018	0.0055	mg/Kg	☼	07/13/17 03:34	07/14/17 17:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*64*		*23 - 150*	*07/13/17 03:34*	*07/14/17 17:08*	*1*
DCB Decachlorobiphenyl (Surr)	*74*		*23 - 150*	*07/13/17 03:34*	*07/14/17 17:08*	*1*
Tetrachloro-m-xylene (Surr)	*70*		*27 - 138*	*07/13/17 03:34*	*07/14/17 17:08*	*1*
Tetrachloro-m-xylene (Surr)	*62*		*27 - 138*	*07/13/17 03:34*	*07/14/17 17:08*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**8.4**		1.0	0.44	mg/Kg	☼	07/13/17 09:05	07/14/17 13:53	1
Barium	**74**		20	5.4	mg/Kg	☼	07/13/17 09:05	07/14/17 13:53	1
Beryllium	**0.28**	**J**	0.40	0.11	mg/Kg	☼	07/13/17 09:05	07/14/17 13:53	1
Cadmium	**0.20**	**J**	0.50	0.11	mg/Kg	☼	07/13/17 09:05	07/14/17 13:53	1
Chromium	**11**		0.50	0.13	mg/Kg	☼	07/13/17 09:05	07/14/17 13:53	1
Copper	**41**		2.5	0.77	mg/Kg	☼	07/13/17 09:05	07/14/17 13:53	1
Lead	**47**		1.0	0.33	mg/Kg	☼	07/13/17 09:05	07/14/17 13:53	1
Manganese	**310**		1.5	0.41	mg/Kg	☼	07/13/17 09:05	07/14/17 13:53	1
Nickel	**21**		4.0	0.91	mg/Kg	☼	07/13/17 09:05	07/14/17 13:53	1
Selenium	ND		1.0	0.40	mg/Kg	☼	07/13/17 09:05	07/14/17 13:53	1
Silver	ND		0.50	0.17	mg/Kg	☼	07/13/17 09:05	07/14/17 13:53	1
Zinc	**90**		2.0	1.0	mg/Kg	☼	07/13/17 09:05	07/14/17 13:53	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.71**		0.034	0.0077	mg/Kg	☼	07/14/17 11:17	07/17/17 09:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**8.8**		0.1	0.1	%			07/12/17 16:42	1
Percent Solids	**91.2**		0.1	0.1	%			07/12/17 16:42	1
Cyanide, Total	ND		0.53	0.16	mg/Kg	☼	07/13/17 12:02	07/13/17 16:14	1

Client Sample ID: W3, S1, C 71117 — Lab Sample ID: 180-68096-23

Date Collected: 07/11/17 13:25 — Matrix: Solid
Date Received: 07/12/17 09:10 — Percent Solids: 91.3

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.10**		0.072	0.024	mg/Kg	☼	07/13/17 03:37	07/13/17 22:42	10
Acenaphthylene	**0.55**		0.072	0.024	mg/Kg	☼	07/13/17 03:37	07/13/17 22:42	10
Anthracene	**2.3**		0.072	0.026	mg/Kg	☼	07/13/17 03:37	07/13/17 22:42	10
Benzo[a]anthracene	**2.2**		0.072	0.028	mg/Kg	☼	07/13/17 03:37	07/13/17 22:42	10

Client Sample ID: W3, S1, C 71117 **Lab Sample ID: 180-68096-23**
Date Collected: 07/11/17 13:25 **Matrix: Solid**
Date Received: 07/12/17 09:10 **Percent Solids: 91.3**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	**2.0**		0.072	0.030	mg/Kg	☼	07/13/17 03:37	07/13/17 22:42	10
Benzo[b]fluoranthene	**2.2**		0.072	0.031	mg/Kg	☼	07/13/17 03:37	07/13/17 22:42	10
Benzo[g,h,i]perylene	**2.0**		0.072	0.031	mg/Kg	☼	07/13/17 03:37	07/13/17 22:42	10
Benzo[k]fluoranthene	**0.86**		0.072	0.025	mg/Kg	☼	07/13/17 03:37	07/13/17 22:42	10
Chrysene	**2.0**		0.072	0.028	mg/Kg	☼	07/13/17 03:37	07/13/17 22:42	10
Dibenz(a,h)anthracene	**0.38**		0.072	0.030	mg/Kg	☼	07/13/17 03:37	07/13/17 22:42	10
Dibenzofuran	**0.27**	**J**	0.35	0.029	mg/Kg	☼	07/13/17 03:37	07/13/17 22:42	10
1,4-Dioxane	ND		0.72	0.054	mg/Kg	☼	07/13/17 03:37	07/13/17 22:42	10
Fluoranthene	**5.5**		0.072	0.028	mg/Kg	☼	07/13/17 03:37	07/13/17 22:42	10
Fluorene	**0.27**		0.072	0.026	mg/Kg	☼	07/13/17 03:37	07/13/17 22:42	10
Hexachlorobenzene	ND		0.072	0.029	mg/Kg	☼	07/13/17 03:37	07/13/17 22:42	10
Indeno[1,2,3-cd]pyrene	**1.7**		0.072	0.028	mg/Kg	☼	07/13/17 03:37	07/13/17 22:42	10
2-Methylphenol	ND		0.35	0.032	mg/Kg	☼	07/13/17 03:37	07/13/17 22:42	10
Methylphenol, 3 & 4	ND		0.35	0.032	mg/Kg	☼	07/13/17 03:37	07/13/17 22:42	10
Naphthalene	**0.38**		0.072	0.026	mg/Kg	☼	07/13/17 03:37	07/13/17 22:42	10
Pentachlorophenol	ND		1.8	0.68	mg/Kg	☼	07/13/17 03:37	07/13/17 22:42	10
Phenanthrene	**5.0**		0.072	0.030	mg/Kg	☼	07/13/17 03:37	07/13/17 22:42	10
Phenol	ND		0.35	0.048	mg/Kg	☼	07/13/17 03:37	07/13/17 22:42	10
Pyrene	**3.7**		0.072	0.032	mg/Kg	☼	07/13/17 03:37	07/13/17 22:42	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*60*		*42 - 100*	*07/13/17 03:37*	*07/13/17 22:42*	*10*
2-Fluorophenol (Surr)	*54*		*21 - 107*	*07/13/17 03:37*	*07/13/17 22:42*	*10*
Nitrobenzene-d5 (Surr)	*65*		*35 - 109*	*07/13/17 03:37*	*07/13/17 22:42*	*10*
Phenol-d5 (Surr)	*51*		*29 - 105*	*07/13/17 03:37*	*07/13/17 22:42*	*10*
Terphenyl-d14 (Surr)	*51*		*36 - 113*	*07/13/17 03:37*	*07/13/17 22:42*	*10*
2,4,6-Tribromophenol (Surr)	*53*		*20 - 134*	*07/13/17 03:37*	*07/13/17 22:42*	*10*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.018	0.0095	mg/Kg	☼	07/13/17 03:34	07/14/17 17:28	1
PCB-1221	ND		0.018	0.0093	mg/Kg	☼	07/13/17 03:34	07/14/17 17:28	1
PCB-1232	ND		0.018	0.0071	mg/Kg	☼	07/13/17 03:34	07/14/17 17:28	1
PCB-1242	ND		0.018	0.014	mg/Kg	☼	07/13/17 03:34	07/14/17 17:28	1
PCB-1248	**0.67**		0.018	0.0085	mg/Kg	☼	07/13/17 03:34	07/14/17 17:28	1
PCB-1254	**0.47**		0.018	0.0078	mg/Kg	☼	07/13/17 03:34	07/14/17 17:28	1
PCB-1260	**0.17**		0.018	0.012	mg/Kg	☼	07/13/17 03:34	07/14/17 17:28	1
PCB-1262	ND		0.018	0.013	mg/Kg	☼	07/13/17 03:34	07/14/17 17:28	1
PCB-1268	ND		0.018	0.0055	mg/Kg	☼	07/13/17 03:34	07/14/17 17:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*80*		*23 - 150*	*07/13/17 03:34*	*07/14/17 17:28*	*1*
DCB Decachlorobiphenyl (Surr)	*91*		*23 - 150*	*07/13/17 03:34*	*07/14/17 17:28*	*1*
Tetrachloro-m-xylene (Surr)	*84*		*27 - 138*	*07/13/17 03:34*	*07/14/17 17:28*	*1*
Tetrachloro-m-xylene (Surr)	*75*		*27 - 138*	*07/13/17 03:34*	*07/14/17 17:28*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**6.9**		1.1	0.50	mg/Kg	☼	07/13/17 09:05	07/14/17 13:58	1
Barium	**79**		23	6.1	mg/Kg	☼	07/13/17 09:05	07/14/17 13:58	1

Client Sample ID: W3, S1, C 71117 — Lab Sample ID: 180-68096-23

Date Collected: 07/11/17 13:25 — **Matrix: Solid**
Date Received: 07/12/17 09:10 — **Percent Solids: 91.3**

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	0.30	J	0.46	0.12	mg/Kg	☼	07/13/17 09:05	07/14/17 13:58	1
Cadmium	0.22	J	0.57	0.13	mg/Kg	☼	07/13/17 09:05	07/14/17 13:58	1
Chromium	9.6		0.57	0.15	mg/Kg	☼	07/13/17 09:05	07/14/17 13:58	1
Copper	58		2.9	0.88	mg/Kg	☼	07/13/17 09:05	07/14/17 13:58	1
Lead	51		1.1	0.37	mg/Kg	☼	07/13/17 09:05	07/14/17 13:58	1
Manganese	400		1.7	0.46	mg/Kg	☼	07/13/17 09:05	07/14/17 13:58	1
Nickel	16		4.6	1.0	mg/Kg	☼	07/13/17 09:05	07/14/17 13:58	1
Selenium	0.54	J	1.1	0.45	mg/Kg	☼	07/13/17 09:05	07/14/17 13:58	1
Silver	ND		0.57	0.19	mg/Kg	☼	07/13/17 09:05	07/14/17 13:58	1
Zinc	83		2.3	1.2	mg/Kg	☼	07/13/17 09:05	07/14/17 13:58	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.65		0.029	0.0066	mg/Kg	☼	07/14/17 11:17	07/17/17 09:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	8.7		0.1	0.1	%			07/12/17 16:42	1
Percent Solids	91.3		0.1	0.1	%			07/12/17 16:42	1
Cyanide, Total	ND		0.53	0.16	mg/Kg	☼	07/13/17 12:02	07/13/17 16:15	1

Client Sample ID: W3, S2, A 71117 — Lab Sample ID: 180-68096-24

Date Collected: 07/11/17 13:45 — **Matrix: Solid**
Date Received: 07/12/17 09:10 — **Percent Solids: 91.6**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.021	0.0033	mg/Kg	☼	07/16/17 09:00	07/16/17 13:05	1
Benzene	ND		0.0052	0.0020	mg/Kg	☼	07/16/17 09:00	07/16/17 13:05	1
2-Butanone (MEK)	ND		0.0052	0.0030	mg/Kg	☼	07/16/17 09:00	07/16/17 13:05	1
Carbon tetrachloride	ND		0.0052	0.0034	mg/Kg	☼	07/16/17 09:00	07/16/17 13:05	1
Chlorobenzene	ND		0.0052	0.0016	mg/Kg	☼	07/16/17 09:00	07/16/17 13:05	1
Chloroform	ND		0.0052	0.0022	mg/Kg	☼	07/16/17 09:00	07/16/17 13:05	1
cis-1,2-Dichloroethene	ND		0.0052	0.0016	mg/Kg	☼	07/16/17 09:00	07/16/17 13:05	1
1,2-Dichlorobenzene	ND		0.0052	0.0042	mg/Kg	☼	07/16/17 09:00	07/16/17 13:05	1
1,3-Dichlorobenzene	ND		0.0052	0.0017	mg/Kg	☼	07/16/17 09:00	07/16/17 13:05	1
1,4-Dichlorobenzene	ND		0.0052	0.0011	mg/Kg	☼	07/16/17 09:00	07/16/17 13:05	1
1,1-Dichloroethane	ND		0.0052	0.0019	mg/Kg	☼	07/16/17 09:00	07/16/17 13:05	1
1,2-Dichloroethane	ND		0.0052	0.0015	mg/Kg	☼	07/16/17 09:00	07/16/17 13:05	1
1,1-Dichloroethene	ND		0.0052	0.0030	mg/Kg	☼	07/16/17 09:00	07/16/17 13:05	1
Ethylbenzene	ND		0.0052	0.0022	mg/Kg	☼	07/16/17 09:00	07/16/17 13:05	1
Methylene Chloride	ND		0.0052	0.0024	mg/Kg	☼	07/16/17 09:00	07/16/17 13:05	1
Methyl tert-butyl ether	ND		0.0052	0.0038	mg/Kg	☼	07/16/17 09:00	07/16/17 13:05	1
n-Butylbenzene	ND		0.0052	0.0039	mg/Kg	☼	07/16/17 09:00	07/16/17 13:05	1
N-Propylbenzene	ND		0.0052	0.0022	mg/Kg	☼	07/16/17 09:00	07/16/17 13:05	1
sec-Butylbenzene	ND		0.0052	0.0025	mg/Kg	☼	07/16/17 09:00	07/16/17 13:05	1
tert-Butylbenzene	ND		0.0052	0.0019	mg/Kg	☼	07/16/17 09:00	07/16/17 13:05	1
Tetrachloroethene	ND		0.0052	0.0021	mg/Kg	☼	07/16/17 09:00	07/16/17 13:05	1
Toluene	ND		0.0052	0.0017	mg/Kg	☼	07/16/17 09:00	07/16/17 13:05	1
trans-1,2-Dichloroethene	ND		0.0052	0.0026	mg/Kg	☼	07/16/17 09:00	07/16/17 13:05	1

Client Sample ID: W3, S2, A 71117 — Lab Sample ID: 180-68096-24

Date Collected: 07/11/17 13:45 — **Matrix: Solid**
Date Received: 07/12/17 09:10 — **Percent Solids: 91.6**

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.0052	0.0026	mg/Kg	☼	07/16/17 09:00	07/16/17 13:05	1
Trichloroethene	ND		0.0052	0.0016	mg/Kg	☼	07/16/17 09:00	07/16/17 13:05	1
1,2,4-Trimethylbenzene	ND		0.0052	0.0014	mg/Kg	☼	07/16/17 09:00	07/16/17 13:05	1
1,3,5-Trimethylbenzene	ND		0.0052	0.0018	mg/Kg	☼	07/16/17 09:00	07/16/17 13:05	1
Vinyl chloride	ND		0.0052	0.0038	mg/Kg	☼	07/16/17 09:00	07/16/17 13:05	1
Xylenes, Total	ND		0.010	0.0045	mg/Kg	☼	07/16/17 09:00	07/16/17 13:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*63 - 120*	*07/16/17 09:00*	*07/16/17 13:05*	*1*
Dibromofluoromethane (Surr)	*87*		*68 - 121*	*07/16/17 09:00*	*07/16/17 13:05*	*1*
1,2-Dichloroethane-d4 (Surr)	*78*		*52 - 124*	*07/16/17 09:00*	*07/16/17 13:05*	*1*
Toluene-d8 (Surr)	*113*		*72 - 127*	*07/16/17 09:00*	*07/16/17 13:05*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**8.4**		0.1	0.1	%			07/12/17 16:42	1
Percent Solids	**91.6**		0.1	0.1	%			07/12/17 16:42	1

Client Sample ID: W3, S2, B 71117 — Lab Sample ID: 180-68096-25

Date Collected: 07/11/17 13:50 — **Matrix: Solid**
Date Received: 07/12/17 09:10 — **Percent Solids: 92.3**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.020	0.0031	mg/Kg	☼	07/16/17 09:00	07/16/17 13:28	1
Benzene	ND		0.0050	0.0020	mg/Kg	☼	07/16/17 09:00	07/16/17 13:28	1
2-Butanone (MEK)	ND		0.0050	0.0029	mg/Kg	☼	07/16/17 09:00	07/16/17 13:28	1
Carbon tetrachloride	ND		0.0050	0.0033	mg/Kg	☼	07/16/17 09:00	07/16/17 13:28	1
Chlorobenzene	ND		0.0050	0.0016	mg/Kg	☼	07/16/17 09:00	07/16/17 13:28	1
Chloroform	ND		0.0050	0.0021	mg/Kg	☼	07/16/17 09:00	07/16/17 13:28	1
cis-1,2-Dichloroethene	ND		0.0050	0.0016	mg/Kg	☼	07/16/17 09:00	07/16/17 13:28	1
1,2-Dichlorobenzene	ND		0.0050	0.0040	mg/Kg	☼	07/16/17 09:00	07/16/17 13:28	1
1,3-Dichlorobenzene	ND		0.0050	0.0016	mg/Kg	☼	07/16/17 09:00	07/16/17 13:28	1
1,4-Dichlorobenzene	ND		0.0050	0.0010	mg/Kg	☼	07/16/17 09:00	07/16/17 13:28	1
1,1-Dichloroethane	ND		0.0050	0.0018	mg/Kg	☼	07/16/17 09:00	07/16/17 13:28	1
1,2-Dichloroethane	ND		0.0050	0.0014	mg/Kg	☼	07/16/17 09:00	07/16/17 13:28	1
1,1-Dichloroethene	ND		0.0050	0.0028	mg/Kg	☼	07/16/17 09:00	07/16/17 13:28	1
Ethylbenzene	ND		0.0050	0.0021	mg/Kg	☼	07/16/17 09:00	07/16/17 13:28	1
Methylene Chloride	ND		0.0050	0.0024	mg/Kg	☼	07/16/17 09:00	07/16/17 13:28	1
Methyl tert-butyl ether	ND		0.0050	0.0037	mg/Kg	☼	07/16/17 09:00	07/16/17 13:28	1
n-Butylbenzene	ND		0.0050	0.0038	mg/Kg	☼	07/16/17 09:00	07/16/17 13:28	1
N-Propylbenzene	ND		0.0050	0.0021	mg/Kg	☼	07/16/17 09:00	07/16/17 13:28	1
sec-Butylbenzene	ND		0.0050	0.0024	mg/Kg	☼	07/16/17 09:00	07/16/17 13:28	1
tert-Butylbenzene	ND		0.0050	0.0018	mg/Kg	☼	07/16/17 09:00	07/16/17 13:28	1
Tetrachloroethene	ND		0.0050	0.0020	mg/Kg	☼	07/16/17 09:00	07/16/17 13:28	1
Toluene	ND		0.0050	0.0017	mg/Kg	☼	07/16/17 09:00	07/16/17 13:28	1
trans-1,2-Dichloroethene	ND		0.0050	0.0025	mg/Kg	☼	07/16/17 09:00	07/16/17 13:28	1
1,1,1-Trichloroethane	ND		0.0050	0.0025	mg/Kg	☼	07/16/17 09:00	07/16/17 13:28	1
Trichloroethene	ND		0.0050	0.0015	mg/Kg	☼	07/16/17 09:00	07/16/17 13:28	1
1,2,4-Trimethylbenzene	ND		0.0050	0.0013	mg/Kg	☼	07/16/17 09:00	07/16/17 13:28	1

Client Sample ID: W3, S2, B 71117 — Lab Sample ID: 180-68096-25

Date Collected: 07/11/17 13:50 — **Matrix: Solid**
Date Received: 07/12/17 09:10 — **Percent Solids: 92.3**

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	ND		0.0050	0.0017	mg/Kg	☼	07/16/17 09:00	07/16/17 13:28	1
Vinyl chloride	ND		0.0050	0.0037	mg/Kg	☼	07/16/17 09:00	07/16/17 13:28	1
Xylenes, Total	ND		0.010	0.0043	mg/Kg	☼	07/16/17 09:00	07/16/17 13:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*63 - 120*	*07/16/17 09:00*	*07/16/17 13:28*	*1*
Dibromofluoromethane (Surr)	*93*		*68 - 121*	*07/16/17 09:00*	*07/16/17 13:28*	*1*
1,2-Dichloroethane-d4 (Surr)	*85*		*52 - 124*	*07/16/17 09:00*	*07/16/17 13:28*	*1*
Toluene-d8 (Surr)	*126*		*72 - 127*	*07/16/17 09:00*	*07/16/17 13:28*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**7.7**		0.1	0.1	%			07/12/17 16:42	1
Percent Solids	**92.3**		0.1	0.1	%			07/12/17 16:42	1

Client Sample ID: W3, S2, C 71117 — Lab Sample ID: 180-68096-26

Date Collected: 07/11/17 13:55 — **Matrix: Solid**
Date Received: 07/12/17 09:10 — **Percent Solids: 91.5**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.072	0.024	mg/Kg	☼	07/13/17 03:37	07/17/17 11:48	10
Acenaphthylene	**0.10**		0.072	0.024	mg/Kg	☼	07/13/17 03:37	07/17/17 11:48	10
Anthracene	**0.12**		0.072	0.027	mg/Kg	☼	07/13/17 03:37	07/17/17 11:48	10
Benzo[a]anthracene	**0.53**		0.072	0.029	mg/Kg	☼	07/13/17 03:37	07/17/17 11:48	10
Benzo[a]pyrene	**0.56**		0.072	0.030	mg/Kg	☼	07/13/17 03:37	07/17/17 11:48	10
Benzo[b]fluoranthene	**0.77**		0.072	0.031	mg/Kg	☼	07/13/17 03:37	07/17/17 11:48	10
Benzo[g,h,i]perylene	**0.54**		0.072	0.031	mg/Kg	☼	07/13/17 03:37	07/17/17 11:48	10
Benzo[k]fluoranthene	**0.21**		0.072	0.025	mg/Kg	☼	07/13/17 03:37	07/17/17 11:48	10
Chrysene	**0.51**		0.072	0.028	mg/Kg	☼	07/13/17 03:37	07/17/17 11:48	10
Dibenz(a,h)anthracene	**0.12**		0.072	0.030	mg/Kg	☼	07/13/17 03:37	07/17/17 11:48	10
Dibenzofuran	**0.064**	**J**	0.36	0.029	mg/Kg	☼	07/13/17 03:37	07/17/17 11:48	10
1,4-Dioxane	ND		0.72	0.054	mg/Kg	☼	07/13/17 03:37	07/17/17 11:48	10
Fluoranthene	**0.73**		0.072	0.028	mg/Kg	☼	07/13/17 03:37	07/17/17 11:48	10
Fluorene	**0.033**	**J**	0.072	0.026	mg/Kg	☼	07/13/17 03:37	07/17/17 11:48	10
Hexachlorobenzene	ND		0.072	0.029	mg/Kg	☼	07/13/17 03:37	07/17/17 11:48	10
Indeno[1,2,3-cd]pyrene	**0.48**		0.072	0.028	mg/Kg	☼	07/13/17 03:37	07/17/17 11:48	10
2-Methylphenol	ND		0.36	0.032	mg/Kg	☼	07/13/17 03:37	07/17/17 11:48	10
Methylphenol, 3 & 4	ND		0.36	0.032	mg/Kg	☼	07/13/17 03:37	07/17/17 11:48	10
Naphthalene	**0.16**		0.072	0.026	mg/Kg	☼	07/13/17 03:37	07/17/17 11:48	10
Pentachlorophenol	ND		1.8	0.68	mg/Kg	☼	07/13/17 03:37	07/17/17 11:48	10
Phenanthrene	**0.39**		0.072	0.030	mg/Kg	☼	07/13/17 03:37	07/17/17 11:48	10
Phenol	ND		0.36	0.049	mg/Kg	☼	07/13/17 03:37	07/17/17 11:48	10
Pyrene	**0.88**		0.072	0.032	mg/Kg	☼	07/13/17 03:37	07/17/17 11:48	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*53*		*42 - 100*	*07/13/17 03:37*	*07/17/17 11:48*	*10*
2-Fluorophenol (Surr)	*51*		*21 - 107*	*07/13/17 03:37*	*07/17/17 11:48*	*10*
Nitrobenzene-d5 (Surr)	*61*		*35 - 109*	*07/13/17 03:37*	*07/17/17 11:48*	*10*
Phenol-d5 (Surr)	*50*		*29 - 105*	*07/13/17 03:37*	*07/17/17 11:48*	*10*

Client Sample ID: W3, S2, C 71117 **Lab Sample ID: 180-68096-26**
Date Collected: 07/11/17 13:55 **Matrix: Solid**
Date Received: 07/12/17 09:10 **Percent Solids: 91.5**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14 (Surr)	*63*		*36 - 113*	*07/13/17 03:37*	*07/17/17 11:48*	*10*
2,4,6-Tribromophenol (Surr)	*48*		*20 - 134*	*07/13/17 03:37*	*07/17/17 11:48*	*10*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.018	0.0095	mg/Kg	☼	07/13/17 03:34	07/14/17 17:49	1
PCB-1221	ND		0.018	0.0093	mg/Kg	☼	07/13/17 03:34	07/14/17 17:49	1
PCB-1232	ND		0.018	0.0071	mg/Kg	☼	07/13/17 03:34	07/14/17 17:49	1
PCB-1242	ND		0.018	0.014	mg/Kg	☼	07/13/17 03:34	07/14/17 17:49	1
PCB-1248	**0.65**		0.018	0.0086	mg/Kg	☼	07/13/17 03:34	07/14/17 17:49	1
PCB-1254	**0.44**		0.018	0.0079	mg/Kg	☼	07/13/17 03:34	07/14/17 17:49	1
PCB-1260	**0.15**		0.018	0.012	mg/Kg	☼	07/13/17 03:34	07/14/17 17:49	1
PCB-1262	ND		0.018	0.013	mg/Kg	☼	07/13/17 03:34	07/14/17 17:49	1
PCB-1268	ND		0.018	0.0055	mg/Kg	☼	07/13/17 03:34	07/14/17 17:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*69*		*23 - 150*	*07/13/17 03:34*	*07/14/17 17:49*	*1*
DCB Decachlorobiphenyl (Surr)	*78*		*23 - 150*	*07/13/17 03:34*	*07/14/17 17:49*	*1*
Tetrachloro-m-xylene (Surr)	*72*		*27 - 138*	*07/13/17 03:34*	*07/14/17 17:49*	*1*
Tetrachloro-m-xylene (Surr)	*65*		*27 - 138*	*07/13/17 03:34*	*07/14/17 17:49*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**6.8**		1.1	0.48	mg/Kg	☼	07/13/17 09:05	07/14/17 14:03	1
Barium	**69**		22	5.8	mg/Kg	☼	07/13/17 09:05	07/14/17 14:03	1
Beryllium	**0.27**	**J**	0.43	0.11	mg/Kg	☼	07/13/17 09:05	07/14/17 14:03	1
Cadmium	**0.13**	**J**	0.54	0.12	mg/Kg	☼	07/13/17 09:05	07/14/17 14:03	1
Chromium	**8.1**		0.54	0.14	mg/Kg	☼	07/13/17 09:05	07/14/17 14:03	1
Copper	**35**		2.7	0.83	mg/Kg	☼	07/13/17 09:05	07/14/17 14:03	1
Lead	**46**		1.1	0.36	mg/Kg	☼	07/13/17 09:05	07/14/17 14:03	1
Manganese	**320**		1.6	0.44	mg/Kg	☼	07/13/17 09:05	07/14/17 14:03	1
Nickel	**14**		4.3	0.97	mg/Kg	☼	07/13/17 09:05	07/14/17 14:03	1
Selenium	ND		1.1	0.43	mg/Kg	☼	07/13/17 09:05	07/14/17 14:03	1
Silver	ND		0.54	0.18	mg/Kg	☼	07/13/17 09:05	07/14/17 14:03	1
Zinc	**69**		2.2	1.1	mg/Kg	☼	07/13/17 09:05	07/14/17 14:03	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.61**		0.030	0.0067	mg/Kg	☼	07/14/17 11:17	07/17/17 09:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**8.5**		0.1	0.1	%			07/12/17 16:42	1
Percent Solids	**91.5**		0.1	0.1	%			07/12/17 16:42	1
Cyanide, Total	**0.18**	**J**	0.53	0.16	mg/Kg	☼	07/13/17 12:02	07/13/17 16:17	1

Client Sample ID: W3, S3, A 71117 — Lab Sample ID: 180-68096-27

Date Collected: 07/11/17 14:15 — **Matrix: Solid**
Date Received: 07/12/17 09:10 — **Percent Solids: 91.8**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.024	0.0038	mg/Kg	☼	07/16/17 09:00	07/16/17 13:50	1
Benzene	ND		0.0060	0.0024	mg/Kg	☼	07/16/17 09:00	07/16/17 13:50	1
2-Butanone (MEK)	ND		0.0060	0.0035	mg/Kg	☼	07/16/17 09:00	07/16/17 13:50	1
Carbon tetrachloride	ND		0.0060	0.0040	mg/Kg	☼	07/16/17 09:00	07/16/17 13:50	1
Chlorobenzene	ND		0.0060	0.0019	mg/Kg	☼	07/16/17 09:00	07/16/17 13:50	1
Chloroform	ND		0.0060	0.0025	mg/Kg	☼	07/16/17 09:00	07/16/17 13:50	1
cis-1,2-Dichloroethene	ND		0.0060	0.0019	mg/Kg	☼	07/16/17 09:00	07/16/17 13:50	1
1,2-Dichlorobenzene	ND		0.0060	0.0048	mg/Kg	☼	07/16/17 09:00	07/16/17 13:50	1
1,3-Dichlorobenzene	ND		0.0060	0.0019	mg/Kg	☼	07/16/17 09:00	07/16/17 13:50	1
1,4-Dichlorobenzene	ND		0.0060	0.0012	mg/Kg	☼	07/16/17 09:00	07/16/17 13:50	1
1,1-Dichloroethane	ND		0.0060	0.0022	mg/Kg	☼	07/16/17 09:00	07/16/17 13:50	1
1,2-Dichloroethane	ND		0.0060	0.0017	mg/Kg	☼	07/16/17 09:00	07/16/17 13:50	1
1,1-Dichloroethene	ND		0.0060	0.0034	mg/Kg	☼	07/16/17 09:00	07/16/17 13:50	1
Ethylbenzene	ND		0.0060	0.0026	mg/Kg	☼	07/16/17 09:00	07/16/17 13:50	1
Methylene Chloride	ND		0.0060	0.0028	mg/Kg	☼	07/16/17 09:00	07/16/17 13:50	1
Methyl tert-butyl ether	ND		0.0060	0.0044	mg/Kg	☼	07/16/17 09:00	07/16/17 13:50	1
n-Butylbenzene	ND		0.0060	0.0045	mg/Kg	☼	07/16/17 09:00	07/16/17 13:50	1
N-Propylbenzene	ND		0.0060	0.0025	mg/Kg	☼	07/16/17 09:00	07/16/17 13:50	1
sec-Butylbenzene	ND		0.0060	0.0029	mg/Kg	☼	07/16/17 09:00	07/16/17 13:50	1
tert-Butylbenzene	ND		0.0060	0.0022	mg/Kg	☼	07/16/17 09:00	07/16/17 13:50	1
Tetrachloroethene	ND		0.0060	0.0024	mg/Kg	☼	07/16/17 09:00	07/16/17 13:50	1
Toluene	ND		0.0060	0.0020	mg/Kg	☼	07/16/17 09:00	07/16/17 13:50	1
trans-1,2-Dichloroethene	ND		0.0060	0.0030	mg/Kg	☼	07/16/17 09:00	07/16/17 13:50	1
1,1,1-Trichloroethane	ND		0.0060	0.0030	mg/Kg	☼	07/16/17 09:00	07/16/17 13:50	1
Trichloroethene	ND		0.0060	0.0018	mg/Kg	☼	07/16/17 09:00	07/16/17 13:50	1
1,2,4-Trimethylbenzene	ND		0.0060	0.0016	mg/Kg	☼	07/16/17 09:00	07/16/17 13:50	1
1,3,5-Trimethylbenzene	ND		0.0060	0.0021	mg/Kg	☼	07/16/17 09:00	07/16/17 13:50	1
Vinyl chloride	ND		0.0060	0.0044	mg/Kg	☼	07/16/17 09:00	07/16/17 13:50	1
Xylenes, Total	ND		0.012	0.0052	mg/Kg	☼	07/16/17 09:00	07/16/17 13:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*63 - 120*	*07/16/17 09:00*	*07/16/17 13:50*	*1*
Dibromofluoromethane (Surr)	*88*		*68 - 121*	*07/16/17 09:00*	*07/16/17 13:50*	*1*
1,2-Dichloroethane-d4 (Surr)	*78*		*52 - 124*	*07/16/17 09:00*	*07/16/17 13:50*	*1*
Toluene-d8 (Surr)	*118*		*72 - 127*	*07/16/17 09:00*	*07/16/17 13:50*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**8.2**		0.1	0.1	%			07/12/17 16:42	1
Percent Solids	**91.8**		0.1	0.1	%			07/12/17 16:42	1

Client Sample ID: W3, S3, B 71117 — Lab Sample ID: 180-68096-28

Date Collected: 07/11/17 14:20 — **Matrix: Solid**
Date Received: 07/12/17 09:10 — **Percent Solids: 89.1**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.022	0.0035	mg/Kg	☼	07/16/17 09:00	07/16/17 14:13	1
Benzene	ND		0.0055	0.0022	mg/Kg	☼	07/16/17 09:00	07/16/17 14:13	1
2-Butanone (MEK)	ND		0.0055	0.0032	mg/Kg	☼	07/16/17 09:00	07/16/17 14:13	1

Client Sample ID: W3, S3, B 71117 — Lab Sample ID: 180-68096-28

Date Collected: 07/11/17 14:20 — **Matrix: Solid**
Date Received: 07/12/17 09:10 — **Percent Solids: 89.1**

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	ND		0.0055	0.0037	mg/Kg	☼	07/16/17 09:00	07/16/17 14:13	1
Chlorobenzene	ND		0.0055	0.0017	mg/Kg	☼	07/16/17 09:00	07/16/17 14:13	1
Chloroform	ND		0.0055	0.0023	mg/Kg	☼	07/16/17 09:00	07/16/17 14:13	1
cis-1,2-Dichloroethene	ND		0.0055	0.0017	mg/Kg	☼	07/16/17 09:00	07/16/17 14:13	1
1,2-Dichlorobenzene	ND		0.0055	0.0044	mg/Kg	☼	07/16/17 09:00	07/16/17 14:13	1
1,3-Dichlorobenzene	ND		0.0055	0.0018	mg/Kg	☼	07/16/17 09:00	07/16/17 14:13	1
1,4-Dichlorobenzene	ND		0.0055	0.0011	mg/Kg	☼	07/16/17 09:00	07/16/17 14:13	1
1,1-Dichloroethane	ND		0.0055	0.0020	mg/Kg	☼	07/16/17 09:00	07/16/17 14:13	1
1,2-Dichloroethane	ND		0.0055	0.0016	mg/Kg	☼	07/16/17 09:00	07/16/17 14:13	1
1,1-Dichloroethene	ND		0.0055	0.0031	mg/Kg	☼	07/16/17 09:00	07/16/17 14:13	1
Ethylbenzene	ND		0.0055	0.0024	mg/Kg	☼	07/16/17 09:00	07/16/17 14:13	1
Methylene Chloride	ND		0.0055	0.0026	mg/Kg	☼	07/16/17 09:00	07/16/17 14:13	1
Methyl tert-butyl ether	ND		0.0055	0.0041	mg/Kg	☼	07/16/17 09:00	07/16/17 14:13	1
n-Butylbenzene	ND		0.0055	0.0042	mg/Kg	☼	07/16/17 09:00	07/16/17 14:13	1
N-Propylbenzene	ND		0.0055	0.0023	mg/Kg	☼	07/16/17 09:00	07/16/17 14:13	1
sec-Butylbenzene	ND		0.0055	0.0027	mg/Kg	☼	07/16/17 09:00	07/16/17 14:13	1
tert-Butylbenzene	ND		0.0055	0.0020	mg/Kg	☼	07/16/17 09:00	07/16/17 14:13	1
Tetrachloroethene	ND		0.0055	0.0022	mg/Kg	☼	07/16/17 09:00	07/16/17 14:13	1
Toluene	ND		0.0055	0.0019	mg/Kg	☼	07/16/17 09:00	07/16/17 14:13	1
trans-1,2-Dichloroethene	ND		0.0055	0.0028	mg/Kg	☼	07/16/17 09:00	07/16/17 14:13	1
1,1,1-Trichloroethane	ND		0.0055	0.0028	mg/Kg	☼	07/16/17 09:00	07/16/17 14:13	1
Trichloroethene	ND		0.0055	0.0017	mg/Kg	☼	07/16/17 09:00	07/16/17 14:13	1
1,2,4-Trimethylbenzene	ND		0.0055	0.0015	mg/Kg	☼	07/16/17 09:00	07/16/17 14:13	1
1,3,5-Trimethylbenzene	ND		0.0055	0.0019	mg/Kg	☼	07/16/17 09:00	07/16/17 14:13	1
Vinyl chloride	ND		0.0055	0.0041	mg/Kg	☼	07/16/17 09:00	07/16/17 14:13	1
Xylenes, Total	ND		0.011	0.0048	mg/Kg	☼	07/16/17 09:00	07/16/17 14:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*63 - 120*	*07/16/17 09:00*	*07/16/17 14:13*	*1*
Dibromofluoromethane (Surr)	*89*		*68 - 121*	*07/16/17 09:00*	*07/16/17 14:13*	*1*
1,2-Dichloroethane-d4 (Surr)	*82*		*52 - 124*	*07/16/17 09:00*	*07/16/17 14:13*	*1*
Toluene-d8 (Surr)	*118*		*72 - 127*	*07/16/17 09:00*	*07/16/17 14:13*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**10.9**		0.1	0.1	%			07/12/17 16:42	1
Percent Solids	**89.1**		0.1	0.1	%			07/12/17 16:42	1

Client Sample ID: W3, S3, C 71117 — Lab Sample ID: 180-68096-29

Date Collected: 07/11/17 14:25 — **Matrix: Solid**
Date Received: 07/12/17 09:10 — **Percent Solids: 90.8**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.073	0.025	mg/Kg	☼	07/13/17 03:37	07/17/17 12:16	10
Acenaphthylene	**0.13**		0.073	0.025	mg/Kg	☼	07/13/17 03:37	07/17/17 12:16	10
Anthracene	**0.15**		0.073	0.027	mg/Kg	☼	07/13/17 03:37	07/17/17 12:16	10
Benzo[a]anthracene	**0.64**		0.073	0.029	mg/Kg	☼	07/13/17 03:37	07/17/17 12:16	10
Benzo[a]pyrene	**0.72**		0.073	0.030	mg/Kg	☼	07/13/17 03:37	07/17/17 12:16	10
Benzo[b]fluoranthene	**0.84**		0.073	0.032	mg/Kg	☼	07/13/17 03:37	07/17/17 12:16	10

Client Sample ID: W3, S3, C 71117 **Lab Sample ID: 180-68096-29**
Date Collected: 07/11/17 14:25 **Matrix: Solid**
Date Received: 07/12/17 09:10 **Percent Solids: 90.8**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	**0.73**		0.073	0.032	mg/Kg	☼	07/13/17 03:37	07/17/17 12:16	10
Benzo[k]fluoranthene	**0.38**		0.073	0.025	mg/Kg	☼	07/13/17 03:37	07/17/17 12:16	10
Chrysene	**0.56**		0.073	0.028	mg/Kg	☼	07/13/17 03:37	07/17/17 12:16	10
Dibenz(a,h)anthracene	**0.19**		0.073	0.030	mg/Kg	☼	07/13/17 03:37	07/17/17 12:16	10
Dibenzofuran	**0.070**	**J**	0.36	0.029	mg/Kg	☼	07/13/17 03:37	07/17/17 12:16	10
1,4-Dioxane	ND		0.73	0.055	mg/Kg	☼	07/13/17 03:37	07/17/17 12:16	10
Fluoranthene	**0.92**		0.073	0.029	mg/Kg	☼	07/13/17 03:37	07/17/17 12:16	10
Fluorene	**0.042**	**J**	0.073	0.026	mg/Kg	☼	07/13/17 03:37	07/17/17 12:16	10
Hexachlorobenzene	ND		0.073	0.029	mg/Kg	☼	07/13/17 03:37	07/17/17 12:16	10
Indeno[1,2,3-cd]pyrene	**0.61**		0.073	0.028	mg/Kg	☼	07/13/17 03:37	07/17/17 12:16	10
2-Methylphenol	ND		0.36	0.032	mg/Kg	☼	07/13/17 03:37	07/17/17 12:16	10
Methylphenol, 3 & 4	ND		0.36	0.032	mg/Kg	☼	07/13/17 03:37	07/17/17 12:16	10
Naphthalene	**0.18**		0.073	0.026	mg/Kg	☼	07/13/17 03:37	07/17/17 12:16	10
Pentachlorophenol	ND		1.9	0.69	mg/Kg	☼	07/13/17 03:37	07/17/17 12:16	10
Phenanthrene	**0.46**		0.073	0.030	mg/Kg	☼	07/13/17 03:37	07/17/17 12:16	10
Phenol	ND		0.36	0.049	mg/Kg	☼	07/13/17 03:37	07/17/17 12:16	10
Pyrene	**1.1**		0.073	0.032	mg/Kg	☼	07/13/17 03:37	07/17/17 12:16	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*59*		*42 - 100*	*07/13/17 03:37*	*07/17/17 12:16*	*10*
2-Fluorophenol (Surr)	*54*		*21 - 107*	*07/13/17 03:37*	*07/17/17 12:16*	*10*
Nitrobenzene-d5 (Surr)	*61*		*35 - 109*	*07/13/17 03:37*	*07/17/17 12:16*	*10*
Phenol-d5 (Surr)	*56*		*29 - 105*	*07/13/17 03:37*	*07/17/17 12:16*	*10*
Terphenyl-d14 (Surr)	*68*		*36 - 113*	*07/13/17 03:37*	*07/17/17 12:16*	*10*
2,4,6-Tribromophenol (Surr)	*56*		*20 - 134*	*07/13/17 03:37*	*07/17/17 12:16*	*10*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.018	0.0096	mg/Kg	☼	07/13/17 03:34	07/14/17 18:09	1
PCB-1221	ND		0.018	0.0094	mg/Kg	☼	07/13/17 03:34	07/14/17 18:09	1
PCB-1232	ND		0.018	0.0072	mg/Kg	☼	07/13/17 03:34	07/14/17 18:09	1
PCB-1242	ND		0.018	0.014	mg/Kg	☼	07/13/17 03:34	07/14/17 18:09	1
PCB-1248	**0.88**		0.018	0.0086	mg/Kg	☼	07/13/17 03:34	07/14/17 18:09	1
PCB-1254	**0.59**		0.018	0.0079	mg/Kg	☼	07/13/17 03:34	07/14/17 18:09	1
PCB-1260	**0.17**		0.018	0.012	mg/Kg	☼	07/13/17 03:34	07/14/17 18:09	1
PCB-1262	ND		0.018	0.013	mg/Kg	☼	07/13/17 03:34	07/14/17 18:09	1
PCB-1268	ND		0.018	0.0055	mg/Kg	☼	07/13/17 03:34	07/14/17 18:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*69*		*23 - 150*	*07/13/17 03:34*	*07/14/17 18:09*	*1*
DCB Decachlorobiphenyl (Surr)	*80*		*23 - 150*	*07/13/17 03:34*	*07/14/17 18:09*	*1*
Tetrachloro-m-xylene (Surr)	*77*		*27 - 138*	*07/13/17 03:34*	*07/14/17 18:09*	*1*
Tetrachloro-m-xylene (Surr)	*69*		*27 - 138*	*07/13/17 03:34*	*07/14/17 18:09*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**5.6**		1.0	0.45	mg/Kg	☼	07/13/17 09:05	07/14/17 14:08	1
Barium	**77**		21	5.5	mg/Kg	☼	07/13/17 09:05	07/14/17 14:08	1
Beryllium	**0.27**	**J**	0.41	0.11	mg/Kg	☼	07/13/17 09:05	07/14/17 14:08	1
Cadmium	**0.17**	**J**	0.51	0.12	mg/Kg	☼	07/13/17 09:05	07/14/17 14:08	1

Client Sample ID: W3, S3, C 71117 — Lab Sample ID: 180-68096-29

Date Collected: 07/11/17 14:25 — **Matrix: Solid**
Date Received: 07/12/17 09:10 — **Percent Solids: 90.8**

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	8.2		0.51	0.13	mg/Kg	☼	07/13/17 09:05	07/14/17 14:08	1
Copper	38		2.6	0.79	mg/Kg	☼	07/13/17 09:05	07/14/17 14:08	1
Lead	42		1.0	0.34	mg/Kg	☼	07/13/17 09:05	07/14/17 14:08	1
Manganese	340		1.5	0.42	mg/Kg	☼	07/13/17 09:05	07/14/17 14:08	1
Nickel	16		4.1	0.93	mg/Kg	☼	07/13/17 09:05	07/14/17 14:08	1
Selenium	0.90	J	1.0	0.41	mg/Kg	☼	07/13/17 09:05	07/14/17 14:08	1
Silver	ND		0.51	0.17	mg/Kg	☼	07/13/17 09:05	07/14/17 14:08	1
Zinc	75		2.1	1.0	mg/Kg	☼	07/13/17 09:05	07/14/17 14:08	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.48		0.037	0.0083	mg/Kg	☼	07/14/17 11:17	07/17/17 09:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.2		0.1	0.1	%			07/12/17 16:42	1
Percent Solids	90.8		0.1	0.1	%			07/12/17 16:42	1
Cyanide, Total	0.93		0.55	0.17	mg/Kg	☼	07/13/17 12:02	07/13/17 16:19	1

Client Sample ID: W3, S4, A 71117 — Lab Sample ID: 180-68096-30

Date Collected: 07/11/17 14:45 — **Matrix: Solid**
Date Received: 07/12/17 09:10 — **Percent Solids: 90.1**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.021	0.0032	mg/Kg	☼	07/16/17 09:00	07/16/17 19:55	1
Benzene	ND		0.0051	0.0020	mg/Kg	☼	07/16/17 09:00	07/16/17 19:55	1
2-Butanone (MEK)	ND		0.0051	0.0030	mg/Kg	☼	07/16/17 09:00	07/16/17 19:55	1
Carbon tetrachloride	ND		0.0051	0.0034	mg/Kg	☼	07/16/17 09:00	07/16/17 19:55	1
Chlorobenzene	ND		0.0051	0.0016	mg/Kg	☼	07/16/17 09:00	07/16/17 19:55	1
Chloroform	ND		0.0051	0.0022	mg/Kg	☼	07/16/17 09:00	07/16/17 19:55	1
cis-1,2-Dichloroethene	ND		0.0051	0.0016	mg/Kg	☼	07/16/17 09:00	07/16/17 19:55	1
1,2-Dichlorobenzene	ND		0.0051	0.0041	mg/Kg	☼	07/16/17 09:00	07/16/17 19:55	1
1,3-Dichlorobenzene	ND		0.0051	0.0016	mg/Kg	☼	07/16/17 09:00	07/16/17 19:55	1
1,4-Dichlorobenzene	ND		0.0051	0.0010	mg/Kg	☼	07/16/17 09:00	07/16/17 19:55	1
1,1-Dichloroethane	ND		0.0051	0.0019	mg/Kg	☼	07/16/17 09:00	07/16/17 19:55	1
1,2-Dichloroethane	ND		0.0051	0.0015	mg/Kg	☼	07/16/17 09:00	07/16/17 19:55	1
1,1-Dichloroethene	ND		0.0051	0.0029	mg/Kg	☼	07/16/17 09:00	07/16/17 19:55	1
Ethylbenzene	ND		0.0051	0.0022	mg/Kg	☼	07/16/17 09:00	07/16/17 19:55	1
Methylene Chloride	ND		0.0051	0.0024	mg/Kg	☼	07/16/17 09:00	07/16/17 19:55	1
Methyl tert-butyl ether	ND		0.0051	0.0038	mg/Kg	☼	07/16/17 09:00	07/16/17 19:55	1
n-Butylbenzene	ND		0.0051	0.0039	mg/Kg	☼	07/16/17 09:00	07/16/17 19:55	1
N-Propylbenzene	ND		0.0051	0.0022	mg/Kg	☼	07/16/17 09:00	07/16/17 19:55	1
sec-Butylbenzene	ND		0.0051	0.0025	mg/Kg	☼	07/16/17 09:00	07/16/17 19:55	1
tert-Butylbenzene	ND		0.0051	0.0019	mg/Kg	☼	07/16/17 09:00	07/16/17 19:55	1
Tetrachloroethene	ND		0.0051	0.0021	mg/Kg	☼	07/16/17 09:00	07/16/17 19:55	1
Toluene	ND		0.0051	0.0017	mg/Kg	☼	07/16/17 09:00	07/16/17 19:55	1
trans-1,2-Dichloroethene	ND		0.0051	0.0026	mg/Kg	☼	07/16/17 09:00	07/16/17 19:55	1
1,1,1-Trichloroethane	ND		0.0051	0.0026	mg/Kg	☼	07/16/17 09:00	07/16/17 19:55	1
Trichloroethene	ND		0.0051	0.0015	mg/Kg	☼	07/16/17 09:00	07/16/17 19:55	1

Client Sample ID: W3, S4, A 71117 — Lab Sample ID: 180-68096-30

Date Collected: 07/11/17 14:45 — **Matrix: Solid**
Date Received: 07/12/17 09:10 — **Percent Solids: 90.1**

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	ND		0.0051	0.0014	mg/Kg	☼	07/16/17 09:00	07/16/17 19:55	1
1,3,5-Trimethylbenzene	ND		0.0051	0.0018	mg/Kg	☼	07/16/17 09:00	07/16/17 19:55	1
Vinyl chloride	ND		0.0051	0.0038	mg/Kg	☼	07/16/17 09:00	07/16/17 19:55	1
Xylenes, Total	ND		0.010	0.0044	mg/Kg	☼	07/16/17 09:00	07/16/17 19:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*63 - 120*	*07/16/17 09:00*	*07/16/17 19:55*	*1*
Dibromofluoromethane (Surr)	*96*		*68 - 121*	*07/16/17 09:00*	*07/16/17 19:55*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*52 - 124*	*07/16/17 09:00*	*07/16/17 19:55*	*1*
Toluene-d8 (Surr)	*106*		*72 - 127*	*07/16/17 09:00*	*07/16/17 19:55*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.9**		0.1	0.1	%			07/12/17 16:42	1
Percent Solids	**90.1**		0.1	0.1	%			07/12/17 16:42	1

Client Sample ID: W3, S4, B 71117 — Lab Sample ID: 180-68096-31

Date Collected: 07/11/17 14:50 — **Matrix: Solid**
Date Received: 07/12/17 09:10 — **Percent Solids: 91.9**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.018	0.0028	mg/Kg	☼	07/16/17 09:00	07/16/17 14:59	1
Benzene	ND		0.0044	0.0017	mg/Kg	☼	07/16/17 09:00	07/16/17 14:59	1
2-Butanone (MEK)	ND		0.0044	0.0026	mg/Kg	☼	07/16/17 09:00	07/16/17 14:59	1
Carbon tetrachloride	ND		0.0044	0.0029	mg/Kg	☼	07/16/17 09:00	07/16/17 14:59	1
Chlorobenzene	ND		0.0044	0.0014	mg/Kg	☼	07/16/17 09:00	07/16/17 14:59	1
Chloroform	ND		0.0044	0.0019	mg/Kg	☼	07/16/17 09:00	07/16/17 14:59	1
cis-1,2-Dichloroethene	ND		0.0044	0.0014	mg/Kg	☼	07/16/17 09:00	07/16/17 14:59	1
1,2-Dichlorobenzene	ND		0.0044	0.0035	mg/Kg	☼	07/16/17 09:00	07/16/17 14:59	1
1,3-Dichlorobenzene	ND		0.0044	0.0014	mg/Kg	☼	07/16/17 09:00	07/16/17 14:59	1
1,4-Dichlorobenzene	ND		0.0044	0.00090	mg/Kg	☼	07/16/17 09:00	07/16/17 14:59	1
1,1-Dichloroethane	ND		0.0044	0.0016	mg/Kg	☼	07/16/17 09:00	07/16/17 14:59	1
1,2-Dichloroethane	ND		0.0044	0.0013	mg/Kg	☼	07/16/17 09:00	07/16/17 14:59	1
1,1-Dichloroethene	ND		0.0044	0.0025	mg/Kg	☼	07/16/17 09:00	07/16/17 14:59	1
Ethylbenzene	ND		0.0044	0.0019	mg/Kg	☼	07/16/17 09:00	07/16/17 14:59	1
Methylene Chloride	ND		0.0044	0.0021	mg/Kg	☼	07/16/17 09:00	07/16/17 14:59	1
Methyl tert-butyl ether	ND		0.0044	0.0032	mg/Kg	☼	07/16/17 09:00	07/16/17 14:59	1
n-Butylbenzene	ND		0.0044	0.0033	mg/Kg	☼	07/16/17 09:00	07/16/17 14:59	1
N-Propylbenzene	ND		0.0044	0.0019	mg/Kg	☼	07/16/17 09:00	07/16/17 14:59	1
sec-Butylbenzene	ND		0.0044	0.0021	mg/Kg	☼	07/16/17 09:00	07/16/17 14:59	1
tert-Butylbenzene	ND		0.0044	0.0016	mg/Kg	☼	07/16/17 09:00	07/16/17 14:59	1
Tetrachloroethene	ND		0.0044	0.0018	mg/Kg	☼	07/16/17 09:00	07/16/17 14:59	1
Toluene	ND		0.0044	0.0015	mg/Kg	☼	07/16/17 09:00	07/16/17 14:59	1
trans-1,2-Dichloroethene	ND		0.0044	0.0022	mg/Kg	☼	07/16/17 09:00	07/16/17 14:59	1
1,1,1-Trichloroethane	ND		0.0044	0.0022	mg/Kg	☼	07/16/17 09:00	07/16/17 14:59	1
Trichloroethene	ND		0.0044	0.0013	mg/Kg	☼	07/16/17 09:00	07/16/17 14:59	1
1,2,4-Trimethylbenzene	ND		0.0044	0.0012	mg/Kg	☼	07/16/17 09:00	07/16/17 14:59	1
1,3,5-Trimethylbenzene	ND		0.0044	0.0015	mg/Kg	☼	07/16/17 09:00	07/16/17 14:59	1
Vinyl chloride	ND		0.0044	0.0032	mg/Kg	☼	07/16/17 09:00	07/16/17 14:59	1

Client Sample ID: W3, S4, B 71117 — Lab Sample ID: 180-68096-31

Date Collected: 07/11/17 14:50 — **Matrix: Solid**
Date Received: 07/12/17 09:10 — **Percent Solids: 91.9**

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	ND		0.0088	0.0038	mg/Kg	☼	07/16/17 09:00	07/16/17 14:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*84*		*63 - 120*	*07/16/17 09:00*	*07/16/17 14:59*	*1*
Dibromofluoromethane (Surr)	*89*		*68 - 121*	*07/16/17 09:00*	*07/16/17 14:59*	*1*
1,2-Dichloroethane-d4 (Surr)	*79*		*52 - 124*	*07/16/17 09:00*	*07/16/17 14:59*	*1*
Toluene-d8 (Surr)	*121*		*72 - 127*	*07/16/17 09:00*	*07/16/17 14:59*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**8.1**		0.1	0.1	%			07/12/17 16:42	1
Percent Solids	**91.9**		0.1	0.1	%			07/12/17 16:42	1

Client Sample ID: W3, S4, C 71117 — Lab Sample ID: 180-68096-32

Date Collected: 07/11/17 14:55 — **Matrix: Solid**
Date Received: 07/12/17 09:10 — **Percent Solids: 90.4**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.074	0.025	mg/Kg	☼	07/13/17 03:37	07/17/17 12:43	10
Acenaphthylene	**0.15**		0.074	0.025	mg/Kg	☼	07/13/17 03:37	07/17/17 12:43	10
Anthracene	**0.19**		0.074	0.027	mg/Kg	☼	07/13/17 03:37	07/17/17 12:43	10
Benzo[a]anthracene	**0.74**		0.074	0.029	mg/Kg	☼	07/13/17 03:37	07/17/17 12:43	10
Benzo[a]pyrene	**0.73**		0.074	0.031	mg/Kg	☼	07/13/17 03:37	07/17/17 12:43	10
Benzo[b]fluoranthene	**0.96**		0.074	0.032	mg/Kg	☼	07/13/17 03:37	07/17/17 12:43	10
Benzo[g,h,i]perylene	**0.75**		0.074	0.032	mg/Kg	☼	07/13/17 03:37	07/17/17 12:43	10
Benzo[k]fluoranthene	**0.31**		0.074	0.026	mg/Kg	☼	07/13/17 03:37	07/17/17 12:43	10
Chrysene	**0.70**		0.074	0.029	mg/Kg	☼	07/13/17 03:37	07/17/17 12:43	10
Dibenz(a,h)anthracene	**0.14**		0.074	0.031	mg/Kg	☼	07/13/17 03:37	07/17/17 12:43	10
Dibenzofuran	**0.068**	**J**	0.37	0.030	mg/Kg	☼	07/13/17 03:37	07/17/17 12:43	10
1,4-Dioxane	ND		0.74	0.056	mg/Kg	☼	07/13/17 03:37	07/17/17 12:43	10
Fluoranthene	**1.0**		0.074	0.029	mg/Kg	☼	07/13/17 03:37	07/17/17 12:43	10
Fluorene	**0.041**	**J**	0.074	0.026	mg/Kg	☼	07/13/17 03:37	07/17/17 12:43	10
Hexachlorobenzene	ND		0.074	0.030	mg/Kg	☼	07/13/17 03:37	07/17/17 12:43	10
Indeno[1,2,3-cd]pyrene	**0.66**		0.074	0.029	mg/Kg	☼	07/13/17 03:37	07/17/17 12:43	10
2-Methylphenol	ND		0.37	0.033	mg/Kg	☼	07/13/17 03:37	07/17/17 12:43	10
Methylphenol, 3 & 4	ND		0.37	0.033	mg/Kg	☼	07/13/17 03:37	07/17/17 12:43	10
Naphthalene	**0.23**		0.074	0.027	mg/Kg	☼	07/13/17 03:37	07/17/17 12:43	10
Pentachlorophenol	ND		1.9	0.70	mg/Kg	☼	07/13/17 03:37	07/17/17 12:43	10
Phenanthrene	**0.57**		0.074	0.031	mg/Kg	☼	07/13/17 03:37	07/17/17 12:43	10
Phenol	ND		0.37	0.050	mg/Kg	☼	07/13/17 03:37	07/17/17 12:43	10
Pyrene	**1.2**		0.074	0.033	mg/Kg	☼	07/13/17 03:37	07/17/17 12:43	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*60*		*42 - 100*	*07/13/17 03:37*	*07/17/17 12:43*	*10*
2-Fluorophenol (Surr)	*58*		*21 - 107*	*07/13/17 03:37*	*07/17/17 12:43*	*10*
Nitrobenzene-d5 (Surr)	*64*		*35 - 109*	*07/13/17 03:37*	*07/17/17 12:43*	*10*
Phenol-d5 (Surr)	*53*		*29 - 105*	*07/13/17 03:37*	*07/17/17 12:43*	*10*
Terphenyl-d14 (Surr)	*63*		*36 - 113*	*07/13/17 03:37*	*07/17/17 12:43*	*10*
2,4,6-Tribromophenol (Surr)	*55*		*20 - 134*	*07/13/17 03:37*	*07/17/17 12:43*	*10*

Client Sample ID: W3, S4, C 71117

Lab Sample ID: 180-68096-32
Date Collected: 07/11/17 14:55
Matrix: Solid
Date Received: 07/12/17 09:10
Percent Solids: 90.4

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.018	0.0096	mg/Kg	☼	07/13/17 03:34	07/14/17 18:29	1
PCB-1221	ND		0.018	0.0094	mg/Kg	☼	07/13/17 03:34	07/14/17 18:29	1
PCB-1232	ND		0.018	0.0072	mg/Kg	☼	07/13/17 03:34	07/14/17 18:29	1
PCB-1242	ND		0.018	0.014	mg/Kg	☼	07/13/17 03:34	07/14/17 18:29	1
PCB-1248	**0.93**		0.018	0.0086	mg/Kg	☼	07/13/17 03:34	07/14/17 18:29	1
PCB-1254	**0.61**		0.018	0.0079	mg/Kg	☼	07/13/17 03:34	07/14/17 18:29	1
PCB-1260	**0.19**		0.018	0.012	mg/Kg	☼	07/13/17 03:34	07/14/17 18:29	1
PCB-1262	ND		0.018	0.013	mg/Kg	☼	07/13/17 03:34	07/14/17 18:29	1
PCB-1268	ND		0.018	0.0055	mg/Kg	☼	07/13/17 03:34	07/14/17 18:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*76*		*23 - 150*	*07/13/17 03:34*	*07/14/17 18:29*	*1*
DCB Decachlorobiphenyl (Surr)	*85*		*23 - 150*	*07/13/17 03:34*	*07/14/17 18:29*	*1*
Tetrachloro-m-xylene (Surr)	*82*		*27 - 138*	*07/13/17 03:34*	*07/14/17 18:29*	*1*
Tetrachloro-m-xylene (Surr)	*73*		*27 - 138*	*07/13/17 03:34*	*07/14/17 18:29*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**5.8**		1.1	0.48	mg/Kg	☼	07/13/17 09:05	07/14/17 14:13	1
Barium	**79**		22	5.9	mg/Kg	☼	07/13/17 09:05	07/14/17 14:13	1
Beryllium	**0.27**	**J**	0.44	0.11	mg/Kg	☼	07/13/17 09:05	07/14/17 14:13	1
Cadmium	**0.14**	**J**	0.55	0.12	mg/Kg	☼	07/13/17 09:05	07/14/17 14:13	1
Chromium	**8.2**		0.55	0.14	mg/Kg	☼	07/13/17 09:05	07/14/17 14:13	1
Copper	**37**		2.7	0.84	mg/Kg	☼	07/13/17 09:05	07/14/17 14:13	1
Lead	**53**		1.1	0.36	mg/Kg	☼	07/13/17 09:05	07/14/17 14:13	1
Manganese	**400**		1.6	0.44	mg/Kg	☼	07/13/17 09:05	07/14/17 14:13	1
Nickel	**15**		4.4	0.99	mg/Kg	☼	07/13/17 09:05	07/14/17 14:13	1
Selenium	ND		1.1	0.43	mg/Kg	☼	07/13/17 09:05	07/14/17 14:13	1
Silver	ND		0.55	0.18	mg/Kg	☼	07/13/17 09:05	07/14/17 14:13	1
Zinc	**78**		2.2	1.1	mg/Kg	☼	07/13/17 09:05	07/14/17 14:13	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.77**		0.032	0.0072	mg/Kg	☼	07/14/17 11:17	07/17/17 09:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.6**		0.1	0.1	%			07/12/17 16:42	1
Percent Solids	**90.4**		0.1	0.1	%			07/12/17 16:42	1
Cyanide, Total	ND		0.54	0.17	mg/Kg	☼	07/13/17 12:02	07/13/17 16:21	1

Client Sample ID: DUP-5

Lab Sample ID: 180-68096-33
Date Collected: 07/11/17 00:00
Matrix: Solid
Date Received: 07/12/17 09:10
Percent Solids: 90.1

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.020	0.0032	mg/Kg	☼	07/16/17 09:00	07/16/17 15:22	1
Benzene	ND		0.0050	0.0020	mg/Kg	☼	07/16/17 09:00	07/16/17 15:22	1
2-Butanone (MEK)	ND		0.0050	0.0029	mg/Kg	☼	07/16/17 09:00	07/16/17 15:22	1
Carbon tetrachloride	ND		0.0050	0.0033	mg/Kg	☼	07/16/17 09:00	07/16/17 15:22	1

Client Sample ID: DUP-5

Lab Sample ID: 180-68096-33
Date Collected: 07/11/17 00:00
Matrix: Solid
Date Received: 07/12/17 09:10
Percent Solids: 90.1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	ND		0.0050	0.0016	mg/Kg	☼	07/16/17 09:00	07/16/17 15:22	1
Chloroform	ND		0.0050	0.0021	mg/Kg	☼	07/16/17 09:00	07/16/17 15:22	1
cis-1,2-Dichloroethene	ND		0.0050	0.0016	mg/Kg	☼	07/16/17 09:00	07/16/17 15:22	1
1,2-Dichlorobenzene	ND		0.0050	0.0041	mg/Kg	☼	07/16/17 09:00	07/16/17 15:22	1
1,3-Dichlorobenzene	ND		0.0050	0.0016	mg/Kg	☼	07/16/17 09:00	07/16/17 15:22	1
1,4-Dichlorobenzene	ND		0.0050	0.0010	mg/Kg	☼	07/16/17 09:00	07/16/17 15:22	1
1,1-Dichloroethane	ND		0.0050	0.0018	mg/Kg	☼	07/16/17 09:00	07/16/17 15:22	1
1,2-Dichloroethane	ND		0.0050	0.0015	mg/Kg	☼	07/16/17 09:00	07/16/17 15:22	1
1,1-Dichloroethene	ND		0.0050	0.0029	mg/Kg	☼	07/16/17 09:00	07/16/17 15:22	1
Ethylbenzene	ND		0.0050	0.0022	mg/Kg	☼	07/16/17 09:00	07/16/17 15:22	1
Methylene Chloride	ND		0.0050	0.0024	mg/Kg	☼	07/16/17 09:00	07/16/17 15:22	1
Methyl tert-butyl ether	ND		0.0050	0.0037	mg/Kg	☼	07/16/17 09:00	07/16/17 15:22	1
n-Butylbenzene	ND		0.0050	0.0038	mg/Kg	☼	07/16/17 09:00	07/16/17 15:22	1
N-Propylbenzene	ND		0.0050	0.0021	mg/Kg	☼	07/16/17 09:00	07/16/17 15:22	1
sec-Butylbenzene	ND		0.0050	0.0025	mg/Kg	☼	07/16/17 09:00	07/16/17 15:22	1
tert-Butylbenzene	ND		0.0050	0.0018	mg/Kg	☼	07/16/17 09:00	07/16/17 15:22	1
Tetrachloroethene	ND		0.0050	0.0020	mg/Kg	☼	07/16/17 09:00	07/16/17 15:22	1
Toluene	ND		0.0050	0.0017	mg/Kg	☼	07/16/17 09:00	07/16/17 15:22	1
trans-1,2-Dichloroethene	ND		0.0050	0.0026	mg/Kg	☼	07/16/17 09:00	07/16/17 15:22	1
1,1,1-Trichloroethane	ND		0.0050	0.0025	mg/Kg	☼	07/16/17 09:00	07/16/17 15:22	1
Trichloroethene	ND		0.0050	0.0015	mg/Kg	☼	07/16/17 09:00	07/16/17 15:22	1
1,2,4-Trimethylbenzene	ND		0.0050	0.0014	mg/Kg	☼	07/16/17 09:00	07/16/17 15:22	1
1,3,5-Trimethylbenzene	ND		0.0050	0.0017	mg/Kg	☼	07/16/17 09:00	07/16/17 15:22	1
Vinyl chloride	ND		0.0050	0.0037	mg/Kg	☼	07/16/17 09:00	07/16/17 15:22	1
Xylenes, Total	ND		0.010	0.0043	mg/Kg	☼	07/16/17 09:00	07/16/17 15:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*85*		*63 - 120*	*07/16/17 09:00*	*07/16/17 15:22*	*1*
Dibromofluoromethane (Surr)	*90*		*68 - 121*	*07/16/17 09:00*	*07/16/17 15:22*	*1*
1,2-Dichloroethane-d4 (Surr)	*83*		*52 - 124*	*07/16/17 09:00*	*07/16/17 15:22*	*1*
Toluene-d8 (Surr)	*121*		*72 - 127*	*07/16/17 09:00*	*07/16/17 15:22*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.9**		0.1	0.1	%			07/12/17 16:42	1
Percent Solids	**90.1**		0.1	0.1	%			07/12/17 16:42	1

Client Sample ID: W3, S5, A 71117

Lab Sample ID: 180-68096-34
Date Collected: 07/11/17 15:15
Matrix: Solid
Date Received: 07/12/17 09:10
Percent Solids: 91.1

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.021	0.0032	mg/Kg	☼	07/13/17 10:30	07/14/17 17:23	1
Benzene	ND		0.0052	0.0020	mg/Kg	☼	07/13/17 10:30	07/14/17 17:23	1
2-Butanone (MEK)	ND		0.0052	0.0030	mg/Kg	☼	07/13/17 10:30	07/14/17 17:23	1
Carbon tetrachloride	ND		0.0052	0.0034	mg/Kg	☼	07/13/17 10:30	07/14/17 17:23	1
Chlorobenzene	ND		0.0052	0.0016	mg/Kg	☼	07/13/17 10:30	07/14/17 17:23	1
Chloroform	ND		0.0052	0.0022	mg/Kg	☼	07/13/17 10:30	07/14/17 17:23	1
cis-1,2-Dichloroethene	ND		0.0052	0.0016	mg/Kg	☼	07/13/17 10:30	07/14/17 17:23	1

Client Sample ID: W3, S5, A 71117 — Lab Sample ID: 180-68096-34

Date Collected: 07/11/17 15:15 — **Matrix: Solid**
Date Received: 07/12/17 09:10 — **Percent Solids: 91.1**

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		0.0052	0.0041	mg/Kg	☼	07/13/17 10:30	07/14/17 17:23	1
1,3-Dichlorobenzene	ND		0.0052	0.0016	mg/Kg	☼	07/13/17 10:30	07/14/17 17:23	1
1,4-Dichlorobenzene	ND		0.0052	0.0011	mg/Kg	☼	07/13/17 10:30	07/14/17 17:23	1
1,1-Dichloroethane	ND		0.0052	0.0019	mg/Kg	☼	07/13/17 10:30	07/14/17 17:23	1
1,2-Dichloroethane	ND		0.0052	0.0015	mg/Kg	☼	07/13/17 10:30	07/14/17 17:23	1
1,1-Dichloroethene	ND		0.0052	0.0029	mg/Kg	☼	07/13/17 10:30	07/14/17 17:23	1
Ethylbenzene	ND		0.0052	0.0022	mg/Kg	☼	07/13/17 10:30	07/14/17 17:23	1
Methylene Chloride	ND		0.0052	0.0024	mg/Kg	☼	07/13/17 10:30	07/14/17 17:23	1
Methyl tert-butyl ether	ND		0.0052	0.0038	mg/Kg	☼	07/13/17 10:30	07/14/17 17:23	1
n-Butylbenzene	ND		0.0052	0.0039	mg/Kg	☼	07/13/17 10:30	07/14/17 17:23	1
N-Propylbenzene	ND		0.0052	0.0022	mg/Kg	☼	07/13/17 10:30	07/14/17 17:23	1
sec-Butylbenzene	ND		0.0052	0.0025	mg/Kg	☼	07/13/17 10:30	07/14/17 17:23	1
tert-Butylbenzene	ND		0.0052	0.0019	mg/Kg	☼	07/13/17 10:30	07/14/17 17:23	1
Tetrachloroethene	ND		0.0052	0.0021	mg/Kg	☼	07/13/17 10:30	07/14/17 17:23	1
Toluene	ND		0.0052	0.0017	mg/Kg	☼	07/13/17 10:30	07/14/17 17:23	1
trans-1,2-Dichloroethene	ND		0.0052	0.0026	mg/Kg	☼	07/13/17 10:30	07/14/17 17:23	1
1,1,1-Trichloroethane	ND		0.0052	0.0026	mg/Kg	☼	07/13/17 10:30	07/14/17 17:23	1
Trichloroethene	ND		0.0052	0.0015	mg/Kg	☼	07/13/17 10:30	07/14/17 17:23	1
1,2,4-Trimethylbenzene	ND		0.0052	0.0014	mg/Kg	☼	07/13/17 10:30	07/14/17 17:23	1
1,3,5-Trimethylbenzene	ND		0.0052	0.0018	mg/Kg	☼	07/13/17 10:30	07/14/17 17:23	1
Vinyl chloride	ND		0.0052	0.0038	mg/Kg	☼	07/13/17 10:30	07/14/17 17:23	1
Xylenes, Total	ND		0.010	0.0044	mg/Kg	☼	07/13/17 10:30	07/14/17 17:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*81*		*63 - 120*	*07/13/17 10:30*	*07/14/17 17:23*	*1*
Dibromofluoromethane (Surr)	*85*		*68 - 121*	*07/13/17 10:30*	*07/14/17 17:23*	*1*
1,2-Dichloroethane-d4 (Surr)	*78*		*52 - 124*	*07/13/17 10:30*	*07/14/17 17:23*	*1*
Toluene-d8 (Surr)	*114*		*72 - 127*	*07/13/17 10:30*	*07/14/17 17:23*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**8.9**		0.1	0.1	%			07/12/17 16:42	1
Percent Solids	**91.1**		0.1	0.1	%			07/12/17 16:42	1

Client Sample ID: W3, S5, B 71117 — Lab Sample ID: 180-68096-35

Date Collected: 07/11/17 15:20 — **Matrix: Solid**
Date Received: 07/12/17 09:10 — **Percent Solids: 92.1**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.025	0.0039	mg/Kg	☼	07/13/17 10:30	07/14/17 17:00	1
Benzene	ND		0.0061	0.0024	mg/Kg	☼	07/13/17 10:30	07/14/17 17:00	1
2-Butanone (MEK)	ND		0.0061	0.0036	mg/Kg	☼	07/13/17 10:30	07/14/17 17:00	1
Carbon tetrachloride	ND		0.0061	0.0041	mg/Kg	☼	07/13/17 10:30	07/14/17 17:00	1
Chlorobenzene	ND		0.0061	0.0019	mg/Kg	☼	07/13/17 10:30	07/14/17 17:00	1
Chloroform	ND		0.0061	0.0026	mg/Kg	☼	07/13/17 10:30	07/14/17 17:00	1
cis-1,2-Dichloroethene	ND		0.0061	0.0019	mg/Kg	☼	07/13/17 10:30	07/14/17 17:00	1
1,2-Dichlorobenzene	ND		0.0061	0.0049	mg/Kg	☼	07/13/17 10:30	07/14/17 17:00	1
1,3-Dichlorobenzene	ND		0.0061	0.0020	mg/Kg	☼	07/13/17 10:30	07/14/17 17:00	1
1,4-Dichlorobenzene	ND		0.0061	0.0013	mg/Kg	☼	07/13/17 10:30	07/14/17 17:00	1

Client Sample ID: W3, S5, B 71117

Lab Sample ID: 180-68096-35
Date Collected: 07/11/17 15:20
Matrix: Solid
Date Received: 07/12/17 09:10
Percent Solids: 92.1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND		0.0061	0.0022	mg/Kg	☼	07/13/17 10:30	07/14/17 17:00	1
1,2-Dichloroethane	ND		0.0061	0.0018	mg/Kg	☼	07/13/17 10:30	07/14/17 17:00	1
1,1-Dichloroethene	ND		0.0061	0.0035	mg/Kg	☼	07/13/17 10:30	07/14/17 17:00	1
Ethylbenzene	ND		0.0061	0.0026	mg/Kg	☼	07/13/17 10:30	07/14/17 17:00	1
Methylene Chloride	ND		0.0061	0.0029	mg/Kg	☼	07/13/17 10:30	07/14/17 17:00	1
Methyl tert-butyl ether	ND		0.0061	0.0045	mg/Kg	☼	07/13/17 10:30	07/14/17 17:00	1
n-Butylbenzene	ND		0.0061	0.0047	mg/Kg	☼	07/13/17 10:30	07/14/17 17:00	1
N-Propylbenzene	ND		0.0061	0.0026	mg/Kg	☼	07/13/17 10:30	07/14/17 17:00	1
sec-Butylbenzene	ND		0.0061	0.0030	mg/Kg	☼	07/13/17 10:30	07/14/17 17:00	1
tert-Butylbenzene	ND		0.0061	0.0022	mg/Kg	☼	07/13/17 10:30	07/14/17 17:00	1
Tetrachloroethene	ND		0.0061	0.0025	mg/Kg	☼	07/13/17 10:30	07/14/17 17:00	1
Toluene	ND		0.0061	0.0021	mg/Kg	☼	07/13/17 10:30	07/14/17 17:00	1
trans-1,2-Dichloroethene	ND		0.0061	0.0031	mg/Kg	☼	07/13/17 10:30	07/14/17 17:00	1
1,1,1-Trichloroethane	ND		0.0061	0.0031	mg/Kg	☼	07/13/17 10:30	07/14/17 17:00	1
Trichloroethene	ND		0.0061	0.0018	mg/Kg	☼	07/13/17 10:30	07/14/17 17:00	1
1,2,4-Trimethylbenzene	ND		0.0061	0.0017	mg/Kg	☼	07/13/17 10:30	07/14/17 17:00	1
1,3,5-Trimethylbenzene	ND		0.0061	0.0021	mg/Kg	☼	07/13/17 10:30	07/14/17 17:00	1
Vinyl chloride	ND		0.0061	0.0045	mg/Kg	☼	07/13/17 10:30	07/14/17 17:00	1
Xylenes, Total	ND		0.012	0.0053	mg/Kg	☼	07/13/17 10:30	07/14/17 17:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*83*		*63 - 120*	*07/13/17 10:30*	*07/14/17 17:00*	*1*
Dibromofluoromethane (Surr)	*85*		*68 - 121*	*07/13/17 10:30*	*07/14/17 17:00*	*1*
1,2-Dichloroethane-d4 (Surr)	*78*		*52 - 124*	*07/13/17 10:30*	*07/14/17 17:00*	*1*
Toluene-d8 (Surr)	*112*		*72 - 127*	*07/13/17 10:30*	*07/14/17 17:00*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**7.9**		0.1	0.1	%			07/12/17 16:42	1
Percent Solids	**92.1**		0.1	0.1	%			07/12/17 16:42	1

Client Sample ID: W3, S5, C 71117

Lab Sample ID: 180-68096-36
Date Collected: 07/11/17 15:25
Matrix: Solid
Date Received: 07/12/17 09:10
Percent Solids: 92.6

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.072	0.024	mg/Kg	☼	07/13/17 03:37	07/17/17 13:11	10
Acenaphthylene	**0.19**		0.072	0.024	mg/Kg	☼	07/13/17 03:37	07/17/17 13:11	10
Anthracene	**0.26**		0.072	0.027	mg/Kg	☼	07/13/17 03:37	07/17/17 13:11	10
Benzo[a]anthracene	**0.96**		0.072	0.029	mg/Kg	☼	07/13/17 03:37	07/17/17 13:11	10
Benzo[a]pyrene	**0.90**		0.072	0.030	mg/Kg	☼	07/13/17 03:37	07/17/17 13:11	10
Benzo[b]fluoranthene	**1.1**		0.072	0.031	mg/Kg	☼	07/13/17 03:37	07/17/17 13:11	10
Benzo[g,h,i]perylene	**0.97**		0.072	0.031	mg/Kg	☼	07/13/17 03:37	07/17/17 13:11	10
Benzo[k]fluoranthene	**0.47**		0.072	0.025	mg/Kg	☼	07/13/17 03:37	07/17/17 13:11	10
Chrysene	**0.88**		0.072	0.028	mg/Kg	☼	07/13/17 03:37	07/17/17 13:11	10
Dibenz(a,h)anthracene	**0.24**		0.072	0.030	mg/Kg	☼	07/13/17 03:37	07/17/17 13:11	10
Dibenzofuran	**0.072**	**J**	0.36	0.029	mg/Kg	☼	07/13/17 03:37	07/17/17 13:11	10
1,4-Dioxane	ND		0.72	0.054	mg/Kg	☼	07/13/17 03:37	07/17/17 13:11	10
Fluoranthene	**1.4**		0.072	0.028	mg/Kg	☼	07/13/17 03:37	07/17/17 13:11	10

Client Sample ID: W3, S5, C 71117 **Lab Sample ID: 180-68096-36**
Date Collected: 07/11/17 15:25 **Matrix: Solid**
Date Received: 07/12/17 09:10 **Percent Solids: 92.6**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	**0.042**	**J**	0.072	0.026	mg/Kg	☼	07/13/17 03:37	07/17/17 13:11	10
Hexachlorobenzene	ND		0.072	0.029	mg/Kg	☼	07/13/17 03:37	07/17/17 13:11	10
Indeno[1,2,3-cd]pyrene	**0.86**		0.072	0.028	mg/Kg	☼	07/13/17 03:37	07/17/17 13:11	10
2-Methylphenol	ND		0.36	0.032	mg/Kg	☼	07/13/17 03:37	07/17/17 13:11	10
Methylphenol, 3 & 4	ND		0.36	0.032	mg/Kg	☼	07/13/17 03:37	07/17/17 13:11	10
Naphthalene	**0.23**		0.072	0.026	mg/Kg	☼	07/13/17 03:37	07/17/17 13:11	10
Pentachlorophenol	ND		1.8	0.68	mg/Kg	☼	07/13/17 03:37	07/17/17 13:11	10
Phenanthrene	**0.82**		0.072	0.030	mg/Kg	☼	07/13/17 03:37	07/17/17 13:11	10
Phenol	ND		0.36	0.049	mg/Kg	☼	07/13/17 03:37	07/17/17 13:11	10
Pyrene	**1.5**		0.072	0.032	mg/Kg	☼	07/13/17 03:37	07/17/17 13:11	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*57*		*42 - 100*	*07/13/17 03:37*	*07/17/17 13:11*	*10*
2-Fluorophenol (Surr)	*49*		*21 - 107*	*07/13/17 03:37*	*07/17/17 13:11*	*10*
Nitrobenzene-d5 (Surr)	*63*		*35 - 109*	*07/13/17 03:37*	*07/17/17 13:11*	*10*
Phenol-d5 (Surr)	*48*		*29 - 105*	*07/13/17 03:37*	*07/17/17 13:11*	*10*
Terphenyl-d14 (Surr)	*68*		*36 - 113*	*07/13/17 03:37*	*07/17/17 13:11*	*10*
2,4,6-Tribromophenol (Surr)	*52*		*20 - 134*	*07/13/17 03:37*	*07/17/17 13:11*	*10*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.018	0.0093	mg/Kg	☼	07/13/17 03:34	07/14/17 18:49	1
PCB-1221	ND		0.018	0.0091	mg/Kg	☼	07/13/17 03:34	07/14/17 18:49	1
PCB-1232	ND		0.018	0.0069	mg/Kg	☼	07/13/17 03:34	07/14/17 18:49	1
PCB-1242	ND		0.018	0.014	mg/Kg	☼	07/13/17 03:34	07/14/17 18:49	1
PCB-1248	**0.93**		0.018	0.0084	mg/Kg	☼	07/13/17 03:34	07/14/17 18:49	1
PCB-1254	**0.61**		0.018	0.0077	mg/Kg	☼	07/13/17 03:34	07/14/17 18:49	1
PCB-1260	**0.18**		0.018	0.012	mg/Kg	☼	07/13/17 03:34	07/14/17 18:49	1
PCB-1262	ND		0.018	0.013	mg/Kg	☼	07/13/17 03:34	07/14/17 18:49	1
PCB-1268	ND		0.018	0.0053	mg/Kg	☼	07/13/17 03:34	07/14/17 18:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*73*		*23 - 150*	*07/13/17 03:34*	*07/14/17 18:49*	*1*
DCB Decachlorobiphenyl (Surr)	*84*		*23 - 150*	*07/13/17 03:34*	*07/14/17 18:49*	*1*
Tetrachloro-m-xylene (Surr)	*81*		*27 - 138*	*07/13/17 03:34*	*07/14/17 18:49*	*1*
Tetrachloro-m-xylene (Surr)	*73*		*27 - 138*	*07/13/17 03:34*	*07/14/17 18:49*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**6.2**		1.0	0.46	mg/Kg	☼	07/13/17 09:05	07/14/17 14:19	1
Barium	**87**		21	5.6	mg/Kg	☼	07/13/17 09:05	07/14/17 14:19	1
Beryllium	**0.29**	**J**	0.42	0.11	mg/Kg	☼	07/13/17 09:05	07/14/17 14:19	1
Cadmium	**0.19**	**J**	0.52	0.12	mg/Kg	☼	07/13/17 09:05	07/14/17 14:19	1
Chromium	**7.8**		0.52	0.14	mg/Kg	☼	07/13/17 09:05	07/14/17 14:19	1
Copper	**30**		2.6	0.81	mg/Kg	☼	07/13/17 09:05	07/14/17 14:19	1
Lead	**46**		1.0	0.34	mg/Kg	☼	07/13/17 09:05	07/14/17 14:19	1
Manganese	**290**		1.6	0.43	mg/Kg	☼	07/13/17 09:05	07/14/17 14:19	1
Nickel	**16**		4.2	0.94	mg/Kg	☼	07/13/17 09:05	07/14/17 14:19	1
Selenium	ND		1.0	0.42	mg/Kg	☼	07/13/17 09:05	07/14/17 14:19	1
Silver	ND		0.52	0.17	mg/Kg	☼	07/13/17 09:05	07/14/17 14:19	1

Client Sample ID: W3, S5, C 71117

Date Collected: 07/11/17 15:25
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-36

Matrix: Solid
Percent Solids: 92.6

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	76		2.1	1.1	mg/Kg	☼	07/13/17 09:05	07/14/17 14:19	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.49		0.035	0.0078	mg/Kg	☼	07/14/17 11:17	07/17/17 09:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	7.4		0.1	0.1	%			07/12/17 16:42	1
Percent Solids	92.6		0.1	0.1	%			07/12/17 16:42	1
Cyanide, Total	ND		0.54	0.17	mg/Kg	☼	07/13/17 12:02	07/13/17 16:22	1

Client Sample ID: TRIP BLANK 1

Date Collected: 07/11/17 00:00
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-37

Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	3.5	J	5.0	3.1	ug/L			07/17/17 08:58	1
Benzene	ND		1.0	0.18	ug/L			07/17/17 08:58	1
2-Butanone (MEK)	ND		5.0	2.6	ug/L			07/17/17 08:58	1
Carbon tetrachloride	ND		1.0	0.56	ug/L			07/17/17 08:58	1
Chlorobenzene	ND		1.0	0.15	ug/L			07/17/17 08:58	1
Chloroform	ND		1.0	0.27	ug/L			07/17/17 08:58	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			07/17/17 08:58	1
1,2-Dichlorobenzene	ND		1.0	0.23	ug/L			07/17/17 08:58	1
1,3-Dichlorobenzene	ND		1.0	0.21	ug/L			07/17/17 08:58	1
1,4-Dichlorobenzene	ND		1.0	0.24	ug/L			07/17/17 08:58	1
1,1-Dichloroethane	ND		1.0	0.34	ug/L			07/17/17 08:58	1
1,2-Dichloroethane	ND		1.0	0.24	ug/L			07/17/17 08:58	1
1,1-Dichloroethene	ND		1.0	0.32	ug/L			07/17/17 08:58	1
Ethylbenzene	ND		1.0	0.25	ug/L			07/17/17 08:58	1
Methylene Chloride	ND		1.0	0.94	ug/L			07/17/17 08:58	1
Methyl tert-butyl ether	ND		1.0	0.20	ug/L			07/17/17 08:58	1
n-Butylbenzene	ND	*	1.0	0.22	ug/L			07/17/17 08:58	1
N-Propylbenzene	ND		1.0	0.20	ug/L			07/17/17 08:58	1
sec-Butylbenzene	ND		1.0	0.22	ug/L			07/17/17 08:58	1
tert-Butylbenzene	ND		1.0	0.17	ug/L			07/17/17 08:58	1
Tetrachloroethene	ND		1.0	0.24	ug/L			07/17/17 08:58	1
Toluene	ND		1.0	0.16	ug/L			07/17/17 08:58	1
trans-1,2-Dichloroethene	ND		1.0	0.20	ug/L			07/17/17 08:58	1
1,1,1-Trichloroethane	ND		1.0	0.27	ug/L			07/17/17 08:58	1
Trichloroethene	ND		1.0	0.20	ug/L			07/17/17 08:58	1
1,2,4-Trimethylbenzene	ND		1.0	0.18	ug/L			07/17/17 08:58	1
1,3,5-Trimethylbenzene	ND		1.0	0.17	ug/L			07/17/17 08:58	1
Vinyl chloride	ND		1.0	0.17	ug/L			07/17/17 08:58	1
Xylenes, Total	ND		2.0	0.27	ug/L			07/17/17 08:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*72 - 120*		*07/17/17 08:58*	*1*

Client Sample ID: TRIP BLANK 1 — Lab Sample ID: 180-68096-37

Date Collected: 07/11/17 00:00 — **Matrix: Water**
Date Received: 07/12/17 09:10

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	*101*		*77 - 127*		*07/17/17 08:58*	*1*
1,2-Dichloroethane-d4 (Surr)	*88*		*72 - 134*		*07/17/17 08:58*	*1*
Toluene-d8 (Surr)	*84*		*80 - 120*		*07/17/17 08:58*	*1*

Client Sample ID: TRIP BLANK 2 — Lab Sample ID: 180-68096-38

Date Collected: 07/11/17 00:00 — **Matrix: Water**
Date Received: 07/12/17 09:10

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		5.0	3.1	ug/L			07/17/17 09:21	1
Benzene	ND		1.0	0.18	ug/L			07/17/17 09:21	1
2-Butanone (MEK)	ND		5.0	2.6	ug/L			07/17/17 09:21	1
Carbon tetrachloride	ND		1.0	0.56	ug/L			07/17/17 09:21	1
Chlorobenzene	ND		1.0	0.15	ug/L			07/17/17 09:21	1
Chloroform	ND		1.0	0.27	ug/L			07/17/17 09:21	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			07/17/17 09:21	1
1,2-Dichlorobenzene	ND		1.0	0.23	ug/L			07/17/17 09:21	1
1,3-Dichlorobenzene	ND		1.0	0.21	ug/L			07/17/17 09:21	1
1,4-Dichlorobenzene	ND		1.0	0.24	ug/L			07/17/17 09:21	1
1,1-Dichloroethane	ND		1.0	0.34	ug/L			07/17/17 09:21	1
1,2-Dichloroethane	ND		1.0	0.24	ug/L			07/17/17 09:21	1
1,1-Dichloroethene	ND		1.0	0.32	ug/L			07/17/17 09:21	1
Ethylbenzene	ND		1.0	0.25	ug/L			07/17/17 09:21	1
Methylene Chloride	ND		1.0	0.94	ug/L			07/17/17 09:21	1
Methyl tert-butyl ether	ND		1.0	0.20	ug/L			07/17/17 09:21	1
n-Butylbenzene	ND	*	1.0	0.22	ug/L			07/17/17 09:21	1
N-Propylbenzene	ND		1.0	0.20	ug/L			07/17/17 09:21	1
sec-Butylbenzene	ND		1.0	0.22	ug/L			07/17/17 09:21	1
tert-Butylbenzene	ND		1.0	0.17	ug/L			07/17/17 09:21	1
Tetrachloroethene	ND		1.0	0.24	ug/L			07/17/17 09:21	1
Toluene	ND		1.0	0.16	ug/L			07/17/17 09:21	1
trans-1,2-Dichloroethene	ND		1.0	0.20	ug/L			07/17/17 09:21	1
1,1,1-Trichloroethane	ND		1.0	0.27	ug/L			07/17/17 09:21	1
Trichloroethene	ND		1.0	0.20	ug/L			07/17/17 09:21	1
1,2,4-Trimethylbenzene	ND		1.0	0.18	ug/L			07/17/17 09:21	1
1,3,5-Trimethylbenzene	ND		1.0	0.17	ug/L			07/17/17 09:21	1
Vinyl chloride	ND		1.0	0.17	ug/L			07/17/17 09:21	1
Xylenes, Total	ND		2.0	0.27	ug/L			07/17/17 09:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*105*		*72 - 120*		*07/17/17 09:21*	*1*
Dibromofluoromethane (Surr)	*100*		*77 - 127*		*07/17/17 09:21*	*1*
1,2-Dichloroethane-d4 (Surr)	*87*		*72 - 134*		*07/17/17 09:21*	*1*
Toluene-d8 (Surr)	*86*		*80 - 120*		*07/17/17 09:21*	*1*

Method: 8260C - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 180-217200/7
Matrix: Water
Analysis Batch: 217200

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		5.0	3.1	ug/L			07/17/17 07:13	1
Benzene	ND		1.0	0.18	ug/L			07/17/17 07:13	1
2-Butanone (MEK)	ND		5.0	2.6	ug/L			07/17/17 07:13	1
Carbon tetrachloride	ND		1.0	0.56	ug/L			07/17/17 07:13	1
Chlorobenzene	ND		1.0	0.15	ug/L			07/17/17 07:13	1
Chloroform	ND		1.0	0.27	ug/L			07/17/17 07:13	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			07/17/17 07:13	1
1,2-Dichlorobenzene	ND		1.0	0.23	ug/L			07/17/17 07:13	1
1,3-Dichlorobenzene	ND		1.0	0.21	ug/L			07/17/17 07:13	1
1,4-Dichlorobenzene	ND		1.0	0.24	ug/L			07/17/17 07:13	1
1,1-Dichloroethane	ND		1.0	0.34	ug/L			07/17/17 07:13	1
1,2-Dichloroethane	ND		1.0	0.24	ug/L			07/17/17 07:13	1
1,1-Dichloroethene	ND		1.0	0.32	ug/L			07/17/17 07:13	1
Ethylbenzene	ND		1.0	0.25	ug/L			07/17/17 07:13	1
Methylene Chloride	ND		1.0	0.94	ug/L			07/17/17 07:13	1
Methyl tert-butyl ether	ND		1.0	0.20	ug/L			07/17/17 07:13	1
n-Butylbenzene	ND		1.0	0.22	ug/L			07/17/17 07:13	1
N-Propylbenzene	ND		1.0	0.20	ug/L			07/17/17 07:13	1
sec-Butylbenzene	ND		1.0	0.22	ug/L			07/17/17 07:13	1
tert-Butylbenzene	ND		1.0	0.17	ug/L			07/17/17 07:13	1
Tetrachloroethene	ND		1.0	0.24	ug/L			07/17/17 07:13	1
Toluene	ND		1.0	0.16	ug/L			07/17/17 07:13	1
trans-1,2-Dichloroethene	ND		1.0	0.20	ug/L			07/17/17 07:13	1
1,1,1-Trichloroethane	ND		1.0	0.27	ug/L			07/17/17 07:13	1
Trichloroethene	ND		1.0	0.20	ug/L			07/17/17 07:13	1
1,2,4-Trimethylbenzene	ND		1.0	0.18	ug/L			07/17/17 07:13	1
1,3,5-Trimethylbenzene	ND		1.0	0.17	ug/L			07/17/17 07:13	1
Vinyl chloride	ND		1.0	0.17	ug/L			07/17/17 07:13	1
Xylenes, Total	ND		2.0	0.27	ug/L			07/17/17 07:13	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*72 - 120*		*07/17/17 07:13*	*1*
Dibromofluoromethane (Surr)	*97*		*77 - 127*		*07/17/17 07:13*	*1*
1,2-Dichloroethane-d4 (Surr)	*85*		*72 - 134*		*07/17/17 07:13*	*1*
Toluene-d8 (Surr)	*85*		*80 - 120*		*07/17/17 07:13*	*1*

Lab Sample ID: LCS 180-217200/4
Matrix: Water
Analysis Batch: 217200

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	20.0	15.6		ug/L		78	10 - 150
Benzene	10.0	11.1		ug/L		111	80 - 121
2-Butanone (MEK)	20.0	16.7		ug/L		84	41 - 150
Carbon tetrachloride	10.0	11.6		ug/L		116	59 - 145
Chlorobenzene	10.0	10.7		ug/L		107	80 - 120
Chloroform	10.0	10.2		ug/L		102	78 - 122
cis-1,2-Dichloroethene	10.0	10.7		ug/L		107	80 - 120

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 180-217200/4
Matrix: Water
Analysis Batch: 217200

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichlorobenzene	10.0	10.6		ug/L		106	80 - 120
1,3-Dichlorobenzene	10.0	10.5		ug/L		105	80 - 120
1,4-Dichlorobenzene	10.0	10.6		ug/L		106	80 - 120
1,1-Dichloroethane	10.0	10.1		ug/L		101	76 - 126
1,2-Dichloroethane	10.0	8.79		ug/L		88	72 - 126
1,1-Dichloroethene	10.0	12.0		ug/L		120	71 - 122
Ethylbenzene	10.0	11.3		ug/L		113	80 - 123
Methylene Chloride	10.0	10.1		ug/L		101	71 - 129
Methyl tert-butyl ether	10.0	9.36		ug/L		94	68 - 124
n-Butylbenzene	10.0	12.1	*	ug/L		121	75 - 120
N-Propylbenzene	10.0	10.8		ug/L		108	78 - 121
sec-Butylbenzene	10.0	11.7		ug/L		117	80 - 121
tert-Butylbenzene	10.0	11.2		ug/L		112	79 - 120
Tetrachloroethene	10.0	12.0		ug/L		120	80 - 122
Toluene	10.0	10.9		ug/L		109	80 - 125
trans-1,2-Dichloroethene	10.0	11.6		ug/L		116	80 - 121
1,1,1-Trichloroethane	10.0	10.8		ug/L		108	57 - 128
Trichloroethene	10.0	11.0		ug/L		110	79 - 120
1,2,4-Trimethylbenzene	10.0	11.2		ug/L		112	80 - 120
1,3,5-Trimethylbenzene	10.0	11.2		ug/L		112	80 - 122
Vinyl chloride	10.0	10.3		ug/L		103	61 - 138
Xylenes, Total	20.0	22.4		ug/L		112	80 - 123

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*72 - 120*
Dibromofluoromethane (Surr)	*104*		*77 - 127*
1,2-Dichloroethane-d4 (Surr)	*93*		*72 - 134*
Toluene-d8 (Surr)	*107*		*80 - 120*

Lab Sample ID: LCSD 180-217200/5
Matrix: Water
Analysis Batch: 217200

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	20.0	13.8		ug/L		69	10 - 150	12	35
Benzene	10.0	10.3		ug/L		103	80 - 121	7	15
2-Butanone (MEK)	20.0	15.1		ug/L		76	41 - 150	10	35
Carbon tetrachloride	10.0	10.2		ug/L		102	59 - 145	13	19
Chlorobenzene	10.0	9.21		ug/L		92	80 - 120	15	15
Chloroform	10.0	9.53		ug/L		95	78 - 122	7	15
cis-1,2-Dichloroethene	10.0	9.89		ug/L		99	80 - 120	8	17
1,2-Dichlorobenzene	10.0	9.73		ug/L		97	80 - 120	9	15
1,3-Dichlorobenzene	10.0	9.69		ug/L		97	80 - 120	8	15
1,4-Dichlorobenzene	10.0	9.55		ug/L		96	80 - 120	10	15
1,1-Dichloroethane	10.0	9.49		ug/L		95	76 - 126	7	22
1,2-Dichloroethane	10.0	8.35		ug/L		83	72 - 126	5	15
1,1-Dichloroethene	10.0	10.8		ug/L		108	71 - 122	10	18
Ethylbenzene	10.0	9.77		ug/L		98	80 - 123	14	15

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 180-217200/5
Matrix: Water
Analysis Batch: 217200

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methylene Chloride			10.0	9.43		ug/L		94	71 - 129	7	19
Methyl tert-butyl ether			10.0	9.04		ug/L		90	68 - 124	4	25
n-Butylbenzene			10.0	10.8		ug/L		108	75 - 120	12	15
N-Propylbenzene			10.0	9.52		ug/L		95	78 - 121	12	15
sec-Butylbenzene			10.0	10.5		ug/L		105	80 - 121	11	15
tert-Butylbenzene			10.0	10.2		ug/L		102	79 - 120	10	15
Tetrachloroethene			10.0	10.4		ug/L		104	80 - 122	14	15
Toluene			10.0	9.46		ug/L		95	80 - 125	14	15
trans-1,2-Dichloroethene			10.0	10.1		ug/L		101	80 - 121	13	18
1,1,1-Trichloroethane			10.0	9.49		ug/L		95	57 - 128	13	19
Trichloroethene			10.0	10.1		ug/L		101	79 - 120	9	15
1,2,4-Trimethylbenzene			10.0	10.2		ug/L		102	80 - 120	10	15
1,3,5-Trimethylbenzene			10.0	10.1		ug/L		101	80 - 122	10	15
Vinyl chloride			10.0	9.05		ug/L		91	61 - 138	12	16
Xylenes, Total			20.0	19.6		ug/L		98	80 - 123	13	15

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*72 - 120*
Dibromofluoromethane (Surr)	*103*		*77 - 127*
1,2-Dichloroethane-d4 (Surr)	*93*		*72 - 134*
Toluene-d8 (Surr)	*99*		*80 - 120*

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 180-216893/9
Matrix: Solid
Analysis Batch: 216893

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.020	0.0032	mg/Kg			07/13/17 08:59	1
Benzene	ND		0.0050	0.0020	mg/Kg			07/13/17 08:59	1
2-Butanone (MEK)	ND		0.0050	0.0029	mg/Kg			07/13/17 08:59	1
Carbon tetrachloride	ND		0.0050	0.0033	mg/Kg			07/13/17 08:59	1
Chlorobenzene	ND		0.0050	0.0016	mg/Kg			07/13/17 08:59	1
Chloroform	ND		0.0050	0.0021	mg/Kg			07/13/17 08:59	1
cis-1,2-Dichloroethene	ND		0.0050	0.0016	mg/Kg			07/13/17 08:59	1
1,2-Dichlorobenzene	ND		0.0050	0.0040	mg/Kg			07/13/17 08:59	1
1,3-Dichlorobenzene	ND		0.0050	0.0016	mg/Kg			07/13/17 08:59	1
1,4-Dichlorobenzene	ND		0.0050	0.0010	mg/Kg			07/13/17 08:59	1
1,1-Dichloroethane	ND		0.0050	0.0018	mg/Kg			07/13/17 08:59	1
1,2-Dichloroethane	ND		0.0050	0.0015	mg/Kg			07/13/17 08:59	1
1,1-Dichloroethene	ND		0.0050	0.0029	mg/Kg			07/13/17 08:59	1
Ethylbenzene	ND		0.0050	0.0022	mg/Kg			07/13/17 08:59	1
Methylene Chloride	ND		0.0050	0.0024	mg/Kg			07/13/17 08:59	1
Methyl tert-butyl ether	ND		0.0050	0.0037	mg/Kg			07/13/17 08:59	1
n-Butylbenzene	ND		0.0050	0.0038	mg/Kg			07/13/17 08:59	1
N-Propylbenzene	ND		0.0050	0.0021	mg/Kg			07/13/17 08:59	1
sec-Butylbenzene	ND		0.0050	0.0024	mg/Kg			07/13/17 08:59	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 180-216893/9
Matrix: Solid
Analysis Batch: 216893

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	ND		0.0050	0.0018	mg/Kg			07/13/17 08:59	1
Tetrachloroethene	ND		0.0050	0.0020	mg/Kg			07/13/17 08:59	1
Toluene	ND		0.0050	0.0017	mg/Kg			07/13/17 08:59	1
trans-1,2-Dichloroethene	ND		0.0050	0.0025	mg/Kg			07/13/17 08:59	1
1,1,1-Trichloroethane	ND		0.0050	0.0025	mg/Kg			07/13/17 08:59	1
Trichloroethene	ND		0.0050	0.0015	mg/Kg			07/13/17 08:59	1
1,2,4-Trimethylbenzene	ND		0.0050	0.0013	mg/Kg			07/13/17 08:59	1
1,3,5-Trimethylbenzene	ND		0.0050	0.0017	mg/Kg			07/13/17 08:59	1
Vinyl chloride	ND		0.0050	0.0037	mg/Kg			07/13/17 08:59	1
Xylenes, Total	ND		0.010	0.0043	mg/Kg			07/13/17 08:59	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*63 - 120*		*07/13/17 08:59*	*1*
Dibromofluoromethane (Surr)	*91*		*68 - 121*		*07/13/17 08:59*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*52 - 124*		*07/13/17 08:59*	*1*
Toluene-d8 (Surr)	*105*		*72 - 127*		*07/13/17 08:59*	*1*

Lab Sample ID: LCS 180-216893/4
Matrix: Solid
Analysis Batch: 216893

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0400	0.0366		mg/Kg		92	20 - 150
Benzene	0.0400	0.0367		mg/Kg		92	77 - 120
2-Butanone (MEK)	0.0400	0.0345		mg/Kg		86	35 - 149
Carbon tetrachloride	0.0400	0.0324		mg/Kg		81	69 - 122
Chlorobenzene	0.0400	0.0352		mg/Kg		88	79 - 120
Chloroform	0.0400	0.0354		mg/Kg		89	72 - 120
cis-1,2-Dichloroethene	0.0400	0.0350		mg/Kg		87	80 - 118
1,2-Dichlorobenzene	0.0400	0.0353		mg/Kg		88	71 - 124
1,3-Dichlorobenzene	0.0400	0.0353		mg/Kg		88	75 - 118
1,4-Dichlorobenzene	0.0400	0.0353		mg/Kg		88	77 - 116
1,1-Dichloroethane	0.0400	0.0382		mg/Kg		95	66 - 124
1,2-Dichloroethane	0.0400	0.0351		mg/Kg		88	61 - 127
1,1-Dichloroethene	0.0400	0.0344		mg/Kg		86	59 - 129
Ethylbenzene	0.0400	0.0349		mg/Kg		87	78 - 125
Methylene Chloride	0.0400	0.0330		mg/Kg		83	58 - 127
Methyl tert-butyl ether	0.0400	0.0343		mg/Kg		86	48 - 132
n-Butylbenzene	0.0400	0.0387		mg/Kg		97	59 - 145
N-Propylbenzene	0.0400	0.0354		mg/Kg		89	80 - 120
sec-Butylbenzene	0.0400	0.0382		mg/Kg		96	70 - 130
tert-Butylbenzene	0.0400	0.0365		mg/Kg		91	74 - 133
Tetrachloroethene	0.0400	0.0357		mg/Kg		89	78 - 129
Toluene	0.0400	0.0377		mg/Kg		94	78 - 124
trans-1,2-Dichloroethene	0.0400	0.0356		mg/Kg		89	77 - 121
1,1,1-Trichloroethane	0.0400	0.0358		mg/Kg		90	67 - 126
Trichloroethene	0.0400	0.0352		mg/Kg		88	76 - 119
1,2,4-Trimethylbenzene	0.0400	0.0371		mg/Kg		93	80 - 121

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 180-216893/4
Matrix: Solid
Analysis Batch: 216893

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,3,5-Trimethylbenzene			0.0400	0.0373		mg/Kg		93	68 - 133		
Vinyl chloride			0.0400	0.0410		mg/Kg		103	63 - 124		
Xylenes, Total			0.0800	0.0698		mg/Kg		87	83 - 126		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*91*		*63 - 120*
Dibromofluoromethane (Surr)	*88*		*68 - 121*
1,2-Dichloroethane-d4 (Surr)	*91*		*52 - 124*
Toluene-d8 (Surr)	*97*		*72 - 127*

Lab Sample ID: 180-68096-4 MS
Matrix: Solid
Analysis Batch: 216893

Client Sample ID: W2, S1, A 71117
Prep Type: Total/NA
Prep Batch: 216904

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Acetone	ND		0.0316	0.0199		mg/Kg	☼	63	20 - 150		
Benzene	ND		0.0316	0.0307		mg/Kg	☼	97	77 - 120		
2-Butanone (MEK)	ND		0.0316	0.0199		mg/Kg	☼	63	35 - 149		
Carbon tetrachloride	ND		0.0316	0.0290		mg/Kg	☼	92	69 - 122		
Chlorobenzene	ND		0.0316	0.0294		mg/Kg	☼	93	79 - 120		
Chloroform	ND		0.0316	0.0295		mg/Kg	☼	93	72 - 120		
cis-1,2-Dichloroethene	ND		0.0316	0.0283		mg/Kg	☼	90	80 - 118		
1,2-Dichlorobenzene	ND		0.0316	0.0293		mg/Kg	☼	93	71 - 124		
1,3-Dichlorobenzene	ND		0.0316	0.0305		mg/Kg	☼	97	75 - 118		
1,4-Dichlorobenzene	ND		0.0316	0.0295		mg/Kg	☼	93	77 - 116		
1,1-Dichloroethane	ND		0.0316	0.0332		mg/Kg	☼	105	66 - 124		
1,2-Dichloroethane	ND		0.0316	0.0251		mg/Kg	☼	79	61 - 127		
1,1-Dichloroethene	ND		0.0316	0.0305		mg/Kg	☼	97	59 - 129		
Ethylbenzene	ND		0.0316	0.0305		mg/Kg	☼	97	78 - 125		
Methylene Chloride	ND		0.0316	0.0264		mg/Kg	☼	83	58 - 127		
Methyl tert-butyl ether	ND		0.0316	0.0232		mg/Kg	☼	73	48 - 132		
n-Butylbenzene	ND		0.0316	0.0323		mg/Kg	☼	102	59 - 145		
N-Propylbenzene	ND		0.0316	0.0352		mg/Kg	☼	111	80 - 120		
sec-Butylbenzene	ND		0.0316	0.0353		mg/Kg	☼	112	70 - 130		
tert-Butylbenzene	ND		0.0316	0.0365		mg/Kg	☼	116	74 - 133		
Tetrachloroethene	ND		0.0316	0.0314		mg/Kg	☼	100	78 - 129		
Toluene	ND		0.0316	0.0333		mg/Kg	☼	106	78 - 124		
trans-1,2-Dichloroethene	ND		0.0316	0.0293		mg/Kg	☼	93	77 - 121		
1,1,1-Trichloroethane	ND		0.0316	0.0314		mg/Kg	☼	99	67 - 126		
Trichloroethene	ND		0.0316	0.0287		mg/Kg	☼	91	76 - 119		
1,2,4-Trimethylbenzene	ND		0.0316	0.0361		mg/Kg	☼	114	80 - 121		
1,3,5-Trimethylbenzene	ND		0.0316	0.0368		mg/Kg	☼	117	68 - 133		
Vinyl chloride	ND		0.0316	0.0355		mg/Kg	☼	112	63 - 124		
Xylenes, Total	ND		0.0632	0.0603		mg/Kg	☼	95	83 - 126		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*90*		*63 - 120*

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 180-68096-4 MS
Matrix: Solid
Analysis Batch: 216893

Client Sample ID: W2, S1, A 71117
Prep Type: Total/NA
Prep Batch: 216904

Surrogate	MS %Recovery	MS Qualifier	Limits
Dibromofluoromethane (Surr)	*94*		*68 - 121*
1,2-Dichloroethane-d4 (Surr)	*81*		*52 - 124*
Toluene-d8 (Surr)	*112*		*72 - 127*

Lab Sample ID: 180-68096-4 MSD
Matrix: Solid
Analysis Batch: 216893

Client Sample ID: W2, S1, A 71117
Prep Type: Total/NA
Prep Batch: 216904

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	ND		0.0338	0.0218		mg/Kg	☼	65	20 - 150	9	40
Benzene	ND		0.0338	0.0354		mg/Kg	☼	105	77 - 120	14	20
2-Butanone (MEK)	ND		0.0338	0.0211		mg/Kg	☼	62	35 - 149	6	36
Carbon tetrachloride	ND		0.0338	0.0343		mg/Kg	☼	102	69 - 122	17	22
Chlorobenzene	ND		0.0338	0.0342		mg/Kg	☼	101	79 - 120	15	20
Chloroform	ND		0.0338	0.0340		mg/Kg	☼	101	72 - 120	14	25
cis-1,2-Dichloroethene	ND		0.0338	0.0327		mg/Kg	☼	97	80 - 118	14	20
1,2-Dichlorobenzene	ND		0.0338	0.0335		mg/Kg	☼	99	71 - 124	13	22
1,3-Dichlorobenzene	ND		0.0338	0.0351		mg/Kg	☼	104	75 - 118	14	20
1,4-Dichlorobenzene	ND		0.0338	0.0340		mg/Kg	☼	101	77 - 116	14	20
1,1-Dichloroethane	ND		0.0338	0.0382		mg/Kg	☼	113	66 - 124	14	23
1,2-Dichloroethane	ND		0.0338	0.0283		mg/Kg	☼	84	61 - 127	12	23
1,1-Dichloroethene	ND		0.0338	0.0351		mg/Kg	☼	104	59 - 129	14	25
Ethylbenzene	ND		0.0338	0.0354		mg/Kg	☼	105	78 - 125	15	21
Methylene Chloride	ND		0.0338	0.0302		mg/Kg	☼	89	58 - 127	13	28
Methyl tert-butyl ether	ND		0.0338	0.0261		mg/Kg	☼	77	48 - 132	12	36
n-Butylbenzene	ND		0.0338	0.0379		mg/Kg	☼	112	59 - 145	16	24
N-Propylbenzene	ND		0.0338	0.0402		mg/Kg	☼	119	80 - 120	13	20
sec-Butylbenzene	ND		0.0338	0.0397		mg/Kg	☼	118	70 - 130	12	21
tert-Butylbenzene	ND		0.0338	0.0409		mg/Kg	☼	121	74 - 133	11	22
Tetrachloroethene	ND		0.0338	0.0369		mg/Kg	☼	109	78 - 129	16	20
Toluene	ND		0.0338	0.0381		mg/Kg	☼	113	78 - 124	13	21
trans-1,2-Dichloroethene	ND		0.0338	0.0341		mg/Kg	☼	101	77 - 121	15	20
1,1,1-Trichloroethane	ND		0.0338	0.0369		mg/Kg	☼	109	67 - 126	16	31
Trichloroethene	ND		0.0338	0.0341		mg/Kg	☼	101	76 - 119	17	21
1,2,4-Trimethylbenzene	ND		0.0338	0.0400		mg/Kg	☼	118	80 - 121	10	20
1,3,5-Trimethylbenzene	ND		0.0338	0.0410		mg/Kg	☼	122	68 - 133	11	21
Vinyl chloride	ND		0.0338	0.0410		mg/Kg	☼	122	63 - 124	14	27
Xylenes, Total	ND		0.0675	0.0706		mg/Kg	☼	105	83 - 126	16	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	*93*		*63 - 120*
Dibromofluoromethane (Surr)	*93*		*68 - 121*
1,2-Dichloroethane-d4 (Surr)	*81*		*52 - 124*
Toluene-d8 (Surr)	*111*		*72 - 127*

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 180-217056/9
Matrix: Solid
Analysis Batch: 217056

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.020	0.0032	mg/Kg			07/14/17 10:13	1
Benzene	ND		0.0050	0.0020	mg/Kg			07/14/17 10:13	1
2-Butanone (MEK)	ND		0.0050	0.0029	mg/Kg			07/14/17 10:13	1
Carbon tetrachloride	ND		0.0050	0.0033	mg/Kg			07/14/17 10:13	1
Chlorobenzene	ND		0.0050	0.0016	mg/Kg			07/14/17 10:13	1
Chloroform	ND		0.0050	0.0021	mg/Kg			07/14/17 10:13	1
cis-1,2-Dichloroethene	ND		0.0050	0.0016	mg/Kg			07/14/17 10:13	1
1,2-Dichlorobenzene	ND		0.0050	0.0040	mg/Kg			07/14/17 10:13	1
1,3-Dichlorobenzene	ND		0.0050	0.0016	mg/Kg			07/14/17 10:13	1
1,4-Dichlorobenzene	ND		0.0050	0.0010	mg/Kg			07/14/17 10:13	1
1,1-Dichloroethane	ND		0.0050	0.0018	mg/Kg			07/14/17 10:13	1
1,2-Dichloroethane	ND		0.0050	0.0015	mg/Kg			07/14/17 10:13	1
1,1-Dichloroethene	ND		0.0050	0.0029	mg/Kg			07/14/17 10:13	1
Ethylbenzene	ND		0.0050	0.0022	mg/Kg			07/14/17 10:13	1
Methylene Chloride	ND		0.0050	0.0024	mg/Kg			07/14/17 10:13	1
Methyl tert-butyl ether	ND		0.0050	0.0037	mg/Kg			07/14/17 10:13	1
n-Butylbenzene	ND		0.0050	0.0038	mg/Kg			07/14/17 10:13	1
N-Propylbenzene	ND		0.0050	0.0021	mg/Kg			07/14/17 10:13	1
sec-Butylbenzene	ND		0.0050	0.0024	mg/Kg			07/14/17 10:13	1
tert-Butylbenzene	ND		0.0050	0.0018	mg/Kg			07/14/17 10:13	1
Tetrachloroethene	ND		0.0050	0.0020	mg/Kg			07/14/17 10:13	1
Toluene	ND		0.0050	0.0017	mg/Kg			07/14/17 10:13	1
trans-1,2-Dichloroethene	ND		0.0050	0.0025	mg/Kg			07/14/17 10:13	1
1,1,1-Trichloroethane	ND		0.0050	0.0025	mg/Kg			07/14/17 10:13	1
Trichloroethene	ND		0.0050	0.0015	mg/Kg			07/14/17 10:13	1
1,2,4-Trimethylbenzene	ND		0.0050	0.0013	mg/Kg			07/14/17 10:13	1
1,3,5-Trimethylbenzene	ND		0.0050	0.0017	mg/Kg			07/14/17 10:13	1
Vinyl chloride	ND		0.0050	0.0037	mg/Kg			07/14/17 10:13	1
Xylenes, Total	ND		0.010	0.0043	mg/Kg			07/14/17 10:13	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*63 - 120*		*07/14/17 10:13*	*1*
Dibromofluoromethane (Surr)	*95*		*68 - 121*		*07/14/17 10:13*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*52 - 124*		*07/14/17 10:13*	*1*
Toluene-d8 (Surr)	*109*		*72 - 127*		*07/14/17 10:13*	*1*

Lab Sample ID: LCS 180-217056/4
Matrix: Solid
Analysis Batch: 217056

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0400	0.0478		mg/Kg		120	20 - 150
Benzene	0.0400	0.0387		mg/Kg		97	77 - 120
2-Butanone (MEK)	0.0400	0.0418		mg/Kg		105	35 - 149
Carbon tetrachloride	0.0400	0.0335		mg/Kg		84	69 - 122
Chlorobenzene	0.0400	0.0375		mg/Kg		94	79 - 120
Chloroform	0.0400	0.0374		mg/Kg		94	72 - 120
cis-1,2-Dichloroethene	0.0400	0.0373		mg/Kg		93	80 - 118

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 180-217056/4
Matrix: Solid
Analysis Batch: 217056

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichlorobenzene	0.0400	0.0379		mg/Kg		95	71 - 124
1,3-Dichlorobenzene	0.0400	0.0376		mg/Kg		94	75 - 118
1,4-Dichlorobenzene	0.0400	0.0378		mg/Kg		94	77 - 116
1,1-Dichloroethane	0.0400	0.0406		mg/Kg		102	66 - 124
1,2-Dichloroethane	0.0400	0.0378		mg/Kg		95	61 - 127
1,1-Dichloroethene	0.0400	0.0375		mg/Kg		94	59 - 129
Ethylbenzene	0.0400	0.0368		mg/Kg		92	78 - 125
Methylene Chloride	0.0400	0.0350		mg/Kg		87	58 - 127
Methyl tert-butyl ether	0.0400	0.0371		mg/Kg		93	48 - 132
n-Butylbenzene	0.0400	0.0408		mg/Kg		102	59 - 145
N-Propylbenzene	0.0400	0.0366		mg/Kg		92	80 - 120
sec-Butylbenzene	0.0400	0.0394		mg/Kg		98	70 - 130
tert-Butylbenzene	0.0400	0.0388		mg/Kg		97	74 - 133
Tetrachloroethene	0.0400	0.0374		mg/Kg		93	78 - 129
Toluene	0.0400	0.0394		mg/Kg		98	78 - 124
trans-1,2-Dichloroethene	0.0400	0.0378		mg/Kg		95	77 - 121
1,1,1-Trichloroethane	0.0400	0.0371		mg/Kg		93	67 - 126
Trichloroethene	0.0400	0.0368		mg/Kg		92	76 - 119
1,2,4-Trimethylbenzene	0.0400	0.0389		mg/Kg		97	80 - 121
1,3,5-Trimethylbenzene	0.0400	0.0387		mg/Kg		97	68 - 133
Vinyl chloride	0.0400	0.0474		mg/Kg		118	63 - 124
Xylenes, Total	0.0800	0.0742		mg/Kg		93	83 - 126

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*63 - 120*
Dibromofluoromethane (Surr)	*97*		*68 - 121*
1,2-Dichloroethane-d4 (Surr)	*97*		*52 - 124*
Toluene-d8 (Surr)	*105*		*72 - 127*

Lab Sample ID: MB 180-217186/9
Matrix: Solid
Analysis Batch: 217186

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.020	0.0032	mg/Kg			07/16/17 11:34	1
Benzene	ND		0.0050	0.0020	mg/Kg			07/16/17 11:34	1
2-Butanone (MEK)	ND		0.0050	0.0029	mg/Kg			07/16/17 11:34	1
Carbon tetrachloride	ND		0.0050	0.0033	mg/Kg			07/16/17 11:34	1
Chlorobenzene	ND		0.0050	0.0016	mg/Kg			07/16/17 11:34	1
Chloroform	ND		0.0050	0.0021	mg/Kg			07/16/17 11:34	1
cis-1,2-Dichloroethene	ND		0.0050	0.0016	mg/Kg			07/16/17 11:34	1
1,2-Dichlorobenzene	ND		0.0050	0.0040	mg/Kg			07/16/17 11:34	1
1,3-Dichlorobenzene	ND		0.0050	0.0016	mg/Kg			07/16/17 11:34	1
1,4-Dichlorobenzene	ND		0.0050	0.0010	mg/Kg			07/16/17 11:34	1
1,1-Dichloroethane	ND		0.0050	0.0018	mg/Kg			07/16/17 11:34	1
1,2-Dichloroethane	ND		0.0050	0.0015	mg/Kg			07/16/17 11:34	1
1,1-Dichloroethene	ND		0.0050	0.0029	mg/Kg			07/16/17 11:34	1
Ethylbenzene	ND		0.0050	0.0022	mg/Kg			07/16/17 11:34	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 180-217186/9
Matrix: Solid
Analysis Batch: 217186

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		0.0050	0.0024	mg/Kg			07/16/17 11:34	1
Methyl tert-butyl ether	ND		0.0050	0.0037	mg/Kg			07/16/17 11:34	1
n-Butylbenzene	ND		0.0050	0.0038	mg/Kg			07/16/17 11:34	1
N-Propylbenzene	ND		0.0050	0.0021	mg/Kg			07/16/17 11:34	1
sec-Butylbenzene	ND		0.0050	0.0024	mg/Kg			07/16/17 11:34	1
tert-Butylbenzene	ND		0.0050	0.0018	mg/Kg			07/16/17 11:34	1
Tetrachloroethene	ND		0.0050	0.0020	mg/Kg			07/16/17 11:34	1
Toluene	ND		0.0050	0.0017	mg/Kg			07/16/17 11:34	1
trans-1,2-Dichloroethene	ND		0.0050	0.0025	mg/Kg			07/16/17 11:34	1
1,1,1-Trichloroethane	ND		0.0050	0.0025	mg/Kg			07/16/17 11:34	1
Trichloroethene	ND		0.0050	0.0015	mg/Kg			07/16/17 11:34	1
1,2,4-Trimethylbenzene	ND		0.0050	0.0013	mg/Kg			07/16/17 11:34	1
1,3,5-Trimethylbenzene	ND		0.0050	0.0017	mg/Kg			07/16/17 11:34	1
Vinyl chloride	ND		0.0050	0.0037	mg/Kg			07/16/17 11:34	1
Xylenes, Total	ND		0.010	0.0043	mg/Kg			07/16/17 11:34	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*63 - 120*		*07/16/17 11:34*	*1*
Dibromofluoromethane (Surr)	*95*		*68 - 121*		*07/16/17 11:34*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*52 - 124*		*07/16/17 11:34*	*1*
Toluene-d8 (Surr)	*110*		*72 - 127*		*07/16/17 11:34*	*1*

Lab Sample ID: LCS 180-217186/4
Matrix: Solid
Analysis Batch: 217186

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0400	0.0423		mg/Kg		106	20 - 150
Benzene	0.0400	0.0398		mg/Kg		100	77 - 120
2-Butanone (MEK)	0.0400	0.0368		mg/Kg		92	35 - 149
Carbon tetrachloride	0.0400	0.0365		mg/Kg		91	69 - 122
Chlorobenzene	0.0400	0.0379		mg/Kg		95	79 - 120
Chloroform	0.0400	0.0383		mg/Kg		96	72 - 120
cis-1,2-Dichloroethene	0.0400	0.0378		mg/Kg		94	80 - 118
1,2-Dichlorobenzene	0.0400	0.0386		mg/Kg		96	71 - 124
1,3-Dichlorobenzene	0.0400	0.0389		mg/Kg		97	75 - 118
1,4-Dichlorobenzene	0.0400	0.0387		mg/Kg		97	77 - 116
1,1-Dichloroethane	0.0400	0.0415		mg/Kg		104	66 - 124
1,2-Dichloroethane	0.0400	0.0367		mg/Kg		92	61 - 127
1,1-Dichloroethene	0.0400	0.0378		mg/Kg		95	59 - 129
Ethylbenzene	0.0400	0.0387		mg/Kg		97	78 - 125
Methylene Chloride	0.0400	0.0355		mg/Kg		89	58 - 127
Methyl tert-butyl ether	0.0400	0.0366		mg/Kg		92	48 - 132
n-Butylbenzene	0.0400	0.0429		mg/Kg		107	59 - 145
N-Propylbenzene	0.0400	0.0385		mg/Kg		96	80 - 120
sec-Butylbenzene	0.0400	0.0420		mg/Kg		105	70 - 130
tert-Butylbenzene	0.0400	0.0399		mg/Kg		100	74 - 133
Tetrachloroethene	0.0400	0.0393		mg/Kg		98	78 - 129

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 180-217186/4
Matrix: Solid
Analysis Batch: 217186

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Toluene	0.0400	0.0414		mg/Kg		104	78 - 124
trans-1,2-Dichloroethene	0.0400	0.0386		mg/Kg		97	77 - 121
1,1,1-Trichloroethane	0.0400	0.0403		mg/Kg		101	67 - 126
Trichloroethene	0.0400	0.0381		mg/Kg		95	76 - 119
1,2,4-Trimethylbenzene	0.0400	0.0407		mg/Kg		102	80 - 121
1,3,5-Trimethylbenzene	0.0400	0.0411		mg/Kg		103	68 - 133
Vinyl chloride	0.0400	0.0482		mg/Kg		121	63 - 124
Xylenes, Total	0.0800	0.0771		mg/Kg		96	83 - 126

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*63 - 120*
Dibromofluoromethane (Surr)	*95*		*68 - 121*
1,2-Dichloroethane-d4 (Surr)	*94*		*52 - 124*
Toluene-d8 (Surr)	*106*		*72 - 127*

Lab Sample ID: LCSD 180-217186/5
Matrix: Solid
Analysis Batch: 217186

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	0.0400	0.0423		mg/Kg		106	20 - 150	0	40
Benzene	0.0400	0.0396		mg/Kg		99	77 - 120	1	20
2-Butanone (MEK)	0.0400	0.0414		mg/Kg		103	35 - 149	12	36
Carbon tetrachloride	0.0400	0.0359		mg/Kg		90	69 - 122	2	22
Chlorobenzene	0.0400	0.0384		mg/Kg		96	79 - 120	1	20
Chloroform	0.0400	0.0379		mg/Kg		95	72 - 120	1	25
cis-1,2-Dichloroethene	0.0400	0.0379		mg/Kg		95	80 - 118	0	20
1,2-Dichlorobenzene	0.0400	0.0389		mg/Kg		97	71 - 124	1	22
1,3-Dichlorobenzene	0.0400	0.0389		mg/Kg		97	75 - 118	0	20
1,4-Dichlorobenzene	0.0400	0.0388		mg/Kg		97	77 - 116	0	20
1,1-Dichloroethane	0.0400	0.0417		mg/Kg		104	66 - 124	1	23
1,2-Dichloroethane	0.0400	0.0375		mg/Kg		94	61 - 127	2	23
1,1-Dichloroethene	0.0400	0.0392		mg/Kg		98	59 - 129	4	25
Ethylbenzene	0.0400	0.0381		mg/Kg		95	78 - 125	1	21
Methylene Chloride	0.0400	0.0361		mg/Kg		90	58 - 127	2	28
Methyl tert-butyl ether	0.0400	0.0373		mg/Kg		93	48 - 132	2	36
n-Butylbenzene	0.0400	0.0427		mg/Kg		107	59 - 145	0	24
N-Propylbenzene	0.0400	0.0384		mg/Kg		96	80 - 120	0	20
sec-Butylbenzene	0.0400	0.0418		mg/Kg		104	70 - 130	1	21
tert-Butylbenzene	0.0400	0.0395		mg/Kg		99	74 - 133	1	22
Tetrachloroethene	0.0400	0.0394		mg/Kg		98	78 - 129	0	20
Toluene	0.0400	0.0411		mg/Kg		103	78 - 124	1	21
trans-1,2-Dichloroethene	0.0400	0.0389		mg/Kg		97	77 - 121	1	20
1,1,1-Trichloroethane	0.0400	0.0389		mg/Kg		97	67 - 126	4	31
Trichloroethene	0.0400	0.0381		mg/Kg		95	76 - 119	0	21
1,2,4-Trimethylbenzene	0.0400	0.0405		mg/Kg		101	80 - 121	1	20
1,3,5-Trimethylbenzene	0.0400	0.0406		mg/Kg		102	68 - 133	1	21
Vinyl chloride	0.0400	0.0486		mg/Kg		122	63 - 124	1	27

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 180-217186/5
Matrix: Solid
Analysis Batch: 217186

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Xylenes, Total			0.0800	0.0769		mg/Kg		96	83 - 126	0	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*105*		*63 - 120*
Dibromofluoromethane (Surr)	*102*		*68 - 121*
1,2-Dichloroethane-d4 (Surr)	*100*		*52 - 124*
Toluene-d8 (Surr)	*111*		*72 - 127*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Lab Sample ID: MB 180-216880/1-A
Matrix: Solid
Analysis Batch: 216940

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 216880

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0067	0.0022	mg/Kg		07/13/17 03:37	07/13/17 12:45	1
Acenaphthylene	ND		0.0067	0.0023	mg/Kg		07/13/17 03:37	07/13/17 12:45	1
Anthracene	ND		0.0067	0.0025	mg/Kg		07/13/17 03:37	07/13/17 12:45	1
Benzo[a]anthracene	ND		0.0067	0.0026	mg/Kg		07/13/17 03:37	07/13/17 12:45	1
Benzo[a]pyrene	ND		0.0067	0.0028	mg/Kg		07/13/17 03:37	07/13/17 12:45	1
Benzo[b]fluoranthene	ND		0.0067	0.0029	mg/Kg		07/13/17 03:37	07/13/17 12:45	1
Benzo[g,h,i]perylene	ND		0.0067	0.0029	mg/Kg		07/13/17 03:37	07/13/17 12:45	1
Benzo[k]fluoranthene	ND		0.0067	0.0023	mg/Kg		07/13/17 03:37	07/13/17 12:45	1
Chrysene	ND		0.0067	0.0026	mg/Kg		07/13/17 03:37	07/13/17 12:45	1
Dibenz(a,h)anthracene	ND		0.0067	0.0028	mg/Kg		07/13/17 03:37	07/13/17 12:45	1
Dibenzofuran	ND		0.033	0.0027	mg/Kg		07/13/17 03:37	07/13/17 12:45	1
1,4-Dioxane	ND		0.067	0.0050	mg/Kg		07/13/17 03:37	07/13/17 12:45	1
Fluoranthene	ND		0.0067	0.0026	mg/Kg		07/13/17 03:37	07/13/17 12:45	1
Fluorene	ND		0.0067	0.0024	mg/Kg		07/13/17 03:37	07/13/17 12:45	1
Hexachlorobenzene	ND		0.0067	0.0027	mg/Kg		07/13/17 03:37	07/13/17 12:45	1
Indeno[1,2,3-cd]pyrene	ND		0.0067	0.0026	mg/Kg		07/13/17 03:37	07/13/17 12:45	1
2-Methylphenol	ND		0.033	0.0029	mg/Kg		07/13/17 03:37	07/13/17 12:45	1
Methylphenol, 3 & 4	ND		0.033	0.0030	mg/Kg		07/13/17 03:37	07/13/17 12:45	1
Naphthalene	ND		0.0067	0.0024	mg/Kg		07/13/17 03:37	07/13/17 12:45	1
Pentachlorophenol	ND		0.17	0.063	mg/Kg		07/13/17 03:37	07/13/17 12:45	1
Phenanthrene	ND		0.0067	0.0028	mg/Kg		07/13/17 03:37	07/13/17 12:45	1
Phenol	ND		0.033	0.0045	mg/Kg		07/13/17 03:37	07/13/17 12:45	1
Pyrene	ND		0.0067	0.0030	mg/Kg		07/13/17 03:37	07/13/17 12:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*50*		*42 - 100*	*07/13/17 03:37*	*07/13/17 12:45*	*1*
2-Fluorophenol (Surr)	*56*		*21 - 107*	*07/13/17 03:37*	*07/13/17 12:45*	*1*
Nitrobenzene-d5 (Surr)	*58*		*35 - 109*	*07/13/17 03:37*	*07/13/17 12:45*	*1*
Phenol-d5 (Surr)	*51*		*29 - 105*	*07/13/17 03:37*	*07/13/17 12:45*	*1*
Terphenyl-d14 (Surr)	*59*		*36 - 113*	*07/13/17 03:37*	*07/13/17 12:45*	*1*
2,4,6-Tribromophenol (Surr)	*60*		*20 - 134*	*07/13/17 03:37*	*07/13/17 12:45*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCS 180-216880/2-A
Matrix: Solid
Analysis Batch: 216940

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 216880

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	0.667	0.539		mg/Kg		81	39 - 100
Acenaphthylene	0.667	0.498		mg/Kg		75	42 - 100
Anthracene	0.667	0.578		mg/Kg		87	43 - 100
Benzo[a]anthracene	0.667	0.554		mg/Kg		83	43 - 100
Benzo[a]pyrene	0.667	0.521		mg/Kg		78	43 - 100
Benzo[b]fluoranthene	0.667	0.535		mg/Kg		80	40 - 100
Benzo[g,h,i]perylene	0.667	0.436		mg/Kg		65	41 - 102
Benzo[k]fluoranthene	0.667	0.519		mg/Kg		78	44 - 100
Chrysene	0.667	0.494		mg/Kg		74	44 - 100
Dibenz(a,h)anthracene	0.667	0.468		mg/Kg		70	40 - 104
Dibenzofuran	0.667	0.501		mg/Kg		75	42 - 100
1,4-Dioxane	0.667	0.603		mg/Kg		90	19 - 107
Fluoranthene	0.667	0.558		mg/Kg		84	41 - 104
Fluorene	0.667	0.553		mg/Kg		83	41 - 100
Hexachlorobenzene	0.667	0.612		mg/Kg		92	43 - 100
Indeno[1,2,3-cd]pyrene	0.667	0.474		mg/Kg		71	41 - 104
2-Methylphenol	0.667	0.572		mg/Kg		86	38 - 100
Methylphenol, 3 & 4	0.667	0.561		mg/Kg		84	40 - 100
Naphthalene	0.667	0.546		mg/Kg		82	38 - 100
Pentachlorophenol	1.33	1.22		mg/Kg		92	34 - 102
Phenanthrene	0.667	0.563		mg/Kg		84	41 - 100
Phenol	0.667	0.527		mg/Kg		79	36 - 100
Pyrene	0.667	0.537		mg/Kg		80	42 - 100

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*69*		*42 - 100*
2-Fluorophenol (Surr)	*74*		*21 - 107*
Nitrobenzene-d5 (Surr)	*74*		*35 - 109*
Phenol-d5 (Surr)	*69*		*29 - 105*
Terphenyl-d14 (Surr)	*72*		*36 - 113*
2,4,6-Tribromophenol (Surr)	*83*		*20 - 134*

Lab Sample ID: 180-68096-6 MS
Matrix: Solid
Analysis Batch: 216940

Client Sample ID: W2, S1, C 71117
Prep Type: Total/NA
Prep Batch: 216880

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	ND		0.733	0.536		mg/Kg	☼	73	39 - 100
Acenaphthylene	0.12	J F2	0.733	0.738		mg/Kg	☼	84	42 - 100
Anthracene	0.15	F2	0.733	0.861		mg/Kg	☼	97	43 - 100
Benzo[a]anthracene	0.59	F2 F1	0.733	1.42	F1	mg/Kg	☼	114	43 - 100
Benzo[a]pyrene	0.61	F2 F1	0.733	1.40	F1	mg/Kg	☼	107	43 - 100
Benzo[b]fluoranthene	0.78	F2 F1	0.733	1.44		mg/Kg	☼	90	40 - 100
Benzo[g,h,i]perylene	0.55	F2 F1	0.733	1.58	F1	mg/Kg	☼	140	41 - 102
Benzo[k]fluoranthene	0.21	F2 F1	0.733	0.943	F1	mg/Kg	☼	101	44 - 100
Chrysene	0.62	F2	0.733	1.31		mg/Kg	☼	94	44 - 100
Dibenz(a,h)anthracene	0.12	J	0.733	0.863		mg/Kg	☼	101	40 - 104
Dibenzofuran	ND		0.733	0.596	J	mg/Kg	☼	81	42 - 100

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: 180-68096-6 MS
Matrix: Solid
Analysis Batch: 216940

Client Sample ID: W2, S1, C 71117
Prep Type: Total/NA
Prep Batch: 216880

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	ND	F2	0.733	0.608	J	mg/Kg	☼	83	19 - 107
Fluoranthene	0.93	F2 F1	0.733	1.94	F1	mg/Kg	☼	138	41 - 104
Fluorene	ND	F2	0.733	0.567		mg/Kg	☼	77	41 - 100
Hexachlorobenzene	ND		0.733	0.568		mg/Kg	☼	78	43 - 100
Indeno[1,2,3-cd]pyrene	0.50	F2 F1	0.733	1.36	F1	mg/Kg	☼	118	41 - 104
2-Methylphenol	ND		0.733	0.501	J	mg/Kg	☼	68	38 - 100
Methylphenol, 3 & 4	ND		0.733	0.441	J	mg/Kg	☼	60	40 - 100
Naphthalene	0.16		0.733	0.674		mg/Kg	☼	71	38 - 100
Pentachlorophenol	ND	F1	1.47	ND	F1	mg/Kg	☼	0	34 - 102
Phenanthrene	0.43	F2 F1	0.733	1.48	F1	mg/Kg	☼	145	41 - 100
Phenol	ND		0.733	0.436	J	mg/Kg	☼	59	36 - 100
Pyrene	0.92	F2 F1	0.733	1.88	F1	mg/Kg	☼	131	42 - 100

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl	*60*		*42 - 100*
2-Fluorophenol (Surr)	*54*		*21 - 107*
Nitrobenzene-d5 (Surr)	*69*		*35 - 109*
Phenol-d5 (Surr)	*54*		*29 - 105*
Terphenyl-d14 (Surr)	*74*		*36 - 113*
2,4,6-Tribromophenol (Surr)	*64*		*20 - 134*

Lab Sample ID: 180-68096-6 MSD
Matrix: Solid
Analysis Batch: 216940

Client Sample ID: W2, S1, C 71117
Prep Type: Total/NA
Prep Batch: 216880

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	ND		0.728	0.462		mg/Kg	☼	63	39 - 100	15	20
Acenaphthylene	0.12	J F2	0.728	0.577	F2	mg/Kg	☼	62	42 - 100	24	20
Anthracene	0.15	F2	0.728	0.632	F2	mg/Kg	☼	66	43 - 100	31	20
Benzo[a]anthracene	0.59	F2 F1	0.728	0.932	F2	mg/Kg	☼	47	43 - 100	41	20
Benzo[a]pyrene	0.61	F2 F1	0.728	0.991	F2	mg/Kg	☼	52	43 - 100	34	20
Benzo[b]fluoranthene	0.78	F2 F1	0.728	1.05	F1 F2	mg/Kg	☼	38	40 - 100	31	20
Benzo[g,h,i]perylene	0.55	F2 F1	0.728	1.14	F2	mg/Kg	☼	80	41 - 102	32	20
Benzo[k]fluoranthene	0.21	F2 F1	0.728	0.625	F2	mg/Kg	☼	58	44 - 100	40	20
Chrysene	0.62	F2	0.728	0.948	F2	mg/Kg	☼	46	44 - 100	32	20
Dibenz(a,h)anthracene	0.12	J	0.728	0.680		mg/Kg	☼	76	40 - 104	24	26
Dibenzofuran	ND		0.728	0.480	J	mg/Kg	☼	66	42 - 100	21	23
1,4-Dioxane	ND	F2	0.728	0.491	J F2	mg/Kg	☼	67	19 - 107	21	20
Fluoranthene	0.93	F2 F1	0.728	1.22	F1 F2	mg/Kg	☼	40	41 - 104	45	20
Fluorene	ND	F2	0.728	0.451	F2	mg/Kg	☼	62	41 - 100	23	21
Hexachlorobenzene	ND		0.728	0.515		mg/Kg	☼	71	43 - 100	10	21
Indeno[1,2,3-cd]pyrene	0.50	F2 F1	0.728	0.989	F2	mg/Kg	☼	67	41 - 104	32	25
2-Methylphenol	ND		0.728	0.409	J	mg/Kg	☼	56	38 - 100	20	20
Methylphenol, 3 & 4	ND		0.728	0.469	J	mg/Kg	☼	64	40 - 100	6	20
Naphthalene	0.16		0.728	0.592		mg/Kg	☼	60	38 - 100	13	20
Pentachlorophenol	ND	F1	1.46	ND	F1	mg/Kg	☼	0	34 - 102	NC	20
Phenanthrene	0.43	F2 F1	0.728	0.893	F2	mg/Kg	☼	64	41 - 100	50	20
Phenol	ND		0.728	0.424	J	mg/Kg	☼	58	36 - 100	3	20

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: 180-68096-6 MSD
Matrix: Solid
Analysis Batch: 216940

Client Sample ID: W2, S1, C 71117
Prep Type: Total/NA
Prep Batch: 216880

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Pyrene	0.92	F2 F1	0.728	1.29	F2	mg/Kg	☼	50	42 - 100	38	21

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl	*54*		*42 - 100*
2-Fluorophenol (Surr)	*60*		*21 - 107*
Nitrobenzene-d5 (Surr)	*68*		*35 - 109*
Phenol-d5 (Surr)	*57*		*29 - 105*
Terphenyl-d14 (Surr)	*71*		*36 - 113*
2,4,6-Tribromophenol (Surr)	*54*		*20 - 134*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 180-216879/1-C
Matrix: Solid
Analysis Batch: 217035

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 216879

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.017	0.0088	mg/Kg		07/13/17 03:34	07/14/17 13:27	1
PCB-1221	ND		0.017	0.0086	mg/Kg		07/13/17 03:34	07/14/17 13:27	1
PCB-1232	ND		0.017	0.0066	mg/Kg		07/13/17 03:34	07/14/17 13:27	1
PCB-1242	ND		0.017	0.013	mg/Kg		07/13/17 03:34	07/14/17 13:27	1
PCB-1248	ND		0.017	0.0080	mg/Kg		07/13/17 03:34	07/14/17 13:27	1
PCB-1254	ND		0.017	0.0073	mg/Kg		07/13/17 03:34	07/14/17 13:27	1
PCB-1260	ND		0.017	0.011	mg/Kg		07/13/17 03:34	07/14/17 13:27	1
PCB-1262	ND		0.017	0.012	mg/Kg		07/13/17 03:34	07/14/17 13:27	1
PCB-1268	ND		0.017	0.0051	mg/Kg		07/13/17 03:34	07/14/17 13:27	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*91*		*23 - 150*	*07/13/17 03:34*	*07/14/17 13:27*	*1*
DCB Decachlorobiphenyl (Surr)	*94*		*23 - 150*	*07/13/17 03:34*	*07/14/17 13:27*	*1*
Tetrachloro-m-xylene (Surr)	*103*		*27 - 138*	*07/13/17 03:34*	*07/14/17 13:27*	*1*
Tetrachloro-m-xylene (Surr)	*98*		*27 - 138*	*07/13/17 03:34*	*07/14/17 13:27*	*1*

Lab Sample ID: LCS 180-216879/2-C
Matrix: Solid
Analysis Batch: 217035

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 216879

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	1.33	1.37		mg/Kg		103	52 - 126
PCB-1260	1.33	1.38		mg/Kg		103	50 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*103*		*23 - 150*
DCB Decachlorobiphenyl (Surr)	*109*		*23 - 150*
Tetrachloro-m-xylene (Surr)	*119*		*27 - 138*
Tetrachloro-m-xylene (Surr)	*112*		*27 - 138*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 180-68096-6 MS
Matrix: Solid
Analysis Batch: 217035

Client Sample ID: W2, S1, C 71117
Prep Type: Total/NA
Prep Batch: 216879

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	ND		1.45	1.53		mg/Kg	☼	106	52 - 126
PCB-1260	0.19		1.45	1.27		mg/Kg	☼	74	50 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*78*		*23 - 150*
DCB Decachlorobiphenyl (Surr)	*89*		*23 - 150*
Tetrachloro-m-xylene (Surr)	*88*		*27 - 138*
Tetrachloro-m-xylene (Surr)	*79*		*27 - 138*

Lab Sample ID: 180-68096-6 MSD
Matrix: Solid
Analysis Batch: 217035

Client Sample ID: W2, S1, C 71117
Prep Type: Total/NA
Prep Batch: 216879

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	ND		1.48	1.69		mg/Kg	☼	114	52 - 126	10	20
PCB-1260	0.19		1.48	1.34		mg/Kg	☼	78	50 - 130	6	21

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*79*		*23 - 150*
DCB Decachlorobiphenyl (Surr)	*85*		*23 - 150*
Tetrachloro-m-xylene (Surr)	*85*		*27 - 138*
Tetrachloro-m-xylene (Surr)	*75*		*27 - 138*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 180-216920/1-A
Matrix: Solid
Analysis Batch: 217205

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 216920

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		1.0	0.44	mg/Kg		07/13/17 09:05	07/14/17 12:41	1
Barium	ND		20	5.4	mg/Kg		07/13/17 09:05	07/14/17 12:41	1
Beryllium	ND		0.40	0.10	mg/Kg		07/13/17 09:05	07/14/17 12:41	1
Cadmium	ND		0.50	0.11	mg/Kg		07/13/17 09:05	07/14/17 12:41	1
Chromium	ND		0.50	0.13	mg/Kg		07/13/17 09:05	07/14/17 12:41	1
Copper	ND		2.5	0.77	mg/Kg		07/13/17 09:05	07/14/17 12:41	1
Lead	ND		1.0	0.33	mg/Kg		07/13/17 09:05	07/14/17 12:41	1
Manganese	ND		1.5	0.41	mg/Kg		07/13/17 09:05	07/14/17 12:41	1
Nickel	ND		4.0	0.90	mg/Kg		07/13/17 09:05	07/14/17 12:41	1
Selenium	ND		1.0	0.40	mg/Kg		07/13/17 09:05	07/14/17 12:41	1
Silver	ND		0.50	0.17	mg/Kg		07/13/17 09:05	07/14/17 12:41	1
Zinc	ND		2.0	1.0	mg/Kg		07/13/17 09:05	07/14/17 12:41	1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCS 180-216920/2-A
Matrix: Solid
Analysis Batch: 217205

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 216920

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	50.0	52.0		mg/Kg		104	80 - 120
Barium	200	202		mg/Kg		101	80 - 120
Beryllium	5.00	5.07		mg/Kg		101	80 - 120
Cadmium	5.00	5.15		mg/Kg		103	80 - 120
Chromium	20.0	19.4		mg/Kg		97	80 - 120
Copper	25.0	24.9		mg/Kg		100	80 - 120
Lead	50.0	49.2		mg/Kg		98	80 - 120
Manganese	50.0	49.6		mg/Kg		99	80 - 120
Nickel	50.0	50.9		mg/Kg		102	80 - 120
Selenium	50.0	50.9		mg/Kg		102	80 - 120
Silver	5.00	4.98		mg/Kg		100	80 - 120
Zinc	50.0	50.0		mg/Kg		100	80 - 120

Lab Sample ID: 180-68096-6 MS
Matrix: Solid
Analysis Batch: 217205

Client Sample ID: W2, S1, C 71117
Prep Type: Total/NA
Prep Batch: 216920

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	6.6		55.1	51.5		mg/Kg	☼	81	75 - 125
Barium	84		221	266		mg/Kg	☼	83	75 - 125
Beryllium	0.35	J	5.51	4.85		mg/Kg	☼	82	75 - 125
Cadmium	0.24	J	5.51	4.69		mg/Kg	☼	81	75 - 125
Chromium	10		22.1	29.0		mg/Kg	☼	85	75 - 125
Copper	26	F1	27.6	45.3	F1	mg/Kg	☼	69	75 - 125
Lead	33		55.1	84.2		mg/Kg	☼	93	75 - 125
Manganese	800	F2	55.1	417	4	mg/Kg	☼	-689	75 - 125
Nickel	19		55.1	65.0		mg/Kg	☼	84	75 - 125
Selenium	0.47	J	55.1	44.7		mg/Kg	☼	80	75 - 125
Silver	ND		5.51	4.48		mg/Kg	☼	81	75 - 125
Zinc	76	F1	55.1	116	F1	mg/Kg	☼	73	75 - 125

Lab Sample ID: 180-68096-6 MSD
Matrix: Solid
Analysis Batch: 217205

Client Sample ID: W2, S1, C 71117
Prep Type: Total/NA
Prep Batch: 216920

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	6.6		53.5	50.1		mg/Kg	☼	81	75 - 125	3	20
Barium	84		214	254		mg/Kg	☼	79	75 - 125	5	20
Beryllium	0.35	J	5.35	4.65		mg/Kg	☼	80	75 - 125	4	20
Cadmium	0.24	J	5.35	4.54		mg/Kg	☼	80	75 - 125	3	20
Chromium	10		21.4	27.3		mg/Kg	☼	79	75 - 125	6	20
Copper	26	F1	26.8	48.5		mg/Kg	☼	84	75 - 125	7	20
Lead	33		53.5	78.0		mg/Kg	☼	84	75 - 125	8	20
Manganese	800	F2	53.5	523	4 F2	mg/Kg	☼	-511	75 - 125	23	20
Nickel	19		53.5	66.5		mg/Kg	☼	89	75 - 125	2	20
Selenium	0.47	J	53.5	42.6		mg/Kg	☼	79	75 - 125	5	20
Silver	ND		5.35	4.40		mg/Kg	☼	82	75 - 125	2	20
Zinc	76	F1	53.5	111	F1	mg/Kg	☼	65	75 - 125	5	20

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 180-217097/1-A
Matrix: Solid
Analysis Batch: 217252

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 217097

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.033	0.0074	mg/Kg		07/14/17 11:17	07/17/17 09:07	1

Lab Sample ID: LCS 180-217097/2-A
Matrix: Solid
Analysis Batch: 217252

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 217097

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.417	0.469		mg/Kg		113	80 - 120

Lab Sample ID: 180-68096-6 MS
Matrix: Solid
Analysis Batch: 217252

Client Sample ID: W2, S1, C 71117
Prep Type: Total/NA
Prep Batch: 217097

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.41	F1	0.180	0.762	F1	mg/Kg	☼	196	80 - 120

Lab Sample ID: 180-68096-6 MSD
Matrix: Solid
Analysis Batch: 217252

Client Sample ID: W2, S1, C 71117
Prep Type: Total/NA
Prep Batch: 217097

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.41	F1	0.183	0.659	F1	mg/Kg	☼	136	80 - 120	15	20

Method: 2540G - SM 2540G

Lab Sample ID: 180-68096-9 DU
Matrix: Solid
Analysis Batch: 216865

Client Sample ID: W2, S2, C 71117
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	11.8		11.9		%		0.4	20
Percent Solids	88.2		88.1		%		0.06	20

Lab Sample ID: 180-68096-18 DU
Matrix: Solid
Analysis Batch: 216870

Client Sample ID: W2, S5 C 71117
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	8.7		9.1		%		5	20
Percent Solids	91.3		90.9		%		0.5	20

Lab Sample ID: 180-68096-28 DU
Matrix: Solid
Analysis Batch: 216870

Client Sample ID: W3, S3, B 71117
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	10.9		9.8		%		11	20
Percent Solids	89.1		90.2		%		1	20

Method: 9014 - Cyanide

Lab Sample ID: MB 180-216972/4-A
Matrix: Solid
Analysis Batch: 217087

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 216972

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.50	0.15	mg/Kg		07/13/17 12:02	07/13/17 15:51	1

Lab Sample ID: HLCS 180-216972/2-A
Matrix: Solid
Analysis Batch: 217087

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 216972

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.250	0.255		mg/Kg		102	90 - 110

Lab Sample ID: LCS 180-216972/3-A
Matrix: Solid
Analysis Batch: 217087

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 216972

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	166	121		mg/Kg		73	38 - 162

Lab Sample ID: LLCS 180-216972/1-A
Matrix: Solid
Analysis Batch: 217087

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 216972

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.0500	0.0471		mg/Kg		94	90 - 110

Lab Sample ID: 180-68096-6 MS
Matrix: Solid
Analysis Batch: 217087

Client Sample ID: W2, S1, C 71117
Prep Type: Total/NA
Prep Batch: 216972

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	ND		5.46	5.54		mg/Kg	☼	101	75 - 125

Lab Sample ID: 180-68096-6 MSD
Matrix: Solid
Analysis Batch: 217087

Client Sample ID: W2, S1, C 71117
Prep Type: Total/NA
Prep Batch: 216972

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cyanide, Total	ND		5.30	5.46		mg/Kg	☼	103	75 - 125	1	20

GC/MS VOA

Analysis Batch: 216893

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68096-1	W1, S5, A 71117	Total/NA	Solid	8260C	216904
180-68096-2	W1, S5, B 71117	Total/NA	Solid	8260C	216904
180-68096-4	W2, S1, A 71117	Total/NA	Solid	8260C	216904
180-68096-5	W2, S1, B 71117	Total/NA	Solid	8260C	216904
180-68096-7	W2, S2, A 71117	Total/NA	Solid	8260C	216904
180-68096-8	W2, S2, B 71117	Total/NA	Solid	8260C	216904
180-68096-10	W2, S3, A 71117	Total/NA	Solid	8260C	216904
180-68096-11	W2, S3, B 71117	Total/NA	Solid	8260C	216904
180-68096-13	W2, S4, A 71117	Total/NA	Solid	8260C	216904
180-68096-14	W2, S4, B 71117	Total/NA	Solid	8260C	216904
180-68096-16	W2, S5 A 71117	Total/NA	Solid	8260C	216904
180-68096-17	W2, S5 B 71117	Total/NA	Solid	8260C	216904
MB 180-216893/9	Method Blank	Total/NA	Solid	8260C	
LCS 180-216893/4	Lab Control Sample	Total/NA	Solid	8260C	
180-68096-4 MS	W2, S1, A 71117	Total/NA	Solid	8260C	216904
180-68096-4 MSD	W2, S1, A 71117	Total/NA	Solid	8260C	216904

Prep Batch: 216904

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68096-1	W1, S5, A 71117	Total/NA	Solid	5035	
180-68096-2	W1, S5, B 71117	Total/NA	Solid	5035	
180-68096-4	W2, S1, A 71117	Total/NA	Solid	5035	
180-68096-5	W2, S1, B 71117	Total/NA	Solid	5035	
180-68096-7	W2, S2, A 71117	Total/NA	Solid	5035	
180-68096-8	W2, S2, B 71117	Total/NA	Solid	5035	
180-68096-10	W2, S3, A 71117	Total/NA	Solid	5035	
180-68096-11	W2, S3, B 71117	Total/NA	Solid	5035	
180-68096-13	W2, S4, A 71117	Total/NA	Solid	5035	
180-68096-14	W2, S4, B 71117	Total/NA	Solid	5035	
180-68096-16	W2, S5 A 71117	Total/NA	Solid	5035	
180-68096-17	W2, S5 B 71117	Total/NA	Solid	5035	
180-68096-4 MS	W2, S1, A 71117	Total/NA	Solid	5035	
180-68096-4 MSD	W2, S1, A 71117	Total/NA	Solid	5035	

Prep Batch: 217050

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68096-34	W3, S5, A 71117	Total/NA	Solid	5035	
180-68096-35	W3, S5, B 71117	Total/NA	Solid	5035	

Analysis Batch: 217056

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68096-34	W3, S5, A 71117	Total/NA	Solid	8260C	217050
180-68096-35	W3, S5, B 71117	Total/NA	Solid	8260C	217050
MB 180-217056/9	Method Blank	Total/NA	Solid	8260C	
LCS 180-217056/4	Lab Control Sample	Total/NA	Solid	8260C	

Analysis Batch: 217186

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68096-19	W3, S1 A 71117	Total/NA	Solid	8260C	217187
180-68096-20	W3, S1 B 71117	Total/NA	Solid	8260C	217187
180-68096-21	DUP-3	Total/NA	Solid	8260C	217187

GC/MS VOA (Continued)

Analysis Batch: 217186 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68096-24	W3, S2, A 71117	Total/NA	Solid	8260C	217187
180-68096-25	W3, S2, B 71117	Total/NA	Solid	8260C	217187
180-68096-27	W3, S3, A 71117	Total/NA	Solid	8260C	217187
180-68096-28	W3, S3, B 71117	Total/NA	Solid	8260C	217187
180-68096-30	W3, S4, A 71117	Total/NA	Solid	8260C	217187
180-68096-31	W3, S4, B 71117	Total/NA	Solid	8260C	217187
180-68096-33	DUP-5	Total/NA	Solid	8260C	217187
MB 180-217186/9	Method Blank	Total/NA	Solid	8260C	
LCS 180-217186/4	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 180-217186/5	Lab Control Sample Dup	Total/NA	Solid	8260C	

Prep Batch: 217187

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68096-19	W3, S1 A 71117	Total/NA	Solid	5035	
180-68096-20	W3, S1 B 71117	Total/NA	Solid	5035	
180-68096-21	DUP-3	Total/NA	Solid	5035	
180-68096-24	W3, S2, A 71117	Total/NA	Solid	5035	
180-68096-25	W3, S2, B 71117	Total/NA	Solid	5035	
180-68096-27	W3, S3, A 71117	Total/NA	Solid	5035	
180-68096-28	W3, S3, B 71117	Total/NA	Solid	5035	
180-68096-30	W3, S4, A 71117	Total/NA	Solid	5035	
180-68096-31	W3, S4, B 71117	Total/NA	Solid	5035	
180-68096-33	DUP-5	Total/NA	Solid	5035	

Analysis Batch: 217200

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68096-37	TRIP BLANK 1	Total/NA	Water	8260C	
180-68096-38	TRIP BLANK 2	Total/NA	Water	8260C	
MB 180-217200/7	Method Blank	Total/NA	Water	8260C	
LCS 180-217200/4	Lab Control Sample	Total/NA	Water	8260C	
LCSD 180-217200/5	Lab Control Sample Dup	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 216880

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68096-3	W1, S5, C 71117	Total/NA	Solid	3541	
180-68096-6	W2, S1, C 71117	Total/NA	Solid	3541	
180-68096-9	W2, S2, C 71117	Total/NA	Solid	3541	
180-68096-12	W2, S3, C 71117	Total/NA	Solid	3541	
180-68096-15	W2, S4, C 71117	Total/NA	Solid	3541	
180-68096-18	W2, S5 C 71117	Total/NA	Solid	3541	
180-68096-22	DUP-4	Total/NA	Solid	3541	
180-68096-23	W3, S1, C 71117	Total/NA	Solid	3541	
180-68096-26	W3, S2, C 71117	Total/NA	Solid	3541	
180-68096-29	W3, S3, C 71117	Total/NA	Solid	3541	
180-68096-32	W3, S4, C 71117	Total/NA	Solid	3541	
180-68096-36	W3, S5, C 71117	Total/NA	Solid	3541	
MB 180-216880/1-A	Method Blank	Total/NA	Solid	3541	
LCS 180-216880/2-A	Lab Control Sample	Total/NA	Solid	3541	

GC/MS Semi VOA (Continued)

Prep Batch: 216880 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68096-6 MS	W2, S1, C 71117	Total/NA	Solid	3541	
180-68096-6 MSD	W2, S1, C 71117	Total/NA	Solid	3541	

Analysis Batch: 216940

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68096-3	W1, S5, C 71117	Total/NA	Solid	8270D LL	216880
180-68096-6	W2, S1, C 71117	Total/NA	Solid	8270D LL	216880
180-68096-9	W2, S2, C 71117	Total/NA	Solid	8270D LL	216880
180-68096-12	W2, S3, C 71117	Total/NA	Solid	8270D LL	216880
180-68096-15	W2, S4, C 71117	Total/NA	Solid	8270D LL	216880
180-68096-18	W2, S5 C 71117	Total/NA	Solid	8270D LL	216880
180-68096-22	DUP-4	Total/NA	Solid	8270D LL	216880
180-68096-23	W3, S1, C 71117	Total/NA	Solid	8270D LL	216880
MB 180-216880/1-A	Method Blank	Total/NA	Solid	8270D LL	216880
LCS 180-216880/2-A	Lab Control Sample	Total/NA	Solid	8270D LL	216880
180-68096-6 MS	W2, S1, C 71117	Total/NA	Solid	8270D LL	216880
180-68096-6 MSD	W2, S1, C 71117	Total/NA	Solid	8270D LL	216880

Analysis Batch: 217242

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68096-26	W3, S2, C 71117	Total/NA	Solid	8270D LL	216880
180-68096-29	W3, S3, C 71117	Total/NA	Solid	8270D LL	216880
180-68096-32	W3, S4, C 71117	Total/NA	Solid	8270D LL	216880
180-68096-36	W3, S5, C 71117	Total/NA	Solid	8270D LL	216880

GC Semi VOA

Prep Batch: 216879

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68096-3	W1, S5, C 71117	Total/NA	Solid	3541	
180-68096-6	W2, S1, C 71117	Total/NA	Solid	3541	
180-68096-9	W2, S2, C 71117	Total/NA	Solid	3541	
180-68096-12	W2, S3, C 71117	Total/NA	Solid	3541	
180-68096-15	W2, S4, C 71117	Total/NA	Solid	3541	
180-68096-18	W2, S5 C 71117	Total/NA	Solid	3541	
180-68096-22	DUP-4	Total/NA	Solid	3541	
180-68096-23	W3, S1, C 71117	Total/NA	Solid	3541	
180-68096-26	W3, S2, C 71117	Total/NA	Solid	3541	
180-68096-29	W3, S3, C 71117	Total/NA	Solid	3541	
180-68096-32	W3, S4, C 71117	Total/NA	Solid	3541	
180-68096-36	W3, S5, C 71117	Total/NA	Solid	3541	
MB 180-216879/1-C	Method Blank	Total/NA	Solid	3541	
LCS 180-216879/2-C	Lab Control Sample	Total/NA	Solid	3541	
180-68096-6 MS	W2, S1, C 71117	Total/NA	Solid	3541	
180-68096-6 MSD	W2, S1, C 71117	Total/NA	Solid	3541	

Cleanup Batch: 216929

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68096-3	W1, S5, C 71117	Total/NA	Solid	3665A	216879
180-68096-6	W2, S1, C 71117	Total/NA	Solid	3665A	216879

GC Semi VOA (Continued)

Cleanup Batch: 216929 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68096-9	W2, S2, C 71117	Total/NA	Solid	3665A	216879
180-68096-12	W2, S3, C 71117	Total/NA	Solid	3665A	216879
180-68096-15	W2, S4, C 71117	Total/NA	Solid	3665A	216879
180-68096-18	W2, S5 C 71117	Total/NA	Solid	3665A	216879
180-68096-22	DUP-4	Total/NA	Solid	3665A	216879
180-68096-23	W3, S1, C 71117	Total/NA	Solid	3665A	216879
180-68096-26	W3, S2, C 71117	Total/NA	Solid	3665A	216879
180-68096-29	W3, S3, C 71117	Total/NA	Solid	3665A	216879
180-68096-32	W3, S4, C 71117	Total/NA	Solid	3665A	216879
180-68096-36	W3, S5, C 71117	Total/NA	Solid	3665A	216879
MB 180-216879/1-C	Method Blank	Total/NA	Solid	3665A	216879
LCS 180-216879/2-C	Lab Control Sample	Total/NA	Solid	3665A	216879
180-68096-6 MS	W2, S1, C 71117	Total/NA	Solid	3665A	216879
180-68096-6 MSD	W2, S1, C 71117	Total/NA	Solid	3665A	216879

Cleanup Batch: 216930

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68096-3	W1, S5, C 71117	Total/NA	Solid	3660B	216929
180-68096-6	W2, S1, C 71117	Total/NA	Solid	3660B	216929
180-68096-9	W2, S2, C 71117	Total/NA	Solid	3660B	216929
180-68096-12	W2, S3, C 71117	Total/NA	Solid	3660B	216929
180-68096-15	W2, S4, C 71117	Total/NA	Solid	3660B	216929
180-68096-18	W2, S5 C 71117	Total/NA	Solid	3660B	216929
180-68096-22	DUP-4	Total/NA	Solid	3660B	216929
180-68096-23	W3, S1, C 71117	Total/NA	Solid	3660B	216929
180-68096-26	W3, S2, C 71117	Total/NA	Solid	3660B	216929
180-68096-29	W3, S3, C 71117	Total/NA	Solid	3660B	216929
180-68096-32	W3, S4, C 71117	Total/NA	Solid	3660B	216929
180-68096-36	W3, S5, C 71117	Total/NA	Solid	3660B	216929
MB 180-216879/1-C	Method Blank	Total/NA	Solid	3660B	216929
LCS 180-216879/2-C	Lab Control Sample	Total/NA	Solid	3660B	216929
180-68096-6 MS	W2, S1, C 71117	Total/NA	Solid	3660B	216929
180-68096-6 MSD	W2, S1, C 71117	Total/NA	Solid	3660B	216929

Analysis Batch: 217035

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68096-3	W1, S5, C 71117	Total/NA	Solid	8082A	216930
180-68096-6	W2, S1, C 71117	Total/NA	Solid	8082A	216930
180-68096-9	W2, S2, C 71117	Total/NA	Solid	8082A	216930
180-68096-12	W2, S3, C 71117	Total/NA	Solid	8082A	216930
180-68096-15	W2, S4, C 71117	Total/NA	Solid	8082A	216930
180-68096-18	W2, S5 C 71117	Total/NA	Solid	8082A	216930
180-68096-22	DUP-4	Total/NA	Solid	8082A	216930
180-68096-23	W3, S1, C 71117	Total/NA	Solid	8082A	216930
180-68096-26	W3, S2, C 71117	Total/NA	Solid	8082A	216930
180-68096-29	W3, S3, C 71117	Total/NA	Solid	8082A	216930
180-68096-32	W3, S4, C 71117	Total/NA	Solid	8082A	216930
180-68096-36	W3, S5, C 71117	Total/NA	Solid	8082A	216930
MB 180-216879/1-C	Method Blank	Total/NA	Solid	8082A	216930
LCS 180-216879/2-C	Lab Control Sample	Total/NA	Solid	8082A	216930
180-68096-6 MS	W2, S1, C 71117	Total/NA	Solid	8082A	216930

GC Semi VOA (Continued)

Analysis Batch: 217035 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68096-6 MSD	W2, S1, C 71117	Total/NA	Solid	8082A	216930

Metals

Prep Batch: 216920

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68096-3	W1, S5, C 71117	Total/NA	Solid	3050B	
180-68096-6	W2, S1, C 71117	Total/NA	Solid	3050B	
180-68096-9	W2, S2, C 71117	Total/NA	Solid	3050B	
180-68096-12	W2, S3, C 71117	Total/NA	Solid	3050B	
180-68096-15	W2, S4, C 71117	Total/NA	Solid	3050B	
180-68096-18	W2, S5 C 71117	Total/NA	Solid	3050B	
180-68096-22	DUP-4	Total/NA	Solid	3050B	
180-68096-23	W3, S1, C 71117	Total/NA	Solid	3050B	
180-68096-26	W3, S2, C 71117	Total/NA	Solid	3050B	
180-68096-29	W3, S3, C 71117	Total/NA	Solid	3050B	
180-68096-32	W3, S4, C 71117	Total/NA	Solid	3050B	
180-68096-36	W3, S5, C 71117	Total/NA	Solid	3050B	
MB 180-216920/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 180-216920/2-A	Lab Control Sample	Total/NA	Solid	3050B	
180-68096-6 MS	W2, S1, C 71117	Total/NA	Solid	3050B	
180-68096-6 MSD	W2, S1, C 71117	Total/NA	Solid	3050B	

Prep Batch: 217097

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68096-3	W1, S5, C 71117	Total/NA	Solid	7471B	
180-68096-6	W2, S1, C 71117	Total/NA	Solid	7471B	
180-68096-9	W2, S2, C 71117	Total/NA	Solid	7471B	
180-68096-12	W2, S3, C 71117	Total/NA	Solid	7471B	
180-68096-15	W2, S4, C 71117	Total/NA	Solid	7471B	
180-68096-18	W2, S5 C 71117	Total/NA	Solid	7471B	
180-68096-22	DUP-4	Total/NA	Solid	7471B	
180-68096-23	W3, S1, C 71117	Total/NA	Solid	7471B	
180-68096-26	W3, S2, C 71117	Total/NA	Solid	7471B	
180-68096-29	W3, S3, C 71117	Total/NA	Solid	7471B	
180-68096-32	W3, S4, C 71117	Total/NA	Solid	7471B	
180-68096-36	W3, S5, C 71117	Total/NA	Solid	7471B	
MB 180-217097/1-A	Method Blank	Total/NA	Solid	7471B	
LCS 180-217097/2-A	Lab Control Sample	Total/NA	Solid	7471B	
180-68096-6 MS	W2, S1, C 71117	Total/NA	Solid	7471B	
180-68096-6 MSD	W2, S1, C 71117	Total/NA	Solid	7471B	

Analysis Batch: 217205

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68096-3	W1, S5, C 71117	Total/NA	Solid	6010C	216920
180-68096-6	W2, S1, C 71117	Total/NA	Solid	6010C	216920
180-68096-9	W2, S2, C 71117	Total/NA	Solid	6010C	216920
180-68096-12	W2, S3, C 71117	Total/NA	Solid	6010C	216920
180-68096-15	W2, S4, C 71117	Total/NA	Solid	6010C	216920
180-68096-18	W2, S5 C 71117	Total/NA	Solid	6010C	216920

Metals (Continued)

Analysis Batch: 217205 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68096-22	DUP-4	Total/NA	Solid	6010C	216920
180-68096-23	W3, S1, C 71117	Total/NA	Solid	6010C	216920
180-68096-26	W3, S2, C 71117	Total/NA	Solid	6010C	216920
180-68096-29	W3, S3, C 71117	Total/NA	Solid	6010C	216920
180-68096-32	W3, S4, C 71117	Total/NA	Solid	6010C	216920
180-68096-36	W3, S5, C 71117	Total/NA	Solid	6010C	216920
MB 180-216920/1-A	Method Blank	Total/NA	Solid	6010C	216920
LCS 180-216920/2-A	Lab Control Sample	Total/NA	Solid	6010C	216920
180-68096-6 MS	W2, S1, C 71117	Total/NA	Solid	6010C	216920
180-68096-6 MSD	W2, S1, C 71117	Total/NA	Solid	6010C	216920

Analysis Batch: 217252

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68096-3	W1, S5, C 71117	Total/NA	Solid	7471B	217097
180-68096-6	W2, S1, C 71117	Total/NA	Solid	7471B	217097
180-68096-9	W2, S2, C 71117	Total/NA	Solid	7471B	217097
180-68096-12	W2, S3, C 71117	Total/NA	Solid	7471B	217097
180-68096-15	W2, S4, C 71117	Total/NA	Solid	7471B	217097
180-68096-18	W2, S5 C 71117	Total/NA	Solid	7471B	217097
180-68096-22	DUP-4	Total/NA	Solid	7471B	217097
180-68096-23	W3, S1, C 71117	Total/NA	Solid	7471B	217097
180-68096-26	W3, S2, C 71117	Total/NA	Solid	7471B	217097
180-68096-29	W3, S3, C 71117	Total/NA	Solid	7471B	217097
180-68096-32	W3, S4, C 71117	Total/NA	Solid	7471B	217097
180-68096-36	W3, S5, C 71117	Total/NA	Solid	7471B	217097
MB 180-217097/1-A	Method Blank	Total/NA	Solid	7471B	217097
LCS 180-217097/2-A	Lab Control Sample	Total/NA	Solid	7471B	217097
180-68096-6 MS	W2, S1, C 71117	Total/NA	Solid	7471B	217097
180-68096-6 MSD	W2, S1, C 71117	Total/NA	Solid	7471B	217097

General Chemistry

Analysis Batch: 216865

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68096-1	W1, S5, A 71117	Total/NA	Solid	2540G	
180-68096-2	W1, S5, B 71117	Total/NA	Solid	2540G	
180-68096-3	W1, S5, C 71117	Total/NA	Solid	2540G	
180-68096-4	W2, S1, A 71117	Total/NA	Solid	2540G	
180-68096-5	W2, S1, B 71117	Total/NA	Solid	2540G	
180-68096-6	W2, S1, C 71117	Total/NA	Solid	2540G	
180-68096-7	W2, S2, A 71117	Total/NA	Solid	2540G	
180-68096-8	W2, S2, B 71117	Total/NA	Solid	2540G	
180-68096-9	W2, S2, C 71117	Total/NA	Solid	2540G	
180-68096-10	W2, S3, A 71117	Total/NA	Solid	2540G	
180-68096-11	W2, S3, B 71117	Total/NA	Solid	2540G	
180-68096-12	W2, S3, C 71117	Total/NA	Solid	2540G	
180-68096-13	W2, S4, A 71117	Total/NA	Solid	2540G	
180-68096-14	W2, S4, B 71117	Total/NA	Solid	2540G	
180-68096-15	W2, S4, C 71117	Total/NA	Solid	2540G	
180-68096-16	W2, S5 A 71117	Total/NA	Solid	2540G	

General Chemistry (Continued)

Analysis Batch: 216865 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68096-17	W2, S5 B 71117	Total/NA	Solid	2540G	
180-68096-9 DU	W2, S2, C 71117	Total/NA	Solid	2540G	

Analysis Batch: 216870

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68096-18	W2, S5 C 71117	Total/NA	Solid	2540G	
180-68096-19	W3, S1 A 71117	Total/NA	Solid	2540G	
180-68096-20	W3, S1 B 71117	Total/NA	Solid	2540G	
180-68096-21	DUP-3	Total/NA	Solid	2540G	
180-68096-22	DUP-4	Total/NA	Solid	2540G	
180-68096-23	W3, S1, C 71117	Total/NA	Solid	2540G	
180-68096-24	W3, S2, A 71117	Total/NA	Solid	2540G	
180-68096-25	W3, S2, B 71117	Total/NA	Solid	2540G	
180-68096-26	W3, S2, C 71117	Total/NA	Solid	2540G	
180-68096-27	W3, S3, A 71117	Total/NA	Solid	2540G	
180-68096-28	W3, S3, B 71117	Total/NA	Solid	2540G	
180-68096-29	W3, S3, C 71117	Total/NA	Solid	2540G	
180-68096-30	W3, S4, A 71117	Total/NA	Solid	2540G	
180-68096-31	W3, S4, B 71117	Total/NA	Solid	2540G	
180-68096-32	W3, S4, C 71117	Total/NA	Solid	2540G	
180-68096-33	DUP-5	Total/NA	Solid	2540G	
180-68096-34	W3, S5, A 71117	Total/NA	Solid	2540G	
180-68096-35	W3, S5, B 71117	Total/NA	Solid	2540G	
180-68096-36	W3, S5, C 71117	Total/NA	Solid	2540G	
180-68096-18 DU	W2, S5 C 71117	Total/NA	Solid	2540G	
180-68096-28 DU	W3, S3, B 71117	Total/NA	Solid	2540G	

Prep Batch: 216972

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68096-3	W1, S5, C 71117	Total/NA	Solid	9010C	
180-68096-6	W2, S1, C 71117	Total/NA	Solid	9010C	
180-68096-9	W2, S2, C 71117	Total/NA	Solid	9010C	
180-68096-12	W2, S3, C 71117	Total/NA	Solid	9010C	
180-68096-15	W2, S4, C 71117	Total/NA	Solid	9010C	
180-68096-18	W2, S5 C 71117	Total/NA	Solid	9010C	
180-68096-22	DUP-4	Total/NA	Solid	9010C	
180-68096-23	W3, S1, C 71117	Total/NA	Solid	9010C	
180-68096-26	W3, S2, C 71117	Total/NA	Solid	9010C	
180-68096-29	W3, S3, C 71117	Total/NA	Solid	9010C	
180-68096-32	W3, S4, C 71117	Total/NA	Solid	9010C	
180-68096-36	W3, S5, C 71117	Total/NA	Solid	9010C	
MB 180-216972/4-A	Method Blank	Total/NA	Solid	9010C	
HLCS 180-216972/2-A	Lab Control Sample	Total/NA	Solid	9010C	
LCS 180-216972/3-A	Lab Control Sample	Total/NA	Solid	9010C	
LLCS 180-216972/1-A	Lab Control Sample	Total/NA	Solid	9010C	
180-68096-6 MS	W2, S1, C 71117	Total/NA	Solid	9010C	
180-68096-6 MSD	W2, S1, C 71117	Total/NA	Solid	9010C	

Analysis Batch: 217087

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68096-3	W1, S5, C 71117	Total/NA	Solid	9014	216972

General Chemistry (Continued)

Analysis Batch: 217087 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68096-6	W2, S1, C 71117	Total/NA	Solid	9014	216972
180-68096-9	W2, S2, C 71117	Total/NA	Solid	9014	216972
180-68096-12	W2, S3, C 71117	Total/NA	Solid	9014	216972
180-68096-15	W2, S4, C 71117	Total/NA	Solid	9014	216972
180-68096-18	W2, S5 C 71117	Total/NA	Solid	9014	216972
180-68096-22	DUP-4	Total/NA	Solid	9014	216972
180-68096-23	W3, S1, C 71117	Total/NA	Solid	9014	216972
180-68096-26	W3, S2, C 71117	Total/NA	Solid	9014	216972
180-68096-29	W3, S3, C 71117	Total/NA	Solid	9014	216972
180-68096-32	W3, S4, C 71117	Total/NA	Solid	9014	216972
180-68096-36	W3, S5, C 71117	Total/NA	Solid	9014	216972
MB 180-216972/4-A	Method Blank	Total/NA	Solid	9014	216972
HLCS 180-216972/2-A	Lab Control Sample	Total/NA	Solid	9014	216972
LCS 180-216972/3-A	Lab Control Sample	Total/NA	Solid	9014	216972
LLCS 180-216972/1-A	Lab Control Sample	Total/NA	Solid	9014	216972
180-68096-6 MS	W2, S1, C 71117	Total/NA	Solid	9014	216972
180-68096-6 MSD	W2, S1, C 71117	Total/NA	Solid	9014	216972

TestAmerica Pittsburgh
301 Alpha Drive RIDC Park
Pittsburgh, PA 15238
Phone (412) 963-7058 Fax (412) 963-2468

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

180-68096 Chain of Custody

Client Information	Sampler: AFT AR	Lab PM: Dunlap, David A	No: -38453-8381.1
Client Contact: Ashwin Ranna / Aron Krasnopoler	Phone: 412 5524758	E-Mail: david.dunlap@testamer	Page: Page 1 of 4
Company: Geosyntec Consultants, Inc.			Job #:
Address: Penn Center West One, Suite 402 1 Penn Center West Drive	Due Date Requested:		
City: Pittsburgh	TAT Requested (days): 10 Days 3 day at as per Aron Krasnopoler 7/12/17		
State, Zip: PA, 15276	PO #: MN0832B		
Phone:	WO #:		
Email: aranna@geosyntec.com akrasnopoler@geosyntec.com	Project #: 18013464		
Project Name: Former Sperry Remington Site - North IRM	SSOW#:		
Site:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - VOA-Select List	6010C, 7471B, 9014	8082A, 8270D_LL	8260C_LL - VOA-Select List	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	A		
W1,SS,A 7/11/17	7/11/2017	1015	G	Solid	N	N	X				4	
W1,SS,B 7/11/17	7/11/2017	1020	G	Solid	N	N	X				4	
W1,SS,C 7/11/17	7/11/2017	1025	C	Solid	N	N		X	X		2	
W2,S1,A 7/11/17	7/11/2017	1045	G	Solid	N	Y	X				12	Perform MS/MSD
W2,S1,B 7/11/17	7/11/2017	1050	G	Solid	N	N	X				4	
W2,S1,C 7/11/17	7/11/2017	1055	C	Solid	N	Y		X	X		6	Perform MS/MSD
W2,S2,A 7/11/17	7/11/2017	1115	G	Solid	N	N	X				4	
W2,S2,B 7/11/17	7/11/2017	1120	G	Solid	N	N	X				4	
W2,S2,C 7/11/17	7/11/2017	1125	C	Solid	N	N		X	X		2	
W2,S3,A 7/11/17	7/11/2017	1145	G	Solid	N	N	X				4	
W2,S3,B 7/11/17	7/11/2017	1150	G	Solid	N	N	X				4	

Run
Run

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Alex Ambrosino	7.11.2017 1645	Geosyntec	Dellie Watson	7-12-17 9:10	TAL
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

7/18/2017

TestAmerica Pittsburgh
301 Alpha Drive RIDC Park
Pittsburgh, PA 15238
Phone (412) 963-7058 Fax (412) 963-2468

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Alex Ambrosino	Lab PM: Dunlap, David A	Carrier Tracking No(s):	COC No: 180-38453-8381.2
Client Contact: Ashwin Ranna / Aron Krasnopoler	Phone: 4125524758	E-Mail: david.dunlap@testamericainc.com		Page: Page 2 of 4
Company: Geosyntec Consultants, Inc.				Job #:
Address: Penn Center West One, Suite 402 1 Penn Center West Drive	Due Date Requested:			
City: Pittsburgh	TAT Requested (days): 1 Day - 3 days after Krasnopoler DUE 7/12/17			
State, Zip: PA, 15276	PO #: MN0832B			
Phone:	WO #:			
Email: aranna@geosyntec.com akrasnopoler@geosyntec.com	Project #: 18013464			
Project Name: Former Sperry Remington Site - North IRM	SSOW#:			
Site:				

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - VOA-Select List	6010C, 7471B, 9014	8082A, 8270D_LL	8260C_LL - VOA-Select List	Total Number of containers	Special Instructions/Note:
Preservation Code:							N	N	N	A		
W2,S3,C 71117	7/11/2017	1155	C	Solid	N	N		X	X		2	Rush
W2,S4,A 71117	7.11.2017	1215	G	Solid	N	N	X				4	
W2,S4,B 71117	7.11.2017	1220	G	Solid	N	N	X				4	
W2,S4,C 71117	7.11.2017	1225	C	Solid	N	N		X	X		2	
W2,S5,A 71117	7.11.2017	1245	G	Solid	N	N	X				4	
W2,S5,B 71117	7.11.2017	1250	G	Solid	N	N	X				4	
W2,S5,C 71117	7.11.2017	1255	C	Solid	N	N		X	X		2	
W3,S1,A 71117	7.11.2017	1315	G	Solid	N	N	X				4	
W3,S2,B 71117	7.11.2017	1320	G	Solid	N	N	X				4	
DUP-3	7.11.2017	—	G	Solid	N	N	X				4	
DUP-4	7.11.2017	—	C	Solid	N	N		X	X		2	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Alex Ambrosino	7.11.2017 1845	Geosyntec	Ashley Walton	7-12-17 9:10	TAT
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

TestAmerica Pittsburgh
301 Alpha Drive RIDC Park
Pittsburgh, PA 15238
Phone (412) 963-7058 Fax (412) 963-2468

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: AA+AK	Lab PM: Dunlap, David A	Carrier Tracking No(s):	COC No: 180-38453-8381.3
Client Contact: Ashwin Ranna Aron Krasnopoler	Phone: 4125524758	E-Mail: david.dunlap@testamericainc.com		Page: Page 3 of 4
Company: Geosyntec Consultants, Inc.				Job #:
Address: Penn Center West One, Suite 402 1 Penn Center West Drive	Due Date Requested:	Analysis Requested		
City: Pittsburgh	TAT Requested (days): 1 Day, 3 day upon Aron Krasnopoler 7/12/17			
State, Zip: PA, 15276	PO #: MN0832B			
Phone:	WO #:			
Email: aranna@geosyntec.com akrasnopoler@geosyntec.com	Project #: 18013464			
Project Name: Former Sperry Remington Site - North IRM	SSOW#:			
Site:				

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - VOA-Select List	6010C, 7471B, 9014	8082A, 8270D_LL	8260C_LL - VOA-Select List	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	A		
W3,S1,C 71117	7.11.2017	1325	C	Solid	N	N		X	X		2	
W3,S2,A 71117	7.11.2017	1345	G	Solid	N	N	X				4	
W3,S2,B 71117	7.11.2017	1350	G	Solid	N	N	X				4	
W3,S2,C 71117	7.11.2017	1355	C	Solid	N	N		X	X		2	
W3,S3,A 71117	7.11.2017	1415	G	Solid	N	N	X				4	
W3,S3,B 71117	7.11.2017	1420	G	Solid	N	N	X				4	
W3,S3,C 71117	7.11.2017	1425	C	Solid	N	N		X	X		2	
W3,S4,A 71117	7.11.2017	1445	G	Solid	N	N	X				4	
W3,S4,B 71117	7.11.2017	1450	G	Solid	N	N	X				4	
W3,S4,C 71117	7.11.2017	1455	C	Solid	N	N		X	X		2	
DUP-5	7.11.2017	—	G	Solid	N	N	X				4	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Alex Ambrosino	7.11.2017 / 1845	Geosyntec	Dallas Watson	7-12-17 9:10	TAP
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

TestAmerica Pittsburgh
301 Alpha Drive RIDC Park
Pittsburgh, PA 15238
Phone (412) 963-7058 Fax (412) 963-2468

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: AA, AR	Lab PM: Dunlap, David A	Carrier Tracking No(s):	COC No: 180-38453-8381.4
Client Contact: Ashwin Ranna from kraspopoler	Phone: 412 5524758	E-Mail: david.dunlap@testamericainc.com		Page: Page 4 of 4
Company: Geosyntec Consultants, Inc.				Job #:

Address: Penn Center West One, Suite 402 1 Penn Center West Drive	Due Date Requested:	Analysis Requested	Preservation Codes:
City: Pittsburgh	TAT Requested (days): Pay 3 day per Kraspopoler PO 7/12/17		A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
State, Zip: PA, 15276			
Phone:	PO #: MN0832B		
Email: aranna@geosyntec.com akraspopler@geosyntec.com	WO #:		Other:
Project Name: Former Sperry Remington Site - North IRM	Project #: 18013464		
Site:	SSOW#:		

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - VOA-Select List	6010C, 7471B, 9014	8082A, 8270D_LL	8260C_LL - VOA-Select List	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	A		
W3,SS, A 7117	7.11.2017	1515	G	Solid	N	N	X				4	Rush
W3,SS, B 7117	7.11.2017	1520	G	Solid	N	N	X				4	
W3,SS, C 7117	7.11.2017	1525	C	Solid	N	N		X	X		2	
Trip Blank	—	—	—	Solid	—					X	2	
Trip Blank	—	—	—	Solid	—					X	2	
				Solid								
				Solid								
				Solid								
				Solid								
				Solid								
				Solid								

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Alex Ambrosino	7.11.2017 1845	Geosyntec	Phillie Watson	7.12.17 9:10	TAP
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 180-68096-1

Login Number: 68096
List Number: 1
Creator: Dunlap, David A

List Source: TestAmerica Pittsburgh

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	False	trip blank
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Geosyntec consultants

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Knoxville, TN 37922
PH 865.330.0037
www.geosyntec.com

Memorandum

Date:	17 July 2017
To:	Aron Krasnopoler
From:	Mary Tyler
CC:	J. Caprio
Subject:	**Stage 2A Data Validation - Level II Data Deliverable, TestAmerica Job ID 180-68037-1**

SITE: Former Sperry Remington Site-North IRM

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of twelve solid samples and two field duplicate samples, collected July 10, 2017, as part of the Former Sperry Remington Site-North IRM project. The analyses were performed at TestAmerica Laboratories, Inc., Pittsburgh, Pennsylvania. The samples were analyzed for the following tests:

- Volatile Organic Compounds (VOCs) by EPA Methods 5035/8260C
- Semivolatile Organic Compounds (SVOCs) by EPA Methods 3541/8270D
- Polychlorinated Biphenyls (PCBs) by EPA Methods 3541/8082A
- Metals by EPA Methods 3050B/6010C
- Mercury by EPA Method 7471B
- Total Cyanide by EPA Method 9014
- Total Solids by Standard Method 2540G

EXECUTIVE SUMMARY

The samples were handled, prepared, and measured in the same manner under similar prescribed conditions.

Overall, based on this Stage 2A data validation covering the quality control (QC) parameters listed below, the data as qualified are usable for meeting project objectives. Qualified data should be used within the limitations of the qualification.

The data were validated the Quality Assurance Project Plan (QAPP) for Former Sperry Remington Facility Industrial Outfall Site, Elmira, New York, NYSDEC Site I.D. # 808043, NY09-2480-04,

July 7, 2010, Revised November 11, 2010, USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review, January 2017 (EPA 540-R-2017-002), USEPA Contract Laboratory Program National Functional Guidelines for Superfund Inorganic Methods Data Review, January 2017 (EPA 540-R-2017-001), the pertinent methods referenced by the laboratory report and professional and technical judgment.

The following samples were analyzed and validated at Stage 2A level in the data sets:

Laboratory ID	Client ID
180-68037-1	DUP2
180-68037-2	WINDROW1, SEC 3, C
180-68037-3	WINDROW1, SEC 3, B
180-68037-4	WINDROW1, SEC 4, C
180-68037-5	DUP1
180-68037-6	WINDROW1, SEC 3, A
180-68037-7	WINDROW1, SEC 4, B

Laboratory ID	Client ID
180-68037-8	WINDROW1, SEC 2, C
180-68037-9	WINDROW1, SEC 2, A
180-68037-10	WINDROW1, SEC 1, A
180-68037-11	WINDROW1, SEC 1, C
180-68037-12	WINDROW1, SEC 4, A
180-68037-13	WINDROW1, SEC 2, B
180-68037-14	WINDROW1, SEC 1, B

The samples were received at the laboratory at 1.9-2.3^{o}C, within the criteria of 0-6°C. No sample preservation issues were noted by the laboratory.

The following issues were noted with the chain of custody (COC):

- Incorrect error corrections were observed on the COC, instead of the proper procedure of a single strike through, correction, and initials and date of person making the corrections.
- No collection times were listed on the COC for the field duplicate samples; the laboratory assigned collection times of 00:00.
- There was no relinquishing signature on the first page of the COC and no relinquishing documentation (no signature, date or time) on the second page of the COC.
- The laboratory edited the analyses requested for field duplicate DUP1; the analyses were crossed off with the exception of the VOCs.
- A trip blank was listed on the COC for VOC analysis, but was not reported in this laboratory report.

The solids data, used to report the samples on a dry weight basis, were not validated.

1.0 VOLATILE ORGANIC COMPOUNDS

The samples were analyzed for VOCs by EPA methods 5035/8260B.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Surrogates
- ✓ Trip Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

1.1 Overall Assessment

The VOC data reported in this package are considered usable for meeting project objectives. The analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this package is 100%.

The narrative indicated that the continuing calibration verification (CCV) percent difference (%D) for vinyl chloride was high, outside method specified acceptance criteria. The %D was 20.1%; the method specified acceptance criteria is 20%D. Therefore, no qualifications were applied to the data.

1.2 Holding Times

The holding time for the VOC analysis of a preserved solid sample collected as a terracore is 48 hours until laboratory receipt and 14 days from sample collection to analysis. The holding times were met for the sample analyses.

1.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 216673). VOCs were not detected in the method blank above the method detection limits (MDLs).

1.4 Matrix Spike/Matrix Spike Duplicate (MS/MSD)

MS/MSD pairs were not reported.

1.5 Laboratory Control Sample (LCS)

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS/laboratory control sample duplicate (LCSD) pair was reported. The recovery and relative percent difference (RPD) results were within the laboratory specified acceptance criteria.

1.6 Surrogates

Acceptable surrogate recoveries were reported.

1.7 Trip Blank

A trip blank accompanied the samples, but was not reported in this laboratory report. Since the VOC results in the data set were non-detect, the trip blank results have no effect on the results.

1.8 Field Duplicate

Two field duplicates were collected with the sample set. One field duplicate was analyzed for VOCs, DUP1. Acceptable precision [RPD <40% for results greater than five times the reporting limit (RL) and ±2 times the RL for results less than five times the RL] was demonstrated between the field duplicates and the original sample, Windrow 1,Sec 3, A. The RPDs between the results were 0%.

1.9 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were not reported.

1.10 Electronic Data Deliverable (EDD) Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

2.0 SEMIVOLATILE ORGANIC COMPOUNDS

The samples were analyzed for SVOCs by EPA methods 3541/8270D.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

✓ Overall Assessment
✓ Holding Times
✓ Method Blank
⊗ Matrix Spike/Matrix Spike Duplicate
✓ Laboratory Control Sample
✓ Surrogates
⊗ Field Duplicate
✓ Sensitivity
✓ Electronic Data Deliverable Review

2.1 Overall Assessment

The SVOC data reported in this package are considered usable for meeting project objectives. The analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this package is 100%.

2.2 Holding Times

The holding times for SVOC analysis of solid samples are 14 days from sample collection to extraction and 40 days from extraction to analysis. The holding times were met for the sample analyses.

2.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 216675). SVOCs were not detected in the method blank above the MDLs.

2.4 Matrix Spike/Matrix Spike Duplicate

MS/MSD pairs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). A sample set specific MS/MSD pair was reported, using sample DUP2. The recovery and RPD results were within the laboratory specified acceptance criteria, with the following exceptions.

One of both of the recoveries of the following compounds were high and outside the laboratory specified acceptance criteria: Anthracene, benzo[k]fluoranthene, dibenzofuran, fluoranthene, phenanthrene and pyrene. Since dibenzofuran was not detected in sample DUP2, no qualifications were applied to the data. However, based on professional and technical judgment, the concentrations of anthracene, benzo[k]fluoranthene, fluoranthene, phenanthrene and pyrene in both sample DUP2 and its associated original sample, WINDROW1, SEC 3, C, were J qualified as estimated.

Sample	Compound	Laboratory Result (mg/kg)	Laboratory Flag	Validation Result (mg/kg)	Validation Qualifier*	Reason Code**
DUP2	Anthracene	0.22	F1	0.22	J	4
DUP2	Benzo[k]fluoranthene	0.23	F1	0.23	J	4
DUP2	Fluoranthene	0.45	F1	0.45	J	4
DUP2	Phenanthrene	0.21	F1	0.21	J	4
DUP2	Pyrene	0.81	F1	0.81	J	4
WINDROW1, SEC 3, C	Anthracene	0.18	NA	0.18	J	4
WINDROW1, SEC 3, C	Benzo[k]fluoranthene	0.23	NA	0.23	J	4
WINDROW1, SEC 3, C	Fluoranthene	0.64	NA	0.64	J	4
WINDROW1, SEC 3, C	Phenanthrene	0.39	NA	0.39	J	4
WINDROW1, SEC 3, C	Pyrene	0.82	NA	0.82	J	4

mg/kg-milligrams per kilogram
F1-laboratory flag indicating the MS and/or MSD recovery is outside acceptance limits
NA-not applicable
* Validation qualifiers are defined in Attachment 1 at the end of this report
**Reason codes are defined in Attachment 2 at the end of this report

2.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery results were within the laboratory specified acceptance criteria.

2.6 Surrogates

Acceptable surrogate recoveries were reported.

2.7 Field Duplicate

Two field duplicates were collected with the sample set. One field duplicate was analyzed for SVOCs, DUP2. Acceptable precision [RPD <40% for results greater than five times the RL and ±2 times the RL for results less than five times the RL] was demonstrated between the field duplicates and the original sample, Windrow 1,Sec 3, C, with the following exceptions.

The field duplicate acceptance criteria were not met for acenaphthylene and phenanthrene. Therefore, the concentrations of acenaphthylene and phenanthrene in the field duplicate pair were J qualified as estimated. The qualifications due to the field duplicate results are summarized below.

Sample	Compound	Laboratory Result (mg/kg)	Laboratory Flag	RPD	Validation Result (mg/kg)	Validation Qualifier	Reason Code
DUP2	Acenaphthylene	0.46	NA	59	0.46	J	7
WINDROW1, SEC 3, C	Acenaphthylene	0.25	NA		0.25	J	7
DUP2	Phenanthrene	0.21	F1	60	0.21	J	7
WINDROW1, SEC 3, C	Phenanthrene	0.39	NA		0.39	J	7

mg/kg-milligrams per kilogram
F1-laboratory flag indicating the MS and/or MSD recovery is outside acceptance limits
NA-not applicable

2.8 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were reported due to the dilutions analyzed.

2.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II reports and the EDDs.

3.0 POLYCHLORINATED BIPHENYLS

The samples were analyzed for PCBs by EPA Methods 3541/8082A.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

⊗ Overall Assessment
✓ Holding Times
✓ Method Blank
✓ Matrix Spike/Matrix Spike Duplicate
✓ Laboratory Control Sample
✓ Surrogates
✓ Field Duplicate
✓ Sensitivity
✓ Electronic Data Deliverable Review

3.1 Overall Assessment

The PCB data reported in this package are considered usable for meeting project objectives. The analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this sample set is 100%.

The samples contain mixtures of PCBs 1248, 1254 and 1260. There are peaks in 1248 and 1254 that are in both of these PCBs and peaks in 1254 and 1260 that are in both of these PCBs; therefore, there is contribution between PCBs when more than one PCB is detected in a sample. Therefore, based on professional and technical judgment, the concentrations of PCBs PCBs 1248, 1254 and 1260 in these samples were J qualified as estimated.

Sample ID	Compound	Laboratory Concentration (mg/kg)	Laboratory Flag	Validation Concentration (mg/kg)	Validation Qualifier	Reason Code
DUP2	PCB-1248	1.1	NA	1.1	J	13
DUP2	PCB-1254	0.70	NA	0.70	J	13
DUP2	PCB-1260	0.17	NA	0.17	J	13
WINDROW1, SEC 1, C	PCB-1248	1.3	NA	1.3	J	13
WINDROW1, SEC 1, C	PCB-1254	0.82	NA	0.82	J	13
WINDROW1, SEC 1, C	PCB-1260	0.22	NA	0.22	J	13
WINDROW1, SEC 2, C	PCB-1248	1.1	NA	1.1	J	13

Sample ID	Compound	Laboratory Concentration (mg/kg)	Laboratory Flag	Validation Concentration (mg/kg)	Validation Qualifier	Reason Code
WINDROW1, SEC 2, C	PCB-1254	0.68	NA	0.68	J	13
WINDROW1, SEC 2, C	PCB-1260	0.18	NA	0.18	J	13
WINDROW1, SEC 3, C	PCB-1248	1.0	NA	1.0	J	13
WINDROW1, SEC 3, C	PCB-1254	0.67	NA	0.67	J	13
WINDROW1, SEC 3, C	PCB-1260	0.17	NA	0.17	J	13
WINDROW1, SEC 4, C	PCB-1248	0.91	NA	0.91	J	13
WINDROW1, SEC 4, C	PCB-1254	0.60	NA	0.60	J	13
WINDROW1, SEC 4, C	PCB-1260	0.17	NA	0.17	J	13

mg/kg-milligrams per kilogram
NA-not applicable

3.2 Holding Times

The holding times for the PCB analysis of solids are 14 days from sample collection to extraction and 40 days from extraction to analysis. The holding times were met for the sample analyses.

3.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 216674). PCBs were not detected in the method blank above the MDLs.

3.4 Matrix Spike/Matrix Spike Duplicate

MS/MSD pairs were not reported.

3.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery results were within the laboratory specified acceptance criteria.

3.6 Surrogates

Acceptable surrogate recoveries were reported.

3.7 Field Duplicate

Two field duplicates were collected with the sample set. One field duplicate was analyzed for PCBs, DUP2. Acceptable precision [RPD <40% for results greater than five times the RL and ±2 times the RL for results less than five times the RL] was demonstrated between the field duplicates and the original sample, Windrow 1,Sec 3, C.

3.8 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were not reported.

3.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No other discrepancies were identified between the level II report and the EDD.

5.0 METALS

The samples were analyzed for metals by EPA methods 3050B/6010C (Mercury evaluated separately in Section 6.0, below).

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

5.1 Overall Assessment

The metals data reported in this package are considered usable for meeting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this package is 100%.

5.2 Holding Times

The holding time for metals analysis of solid samples is 180 days from sample collection to analysis. The holding times were met for the sample analyses.

5.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 216814). The metals were not detected in the method blank above the MDLs.

5.4 Matrix Spike/Matrix Spike Duplicate

MS/MSD pairs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). A sample set specific MS/MSD pair was reported, using sample DUP2. The recovery and RPD results were within the laboratory specified acceptance criteria.

5.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery results were within the laboratory specified acceptance criteria.

5.6 Laboratory Duplicate

A laboratory duplicate was not reported with the sample set.

5.7 Field Duplicate

Two field duplicates were collected with the sample set. One field duplicate was analyzed for metals, DUP2. Acceptable precision [RPD <40% for results greater than five times the RL and ±2 times the RL for results less than five times the RL] was demonstrated between the field duplicates and the original sample, Windrow 1,Sec 3, C.

5.8 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were not reported.

5.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

6.0 MERCURY

The samples were analyzed for mercury by EPA methods 7471B.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

✓ Overall Assessment
✓ Holding Times
✓ Method Blank
✓ Matrix Spike/Matrix Spike Duplicate
✓ Laboratory Control Sample
✓ Laboratory Duplicate
⊗ Field Duplicate
✓ Sensitivity
✓ Electronic Data Deliverable Review

6.1 Overall Assessment

The mercury data reported in this package are considered usable for meeting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this package is 100%.

6.2 Holding Times

The holding time for the mercury analysis of solid samples is 28 days from sample collection to analysis. The holding times were met for the sample analyses.

6.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 216844). Mercury was not detected in the method blank above the MDL.

6.4 Matrix Spike/Matrix Spike Duplicate

MS/MSD pairs were not reported.

6.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery result was within the laboratory specified acceptance criteria.

6.6 Laboratory Duplicate

A laboratory duplicate was not reported.

6.7 Field Duplicate

Two field duplicates were collected with the sample set. One field duplicate was analyzed for mercury, DUP2. Acceptable precision [RPD <40% for results greater than five times the RL and ±2 times the RL for results less than five times the RL] was not demonstrated between the field duplicates and the original sample, Windrow 1,Sec 3, C. The RPD was high and outside the field duplicate acceptance criteria. Therefore, the concentrations of mercury in the field duplicate pair were J qualified as estimated.

Sample	Compound	Laboratory Result (mg/kg)	Laboratory Flag	RPD	Validation Result (mg/kg)	Validation Qualifier	Reason Code
DUP2	Mercury	0.26	NA	53	0.26	J	7
WINDROW1, SEC 3, C	Mercury	0.45	NA		0.45	J	7

mg/kg-milligrams per kilogram
NA-not applicable

6.8 Sensitivity

The samples were reported to the MDL. Elevated non-detect results were not reported.

6.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

7.0 TOTAL CYANIDE

The samples were analyzed for total cyanide by EPA Methods 9014.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Equipment Blank
- ✓ Sensitivity
- ✓ Electronic Data Deliverables Review

7.1 Overall Assessment

The cyanide data reported in this package are considered usable for meeting project objectives. The analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this package is 100%.

7.2 Holding Times

The holding time for the cyanide analysis of solid samples is 14 days from sample collection to analysis. The holding times were met for the sample analyses.

7.3 Method Blanks

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 216711). Cyanide was not detected in the method blank above the MDL.

7.4 Matrix Spike

MS/MSD pairs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). A sample set specific MS/MSD pair was reported, using sample WINDROW1, SEC 3, C. The recovery and RPD results were within the laboratory specified acceptance criteria.

7.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Three LCSs were reported. The recovery results were within the laboratory specified acceptance criteria.

7.6 Laboratory Duplicate

A laboratory duplicate was not reported.

7.7 Field Duplicate

Two field duplicates were collected with the sample set. One field duplicate was analyzed for cyanide, DUP2. Acceptable precision [RPD <40% for results greater than five times the RL and ±2 times the RL for results less than five times the RL] was demonstrated between the field duplicates and the original sample, Windrow 1,Sec 3, C.

7.8 Sensitivity

The samples were reported to the MDL. Elevated non-detect results were not reported.

7.9 Electronic Data Deliverables Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

* * * * *

ATTACHMENT 1
DATA VALIDATION QUALIFIER DEFINITIONS AND INTERPRETATION KEY
Assigned by Geosyntec's Data Validation Team

DATA QUALIFIER DEFINITIONS

U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

J+ The analyte was positively identified; however, the associated numerical value is likely to be higher that the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.

J- The analyte was positively identified; however, the associated numerical value is likely to be lower that the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ATTACHMENT 2
DATA VALIDATION REASON CODES
Assigned by Geosyntec's Data Validation Team

Valid Value	Description
1	Preservation requirement not met
2	Analysis holding time exceeded
3	Blank contamination (i.e., method, trip, equipment, etc.)
4	Matrix spike/matrix spike duplicate recovery or RPD outside limits
5	LCS recovery outside limits
6	Surrogate recovery outside limits
7	Field Duplicate RPD exceeded
8	Serial dilution percent difference exceeded
9	Calibration criteria not met
10	Linear range exceeded
11	Internal standard criteria not met
12	Lab duplicates RPD exceeded
13	Other

RPD-relative percent difference

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Memorandum

Date:	18 July 2017
To:	Aron Krasnopoler
From:	Mary Tyler
CC:	J. Caprio
Subject:	**Stage 2A Data Validation - Level II Data Deliverable, TestAmerica Job ID 180-68096-1**

SITE: Former Sperry Remington Site-North IRM

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of thirty-three solid samples, including two samples for matrix spike/matrix spike duplicate (MS/MSD) analyses, three field duplicate samples and two trip blanks, collected July 11, 2017, as part of the Former Sperry Remington Site-North IRM project. The analyses were performed at TestAmerica Laboratories, Inc., Pittsburgh, Pennsylvania. The samples were analyzed for the following tests:

- Volatile Organic Compounds (VOCs) by EPA Methods 5035/8260C
- Semivolatile Organic Compounds (SVOCs) by EPA Methods 3541/8270D
- Polychlorinated Biphenyls (PCBs) by EPA Methods 3541/8082A
- Metals by EPA Methods 3050B/6010C
- Mercury by EPA Method 7471B
- Total Cyanide by EPA Method 9014
- Total Solids by Standard Method 2540G

EXECUTIVE SUMMARY

The samples were handled, prepared, and measured in the same manner under similar prescribed conditions.

Overall, based on this Stage 2A data validation covering the quality control (QC) parameters listed below, the data as qualified are usable for meeting project objectives, with the following exception. Since there were no recoveries (0%) of pentachlorophenol in the MS/MSD pair, the nondetect result of pentachlorophenol in sample W2, S1, C 71117 was R qualified as rejected.

The remaining qualified data should be used within the limitations of the qualifications.

The data were validated based on the Quality Assurance Project Plan (QAPP) for Former Sperry Remington Facility Industrial Outfall Site, Elmira, New York, NYSDEC Site I.D. # 808043, NY09-2480-04, July 7, 2010, Revised November 11, 2010, USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review, January 2017 (EPA 540-R-2017-002), USEPA Contract Laboratory Program National Functional Guidelines for Superfund Inorganic Methods Data Review, January 2017 (EPA 540-R-2017-001), the pertinent methods referenced by the laboratory report and professional and technical judgment.

The following samples were analyzed and validated at Stage 2A level in the data set:

Laboratory ID	Client ID
180-68096-1	W1, S5, A 71117
180-68096-2	W1, S5, B 71117
180-68096-3	W1, S5, C 71117
180-68096-4	W2, S1, A 71117
180-68096-4 MS	W2, S1, A 71117 MS
180-68096-4 MSD	W2, S1, A 71117 MSD
180-68096-5	W2, S1, B 71117
180-68096-6	W2, S1, C 71117
180-68096-6 MS	W2, S1, C 71117 MS
180-68096-6 MSD	W2, S1, C 71117 MSD
180-68096-7	W2, S2, A 71117
180-68096-8	W2, S2, B 71117
180-68096-9	W2, S2, C 71117
180-68096-10	W2, S3, A 71117
180-68096-11	W2, S3, B 71117
180-68096-12	W2, S3, C 71117
180-68096-13	W2, S4, A 71117
180-68096-14	W2, S4, B 71117
180-68096-15	W2, S4, C 71117
180-68096-16	W2, S5 A 71117
180-68096-17	W2, S5 B 71117

Laboratory ID	Client ID
180-68096-18	W2, S5 C 71117
180-68096-19	W3, S1 A 71117
180-68096-20	W3, S1 B 71117
180-68096-21	DUP-3
180-68096-22	DUP-4
180-68096-23	W3, S1, C 71117
180-68096-24	W3, S2, A 71117
180-68096-25	W3, S2, B 71117
180-68096-26	W3, S2, C 71117
180-68096-27	W3, S3, A 71117
180-68096-28	W3, S3, B 71117
180-68096-29	W3, S3, C 71117
180-68096-30	W3, S4, A 71117
180-68096-31	W3, S4, B 71117
180-68096-32	W3, S4, C 71117
180-68096-33	DUP-5
180-68096-34	W3, S5, A 71117
180-68096-35	W3, S5, B 71117
180-68096-36	W3, S5, C 71117
180-68096-37	TRIP BLANK 1
180-68096-38	TRIP BLANK 2

The samples were received at the laboratory at 1.2-3.1^{o}C, within the criteria of 0-6°C. No sample preservation issues were noted by the laboratory.

The following issues were noted with the chain of custody (COC):

- Incorrect error corrections were observed on the COC, instead of the proper procedure of a single strike through, correction, and initials and date of person making the corrections.

- No collection times were listed on the COC for the field duplicate samples; the laboratory assigned collection times of 00:00.

- Two trip blanks were listed on the COC for VOC analysis, both with IDs Trip Blank. The laboratory assigned them IDs of TRIP BLANK 1 and TRIP BLANK 2. In addition, there were no collection dates or times were listed on the COC for the trip blanks; the laboratory assigned collection dates and times of 7/11/17, 00:00.

The solids data, used to report the samples on a dry weight basis, were not validated.

1.0 VOLATILE ORGANIC COMPOUNDS

The samples were analyzed for VOCs by EPA methods 5035/8260B.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

⊗ Overall Assessment
✓ Holding Times
✓ Method Blank
✓ Matrix Spike/Matrix Spike Duplicate
✓ Laboratory Control Sample
✓ Surrogates
✓ Trip Blank
✓ Field Duplicate
✓ Sensitivity
✓ Electronic Data Deliverable Review

1.1 Overall Assessment

The VOC data reported in this package are considered usable for meeting project objectives. The analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this data set is 100%.

The narrative indicated that there was “significant” headspace in two of the three VOA vials for TRIP BLANK 1 and TRIP BLANK 2. Significant headspace is defined by the laboratory as a

bubble greater than 6 millimeters (mm) in diameter. Since VOCs were not detected in the associated solid samples, no qualifications were applied to the data based on trip blank results.

The narrative also indicated that the continuing calibration verification (CCV) percent differences (%Ds) for carbon tetrachloride were high, outside method specified acceptance criteria in analytical batches 217186 and 217056, both with low biases; the %Ds were 22%D and 25%D, respectively, and the method limits are 20%D. Since the %Ds were within the validation guidance, no qualifications were applied to the data. In addition, the CCV %Ds for 2-butanone and acetone were high, outside method specified acceptance criteria in analytical batch 217200, both with low biases; the %Ds were 33%D and 41%D, respectively, and the method limits are 20%D. Since the %D for 2-butanone was within the validation guidance, no qualifications were applied to the 2-butanone data. However, since the %D for acetone was outside both the method and validation guidance and based on professional and technical judgment, the nondetect result of acetone in the associated sample was UJ qualified as estimated less than the method detection limit (MDL) and the concentration in the associated sample was J qualified as estimated.

Sample	Compound	Laboratory Result (µg/L)	Laboratory Flag	Validation Result (µg/L)	Validation Qualifier*	Reason Code**
TRIP BLANK 1	Acetone	3.5	J	3.5	J	9
TRIP BLANK 2	Acetone	3.1	U	3.1	UJ	9

µg/L-micrograms per liter
J- laboratory flag indicating the result is less than the reporting limit (RL) but greater than or equal to the MDL and the concentration is an approximate value
NA-not applicable
* Validation qualifiers are defined in Attachment 1 at the end of this report
**Reason codes are defined in Attachment 2 at the end of this report

1.2 Holding Times

The holding time for the VOC analysis of a preserved solid sample collected as a terracore is 48 hours until laboratory receipt and 14 days from sample collection to analysis. The holding time for the VOC analysis of a preserved water sample is 14 days from sample collection to analysis. The holding times were met for the sample analyses.

1.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Four method blanks were reported (batches 217200, 216893, 217056 and 217186). VOCs were not detected in the method blanks above the MDLs.

1.4 Matrix Spike/Matrix Spike Duplicate

A sample set specific MS/MSD pair was reported, using sample W2, S1, A 711172. The recovery and relative percent difference (RPD) results were within the laboratory specified acceptance criteria.

1.5 Laboratory Control Sample (LCS)

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two LCSs and two LCS/LCS duplicate (LCSD) pairs were reported. The recovery and RPD results were within the laboratory specified acceptance criteria, with the following exception.

The LCS recovery of n-butylbenzene was high and outside the laboratory specified acceptance criteria in batch 217200. Since n-butylbenzene was not detected in the associated samples, no qualifications were applied to the data.

1.6 Surrogates

Acceptable surrogate recoveries were reported.

1.7 Trip Blank

Two trip blanks accompanied the samples, TRIP BLANK 1 and TRIP BLANK 2. VOCs were not detected in the trip blanks above the MDLs, with the following exceptions.

Acetone was detected at an estimated concentration greater than the MDL and less than the RL in TRIP BLANK 1. Since acetone was not detected in the associated samples, no qualifications were applied to the data.

1.8 Field Duplicate

Three field duplicates were collected with the sample set. Two field duplicates were analyzed for VOCs, DUP-3 and DUP-5. Acceptable precision (RPD <40% for results greater than five times the RL and ±2 times the RL for results less than five times the RL) was demonstrated between the field duplicates and the original samples, W2, S4, B71117 and W3, S2, A71117, respectively. The RPDs between the results were 0%.

1.9 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were not reported.

1.10 Electronic Data Deliverable (EDD) Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

2.0 SEMIVOLATILE ORGANIC COMPOUNDS

The samples were analyzed for SVOCs by EPA methods 3541/8270D.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

⊗ Overall Assessment
✓ Holding Times
✓ Method Blank
⊗ Matrix Spike/Matrix Spike Duplicate
✓ Laboratory Control Sample
✓ Surrogates
✓ Field Duplicate
✓ Sensitivity
✓ Electronic Data Deliverable Review

2.1 Overall Assessment

The SVOC data reported in this package are considered usable for meeting project objectives, with the following exception. Since there were no recoveries (0%) of pentachlorophenol in the MS/MSD pair, the nondetect result of pentachlorophenol in sample W2, S1, C 71117 was R qualified as rejected. Therefore, the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this data set is 99.6%.

The narrative indicated that the CCV %Ds for pentachlorophenol were high, outside method specified acceptance criteria in analytical batches 216940 and 217242, both with high biases; the %Ds were 54%D and 51%D, respectively, and the method limits are 20%D. Since the biases were high and pentachlorophenol was not detected in the associated samples, no qualifications were applied to the data. In addition, the CCV %D for benzo[g,h,i]perylene was high, outside method specified acceptance criteria in analytical batch 217242, with a low bias; the %D was 21%D and

the method limit is 20%D. Since the %D for benzo[g,h,i]perylene was within the validation guidance, no qualifications were applied to the benzo[g,h,i]perylene data.

2.2 Holding Times

The holding times for SVOC analysis of solid samples are 14 days from sample collection to extraction and 40 days from extraction to analysis. The holding times were met for the sample analyses.

2.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 216880). SVOCs were not detected in the method blank above the MDLs.

2.4 Matrix Spike/Matrix Spike Duplicate

MS/MSD pairs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). A sample set specific MS/MSD pair was reported, using sample W2, S1, C 71117. The recovery and RPD results were within the laboratory specified acceptance criteria, with the following exceptions.

The recoveries and/or RPDs of the following compounds were high and outside the laboratory specified acceptance criteria. Since fluorene and 1,4-dioxane were not detected in sample W2, S1, C 71117, no qualifications were applied to the fluorene and 1,4-dioxane data. However, the concentrations of the other compounds listed below in sample W2, S1, C 71117 were J qualified as estimated

1,4-Dioxane	Benzo[a]pyrene	Fluorene
Acenaphthylene	Benzo[g,h,i]perylene	Indeno[1,2,3-cd]pyrene
Anthracene	Benzo[k]fluoranthene	Phenanthrene
Benzo[a]anthracene	Chrysene	Pyrene

The MSD recovery of benzo[b]fluoranthene was low and the RPD was high, outside the laboratory specified acceptance criteria. The MS recovery and RPD of fluoranthene were high and the MSD recovery was low, outside the laboratory specified acceptance criteria. Therefore, the concentrations of benzo[b]fluoranthene and fluoranthene in sample W2, S1, C 71117 were J qualified as estimated. There were no recoveries (0%) of pentachlorophenol in the MS/MSD pair.

Therefore, the nondetect result of pentachlorophenol in sample W2, S1, C 71117 was R qualified as rejected.

The qualifications due to the MS/MSD results are summarized below.

Sample	Compound	Laboratory Result (mg/kg)	Laboratory Flag	Validation Result (mg/kg)	Validation Qualifier	Reason Code
W2, S1, C 71117	Acenaphthylene	0.12	J,F2	0.12	J	4
W2, S1, C 71117	Anthracene	0.15	F2	0.15	J	4
W2, S1, C 71117	Benzo[a]anthracene	0.59	F2,F1	0.59	J	4
W2, S1, C 71117	Benzo[a]pyrene	0.61	F2,F1	0.61	J	4
W2, S1, C 71117	Benzo[b]fluoranthene	0.78	F2,F1	0.78	J	4
W2, S1, C 71117	Benzo[g,h,i]perylene	0.55	F2,F1	0.55	J	4
W2, S1, C 71117	Benzo[k]fluoranthene	0.21	F2,F1	0.21	J	4
W2, S1, C 71117	Chrysene	0.62	F2	0.62	J	4
W2, S1, C 71117	Fluoranthene	0.93	F2,F1	0.93	J	4
W2, S1, C 71117	Indeno[1,2,3-cd]pyrene	0.50	F2,F1	0.50	J	4
W2, S1, C 71117	Pentachlorophenol	1.4	U,F1	1.4	R	4
W2, S1, C 71117	Phenanthrene	0.43	F2,F1	0.43	J	4
W2, S1, C 71117	Pyrene	0.92	F2,F1	0.92	J	4

mg/kg-milligrams per kilogram
J- laboratory flag indicating the Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value
F1-laboratory flag indicating the MS and/or MSD recovery is outside acceptance limits
F2- laboratory flag indicating the MS/MSD RPD exceeds control limits
U-not detected at the stated MDL

2.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery results were within the laboratory specified acceptance criteria.

2.6 Surrogates

Acceptable surrogate recoveries were reported.

2.7 Field Duplicate

Three field duplicates were collected with the sample set. One field duplicate was analyzed for SVOCs, DUP-4. Acceptable precision (RPD <40% for results greater than five times the RL and ±2 times the RL for results less than five times the RL) was demonstrated between the field duplicate and the original sample, W2, S4, C71117.

2.8 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were reported due to the dilutions analyzed.

2.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II reports and the EDDs.

3.0 POLYCHLORINATED BIPHENYLS

The samples were analyzed for PCBs by EPA Methods 3541/8082A.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

⊗ Overall Assessment
✓ Holding Times
✓ Method Blank
✓ Matrix Spike/Matrix Spike Duplicate

- ✓ Laboratory Control Sample
- ✓ Surrogates
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

3.1 Overall Assessment

The PCB data reported in this package are considered usable for meeting project objectives. The analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this data set is 100%.

The samples contain mixtures of PCBs 1248, 1254 and 1260. There are peaks in 1248 and 1254 that are in both of these PCBs and peaks in 1254 and 1260 that are in both of these PCBs; therefore, there is contribution between PCBs when more than one PCB is detected in a sample. Therefore, based on professional and technical judgment, the concentrations of PCBs PCBs 1248, 1254 and 1260 in these samples were J qualified as estimated.

Sample ID	Compound	Laboratory Concentration (mg/kg)	Laboratory Flag	Validation Concentration (mg/kg)	Validation Qualifier	Reason Code
DUP-4	PCB-1248	0.56	NA	0.56	J	13
DUP-4	PCB-1254	0.38	NA	0.38	J	13
DUP-4	PCB-1260	0.14	NA	0.14	J	13
W1, S5, C 71117	PCB-1248	0.63	NA	0.63	J	13
W1, S5, C 71117	PCB-1254	0.45	NA	0.45	J	13
W1, S5, C 71117	PCB-1260	0.15	NA	0.15	J	13
W2, S1, C 71117	PCB-1248	0.84	NA	0.84	J	13
W2, S1, C 71117	PCB-1254	0.64	NA	0.64	J	13
W2, S1, C 71117	PCB-1260	0.19	NA	0.19	J	13
W2, S2, C 71117	PCB-1248	0.74	NA	0.74	J	13
W2, S2, C 71117	PCB-1254	0.52	NA	0.52	J	13
W2, S2, C 71117	PCB-1260	0.20	NA	0.20	J	13
W2, S3, C 71117	PCB-1248	0.69	NA	0.69	J	13
W2, S3, C 71117	PCB-1254	0.56	NA	0.56	J	13
W2, S3, C 71117	PCB-1260	0.16	NA	0.16	J	13
W2, S4, C 71117	PCB-1248	0.70	NA	0.70	J	13
W2, S4, C 71117	PCB-1254	0.48	NA	0.48	J	13

Sample ID	Compound	Laboratory Concentration (mg/kg)	Laboratory Flag	Validation Concentration (mg/kg)	Validation Qualifier	Reason Code
W2, S4, C 71117	PCB-1260	0.16	NA	0.16	J	13
W2, S5 C 71117	PCB-1248	0.70	NA	0.70	J	13
W2, S5 C 71117	PCB-1254	0.48	NA	0.48	J	13
W2, S5 C 71117	PCB-1260	0.17	NA	0.17	J	13
W3, S1, C 71117	PCB-1248	0.67	NA	0.67	J	13
W3, S1, C 71117	PCB-1254	0.47	NA	0.47	J	13
W3, S1, C 71117	PCB-1260	0.17	NA	0.17	J	13
W3, S2, C 71117	PCB-1248	0.65	NA	0.65	J	13
W3, S2, C 71117	PCB-1254	0.44	NA	0.44	J	13
W3, S2, C 71117	PCB-1260	0.15	NA	0.15	J	13
W3, S3, C 71117	PCB-1248	0.88	NA	0.88	J	13
W3, S3, C 71117	PCB-1254	0.59	NA	0.59	J	13
W3, S3, C 71117	PCB-1260	0.17	NA	0.17	J	13
W3, S4, C 71117	PCB-1248	0.93	NA	0.93	J	13
W3, S4, C 71117	PCB-1254	0.61	NA	0.61	J	13
W3, S4, C 71117	PCB-1260	0.19	NA	0.19	J	13
W3, S5, C 71117	PCB-1248	0.93	NA	0.93	J	13
W3, S5, C 71117	PCB-1254	0.61	NA	0.61	J	13
W3, S5, C 71117	PCB-1260	0.18	NA	0.18	J	13

mg/kg-milligrams per kilogram
NA-not applicable

3.2 Holding Times

The holding times for the PCB analysis of solids are 14 days from sample collection to extraction and 40 days from extraction to analysis. The holding times were met for the sample analyses.

3.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 216879). PCBs were not detected in the method blank above the MDLs.

3.4 Matrix Spike/Matrix Spike Duplicate

MS/MSD pairs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). A sample set specific MS/MSD pair was reported, using

sample W2, S1, C 71117. The recovery and RPD results were within the laboratory specified acceptance criteria.

3.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery results were within the laboratory specified acceptance criteria.

3.6 Surrogates

Acceptable surrogate recoveries were reported.

3.7 Field Duplicate

Three field duplicates were collected with the sample set. One field duplicate was analyzed for PCBs, DUP-4. Acceptable precision (RPD <40% for results greater than five times the RL and ±2 times the RL for results less than five times the RL) was demonstrated between the field duplicate and the original sample, W2, S4, C71117.

3.8 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were not reported.

3.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No other discrepancies were identified between the level II report and the EDD.

5.0 METALS

The samples were analyzed for metals by EPA methods 3050B/6010C (Mercury evaluated separately in Section 6.0, below).

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ⊗ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ⊗ Serial Dilution
- ⊗ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

5.1 Overall Assessment

The metals data reported in this package are considered usable for meeting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this data set is 100%.

5.2 Holding Times

The holding time for metals analysis of solid samples is 180 days from sample collection to analysis. The holding times were met for the sample analyses.

5.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 216920). The metals were not detected in the method blank above the MDLs.

5.4 Matrix Spike/Matrix Spike Duplicate

MS/MSD pairs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). A sample set specific MS/MSD pair was reported, using sample W2, S1, C 71117. The recovery and RPD results were within the laboratory specified acceptance criteria, with the following exceptions.

One or both of the recoveries of copper and zinc were low and outside the laboratory specified acceptance criteria. Therefore, the concentrations of copper and zinc in sample W2, S1, C 71117 were J- qualified as estimated with low biases. In addition, the RPD for manganese was high and outside the laboratory specified acceptance criteria. Since the concentration of manganese in

sample W2, S1, C 71117 was greater than four times the spike concentration, no qualifications were applied to the manganese data.

The qualifications due to the MS/MSD results are summarized below.

Sample	Compound	Laboratory Result (mg/kg)	Laboratory Flag	Validation Result (mg/kg)	Validation Qualifier	Reason Code
W2, S1, C 71117	Copper	26	F1	26	J-	4
W2, S1, C 71117	Zinc	76	F1	76	J-	4

mg/kg-milligrams per kilogram
F1-laboratory flag indicating the MS and/or MSD recovery is outside acceptance limits

5.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery results were within the laboratory specified acceptance criteria.

5.6 Laboratory Duplicate

A laboratory duplicate was not reported with the sample set.

5.7 Serial Dilution

The narrative indicated that the serial dilution results for manganese and zinc using sample W2, S1, C 71117 were high and outside the method specified acceptance criteria. The %Ds were 13%D and 12%D, respectively, limits 10%D; the serial dilution results were in the level IV report. Therefore, the concentrations of manganese and zinc in sample W2, S1, C 71117 were J qualified as estimated.

Sample	Compound	Laboratory Result (mg/kg)	Laboratory Flag	Validation Result (mg/kg)	Validation Qualifier	Reason Code
W2, S1, C 71117	Manganese	800	F2	800	J	8
W2, S1, C 71117	Zinc	76	F1	76	J	8

mg/kg-milligrams per kilogram
F2- laboratory flag indicating the MS/MSD RPD exceeds control limits
F1-laboratory flag indicating the MS and/or MSD recovery is outside acceptance limits

5.8 Field Duplicate

Three field duplicates were collected with the sample set. One field duplicate was analyzed for metals, DUP-4. Acceptable precision (RPD <40% for results greater than five times the RL and ±2 times the RL for results less than five times the RL) was demonstrated between the field duplicates and the original sample, W2, S4, C71117, with the following exceptions.

The field duplicate acceptance criteria were not met for arsenic and nickel. Therefore, based on professional and technical judgment, the concentrations of arsenic and nickel in the field duplicate pair were J qualified as estimated.

The qualifications due to the field duplicate results are summarized below.

Sample	Compound	Laboratory Result (mg/kg)	Laboratory Flag	RPD	Validation Result (mg/kg)	Validation Qualifier	Reason Code
DUP-4	Arsenic	8.4	NA	42	8.4	J	7
W2, S4, C 71117	Arsenic	5.5	NA		5.5	J	7
DUP-4	Nickel	21	NA	40	21	J	7
W2, S4, C 71117	Nickel	14	NA		14	J	7

mg/kg-milligrams per kilogram
NA-not applicable

5.9 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were not reported.

5.10 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

6.0 MERCURY

The samples were analyzed for mercury by EPA methods 7471B.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues

were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ⊗ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

6.1 Overall Assessment

The mercury data reported in this package are considered usable for meeting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this data set is 100%.

6.2 Holding Times

The holding time for the mercury analysis of solid samples is 28 days from sample collection to analysis. The holding times were met for the sample analyses.

6.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 217097). Mercury was not detected in the method blank above the MDL.

6.4 Matrix Spike/Matrix Spike Duplicate

MS/MSD pairs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). A sample set specific MS/MSD pair was reported, using sample W2, S1, C 71117. The recovery results were high and outside the laboratory specified acceptance criteria. Therefore, the concentration of mercury in sample W2, S1, C 71117 was J+ qualified as estimated with a high bias.

Sample	Compound	Laboratory Result (mg/kg)	Laboratory Flag	Validation Result (mg/kg)	Validation Qualifier	Reason Code
W2, S1, C 71117	Mercury	0.41	F1	0.41	J+	4

mg/kg-milligrams per kilogram
F1-laboratory flag indicating the MS and/or MSD recovery is outside acceptance limits

6.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery result was within the laboratory specified acceptance criteria.

6.6 Laboratory Duplicate

A laboratory duplicate was not reported.

6.7 Field Duplicate

Three field duplicates were collected with the sample set. One field duplicate was analyzed for mercury, DUP-4. Acceptable precision (RPD <40% for results greater than five times the RL and ±2 times the RL for results less than five times the RL) was demonstrated between the field duplicates and the original sample, W2, S4, C71117.

6.8 Sensitivity

The samples were reported to the MDL. Elevated non-detect results were not reported.

6.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

7.0 TOTAL CYANIDE

The samples were analyzed for total cyanide by EPA Methods 9014.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues

were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Equipment Blank
- ✓ Sensitivity
- ✓ Electronic Data Deliverables Review

7.1 Overall Assessment

The cyanide data reported in this package are considered usable for meeting project objectives. The analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this data set is 100%.

7.2 Holding Times

The holding time for the cyanide analysis of solid samples is 14 days from sample collection to analysis. The holding times were met for the sample analyses.

7.3 Method Blanks

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 216972). Cyanide was not detected in the method blank above the MDL.

7.4 Matrix Spike

MS/MSD pairs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). A sample set specific MS/MSD pair was reported, using sample W2, S1, C 71117. The recovery and RPD results were within the laboratory specified acceptance criteria.

7.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Three LCSs were reported. The recovery results were within the laboratory specified acceptance criteria.

7.6 Laboratory Duplicate

A laboratory duplicate was not reported.

7.7 Field Duplicate

Three field duplicates were collected with the sample set. One field duplicate was analyzed for cyanide, DUP-4. Acceptable precision (RPD <40% for results greater than five times the RL and ±2 times the RL for results less than five times the RL) was demonstrated between the field duplicates and the original sample, Windrow 1,Sec 3, C.

7.8 Sensitivity

The samples were reported to the MDL. Elevated non-detect results were not reported.

7.9 Electronic Data Deliverables Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

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ATTACHMENT 1
DATA VALIDATION QUALIFIER DEFINITIONS AND INTERPRETATION KEY
Assigned by Geosyntec's Data Validation Team

DATA QUALIFIER DEFINITIONS

U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

J+ The analyte was positively identified; however, the associated numerical value is likely to be higher that the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.

J- The analyte was positively identified; however, the associated numerical value is likely to be lower that the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ATTACHMENT 2
DATA VALIDATION REASON CODES
Assigned by Geosyntec's Data Validation Team

Valid Value	Description
1	Preservation requirement not met
2	Analysis holding time exceeded
3	Blank contamination (i.e., method, trip, equipment, etc.)
4	Matrix spike/matrix spike duplicate recovery or RPD outside limits
5	LCS recovery outside limits
6	Surrogate recovery outside limits
7	Field Duplicate RPD exceeded
8	Serial dilution percent difference exceeded
9	Calibration criteria not met
10	Linear range exceeded
11	Internal standard criteria not met
12	Lab duplicates RPD exceeded
13	Other

RPD-relative percent difference

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Request to Import/Reuse Fill or Soil

This form is based on the information required by DER-10, Section 5.4(e). Use of this form is not a substitute for reading the applicable Technical Guidance document.

SECTION 1 – SITE BACKGROUND

The allowable site use is: Restricted Residential Use

Have Ecological Resources been identified? yes

Is this soil originating from the site? no

How many cubic yards of soil will be imported/reused? 800-1000

If greater than 1000 cubic yards will be imported, enter volume to be imported:

SECTION 2 – MATERIAL OTHER THAN SOIL

Is the material to be imported gravel, rock or stone? no

Does it contain less than 10%, by weight, material that would pass a size 80 sieve? yes

Is this virgin material from a permitted mine or quarry? yes

Is this material recycled concrete or brick from a DEC registered processing facility? no

SECTION 3 - SAMPLING

Provide a brief description of the number and type of samples collected in the space below:

Seven (7) Discrete Samples were collected and analyzed for VOCs. Two (2) Composite Samples were collected and analyzed for SVOCs, Inorganics, and PCBs/Pesticides. The chain of custody incorrectly shows the same Sample ID for the composite samples and the first two discrete VOC samples. The Analytical Results have been attached to this form.

Two (2) composite samples were collected and analyzed for grain size distribution and moisture-density.

Example Text: 5 discrete samples were collected and analyzed for VOCs. 2 composite samples were collected and analyzed for SVOCs, Inorganics & PCBs/Pesticides.

If the material meets requirements of DER-10 section 5.5 (other material), no chemical testing needed.

SECTION 3 CONT'D - SAMPLING

Provide a brief written summary of the sampling results or attach evaluation tables (compare to DER-10, Appendix 5):

Analytical results are compared to Restricted Residential SCO.

VOC analyses: acetone, benzene, toluene, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene and total xylenes were detected in 7 of 7 samples at levels below Restricted Residential SCOs.

There were no detections of SVOCs, PCBs, or pesticides in the two composite samples.

Metals analyses: arsenic, barium, beryllium, copper, lead manganese, nickel, zinc, and mercury were detected at levels below Restricted Residential SCOs.

Example Text: Arsenic was detected up to 17 ppm in 1 (of 5) samples; the allowable level is 16 ppm.

If Ecological Resources have been identified use the "If Ecological Resources are Present" column in Appendix 5.

SECTION 4 – SOURCE OF FILL

Name of person providing fill and relationship to the source:

Edger Enterprises

Location where fill was obtained:

Brewer's Pit located in Horseheads NY

Identification of any state or local approvals as a fill source:

NYSDEC Facility ID 8-0734-00150

If no approvals are available, provide a brief history of the use of the property that is the fill source:

Provide a list of supporting documentation included with this request:

Geotechnical Data and the Chemical Analysis Reports

The information provided on this form is accurate and complete.

	6-23-17
Signature	Date
Kyle Snyder	
Print Name	
RECON	
Firm	

TABLE 1
Request to Import/Reuse Fill or Soil - Windrows 4 to 5
Former Sperry Remington Site - North Portion
Elmira, New York

				Field_ID	W4_S1, A 71317	W4_S1, B 71317	W4_S1, C 71217	W4_S2, A 71317	W4_S2, B 71317	W4_S2, C 71217	W4_S3, A 71317	W4_S3, B 71317	W4_S3, C 71217	W4_S4, A 71317	W4_S4, B 71317	W4_S4, C 71217	W4_S5, A 71317	W4_S5, B 71317	W4_S5, C 71217	W5_S1, A 71217	W5_S1, B 71217	W5_S1, C 71217
				Sample Date	7/13/2017	7/13/2017	7/12/2017	7/13/2017	7/13/2017	7/12/2017	7/13/2017	7/13/2017	7/12/2017	7/13/2017	7/13/2017	7/12/2017	7/13/2017	7/13/2017	7/12/2017	7/12/2017	7/12/2017	7/12/2017
Group	Analyte	Units	EQL	NYSDEC DER10 App 5 Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010																		
PCBs	Arochlor 1016	mg/kg	0.0093		-	-	<0.0093U	-	-	<0.0097U	-	-	<0.0094U	-	-	<0.0098U	-	-	<0.0096U	-	-	<0.0094U
	Arochlor 1221	mg/kg	0.0091		-	-	<0.0091U	-	-	<0.0095U	-	-	<0.0092U	-	-	<0.0096U	-	-	<0.0093U	-	-	<0.0092U
	Arochlor 1232	mg/kg	0.0069		-	-	<0.0069U	-	-	<0.0073U	-	-	<0.007U	-	-	<0.0073U	-	-	<0.0071U	-	-	<0.007U
	Arochlor 1242	mg/kg	0.014		-	-	<0.014U	-	-	<0.015U	-	-	<0.014U	-	-	<0.015U	-	-	<0.014U	-	-	<0.014U
	Arochlor 1248	mg/kg	0.018		-	-	0.55J	-	-	0.6J	-	-	0.71J	-	-	0.72J	-	-	0.61J	-	-	0.56J
	Arochlor 1254	mg/kg	0.018		-	-	0.39J	-	-	0.43J	-	-	0.5J	-	-	0.51J	-	-	0.41J	-	-	0.36J
	Arochlor 1260	mg/kg	0.018		-	-	0.12J	-	-	0.12J	-	-	0.15J	-	-	0.15J	-	-	0.12J	-	-	0.11J
	Arochlor 1268	mg/kg	0.0053		-	-	<0.0053U	-	-	<0.0056U	-	-	<0.0054U	-	-	<0.0056U	-	-	<0.0055U	-	-	<0.0054U
	Arochlor 1262	mg/kg	0.013		-	-	<0.013U	-	-	<0.013U	-	-	<0.013U	-	-	<0.013U	-	-	<0.013U	-	-	<0.013U
	Total PCBs	mg/kg		1	-	-	1.06	-	-	1.15	-	-	1.36	-	-	1.38	-	-	1.14	-	-	1.03
SVOCs	1,4-Dioxane	mg/kg	0.011	13	-	-	<0.022U	-	-	<0.022U	-	-	<0.054U	-	-	<0.054U	-	-	<0.022U	-	-	<0.021U
	2-methylphenol	mg/kg	0.0064	100	-	-	<0.013U	-	-	<0.013U	-	-	<0.031U	-	-	<0.032U	-	-	<0.013U	-	-	<0.013U
	4-methylphenol	mg/kg	0.0096	100	-	-	<0.013U	-	-	<0.013U	-	-	<0.031U	-	-	<0.032U	-	-	<0.013U	-	-	<0.013U
	Acenaphthene	mg/kg	0.0073	100	-	-	0.012J	-	-	<0.0099U	-	-	<0.024U	-	-	<0.024U	-	-	0.02J	-	-	0.011J
	Acenaphthylene	mg/kg	0.015	100	-	-	0.2	-	-	0.084J	-	-	0.28	-	-	0.45	-	-	0.48	-	-	0.21
	Anthracene	mg/kg	0.015	100	-	-	0.27	-	-	0.089	-	-	0.28	-	-	0.51	-	-	0.42	-	-	0.31
	Benz(a)anthracene	mg/kg	0.015	1	-	-	0.77	-	-	0.28J	-	-	0.73	-	-	1.1	-	-	1.2	-	-	0.86
	Benzo(a) pyrene	mg/kg	0.015	1	-	-	0.75	-	-	0.31J	-	-	0.75	-	-	1.1	-	-	1.2	-	-	0.96
	Benzo(b)fluoranthene	mg/kg	0.015	1	-	-	0.87	-	-	0.4J	-	-	0.9	-	-	1.2	-	-	1.4	-	-	1.1
	Benzo(g,h,i)perylene	mg/kg	0.015	100	-	-	0.83	-	-	0.41J	-	-	0.82	-	-	1.2	-	-	1.4	-	-	0.98
	Benzo(k)fluoranthene	mg/kg	0.015	3.9	-	-	0.34	-	-	0.11	-	-	0.32	-	-	0.52	-	-	0.56	-	-	0.4
	Chrysene	mg/kg	0.015	3.9	-	-	0.7	-	-	0.27J	-	-	0.67	-	-	1.1	-	-	1.1	-	-	0.81
	Dibenz(a,h)anthracene	mg/kg	0.015	0.33	-	-	0.21	-	-	0.086	-	-	0.17	-	-	0.22	-	-	0.3	-	-	0.23
	Dibenzofuran	mg/kg	0.072	59	-	-	0.031J	-	-	0.019J	-	-	0.052J	-	-	0.074J	-	-	0.066J	-	-	0.044J
	Fluoranthene	mg/kg	0.015	100	-	-	1.3	-	-	0.43J	-	-	1.5	-	-	2.4	-	-	2.7	-	-	1.5
	Fluorene	mg/kg	0.015	100	-	-	0.027J	-	-	0.012J	-	-	0.035J	-	-	0.076	-	-	0.06	-	-	0.036
	Hexachlorobenzene	mg/kg	0.0058	1.2	-	-	<0.012U	-	-	<0.012U	-	-	<0.029U	-	-	<0.029U	-	-	<0.012U	-	-	<0.011U
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.015	0.5	-	-	0.72	-	-	0.33J	-	-	0.68	-	-	1	-	-	1.1	-	-	0.86
	Naphthalene	mg/kg	0.015	100	-	-	0.13	-	-	0.082	-	-	0.14	-	-	0.19	-	-	0.22	-	-	0.2
	Pentachlorophenol	mg/kg	0.14	6.7	-	-	<0.27U	-	-	<0.28U	-	-	<0.67U	-	-	<0.68U	-	-	<0.28U	-	-	<0.27U
	Phenanthrene	mg/kg	0.015	100	-	-	0.61	-	-	0.17J	-	-	0.63	-	-	1.1	-	-	0.95	-	-	0.52
	Phenol	mg/kg	0.0098	100	-	-	<0.019U	-	-	<0.02U	-	-	<0.048U	-	-	<0.048U	-	-	<0.02U	-	-	<0.019U
	Pyrene	mg/kg	0.015	100	-	-	1	-	-	0.37J	-	-	0.99	-	-	1.5	-	-	1.8	-	-	1.1
VOCs	1,1,1-trichloroethane	mg/kg	0.002	100	<0.0025U	<0.002U	-	<0.0021U	<0.0023U	-	<0.0023U	<0.0025U	-	<0.0022U	<0.0024U	-	<0.0022U	<0.0024U	-	<0.0023U	<0.0024U	-
	1,1-dichloroethane	mg/kg	0.0015	26	<0.0018U	<0.0015U	-	<0.0015U	<0.0017U	-	<0.0017U	<0.0018U	-	<0.0016U	<0.0017U	-	<0.0016U	<0.0017U	-	<0.0017U	<0.0017U	-
	1,1-dichloroethene	mg/kg	0.0023	100	<0.0028U	<0.0023U	-	<0.0023U	<0.0026U	-	<0.0026U	<0.0028U	-	<0.0025U	<0.0027U	-	<0.0025U	<0.0027U	-	<0.0026U	<0.0027U	-
	1,2,4-trimethylbenzene	mg/kg	0.0011	52	<0.0013U	<0.0011U	-	<0.0011U	<0.0012U	-	<0.0012U	<0.0013U	-	<0.0012U	<0.0013U	-	<0.0012U	<0.0013U	-	<0.0012UJ	<0.0013U	-
	1,2-dichlorobenzene	mg/kg	0.0032	100	<0.004U	<0.0032U	-	<0.0033U	<0.0037U	-	<0.0037U	<0.004U	-	<0.0036U	<0.0038U	-	<0.0036U	<0.0038U	-	<0.0037UJ	<0.0038U	-
	1,2-dichloroethane	mg/kg	0.0012	3.1	<0.0014U	<0.0012U	-	<0.0012U	<0.0013U	-	<0.0013U	<0.0014U	-	<0.0013U	<0.0014U	-	<0.0013U	<0.0014U	-	<0.0013U	<0.0014U	-
	1,3,5-trimethylbenzene	mg/kg	0.0014	52	<0.0017U	<0.0014U	-	<0.0014U	<0.0016U	-	<0.0016U	<0.0017U	-	<0.0015U	<0.0016U	-	<0.0015U	<0.0016U	-	<0.0016UJ	<0.0016U	-
	1,3-dichlorobenzene	mg/kg	0.0013	49	<0.0016U	<0.0013U	-	<0.0013U	<0.0015U	-	<0.0015U	<0.0016U	-	<0.0014U	<0.0015U	-	<0.0014U	<0.0015U	-	<0.0015UJ	<0.0015U	-
	1,4-dichlorobenzene	mg/kg	0.00082	13	<0.001U	<0.00082U	-	<0.00083U	<0.00093U	-	<0.00094U	<0.001U	-	<0.0009U	<0.00096U	-	<0.00091U	<0.00096U	-	<0.00093UJ	<0.00097U	-
	Methyl Ethyl Ketone	mg/kg	0.0023	100	<0.0029U	<0.0023U	-	<0.0024U	<0.0026U	-	<0.0027U	<0.0029U	-	<0.0026U	<0.0027U	-	<0.0026U	<0.0027U	-	<0.0027U	<0.0028U	-
	Acetone	mg/kg	0.0025	100	<0.0031U	<0.0025U	-	<0.0026U	<0.0029U	-	<0.0029U	<0.0031U	-	<0.0028U	<0.003U	-	<0.0028U	<0.003U	-	<0.0029U	<0.003U	-
	Benzene	mg/kg	0.0016	4.8	<0.0019U	<0.0016U	-	<0.0016U	<0.0018U	-	<0.0018U	<0.0019U	-	<0.0017U	<0.0018U	-	<0.0018U	<0.0018U	-	<0.0018U	<0.0019U	-
	Carbon tetrachloride	mg/kg	0.0027	2.4	<0.0033U	<0.0027U	-	<0.0027U	<0.003U	-	<0.0031U	<0.0033U	-	<0.0029U	<0.0031U	-	<0.003U	<0.0031U	-	<0.003U	<0.0032U	-
	Chlorobenzene	mg/kg	0.0013	100	<0.0016U	<0.0013U	-	<0.0013U	<0.0014U	-	<0.0015U	<0.0016U	-	<0.0014U	<0.0015U	-	<0.0014U	<0.0015U	-	<0.0014U	<0.0015U	-
	Chloroform	mg/kg	0.0017	49	<0.0021U	<0.0017U	-	<0.0017U	<0.0019U	-	<0.002U	<0.0021U	-	<0.0019U	<0.002U	-	<0.0019U	<0.002U	-	<0.0019U	<0.002U	-
	cis-1,2-dichloroethene	mg/kg	0.0013	100	<0.0016U	<0.0013U	-	<0.0013U	<0.0014U	-	<0.0015U	<0.0016U	-	<0.0014U	<0.0015U	-	<0.0014U	<0.0015U	-	<0.0014U	<0.0015U	-
	Dichloromethane	mg/kg	0.0019	100	<0.0023U	<0.0019U	-	<0.0019U	<0.0022U	-	<0.0022U	<0.0023U	-	<0.0021U	<0.0022U	-	<0.0021U	<0.0022U	-	<0.0022U	<0.0022U	-
	Ethylbenzene	mg/kg	0.0017	41	<0.0021U	<0.0017U	-	<0.0018U	<0.002U	-	<0.002U	<0.0021U	-	<0.0019U	<0.002U	-	<0.0019U	<0.002U	-	<0.002U	<0.0021U	-
	Methyl-tert-butyl ether	mg/kg	0.003	100	<0.0036U	<0.003U	-	<0.003U	<0.0034U	-	<0.0034U	<0.0036U	-	<0.0033U	<0.0035U	-	<0.0033U	<0.0035U	-	<0.0034U	<0.0035U	-
	n-butylbenzene	mg/kg	0.003	100	<0.0037U	<0.003U	-	<0.0031U	<0.0035U	-	<0.0035U	<0.0037U	-	<0.0033U	<0.0036U	-	<0.0034U	<0.0036U	-	<0.0035UJ	<0.0036U	-
	n-propylbenzene	mg/kg	0.0017	100	<0.0021U	<0.0017U	-	<0.0017U	<0.0019U	-	<0.002U	<0.0021U	-	<0.0019U	<0.002U	-	<0.0019U	<0.002U	-	<0.0019UJ	<0.002U	-
	sec-butylbenzene	mg/kg	0.002	100	<0.0024U	<0.002U	-	<0.002U	<0.0022U	-	<0.0023U	<0.0024U	-	<0.0022U	<0.0023U	-	<0.0022U	<0.0023U	-	<0.0022UJ	<0.0023U	-
	Trichloroethene	mg/kg	0.0012	21	<0.0015U	<0.0012U	-	<0.0012U	<0.0014U	-	<0.0014U	<0.0015U	-	<0.0013U	<0.0014U	-	<0.0013U	<0.0014U	-	<0.0014U	<0.0014U	-
	tert-butylbenzene	mg/kg	0.0015	100	<0.0018U	<0.0015U	-	<0.0015U	<0.0017U	-	<0.0017U	<0.0018U	-	<0.0016U	<0.0017U	-	<0.0016U	<0.0017U	-	<0.0017UJ	<0.0017U	-
	Tetrachloroethene	mg/kg	0.0016	19	<0.002U	<0.0016U	-	<0.0016U	<0.0018U	-	<0.0019U	<0.002U	-	<0.0018U	<0.0019U	-	<0.0018U	<0.0019U	-	<0.0018U	<0.0019U	-
	Toluene	mg/kg	0.0014	100	<0.0017U	<0.0014U	-	<0.0014U	<0.0015U	-	<0.0016U	<0.0017U	-	<0.0015U	<0.0016U	-	<0.0015U	<0.0016U	-	<0.0015U	<0.0016U	-
	trans-1,2-dichloroethene	mg/kg	0.002	100	<0.0025U	<0.002U	-	<0.0021U	<0.0023U	-	<0.0023U	<0.0025U	-	<0.0022U	<0.0024U	-	<0.0023U	<0.0024U	-	<0.0023U	<0.0024U	-
	Vinyl chloride	mg/kg	0.0029	0.9	<0.0036U	<0.0029U	-	<0.003U	<0.0034U	-	<0.0034U	<0.0036U	-	<0.0032U	<0.0034U	-	<0.0033U	<0.0035U	-	<0.0034U	<0.0035U	-
	Xylene Total	mg/kg	0.0035	100	<0.0043U	<0.0035U	-	<0.0035U	<0.0039U	-	<0.004U	<0.0042U	-	<0.0038U	<0.004U	-	<0.0038U	<0.0041U	-	<0.0039U	<0.0041U	-
Inorganics	Cyanide Total	mg/kg	0.14	27	-	-	<0.15U	-	-	<0.14U	-	-	<0.14U	-	-	<0.15U	-	-	<0.15U	-	-	<0.15U
Metals	Arsenic	mg/kg	1.1	16	-	-	12	-	-	6.6	-	-	7.7	-	-	8	-	-	7	-	-	6.7
	Barium	mg/kg	21	400	-	-	77	-	-	86	-	-	84	-	-	90	-	-	73	-	-	62
	Beryllium	mg/kg	0.43	72	-	-	0.34J	-	-	0.34J	-	-	0.35J	-	-	0.4J	-	-	0.36J	-	-	0.32J
	Cadmium	mg/kg	0.54	4.3	-	-	0.19J	-	-	0.18J	-	-	0.16J	-	-	0.19J	-	-	0.16J	-	-	0.14J
	Chromium (III+VI)	mg/kg	0.54	110	-	-	9.9	-	-	8.8	-	-	8.9	-	-	10	-	-	9.5	-	-	8.7
	Copper	mg/kg	2.7	270	-	-	26	-	-	22	-	-	24	-	-	26	-	-	26	-	-	27
	Lead	mg/kg	1.1	400	-	-	34=	-	-	36	-	-	35	-	-	40	-	-	33	-	-	29
	Manganese	mg/kg	1.6	2000	-	-	550	-	-	460	-	-	350	-	-	650	-	-	370	-	-	350
	Nickel	mg/kg	4.3	310	-	-	19	-	-	17	-	-	18	-	-	19	-	-	17	-	-	16
	Selenium	mg/kg	0.43	180	-	-	<0.43U	-	-	1.2	-	-	0.57J	-	-	<0.44U	-	-	0.53J	-	-	<0.43U
	Silver	mg/kg	0.18	180	-	-	<0.18U	-	-	<0.19U	-	-	<0.18U	-	-	<0.18U	-	-	<0.18U	-	-	<0.18U
	Zinc	mg/kg	2.1	10000	-	-	82	-	-	64	-	-	74	-	-	90	-	-	68	-	-	65
	Mercury	mg/kg	0.031	0.81	-	-	0.16J+	-	-	0.34	-	-	0.34	-	-	0.24	-	-	0.18	-	-	0.072

DATA QUALIFIER DEFINITIONS

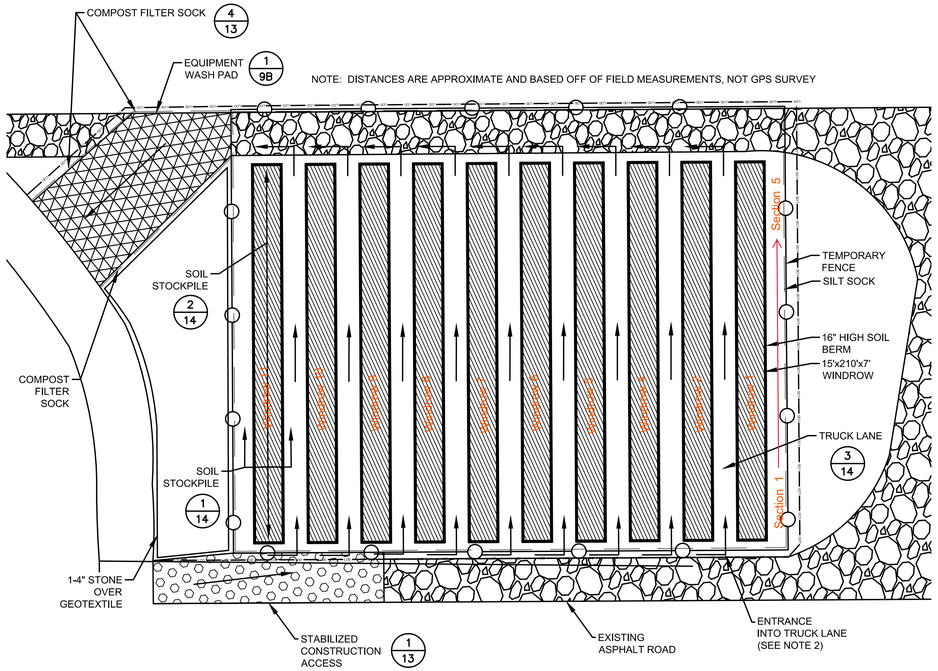
U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
J+ The analyte was positively identified; however, the associated numerical value is likely to be higher that the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.
J- The analyte was positively identified; however, the associated numerical value is likely to be lower that the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.
UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

TABLE 1
Request to Import/Reuse Fill or Soil - Windrows 4 to 5
Former Sperry Remington Site - North Portion
Elmira, New York

				Field_ID	W5_S2_A 71217	W5_S2_B 71217	W5_S2_C 71217	W5_S3_A 71217	W5_S3_B 71217	W5_S3_C 71217	W5_S4_A 71217	W5_S4_B 71217	W5_S4_C 71217	W5_S5_A 71217	W5_S5_B 71217	W5_S5_C 71217
				Sample Date	7/12/2017	7/12/2017	7/12/2017	7/12/2017	7/12/2017	7/12/2017	7/12/2017	7/12/2017	7/12/2017	7/12/2017	7/12/2017	7/12/2017
				NYSDEC DER10 App 5 Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010												
Group	**Analyte**	**Units**	**EQL**													
PCBs	Arochlor 1016	mg/kg	0.0093		-	-	<0.0096U	-	-	<0.0095U	-	-	<0.0095U	-	-	<0.0096U
	Arochlor 1221	mg/kg	0.0091		-	-	<0.0094U	-	-	<0.0092U	-	-	<0.0093U	-	-	<0.0094U
	Arochlor 1232	mg/kg	0.0069		-	-	<0.0072U	-	-	<0.0071U	-	-	<0.0071U	-	-	<0.0072U
	Arochlor 1242	mg/kg	0.014		-	-	<0.014U	-	-	<0.014U	-	-	<0.014U	-	-	<0.014U
	Arochlor 1248	mg/kg	0.018		-	-	0.48J	-	-	0.71J	-	-	0.91J	-	-	0.68J
	Arochlor 1254	mg/kg	0.018		-	-	0.3J	-	-	0.47J	-	-	0.64J	-	-	0.46J
	Arochlor 1260	mg/kg	0.018		-	-	0.089J	-	-	0.14J	-	-	0.19J	-	-	0.14J
	Arochlor 1268	mg/kg	0.0053		-	-	<0.0055U	-	-	<0.0054U	-	-	<0.0055U	-	-	<0.0055U
	Arochlor 1262	mg/kg	0.013		-	-	<0.013U	-	-	<0.013U	-	-	<0.013U	-	-	<0.013U
	Total PCBs	mg/kg		1	-	-	0.869	-	-	1.32	-	-	1.74	-	-	1.28
SVOCs	1,4-Dioxane	mg/kg	0.011	13	-	-	<0.053U	-	-	<0.011U	-	-	<0.028U	-	-	<0.016U
	2-methylphenol	mg/kg	0.0064	100	-	-	<0.031U	-	-	<0.0064U	-	-	<0.016U	-	-	<0.0096U
	4-methylphenol	mg/kg	0.0096	100	-	-	<0.031U	-	-	0.0072J	-	-	<0.016U	-	-	<0.0096U
	Acenaphthene	mg/kg	0.0073	100	-	-	<0.024U	-	-	0.013J	-	-	<0.012U	-	-	<0.0073U
	Acenaphthylene	mg/kg	0.015	100	-	-	0.19	-	-	0.16	-	-	0.12	-	-	0.067
	Anthracene	mg/kg	0.015	100	-	-	0.28	-	-	0.25	-	-	0.18	-	-	0.084
	Benz(a)anthracene	mg/kg	0.015	1	-	-	1	-	-	0.83	-	-	0.49	-	-	0.27
	Benzo(a) pyrene	mg/kg	0.015	1	-	-	1	-	-	0.87	-	-	0.49	-	-	0.27
	Benzo(b)fluoranthene	mg/kg	0.015	1	-	-	1.1	-	-	0.98	-	-	0.57	-	-	0.32
	Benzo(g,h,i)perylene	mg/kg	0.015	100	-	-	1	-	-	0.86	-	-	0.52	-	-	0.28
	Benzo(k)fluoranthene	mg/kg	0.015	3.9	-	-	0.4	-	-	0.38	-	-	0.22	-	-	0.12
	Chrysene	mg/kg	0.015	3.9	-	-	0.87	-	-	0.74	-	-	0.43	-	-	0.27
	Dibenz(a,h)anthracene	mg/kg	0.015	0.33	-	-	0.25	-	-	0.21	-	-	0.13	-	-	0.067
	Dibenzofuran	mg/kg	0.072	59	-	-	0.052J	-	-	0.044J	-	-	0.031J	-	-	0.039J
	Fluoranthene	mg/kg	0.015	100	-	-	1.6	-	-	1.4	-	-	0.83	-	-	0.41
	Fluorene	mg/kg	0.015	100	-	-	0.036J	-	-	0.034	-	-	0.024J	-	-	0.0087J
	Hexachlorobenzene	mg/kg	0.0058	1.2	-	-	<0.029U	-	-	<0.0058U	-	-	<0.015U	-	-	<0.0087U
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.015	0.5	-	-	0.95	-	-	0.78	-	-	0.44	-	-	0.24
	Naphthalene	mg/kg	0.015	100	-	-	0.17	-	-	0.17	-	-	0.095	-	-	0.39
	Pentachlorophenol	mg/kg	0.14	6.7	-	-	<0.67U	-	-	<0.14U	-	-	<0.35U	-	-	<0.2U
	Phenanthrene	mg/kg	0.015	100	-	-	0.58	-	-	0.61	-	-	0.38	-	-	0.18
	Phenol	mg/kg	0.0098	100	-	-	<0.048U	-	-	<0.0098U	-	-	<0.025U	-	-	<0.015U
	Pyrene	mg/kg	0.015	100	-	-	1.2	-	-	1.1	-	-	0.63	-	-	0.35
VOCs	1,1,1-trichloroethane	mg/kg	0.002	100	<0.0026U	<0.0026U	-	<0.0027U	<0.0026U	-	<0.0025U	<0.003U	-	<0.0023U	<0.0025U	-
	1,1-dichloroethane	mg/kg	0.0015	26	<0.0019U	<0.0019U	-	<0.002U	<0.0019U	-	<0.0018U	<0.0022U	-	<0.0017U	<0.0018U	-
	1,1-dichloroethene	mg/kg	0.0023	100	<0.003U	<0.003U	-	<0.0031U	<0.003U	-	<0.0029U	<0.0034U	-	<0.0026U	<0.0028U	-
	1,2,4-trimethylbenzene	mg/kg	0.0011	52	<0.0014U	<0.0014U	-	<0.0015U	<0.0014U	-	<0.0014U	<0.0016U	-	<0.0012U	<0.0013U	-
	1,2-dichlorobenzene	mg/kg	0.0032	100	<0.0042U	<0.0042U	-	<0.0044U	<0.0042U	-	<0.0041U	<0.0048U	-	<0.0037U	<0.004U	-
	1,2-dichloroethane	mg/kg	0.0012	3.1	<0.0015U	<0.0015U	-	<0.0016U	<0.0015U	-	<0.0015U	<0.0017U	-	<0.0013U	<0.0014U	-
	1,3,5-trimethylbenzene	mg/kg	0.0014	52	<0.0018U	<0.0018U	-	<0.0019U	<0.0018U	-	<0.0017U	<0.0021U	-	<0.0016U	<0.0017U	-
	1,3-dichlorobenzene	mg/kg	0.0013	49	<0.0017U	<0.0017U	-	<0.0017U	<0.0017U	-	<0.0016U	<0.0019U	-	<0.0015U	<0.0016U	-
	1,4-dichlorobenzene	mg/kg	0.00082	13	<0.0011U	<0.0011U	-	<0.0011U	<0.0011U	-	<0.001U	<0.0012U	-	<0.00094U	<0.001U	-
	Methyl Ethyl Ketone	mg/kg	0.0023	100	<0.003U	<0.003U	-	<0.0032U	<0.003U	-	<0.0029U	<0.0035U	-	<0.0027U	<0.0028U	-
	Acetone	mg/kg	0.0025	100	<0.0033U	<0.0033U	-	<0.0034U	<0.0033U	-	<0.0032U	<0.0038U	-	<0.0029U	<0.0031U	-
	Benzene	mg/kg	0.0016	4.8	<0.002U	<0.002U	-	<0.0021U	<0.002U	-	<0.002U	<0.0024U	-	<0.0018U	<0.0019U	-
	Carbon tetrachloride	mg/kg	0.0027	2.4	<0.0035U	<0.0034U	-	<0.0036U	<0.0034U	-	<0.0034U	<0.004U	-	<0.0031U	<0.0033U	-
	Chlorobenzene	mg/kg	0.0013	100	<0.0016U	<0.0016U	-	<0.0017U	<0.0016U	-	<0.0016U	<0.0019U	-	<0.0015U	<0.0015U	-
	Chloroform	mg/kg	0.0017	49	<0.0022U	<0.0022U	-	<0.0023U	<0.0022U	-	<0.0021U	<0.0025U	-	<0.002U	<0.0021U	-
	cis-1,2-dichloroethene	mg/kg	0.0013	100	<0.0016U	<0.0016U	-	<0.0017U	<0.0016U	-	<0.0016U	<0.0019U	-	<0.0015U	<0.0015U	-
	Dichloromethane	mg/kg	0.0019	100	<0.0025U	<0.0025U	-	<0.0026U	<0.0024U	-	<0.0024U	<0.0028U	-	<0.0022U	<0.0023U	-
	Ethylbenzene	mg/kg	0.0017	41	<0.0022U	<0.0022U	-	<0.0023U	<0.0022U	-	<0.0022U	<0.0026U	-	<0.002U	<0.0021U	-
	Methyl-tert-butyl ether	mg/kg	0.003	100	<0.0038U	<0.0038U	-	<0.004U	<0.0038U	-	<0.0037U	<0.0044U	-	<0.0034U	<0.0036U	-
	n-butylbenzene	mg/kg	0.003	100	<0.0039U	<0.0039U	-	<0.0041U	<0.0039U	-	<0.0038U	<0.0046U	-	<0.0035U	<0.0037U	-
	n-propylbenzene	mg/kg	0.0017	100	<0.0022U	<0.0022U	-	<0.0023U	<0.0022U	-	<0.0021U	<0.0025U	-	<0.002U	<0.0021U	-
	sec-butylbenzene	mg/kg	0.002	100	<0.0025U	<0.0025U	-	<0.0027U	<0.0025U	-	<0.0025U	<0.0029U	-	<0.0023U	<0.0024U	-
	Trichloroethene	mg/kg	0.0012	21	<0.0016U	<0.0016U	-	<0.0016U	<0.0016U	-	<0.0015U	<0.0018U	-	<0.0014U	<0.0015U	-
	tert-butylbenzene	mg/kg	0.0015	100	<0.0019U	<0.0019U	-	<0.002U	<0.0019U	-	<0.0019U	<0.0022U	-	<0.0017U	<0.0018U	-
	Tetrachloroethene	mg/kg	0.0016	19	<0.0021U	<0.0021U	-	<0.0022U	<0.0021U	-	<0.002U	<0.0024U	-	<0.0019U	<0.002U	-
	Toluene	mg/kg	0.0014	100	<0.0018U	<0.0018U	-	<0.0018U	<0.0017U	-	<0.0017U	<0.002U	-	<0.0016U	<0.0017U	-
	trans-1,2-dichloroethene	mg/kg	0.002	100	<0.0026U	<0.0026U	-	<0.0028U	<0.0026U	-	<0.0026U	<0.003U	-	<0.0023U	<0.0025U	-
	Vinyl chloride	mg/kg	0.0029	0.9	<0.0038U	<0.0038U	-	<0.004U	<0.0038U	-	<0.0037U	<0.0044U	-	<0.0034U	<0.0036U	-
	Xylene Total	mg/kg	0.0035	100	<0.0045U	<0.0045U	-	<0.0047U	<0.0045U	-	<0.0044U	<0.0052U	-	<0.004U	<0.0042U	-
Inorganics	Cyanide Total	mg/kg	0.14	27	-	-	<0.15U	-	-	<0.16U	-	-	<0.15U	-	-	<0.15U
Metals	Arsenic	mg/kg	1.1	16	-	-	4.9	-	-	6.3	-	-	11	-	-	10
	Barium	mg/kg	21	400	-	-	48	-	-	86	-	-	85	-	-	100
	Beryllium	mg/kg	0.43	72	-	-	0.29J	-	-	0.33J	-	-	0.42J	-	-	0.57
	Cadmium	mg/kg	0.54	4.3	-	-	0.14J	-	-	0.3J	-	-	0.62	-	-	0.22J
	Chromium (III+VI)	mg/kg	0.54	110	-	-	7.7	-	-	8.7	-	-	11	-	-	14
	Copper	mg/kg	2.7	270	-	-	39	-	-	22	-	-	25	-	-	28
	Lead	mg/kg	1.1	400	-	-	64	-	-	28	-	-	33	-	-	40
	Manganese	mg/kg	1.6	2000	-	-	300	-	-	360	-	-	510	-	-	570
	Nickel	mg/kg	4.3	310	-	-	14	-	-	16	-	-	23	-	-	27
	Selenium	mg/kg	0.43	180	-	-	<0.45U	-	-	0.55J	-	-	0.57J	-	-	<0.47U
	Silver	mg/kg	0.18	180	-	-	<0.19U	-	-	<0.2U	-	-	<0.19U	-	-	<0.19U
	Zinc	mg/kg	2.1	10000	-	-	72	-	-	63	-	-	76	-	-	89
	Mercury	mg/kg	0.031	0.81	-	-	0.11	-	-	0.24	-	-	0.27	-	-	0.2

DATA QUALIFIER DEFINITIONS

U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
J+ The analyte was positively identified; however, the associated numerical value is likely to be higher that the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.
J- The analyte was positively identified; however, the associated numerical value is likely to be lower that the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.
UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.



1/14 PLAN
STOCKPILE AREA
NTS

UNLOADING SEQUENCE:

1. TRUCK ENTERS TEMPORARY ENTRANCE INTO MSA.
2. TRUCK PULLS UP TO END OF ACTIVE WINDROW.
3. TRUCK BACKS ONTO ACTIVE WINDROW.
4. TRUCK UNLOADS AT END OF ACTIVE WINDROW.
5. TRUCK PULLS FORWARD INTO TRUCK LANE.
6. TRUCK EXITS ONTO ASPHALT ROAD
7. TRUCK ENTERS EQUIPMENT WASH PAD FOR WET DECON.
8. TRUCK EXITS EQUIPMENT WASH PAD AND RETURNS TO EXCAVATION AREA.

LOADING SEQUENCE:

1. TRUCK ENTERS TEMPORARY ENTRANCE INTO MSA.
2. TRUCK PULLS UP TO ACTIVE WINDROW TO BE LOADED, STAYING IN TRUCK LANE.
3. TRUCK IS LOADED BY EXCAVATOR.
4. TRUCK EXITS ONTO ASPHALT ROAD.
5. TRUCK ENTERS EQUIPMENT WASH PAD FOR WET DECON.
6. TRUCK EXITS EQUIPMENT WASH PAD AND RETURNS TO EXCAVATION AREA.

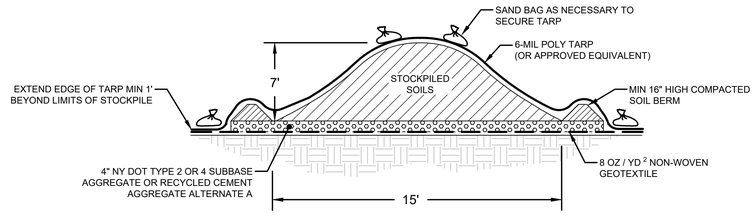


LEGEND

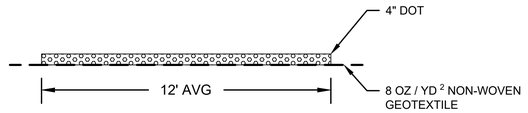
- CHAIN LINK FENCE
- COMPOST FILTER SOCK
- TRUCK TRANSFER DIRECTION
- STOCKPILE SOIL
- LOD — LIMIT OF DISTURBANCE 1/11 2 3

NOTES:

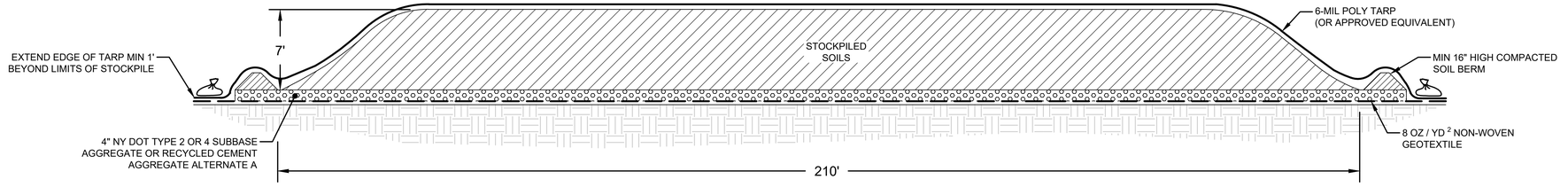
1. CONTRACTOR SHALL UTILIZE EARTH DIKE, COMPOST FILTER SOCK, AND DEWATERING SUMP PIT. 6
2. CONTRACTOR SHALL INSTALL TEMPORARY 6' TALL CHAIN LINK FENCING PARALLEL TO THE LIMITS OF CONSTRUCTION DISTURBANCE. FENCING SHALL INCLUDE VISUAL SCREENING.
3. SECTION(S) OF TEMPORARY FENCE WILL BE REMOVED TO CREATE AN ENTRANCE TO THE MSA AT THE BEGINNING OF EACH DAY OF UNLOADING OR LOADING OPERATIONS. SECTION LOCATION(S) MAY VARY. REMOVED SECTIONS SHALL BE RESTORED AND SECURED AT THE END OF EACH DAY OF MSA OPERATIONS.
4. STOCKPILING OF SOILS FOR POTENTIAL RE-USE SHALL BEGIN AT THE SOUTH END OF THE MSA.
5. STOCKPILING OF SOILS FOR POTENTIAL OFF-SITE TRANSPORT AND DISPOSAL AS NON-HAZARDOUS WASTE WILL BEGIN AT THE NORTH END OF THE MSA.
6. WINDROW LAYOUT ALLOWS FOR STOCKPILING OF APPROX. 4000 CUBIC YARDS (CY) OF SOIL. IF GREATER VOLUME IS REQUIRED, CONTRACTOR MAY REQUEST STOCKPILING OF SOILS WITH LIKE ANALYTICAL RESULTS APPROVED FOR RE-USE OR OFF-SITE DISPOSAL.
7. APPROX. 30 LINEAR FEET OF WINDROW IS EQUIVALENT TO 100 CY.
8. ALL TRUCKS WILL BE WET DECONNED BEFORE LEAVING THE MSA.



1/- DETAIL
SOIL STOCKPILE (SIDE VIEW)



3/- DETAIL
TRUCK LANE



2/- DETAIL
SOIL STOCKPILE (FRONT VIEW)

0 40' 80'
SCALE IN FEET

REV	DATE	DESCRIPTION	DRN	APP
6	7-11-17	ADDRESS NYSDEC COMMENTS	BGF	WMS/AK
5	6-30-17	ADDRESS NYSDEC COMMENTS	BGF	WMS/AK
4	6-13-17	ADDRESS NYSDEC COMMENTS	TSJ	WMS/AK
3	5-31-17	REVISE EXCAVATION AREAS AND SOIL STOCKPILE LOCATION	TSJ	WMS/AK
2	5-12-17	ADDRESS NYSDEC COMMENTS	BGF	WMS/AK
1	4-26-17	ADDRESS NYSDEC COMMENTS	BGF	WMS/AK
0	4-5-17	95% DESIGN - ISSUED FOR BID	TSJ	WMS/AK

Beech and Bonaparte engineering p.c.
an affiliate of Geosyntec Consultants

UNISYS

TITLE: MATERIAL STAGING AREA (MSA) PLAN

PROJECT: INTERIM REMEDIAL MEASURE

SITE: ELMIRA HIGH SCHOOL
ELMIRA, NEW YORK

SIGNATURE
7/11/2017
DATE

ANNA A. KRASNOPOLSKI — STATE OF NEW YORK — 089954-1 — LICENSED PROFESSIONAL ENGINEER

DESIGN BY:		DATE:	MAY 2017
DRAWN BY:	TSJ	PROJECT NO.:	MN0832
CHECKED BY:	AK	FILE:	Stockpile Detail
REVIEWED BY:	PLB	DRAWING NO.:	14 OF 14
APPROVED BY:	AK		

P:\Jobs\Geo-minneapolis\0832 elmira\0832-400\0832-414.dwg, Stockpile Area, 7/11/2017 2:39:05 PM, bfenick

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

TestAmerica Job ID: 180-68140-1
Client Project/Site: Former Sperry Remington Site - North IRM

For:
Geosyntec Consultants, Inc.
10211 Wincopin Circle
4'th Floor
Columbia, Maryland 21044

Attn: Mr. Aron Krasnopoler

Authorized for release by:
7/20/2017 5:46:13 PM
Veronica Bortot, Senior Project Manager
(412)963-2435
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Designee for

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LINKS

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Job ID: 180-68140-1

Laboratory: TestAmerica Pittsburgh

Narrative

Job Narrative
180-68140-1

Comments
No additional comments.

Receipt
The samples were received on 7/14/2017 9:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 0.8º C, 0.8º C and 2.6º C.

Receipt Exceptions

The 3 coolers with the samples did not arrive at the lab. The client was notified. The VOA terra cores were recollected to ensure that the 48 hr holding times would be met. The coolers were received the following day within temperature . With the exception of the expired VOA terra cores, all other terra cores were logged into this job . The recollected VOA terra cores were logged into job 180-68219-2

GC/MS VOA
Method(s) 8260C: The continuing calibration verification (CCV) analyzed in batch 180-217186 was outside the method criteria for the following analyte: Carbon Tetrachloride. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte is considered estimated.

Method(s) 8260C: Internal standard responses were outside of acceptance limits for the following sample: W5, S1, A 71217 (180-68140-28). The sample shows evidence of matrix interference. Internal Standard TBA-d9 was low but is not used to calculate results for any target analytes. Internal Standard 1,4-Dichlorobenzene-d4 recovered low by three percent. This will be reported and narrated because when the sample was re-analyzed all internal standard recoveries were very low.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method(s) 8270D LL: The following samples was diluted due to the nature of the sample matrix (extract viscous, dark in color): W4, S2, C 71217 (180-68140-6), W5, S5, C 71217 (180-68140-18) and W5, S4, C 71217 (180-68140-21). This is the lowest dilution possible for these samples. Elevated reporting limits (RLs) are provided.

Method(s) 8270D LL: The following samples was diluted to bring the concentration of target analytes within the calibration range: W4, S1, C 71217 (180-68140-3), W5, S3, C 71217 (180-68140-24), W5, S2, C 71217 (180-68140-27) and W5, S1, C 71217 (180-68140-30). Elevated reporting limits (RLs) are provided.

Method(s) 8270D LL: The following sample was diluted due to the nature of the sample matrix (extract viscous, dark in color): DUP-6 (180-68140-31). This is the lowest dilution possible for these samples. Elevated reporting limits (RLs) are provided.

Method(s) 8270D LL: The continuing calibration verification (CCV) associated with batch 180-217242 recovered above the upper control limit for Pentachlorophenol. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method(s) 8270D LL: The continuing calibration verification (CCV) analyzed in batch 180-217242 was outside the method criteria for the following analyte(s): Benzo[g,h,i]perylene was >20% low. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method(s) 8270D LL: The following samples was diluted to bring the concentration of target analytes within the calibration range (extract viscous, dark in color): W4, S3, C 71217 (180-68140-9), W4, S4, C 71217 (180-68140-12) and W4, S5, C 71217 (180-68140-15). This is the lowest dilution possible for these samples. Elevated reporting limits (RLs) are provided.

Job ID: 180-68140-1 (Continued)

Laboratory: TestAmerica Pittsburgh (Continued)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals
Method(s) 7471B: The matrix spike (MS) recoveries for 217422 were outside the control limits for mercury. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) 7471B: The matrix spike / matrix spike duplicate (MS/MSD) precision for 217422 was outside the control limits for mercury. Sample matrix interference is suspected.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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Definitions/Glossary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68140-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	ISTD response or retention time outside acceptable limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc. TestAmerica Job ID: 180-68140-1
Project/Site: Former Sperry Remington Site - North IRM

Laboratory: TestAmerica Pittsburgh

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	11182	03-31-18

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
2540G		Solid	Percent Moisture
2540G		Solid	Percent Solids
8270D LL	3541	Solid	1,4-Dioxane

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68140-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-68140-3	W4, S1, C 71217	Solid	07/12/17 08:45	07/12/17 21:10
180-68140-6	W4, S2, C 71217	Solid	07/12/17 09:25	07/12/17 21:10
180-68140-9	W4, S3, C 71217	Solid	07/12/17 09:55	07/12/17 21:10
180-68140-12	W4, S4, C 71217	Solid	07/12/17 10:25	07/12/17 21:10
180-68140-15	W4, S5, C 71217	Solid	07/12/17 11:55	07/12/17 21:10
180-68140-16	W5, S5, A 71217	Solid	07/12/17 12:25	07/12/17 21:10
180-68140-17	W5, S5, B 71217	Solid	07/12/17 12:30	07/12/17 21:10
180-68140-18	W5, S5, C 71217	Solid	07/12/17 12:35	07/12/17 21:10
180-68140-19	W5, S4, A 71217	Solid	07/12/17 12:45	07/12/17 21:10
180-68140-20	W5, S4, B 71217	Solid	07/12/17 12:50	07/12/17 21:10
180-68140-21	W5, S4, C 71217	Solid	07/12/17 12:55	07/12/17 21:10
180-68140-22	W5, S3, A 71217	Solid	07/12/17 13:15	07/12/17 21:10
180-68140-23	W5, S3, B 71217	Solid	07/12/17 13:20	07/12/17 21:10
180-68140-24	W5, S3, C 71217	Solid	07/12/17 13:25	07/12/17 21:10
180-68140-25	W5, S2, A 71217	Solid	07/12/17 13:45	07/12/17 21:10
180-68140-26	W5, S2, B 71217	Solid	07/12/17 13:50	07/12/17 21:10
180-68140-27	W5, S2, C 71217	Solid	07/12/17 13:55	07/12/17 21:10
180-68140-28	W5, S1, A 71217	Solid	07/12/17 14:15	07/12/17 21:10
180-68140-29	W5, S1, B 71217	Solid	07/12/17 14:20	07/12/17 21:10
180-68140-30	W5, S1, C 71217	Solid	07/12/17 14:25	07/12/17 21:10
180-68140-31	DUP-6	Solid	07/12/17 00:00	07/12/17 21:10
180-68140-32	DUP-7	Solid	07/12/17 00:00	07/12/17 21:10
180-68140-33	DUP-8	Solid	07/12/17 00:00	07/12/17 21:10
180-68140-34	TRIP BLANK 1	Water	07/12/17 00:00	07/12/17 21:10
180-68140-35	TRIP BLANK 2	Water	07/12/17 00:00	07/12/17 21:10

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68140-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL PIT
8260C	Volatile Organic Compounds (GC/MS)	SW846	TAL PIT
8270D LL	Semivolatile Organic Compounds by GC/MS - Low Level	SW846	TAL PIT
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL PIT
6010C	Metals (ICP)	SW846	TAL PIT
7471B	Mercury (CVAA)	SW846	TAL PIT
2540G	SM 2540G	SM22	TAL PIT
9014	Cyanide	SW846	TAL PIT

Protocol References:

SM22 = SM22

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68140-1

Client Sample ID: W4, S1, C 71217
Date Collected: 07/12/17 08:45
Date Received: 07/12/17 21:10

Lab Sample ID: 180-68140-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			217112	07/14/17 13:15	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W4, S1, C 71217
Date Collected: 07/12/17 08:45
Date Received: 07/12/17 21:10

Lab Sample ID: 180-68140-3
Matrix: Solid
Percent Solids: 92.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.2 g	0.5 mL	217139	07/15/17 04:42	BAP	TAL PIT
Total/NA	Analysis	8270D LL		4	1 mL	1 mL	217242	07/17/17 17:18	DLF	TAL PIT
	Instrument ID: CH71									
Total/NA	Prep	3541			15.5 g	20.0 mL	217140	07/15/17 04:45	BAP	TAL PIT
Total/NA	Analysis	8082A		1			217178	07/15/17 22:33	JMO	TAL PIT
	Instrument ID: CHGC16									
Total/NA	Cleanup	3665A			2 mL	2 mL	217281	07/17/17 12:16	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	217282	07/17/17 12:17	JMO	TAL PIT
Total/NA	Prep	3050B			1.01 g	100 mL	217101	07/14/17 11:31	CRM	TAL PIT
Total/NA	Analysis	6010C		1			217275	07/17/17 08:08	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.64 g	100 mL	217422	07/18/17 14:49	RJR	TAL PIT
Total/NA	Analysis	7471B		1			217578	07/19/17 11:59	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.12 g	50 mL	217382	07/18/17 10:56	JAS	TAL PIT
Total/NA	Analysis	9014		1			217445	07/18/17 14:07	JAS	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: W4, S2, C 71217
Date Collected: 07/12/17 09:25
Date Received: 07/12/17 21:10

Lab Sample ID: 180-68140-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			217112	07/14/17 13:15	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W4, S2, C 71217
Date Collected: 07/12/17 09:25
Date Received: 07/12/17 21:10

Lab Sample ID: 180-68140-6
Matrix: Solid
Percent Solids: 90.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.1 g	0.5 mL	217139	07/15/17 04:42	BAP	TAL PIT
Total/NA	Analysis	8270D LL		4	1 mL	1 mL	217242	07/17/17 17:46	DLF	TAL PIT
	Instrument ID: CH71									
Total/NA	Prep	3541			15.1 g	20.0 mL	217140	07/15/17 04:45	BAP	TAL PIT

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68140-1

Client Sample ID: W4, S2, C 71217

Date Collected: 07/12/17 09:25
Date Received: 07/12/17 21:10

Lab Sample ID: 180-68140-6

Matrix: Solid
Percent Solids: 90.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8082A		1			217178	07/15/17 22:55	JMO	TAL PIT
	Instrument ID: CHGC16									
Total/NA	Cleanup	3665A			2 mL	2 mL	217281	07/17/17 12:16	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	217282	07/17/17 12:17	JMO	TAL PIT
Total/NA	Prep	3050B			0.97 g	100 mL	217101	07/14/17 11:31	CRM	TAL PIT
Total/NA	Analysis	6010C		1			217275	07/17/17 08:34	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.58 g	100 mL	217422	07/18/17 14:49	RJR	TAL PIT
Total/NA	Analysis	7471B		1			217578	07/19/17 12:05	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.18 g	50 mL	217382	07/18/17 10:56	JAS	TAL PIT
Total/NA	Analysis	9014		1			217445	07/18/17 14:09	JAS	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: W4, S3, C 71217

Date Collected: 07/12/17 09:55
Date Received: 07/12/17 21:10

Lab Sample ID: 180-68140-9

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			217112	07/14/17 13:15	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W4, S3, C 71217

Date Collected: 07/12/17 09:55
Date Received: 07/12/17 21:10

Lab Sample ID: 180-68140-9

Matrix: Solid
Percent Solids: 91.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.4 g	0.5 mL	217139	07/15/17 04:42	BAP	TAL PIT
Total/NA	Analysis	8270D LL		10	1 mL	1 mL	217155	07/15/17 20:01	DLF	TAL PIT
	Instrument ID: CH71									
Total/NA	Prep	3541			15.4 g	20.0 mL	217140	07/15/17 04:45	BAP	TAL PIT
Total/NA	Analysis	8082A		1			217178	07/15/17 23:16	JMO	TAL PIT
	Instrument ID: CHGC16									
Total/NA	Cleanup	3665A			2 mL	2 mL	217281	07/17/17 12:16	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	217282	07/17/17 12:17	JMO	TAL PIT
Total/NA	Prep	3050B			1.00 g	100 mL	217101	07/14/17 11:31	CRM	TAL PIT
Total/NA	Analysis	6010C		1			217275	07/17/17 08:39	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.70 g	100 mL	217422	07/18/17 14:49	RJR	TAL PIT
Total/NA	Analysis	7471B		1			217578	07/19/17 12:07	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.16 g	50 mL	217382	07/18/17 10:56	JAS	TAL PIT
Total/NA	Analysis	9014		1			217445	07/18/17 14:11	JAS	TAL PIT
	Instrument ID: SEAL2									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68140-1

Client Sample ID: W4, S4, C 71217
Date Collected: 07/12/17 10:25
Date Received: 07/12/17 21:10

Lab Sample ID: 180-68140-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			217112	07/14/17 13:15	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W4, S4, C 71217
Date Collected: 07/12/17 10:25
Date Received: 07/12/17 21:10

Lab Sample ID: 180-68140-12
Matrix: Solid
Percent Solids: 89.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.5 g	0.5 mL	217139	07/15/17 04:42	BAP	TAL PIT
Total/NA	Analysis	8270D LL		10	1 mL	1 mL	217155	07/15/17 20:28	DLF	TAL PIT
	Instrument ID: CH71									
Total/NA	Prep	3541			15.0 g	20.0 mL	217140	07/15/17 04:45	BAP	TAL PIT
Total/NA	Analysis	8082A		1			217178	07/15/17 23:38	JMO	TAL PIT
	Instrument ID: CHGC16									
Total/NA	Cleanup	3665A			2 mL	2 mL	217281	07/17/17 12:16	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	217282	07/17/17 12:17	JMO	TAL PIT
Total/NA	Prep	3050B			1.00 g	100 mL	217101	07/14/17 11:31	CRM	TAL PIT
Total/NA	Analysis	6010C		1			217275	07/17/17 08:44	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.59 g	100 mL	217422	07/18/17 14:49	RJR	TAL PIT
Total/NA	Analysis	7471B		1			217578	07/19/17 12:09	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.11 g	50 mL	217382	07/18/17 10:56	JAS	TAL PIT
Total/NA	Analysis	9014		1			217445	07/18/17 14:12	JAS	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: W4, S5, C 71217
Date Collected: 07/12/17 11:55
Date Received: 07/12/17 21:10

Lab Sample ID: 180-68140-15
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			217112	07/14/17 13:15	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W4, S5, C 71217
Date Collected: 07/12/17 11:55
Date Received: 07/12/17 21:10

Lab Sample ID: 180-68140-15
Matrix: Solid
Percent Solids: 90.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	0.5 mL	217139	07/15/17 04:42	BAP	TAL PIT
Total/NA	Analysis	8270D LL		4	1 mL	1 mL	217155	07/15/17 20:56	DLF	TAL PIT
	Instrument ID: CH71									
Total/NA	Prep	3541			15.3 g	20.0 mL	217140	07/15/17 04:45	BAP	TAL PIT

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68140-1

Client Sample ID: W4, S5, C 71217
Date Collected: 07/12/17 11:55
Date Received: 07/12/17 21:10

Lab Sample ID: 180-68140-15
Matrix: Solid
Percent Solids: 90.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8082A		1			217178	07/15/17 23:58	JMO	TAL PIT
	Instrument ID: CHGC16									
Total/NA	Cleanup	3665A			2 mL	2 mL	217281	07/17/17 12:16	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	217282	07/17/17 12:17	JMO	TAL PIT
Total/NA	Prep	3050B			1.03 g	100 mL	217101	07/14/17 11:31	CRM	TAL PIT
Total/NA	Analysis	6010C		1			217275	07/17/17 08:59	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.61 g	100 mL	217422	07/18/17 14:49	RJR	TAL PIT
Total/NA	Analysis	7471B		1			217578	07/19/17 12:11	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.11 g	50 mL	217382	07/18/17 10:56	JAS	TAL PIT
Total/NA	Analysis	9014		1			217445	07/18/17 14:14	JAS	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: W5, S5, A 71217
Date Collected: 07/12/17 12:25
Date Received: 07/12/17 21:10

Lab Sample ID: 180-68140-16
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			217112	07/14/17 13:15	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W5, S5, A 71217
Date Collected: 07/12/17 12:25
Date Received: 07/12/17 21:10

Lab Sample ID: 180-68140-16
Matrix: Solid
Percent Solids: 90.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.9749 g	5 mL	217187	07/16/17 09:00	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	217186	07/16/17 15:44	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W5, S5, B 71217
Date Collected: 07/12/17 12:30
Date Received: 07/12/17 21:10

Lab Sample ID: 180-68140-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			217112	07/14/17 13:15	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W5, S5, B 71217

Lab Sample ID: 180-68140-17
Date Collected: 07/12/17 12:30
Matrix: Solid
Date Received: 07/12/17 21:10
Percent Solids: 86.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.9115 g	5 mL	217220	07/17/17 05:28	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	217209	07/17/17 12:23	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W5, S5, C 71217

Lab Sample ID: 180-68140-18
Date Collected: 07/12/17 12:35
Matrix: Solid
Date Received: 07/12/17 21:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			217112	07/14/17 13:15	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W5, S5, C 71217

Lab Sample ID: 180-68140-18
Date Collected: 07/12/17 12:35
Matrix: Solid
Date Received: 07/12/17 21:10
Percent Solids: 90.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.3 g	0.5 mL	217139	07/15/17 04:42	BAP	TAL PIT
Total/NA	Analysis	8270D LL		3	1 mL	1 mL	217242	07/17/17 18:13	DLF	TAL PIT
	Instrument ID: CH71									
Total/NA	Prep	3541			15.2 g	20.0 mL	217140	07/15/17 04:45	BAP	TAL PIT
Total/NA	Analysis	8082A		1			217178	07/16/17 00:20	JMO	TAL PIT
	Instrument ID: CHGC16									
Total/NA	Cleanup	3665A			2 mL	2 mL	217281	07/17/17 12:16	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	217282	07/17/17 12:17	JMO	TAL PIT
Total/NA	Prep	3050B			0.94 g	100 mL	217101	07/14/17 11:31	CRM	TAL PIT
Total/NA	Analysis	6010C		1			217275	07/17/17 09:04	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.61 g	100 mL	217422	07/18/17 14:49	RJR	TAL PIT
Total/NA	Analysis	7471B		1			217578	07/19/17 12:13	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.15 g	50 mL	217382	07/18/17 10:56	JAS	TAL PIT
Total/NA	Analysis	9014		1			217445	07/18/17 14:16	JAS	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: W5, S4, A 71217

Lab Sample ID: 180-68140-19
Date Collected: 07/12/17 12:45
Matrix: Solid
Date Received: 07/12/17 21:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			217112	07/14/17 13:15	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W5, S4, A 71217

Lab Sample ID: 180-68140-19
Date Collected: 07/12/17 12:45
Matrix: Solid
Date Received: 07/12/17 21:10
Percent Solids: 92.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.3341 g	5 mL	217220	07/17/17 05:28	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	217209	07/17/17 12:01	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W5, S4, B 71217

Lab Sample ID: 180-68140-20
Date Collected: 07/12/17 12:50
Matrix: Solid
Date Received: 07/12/17 21:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			217112	07/14/17 13:15	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W5, S4, B 71217

Lab Sample ID: 180-68140-20
Date Collected: 07/12/17 12:50
Matrix: Solid
Date Received: 07/12/17 21:10
Percent Solids: 85.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.893 g	5 mL	217187	07/16/17 09:00	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	217186	07/16/17 16:53	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W5, S4, C 71217

Lab Sample ID: 180-68140-21
Date Collected: 07/12/17 12:55
Matrix: Solid
Date Received: 07/12/17 21:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			217112	07/14/17 13:15	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W5, S4, C 71217

Lab Sample ID: 180-68140-21
Date Collected: 07/12/17 12:55
Matrix: Solid
Date Received: 07/12/17 21:10
Percent Solids: 91.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	0.5 mL	217139	07/15/17 04:42	BAP	TAL PIT
Total/NA	Analysis	8270D LL		5	1 mL	1 mL	217242	07/17/17 18:41	DLF	TAL PIT
	Instrument ID: CH71									
Total/NA	Prep	3541			15.3 g	20.0 mL	217140	07/15/17 04:45	BAP	TAL PIT
Total/NA	Analysis	8082A		1			217178	07/16/17 00:42	JMO	TAL PIT
	Instrument ID: CHGC16									
Total/NA	Cleanup	3665A			2 mL	2 mL	217281	07/17/17 12:16	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	217282	07/17/17 12:17	JMO	TAL PIT
Total/NA	Prep	3050B			0.96 g	100 mL	217101	07/14/17 11:31	CRM	TAL PIT

Client Sample ID: W5, S4, C 71217

Lab Sample ID: 180-68140-21
Date Collected: 07/12/17 12:55
Matrix: Solid
Date Received: 07/12/17 21:10
Percent Solids: 91.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	6010C		1			217275	07/17/17 09:10	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.60 g	100 mL	217422	07/18/17 14:49	RJR	TAL PIT
Total/NA	Analysis	7471B		1			217578	07/19/17 12:20	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.13 g	50 mL	217382	07/18/17 10:56	JAS	TAL PIT
Total/NA	Analysis	9014		1			217445	07/18/17 14:21	JAS	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: W5, S3, A 71217

Lab Sample ID: 180-68140-22
Date Collected: 07/12/17 13:15
Matrix: Solid
Date Received: 07/12/17 21:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			217112	07/14/17 13:15	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W5, S3, A 71217

Lab Sample ID: 180-68140-22
Date Collected: 07/12/17 13:15
Matrix: Solid
Date Received: 07/12/17 21:10
Percent Solids: 93.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.8859 g	5 mL	217220	07/17/17 05:28	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	217209	07/17/17 12:46	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W5, S3, B 71217

Lab Sample ID: 180-68140-23
Date Collected: 07/12/17 13:20
Matrix: Solid
Date Received: 07/12/17 21:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			217112	07/14/17 13:15	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W5, S3, B 71217

Lab Sample ID: 180-68140-23
Date Collected: 07/12/17 13:20
Matrix: Solid
Date Received: 07/12/17 21:10
Percent Solids: 92.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.2331 g	5 mL	217187	07/16/17 09:00	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	217186	07/16/17 17:38	KLG	TAL PIT
	Instrument ID: CHHP3									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68140-1

Client Sample ID: W5, S3, C 71217
Date Collected: 07/12/17 13:25
Date Received: 07/12/17 21:10

Lab Sample ID: 180-68140-24
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			217112	07/14/17 13:15	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W5, S3, C 71217
Date Collected: 07/12/17 13:25
Date Received: 07/12/17 21:10

Lab Sample ID: 180-68140-24
Matrix: Solid
Percent Solids: 90.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.2 g	0.5 mL	217139	07/15/17 04:42	BAP	TAL PIT
Total/NA	Analysis	8270D LL		2	1 mL	1 mL	217242	07/17/17 19:08	DLF	TAL PIT
	Instrument ID: CH71									
Total/NA	Prep	3541			15.4 g	20.0 mL	217140	07/15/17 04:45	BAP	TAL PIT
Total/NA	Analysis	8082A		1			217178	07/16/17 01:47	JMO	TAL PIT
	Instrument ID: CHGC16									
Total/NA	Cleanup	3665A			2 mL	2 mL	217281	07/17/17 12:16	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	217282	07/17/17 12:17	JMO	TAL PIT
Total/NA	Prep	3050B			0.93 g	100 mL	217101	07/14/17 11:31	CRM	TAL PIT
Total/NA	Analysis	6010C		1			217275	07/17/17 09:15	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.61 g	100 mL	217422	07/18/17 14:49	RJR	TAL PIT
Total/NA	Analysis	7471B		1			217578	07/19/17 12:22	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.07 g	50 mL	217382	07/18/17 10:56	JAS	TAL PIT
Total/NA	Analysis	9014		1			217445	07/18/17 14:23	JAS	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: W5, S2, A 71217
Date Collected: 07/12/17 13:45
Date Received: 07/12/17 21:10

Lab Sample ID: 180-68140-25
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			217112	07/14/17 13:15	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W5, S2, A 71217
Date Collected: 07/12/17 13:45
Date Received: 07/12/17 21:10

Lab Sample ID: 180-68140-25
Matrix: Solid
Percent Solids: 94.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.0966 g	5 mL	217187	07/16/17 09:00	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	217186	07/16/17 18:01	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W5, S2, B 71217
Date Collected: 07/12/17 13:50
Date Received: 07/12/17 21:10

Lab Sample ID: 180-68140-26
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			217112	07/14/17 13:15	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W5, S2, B 71217
Date Collected: 07/12/17 13:50
Date Received: 07/12/17 21:10

Lab Sample ID: 180-68140-26
Matrix: Solid
Percent Solids: 92.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.2075 g	5 mL	217187	07/16/17 09:00	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	217186	07/16/17 18:23	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W5, S2, C 71217
Date Collected: 07/12/17 13:55
Date Received: 07/12/17 21:10

Lab Sample ID: 180-68140-27
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			217112	07/14/17 13:15	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W5, S2, C 71217
Date Collected: 07/12/17 13:55
Date Received: 07/12/17 21:10

Lab Sample ID: 180-68140-27
Matrix: Solid
Percent Solids: 91.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.4 g	0.5 mL	217139	07/15/17 04:42	BAP	TAL PIT
Total/NA	Analysis	8270D LL		10	1 mL	1 mL	217242	07/17/17 19:35	DLF	TAL PIT
	Instrument ID: CH71									
Total/NA	Prep	3541			15.1 g	20.0 mL	217140	07/15/17 04:45	BAP	TAL PIT
Total/NA	Analysis	8082A		1			217178	07/16/17 02:09	JMO	TAL PIT
	Instrument ID: CHGC16									
Total/NA	Cleanup	3665A			2 mL	2 mL	217281	07/17/17 12:16	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	217282	07/17/17 12:17	JMO	TAL PIT
Total/NA	Prep	3050B			0.95 g	100 mL	217101	07/14/17 11:31	CRM	TAL PIT
Total/NA	Analysis	6010C		1			217275	07/17/17 09:20	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.57 g	100 mL	217422	07/18/17 14:49	RJR	TAL PIT
Total/NA	Analysis	7471B		1			217578	07/19/17 12:24	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.13 g	50 mL	217382	07/18/17 10:56	JAS	TAL PIT
Total/NA	Analysis	9014		1			217445	07/18/17 14:25	JAS	TAL PIT
	Instrument ID: SEAL2									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68140-1

Client Sample ID: W5, S1, A 71217
Date Collected: 07/12/17 14:15
Date Received: 07/12/17 21:10

Lab Sample ID: 180-68140-28
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			217112	07/14/17 13:15	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W5, S1, A 71217
Date Collected: 07/12/17 14:15
Date Received: 07/12/17 21:10

Lab Sample ID: 180-68140-28
Matrix: Solid
Percent Solids: 92.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.9319 g	5 mL	217187	07/16/17 09:00	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	217186	07/16/17 18:47	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W5, S1, B 71217
Date Collected: 07/12/17 14:20
Date Received: 07/12/17 21:10

Lab Sample ID: 180-68140-29
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			217112	07/14/17 13:15	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W5, S1, B 71217
Date Collected: 07/12/17 14:20
Date Received: 07/12/17 21:10

Lab Sample ID: 180-68140-29
Matrix: Solid
Percent Solids: 94.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.5331 g	5 mL	217187	07/16/17 09:00	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	217186	07/16/17 19:09	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W5, S1, C 71217
Date Collected: 07/12/17 14:25
Date Received: 07/12/17 21:10

Lab Sample ID: 180-68140-30
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			217112	07/14/17 13:15	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W5, S1, C 71217
Date Collected: 07/12/17 14:25
Date Received: 07/12/17 21:10

Lab Sample ID: 180-68140-30
Matrix: Solid
Percent Solids: 93.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.1 g	0.5 mL	217139	07/15/17 04:42	BAP	TAL PIT

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68140-1

Client Sample ID: W5, S1, C 71217

Date Collected: 07/12/17 14:25
Date Received: 07/12/17 21:10

Lab Sample ID: 180-68140-30

Matrix: Solid
Percent Solids: 93.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8270D LL		4	1 mL	1 mL	217242	07/17/17 20:03	DLF	TAL PIT
	Instrument ID: CH71									
Total/NA	Prep	3541			15.1 g	20.0 mL	217140	07/15/17 04:45	BAP	TAL PIT
Total/NA	Analysis	8082A		1			217178	07/16/17 02:31	JMO	TAL PIT
	Instrument ID: CHGC16									
Total/NA	Cleanup	3665A			2 mL	2 mL	217281	07/17/17 12:16	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	217282	07/17/17 12:17	JMO	TAL PIT
Total/NA	Prep	3050B			0.99 g	100 mL	217101	07/14/17 11:31	CRM	TAL PIT
Total/NA	Analysis	6010C		1			217275	07/17/17 09:25	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.63 g	100 mL	217422	07/18/17 14:49	RJR	TAL PIT
Total/NA	Analysis	7471B		1			217578	07/19/17 12:26	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.07 g	50 mL	217382	07/18/17 10:56	JAS	TAL PIT
Total/NA	Analysis	9014		1			217445	07/18/17 14:26	JAS	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: DUP-6

Date Collected: 07/12/17 00:00
Date Received: 07/12/17 21:10

Lab Sample ID: 180-68140-31

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			217115	07/14/17 14:00	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: DUP-6

Date Collected: 07/12/17 00:00
Date Received: 07/12/17 21:10

Lab Sample ID: 180-68140-31

Matrix: Solid
Percent Solids: 88.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.2 g	0.5 mL	217139	07/15/17 04:42	BAP	TAL PIT
Total/NA	Analysis	8270D LL		20	1 mL	1 mL	217242	07/17/17 20:30	DLF	TAL PIT
	Instrument ID: CH71									
Total/NA	Prep	3541			15.3 g	20.0 mL	217140	07/15/17 04:45	BAP	TAL PIT
Total/NA	Analysis	8082A		1			217178	07/16/17 02:52	JMO	TAL PIT
	Instrument ID: CHGC16									
Total/NA	Cleanup	3665A			2 mL	2 mL	217281	07/17/17 12:16	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	217282	07/17/17 12:17	JMO	TAL PIT
Total/NA	Prep	3050B			0.96 g	100 mL	217101	07/14/17 11:31	CRM	TAL PIT
Total/NA	Analysis	6010C		1			217275	07/17/17 09:30	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.56 g	100 mL	217422	07/18/17 14:49	RJR	TAL PIT
Total/NA	Analysis	7471B		1			217578	07/19/17 12:28	RJR	TAL PIT
	Instrument ID: K									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68140-1

Client Sample ID: DUP-6

Date Collected: 07/12/17 00:00
Date Received: 07/12/17 21:10

Lab Sample ID: 180-68140-31

Matrix: Solid
Percent Solids: 88.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	9010C			1.16 g	50 mL	217382	07/18/17 10:56	JAS	TAL PIT
Total/NA	Analysis	9014		1			217445	07/18/17 14:28	JAS	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: DUP-7

Date Collected: 07/12/17 00:00
Date Received: 07/12/17 21:10

Lab Sample ID: 180-68140-32

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			217115	07/14/17 14:00	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: DUP-7

Date Collected: 07/12/17 00:00
Date Received: 07/12/17 21:10

Lab Sample ID: 180-68140-32

Matrix: Solid
Percent Solids: 92.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.903 g	5 mL	217220	07/17/17 05:28	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	217209	07/17/17 13:31	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: DUP-8

Date Collected: 07/12/17 00:00
Date Received: 07/12/17 21:10

Lab Sample ID: 180-68140-33

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			217115	07/14/17 14:00	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: DUP-8

Date Collected: 07/12/17 00:00
Date Received: 07/12/17 21:10

Lab Sample ID: 180-68140-33

Matrix: Solid
Percent Solids: 90.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.7938 g	5 mL	217220	07/17/17 05:28	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	217209	07/17/17 13:54	KLG	TAL PIT
	Instrument ID: CHHP3									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68140-1

Client Sample ID: TRIP BLANK 1

Lab Sample ID: 180-68140-34
Matrix: Water
Date Collected: 07/12/17 00:00
Date Received: 07/12/17 21:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	217455	07/19/17 12:28	FBB	TAL PIT
	Instrument ID: CHHP6									

Client Sample ID: TRIP BLANK 2

Lab Sample ID: 180-68140-35
Matrix: Water
Date Collected: 07/12/17 00:00
Date Received: 07/12/17 21:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	217455	07/19/17 12:52	FBB	TAL PIT
	Instrument ID: CHHP6									

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Analyst References:

Lab: TAL PIT

Batch Type: Cleanup

JMO = John Oravec

Batch Type: Prep

BAP = Brian Pino

CRM = Caitlin McEvoy

JAS = Joshua Schmidt

KLG = Kathy Gordon

RJR = Ron Rosenbaum

Batch Type: Analysis

DLF = Donald Ferguson

FBB = Frank Bungard

JAS = Joshua Schmidt

JMO = John Oravec

JTL = Justin Landry

KLG = Kathy Gordon

RJG = Rob Good

RJR = Ron Rosenbaum

Client Sample ID: W4, S1, C 71217
Date Collected: 07/12/17 08:45
Date Received: 07/12/17 21:10

Lab Sample ID: 180-68140-3
Matrix: Solid
Percent Solids: 92.0

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.012**	**J**	0.029	0.0096	mg/Kg	☼	07/15/17 04:42	07/17/17 17:18	4
Acenaphthylene	**0.20**		0.029	0.0097	mg/Kg	☼	07/15/17 04:42	07/17/17 17:18	4
Anthracene	**0.27**		0.029	0.011	mg/Kg	☼	07/15/17 04:42	07/17/17 17:18	4
Benzo[a]anthracene	**0.77**		0.029	0.011	mg/Kg	☼	07/15/17 04:42	07/17/17 17:18	4
Benzo[a]pyrene	**0.75**		0.029	0.012	mg/Kg	☼	07/15/17 04:42	07/17/17 17:18	4
Benzo[b]fluoranthene	**0.87**		0.029	0.012	mg/Kg	☼	07/15/17 04:42	07/17/17 17:18	4
Benzo[g,h,i]perylene	**0.83**		0.029	0.012	mg/Kg	☼	07/15/17 04:42	07/17/17 17:18	4
Benzo[k]fluoranthene	**0.34**		0.029	0.0099	mg/Kg	☼	07/15/17 04:42	07/17/17 17:18	4
Chrysene	**0.70**		0.029	0.011	mg/Kg	☼	07/15/17 04:42	07/17/17 17:18	4
Dibenz(a,h)anthracene	**0.21**		0.029	0.012	mg/Kg	☼	07/15/17 04:42	07/17/17 17:18	4
Dibenzofuran	**0.031**	**J**	0.14	0.011	mg/Kg	☼	07/15/17 04:42	07/17/17 17:18	4
1,4-Dioxane	ND		0.29	0.022	mg/Kg	☼	07/15/17 04:42	07/17/17 17:18	4
Fluoranthene	**1.3**		0.029	0.011	mg/Kg	☼	07/15/17 04:42	07/17/17 17:18	4
Fluorene	**0.027**	**J**	0.029	0.010	mg/Kg	☼	07/15/17 04:42	07/17/17 17:18	4
Hexachlorobenzene	ND		0.029	0.012	mg/Kg	☼	07/15/17 04:42	07/17/17 17:18	4
Indeno[1,2,3-cd]pyrene	**0.72**		0.029	0.011	mg/Kg	☼	07/15/17 04:42	07/17/17 17:18	4
2-Methylphenol	ND		0.14	0.013	mg/Kg	☼	07/15/17 04:42	07/17/17 17:18	4
Methylphenol, 3 & 4	ND		0.14	0.013	mg/Kg	☼	07/15/17 04:42	07/17/17 17:18	4
Naphthalene	**0.13**		0.029	0.010	mg/Kg	☼	07/15/17 04:42	07/17/17 17:18	4
Pentachlorophenol	ND		0.73	0.27	mg/Kg	☼	07/15/17 04:42	07/17/17 17:18	4
Phenanthrene	**0.61**		0.029	0.012	mg/Kg	☼	07/15/17 04:42	07/17/17 17:18	4
Phenol	ND		0.14	0.019	mg/Kg	☼	07/15/17 04:42	07/17/17 17:18	4
Pyrene	**1.0**		0.029	0.013	mg/Kg	☼	07/15/17 04:42	07/17/17 17:18	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*47*		*42 - 100*	*07/15/17 04:42*	*07/17/17 17:18*	*4*
2-Fluorophenol (Surr)	*36*		*21 - 107*	*07/15/17 04:42*	*07/17/17 17:18*	*4*
Nitrobenzene-d5 (Surr)	*47*		*35 - 109*	*07/15/17 04:42*	*07/17/17 17:18*	*4*
Phenol-d5 (Surr)	*37*		*29 - 105*	*07/15/17 04:42*	*07/17/17 17:18*	*4*
Terphenyl-d14 (Surr)	*44*		*36 - 113*	*07/15/17 04:42*	*07/17/17 17:18*	*4*
2,4,6-Tribromophenol (Surr)	*49*		*20 - 134*	*07/15/17 04:42*	*07/17/17 17:18*	*4*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.018	0.0093	mg/Kg	☼	07/15/17 04:45	07/15/17 22:33	1
PCB-1221	ND		0.018	0.0091	mg/Kg	☼	07/15/17 04:45	07/15/17 22:33	1
PCB-1232	ND		0.018	0.0069	mg/Kg	☼	07/15/17 04:45	07/15/17 22:33	1
PCB-1242	ND		0.018	0.014	mg/Kg	☼	07/15/17 04:45	07/15/17 22:33	1
PCB-1248	**0.55**		0.018	0.0084	mg/Kg	☼	07/15/17 04:45	07/15/17 22:33	1
PCB-1254	**0.39**		0.018	0.0077	mg/Kg	☼	07/15/17 04:45	07/15/17 22:33	1
PCB-1260	**0.12**		0.018	0.012	mg/Kg	☼	07/15/17 04:45	07/15/17 22:33	1
PCB-1262	ND		0.018	0.013	mg/Kg	☼	07/15/17 04:45	07/15/17 22:33	1
PCB-1268	ND		0.018	0.0053	mg/Kg	☼	07/15/17 04:45	07/15/17 22:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*73*		*23 - 150*	*07/15/17 04:45*	*07/15/17 22:33*	*1*
DCB Decachlorobiphenyl (Surr)	*77*		*23 - 150*	*07/15/17 04:45*	*07/15/17 22:33*	*1*
Tetrachloro-m-xylene (Surr)	*71*		*27 - 138*	*07/15/17 04:45*	*07/15/17 22:33*	*1*
Tetrachloro-m-xylene (Surr)	*73*		*27 - 138*	*07/15/17 04:45*	*07/15/17 22:33*	*1*

Client Sample ID: W4, S1, C 71217

Lab Sample ID: 180-68140-3
Date Collected: 07/12/17 08:45
Matrix: Solid
Date Received: 07/12/17 21:10
Percent Solids: 92.0

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	12		1.1	0.47	mg/Kg	☼	07/14/17 11:31	07/17/17 08:08	1
Barium	77		22	5.8	mg/Kg	☼	07/14/17 11:31	07/17/17 08:08	1
Beryllium	0.34	J	0.43	0.11	mg/Kg	☼	07/14/17 11:31	07/17/17 08:08	1
Cadmium	0.19	J	0.54	0.12	mg/Kg	☼	07/14/17 11:31	07/17/17 08:08	1
Chromium	9.9		0.54	0.14	mg/Kg	☼	07/14/17 11:31	07/17/17 08:08	1
Copper	26		2.7	0.83	mg/Kg	☼	07/14/17 11:31	07/17/17 08:08	1
Lead	34	F1	1.1	0.35	mg/Kg	☼	07/14/17 11:31	07/17/17 08:08	1
Manganese	550		1.6	0.44	mg/Kg	☼	07/14/17 11:31	07/17/17 08:08	1
Nickel	19		4.3	0.97	mg/Kg	☼	07/14/17 11:31	07/17/17 08:08	1
Selenium	ND		1.1	0.43	mg/Kg	☼	07/14/17 11:31	07/17/17 08:08	1
Silver	ND		0.54	0.18	mg/Kg	☼	07/14/17 11:31	07/17/17 08:08	1
Zinc	82		2.2	1.1	mg/Kg	☼	07/14/17 11:31	07/17/17 08:08	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.16	F1 F2	0.034	0.0075	mg/Kg	☼	07/18/17 14:49	07/19/17 11:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	8.0		0.1	0.1	%			07/14/17 13:15	1
Percent Solids	92.0		0.1	0.1	%			07/14/17 13:15	1
Cyanide, Total	ND		0.49	0.15	mg/Kg	☼	07/18/17 10:56	07/18/17 14:07	1

Client Sample ID: W4, S2, C 71217

Lab Sample ID: 180-68140-6
Date Collected: 07/12/17 09:25
Matrix: Solid
Date Received: 07/12/17 21:10
Percent Solids: 90.4

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.029	0.0099	mg/Kg	☼	07/15/17 04:42	07/17/17 17:46	4
Acenaphthylene	0.084		0.029	0.0099	mg/Kg	☼	07/15/17 04:42	07/17/17 17:46	4
Anthracene	0.089		0.029	0.011	mg/Kg	☼	07/15/17 04:42	07/17/17 17:46	4
Benzo[a]anthracene	0.28		0.029	0.012	mg/Kg	☼	07/15/17 04:42	07/17/17 17:46	4
Benzo[a]pyrene	0.31		0.029	0.012	mg/Kg	☼	07/15/17 04:42	07/17/17 17:46	4
Benzo[b]fluoranthene	0.40		0.029	0.013	mg/Kg	☼	07/15/17 04:42	07/17/17 17:46	4
Benzo[g,h,i]perylene	0.41		0.029	0.013	mg/Kg	☼	07/15/17 04:42	07/17/17 17:46	4
Benzo[k]fluoranthene	0.11		0.029	0.010	mg/Kg	☼	07/15/17 04:42	07/17/17 17:46	4
Chrysene	0.27		0.029	0.011	mg/Kg	☼	07/15/17 04:42	07/17/17 17:46	4
Dibenz(a,h)anthracene	0.086		0.029	0.012	mg/Kg	☼	07/15/17 04:42	07/17/17 17:46	4
Dibenzofuran	0.019	J	0.15	0.012	mg/Kg	☼	07/15/17 04:42	07/17/17 17:46	4
1,4-Dioxane	ND		0.29	0.022	mg/Kg	☼	07/15/17 04:42	07/17/17 17:46	4
Fluoranthene	0.43		0.029	0.012	mg/Kg	☼	07/15/17 04:42	07/17/17 17:46	4
Fluorene	0.012	J	0.029	0.010	mg/Kg	☼	07/15/17 04:42	07/17/17 17:46	4
Hexachlorobenzene	ND		0.029	0.012	mg/Kg	☼	07/15/17 04:42	07/17/17 17:46	4
Indeno[1,2,3-cd]pyrene	0.33		0.029	0.011	mg/Kg	☼	07/15/17 04:42	07/17/17 17:46	4
2-Methylphenol	ND		0.15	0.013	mg/Kg	☼	07/15/17 04:42	07/17/17 17:46	4
Methylphenol, 3 & 4	ND		0.15	0.013	mg/Kg	☼	07/15/17 04:42	07/17/17 17:46	4
Naphthalene	0.082		0.029	0.011	mg/Kg	☼	07/15/17 04:42	07/17/17 17:46	4
Pentachlorophenol	ND		0.75	0.28	mg/Kg	☼	07/15/17 04:42	07/17/17 17:46	4
Phenanthrene	0.17		0.029	0.012	mg/Kg	☼	07/15/17 04:42	07/17/17 17:46	4

Client Sample ID: W4, S2, C 71217 **Lab Sample ID: 180-68140-6**
Date Collected: 07/12/17 09:25 **Matrix: Solid**
Date Received: 07/12/17 21:10 **Percent Solids: 90.4**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		0.15	0.020	mg/Kg	☼	07/15/17 04:42	07/17/17 17:46	4
Pyrene	**0.37**		0.029	0.013	mg/Kg	☼	07/15/17 04:42	07/17/17 17:46	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*50*		*42 - 100*	*07/15/17 04:42*	*07/17/17 17:46*	*4*
2-Fluorophenol (Surr)	*43*		*21 - 107*	*07/15/17 04:42*	*07/17/17 17:46*	*4*
Nitrobenzene-d5 (Surr)	*50*		*35 - 109*	*07/15/17 04:42*	*07/17/17 17:46*	*4*
Phenol-d5 (Surr)	*40*		*29 - 105*	*07/15/17 04:42*	*07/17/17 17:46*	*4*
Terphenyl-d14 (Surr)	*47*		*36 - 113*	*07/15/17 04:42*	*07/17/17 17:46*	*4*
2,4,6-Tribromophenol (Surr)	*48*		*20 - 134*	*07/15/17 04:42*	*07/17/17 17:46*	*4*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.018	0.0097	mg/Kg	☼	07/15/17 04:45	07/15/17 22:55	1
PCB-1221	ND		0.018	0.0095	mg/Kg	☼	07/15/17 04:45	07/15/17 22:55	1
PCB-1232	ND		0.018	0.0073	mg/Kg	☼	07/15/17 04:45	07/15/17 22:55	1
PCB-1242	ND		0.018	0.015	mg/Kg	☼	07/15/17 04:45	07/15/17 22:55	1
PCB-1248	**0.60**		0.018	0.0087	mg/Kg	☼	07/15/17 04:45	07/15/17 22:55	1
PCB-1254	**0.43**		0.018	0.0080	mg/Kg	☼	07/15/17 04:45	07/15/17 22:55	1
PCB-1260	**0.12**		0.018	0.012	mg/Kg	☼	07/15/17 04:45	07/15/17 22:55	1
PCB-1262	ND		0.018	0.013	mg/Kg	☼	07/15/17 04:45	07/15/17 22:55	1
PCB-1268	ND		0.018	0.0056	mg/Kg	☼	07/15/17 04:45	07/15/17 22:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*73*		*23 - 150*	*07/15/17 04:45*	*07/15/17 22:55*	*1*
DCB Decachlorobiphenyl (Surr)	*82*		*23 - 150*	*07/15/17 04:45*	*07/15/17 22:55*	*1*
Tetrachloro-m-xylene (Surr)	*77*		*27 - 138*	*07/15/17 04:45*	*07/15/17 22:55*	*1*
Tetrachloro-m-xylene (Surr)	*79*		*27 - 138*	*07/15/17 04:45*	*07/15/17 22:55*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**6.6**		1.1	0.50	mg/Kg	☼	07/14/17 11:31	07/17/17 08:34	1
Barium	**86**		23	6.1	mg/Kg	☼	07/14/17 11:31	07/17/17 08:34	1
Beryllium	**0.34**	**J**	0.46	0.12	mg/Kg	☼	07/14/17 11:31	07/17/17 08:34	1
Cadmium	**0.18**	**J**	0.57	0.13	mg/Kg	☼	07/14/17 11:31	07/17/17 08:34	1
Chromium	**8.8**		0.57	0.15	mg/Kg	☼	07/14/17 11:31	07/17/17 08:34	1
Copper	**22**		2.9	0.88	mg/Kg	☼	07/14/17 11:31	07/17/17 08:34	1
Lead	**36**		1.1	0.37	mg/Kg	☼	07/14/17 11:31	07/17/17 08:34	1
Manganese	**460**		1.7	0.46	mg/Kg	☼	07/14/17 11:31	07/17/17 08:34	1
Nickel	**17**		4.6	1.0	mg/Kg	☼	07/14/17 11:31	07/17/17 08:34	1
Selenium	**1.2**		1.1	0.45	mg/Kg	☼	07/14/17 11:31	07/17/17 08:34	1
Silver	ND		0.57	0.19	mg/Kg	☼	07/14/17 11:31	07/17/17 08:34	1
Zinc	**64**		2.3	1.2	mg/Kg	☼	07/14/17 11:31	07/17/17 08:34	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.34**		0.038	0.0085	mg/Kg	☼	07/18/17 14:49	07/19/17 12:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.6**		0.1	0.1	%			07/14/17 13:15	1

Client Sample ID: W4, S2, C 71217 — Lab Sample ID: 180-68140-6

Date Collected: 07/12/17 09:25 — **Matrix: Solid**
Date Received: 07/12/17 21:10 — **Percent Solids: 90.4**

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	**90.4**		0.1	0.1	%			07/14/17 13:15	1
Cyanide, Total	ND		0.47	0.14	mg/Kg	☼	07/18/17 10:56	07/18/17 14:09	1

Client Sample ID: W4, S3, C 71217 — Lab Sample ID: 180-68140-9

Date Collected: 07/12/17 09:55 — **Matrix: Solid**
Date Received: 07/12/17 21:10 — **Percent Solids: 91.4**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.071	0.024	mg/Kg	☼	07/15/17 04:42	07/15/17 20:01	10
Acenaphthylene	**0.28**		0.071	0.024	mg/Kg	☼	07/15/17 04:42	07/15/17 20:01	10
Anthracene	**0.28**		0.071	0.026	mg/Kg	☼	07/15/17 04:42	07/15/17 20:01	10
Benzo[a]anthracene	**0.73**		0.071	0.028	mg/Kg	☼	07/15/17 04:42	07/15/17 20:01	10
Benzo[a]pyrene	**0.75**		0.071	0.029	mg/Kg	☼	07/15/17 04:42	07/15/17 20:01	10
Benzo[b]fluoranthene	**0.90**		0.071	0.031	mg/Kg	☼	07/15/17 04:42	07/15/17 20:01	10
Benzo[g,h,i]perylene	**0.82**		0.071	0.031	mg/Kg	☼	07/15/17 04:42	07/15/17 20:01	10
Benzo[k]fluoranthene	**0.32**		0.071	0.025	mg/Kg	☼	07/15/17 04:42	07/15/17 20:01	10
Chrysene	**0.67**		0.071	0.028	mg/Kg	☼	07/15/17 04:42	07/15/17 20:01	10
Dibenz(a,h)anthracene	**0.17**		0.071	0.029	mg/Kg	☼	07/15/17 04:42	07/15/17 20:01	10
Dibenzofuran	**0.052**	**J**	0.35	0.028	mg/Kg	☼	07/15/17 04:42	07/15/17 20:01	10
1,4-Dioxane	ND		0.71	0.054	mg/Kg	☼	07/15/17 04:42	07/15/17 20:01	10
Fluoranthene	**1.5**		0.071	0.028	mg/Kg	☼	07/15/17 04:42	07/15/17 20:01	10
Fluorene	**0.035**	**J**	0.071	0.025	mg/Kg	☼	07/15/17 04:42	07/15/17 20:01	10
Hexachlorobenzene	ND		0.071	0.029	mg/Kg	☼	07/15/17 04:42	07/15/17 20:01	10
Indeno[1,2,3-cd]pyrene	**0.68**		0.071	0.027	mg/Kg	☼	07/15/17 04:42	07/15/17 20:01	10
2-Methylphenol	ND		0.35	0.031	mg/Kg	☼	07/15/17 04:42	07/15/17 20:01	10
Methylphenol, 3 & 4	ND		0.35	0.031	mg/Kg	☼	07/15/17 04:42	07/15/17 20:01	10
Naphthalene	**0.14**		0.071	0.026	mg/Kg	☼	07/15/17 04:42	07/15/17 20:01	10
Pentachlorophenol	ND		1.8	0.67	mg/Kg	☼	07/15/17 04:42	07/15/17 20:01	10
Phenanthrene	**0.63**		0.071	0.030	mg/Kg	☼	07/15/17 04:42	07/15/17 20:01	10
Phenol	ND		0.35	0.048	mg/Kg	☼	07/15/17 04:42	07/15/17 20:01	10
Pyrene	**0.99**		0.071	0.032	mg/Kg	☼	07/15/17 04:42	07/15/17 20:01	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*66*		*42 - 100*	*07/15/17 04:42*	*07/15/17 20:01*	*10*
2-Fluorophenol (Surr)	*58*		*21 - 107*	*07/15/17 04:42*	*07/15/17 20:01*	*10*
Nitrobenzene-d5 (Surr)	*70*		*35 - 109*	*07/15/17 04:42*	*07/15/17 20:01*	*10*
Phenol-d5 (Surr)	*51*		*29 - 105*	*07/15/17 04:42*	*07/15/17 20:01*	*10*
Terphenyl-d14 (Surr)	*57*		*36 - 113*	*07/15/17 04:42*	*07/15/17 20:01*	*10*
2,4,6-Tribromophenol (Surr)	*36*		*20 - 134*	*07/15/17 04:42*	*07/15/17 20:01*	*10*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.018	0.0094	mg/Kg	☼	07/15/17 04:45	07/15/17 23:16	1
PCB-1221	ND		0.018	0.0092	mg/Kg	☼	07/15/17 04:45	07/15/17 23:16	1
PCB-1232	ND		0.018	0.0070	mg/Kg	☼	07/15/17 04:45	07/15/17 23:16	1
PCB-1242	ND		0.018	0.014	mg/Kg	☼	07/15/17 04:45	07/15/17 23:16	1
PCB-1248	**0.71**		0.018	0.0085	mg/Kg	☼	07/15/17 04:45	07/15/17 23:16	1
PCB-1254	**0.50**		0.018	0.0078	mg/Kg	☼	07/15/17 04:45	07/15/17 23:16	1
PCB-1260	**0.15**		0.018	0.012	mg/Kg	☼	07/15/17 04:45	07/15/17 23:16	1

Client Sample ID: W4, S3, C 71217 — Lab Sample ID: 180-68140-9

Date Collected: 07/12/17 09:55 — **Matrix: Solid**
Date Received: 07/12/17 21:10 — **Percent Solids: 91.4**

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1262	ND		0.018	0.013	mg/Kg	☼	07/15/17 04:45	07/15/17 23:16	1
PCB-1268	ND		0.018	0.0054	mg/Kg	☼	07/15/17 04:45	07/15/17 23:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*71*		*23 - 150*	*07/15/17 04:45*	*07/15/17 23:16*	*1*
DCB Decachlorobiphenyl (Surr)	*80*		*23 - 150*	*07/15/17 04:45*	*07/15/17 23:16*	*1*
Tetrachloro-m-xylene (Surr)	*77*		*27 - 138*	*07/15/17 04:45*	*07/15/17 23:16*	*1*
Tetrachloro-m-xylene (Surr)	*76*		*27 - 138*	*07/15/17 04:45*	*07/15/17 23:16*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**7.7**		1.1	0.48	mg/Kg	☼	07/14/17 11:31	07/17/17 08:39	1
Barium	**84**		22	5.9	mg/Kg	☼	07/14/17 11:31	07/17/17 08:39	1
Beryllium	**0.35**	**J**	0.44	0.11	mg/Kg	☼	07/14/17 11:31	07/17/17 08:39	1
Cadmium	**0.16**	**J**	0.55	0.12	mg/Kg	☼	07/14/17 11:31	07/17/17 08:39	1
Chromium	**8.9**		0.55	0.14	mg/Kg	☼	07/14/17 11:31	07/17/17 08:39	1
Copper	**24**		2.7	0.84	mg/Kg	☼	07/14/17 11:31	07/17/17 08:39	1
Lead	**35**		1.1	0.36	mg/Kg	☼	07/14/17 11:31	07/17/17 08:39	1
Manganese	**350**		1.6	0.44	mg/Kg	☼	07/14/17 11:31	07/17/17 08:39	1
Nickel	**18**		4.4	0.99	mg/Kg	☼	07/14/17 11:31	07/17/17 08:39	1
Selenium	**0.57**	**J**	1.1	0.43	mg/Kg	☼	07/14/17 11:31	07/17/17 08:39	1
Silver	ND		0.55	0.18	mg/Kg	☼	07/14/17 11:31	07/17/17 08:39	1
Zinc	**74**		2.2	1.1	mg/Kg	☼	07/14/17 11:31	07/17/17 08:39	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.34**		0.031	0.0069	mg/Kg	☼	07/18/17 14:49	07/19/17 12:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**8.6**		0.1	0.1	%			07/14/17 13:15	1
Percent Solids	**91.4**		0.1	0.1	%			07/14/17 13:15	1
Cyanide, Total	ND		0.47	0.14	mg/Kg	☼	07/18/17 10:56	07/18/17 14:11	1

Client Sample ID: W4, S4, C 71217 — Lab Sample ID: 180-68140-12

Date Collected: 07/12/17 10:25 — **Matrix: Solid**
Date Received: 07/12/17 21:10 — **Percent Solids: 89.9**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.072	0.024	mg/Kg	☼	07/15/17 04:42	07/15/17 20:28	10
Acenaphthylene	**0.45**		0.072	0.024	mg/Kg	☼	07/15/17 04:42	07/15/17 20:28	10
Anthracene	**0.51**		0.072	0.026	mg/Kg	☼	07/15/17 04:42	07/15/17 20:28	10
Benzo[a]anthracene	**1.1**		0.072	0.028	mg/Kg	☼	07/15/17 04:42	07/15/17 20:28	10
Benzo[a]pyrene	**1.1**		0.072	0.030	mg/Kg	☼	07/15/17 04:42	07/15/17 20:28	10
Benzo[b]fluoranthene	**1.2**		0.072	0.031	mg/Kg	☼	07/15/17 04:42	07/15/17 20:28	10
Benzo[g,h,i]perylene	**1.2**		0.072	0.031	mg/Kg	☼	07/15/17 04:42	07/15/17 20:28	10
Benzo[k]fluoranthene	**0.52**		0.072	0.025	mg/Kg	☼	07/15/17 04:42	07/15/17 20:28	10
Chrysene	**1.1**		0.072	0.028	mg/Kg	☼	07/15/17 04:42	07/15/17 20:28	10
Dibenz(a,h)anthracene	**0.22**		0.072	0.030	mg/Kg	☼	07/15/17 04:42	07/15/17 20:28	10
Dibenzofuran	**0.074**	**J**	0.36	0.029	mg/Kg	☼	07/15/17 04:42	07/15/17 20:28	10

Client Sample ID: W4, S4, C 71217 **Lab Sample ID: 180-68140-12**
Date Collected: 07/12/17 10:25 **Matrix: Solid**
Date Received: 07/12/17 21:10 **Percent Solids: 89.9**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.72	0.054	mg/Kg	☼	07/15/17 04:42	07/15/17 20:28	10
Fluoranthene	**2.4**		0.072	0.028	mg/Kg	☼	07/15/17 04:42	07/15/17 20:28	10
Fluorene	**0.076**		0.072	0.026	mg/Kg	☼	07/15/17 04:42	07/15/17 20:28	10
Hexachlorobenzene	ND		0.072	0.029	mg/Kg	☼	07/15/17 04:42	07/15/17 20:28	10
Indeno[1,2,3-cd]pyrene	**1.0**		0.072	0.028	mg/Kg	☼	07/15/17 04:42	07/15/17 20:28	10
2-Methylphenol	ND		0.36	0.032	mg/Kg	☼	07/15/17 04:42	07/15/17 20:28	10
Methylphenol, 3 & 4	ND		0.36	0.032	mg/Kg	☼	07/15/17 04:42	07/15/17 20:28	10
Naphthalene	**0.19**		0.072	0.026	mg/Kg	☼	07/15/17 04:42	07/15/17 20:28	10
Pentachlorophenol	ND		1.8	0.68	mg/Kg	☼	07/15/17 04:42	07/15/17 20:28	10
Phenanthrene	**1.1**		0.072	0.030	mg/Kg	☼	07/15/17 04:42	07/15/17 20:28	10
Phenol	ND		0.36	0.048	mg/Kg	☼	07/15/17 04:42	07/15/17 20:28	10
Pyrene	**1.5**		0.072	0.032	mg/Kg	☼	07/15/17 04:42	07/15/17 20:28	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*69*		*42 - 100*	*07/15/17 04:42*	*07/15/17 20:28*	*10*
2-Fluorophenol (Surr)	*60*		*21 - 107*	*07/15/17 04:42*	*07/15/17 20:28*	*10*
Nitrobenzene-d5 (Surr)	*74*		*35 - 109*	*07/15/17 04:42*	*07/15/17 20:28*	*10*
Phenol-d5 (Surr)	*51*		*29 - 105*	*07/15/17 04:42*	*07/15/17 20:28*	*10*
Terphenyl-d14 (Surr)	*61*		*36 - 113*	*07/15/17 04:42*	*07/15/17 20:28*	*10*
2,4,6-Tribromophenol (Surr)	*48*		*20 - 134*	*07/15/17 04:42*	*07/15/17 20:28*	*10*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.019	0.0098	mg/Kg	☼	07/15/17 04:45	07/15/17 23:38	1
PCB-1221	ND		0.019	0.0096	mg/Kg	☼	07/15/17 04:45	07/15/17 23:38	1
PCB-1232	ND		0.019	0.0073	mg/Kg	☼	07/15/17 04:45	07/15/17 23:38	1
PCB-1242	ND		0.019	0.015	mg/Kg	☼	07/15/17 04:45	07/15/17 23:38	1
PCB-1248	**0.72**		0.019	0.0088	mg/Kg	☼	07/15/17 04:45	07/15/17 23:38	1
PCB-1254	**0.51**		0.019	0.0081	mg/Kg	☼	07/15/17 04:45	07/15/17 23:38	1
PCB-1260	**0.15**		0.019	0.012	mg/Kg	☼	07/15/17 04:45	07/15/17 23:38	1
PCB-1262	ND		0.019	0.013	mg/Kg	☼	07/15/17 04:45	07/15/17 23:38	1
PCB-1268	ND		0.019	0.0056	mg/Kg	☼	07/15/17 04:45	07/15/17 23:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*81*		*23 - 150*	*07/15/17 04:45*	*07/15/17 23:38*	*1*
DCB Decachlorobiphenyl (Surr)	*90*		*23 - 150*	*07/15/17 04:45*	*07/15/17 23:38*	*1*
Tetrachloro-m-xylene (Surr)	*80*		*27 - 138*	*07/15/17 04:45*	*07/15/17 23:38*	*1*
Tetrachloro-m-xylene (Surr)	*82*		*27 - 138*	*07/15/17 04:45*	*07/15/17 23:38*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**8.0**		1.1	0.49	mg/Kg	☼	07/14/17 11:31	07/17/17 08:44	1
Barium	**90**		22	6.0	mg/Kg	☼	07/14/17 11:31	07/17/17 08:44	1
Beryllium	**0.40**	**J**	0.44	0.12	mg/Kg	☼	07/14/17 11:31	07/17/17 08:44	1
Cadmium	**0.19**	**J**	0.56	0.12	mg/Kg	☼	07/14/17 11:31	07/17/17 08:44	1
Chromium	**10**		0.56	0.14	mg/Kg	☼	07/14/17 11:31	07/17/17 08:44	1
Copper	**26**		2.8	0.85	mg/Kg	☼	07/14/17 11:31	07/17/17 08:44	1
Lead	**40**		1.1	0.36	mg/Kg	☼	07/14/17 11:31	07/17/17 08:44	1
Manganese	**650**		1.7	0.45	mg/Kg	☼	07/14/17 11:31	07/17/17 08:44	1
Nickel	**19**		4.4	1.0	mg/Kg	☼	07/14/17 11:31	07/17/17 08:44	1

Client Sample ID: W4, S4, C 71217

Lab Sample ID: 180-68140-12
Date Collected: 07/12/17 10:25
Matrix: Solid
Date Received: 07/12/17 21:10
Percent Solids: 89.9

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND		1.1	0.44	mg/Kg	☼	07/14/17 11:31	07/17/17 08:44	1
Silver	ND		0.56	0.18	mg/Kg	☼	07/14/17 11:31	07/17/17 08:44	1
Zinc	**90**		2.2	1.1	mg/Kg	☼	07/14/17 11:31	07/17/17 08:44	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.24**		0.037	0.0084	mg/Kg	☼	07/18/17 14:49	07/19/17 12:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**10.1**		0.1	0.1	%			07/14/17 13:15	1
Percent Solids	**89.9**		0.1	0.1	%			07/14/17 13:15	1
Cyanide, Total	ND		0.50	0.15	mg/Kg	☼	07/18/17 10:56	07/18/17 14:12	1

Client Sample ID: W4, S5, C 71217

Lab Sample ID: 180-68140-15
Date Collected: 07/12/17 11:55
Matrix: Solid
Date Received: 07/12/17 21:10
Percent Solids: 90.7

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.020**	**J**	0.030	0.0099	mg/Kg	☼	07/15/17 04:42	07/15/17 20:56	4
Acenaphthylene	**0.48**		0.030	0.010	mg/Kg	☼	07/15/17 04:42	07/15/17 20:56	4
Anthracene	**0.42**		0.030	0.011	mg/Kg	☼	07/15/17 04:42	07/15/17 20:56	4
Benzo[a]anthracene	**1.2**		0.030	0.012	mg/Kg	☼	07/15/17 04:42	07/15/17 20:56	4
Benzo[a]pyrene	**1.2**		0.030	0.012	mg/Kg	☼	07/15/17 04:42	07/15/17 20:56	4
Benzo[b]fluoranthene	**1.4**		0.030	0.013	mg/Kg	☼	07/15/17 04:42	07/15/17 20:56	4
Benzo[g,h,i]perylene	**1.4**		0.030	0.013	mg/Kg	☼	07/15/17 04:42	07/15/17 20:56	4
Benzo[k]fluoranthene	**0.56**		0.030	0.010	mg/Kg	☼	07/15/17 04:42	07/15/17 20:56	4
Chrysene	**1.1**		0.030	0.011	mg/Kg	☼	07/15/17 04:42	07/15/17 20:56	4
Dibenz(a,h)anthracene	**0.30**		0.030	0.012	mg/Kg	☼	07/15/17 04:42	07/15/17 20:56	4
Dibenzofuran	**0.066**	**J**	0.15	0.012	mg/Kg	☼	07/15/17 04:42	07/15/17 20:56	4
1,4-Dioxane	ND		0.29	0.022	mg/Kg	☼	07/15/17 04:42	07/15/17 20:56	4
Fluoranthene	**2.7**		0.030	0.012	mg/Kg	☼	07/15/17 04:42	07/15/17 20:56	4
Fluorene	**0.060**		0.030	0.010	mg/Kg	☼	07/15/17 04:42	07/15/17 20:56	4
Hexachlorobenzene	ND		0.030	0.012	mg/Kg	☼	07/15/17 04:42	07/15/17 20:56	4
Indeno[1,2,3-cd]pyrene	**1.1**		0.030	0.011	mg/Kg	☼	07/15/17 04:42	07/15/17 20:56	4
2-Methylphenol	ND		0.15	0.013	mg/Kg	☼	07/15/17 04:42	07/15/17 20:56	4
Methylphenol, 3 & 4	ND		0.15	0.013	mg/Kg	☼	07/15/17 04:42	07/15/17 20:56	4
Naphthalene	**0.22**		0.030	0.011	mg/Kg	☼	07/15/17 04:42	07/15/17 20:56	4
Pentachlorophenol	ND		0.75	0.28	mg/Kg	☼	07/15/17 04:42	07/15/17 20:56	4
Phenanthrene	**0.95**		0.030	0.012	mg/Kg	☼	07/15/17 04:42	07/15/17 20:56	4
Phenol	ND		0.15	0.020	mg/Kg	☼	07/15/17 04:42	07/15/17 20:56	4
Pyrene	**1.8**		0.030	0.013	mg/Kg	☼	07/15/17 04:42	07/15/17 20:56	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*65*		*42 - 100*	*07/15/17 04:42*	*07/15/17 20:56*	*4*
2-Fluorophenol (Surr)	*53*		*21 - 107*	*07/15/17 04:42*	*07/15/17 20:56*	*4*
Nitrobenzene-d5 (Surr)	*63*		*35 - 109*	*07/15/17 04:42*	*07/15/17 20:56*	*4*
Phenol-d5 (Surr)	*47*		*29 - 105*	*07/15/17 04:42*	*07/15/17 20:56*	*4*
Terphenyl-d14 (Surr)	*58*		*36 - 113*	*07/15/17 04:42*	*07/15/17 20:56*	*4*

Client Sample ID: W4, S5, C 71217 **Lab Sample ID: 180-68140-15**
Date Collected: 07/12/17 11:55 **Matrix: Solid**
Date Received: 07/12/17 21:10 **Percent Solids: 90.7**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	*53*		*20 - 134*	*07/15/17 04:42*	*07/15/17 20:56*	*4*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.018	0.0096	mg/Kg	☼	07/15/17 04:45	07/15/17 23:58	1
PCB-1221	ND		0.018	0.0093	mg/Kg	☼	07/15/17 04:45	07/15/17 23:58	1
PCB-1232	ND		0.018	0.0071	mg/Kg	☼	07/15/17 04:45	07/15/17 23:58	1
PCB-1242	ND		0.018	0.014	mg/Kg	☼	07/15/17 04:45	07/15/17 23:58	1
PCB-1248	**0.61**		0.018	0.0086	mg/Kg	☼	07/15/17 04:45	07/15/17 23:58	1
PCB-1254	**0.41**		0.018	0.0079	mg/Kg	☼	07/15/17 04:45	07/15/17 23:58	1
PCB-1260	**0.12**		0.018	0.012	mg/Kg	☼	07/15/17 04:45	07/15/17 23:58	1
PCB-1262	ND		0.018	0.013	mg/Kg	☼	07/15/17 04:45	07/15/17 23:58	1
PCB-1268	ND		0.018	0.0055	mg/Kg	☼	07/15/17 04:45	07/15/17 23:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	*77*		*23 - 150*	*07/15/17 04:45*	*07/15/17 23:58*	*1*
DCB Decachlorobiphenyl (Surr)	*88*		*23 - 150*	*07/15/17 04:45*	*07/15/17 23:58*	*1*
Tetrachloro-m-xylene (Surr)	*82*		*27 - 138*	*07/15/17 04:45*	*07/15/17 23:58*	*1*
Tetrachloro-m-xylene (Surr)	*81*		*27 - 138*	*07/15/17 04:45*	*07/15/17 23:58*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**7.0**		1.1	0.47	mg/Kg	☼	07/14/17 11:31	07/17/17 08:59	1
Barium	**73**		21	5.7	mg/Kg	☼	07/14/17 11:31	07/17/17 08:59	1
Beryllium	**0.36**	**J**	0.43	0.11	mg/Kg	☼	07/14/17 11:31	07/17/17 08:59	1
Cadmium	**0.16**	**J**	0.54	0.12	mg/Kg	☼	07/14/17 11:31	07/17/17 08:59	1
Chromium	**9.5**		0.54	0.14	mg/Kg	☼	07/14/17 11:31	07/17/17 08:59	1
Copper	**26**		2.7	0.82	mg/Kg	☼	07/14/17 11:31	07/17/17 08:59	1
Lead	**33**		1.1	0.35	mg/Kg	☼	07/14/17 11:31	07/17/17 08:59	1
Manganese	**370**		1.6	0.43	mg/Kg	☼	07/14/17 11:31	07/17/17 08:59	1
Nickel	**17**		4.3	0.96	mg/Kg	☼	07/14/17 11:31	07/17/17 08:59	1
Selenium	**0.53**	**J**	1.1	0.42	mg/Kg	☼	07/14/17 11:31	07/17/17 08:59	1
Silver	ND		0.54	0.18	mg/Kg	☼	07/14/17 11:31	07/17/17 08:59	1
Zinc	**68**		2.1	1.1	mg/Kg	☼	07/14/17 11:31	07/17/17 08:59	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.18**		0.036	0.0080	mg/Kg	☼	07/18/17 14:49	07/19/17 12:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.3**		0.1	0.1	%			07/14/17 13:15	1
Percent Solids	**90.7**		0.1	0.1	%			07/14/17 13:15	1
Cyanide, Total	ND		0.50	0.15	mg/Kg	☼	07/18/17 10:56	07/18/17 14:14	1

Client Sample ID: W5, S5, A 71217 — Lab Sample ID: 180-68140-16

Date Collected: 07/12/17 12:25 — **Matrix: Solid**
Date Received: 07/12/17 21:10 — **Percent Solids: 90.3**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.019	0.0029	mg/Kg	☼	07/16/17 09:00	07/16/17 15:44	1
Benzene	ND		0.0046	0.0018	mg/Kg	☼	07/16/17 09:00	07/16/17 15:44	1
2-Butanone (MEK)	ND		0.0046	0.0027	mg/Kg	☼	07/16/17 09:00	07/16/17 15:44	1
Carbon tetrachloride	ND		0.0046	0.0031	mg/Kg	☼	07/16/17 09:00	07/16/17 15:44	1
Chlorobenzene	ND		0.0046	0.0015	mg/Kg	☼	07/16/17 09:00	07/16/17 15:44	1
Chloroform	ND		0.0046	0.0020	mg/Kg	☼	07/16/17 09:00	07/16/17 15:44	1
cis-1,2-Dichloroethene	ND		0.0046	0.0015	mg/Kg	☼	07/16/17 09:00	07/16/17 15:44	1
1,2-Dichlorobenzene	ND		0.0046	0.0037	mg/Kg	☼	07/16/17 09:00	07/16/17 15:44	1
1,3-Dichlorobenzene	ND		0.0046	0.0015	mg/Kg	☼	07/16/17 09:00	07/16/17 15:44	1
1,4-Dichlorobenzene	ND		0.0046	0.00094	mg/Kg	☼	07/16/17 09:00	07/16/17 15:44	1
1,1-Dichloroethane	ND		0.0046	0.0017	mg/Kg	☼	07/16/17 09:00	07/16/17 15:44	1
1,2-Dichloroethane	ND		0.0046	0.0013	mg/Kg	☼	07/16/17 09:00	07/16/17 15:44	1
1,1-Dichloroethene	ND		0.0046	0.0026	mg/Kg	☼	07/16/17 09:00	07/16/17 15:44	1
Ethylbenzene	ND		0.0046	0.0020	mg/Kg	☼	07/16/17 09:00	07/16/17 15:44	1
Methylene Chloride	ND		0.0046	0.0022	mg/Kg	☼	07/16/17 09:00	07/16/17 15:44	1
Methyl tert-butyl ether	ND		0.0046	0.0034	mg/Kg	☼	07/16/17 09:00	07/16/17 15:44	1
n-Butylbenzene	ND		0.0046	0.0035	mg/Kg	☼	07/16/17 09:00	07/16/17 15:44	1
N-Propylbenzene	ND		0.0046	0.0020	mg/Kg	☼	07/16/17 09:00	07/16/17 15:44	1
sec-Butylbenzene	ND		0.0046	0.0023	mg/Kg	☼	07/16/17 09:00	07/16/17 15:44	1
tert-Butylbenzene	ND		0.0046	0.0017	mg/Kg	☼	07/16/17 09:00	07/16/17 15:44	1
Tetrachloroethene	ND		0.0046	0.0019	mg/Kg	☼	07/16/17 09:00	07/16/17 15:44	1
Toluene	ND		0.0046	0.0016	mg/Kg	☼	07/16/17 09:00	07/16/17 15:44	1
trans-1,2-Dichloroethene	ND		0.0046	0.0023	mg/Kg	☼	07/16/17 09:00	07/16/17 15:44	1
1,1,1-Trichloroethane	ND		0.0046	0.0023	mg/Kg	☼	07/16/17 09:00	07/16/17 15:44	1
Trichloroethene	ND		0.0046	0.0014	mg/Kg	☼	07/16/17 09:00	07/16/17 15:44	1
1,2,4-Trimethylbenzene	ND		0.0046	0.0012	mg/Kg	☼	07/16/17 09:00	07/16/17 15:44	1
1,3,5-Trimethylbenzene	ND		0.0046	0.0016	mg/Kg	☼	07/16/17 09:00	07/16/17 15:44	1
Vinyl chloride	ND		0.0046	0.0034	mg/Kg	☼	07/16/17 09:00	07/16/17 15:44	1
Xylenes, Total	ND		0.0093	0.0040	mg/Kg	☼	07/16/17 09:00	07/16/17 15:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*63 - 120*	*07/16/17 09:00*	*07/16/17 15:44*	*1*
Dibromofluoromethane (Surr)	*92*		*68 - 121*	*07/16/17 09:00*	*07/16/17 15:44*	*1*
1,2-Dichloroethane-d4 (Surr)	*83*		*52 - 124*	*07/16/17 09:00*	*07/16/17 15:44*	*1*
Toluene-d8 (Surr)	*122*		*72 - 127*	*07/16/17 09:00*	*07/16/17 15:44*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.7**		0.1	0.1	%			07/14/17 13:15	1
Percent Solids	**90.3**		0.1	0.1	%			07/14/17 13:15	1

Client Sample ID: W5, S5, B 71217 — Lab Sample ID: 180-68140-17

Date Collected: 07/12/17 12:30 — **Matrix: Solid**
Date Received: 07/12/17 21:10 — **Percent Solids: 86.1**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.020	0.0031	mg/Kg	☼	07/17/17 05:28	07/17/17 12:23	1
Benzene	ND		0.0049	0.0019	mg/Kg	☼	07/17/17 05:28	07/17/17 12:23	1
2-Butanone (MEK)	ND		0.0049	0.0028	mg/Kg	☼	07/17/17 05:28	07/17/17 12:23	1

Client Sample ID: W5, S5, B 71217 — Lab Sample ID: 180-68140-17

Date Collected: 07/12/17 12:30 — **Matrix: Solid**
Date Received: 07/12/17 21:10 — **Percent Solids: 86.1**

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	ND		0.0049	0.0033	mg/Kg	☼	07/17/17 05:28	07/17/17 12:23	1
Chlorobenzene	ND		0.0049	0.0015	mg/Kg	☼	07/17/17 05:28	07/17/17 12:23	1
Chloroform	ND		0.0049	0.0021	mg/Kg	☼	07/17/17 05:28	07/17/17 12:23	1
cis-1,2-Dichloroethene	ND		0.0049	0.0015	mg/Kg	☼	07/17/17 05:28	07/17/17 12:23	1
1,2-Dichlorobenzene	ND		0.0049	0.0040	mg/Kg	☼	07/17/17 05:28	07/17/17 12:23	1
1,3-Dichlorobenzene	ND		0.0049	0.0016	mg/Kg	☼	07/17/17 05:28	07/17/17 12:23	1
1,4-Dichlorobenzene	ND		0.0049	0.0010	mg/Kg	☼	07/17/17 05:28	07/17/17 12:23	1
1,1-Dichloroethane	ND		0.0049	0.0018	mg/Kg	☼	07/17/17 05:28	07/17/17 12:23	1
1,2-Dichloroethane	ND		0.0049	0.0014	mg/Kg	☼	07/17/17 05:28	07/17/17 12:23	1
1,1-Dichloroethene	ND		0.0049	0.0028	mg/Kg	☼	07/17/17 05:28	07/17/17 12:23	1
Ethylbenzene	ND		0.0049	0.0021	mg/Kg	☼	07/17/17 05:28	07/17/17 12:23	1
Methylene Chloride	ND		0.0049	0.0023	mg/Kg	☼	07/17/17 05:28	07/17/17 12:23	1
Methyl tert-butyl ether	ND		0.0049	0.0036	mg/Kg	☼	07/17/17 05:28	07/17/17 12:23	1
n-Butylbenzene	ND		0.0049	0.0037	mg/Kg	☼	07/17/17 05:28	07/17/17 12:23	1
N-Propylbenzene	ND		0.0049	0.0021	mg/Kg	☼	07/17/17 05:28	07/17/17 12:23	1
sec-Butylbenzene	ND		0.0049	0.0024	mg/Kg	☼	07/17/17 05:28	07/17/17 12:23	1
tert-Butylbenzene	ND		0.0049	0.0018	mg/Kg	☼	07/17/17 05:28	07/17/17 12:23	1
Tetrachloroethene	ND		0.0049	0.0020	mg/Kg	☼	07/17/17 05:28	07/17/17 12:23	1
Toluene	ND		0.0049	0.0017	mg/Kg	☼	07/17/17 05:28	07/17/17 12:23	1
trans-1,2-Dichloroethene	ND		0.0049	0.0025	mg/Kg	☼	07/17/17 05:28	07/17/17 12:23	1
1,1,1-Trichloroethane	ND		0.0049	0.0025	mg/Kg	☼	07/17/17 05:28	07/17/17 12:23	1
Trichloroethene	ND		0.0049	0.0015	mg/Kg	☼	07/17/17 05:28	07/17/17 12:23	1
1,2,4-Trimethylbenzene	ND		0.0049	0.0013	mg/Kg	☼	07/17/17 05:28	07/17/17 12:23	1
1,3,5-Trimethylbenzene	ND		0.0049	0.0017	mg/Kg	☼	07/17/17 05:28	07/17/17 12:23	1
Vinyl chloride	ND		0.0049	0.0036	mg/Kg	☼	07/17/17 05:28	07/17/17 12:23	1
Xylenes, Total	ND		0.0098	0.0042	mg/Kg	☼	07/17/17 05:28	07/17/17 12:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*63 - 120*	*07/17/17 05:28*	*07/17/17 12:23*	*1*
Dibromofluoromethane (Surr)	*91*		*68 - 121*	*07/17/17 05:28*	*07/17/17 12:23*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*52 - 124*	*07/17/17 05:28*	*07/17/17 12:23*	*1*
Toluene-d8 (Surr)	*103*		*72 - 127*	*07/17/17 05:28*	*07/17/17 12:23*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**13.9**		0.1	0.1	%			07/14/17 13:15	1
Percent Solids	**86.1**		0.1	0.1	%			07/14/17 13:15	1

Client Sample ID: W5, S5, C 71217 — Lab Sample ID: 180-68140-18

Date Collected: 07/12/17 12:35 — **Matrix: Solid**
Date Received: 07/12/17 21:10 — **Percent Solids: 90.6**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.022	0.0073	mg/Kg	☼	07/15/17 04:42	07/17/17 18:13	3
Acenaphthylene	**0.067**		0.022	0.0073	mg/Kg	☼	07/15/17 04:42	07/17/17 18:13	3
Anthracene	**0.084**		0.022	0.0080	mg/Kg	☼	07/15/17 04:42	07/17/17 18:13	3
Benzo[a]anthracene	**0.27**		0.022	0.0086	mg/Kg	☼	07/15/17 04:42	07/17/17 18:13	3
Benzo[a]pyrene	**0.27**		0.022	0.0090	mg/Kg	☼	07/15/17 04:42	07/17/17 18:13	3
Benzo[b]fluoranthene	**0.32**		0.022	0.0094	mg/Kg	☼	07/15/17 04:42	07/17/17 18:13	3

Client Sample ID: W5, S5, C 71217 **Lab Sample ID: 180-68140-18**
Date Collected: 07/12/17 12:35 **Matrix: Solid**
Date Received: 07/12/17 21:10 **Percent Solids: 90.6**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	**0.28**		0.022	0.0094	mg/Kg	☼	07/15/17 04:42	07/17/17 18:13	3
Benzo[k]fluoranthene	**0.12**		0.022	0.0075	mg/Kg	☼	07/15/17 04:42	07/17/17 18:13	3
Chrysene	**0.27**		0.022	0.0085	mg/Kg	☼	07/15/17 04:42	07/17/17 18:13	3
Dibenz(a,h)anthracene	**0.067**		0.022	0.0090	mg/Kg	☼	07/15/17 04:42	07/17/17 18:13	3
Dibenzofuran	**0.039**	**J**	0.11	0.0087	mg/Kg	☼	07/15/17 04:42	07/17/17 18:13	3
1,4-Dioxane	ND		0.22	0.016	mg/Kg	☼	07/15/17 04:42	07/17/17 18:13	3
Fluoranthene	**0.41**		0.022	0.0085	mg/Kg	☼	07/15/17 04:42	07/17/17 18:13	3
Fluorene	**0.0087**	**J**	0.022	0.0077	mg/Kg	☼	07/15/17 04:42	07/17/17 18:13	3
Hexachlorobenzene	ND		0.022	0.0087	mg/Kg	☼	07/15/17 04:42	07/17/17 18:13	3
Indeno[1,2,3-cd]pyrene	**0.24**		0.022	0.0084	mg/Kg	☼	07/15/17 04:42	07/17/17 18:13	3
2-Methylphenol	ND		0.11	0.0096	mg/Kg	☼	07/15/17 04:42	07/17/17 18:13	3
Methylphenol, 3 & 4	ND		0.11	0.0096	mg/Kg	☼	07/15/17 04:42	07/17/17 18:13	3
Naphthalene	**0.39**		0.022	0.0078	mg/Kg	☼	07/15/17 04:42	07/17/17 18:13	3
Pentachlorophenol	ND		0.55	0.20	mg/Kg	☼	07/15/17 04:42	07/17/17 18:13	3
Phenanthrene	**0.18**		0.022	0.0090	mg/Kg	☼	07/15/17 04:42	07/17/17 18:13	3
Phenol	ND		0.11	0.015	mg/Kg	☼	07/15/17 04:42	07/17/17 18:13	3
Pyrene	**0.35**		0.022	0.0096	mg/Kg	☼	07/15/17 04:42	07/17/17 18:13	3

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*52*		*42 - 100*	*07/15/17 04:42*	*07/17/17 18:13*	*3*
2-Fluorophenol (Surr)	*44*		*21 - 107*	*07/15/17 04:42*	*07/17/17 18:13*	*3*
Nitrobenzene-d5 (Surr)	*53*		*35 - 109*	*07/15/17 04:42*	*07/17/17 18:13*	*3*
Phenol-d5 (Surr)	*42*		*29 - 105*	*07/15/17 04:42*	*07/17/17 18:13*	*3*
Terphenyl-d14 (Surr)	*48*		*36 - 113*	*07/15/17 04:42*	*07/17/17 18:13*	*3*
2,4,6-Tribromophenol (Surr)	*47*		*20 - 134*	*07/15/17 04:42*	*07/17/17 18:13*	*3*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.018	0.0096	mg/Kg	☼	07/15/17 04:45	07/16/17 00:20	1
PCB-1221	ND		0.018	0.0094	mg/Kg	☼	07/15/17 04:45	07/16/17 00:20	1
PCB-1232	ND		0.018	0.0072	mg/Kg	☼	07/15/17 04:45	07/16/17 00:20	1
PCB-1242	ND		0.018	0.014	mg/Kg	☼	07/15/17 04:45	07/16/17 00:20	1
PCB-1248	**0.68**		0.018	0.0087	mg/Kg	☼	07/15/17 04:45	07/16/17 00:20	1
PCB-1254	**0.46**		0.018	0.0080	mg/Kg	☼	07/15/17 04:45	07/16/17 00:20	1
PCB-1260	**0.14**		0.018	0.012	mg/Kg	☼	07/15/17 04:45	07/16/17 00:20	1
PCB-1262	ND		0.018	0.013	mg/Kg	☼	07/15/17 04:45	07/16/17 00:20	1
PCB-1268	ND		0.018	0.0055	mg/Kg	☼	07/15/17 04:45	07/16/17 00:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*72*		*23 - 150*	*07/15/17 04:45*	*07/16/17 00:20*	*1*
DCB Decachlorobiphenyl (Surr)	*80*		*23 - 150*	*07/15/17 04:45*	*07/16/17 00:20*	*1*
Tetrachloro-m-xylene (Surr)	*73*		*27 - 138*	*07/15/17 04:45*	*07/16/17 00:20*	*1*
Tetrachloro-m-xylene (Surr)	*73*		*27 - 138*	*07/15/17 04:45*	*07/16/17 00:20*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**10**		1.2	0.52	mg/Kg	☼	07/14/17 11:31	07/17/17 09:04	1
Barium	**100**		23	6.3	mg/Kg	☼	07/14/17 11:31	07/17/17 09:04	1
Beryllium	**0.57**		0.47	0.12	mg/Kg	☼	07/14/17 11:31	07/17/17 09:04	1
Cadmium	**0.22**	**J**	0.59	0.13	mg/Kg	☼	07/14/17 11:31	07/17/17 09:04	1

Client Sample ID: W5, S5, C 71217

Lab Sample ID: 180-68140-18

Date Collected: 07/12/17 12:35
Matrix: Solid
Date Received: 07/12/17 21:10
Percent Solids: 90.6

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	**14**		0.59	0.15	mg/Kg	☼	07/14/17 11:31	07/17/17 09:04	1
Copper	**28**		2.9	0.90	mg/Kg	☼	07/14/17 11:31	07/17/17 09:04	1
Lead	**40**		1.2	0.39	mg/Kg	☼	07/14/17 11:31	07/17/17 09:04	1
Manganese	**570**		1.8	0.48	mg/Kg	☼	07/14/17 11:31	07/17/17 09:04	1
Nickel	**27**		4.7	1.1	mg/Kg	☼	07/14/17 11:31	07/17/17 09:04	1
Selenium	ND		1.2	0.47	mg/Kg	☼	07/14/17 11:31	07/17/17 09:04	1
Silver	ND		0.59	0.19	mg/Kg	☼	07/14/17 11:31	07/17/17 09:04	1
Zinc	**89**		2.3	1.2	mg/Kg	☼	07/14/17 11:31	07/17/17 09:04	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.20**		0.036	0.0080	mg/Kg	☼	07/18/17 14:49	07/19/17 12:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.4**		0.1	0.1	%			07/14/17 13:15	1
Percent Solids	**90.6**		0.1	0.1	%			07/14/17 13:15	1
Cyanide, Total	ND		0.48	0.15	mg/Kg	☼	07/18/17 10:56	07/18/17 14:16	1

Client Sample ID: W5, S4, A 71217

Lab Sample ID: 180-68140-19

Date Collected: 07/12/17 12:45
Matrix: Solid
Date Received: 07/12/17 21:10
Percent Solids: 92.7

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.020	0.0032	mg/Kg	☼	07/17/17 05:28	07/17/17 12:01	1
Benzene	ND		0.0051	0.0020	mg/Kg	☼	07/17/17 05:28	07/17/17 12:01	1
2-Butanone (MEK)	ND		0.0051	0.0029	mg/Kg	☼	07/17/17 05:28	07/17/17 12:01	1
Carbon tetrachloride	ND		0.0051	0.0034	mg/Kg	☼	07/17/17 05:28	07/17/17 12:01	1
Chlorobenzene	ND		0.0051	0.0016	mg/Kg	☼	07/17/17 05:28	07/17/17 12:01	1
Chloroform	ND		0.0051	0.0021	mg/Kg	☼	07/17/17 05:28	07/17/17 12:01	1
cis-1,2-Dichloroethene	ND		0.0051	0.0016	mg/Kg	☼	07/17/17 05:28	07/17/17 12:01	1
1,2-Dichlorobenzene	ND		0.0051	0.0041	mg/Kg	☼	07/17/17 05:28	07/17/17 12:01	1
1,3-Dichlorobenzene	ND		0.0051	0.0016	mg/Kg	☼	07/17/17 05:28	07/17/17 12:01	1
1,4-Dichlorobenzene	ND		0.0051	0.0010	mg/Kg	☼	07/17/17 05:28	07/17/17 12:01	1
1,1-Dichloroethane	ND		0.0051	0.0018	mg/Kg	☼	07/17/17 05:28	07/17/17 12:01	1
1,2-Dichloroethane	ND		0.0051	0.0015	mg/Kg	☼	07/17/17 05:28	07/17/17 12:01	1
1,1-Dichloroethene	ND		0.0051	0.0029	mg/Kg	☼	07/17/17 05:28	07/17/17 12:01	1
Ethylbenzene	ND		0.0051	0.0022	mg/Kg	☼	07/17/17 05:28	07/17/17 12:01	1
Methylene Chloride	ND		0.0051	0.0024	mg/Kg	☼	07/17/17 05:28	07/17/17 12:01	1
Methyl tert-butyl ether	ND		0.0051	0.0037	mg/Kg	☼	07/17/17 05:28	07/17/17 12:01	1
n-Butylbenzene	ND		0.0051	0.0038	mg/Kg	☼	07/17/17 05:28	07/17/17 12:01	1
N-Propylbenzene	ND		0.0051	0.0021	mg/Kg	☼	07/17/17 05:28	07/17/17 12:01	1
sec-Butylbenzene	ND		0.0051	0.0025	mg/Kg	☼	07/17/17 05:28	07/17/17 12:01	1
tert-Butylbenzene	ND		0.0051	0.0019	mg/Kg	☼	07/17/17 05:28	07/17/17 12:01	1
Tetrachloroethene	ND		0.0051	0.0020	mg/Kg	☼	07/17/17 05:28	07/17/17 12:01	1
Toluene	ND		0.0051	0.0017	mg/Kg	☼	07/17/17 05:28	07/17/17 12:01	1
trans-1,2-Dichloroethene	ND		0.0051	0.0026	mg/Kg	☼	07/17/17 05:28	07/17/17 12:01	1
1,1,1-Trichloroethane	ND		0.0051	0.0025	mg/Kg	☼	07/17/17 05:28	07/17/17 12:01	1
Trichloroethene	ND		0.0051	0.0015	mg/Kg	☼	07/17/17 05:28	07/17/17 12:01	1

Client Sample ID: W5, S4, A 71217 — Lab Sample ID: 180-68140-19

Date Collected: 07/12/17 12:45 — **Matrix: Solid**
Date Received: 07/12/17 21:10 — **Percent Solids: 92.7**

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	ND		0.0051	0.0014	mg/Kg	☼	07/17/17 05:28	07/17/17 12:01	1
1,3,5-Trimethylbenzene	ND		0.0051	0.0017	mg/Kg	☼	07/17/17 05:28	07/17/17 12:01	1
Vinyl chloride	ND		0.0051	0.0037	mg/Kg	☼	07/17/17 05:28	07/17/17 12:01	1
Xylenes, Total	ND		0.010	0.0044	mg/Kg	☼	07/17/17 05:28	07/17/17 12:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*63 - 120*	*07/17/17 05:28*	*07/17/17 12:01*	*1*
Dibromofluoromethane (Surr)	*88*		*68 - 121*	*07/17/17 05:28*	*07/17/17 12:01*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*52 - 124*	*07/17/17 05:28*	*07/17/17 12:01*	*1*
Toluene-d8 (Surr)	*99*		*72 - 127*	*07/17/17 05:28*	*07/17/17 12:01*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**7.3**		0.1	0.1	%			07/14/17 13:15	1
Percent Solids	**92.7**		0.1	0.1	%			07/14/17 13:15	1

Client Sample ID: W5, S4, B 71217 — Lab Sample ID: 180-68140-20

Date Collected: 07/12/17 12:50 — **Matrix: Solid**
Date Received: 07/12/17 21:10 — **Percent Solids: 85.1**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.024	0.0038	mg/Kg	☼	07/16/17 09:00	07/16/17 16:53	1
Benzene	ND		0.0060	0.0024	mg/Kg	☼	07/16/17 09:00	07/16/17 16:53	1
2-Butanone (MEK)	ND		0.0060	0.0035	mg/Kg	☼	07/16/17 09:00	07/16/17 16:53	1
Carbon tetrachloride	ND		0.0060	0.0040	mg/Kg	☼	07/16/17 09:00	07/16/17 16:53	1
Chlorobenzene	ND		0.0060	0.0019	mg/Kg	☼	07/16/17 09:00	07/16/17 16:53	1
Chloroform	ND		0.0060	0.0025	mg/Kg	☼	07/16/17 09:00	07/16/17 16:53	1
cis-1,2-Dichloroethene	ND		0.0060	0.0019	mg/Kg	☼	07/16/17 09:00	07/16/17 16:53	1
1,2-Dichlorobenzene	ND		0.0060	0.0048	mg/Kg	☼	07/16/17 09:00	07/16/17 16:53	1
1,3-Dichlorobenzene	ND		0.0060	0.0019	mg/Kg	☼	07/16/17 09:00	07/16/17 16:53	1
1,4-Dichlorobenzene	ND		0.0060	0.0012	mg/Kg	☼	07/16/17 09:00	07/16/17 16:53	1
1,1-Dichloroethane	ND		0.0060	0.0022	mg/Kg	☼	07/16/17 09:00	07/16/17 16:53	1
1,2-Dichloroethane	ND		0.0060	0.0017	mg/Kg	☼	07/16/17 09:00	07/16/17 16:53	1
1,1-Dichloroethene	ND		0.0060	0.0034	mg/Kg	☼	07/16/17 09:00	07/16/17 16:53	1
Ethylbenzene	ND		0.0060	0.0026	mg/Kg	☼	07/16/17 09:00	07/16/17 16:53	1
Methylene Chloride	ND		0.0060	0.0028	mg/Kg	☼	07/16/17 09:00	07/16/17 16:53	1
Methyl tert-butyl ether	ND		0.0060	0.0044	mg/Kg	☼	07/16/17 09:00	07/16/17 16:53	1
n-Butylbenzene	ND		0.0060	0.0046	mg/Kg	☼	07/16/17 09:00	07/16/17 16:53	1
N-Propylbenzene	ND		0.0060	0.0025	mg/Kg	☼	07/16/17 09:00	07/16/17 16:53	1
sec-Butylbenzene	ND		0.0060	0.0029	mg/Kg	☼	07/16/17 09:00	07/16/17 16:53	1
tert-Butylbenzene	ND		0.0060	0.0022	mg/Kg	☼	07/16/17 09:00	07/16/17 16:53	1
Tetrachloroethene	ND		0.0060	0.0024	mg/Kg	☼	07/16/17 09:00	07/16/17 16:53	1
Toluene	ND		0.0060	0.0020	mg/Kg	☼	07/16/17 09:00	07/16/17 16:53	1
trans-1,2-Dichloroethene	ND		0.0060	0.0030	mg/Kg	☼	07/16/17 09:00	07/16/17 16:53	1
1,1,1-Trichloroethane	ND		0.0060	0.0030	mg/Kg	☼	07/16/17 09:00	07/16/17 16:53	1
Trichloroethene	ND		0.0060	0.0018	mg/Kg	☼	07/16/17 09:00	07/16/17 16:53	1
1,2,4-Trimethylbenzene	ND		0.0060	0.0016	mg/Kg	☼	07/16/17 09:00	07/16/17 16:53	1
1,3,5-Trimethylbenzene	ND		0.0060	0.0021	mg/Kg	☼	07/16/17 09:00	07/16/17 16:53	1
Vinyl chloride	ND		0.0060	0.0044	mg/Kg	☼	07/16/17 09:00	07/16/17 16:53	1

Client Sample ID: W5, S4, B 71217 — Lab Sample ID: 180-68140-20

Date Collected: 07/12/17 12:50 — **Matrix: Solid**
Date Received: 07/12/17 21:10 — **Percent Solids: 85.1**

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	ND		0.012	0.0052	mg/Kg	☼	07/16/17 09:00	07/16/17 16:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*63 - 120*	*07/16/17 09:00*	*07/16/17 16:53*	*1*
Dibromofluoromethane (Surr)	*91*		*68 - 121*	*07/16/17 09:00*	*07/16/17 16:53*	*1*
1,2-Dichloroethane-d4 (Surr)	*86*		*52 - 124*	*07/16/17 09:00*	*07/16/17 16:53*	*1*
Toluene-d8 (Surr)	*115*		*72 - 127*	*07/16/17 09:00*	*07/16/17 16:53*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**14.9**		0.1	0.1	%			07/14/17 13:15	1
Percent Solids	**85.1**		0.1	0.1	%			07/14/17 13:15	1

Client Sample ID: W5, S4, C 71217 — Lab Sample ID: 180-68140-21

Date Collected: 07/12/17 12:55 — **Matrix: Solid**
Date Received: 07/12/17 21:10 — **Percent Solids: 91.0**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.037	0.012	mg/Kg	☼	07/15/17 04:42	07/17/17 18:41	5
Acenaphthylene	**0.12**		0.037	0.012	mg/Kg	☼	07/15/17 04:42	07/17/17 18:41	5
Anthracene	**0.18**		0.037	0.014	mg/Kg	☼	07/15/17 04:42	07/17/17 18:41	5
Benzo[a]anthracene	**0.49**		0.037	0.015	mg/Kg	☼	07/15/17 04:42	07/17/17 18:41	5
Benzo[a]pyrene	**0.49**		0.037	0.015	mg/Kg	☼	07/15/17 04:42	07/17/17 18:41	5
Benzo[b]fluoranthene	**0.57**		0.037	0.016	mg/Kg	☼	07/15/17 04:42	07/17/17 18:41	5
Benzo[g,h,i]perylene	**0.52**		0.037	0.016	mg/Kg	☼	07/15/17 04:42	07/17/17 18:41	5
Benzo[k]fluoranthene	**0.22**		0.037	0.013	mg/Kg	☼	07/15/17 04:42	07/17/17 18:41	5
Chrysene	**0.43**		0.037	0.014	mg/Kg	☼	07/15/17 04:42	07/17/17 18:41	5
Dibenz(a,h)anthracene	**0.13**		0.037	0.015	mg/Kg	☼	07/15/17 04:42	07/17/17 18:41	5
Dibenzofuran	**0.031**	**J**	0.18	0.015	mg/Kg	☼	07/15/17 04:42	07/17/17 18:41	5
1,4-Dioxane	ND		0.37	0.028	mg/Kg	☼	07/15/17 04:42	07/17/17 18:41	5
Fluoranthene	**0.83**		0.037	0.014	mg/Kg	☼	07/15/17 04:42	07/17/17 18:41	5
Fluorene	**0.024**	**J**	0.037	0.013	mg/Kg	☼	07/15/17 04:42	07/17/17 18:41	5
Hexachlorobenzene	ND		0.037	0.015	mg/Kg	☼	07/15/17 04:42	07/17/17 18:41	5
Indeno[1,2,3-cd]pyrene	**0.44**		0.037	0.014	mg/Kg	☼	07/15/17 04:42	07/17/17 18:41	5
2-Methylphenol	ND		0.18	0.016	mg/Kg	☼	07/15/17 04:42	07/17/17 18:41	5
Methylphenol, 3 & 4	ND		0.18	0.016	mg/Kg	☼	07/15/17 04:42	07/17/17 18:41	5
Naphthalene	**0.095**		0.037	0.013	mg/Kg	☼	07/15/17 04:42	07/17/17 18:41	5
Pentachlorophenol	ND		0.93	0.35	mg/Kg	☼	07/15/17 04:42	07/17/17 18:41	5
Phenanthrene	**0.38**		0.037	0.015	mg/Kg	☼	07/15/17 04:42	07/17/17 18:41	5
Phenol	ND		0.18	0.025	mg/Kg	☼	07/15/17 04:42	07/17/17 18:41	5
Pyrene	**0.63**		0.037	0.016	mg/Kg	☼	07/15/17 04:42	07/17/17 18:41	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*62*		*42 - 100*	*07/15/17 04:42*	*07/17/17 18:41*	*5*
2-Fluorophenol (Surr)	*43*		*21 - 107*	*07/15/17 04:42*	*07/17/17 18:41*	*5*
Nitrobenzene-d5 (Surr)	*63*		*35 - 109*	*07/15/17 04:42*	*07/17/17 18:41*	*5*
Phenol-d5 (Surr)	*49*		*29 - 105*	*07/15/17 04:42*	*07/17/17 18:41*	*5*
Terphenyl-d14 (Surr)	*54*		*36 - 113*	*07/15/17 04:42*	*07/17/17 18:41*	*5*
2,4,6-Tribromophenol (Surr)	*54*		*20 - 134*	*07/15/17 04:42*	*07/17/17 18:41*	*5*

Client Sample ID: W5, S4, C 71217 — Lab Sample ID: 180-68140-21

Date Collected: 07/12/17 12:55 — **Matrix: Solid**
Date Received: 07/12/17 21:10 — **Percent Solids: 91.0**

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.018	0.0095	mg/Kg	☼	07/15/17 04:45	07/16/17 00:42	1
PCB-1221	ND		0.018	0.0093	mg/Kg	☼	07/15/17 04:45	07/16/17 00:42	1
PCB-1232	ND		0.018	0.0071	mg/Kg	☼	07/15/17 04:45	07/16/17 00:42	1
PCB-1242	ND		0.018	0.014	mg/Kg	☼	07/15/17 04:45	07/16/17 00:42	1
PCB-1248	**0.91**		0.018	0.0086	mg/Kg	☼	07/15/17 04:45	07/16/17 00:42	1
PCB-1254	**0.64**		0.018	0.0079	mg/Kg	☼	07/15/17 04:45	07/16/17 00:42	1
PCB-1260	**0.19**		0.018	0.012	mg/Kg	☼	07/15/17 04:45	07/16/17 00:42	1
PCB-1262	ND		0.018	0.013	mg/Kg	☼	07/15/17 04:45	07/16/17 00:42	1
PCB-1268	ND		0.018	0.0055	mg/Kg	☼	07/15/17 04:45	07/16/17 00:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*75*		*23 - 150*	*07/15/17 04:45*	*07/16/17 00:42*	*1*
DCB Decachlorobiphenyl (Surr)	*81*		*23 - 150*	*07/15/17 04:45*	*07/16/17 00:42*	*1*
Tetrachloro-m-xylene (Surr)	*72*		*27 - 138*	*07/15/17 04:45*	*07/16/17 00:42*	*1*
Tetrachloro-m-xylene (Surr)	*73*		*27 - 138*	*07/15/17 04:45*	*07/16/17 00:42*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**11**		1.1	0.50	mg/Kg	☼	07/14/17 11:31	07/17/17 09:10	1
Barium	**85**		23	6.1	mg/Kg	☼	07/14/17 11:31	07/17/17 09:10	1
Beryllium	**0.42**	**J**	0.46	0.12	mg/Kg	☼	07/14/17 11:31	07/17/17 09:10	1
Cadmium	**0.62**		0.57	0.13	mg/Kg	☼	07/14/17 11:31	07/17/17 09:10	1
Chromium	**11**		0.57	0.15	mg/Kg	☼	07/14/17 11:31	07/17/17 09:10	1
Copper	**25**		2.9	0.88	mg/Kg	☼	07/14/17 11:31	07/17/17 09:10	1
Lead	**33**		1.1	0.38	mg/Kg	☼	07/14/17 11:31	07/17/17 09:10	1
Manganese	**510**		1.7	0.46	mg/Kg	☼	07/14/17 11:31	07/17/17 09:10	1
Nickel	**23**		4.6	1.0	mg/Kg	☼	07/14/17 11:31	07/17/17 09:10	1
Selenium	**0.57**	**J**	1.1	0.45	mg/Kg	☼	07/14/17 11:31	07/17/17 09:10	1
Silver	ND		0.57	0.19	mg/Kg	☼	07/14/17 11:31	07/17/17 09:10	1
Zinc	**76**		2.3	1.2	mg/Kg	☼	07/14/17 11:31	07/17/17 09:10	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.27**		0.036	0.0081	mg/Kg	☼	07/18/17 14:49	07/19/17 12:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.0**		0.1	0.1	%			07/14/17 13:15	1
Percent Solids	**91.0**		0.1	0.1	%			07/14/17 13:15	1
Cyanide, Total	ND		0.49	0.15	mg/Kg	☼	07/18/17 10:56	07/18/17 14:21	1

Client Sample ID: W5, S3, A 71217 — Lab Sample ID: 180-68140-22

Date Collected: 07/12/17 13:15 — **Matrix: Solid**
Date Received: 07/12/17 21:10 — **Percent Solids: 93.8**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.022	0.0034	mg/Kg	☼	07/17/17 05:28	07/17/17 12:46	1
Benzene	ND		0.0055	0.0021	mg/Kg	☼	07/17/17 05:28	07/17/17 12:46	1
2-Butanone (MEK)	ND		0.0055	0.0032	mg/Kg	☼	07/17/17 05:28	07/17/17 12:46	1
Carbon tetrachloride	ND		0.0055	0.0036	mg/Kg	☼	07/17/17 05:28	07/17/17 12:46	1

Client Sample ID: W5, S3, A 71217 — Lab Sample ID: 180-68140-22

Date Collected: 07/12/17 13:15 — **Matrix: Solid**
Date Received: 07/12/17 21:10 — **Percent Solids: 93.8**

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	ND		0.0055	0.0017	mg/Kg	☼	07/17/17 05:28	07/17/17 12:46	1
Chloroform	ND		0.0055	0.0023	mg/Kg	☼	07/17/17 05:28	07/17/17 12:46	1
cis-1,2-Dichloroethene	ND		0.0055	0.0017	mg/Kg	☼	07/17/17 05:28	07/17/17 12:46	1
1,2-Dichlorobenzene	ND		0.0055	0.0044	mg/Kg	☼	07/17/17 05:28	07/17/17 12:46	1
1,3-Dichlorobenzene	ND		0.0055	0.0017	mg/Kg	☼	07/17/17 05:28	07/17/17 12:46	1
1,4-Dichlorobenzene	ND		0.0055	0.0011	mg/Kg	☼	07/17/17 05:28	07/17/17 12:46	1
1,1-Dichloroethane	ND		0.0055	0.0020	mg/Kg	☼	07/17/17 05:28	07/17/17 12:46	1
1,2-Dichloroethane	ND		0.0055	0.0016	mg/Kg	☼	07/17/17 05:28	07/17/17 12:46	1
1,1-Dichloroethene	ND		0.0055	0.0031	mg/Kg	☼	07/17/17 05:28	07/17/17 12:46	1
Ethylbenzene	ND		0.0055	0.0023	mg/Kg	☼	07/17/17 05:28	07/17/17 12:46	1
Methylene Chloride	ND		0.0055	0.0026	mg/Kg	☼	07/17/17 05:28	07/17/17 12:46	1
Methyl tert-butyl ether	ND		0.0055	0.0040	mg/Kg	☼	07/17/17 05:28	07/17/17 12:46	1
n-Butylbenzene	ND		0.0055	0.0041	mg/Kg	☼	07/17/17 05:28	07/17/17 12:46	1
N-Propylbenzene	ND		0.0055	0.0023	mg/Kg	☼	07/17/17 05:28	07/17/17 12:46	1
sec-Butylbenzene	ND		0.0055	0.0027	mg/Kg	☼	07/17/17 05:28	07/17/17 12:46	1
tert-Butylbenzene	ND		0.0055	0.0020	mg/Kg	☼	07/17/17 05:28	07/17/17 12:46	1
Tetrachloroethene	ND		0.0055	0.0022	mg/Kg	☼	07/17/17 05:28	07/17/17 12:46	1
Toluene	ND		0.0055	0.0018	mg/Kg	☼	07/17/17 05:28	07/17/17 12:46	1
trans-1,2-Dichloroethene	ND		0.0055	0.0028	mg/Kg	☼	07/17/17 05:28	07/17/17 12:46	1
1,1,1-Trichloroethane	ND		0.0055	0.0027	mg/Kg	☼	07/17/17 05:28	07/17/17 12:46	1
Trichloroethene	ND		0.0055	0.0016	mg/Kg	☼	07/17/17 05:28	07/17/17 12:46	1
1,2,4-Trimethylbenzene	ND		0.0055	0.0015	mg/Kg	☼	07/17/17 05:28	07/17/17 12:46	1
1,3,5-Trimethylbenzene	ND		0.0055	0.0019	mg/Kg	☼	07/17/17 05:28	07/17/17 12:46	1
Vinyl chloride	ND		0.0055	0.0040	mg/Kg	☼	07/17/17 05:28	07/17/17 12:46	1
Xylenes, Total	ND		0.011	0.0047	mg/Kg	☼	07/17/17 05:28	07/17/17 12:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*63 - 120*	*07/17/17 05:28*	*07/17/17 12:46*	*1*
Dibromofluoromethane (Surr)	*90*		*68 - 121*	*07/17/17 05:28*	*07/17/17 12:46*	*1*
1,2-Dichloroethane-d4 (Surr)	*87*		*52 - 124*	*07/17/17 05:28*	*07/17/17 12:46*	*1*
Toluene-d8 (Surr)	*111*		*72 - 127*	*07/17/17 05:28*	*07/17/17 12:46*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**6.2**		0.1	0.1	%			07/14/17 13:15	1
Percent Solids	**93.8**		0.1	0.1	%			07/14/17 13:15	1

Client Sample ID: W5, S3, B 71217 — Lab Sample ID: 180-68140-23

Date Collected: 07/12/17 13:20 — **Matrix: Solid**
Date Received: 07/12/17 21:10 — **Percent Solids: 92.1**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.021	0.0033	mg/Kg	☼	07/16/17 09:00	07/16/17 17:38	1
Benzene	ND		0.0052	0.0020	mg/Kg	☼	07/16/17 09:00	07/16/17 17:38	1
2-Butanone (MEK)	ND		0.0052	0.0030	mg/Kg	☼	07/16/17 09:00	07/16/17 17:38	1
Carbon tetrachloride	ND		0.0052	0.0034	mg/Kg	☼	07/16/17 09:00	07/16/17 17:38	1
Chlorobenzene	ND		0.0052	0.0016	mg/Kg	☼	07/16/17 09:00	07/16/17 17:38	1
Chloroform	ND		0.0052	0.0022	mg/Kg	☼	07/16/17 09:00	07/16/17 17:38	1
cis-1,2-Dichloroethene	ND		0.0052	0.0016	mg/Kg	☼	07/16/17 09:00	07/16/17 17:38	1

Client Sample ID: W5, S3, B 71217 — Lab Sample ID: 180-68140-23

Date Collected: 07/12/17 13:20 — **Matrix: Solid**
Date Received: 07/12/17 21:10 — **Percent Solids: 92.1**

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		0.0052	0.0042	mg/Kg	☼	07/16/17 09:00	07/16/17 17:38	1
1,3-Dichlorobenzene	ND		0.0052	0.0017	mg/Kg	☼	07/16/17 09:00	07/16/17 17:38	1
1,4-Dichlorobenzene	ND		0.0052	0.0011	mg/Kg	☼	07/16/17 09:00	07/16/17 17:38	1
1,1-Dichloroethane	ND		0.0052	0.0019	mg/Kg	☼	07/16/17 09:00	07/16/17 17:38	1
1,2-Dichloroethane	ND		0.0052	0.0015	mg/Kg	☼	07/16/17 09:00	07/16/17 17:38	1
1,1-Dichloroethene	ND		0.0052	0.0030	mg/Kg	☼	07/16/17 09:00	07/16/17 17:38	1
Ethylbenzene	ND		0.0052	0.0022	mg/Kg	☼	07/16/17 09:00	07/16/17 17:38	1
Methylene Chloride	ND		0.0052	0.0024	mg/Kg	☼	07/16/17 09:00	07/16/17 17:38	1
Methyl tert-butyl ether	ND		0.0052	0.0038	mg/Kg	☼	07/16/17 09:00	07/16/17 17:38	1
n-Butylbenzene	ND		0.0052	0.0039	mg/Kg	☼	07/16/17 09:00	07/16/17 17:38	1
N-Propylbenzene	ND		0.0052	0.0022	mg/Kg	☼	07/16/17 09:00	07/16/17 17:38	1
sec-Butylbenzene	ND		0.0052	0.0025	mg/Kg	☼	07/16/17 09:00	07/16/17 17:38	1
tert-Butylbenzene	ND		0.0052	0.0019	mg/Kg	☼	07/16/17 09:00	07/16/17 17:38	1
Tetrachloroethene	ND		0.0052	0.0021	mg/Kg	☼	07/16/17 09:00	07/16/17 17:38	1
Toluene	ND		0.0052	0.0017	mg/Kg	☼	07/16/17 09:00	07/16/17 17:38	1
trans-1,2-Dichloroethene	ND		0.0052	0.0026	mg/Kg	☼	07/16/17 09:00	07/16/17 17:38	1
1,1,1-Trichloroethane	ND		0.0052	0.0026	mg/Kg	☼	07/16/17 09:00	07/16/17 17:38	1
Trichloroethene	ND		0.0052	0.0016	mg/Kg	☼	07/16/17 09:00	07/16/17 17:38	1
1,2,4-Trimethylbenzene	ND		0.0052	0.0014	mg/Kg	☼	07/16/17 09:00	07/16/17 17:38	1
1,3,5-Trimethylbenzene	ND		0.0052	0.0018	mg/Kg	☼	07/16/17 09:00	07/16/17 17:38	1
Vinyl chloride	ND		0.0052	0.0038	mg/Kg	☼	07/16/17 09:00	07/16/17 17:38	1
Xylenes, Total	ND		0.010	0.0045	mg/Kg	☼	07/16/17 09:00	07/16/17 17:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*63 - 120*	*07/16/17 09:00*	*07/16/17 17:38*	*1*
Dibromofluoromethane (Surr)	*95*		*68 - 121*	*07/16/17 09:00*	*07/16/17 17:38*	*1*
1,2-Dichloroethane-d4 (Surr)	*87*		*52 - 124*	*07/16/17 09:00*	*07/16/17 17:38*	*1*
Toluene-d8 (Surr)	*118*		*72 - 127*	*07/16/17 09:00*	*07/16/17 17:38*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**7.9**		0.1	0.1	%			07/14/17 13:15	1
Percent Solids	**92.1**		0.1	0.1	%			07/14/17 13:15	1

Client Sample ID: W5, S3, C 71217 — Lab Sample ID: 180-68140-24

Date Collected: 07/12/17 13:25 — **Matrix: Solid**
Date Received: 07/12/17 21:10 — **Percent Solids: 90.9**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.013**	**J**	0.015	0.0049	mg/Kg	☼	07/15/17 04:42	07/17/17 19:08	2
Acenaphthylene	**0.16**		0.015	0.0049	mg/Kg	☼	07/15/17 04:42	07/17/17 19:08	2
Anthracene	**0.25**		0.015	0.0053	mg/Kg	☼	07/15/17 04:42	07/17/17 19:08	2
Benzo[a]anthracene	**0.83**		0.015	0.0057	mg/Kg	☼	07/15/17 04:42	07/17/17 19:08	2
Benzo[a]pyrene	**0.87**		0.015	0.0060	mg/Kg	☼	07/15/17 04:42	07/17/17 19:08	2
Benzo[b]fluoranthene	**0.98**		0.015	0.0063	mg/Kg	☼	07/15/17 04:42	07/17/17 19:08	2
Benzo[g,h,i]perylene	**0.86**		0.015	0.0063	mg/Kg	☼	07/15/17 04:42	07/17/17 19:08	2
Benzo[k]fluoranthene	**0.38**		0.015	0.0050	mg/Kg	☼	07/15/17 04:42	07/17/17 19:08	2
Chrysene	**0.74**		0.015	0.0057	mg/Kg	☼	07/15/17 04:42	07/17/17 19:08	2
Dibenz(a,h)anthracene	**0.21**		0.015	0.0060	mg/Kg	☼	07/15/17 04:42	07/17/17 19:08	2

Client Sample ID: W5, S3, C 71217 **Lab Sample ID: 180-68140-24**
Date Collected: 07/12/17 13:25 **Matrix: Solid**
Date Received: 07/12/17 21:10 **Percent Solids: 90.9**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenzofuran	**0.044**	**J**	0.072	0.0058	mg/Kg	☼	07/15/17 04:42	07/17/17 19:08	2
1,4-Dioxane	ND		0.14	0.011	mg/Kg	☼	07/15/17 04:42	07/17/17 19:08	2
Fluoranthene	**1.4**		0.015	0.0057	mg/Kg	☼	07/15/17 04:42	07/17/17 19:08	2
Fluorene	**0.034**		0.015	0.0052	mg/Kg	☼	07/15/17 04:42	07/17/17 19:08	2
Hexachlorobenzene	ND		0.015	0.0058	mg/Kg	☼	07/15/17 04:42	07/17/17 19:08	2
Indeno[1,2,3-cd]pyrene	**0.78**		0.015	0.0056	mg/Kg	☼	07/15/17 04:42	07/17/17 19:08	2
2-Methylphenol	ND		0.072	0.0064	mg/Kg	☼	07/15/17 04:42	07/17/17 19:08	2
Methylphenol, 3 & 4	**0.0072**	**J**	0.072	0.0064	mg/Kg	☼	07/15/17 04:42	07/17/17 19:08	2
Naphthalene	**0.17**		0.015	0.0052	mg/Kg	☼	07/15/17 04:42	07/17/17 19:08	2
Pentachlorophenol	ND		0.37	0.14	mg/Kg	☼	07/15/17 04:42	07/17/17 19:08	2
Phenanthrene	**0.61**		0.015	0.0060	mg/Kg	☼	07/15/17 04:42	07/17/17 19:08	2
Phenol	ND		0.072	0.0098	mg/Kg	☼	07/15/17 04:42	07/17/17 19:08	2
Pyrene	**1.1**		0.015	0.0064	mg/Kg	☼	07/15/17 04:42	07/17/17 19:08	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*57*		*42 - 100*	*07/15/17 04:42*	*07/17/17 19:08*	*2*
2-Fluorophenol (Surr)	*50*		*21 - 107*	*07/15/17 04:42*	*07/17/17 19:08*	*2*
Nitrobenzene-d5 (Surr)	*62*		*35 - 109*	*07/15/17 04:42*	*07/17/17 19:08*	*2*
Phenol-d5 (Surr)	*47*		*29 - 105*	*07/15/17 04:42*	*07/17/17 19:08*	*2*
Terphenyl-d14 (Surr)	*44*		*36 - 113*	*07/15/17 04:42*	*07/17/17 19:08*	*2*
2,4,6-Tribromophenol (Surr)	*52*		*20 - 134*	*07/15/17 04:42*	*07/17/17 19:08*	*2*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.018	0.0095	mg/Kg	☼	07/15/17 04:45	07/16/17 01:47	1
PCB-1221	ND		0.018	0.0092	mg/Kg	☼	07/15/17 04:45	07/16/17 01:47	1
PCB-1232	ND		0.018	0.0071	mg/Kg	☼	07/15/17 04:45	07/16/17 01:47	1
PCB-1242	ND		0.018	0.014	mg/Kg	☼	07/15/17 04:45	07/16/17 01:47	1
PCB-1248	**0.71**		0.018	0.0085	mg/Kg	☼	07/15/17 04:45	07/16/17 01:47	1
PCB-1254	**0.47**		0.018	0.0078	mg/Kg	☼	07/15/17 04:45	07/16/17 01:47	1
PCB-1260	**0.14**		0.018	0.012	mg/Kg	☼	07/15/17 04:45	07/16/17 01:47	1
PCB-1262	ND		0.018	0.013	mg/Kg	☼	07/15/17 04:45	07/16/17 01:47	1
PCB-1268	ND		0.018	0.0054	mg/Kg	☼	07/15/17 04:45	07/16/17 01:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*84*		*23 - 150*	*07/15/17 04:45*	*07/16/17 01:47*	*1*
DCB Decachlorobiphenyl (Surr)	*94*		*23 - 150*	*07/15/17 04:45*	*07/16/17 01:47*	*1*
Tetrachloro-m-xylene (Surr)	*80*		*27 - 138*	*07/15/17 04:45*	*07/16/17 01:47*	*1*
Tetrachloro-m-xylene (Surr)	*83*		*27 - 138*	*07/15/17 04:45*	*07/16/17 01:47*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**6.3**		1.2	0.52	mg/Kg	☼	07/14/17 11:31	07/17/17 09:15	1
Barium	**86**		24	6.3	mg/Kg	☼	07/14/17 11:31	07/17/17 09:15	1
Beryllium	**0.33**	**J**	0.47	0.12	mg/Kg	☼	07/14/17 11:31	07/17/17 09:15	1
Cadmium	**0.30**	**J**	0.59	0.13	mg/Kg	☼	07/14/17 11:31	07/17/17 09:15	1
Chromium	**8.7**		0.59	0.15	mg/Kg	☼	07/14/17 11:31	07/17/17 09:15	1
Copper	**22**		3.0	0.91	mg/Kg	☼	07/14/17 11:31	07/17/17 09:15	1
Lead	**28**		1.2	0.39	mg/Kg	☼	07/14/17 11:31	07/17/17 09:15	1
Manganese	**360**		1.8	0.48	mg/Kg	☼	07/14/17 11:31	07/17/17 09:15	1

Client Sample ID: W5, S3, C 71217

Lab Sample ID: 180-68140-24

Date Collected: 07/12/17 13:25
Matrix: Solid
Date Received: 07/12/17 21:10
Percent Solids: 90.9

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	**16**		4.7	1.1	mg/Kg	☼	07/14/17 11:31	07/17/17 09:15	1
Selenium	**0.55**	**J**	1.2	0.47	mg/Kg	☼	07/14/17 11:31	07/17/17 09:15	1
Silver	ND		0.59	0.20	mg/Kg	☼	07/14/17 11:31	07/17/17 09:15	1
Zinc	**63**		2.4	1.2	mg/Kg	☼	07/14/17 11:31	07/17/17 09:15	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.24**		0.036	0.0080	mg/Kg	☼	07/18/17 14:49	07/19/17 12:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.1**		0.1	0.1	%			07/14/17 13:15	1
Percent Solids	**90.9**		0.1	0.1	%			07/14/17 13:15	1
Cyanide, Total	ND		0.51	0.16	mg/Kg	☼	07/18/17 10:56	07/18/17 14:23	1

Client Sample ID: W5, S2, A 71217

Lab Sample ID: 180-68140-25

Date Collected: 07/12/17 13:45
Matrix: Solid
Date Received: 07/12/17 21:10
Percent Solids: 94.2

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.021	0.0033	mg/Kg	☼	07/16/17 09:00	07/16/17 18:01	1
Benzene	ND		0.0052	0.0020	mg/Kg	☼	07/16/17 09:00	07/16/17 18:01	1
2-Butanone (MEK)	ND		0.0052	0.0030	mg/Kg	☼	07/16/17 09:00	07/16/17 18:01	1
Carbon tetrachloride	ND		0.0052	0.0035	mg/Kg	☼	07/16/17 09:00	07/16/17 18:01	1
Chlorobenzene	ND		0.0052	0.0016	mg/Kg	☼	07/16/17 09:00	07/16/17 18:01	1
Chloroform	ND		0.0052	0.0022	mg/Kg	☼	07/16/17 09:00	07/16/17 18:01	1
cis-1,2-Dichloroethene	ND		0.0052	0.0016	mg/Kg	☼	07/16/17 09:00	07/16/17 18:01	1
1,2-Dichlorobenzene	ND		0.0052	0.0042	mg/Kg	☼	07/16/17 09:00	07/16/17 18:01	1
1,3-Dichlorobenzene	ND		0.0052	0.0017	mg/Kg	☼	07/16/17 09:00	07/16/17 18:01	1
1,4-Dichlorobenzene	ND		0.0052	0.0011	mg/Kg	☼	07/16/17 09:00	07/16/17 18:01	1
1,1-Dichloroethane	ND		0.0052	0.0019	mg/Kg	☼	07/16/17 09:00	07/16/17 18:01	1
1,2-Dichloroethane	ND		0.0052	0.0015	mg/Kg	☼	07/16/17 09:00	07/16/17 18:01	1
1,1-Dichloroethene	ND		0.0052	0.0030	mg/Kg	☼	07/16/17 09:00	07/16/17 18:01	1
Ethylbenzene	ND		0.0052	0.0022	mg/Kg	☼	07/16/17 09:00	07/16/17 18:01	1
Methylene Chloride	ND		0.0052	0.0025	mg/Kg	☼	07/16/17 09:00	07/16/17 18:01	1
Methyl tert-butyl ether	ND		0.0052	0.0038	mg/Kg	☼	07/16/17 09:00	07/16/17 18:01	1
n-Butylbenzene	ND		0.0052	0.0039	mg/Kg	☼	07/16/17 09:00	07/16/17 18:01	1
N-Propylbenzene	ND		0.0052	0.0022	mg/Kg	☼	07/16/17 09:00	07/16/17 18:01	1
sec-Butylbenzene	ND		0.0052	0.0025	mg/Kg	☼	07/16/17 09:00	07/16/17 18:01	1
tert-Butylbenzene	ND		0.0052	0.0019	mg/Kg	☼	07/16/17 09:00	07/16/17 18:01	1
Tetrachloroethene	ND		0.0052	0.0021	mg/Kg	☼	07/16/17 09:00	07/16/17 18:01	1
Toluene	ND		0.0052	0.0018	mg/Kg	☼	07/16/17 09:00	07/16/17 18:01	1
trans-1,2-Dichloroethene	ND		0.0052	0.0026	mg/Kg	☼	07/16/17 09:00	07/16/17 18:01	1
1,1,1-Trichloroethane	ND		0.0052	0.0026	mg/Kg	☼	07/16/17 09:00	07/16/17 18:01	1
Trichloroethene	ND		0.0052	0.0016	mg/Kg	☼	07/16/17 09:00	07/16/17 18:01	1
1,2,4-Trimethylbenzene	ND		0.0052	0.0014	mg/Kg	☼	07/16/17 09:00	07/16/17 18:01	1
1,3,5-Trimethylbenzene	ND		0.0052	0.0018	mg/Kg	☼	07/16/17 09:00	07/16/17 18:01	1
Vinyl chloride	ND		0.0052	0.0038	mg/Kg	☼	07/16/17 09:00	07/16/17 18:01	1
Xylenes, Total	ND		0.010	0.0045	mg/Kg	☼	07/16/17 09:00	07/16/17 18:01	1

Client Sample ID: W5, S2, A 71217

Lab Sample ID: 180-68140-25

Date Collected: 07/12/17 13:45
Matrix: Solid
Date Received: 07/12/17 21:10
Percent Solids: 94.2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*63 - 120*	*07/16/17 09:00*	*07/16/17 18:01*	*1*
Dibromofluoromethane (Surr)	*91*		*68 - 121*	*07/16/17 09:00*	*07/16/17 18:01*	*1*
1,2-Dichloroethane-d4 (Surr)	*84*		*52 - 124*	*07/16/17 09:00*	*07/16/17 18:01*	*1*
Toluene-d8 (Surr)	*121*		*72 - 127*	*07/16/17 09:00*	*07/16/17 18:01*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**5.8**		0.1	0.1	%			07/14/17 13:15	1
Percent Solids	**94.2**		0.1	0.1	%			07/14/17 13:15	1

Client Sample ID: W5, S2, B 71217

Lab Sample ID: 180-68140-26

Date Collected: 07/12/17 13:50
Matrix: Solid
Date Received: 07/12/17 21:10
Percent Solids: 92.3

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.021	0.0033	mg/Kg	☼	07/16/17 09:00	07/16/17 18:23	1
Benzene	ND		0.0052	0.0020	mg/Kg	☼	07/16/17 09:00	07/16/17 18:23	1
2-Butanone (MEK)	ND		0.0052	0.0030	mg/Kg	☼	07/16/17 09:00	07/16/17 18:23	1
Carbon tetrachloride	ND		0.0052	0.0034	mg/Kg	☼	07/16/17 09:00	07/16/17 18:23	1
Chlorobenzene	ND		0.0052	0.0016	mg/Kg	☼	07/16/17 09:00	07/16/17 18:23	1
Chloroform	ND		0.0052	0.0022	mg/Kg	☼	07/16/17 09:00	07/16/17 18:23	1
cis-1,2-Dichloroethene	ND		0.0052	0.0016	mg/Kg	☼	07/16/17 09:00	07/16/17 18:23	1
1,2-Dichlorobenzene	ND		0.0052	0.0042	mg/Kg	☼	07/16/17 09:00	07/16/17 18:23	1
1,3-Dichlorobenzene	ND		0.0052	0.0017	mg/Kg	☼	07/16/17 09:00	07/16/17 18:23	1
1,4-Dichlorobenzene	ND		0.0052	0.0011	mg/Kg	☼	07/16/17 09:00	07/16/17 18:23	1
1,1-Dichloroethane	ND		0.0052	0.0019	mg/Kg	☼	07/16/17 09:00	07/16/17 18:23	1
1,2-Dichloroethane	ND		0.0052	0.0015	mg/Kg	☼	07/16/17 09:00	07/16/17 18:23	1
1,1-Dichloroethene	ND		0.0052	0.0030	mg/Kg	☼	07/16/17 09:00	07/16/17 18:23	1
Ethylbenzene	ND		0.0052	0.0022	mg/Kg	☼	07/16/17 09:00	07/16/17 18:23	1
Methylene Chloride	ND		0.0052	0.0025	mg/Kg	☼	07/16/17 09:00	07/16/17 18:23	1
Methyl tert-butyl ether	ND		0.0052	0.0038	mg/Kg	☼	07/16/17 09:00	07/16/17 18:23	1
n-Butylbenzene	ND		0.0052	0.0039	mg/Kg	☼	07/16/17 09:00	07/16/17 18:23	1
N-Propylbenzene	ND		0.0052	0.0022	mg/Kg	☼	07/16/17 09:00	07/16/17 18:23	1
sec-Butylbenzene	ND		0.0052	0.0025	mg/Kg	☼	07/16/17 09:00	07/16/17 18:23	1
tert-Butylbenzene	ND		0.0052	0.0019	mg/Kg	☼	07/16/17 09:00	07/16/17 18:23	1
Tetrachloroethene	ND		0.0052	0.0021	mg/Kg	☼	07/16/17 09:00	07/16/17 18:23	1
Toluene	ND		0.0052	0.0018	mg/Kg	☼	07/16/17 09:00	07/16/17 18:23	1
trans-1,2-Dichloroethene	ND		0.0052	0.0026	mg/Kg	☼	07/16/17 09:00	07/16/17 18:23	1
1,1,1-Trichloroethane	ND		0.0052	0.0026	mg/Kg	☼	07/16/17 09:00	07/16/17 18:23	1
Trichloroethene	ND		0.0052	0.0016	mg/Kg	☼	07/16/17 09:00	07/16/17 18:23	1
1,2,4-Trimethylbenzene	ND		0.0052	0.0014	mg/Kg	☼	07/16/17 09:00	07/16/17 18:23	1
1,3,5-Trimethylbenzene	ND		0.0052	0.0018	mg/Kg	☼	07/16/17 09:00	07/16/17 18:23	1
Vinyl chloride	ND		0.0052	0.0038	mg/Kg	☼	07/16/17 09:00	07/16/17 18:23	1
Xylenes, Total	ND		0.010	0.0045	mg/Kg	☼	07/16/17 09:00	07/16/17 18:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*63 - 120*	*07/16/17 09:00*	*07/16/17 18:23*	*1*
Dibromofluoromethane (Surr)	*87*		*68 - 121*	*07/16/17 09:00*	*07/16/17 18:23*	*1*
1,2-Dichloroethane-d4 (Surr)	*76*		*52 - 124*	*07/16/17 09:00*	*07/16/17 18:23*	*1*
Toluene-d8 (Surr)	*123*		*72 - 127*	*07/16/17 09:00*	*07/16/17 18:23*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	7.7		0.1	0.1	%			07/14/17 13:15	1
Percent Solids	92.3		0.1	0.1	%			07/14/17 13:15	1

Client Sample ID: W5, S2, C 71217

Lab Sample ID: 180-68140-27
Date Collected: 07/12/17 13:55
Matrix: Solid
Date Received: 07/12/17 21:10
Percent Solids: 91.6

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.071	0.024	mg/Kg	☼	07/15/17 04:42	07/17/17 19:35	10
Acenaphthylene	0.19		0.071	0.024	mg/Kg	☼	07/15/17 04:42	07/17/17 19:35	10
Anthracene	0.28		0.071	0.026	mg/Kg	☼	07/15/17 04:42	07/17/17 19:35	10
Benzo[a]anthracene	1.0		0.071	0.028	mg/Kg	☼	07/15/17 04:42	07/17/17 19:35	10
Benzo[a]pyrene	1.0		0.071	0.029	mg/Kg	☼	07/15/17 04:42	07/17/17 19:35	10
Benzo[b]fluoranthene	1.1		0.071	0.031	mg/Kg	☼	07/15/17 04:42	07/17/17 19:35	10
Benzo[g,h,i]perylene	1.0		0.071	0.031	mg/Kg	☼	07/15/17 04:42	07/17/17 19:35	10
Benzo[k]fluoranthene	0.40		0.071	0.025	mg/Kg	☼	07/15/17 04:42	07/17/17 19:35	10
Chrysene	0.87		0.071	0.028	mg/Kg	☼	07/15/17 04:42	07/17/17 19:35	10
Dibenz(a,h)anthracene	0.25		0.071	0.029	mg/Kg	☼	07/15/17 04:42	07/17/17 19:35	10
Dibenzofuran	0.052	J	0.35	0.028	mg/Kg	☼	07/15/17 04:42	07/17/17 19:35	10
1,4-Dioxane	ND		0.71	0.053	mg/Kg	☼	07/15/17 04:42	07/17/17 19:35	10
Fluoranthene	1.6		0.071	0.028	mg/Kg	☼	07/15/17 04:42	07/17/17 19:35	10
Fluorene	0.036	J	0.071	0.025	mg/Kg	☼	07/15/17 04:42	07/17/17 19:35	10
Hexachlorobenzene	ND		0.071	0.029	mg/Kg	☼	07/15/17 04:42	07/17/17 19:35	10
Indeno[1,2,3-cd]pyrene	0.95		0.071	0.027	mg/Kg	☼	07/15/17 04:42	07/17/17 19:35	10
2-Methylphenol	ND		0.35	0.031	mg/Kg	☼	07/15/17 04:42	07/17/17 19:35	10
Methylphenol, 3 & 4	ND		0.35	0.031	mg/Kg	☼	07/15/17 04:42	07/17/17 19:35	10
Naphthalene	0.17		0.071	0.025	mg/Kg	☼	07/15/17 04:42	07/17/17 19:35	10
Pentachlorophenol	ND		1.8	0.67	mg/Kg	☼	07/15/17 04:42	07/17/17 19:35	10
Phenanthrene	0.58		0.071	0.030	mg/Kg	☼	07/15/17 04:42	07/17/17 19:35	10
Phenol	ND		0.35	0.048	mg/Kg	☼	07/15/17 04:42	07/17/17 19:35	10
Pyrene	1.2		0.071	0.032	mg/Kg	☼	07/15/17 04:42	07/17/17 19:35	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*60*		*42 - 100*	*07/15/17 04:42*	*07/17/17 19:35*	*10*
2-Fluorophenol (Surr)	*51*		*21 - 107*	*07/15/17 04:42*	*07/17/17 19:35*	*10*
Nitrobenzene-d5 (Surr)	*58*		*35 - 109*	*07/15/17 04:42*	*07/17/17 19:35*	*10*
Phenol-d5 (Surr)	*47*		*29 - 105*	*07/15/17 04:42*	*07/17/17 19:35*	*10*
Terphenyl-d14 (Surr)	*53*		*36 - 113*	*07/15/17 04:42*	*07/17/17 19:35*	*10*
2,4,6-Tribromophenol (Surr)	*57*		*20 - 134*	*07/15/17 04:42*	*07/17/17 19:35*	*10*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.018	0.0096	mg/Kg	☼	07/15/17 04:45	07/16/17 02:09	1
PCB-1221	ND		0.018	0.0094	mg/Kg	☼	07/15/17 04:45	07/16/17 02:09	1
PCB-1232	ND		0.018	0.0072	mg/Kg	☼	07/15/17 04:45	07/16/17 02:09	1
PCB-1242	ND		0.018	0.014	mg/Kg	☼	07/15/17 04:45	07/16/17 02:09	1
PCB-1248	0.48		0.018	0.0086	mg/Kg	☼	07/15/17 04:45	07/16/17 02:09	1
PCB-1254	0.30		0.018	0.0079	mg/Kg	☼	07/15/17 04:45	07/16/17 02:09	1
PCB-1260	0.089		0.018	0.012	mg/Kg	☼	07/15/17 04:45	07/16/17 02:09	1
PCB-1262	ND		0.018	0.013	mg/Kg	☼	07/15/17 04:45	07/16/17 02:09	1
PCB-1268	ND		0.018	0.0055	mg/Kg	☼	07/15/17 04:45	07/16/17 02:09	1

Client Sample ID: W5, S2, C 71217

Lab Sample ID: 180-68140-27

Date Collected: 07/12/17 13:55

Matrix: Solid

Date Received: 07/12/17 21:10

Percent Solids: 91.6

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*71*		*23 - 150*	*07/15/17 04:45*	*07/16/17 02:09*	*1*
DCB Decachlorobiphenyl (Surr)	*80*		*23 - 150*	*07/15/17 04:45*	*07/16/17 02:09*	*1*
Tetrachloro-m-xylene (Surr)	*74*		*27 - 138*	*07/15/17 04:45*	*07/16/17 02:09*	*1*
Tetrachloro-m-xylene (Surr)	*76*		*27 - 138*	*07/15/17 04:45*	*07/16/17 02:09*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**4.9**		1.1	0.51	mg/Kg	☼	07/14/17 11:31	07/17/17 09:20	1
Barium	**48**		23	6.2	mg/Kg	☼	07/14/17 11:31	07/17/17 09:20	1
Beryllium	**0.29**	**J**	0.46	0.12	mg/Kg	☼	07/14/17 11:31	07/17/17 09:20	1
Cadmium	**0.14**	**J**	0.57	0.13	mg/Kg	☼	07/14/17 11:31	07/17/17 09:20	1
Chromium	**7.7**		0.57	0.15	mg/Kg	☼	07/14/17 11:31	07/17/17 09:20	1
Copper	**39**		2.9	0.88	mg/Kg	☼	07/14/17 11:31	07/17/17 09:20	1
Lead	**64**		1.1	0.38	mg/Kg	☼	07/14/17 11:31	07/17/17 09:20	1
Manganese	**300**		1.7	0.47	mg/Kg	☼	07/14/17 11:31	07/17/17 09:20	1
Nickel	**14**		4.6	1.0	mg/Kg	☼	07/14/17 11:31	07/17/17 09:20	1
Selenium	ND		1.1	0.45	mg/Kg	☼	07/14/17 11:31	07/17/17 09:20	1
Silver	ND		0.57	0.19	mg/Kg	☼	07/14/17 11:31	07/17/17 09:20	1
Zinc	**72**		2.3	1.2	mg/Kg	☼	07/14/17 11:31	07/17/17 09:20	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.11**		0.038	0.0085	mg/Kg	☼	07/18/17 14:49	07/19/17 12:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**8.4**		0.1	0.1	%			07/14/17 13:15	1
Percent Solids	**91.6**		0.1	0.1	%			07/14/17 13:15	1
Cyanide, Total	ND		0.48	0.15	mg/Kg	☼	07/18/17 10:56	07/18/17 14:25	1

Client Sample ID: W5, S1, A 71217

Lab Sample ID: 180-68140-28

Date Collected: 07/12/17 14:15

Matrix: Solid

Date Received: 07/12/17 21:10

Percent Solids: 92.0

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.018	0.0029	mg/Kg	☼	07/16/17 09:00	07/16/17 18:47	1
Benzene	ND		0.0046	0.0018	mg/Kg	☼	07/16/17 09:00	07/16/17 18:47	1
2-Butanone (MEK)	ND		0.0046	0.0027	mg/Kg	☼	07/16/17 09:00	07/16/17 18:47	1
Carbon tetrachloride	ND		0.0046	0.0030	mg/Kg	☼	07/16/17 09:00	07/16/17 18:47	1
Chlorobenzene	ND		0.0046	0.0014	mg/Kg	☼	07/16/17 09:00	07/16/17 18:47	1
Chloroform	ND		0.0046	0.0019	mg/Kg	☼	07/16/17 09:00	07/16/17 18:47	1
cis-1,2-Dichloroethene	ND		0.0046	0.0014	mg/Kg	☼	07/16/17 09:00	07/16/17 18:47	1
1,2-Dichlorobenzene	ND	*	0.0046	0.0037	mg/Kg	☼	07/16/17 09:00	07/16/17 18:47	1
1,3-Dichlorobenzene	ND	*	0.0046	0.0015	mg/Kg	☼	07/16/17 09:00	07/16/17 18:47	1
1,4-Dichlorobenzene	ND	*	0.0046	0.00093	mg/Kg	☼	07/16/17 09:00	07/16/17 18:47	1
1,1-Dichloroethane	ND		0.0046	0.0017	mg/Kg	☼	07/16/17 09:00	07/16/17 18:47	1
1,2-Dichloroethane	ND		0.0046	0.0013	mg/Kg	☼	07/16/17 09:00	07/16/17 18:47	1
1,1-Dichloroethene	ND		0.0046	0.0026	mg/Kg	☼	07/16/17 09:00	07/16/17 18:47	1
Ethylbenzene	ND		0.0046	0.0020	mg/Kg	☼	07/16/17 09:00	07/16/17 18:47	1
Methylene Chloride	ND		0.0046	0.0022	mg/Kg	☼	07/16/17 09:00	07/16/17 18:47	1

Client Sample ID: W5, S1, A 71217 — Lab Sample ID: 180-68140-28

Date Collected: 07/12/17 14:15 — **Matrix: Solid**
Date Received: 07/12/17 21:10 — **Percent Solids: 92.0**

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.0046	0.0034	mg/Kg	☼	07/16/17 09:00	07/16/17 18:47	1
n-Butylbenzene	ND	*	0.0046	0.0035	mg/Kg	☼	07/16/17 09:00	07/16/17 18:47	1
N-Propylbenzene	ND	*	0.0046	0.0019	mg/Kg	☼	07/16/17 09:00	07/16/17 18:47	1
sec-Butylbenzene	ND	*	0.0046	0.0022	mg/Kg	☼	07/16/17 09:00	07/16/17 18:47	1
tert-Butylbenzene	ND	*	0.0046	0.0017	mg/Kg	☼	07/16/17 09:00	07/16/17 18:47	1
Tetrachloroethene	ND		0.0046	0.0018	mg/Kg	☼	07/16/17 09:00	07/16/17 18:47	1
Toluene	ND		0.0046	0.0015	mg/Kg	☼	07/16/17 09:00	07/16/17 18:47	1
trans-1,2-Dichloroethene	ND		0.0046	0.0023	mg/Kg	☼	07/16/17 09:00	07/16/17 18:47	1
1,1,1-Trichloroethane	ND		0.0046	0.0023	mg/Kg	☼	07/16/17 09:00	07/16/17 18:47	1
Trichloroethene	ND		0.0046	0.0014	mg/Kg	☼	07/16/17 09:00	07/16/17 18:47	1
1,2,4-Trimethylbenzene	ND	*	0.0046	0.0012	mg/Kg	☼	07/16/17 09:00	07/16/17 18:47	1
1,3,5-Trimethylbenzene	ND	*	0.0046	0.0016	mg/Kg	☼	07/16/17 09:00	07/16/17 18:47	1
Vinyl chloride	ND		0.0046	0.0034	mg/Kg	☼	07/16/17 09:00	07/16/17 18:47	1
Xylenes, Total	ND		0.0092	0.0039	mg/Kg	☼	07/16/17 09:00	07/16/17 18:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*82*		*63 - 120*	*07/16/17 09:00*	*07/16/17 18:47*	*1*
Dibromofluoromethane (Surr)	*86*		*68 - 121*	*07/16/17 09:00*	*07/16/17 18:47*	*1*
1,2-Dichloroethane-d4 (Surr)	*76*		*52 - 124*	*07/16/17 09:00*	*07/16/17 18:47*	*1*
Toluene-d8 (Surr)	*126*		*72 - 127*	*07/16/17 09:00*	*07/16/17 18:47*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**8.0**		0.1	0.1	%			07/14/17 13:15	1
Percent Solids	**92.0**		0.1	0.1	%			07/14/17 13:15	1

Client Sample ID: W5, S1, B 71217 — Lab Sample ID: 180-68140-29

Date Collected: 07/12/17 14:20 — **Matrix: Solid**
Date Received: 07/12/17 21:10 — **Percent Solids: 94.8**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.019	0.0030	mg/Kg	☼	07/16/17 09:00	07/16/17 19:09	1
Benzene	ND		0.0048	0.0019	mg/Kg	☼	07/16/17 09:00	07/16/17 19:09	1
2-Butanone (MEK)	ND		0.0048	0.0028	mg/Kg	☼	07/16/17 09:00	07/16/17 19:09	1
Carbon tetrachloride	ND		0.0048	0.0032	mg/Kg	☼	07/16/17 09:00	07/16/17 19:09	1
Chlorobenzene	ND		0.0048	0.0015	mg/Kg	☼	07/16/17 09:00	07/16/17 19:09	1
Chloroform	ND		0.0048	0.0020	mg/Kg	☼	07/16/17 09:00	07/16/17 19:09	1
cis-1,2-Dichloroethene	ND		0.0048	0.0015	mg/Kg	☼	07/16/17 09:00	07/16/17 19:09	1
1,2-Dichlorobenzene	ND		0.0048	0.0038	mg/Kg	☼	07/16/17 09:00	07/16/17 19:09	1
1,3-Dichlorobenzene	ND		0.0048	0.0015	mg/Kg	☼	07/16/17 09:00	07/16/17 19:09	1
1,4-Dichlorobenzene	ND		0.0048	0.00097	mg/Kg	☼	07/16/17 09:00	07/16/17 19:09	1
1,1-Dichloroethane	ND		0.0048	0.0017	mg/Kg	☼	07/16/17 09:00	07/16/17 19:09	1
1,2-Dichloroethane	ND		0.0048	0.0014	mg/Kg	☼	07/16/17 09:00	07/16/17 19:09	1
1,1-Dichloroethene	ND		0.0048	0.0027	mg/Kg	☼	07/16/17 09:00	07/16/17 19:09	1
Ethylbenzene	ND		0.0048	0.0021	mg/Kg	☼	07/16/17 09:00	07/16/17 19:09	1
Methylene Chloride	ND		0.0048	0.0022	mg/Kg	☼	07/16/17 09:00	07/16/17 19:09	1
Methyl tert-butyl ether	ND		0.0048	0.0035	mg/Kg	☼	07/16/17 09:00	07/16/17 19:09	1
n-Butylbenzene	ND		0.0048	0.0036	mg/Kg	☼	07/16/17 09:00	07/16/17 19:09	1
N-Propylbenzene	ND		0.0048	0.0020	mg/Kg	☼	07/16/17 09:00	07/16/17 19:09	1

Client Sample ID: W5, S1, B 71217 — Lab Sample ID: 180-68140-29

Date Collected: 07/12/17 14:20 — **Matrix: Solid**
Date Received: 07/12/17 21:10 — **Percent Solids: 94.8**

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		0.0048	0.0023	mg/Kg	☼	07/16/17 09:00	07/16/17 19:09	1
tert-Butylbenzene	ND		0.0048	0.0017	mg/Kg	☼	07/16/17 09:00	07/16/17 19:09	1
Tetrachloroethene	ND		0.0048	0.0019	mg/Kg	☼	07/16/17 09:00	07/16/17 19:09	1
Toluene	ND		0.0048	0.0016	mg/Kg	☼	07/16/17 09:00	07/16/17 19:09	1
trans-1,2-Dichloroethene	ND		0.0048	0.0024	mg/Kg	☼	07/16/17 09:00	07/16/17 19:09	1
1,1,1-Trichloroethane	ND		0.0048	0.0024	mg/Kg	☼	07/16/17 09:00	07/16/17 19:09	1
Trichloroethene	ND		0.0048	0.0014	mg/Kg	☼	07/16/17 09:00	07/16/17 19:09	1
1,2,4-Trimethylbenzene	ND		0.0048	0.0013	mg/Kg	☼	07/16/17 09:00	07/16/17 19:09	1
1,3,5-Trimethylbenzene	ND		0.0048	0.0016	mg/Kg	☼	07/16/17 09:00	07/16/17 19:09	1
Vinyl chloride	ND		0.0048	0.0035	mg/Kg	☼	07/16/17 09:00	07/16/17 19:09	1
Xylenes, Total	ND		0.0095	0.0041	mg/Kg	☼	07/16/17 09:00	07/16/17 19:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*63 - 120*	*07/16/17 09:00*	*07/16/17 19:09*	*1*
Dibromofluoromethane (Surr)	*92*		*68 - 121*	*07/16/17 09:00*	*07/16/17 19:09*	*1*
1,2-Dichloroethane-d4 (Surr)	*84*		*52 - 124*	*07/16/17 09:00*	*07/16/17 19:09*	*1*
Toluene-d8 (Surr)	*123*		*72 - 127*	*07/16/17 09:00*	*07/16/17 19:09*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**5.2**		0.1	0.1	%			07/14/17 13:15	1
Percent Solids	**94.8**		0.1	0.1	%			07/14/17 13:15	1

Client Sample ID: W5, S1, C 71217 — Lab Sample ID: 180-68140-30

Date Collected: 07/12/17 14:25 — **Matrix: Solid**
Date Received: 07/12/17 21:10 — **Percent Solids: 93.1**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.011**	**J**	0.029	0.0096	mg/Kg	☼	07/15/17 04:42	07/17/17 20:03	4
Acenaphthylene	**0.21**		0.029	0.0097	mg/Kg	☼	07/15/17 04:42	07/17/17 20:03	4
Anthracene	**0.31**		0.029	0.010	mg/Kg	☼	07/15/17 04:42	07/17/17 20:03	4
Benzo[a]anthracene	**0.86**		0.029	0.011	mg/Kg	☼	07/15/17 04:42	07/17/17 20:03	4
Benzo[a]pyrene	**0.96**		0.029	0.012	mg/Kg	☼	07/15/17 04:42	07/17/17 20:03	4
Benzo[b]fluoranthene	**1.1**		0.029	0.012	mg/Kg	☼	07/15/17 04:42	07/17/17 20:03	4
Benzo[g,h,i]perylene	**0.98**		0.029	0.012	mg/Kg	☼	07/15/17 04:42	07/17/17 20:03	4
Benzo[k]fluoranthene	**0.40**		0.029	0.0098	mg/Kg	☼	07/15/17 04:42	07/17/17 20:03	4
Chrysene	**0.81**		0.029	0.011	mg/Kg	☼	07/15/17 04:42	07/17/17 20:03	4
Dibenz(a,h)anthracene	**0.23**		0.029	0.012	mg/Kg	☼	07/15/17 04:42	07/17/17 20:03	4
Dibenzofuran	**0.044**	**J**	0.14	0.011	mg/Kg	☼	07/15/17 04:42	07/17/17 20:03	4
1,4-Dioxane	ND		0.28	0.021	mg/Kg	☼	07/15/17 04:42	07/17/17 20:03	4
Fluoranthene	**1.5**		0.029	0.011	mg/Kg	☼	07/15/17 04:42	07/17/17 20:03	4
Fluorene	**0.036**		0.029	0.010	mg/Kg	☼	07/15/17 04:42	07/17/17 20:03	4
Hexachlorobenzene	ND		0.029	0.011	mg/Kg	☼	07/15/17 04:42	07/17/17 20:03	4
Indeno[1,2,3-cd]pyrene	**0.86**		0.029	0.011	mg/Kg	☼	07/15/17 04:42	07/17/17 20:03	4
2-Methylphenol	ND		0.14	0.013	mg/Kg	☼	07/15/17 04:42	07/17/17 20:03	4
Methylphenol, 3 & 4	ND		0.14	0.013	mg/Kg	☼	07/15/17 04:42	07/17/17 20:03	4
Naphthalene	**0.20**		0.029	0.010	mg/Kg	☼	07/15/17 04:42	07/17/17 20:03	4
Pentachlorophenol	ND		0.73	0.27	mg/Kg	☼	07/15/17 04:42	07/17/17 20:03	4
Phenanthrene	**0.52**		0.029	0.012	mg/Kg	☼	07/15/17 04:42	07/17/17 20:03	4

Client Sample ID: W5, S1, C 71217 **Lab Sample ID: 180-68140-30**
Date Collected: 07/12/17 14:25 **Matrix: Solid**
Date Received: 07/12/17 21:10 **Percent Solids: 93.1**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		0.14	0.019	mg/Kg	☼	07/15/17 04:42	07/17/17 20:03	4
Pyrene	**1.1**		0.029	0.013	mg/Kg	☼	07/15/17 04:42	07/17/17 20:03	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*59*		*42 - 100*	*07/15/17 04:42*	*07/17/17 20:03*	*4*
2-Fluorophenol (Surr)	*49*		*21 - 107*	*07/15/17 04:42*	*07/17/17 20:03*	*4*
Nitrobenzene-d5 (Surr)	*59*		*35 - 109*	*07/15/17 04:42*	*07/17/17 20:03*	*4*
Phenol-d5 (Surr)	*49*		*29 - 105*	*07/15/17 04:42*	*07/17/17 20:03*	*4*
Terphenyl-d14 (Surr)	*49*		*36 - 113*	*07/15/17 04:42*	*07/17/17 20:03*	*4*
2,4,6-Tribromophenol (Surr)	*58*		*20 - 134*	*07/15/17 04:42*	*07/17/17 20:03*	*4*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.018	0.0094	mg/Kg	☼	07/15/17 04:45	07/16/17 02:31	1
PCB-1221	ND		0.018	0.0092	mg/Kg	☼	07/15/17 04:45	07/16/17 02:31	1
PCB-1232	ND		0.018	0.0070	mg/Kg	☼	07/15/17 04:45	07/16/17 02:31	1
PCB-1242	ND		0.018	0.014	mg/Kg	☼	07/15/17 04:45	07/16/17 02:31	1
PCB-1248	**0.56**		0.018	0.0085	mg/Kg	☼	07/15/17 04:45	07/16/17 02:31	1
PCB-1254	**0.36**		0.018	0.0078	mg/Kg	☼	07/15/17 04:45	07/16/17 02:31	1
PCB-1260	**0.11**		0.018	0.012	mg/Kg	☼	07/15/17 04:45	07/16/17 02:31	1
PCB-1262	ND		0.018	0.013	mg/Kg	☼	07/15/17 04:45	07/16/17 02:31	1
PCB-1268	ND		0.018	0.0054	mg/Kg	☼	07/15/17 04:45	07/16/17 02:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*72*		*23 - 150*	*07/15/17 04:45*	*07/16/17 02:31*	*1*
DCB Decachlorobiphenyl (Surr)	*77*		*23 - 150*	*07/15/17 04:45*	*07/16/17 02:31*	*1*
Tetrachloro-m-xylene (Surr)	*73*		*27 - 138*	*07/15/17 04:45*	*07/16/17 02:31*	*1*
Tetrachloro-m-xylene (Surr)	*74*		*27 - 138*	*07/15/17 04:45*	*07/16/17 02:31*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**6.7**		1.1	0.48	mg/Kg	☼	07/14/17 11:31	07/17/17 09:25	1
Barium	**62**		22	5.8	mg/Kg	☼	07/14/17 11:31	07/17/17 09:25	1
Beryllium	**0.32**	**J**	0.43	0.11	mg/Kg	☼	07/14/17 11:31	07/17/17 09:25	1
Cadmium	**0.14**	**J**	0.54	0.12	mg/Kg	☼	07/14/17 11:31	07/17/17 09:25	1
Chromium	**8.7**		0.54	0.14	mg/Kg	☼	07/14/17 11:31	07/17/17 09:25	1
Copper	**27**		2.7	0.83	mg/Kg	☼	07/14/17 11:31	07/17/17 09:25	1
Lead	**29**		1.1	0.36	mg/Kg	☼	07/14/17 11:31	07/17/17 09:25	1
Manganese	**350**		1.6	0.44	mg/Kg	☼	07/14/17 11:31	07/17/17 09:25	1
Nickel	**16**		4.3	0.98	mg/Kg	☼	07/14/17 11:31	07/17/17 09:25	1
Selenium	ND		1.1	0.43	mg/Kg	☼	07/14/17 11:31	07/17/17 09:25	1
Silver	ND		0.54	0.18	mg/Kg	☼	07/14/17 11:31	07/17/17 09:25	1
Zinc	**65**		2.2	1.1	mg/Kg	☼	07/14/17 11:31	07/17/17 09:25	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.072**		0.034	0.0076	mg/Kg	☼	07/18/17 14:49	07/19/17 12:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**6.9**		0.1	0.1	%			07/14/17 13:15	1

Client Sample ID: W5, S1, C 71217 — Lab Sample ID: 180-68140-30

Date Collected: 07/12/17 14:25 — **Matrix: Solid**
Date Received: 07/12/17 21:10 — **Percent Solids: 93.1**

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	**93.1**		0.1	0.1	%			07/14/17 13:15	1
Cyanide, Total	ND		0.50	0.15	mg/Kg	☼	07/18/17 10:56	07/18/17 14:26	1

Client Sample ID: DUP-6 — Lab Sample ID: 180-68140-31

Date Collected: 07/12/17 00:00 — **Matrix: Solid**
Date Received: 07/12/17 21:10 — **Percent Solids: 88.5**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.15	0.050	mg/Kg	☼	07/15/17 04:42	07/17/17 20:30	20
Acenaphthylene	**0.23**		0.15	0.050	mg/Kg	☼	07/15/17 04:42	07/17/17 20:30	20
Anthracene	**0.39**		0.15	0.055	mg/Kg	☼	07/15/17 04:42	07/17/17 20:30	20
Benzo[a]anthracene	**1.0**		0.15	0.059	mg/Kg	☼	07/15/17 04:42	07/17/17 20:30	20
Benzo[a]pyrene	**0.90**		0.15	0.062	mg/Kg	☼	07/15/17 04:42	07/17/17 20:30	20
Benzo[b]fluoranthene	**1.1**		0.15	0.064	mg/Kg	☼	07/15/17 04:42	07/17/17 20:30	20
Benzo[g,h,i]perylene	**0.81**		0.15	0.065	mg/Kg	☼	07/15/17 04:42	07/17/17 20:30	20
Benzo[k]fluoranthene	**0.37**		0.15	0.051	mg/Kg	☼	07/15/17 04:42	07/17/17 20:30	20
Chrysene	**0.91**		0.15	0.058	mg/Kg	☼	07/15/17 04:42	07/17/17 20:30	20
Dibenz(a,h)anthracene	**0.22**		0.15	0.062	mg/Kg	☼	07/15/17 04:42	07/17/17 20:30	20
Dibenzofuran	**0.067**	**J**	0.74	0.059	mg/Kg	☼	07/15/17 04:42	07/17/17 20:30	20
1,4-Dioxane	ND		1.5	0.11	mg/Kg	☼	07/15/17 04:42	07/17/17 20:30	20
Fluoranthene	**2.0**		0.15	0.059	mg/Kg	☼	07/15/17 04:42	07/17/17 20:30	20
Fluorene	ND		0.15	0.053	mg/Kg	☼	07/15/17 04:42	07/17/17 20:30	20
Hexachlorobenzene	ND		0.15	0.060	mg/Kg	☼	07/15/17 04:42	07/17/17 20:30	20
Indeno[1,2,3-cd]pyrene	**0.79**		0.15	0.057	mg/Kg	☼	07/15/17 04:42	07/17/17 20:30	20
2-Methylphenol	ND		0.74	0.066	mg/Kg	☼	07/15/17 04:42	07/17/17 20:30	20
Methylphenol, 3 & 4	ND		0.74	0.066	mg/Kg	☼	07/15/17 04:42	07/17/17 20:30	20
Naphthalene	**0.14**	**J**	0.15	0.053	mg/Kg	☼	07/15/17 04:42	07/17/17 20:30	20
Pentachlorophenol	ND		3.8	1.4	mg/Kg	☼	07/15/17 04:42	07/17/17 20:30	20
Phenanthrene	**0.96**		0.15	0.062	mg/Kg	☼	07/15/17 04:42	07/17/17 20:30	20
Phenol	ND		0.74	0.10	mg/Kg	☼	07/15/17 04:42	07/17/17 20:30	20
Pyrene	**1.4**		0.15	0.066	mg/Kg	☼	07/15/17 04:42	07/17/17 20:30	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*56*		*42 - 100*	*07/15/17 04:42*	*07/17/17 20:30*	*20*
2-Fluorophenol (Surr)	*47*		*21 - 107*	*07/15/17 04:42*	*07/17/17 20:30*	*20*
Nitrobenzene-d5 (Surr)	*58*		*35 - 109*	*07/15/17 04:42*	*07/17/17 20:30*	*20*
Phenol-d5 (Surr)	*47*		*29 - 105*	*07/15/17 04:42*	*07/17/17 20:30*	*20*
Terphenyl-d14 (Surr)	*45*		*36 - 113*	*07/15/17 04:42*	*07/17/17 20:30*	*20*
2,4,6-Tribromophenol (Surr)	*44*		*20 - 134*	*07/15/17 04:42*	*07/17/17 20:30*	*20*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.018	0.0098	mg/Kg	☼	07/15/17 04:45	07/16/17 02:52	1
PCB-1221	ND		0.018	0.0096	mg/Kg	☼	07/15/17 04:45	07/16/17 02:52	1
PCB-1232	ND		0.018	0.0073	mg/Kg	☼	07/15/17 04:45	07/16/17 02:52	1
PCB-1242	ND		0.018	0.015	mg/Kg	☼	07/15/17 04:45	07/16/17 02:52	1
PCB-1248	**0.72**		0.018	0.0088	mg/Kg	☼	07/15/17 04:45	07/16/17 02:52	1
PCB-1254	**0.44**		0.018	0.0081	mg/Kg	☼	07/15/17 04:45	07/16/17 02:52	1
PCB-1260	**0.13**		0.018	0.012	mg/Kg	☼	07/15/17 04:45	07/16/17 02:52	1

Client Sample ID: DUP-6 — Lab Sample ID: 180-68140-31

Date Collected: 07/12/17 00:00 — **Matrix: Solid**
Date Received: 07/12/17 21:10 — **Percent Solids: 88.5**

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1262	ND		0.018	0.013	mg/Kg	☼	07/15/17 04:45	07/16/17 02:52	1
PCB-1268	ND		0.018	0.0056	mg/Kg	☼	07/15/17 04:45	07/16/17 02:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*79*		*23 - 150*	*07/15/17 04:45*	*07/16/17 02:52*	*1*
DCB Decachlorobiphenyl (Surr)	*85*		*23 - 150*	*07/15/17 04:45*	*07/16/17 02:52*	*1*
Tetrachloro-m-xylene (Surr)	*77*		*27 - 138*	*07/15/17 04:45*	*07/16/17 02:52*	*1*
Tetrachloro-m-xylene (Surr)	*80*		*27 - 138*	*07/15/17 04:45*	*07/16/17 02:52*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**6.2**		1.2	0.52	mg/Kg	☼	07/14/17 11:31	07/17/17 09:30	1
Barium	**75**		24	6.3	mg/Kg	☼	07/14/17 11:31	07/17/17 09:30	1
Beryllium	**0.32**	**J**	0.47	0.12	mg/Kg	☼	07/14/17 11:31	07/17/17 09:30	1
Cadmium	ND		0.59	0.13	mg/Kg	☼	07/14/17 11:31	07/17/17 09:30	1
Chromium	**7.7**		0.59	0.15	mg/Kg	☼	07/14/17 11:31	07/17/17 09:30	1
Copper	**19**		2.9	0.90	mg/Kg	☼	07/14/17 11:31	07/17/17 09:30	1
Lead	**33**		1.2	0.39	mg/Kg	☼	07/14/17 11:31	07/17/17 09:30	1
Manganese	**350**		1.8	0.48	mg/Kg	☼	07/14/17 11:31	07/17/17 09:30	1
Nickel	**14**		4.7	1.1	mg/Kg	☼	07/14/17 11:31	07/17/17 09:30	1
Selenium	ND		1.2	0.47	mg/Kg	☼	07/14/17 11:31	07/17/17 09:30	1
Silver	ND		0.59	0.20	mg/Kg	☼	07/14/17 11:31	07/17/17 09:30	1
Zinc	**63**		2.4	1.2	mg/Kg	☼	07/14/17 11:31	07/17/17 09:30	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.29**		0.040	0.0089	mg/Kg	☼	07/18/17 14:49	07/19/17 12:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**11.5**		0.1	0.1	%			07/14/17 14:00	1
Percent Solids	**88.5**		0.1	0.1	%			07/14/17 14:00	1
Cyanide, Total	ND		0.49	0.15	mg/Kg	☼	07/18/17 10:56	07/18/17 14:28	1

Client Sample ID: DUP-7 — Lab Sample ID: 180-68140-32

Date Collected: 07/12/17 00:00 — **Matrix: Solid**
Date Received: 07/12/17 21:10 — **Percent Solids: 92.5**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.016	0.0025	mg/Kg	☼	07/17/17 05:28	07/17/17 13:31	1
Benzene	ND		0.0039	0.0015	mg/Kg	☼	07/17/17 05:28	07/17/17 13:31	1
2-Butanone (MEK)	ND		0.0039	0.0023	mg/Kg	☼	07/17/17 05:28	07/17/17 13:31	1
Carbon tetrachloride	ND		0.0039	0.0026	mg/Kg	☼	07/17/17 05:28	07/17/17 13:31	1
Chlorobenzene	ND		0.0039	0.0012	mg/Kg	☼	07/17/17 05:28	07/17/17 13:31	1
Chloroform	ND		0.0039	0.0017	mg/Kg	☼	07/17/17 05:28	07/17/17 13:31	1
cis-1,2-Dichloroethene	ND		0.0039	0.0012	mg/Kg	☼	07/17/17 05:28	07/17/17 13:31	1
1,2-Dichlorobenzene	ND		0.0039	0.0032	mg/Kg	☼	07/17/17 05:28	07/17/17 13:31	1
1,3-Dichlorobenzene	ND		0.0039	0.0012	mg/Kg	☼	07/17/17 05:28	07/17/17 13:31	1
1,4-Dichlorobenzene	ND		0.0039	0.00080	mg/Kg	☼	07/17/17 05:28	07/17/17 13:31	1
1,1-Dichloroethane	ND		0.0039	0.0014	mg/Kg	☼	07/17/17 05:28	07/17/17 13:31	1

Client Sample ID: DUP-7

Lab Sample ID: 180-68140-32
Date Collected: 07/12/17 00:00
Matrix: Solid
Date Received: 07/12/17 21:10
Percent Solids: 92.5

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	ND		0.0039	0.0011	mg/Kg	☼	07/17/17 05:28	07/17/17 13:31	1
1,1-Dichloroethene	ND		0.0039	0.0022	mg/Kg	☼	07/17/17 05:28	07/17/17 13:31	1
Ethylbenzene	ND		0.0039	0.0017	mg/Kg	☼	07/17/17 05:28	07/17/17 13:31	1
Methylene Chloride	ND		0.0039	0.0018	mg/Kg	☼	07/17/17 05:28	07/17/17 13:31	1
Methyl tert-butyl ether	ND		0.0039	0.0029	mg/Kg	☼	07/17/17 05:28	07/17/17 13:31	1
n-Butylbenzene	ND		0.0039	0.0030	mg/Kg	☼	07/17/17 05:28	07/17/17 13:31	1
N-Propylbenzene	ND		0.0039	0.0017	mg/Kg	☼	07/17/17 05:28	07/17/17 13:31	1
sec-Butylbenzene	ND		0.0039	0.0019	mg/Kg	☼	07/17/17 05:28	07/17/17 13:31	1
tert-Butylbenzene	ND		0.0039	0.0014	mg/Kg	☼	07/17/17 05:28	07/17/17 13:31	1
Tetrachloroethene	ND		0.0039	0.0016	mg/Kg	☼	07/17/17 05:28	07/17/17 13:31	1
Toluene	ND		0.0039	0.0013	mg/Kg	☼	07/17/17 05:28	07/17/17 13:31	1
trans-1,2-Dichloroethene	ND		0.0039	0.0020	mg/Kg	☼	07/17/17 05:28	07/17/17 13:31	1
1,1,1-Trichloroethane	ND		0.0039	0.0020	mg/Kg	☼	07/17/17 05:28	07/17/17 13:31	1
Trichloroethene	ND		0.0039	0.0012	mg/Kg	☼	07/17/17 05:28	07/17/17 13:31	1
1,2,4-Trimethylbenzene	ND		0.0039	0.0011	mg/Kg	☼	07/17/17 05:28	07/17/17 13:31	1
1,3,5-Trimethylbenzene	ND		0.0039	0.0013	mg/Kg	☼	07/17/17 05:28	07/17/17 13:31	1
Vinyl chloride	ND		0.0039	0.0029	mg/Kg	☼	07/17/17 05:28	07/17/17 13:31	1
Xylenes, Total	ND		0.0078	0.0034	mg/Kg	☼	07/17/17 05:28	07/17/17 13:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*63 - 120*	*07/17/17 05:28*	*07/17/17 13:31*	*1*
Dibromofluoromethane (Surr)	*91*		*68 - 121*	*07/17/17 05:28*	*07/17/17 13:31*	*1*
1,2-Dichloroethane-d4 (Surr)	*85*		*52 - 124*	*07/17/17 05:28*	*07/17/17 13:31*	*1*
Toluene-d8 (Surr)	*115*		*72 - 127*	*07/17/17 05:28*	*07/17/17 13:31*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**7.5**		0.1	0.1	%			07/14/17 14:00	1
Percent Solids	**92.5**		0.1	0.1	%			07/14/17 14:00	1

Client Sample ID: DUP-8

Lab Sample ID: 180-68140-33
Date Collected: 07/12/17 00:00
Matrix: Solid
Date Received: 07/12/17 21:10
Percent Solids: 90.4

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.023	0.0036	mg/Kg	☼	07/17/17 05:28	07/17/17 13:54	1
Benzene	ND		0.0058	0.0023	mg/Kg	☼	07/17/17 05:28	07/17/17 13:54	1
2-Butanone (MEK)	ND		0.0058	0.0033	mg/Kg	☼	07/17/17 05:28	07/17/17 13:54	1
Carbon tetrachloride	ND		0.0058	0.0038	mg/Kg	☼	07/17/17 05:28	07/17/17 13:54	1
Chlorobenzene	ND		0.0058	0.0018	mg/Kg	☼	07/17/17 05:28	07/17/17 13:54	1
Chloroform	ND		0.0058	0.0024	mg/Kg	☼	07/17/17 05:28	07/17/17 13:54	1
cis-1,2-Dichloroethene	ND		0.0058	0.0018	mg/Kg	☼	07/17/17 05:28	07/17/17 13:54	1
1,2-Dichlorobenzene	ND		0.0058	0.0046	mg/Kg	☼	07/17/17 05:28	07/17/17 13:54	1
1,3-Dichlorobenzene	ND		0.0058	0.0018	mg/Kg	☼	07/17/17 05:28	07/17/17 13:54	1
1,4-Dichlorobenzene	ND		0.0058	0.0012	mg/Kg	☼	07/17/17 05:28	07/17/17 13:54	1
1,1-Dichloroethane	ND		0.0058	0.0021	mg/Kg	☼	07/17/17 05:28	07/17/17 13:54	1
1,2-Dichloroethane	ND		0.0058	0.0017	mg/Kg	☼	07/17/17 05:28	07/17/17 13:54	1
1,1-Dichloroethene	ND		0.0058	0.0033	mg/Kg	☼	07/17/17 05:28	07/17/17 13:54	1
Ethylbenzene	ND		0.0058	0.0025	mg/Kg	☼	07/17/17 05:28	07/17/17 13:54	1

Client Sample ID: DUP-8 — Lab Sample ID: 180-68140-33

Date Collected: 07/12/17 00:00 — **Matrix: Solid**
Date Received: 07/12/17 21:10 — **Percent Solids: 90.4**

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		0.0058	0.0027	mg/Kg	☼	07/17/17 05:28	07/17/17 13:54	1
Methyl tert-butyl ether	ND		0.0058	0.0042	mg/Kg	☼	07/17/17 05:28	07/17/17 13:54	1
n-Butylbenzene	ND		0.0058	0.0044	mg/Kg	☼	07/17/17 05:28	07/17/17 13:54	1
N-Propylbenzene	ND		0.0058	0.0024	mg/Kg	☼	07/17/17 05:28	07/17/17 13:54	1
sec-Butylbenzene	ND		0.0058	0.0028	mg/Kg	☼	07/17/17 05:28	07/17/17 13:54	1
tert-Butylbenzene	ND		0.0058	0.0021	mg/Kg	☼	07/17/17 05:28	07/17/17 13:54	1
Tetrachloroethene	ND		0.0058	0.0023	mg/Kg	☼	07/17/17 05:28	07/17/17 13:54	1
Toluene	ND		0.0058	0.0019	mg/Kg	☼	07/17/17 05:28	07/17/17 13:54	1
trans-1,2-Dichloroethene	ND		0.0058	0.0029	mg/Kg	☼	07/17/17 05:28	07/17/17 13:54	1
1,1,1-Trichloroethane	ND		0.0058	0.0029	mg/Kg	☼	07/17/17 05:28	07/17/17 13:54	1
Trichloroethene	ND		0.0058	0.0017	mg/Kg	☼	07/17/17 05:28	07/17/17 13:54	1
1,2,4-Trimethylbenzene	ND		0.0058	0.0016	mg/Kg	☼	07/17/17 05:28	07/17/17 13:54	1
1,3,5-Trimethylbenzene	ND		0.0058	0.0020	mg/Kg	☼	07/17/17 05:28	07/17/17 13:54	1
Vinyl chloride	ND		0.0058	0.0042	mg/Kg	☼	07/17/17 05:28	07/17/17 13:54	1
Xylenes, Total	ND		0.012	0.0050	mg/Kg	☼	07/17/17 05:28	07/17/17 13:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*63 - 120*	*07/17/17 05:28*	*07/17/17 13:54*	*1*
Dibromofluoromethane (Surr)	*88*		*68 - 121*	*07/17/17 05:28*	*07/17/17 13:54*	*1*
1,2-Dichloroethane-d4 (Surr)	*81*		*52 - 124*	*07/17/17 05:28*	*07/17/17 13:54*	*1*
Toluene-d8 (Surr)	*109*		*72 - 127*	*07/17/17 05:28*	*07/17/17 13:54*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.6**		0.1	0.1	%			07/14/17 14:00	1
Percent Solids	**90.4**		0.1	0.1	%			07/14/17 14:00	1

Client Sample ID: TRIP BLANK 1 — Lab Sample ID: 180-68140-34

Date Collected: 07/12/17 00:00 — **Matrix: Water**
Date Received: 07/12/17 21:10

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**4.0**	**J**	5.0	3.1	ug/L			07/19/17 12:28	1
Benzene	ND		1.0	0.18	ug/L			07/19/17 12:28	1
2-Butanone (MEK)	ND		5.0	2.6	ug/L			07/19/17 12:28	1
Carbon tetrachloride	ND		1.0	0.56	ug/L			07/19/17 12:28	1
Chlorobenzene	ND		1.0	0.15	ug/L			07/19/17 12:28	1
Chloroform	ND		1.0	0.27	ug/L			07/19/17 12:28	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			07/19/17 12:28	1
1,2-Dichlorobenzene	ND		1.0	0.23	ug/L			07/19/17 12:28	1
1,3-Dichlorobenzene	ND		1.0	0.21	ug/L			07/19/17 12:28	1
1,4-Dichlorobenzene	ND		1.0	0.24	ug/L			07/19/17 12:28	1
1,1-Dichloroethane	ND		1.0	0.34	ug/L			07/19/17 12:28	1
1,2-Dichloroethane	ND		1.0	0.24	ug/L			07/19/17 12:28	1
1,1-Dichloroethene	ND		1.0	0.32	ug/L			07/19/17 12:28	1
Ethylbenzene	ND		1.0	0.25	ug/L			07/19/17 12:28	1
Methylene Chloride	ND		1.0	0.94	ug/L			07/19/17 12:28	1
Methyl tert-butyl ether	ND		1.0	0.20	ug/L			07/19/17 12:28	1
n-Butylbenzene	ND		1.0	0.22	ug/L			07/19/17 12:28	1

Client Sample ID: TRIP BLANK 1

Lab Sample ID: 180-68140-34
Matrix: Water
Date Collected: 07/12/17 00:00
Date Received: 07/12/17 21:10

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		1.0	0.20	ug/L			07/19/17 12:28	1
sec-Butylbenzene	ND		1.0	0.22	ug/L			07/19/17 12:28	1
tert-Butylbenzene	ND		1.0	0.17	ug/L			07/19/17 12:28	1
Tetrachloroethene	ND		1.0	0.24	ug/L			07/19/17 12:28	1
Toluene	ND		1.0	0.16	ug/L			07/19/17 12:28	1
trans-1,2-Dichloroethene	ND		1.0	0.20	ug/L			07/19/17 12:28	1
1,1,1-Trichloroethane	ND		1.0	0.27	ug/L			07/19/17 12:28	1
Trichloroethene	ND		1.0	0.20	ug/L			07/19/17 12:28	1
1,2,4-Trimethylbenzene	ND		1.0	0.18	ug/L			07/19/17 12:28	1
1,3,5-Trimethylbenzene	ND		1.0	0.17	ug/L			07/19/17 12:28	1
Vinyl chloride	ND		1.0	0.17	ug/L			07/19/17 12:28	1
Xylenes, Total	ND		2.0	0.27	ug/L			07/19/17 12:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*72 - 120*		*07/19/17 12:28*	*1*
Dibromofluoromethane (Surr)	*91*		*77 - 127*		*07/19/17 12:28*	*1*
1,2-Dichloroethane-d4 (Surr)	*76*		*72 - 134*		*07/19/17 12:28*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*		*07/19/17 12:28*	*1*

Client Sample ID: TRIP BLANK 2

Lab Sample ID: 180-68140-35
Matrix: Water
Date Collected: 07/12/17 00:00
Date Received: 07/12/17 21:10

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	4.8	J	5.0	3.1	ug/L			07/19/17 12:52	1
Benzene	ND		1.0	0.18	ug/L			07/19/17 12:52	1
2-Butanone (MEK)	ND		5.0	2.6	ug/L			07/19/17 12:52	1
Carbon tetrachloride	ND		1.0	0.56	ug/L			07/19/17 12:52	1
Chlorobenzene	ND		1.0	0.15	ug/L			07/19/17 12:52	1
Chloroform	ND		1.0	0.27	ug/L			07/19/17 12:52	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			07/19/17 12:52	1
1,2-Dichlorobenzene	ND		1.0	0.23	ug/L			07/19/17 12:52	1
1,3-Dichlorobenzene	ND		1.0	0.21	ug/L			07/19/17 12:52	1
1,4-Dichlorobenzene	ND		1.0	0.24	ug/L			07/19/17 12:52	1
1,1-Dichloroethane	ND		1.0	0.34	ug/L			07/19/17 12:52	1
1,2-Dichloroethane	ND		1.0	0.24	ug/L			07/19/17 12:52	1
1,1-Dichloroethene	ND		1.0	0.32	ug/L			07/19/17 12:52	1
Ethylbenzene	ND		1.0	0.25	ug/L			07/19/17 12:52	1
Methylene Chloride	ND		1.0	0.94	ug/L			07/19/17 12:52	1
Methyl tert-butyl ether	ND		1.0	0.20	ug/L			07/19/17 12:52	1
n-Butylbenzene	ND		1.0	0.22	ug/L			07/19/17 12:52	1
N-Propylbenzene	ND		1.0	0.20	ug/L			07/19/17 12:52	1
sec-Butylbenzene	ND		1.0	0.22	ug/L			07/19/17 12:52	1
tert-Butylbenzene	ND		1.0	0.17	ug/L			07/19/17 12:52	1
Tetrachloroethene	ND		1.0	0.24	ug/L			07/19/17 12:52	1
Toluene	ND		1.0	0.16	ug/L			07/19/17 12:52	1
trans-1,2-Dichloroethene	ND		1.0	0.20	ug/L			07/19/17 12:52	1
1,1,1-Trichloroethane	ND		1.0	0.27	ug/L			07/19/17 12:52	1
Trichloroethene	ND		1.0	0.20	ug/L			07/19/17 12:52	1

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68140-1

Client Sample ID: TRIP BLANK 2
Date Collected: 07/12/17 00:00
Date Received: 07/12/17 21:10

Lab Sample ID: 180-68140-35
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	ND		1.0	0.18	ug/L			07/19/17 12:52	1
1,3,5-Trimethylbenzene	ND		1.0	0.17	ug/L			07/19/17 12:52	1
Vinyl chloride	ND		1.0	0.17	ug/L			07/19/17 12:52	1
Xylenes, Total	ND		2.0	0.27	ug/L			07/19/17 12:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*72 - 120*		*07/19/17 12:52*	*1*
Dibromofluoromethane (Surr)	*92*		*77 - 127*		*07/19/17 12:52*	*1*
1,2-Dichloroethane-d4 (Surr)	*76*		*72 - 134*		*07/19/17 12:52*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*07/19/17 12:52*	*1*

Method: 8260C - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 180-217455/5
Matrix: Water
Analysis Batch: 217455

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		5.0	3.1	ug/L			07/19/17 12:04	1
Benzene	ND		1.0	0.18	ug/L			07/19/17 12:04	1
2-Butanone (MEK)	ND		5.0	2.6	ug/L			07/19/17 12:04	1
Carbon tetrachloride	ND		1.0	0.56	ug/L			07/19/17 12:04	1
Chlorobenzene	ND		1.0	0.15	ug/L			07/19/17 12:04	1
Chloroform	ND		1.0	0.27	ug/L			07/19/17 12:04	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			07/19/17 12:04	1
1,2-Dichlorobenzene	ND		1.0	0.23	ug/L			07/19/17 12:04	1
1,3-Dichlorobenzene	ND		1.0	0.21	ug/L			07/19/17 12:04	1
1,4-Dichlorobenzene	ND		1.0	0.24	ug/L			07/19/17 12:04	1
1,1-Dichloroethane	ND		1.0	0.34	ug/L			07/19/17 12:04	1
1,2-Dichloroethane	ND		1.0	0.24	ug/L			07/19/17 12:04	1
1,1-Dichloroethene	ND		1.0	0.32	ug/L			07/19/17 12:04	1
Ethylbenzene	ND		1.0	0.25	ug/L			07/19/17 12:04	1
Methylene Chloride	ND		1.0	0.94	ug/L			07/19/17 12:04	1
Methyl tert-butyl ether	ND		1.0	0.20	ug/L			07/19/17 12:04	1
n-Butylbenzene	ND		1.0	0.22	ug/L			07/19/17 12:04	1
N-Propylbenzene	ND		1.0	0.20	ug/L			07/19/17 12:04	1
sec-Butylbenzene	ND		1.0	0.22	ug/L			07/19/17 12:04	1
tert-Butylbenzene	ND		1.0	0.17	ug/L			07/19/17 12:04	1
Tetrachloroethene	ND		1.0	0.24	ug/L			07/19/17 12:04	1
Toluene	ND		1.0	0.16	ug/L			07/19/17 12:04	1
trans-1,2-Dichloroethene	ND		1.0	0.20	ug/L			07/19/17 12:04	1
1,1,1-Trichloroethane	ND		1.0	0.27	ug/L			07/19/17 12:04	1
Trichloroethene	ND		1.0	0.20	ug/L			07/19/17 12:04	1
1,2,4-Trimethylbenzene	ND		1.0	0.18	ug/L			07/19/17 12:04	1
1,3,5-Trimethylbenzene	ND		1.0	0.17	ug/L			07/19/17 12:04	1
Vinyl chloride	ND		1.0	0.17	ug/L			07/19/17 12:04	1
Xylenes, Total	ND		2.0	0.27	ug/L			07/19/17 12:04	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*72 - 120*		*07/19/17 12:04*	*1*
Dibromofluoromethane (Surr)	*93*		*77 - 127*		*07/19/17 12:04*	*1*
1,2-Dichloroethane-d4 (Surr)	*79*		*72 - 134*		*07/19/17 12:04*	*1*
Toluene-d8 (Surr)	*93*		*80 - 120*		*07/19/17 12:04*	*1*

Lab Sample ID: LCS 180-217455/3
Matrix: Water
Analysis Batch: 217455

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	20.0	16.4		ug/L		82	10 - 150
Benzene	10.0	9.04		ug/L		90	80 - 121
2-Butanone (MEK)	20.0	16.0		ug/L		80	41 - 150
Carbon tetrachloride	10.0	11.5		ug/L		115	59 - 145
Chlorobenzene	10.0	8.62		ug/L		86	80 - 120
Chloroform	10.0	9.01		ug/L		90	78 - 122
cis-1,2-Dichloroethene	10.0	9.30		ug/L		93	80 - 120

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 180-217455/3
Matrix: Water
Analysis Batch: 217455

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichlorobenzene	10.0	8.18		ug/L		82	80 - 120
1,3-Dichlorobenzene	10.0	8.10		ug/L		81	80 - 120
1,4-Dichlorobenzene	10.0	8.17		ug/L		82	80 - 120
1,1-Dichloroethane	10.0	8.66		ug/L		87	76 - 126
1,2-Dichloroethane	10.0	7.52		ug/L		75	72 - 126
1,1-Dichloroethene	10.0	8.93		ug/L		89	71 - 122
Ethylbenzene	10.0	8.85		ug/L		89	80 - 123
Methylene Chloride	10.0	8.57		ug/L		86	71 - 129
Methyl tert-butyl ether	10.0	8.42		ug/L		84	68 - 124
n-Butylbenzene	10.0	8.83		ug/L		88	75 - 120
N-Propylbenzene	10.0	7.80		ug/L		78	78 - 121
sec-Butylbenzene	10.0	8.56		ug/L		86	80 - 121
tert-Butylbenzene	10.0	8.09		ug/L		81	79 - 120
Tetrachloroethene	10.0	8.91		ug/L		89	80 - 122
Toluene	10.0	9.03		ug/L		90	80 - 125
trans-1,2-Dichloroethene	10.0	8.96		ug/L		90	80 - 121
1,1,1-Trichloroethane	10.0	10.3		ug/L		103	57 - 128
Trichloroethene	10.0	8.66		ug/L		87	79 - 120
1,2,4-Trimethylbenzene	10.0	8.18		ug/L		82	80 - 120
1,3,5-Trimethylbenzene	10.0	8.35		ug/L		84	80 - 122
Vinyl chloride	10.0	10.7		ug/L		107	61 - 138
Xylenes, Total	20.0	17.7		ug/L		88	80 - 123

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*94*		*72 - 120*
Dibromofluoromethane (Surr)	*93*		*77 - 127*
1,2-Dichloroethane-d4 (Surr)	*76*		*72 - 134*
Toluene-d8 (Surr)	*94*		*80 - 120*

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 180-217186/9
Matrix: Solid
Analysis Batch: 217186

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.020	0.0032	mg/Kg			07/16/17 11:34	1
Benzene	ND		0.0050	0.0020	mg/Kg			07/16/17 11:34	1
2-Butanone (MEK)	ND		0.0050	0.0029	mg/Kg			07/16/17 11:34	1
Carbon tetrachloride	ND		0.0050	0.0033	mg/Kg			07/16/17 11:34	1
Chlorobenzene	ND		0.0050	0.0016	mg/Kg			07/16/17 11:34	1
Chloroform	ND		0.0050	0.0021	mg/Kg			07/16/17 11:34	1
cis-1,2-Dichloroethene	ND		0.0050	0.0016	mg/Kg			07/16/17 11:34	1
1,2-Dichlorobenzene	ND		0.0050	0.0040	mg/Kg			07/16/17 11:34	1
1,3-Dichlorobenzene	ND		0.0050	0.0016	mg/Kg			07/16/17 11:34	1
1,4-Dichlorobenzene	ND		0.0050	0.0010	mg/Kg			07/16/17 11:34	1
1,1-Dichloroethane	ND		0.0050	0.0018	mg/Kg			07/16/17 11:34	1
1,2-Dichloroethane	ND		0.0050	0.0015	mg/Kg			07/16/17 11:34	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 180-217186/9
Matrix: Solid
Analysis Batch: 217186

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		0.0050	0.0029	mg/Kg			07/16/17 11:34	1
Ethylbenzene	ND		0.0050	0.0022	mg/Kg			07/16/17 11:34	1
Methylene Chloride	ND		0.0050	0.0024	mg/Kg			07/16/17 11:34	1
Methyl tert-butyl ether	ND		0.0050	0.0037	mg/Kg			07/16/17 11:34	1
n-Butylbenzene	ND		0.0050	0.0038	mg/Kg			07/16/17 11:34	1
N-Propylbenzene	ND		0.0050	0.0021	mg/Kg			07/16/17 11:34	1
sec-Butylbenzene	ND		0.0050	0.0024	mg/Kg			07/16/17 11:34	1
tert-Butylbenzene	ND		0.0050	0.0018	mg/Kg			07/16/17 11:34	1
Tetrachloroethene	ND		0.0050	0.0020	mg/Kg			07/16/17 11:34	1
Toluene	ND		0.0050	0.0017	mg/Kg			07/16/17 11:34	1
trans-1,2-Dichloroethene	ND		0.0050	0.0025	mg/Kg			07/16/17 11:34	1
1,1,1-Trichloroethane	ND		0.0050	0.0025	mg/Kg			07/16/17 11:34	1
Trichloroethene	ND		0.0050	0.0015	mg/Kg			07/16/17 11:34	1
1,2,4-Trimethylbenzene	ND		0.0050	0.0013	mg/Kg			07/16/17 11:34	1
1,3,5-Trimethylbenzene	ND		0.0050	0.0017	mg/Kg			07/16/17 11:34	1
Vinyl chloride	ND		0.0050	0.0037	mg/Kg			07/16/17 11:34	1
Xylenes, Total	ND		0.010	0.0043	mg/Kg			07/16/17 11:34	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*63 - 120*		*07/16/17 11:34*	*1*
Dibromofluoromethane (Surr)	*95*		*68 - 121*		*07/16/17 11:34*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*52 - 124*		*07/16/17 11:34*	*1*
Toluene-d8 (Surr)	*110*		*72 - 127*		*07/16/17 11:34*	*1*

Lab Sample ID: LCS 180-217186/4
Matrix: Solid
Analysis Batch: 217186

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0400	0.0423		mg/Kg		106	20 - 150
Benzene	0.0400	0.0398		mg/Kg		100	77 - 120
2-Butanone (MEK)	0.0400	0.0368		mg/Kg		92	35 - 149
Carbon tetrachloride	0.0400	0.0365		mg/Kg		91	69 - 122
Chlorobenzene	0.0400	0.0379		mg/Kg		95	79 - 120
Chloroform	0.0400	0.0383		mg/Kg		96	72 - 120
cis-1,2-Dichloroethene	0.0400	0.0378		mg/Kg		94	80 - 118
1,2-Dichlorobenzene	0.0400	0.0386		mg/Kg		96	71 - 124
1,3-Dichlorobenzene	0.0400	0.0389		mg/Kg		97	75 - 118
1,4-Dichlorobenzene	0.0400	0.0387		mg/Kg		97	77 - 116
1,1-Dichloroethane	0.0400	0.0415		mg/Kg		104	66 - 124
1,2-Dichloroethane	0.0400	0.0367		mg/Kg		92	61 - 127
1,1-Dichloroethene	0.0400	0.0378		mg/Kg		95	59 - 129
Ethylbenzene	0.0400	0.0387		mg/Kg		97	78 - 125
Methylene Chloride	0.0400	0.0355		mg/Kg		89	58 - 127
Methyl tert-butyl ether	0.0400	0.0366		mg/Kg		92	48 - 132
n-Butylbenzene	0.0400	0.0429		mg/Kg		107	59 - 145
N-Propylbenzene	0.0400	0.0385		mg/Kg		96	80 - 120
sec-Butylbenzene	0.0400	0.0420		mg/Kg		105	70 - 130

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 180-217186/4
Matrix: Solid
Analysis Batch: 217186

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
tert-Butylbenzene			0.0400	0.0399		mg/Kg		100	74 - 133		
Tetrachloroethene			0.0400	0.0393		mg/Kg		98	78 - 129		
Toluene			0.0400	0.0414		mg/Kg		104	78 - 124		
trans-1,2-Dichloroethene			0.0400	0.0386		mg/Kg		97	77 - 121		
1,1,1-Trichloroethane			0.0400	0.0403		mg/Kg		101	67 - 126		
Trichloroethene			0.0400	0.0381		mg/Kg		95	76 - 119		
1,2,4-Trimethylbenzene			0.0400	0.0407		mg/Kg		102	80 - 121		
1,3,5-Trimethylbenzene			0.0400	0.0411		mg/Kg		103	68 - 133		
Vinyl chloride			0.0400	0.0482		mg/Kg		121	63 - 124		
Xylenes, Total			0.0800	0.0771		mg/Kg		96	83 - 126		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*63 - 120*
Dibromofluoromethane (Surr)	*95*		*68 - 121*
1,2-Dichloroethane-d4 (Surr)	*94*		*52 - 124*
Toluene-d8 (Surr)	*106*		*72 - 127*

Lab Sample ID: LCSD 180-217186/5
Matrix: Solid
Analysis Batch: 217186

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone			0.0400	0.0423		mg/Kg		106	20 - 150	0	40
Benzene			0.0400	0.0396		mg/Kg		99	77 - 120	1	20
2-Butanone (MEK)			0.0400	0.0414		mg/Kg		103	35 - 149	12	36
Carbon tetrachloride			0.0400	0.0359		mg/Kg		90	69 - 122	2	22
Chlorobenzene			0.0400	0.0384		mg/Kg		96	79 - 120	1	20
Chloroform			0.0400	0.0379		mg/Kg		95	72 - 120	1	25
cis-1,2-Dichloroethene			0.0400	0.0379		mg/Kg		95	80 - 118	0	20
1,2-Dichlorobenzene			0.0400	0.0389		mg/Kg		97	71 - 124	1	22
1,3-Dichlorobenzene			0.0400	0.0389		mg/Kg		97	75 - 118	0	20
1,4-Dichlorobenzene			0.0400	0.0388		mg/Kg		97	77 - 116	0	20
1,1-Dichloroethane			0.0400	0.0417		mg/Kg		104	66 - 124	1	23
1,2-Dichloroethane			0.0400	0.0375		mg/Kg		94	61 - 127	2	23
1,1-Dichloroethene			0.0400	0.0392		mg/Kg		98	59 - 129	4	25
Ethylbenzene			0.0400	0.0381		mg/Kg		95	78 - 125	1	21
Methylene Chloride			0.0400	0.0361		mg/Kg		90	58 - 127	2	28
Methyl tert-butyl ether			0.0400	0.0373		mg/Kg		93	48 - 132	2	36
n-Butylbenzene			0.0400	0.0427		mg/Kg		107	59 - 145	0	24
N-Propylbenzene			0.0400	0.0384		mg/Kg		96	80 - 120	0	20
sec-Butylbenzene			0.0400	0.0418		mg/Kg		104	70 - 130	1	21
tert-Butylbenzene			0.0400	0.0395		mg/Kg		99	74 - 133	1	22
Tetrachloroethene			0.0400	0.0394		mg/Kg		98	78 - 129	0	20
Toluene			0.0400	0.0411		mg/Kg		103	78 - 124	1	21
trans-1,2-Dichloroethene			0.0400	0.0389		mg/Kg		97	77 - 121	1	20
1,1,1-Trichloroethane			0.0400	0.0389		mg/Kg		97	67 - 126	4	31
Trichloroethene			0.0400	0.0381		mg/Kg		95	76 - 119	0	21
1,2,4-Trimethylbenzene			0.0400	0.0405		mg/Kg		101	80 - 121	1	20

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 180-217186/5
Matrix: Solid
Analysis Batch: 217186

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,3,5-Trimethylbenzene			0.0400	0.0406		mg/Kg		102	68 - 133	1	21
Vinyl chloride			0.0400	0.0486		mg/Kg		122	63 - 124	1	27
Xylenes, Total			0.0800	0.0769		mg/Kg		96	83 - 126	0	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*105*		*63 - 120*
Dibromofluoromethane (Surr)	*102*		*68 - 121*
1,2-Dichloroethane-d4 (Surr)	*100*		*52 - 124*
Toluene-d8 (Surr)	*111*		*72 - 127*

Lab Sample ID: MB 180-217209/11
Matrix: Solid
Analysis Batch: 217209

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.020	0.0032	mg/Kg			07/17/17 10:30	1
Benzene	ND		0.0050	0.0020	mg/Kg			07/17/17 10:30	1
2-Butanone (MEK)	ND		0.0050	0.0029	mg/Kg			07/17/17 10:30	1
Carbon tetrachloride	ND		0.0050	0.0033	mg/Kg			07/17/17 10:30	1
Chlorobenzene	ND		0.0050	0.0016	mg/Kg			07/17/17 10:30	1
Chloroform	ND		0.0050	0.0021	mg/Kg			07/17/17 10:30	1
cis-1,2-Dichloroethene	ND		0.0050	0.0016	mg/Kg			07/17/17 10:30	1
1,2-Dichlorobenzene	ND		0.0050	0.0040	mg/Kg			07/17/17 10:30	1
1,3-Dichlorobenzene	ND		0.0050	0.0016	mg/Kg			07/17/17 10:30	1
1,4-Dichlorobenzene	ND		0.0050	0.0010	mg/Kg			07/17/17 10:30	1
1,1-Dichloroethane	ND		0.0050	0.0018	mg/Kg			07/17/17 10:30	1
1,2-Dichloroethane	ND		0.0050	0.0015	mg/Kg			07/17/17 10:30	1
1,1-Dichloroethene	ND		0.0050	0.0029	mg/Kg			07/17/17 10:30	1
Ethylbenzene	ND		0.0050	0.0022	mg/Kg			07/17/17 10:30	1
Methylene Chloride	ND		0.0050	0.0024	mg/Kg			07/17/17 10:30	1
Methyl tert-butyl ether	ND		0.0050	0.0037	mg/Kg			07/17/17 10:30	1
n-Butylbenzene	ND		0.0050	0.0038	mg/Kg			07/17/17 10:30	1
N-Propylbenzene	ND		0.0050	0.0021	mg/Kg			07/17/17 10:30	1
sec-Butylbenzene	ND		0.0050	0.0024	mg/Kg			07/17/17 10:30	1
tert-Butylbenzene	ND		0.0050	0.0018	mg/Kg			07/17/17 10:30	1
Tetrachloroethene	ND		0.0050	0.0020	mg/Kg			07/17/17 10:30	1
Toluene	ND		0.0050	0.0017	mg/Kg			07/17/17 10:30	1
trans-1,2-Dichloroethene	ND		0.0050	0.0025	mg/Kg			07/17/17 10:30	1
1,1,1-Trichloroethane	ND		0.0050	0.0025	mg/Kg			07/17/17 10:30	1
Trichloroethene	ND		0.0050	0.0015	mg/Kg			07/17/17 10:30	1
1,2,4-Trimethylbenzene	ND		0.0050	0.0013	mg/Kg			07/17/17 10:30	1
1,3,5-Trimethylbenzene	ND		0.0050	0.0017	mg/Kg			07/17/17 10:30	1
Vinyl chloride	ND		0.0050	0.0037	mg/Kg			07/17/17 10:30	1
Xylenes, Total	ND		0.010	0.0043	mg/Kg			07/17/17 10:30	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*63 - 120*		*07/17/17 10:30*	*1*

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 180-217209/11
Matrix: Solid
Analysis Batch: 217209

Client Sample ID: Method Blank
Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	91		68 - 121		07/17/17 10:30	1
1,2-Dichloroethane-d4 (Surr)	99		52 - 124		07/17/17 10:30	1
Toluene-d8 (Surr)	106		72 - 127		07/17/17 10:30	1

Lab Sample ID: LCS 180-217209/4
Matrix: Solid
Analysis Batch: 217209

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0400	0.0410		mg/Kg		103	20 - 150
Benzene	0.0400	0.0372		mg/Kg		93	77 - 120
2-Butanone (MEK)	0.0400	0.0368		mg/Kg		92	35 - 149
Carbon tetrachloride	0.0400	0.0320		mg/Kg		80	69 - 122
Chlorobenzene	0.0400	0.0361		mg/Kg		90	79 - 120
Chloroform	0.0400	0.0353		mg/Kg		88	72 - 120
cis-1,2-Dichloroethene	0.0400	0.0351		mg/Kg		88	80 - 118
1,2-Dichlorobenzene	0.0400	0.0369		mg/Kg		92	71 - 124
1,3-Dichlorobenzene	0.0400	0.0365		mg/Kg		91	75 - 118
1,4-Dichlorobenzene	0.0400	0.0364		mg/Kg		91	77 - 116
1,1-Dichloroethane	0.0400	0.0384		mg/Kg		96	66 - 124
1,2-Dichloroethane	0.0400	0.0348		mg/Kg		87	61 - 127
1,1-Dichloroethene	0.0400	0.0355		mg/Kg		89	59 - 129
Ethylbenzene	0.0400	0.0356		mg/Kg		89	78 - 125
Methylene Chloride	0.0400	0.0330		mg/Kg		82	58 - 127
Methyl tert-butyl ether	0.0400	0.0339		mg/Kg		85	48 - 132
n-Butylbenzene	0.0400	0.0398		mg/Kg		100	59 - 145
N-Propylbenzene	0.0400	0.0360		mg/Kg		90	80 - 120
sec-Butylbenzene	0.0400	0.0387		mg/Kg		97	70 - 130
tert-Butylbenzene	0.0400	0.0375		mg/Kg		94	74 - 133
Tetrachloroethene	0.0400	0.0369		mg/Kg		92	78 - 129
Toluene	0.0400	0.0392		mg/Kg		98	78 - 124
trans-1,2-Dichloroethene	0.0400	0.0360		mg/Kg		90	77 - 121
1,1,1-Trichloroethane	0.0400	0.0347		mg/Kg		87	67 - 126
Trichloroethene	0.0400	0.0350		mg/Kg		87	76 - 119
1,2,4-Trimethylbenzene	0.0400	0.0380		mg/Kg		95	80 - 121
1,3,5-Trimethylbenzene	0.0400	0.0380		mg/Kg		95	68 - 133
Vinyl chloride	0.0400	0.0455		mg/Kg		114	63 - 124
Xylenes, Total	0.0800	0.0729		mg/Kg		91	83 - 126

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		63 - 120
Dibromofluoromethane (Surr)	93		68 - 121
1,2-Dichloroethane-d4 (Surr)	93		52 - 124
Toluene-d8 (Surr)	105		72 - 127

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Lab Sample ID: MB 180-217139/1-A
Matrix: Solid
Analysis Batch: 217155

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 217139

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0067	0.0022	mg/Kg		07/15/17 04:42	07/15/17 10:59	1
Acenaphthylene	ND		0.0067	0.0023	mg/Kg		07/15/17 04:42	07/15/17 10:59	1
Anthracene	ND		0.0067	0.0025	mg/Kg		07/15/17 04:42	07/15/17 10:59	1
Benzo[a]anthracene	ND		0.0067	0.0026	mg/Kg		07/15/17 04:42	07/15/17 10:59	1
Benzo[a]pyrene	ND		0.0067	0.0028	mg/Kg		07/15/17 04:42	07/15/17 10:59	1
Benzo[b]fluoranthene	ND		0.0067	0.0029	mg/Kg		07/15/17 04:42	07/15/17 10:59	1
Benzo[g,h,i]perylene	ND		0.0067	0.0029	mg/Kg		07/15/17 04:42	07/15/17 10:59	1
Benzo[k]fluoranthene	ND		0.0067	0.0023	mg/Kg		07/15/17 04:42	07/15/17 10:59	1
Chrysene	ND		0.0067	0.0026	mg/Kg		07/15/17 04:42	07/15/17 10:59	1
Dibenz(a,h)anthracene	ND		0.0067	0.0028	mg/Kg		07/15/17 04:42	07/15/17 10:59	1
Dibenzofuran	ND		0.033	0.0027	mg/Kg		07/15/17 04:42	07/15/17 10:59	1
1,4-Dioxane	ND		0.067	0.0050	mg/Kg		07/15/17 04:42	07/15/17 10:59	1
Fluoranthene	ND		0.0067	0.0026	mg/Kg		07/15/17 04:42	07/15/17 10:59	1
Fluorene	ND		0.0067	0.0024	mg/Kg		07/15/17 04:42	07/15/17 10:59	1
Hexachlorobenzene	ND		0.0067	0.0027	mg/Kg		07/15/17 04:42	07/15/17 10:59	1
Indeno[1,2,3-cd]pyrene	ND		0.0067	0.0026	mg/Kg		07/15/17 04:42	07/15/17 10:59	1
2-Methylphenol	ND		0.033	0.0029	mg/Kg		07/15/17 04:42	07/15/17 10:59	1
Methylphenol, 3 & 4	ND		0.033	0.0030	mg/Kg		07/15/17 04:42	07/15/17 10:59	1
Naphthalene	ND		0.0067	0.0024	mg/Kg		07/15/17 04:42	07/15/17 10:59	1
Pentachlorophenol	ND		0.17	0.063	mg/Kg		07/15/17 04:42	07/15/17 10:59	1
Phenanthrene	ND		0.0067	0.0028	mg/Kg		07/15/17 04:42	07/15/17 10:59	1
Phenol	ND		0.033	0.0045	mg/Kg		07/15/17 04:42	07/15/17 10:59	1
Pyrene	ND		0.0067	0.0030	mg/Kg		07/15/17 04:42	07/15/17 10:59	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*82*		*42 - 100*	*07/15/17 04:42*	*07/15/17 10:59*	*1*
2-Fluorophenol (Surr)	*75*		*21 - 107*	*07/15/17 04:42*	*07/15/17 10:59*	*1*
Nitrobenzene-d5 (Surr)	*82*		*35 - 109*	*07/15/17 04:42*	*07/15/17 10:59*	*1*
Phenol-d5 (Surr)	*68*		*29 - 105*	*07/15/17 04:42*	*07/15/17 10:59*	*1*
Terphenyl-d14 (Surr)	*86*		*36 - 113*	*07/15/17 04:42*	*07/15/17 10:59*	*1*
2,4,6-Tribromophenol (Surr)	*77*		*20 - 134*	*07/15/17 04:42*	*07/15/17 10:59*	*1*

Lab Sample ID: LCS 180-217139/2-A
Matrix: Solid
Analysis Batch: 217155

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 217139

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	0.667	0.531		mg/Kg		80	39 - 100
Acenaphthylene	0.667	0.513		mg/Kg		77	42 - 100
Anthracene	0.667	0.587		mg/Kg		88	43 - 100
Benzo[a]anthracene	0.667	0.572		mg/Kg		86	43 - 100
Benzo[a]pyrene	0.667	0.551		mg/Kg		83	43 - 100
Benzo[b]fluoranthene	0.667	0.523		mg/Kg		78	40 - 100
Benzo[g,h,i]perylene	0.667	0.540		mg/Kg		81	41 - 102
Benzo[k]fluoranthene	0.667	0.528		mg/Kg		79	44 - 100
Chrysene	0.667	0.545		mg/Kg		82	44 - 100
Dibenz(a,h)anthracene	0.667	0.547		mg/Kg		82	40 - 104
Dibenzofuran	0.667	0.506		mg/Kg		76	42 - 100

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCS 180-217139/2-A
Matrix: Solid
Analysis Batch: 217155

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 217139

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	0.667	0.547		mg/Kg		82	19 - 107
Fluoranthene	0.667	0.592		mg/Kg		89	41 - 104
Fluorene	0.667	0.538		mg/Kg		81	41 - 100
Hexachlorobenzene	0.667	0.626		mg/Kg		94	43 - 100
Indeno[1,2,3-cd]pyrene	0.667	0.555		mg/Kg		83	41 - 104
2-Methylphenol	0.667	0.460		mg/Kg		69	38 - 100
Methylphenol, 3 & 4	0.667	0.435		mg/Kg		65	40 - 100
Naphthalene	0.667	0.467		mg/Kg		70	38 - 100
Pentachlorophenol	1.33	0.863		mg/Kg		65	34 - 102
Phenanthrene	0.667	0.563		mg/Kg		84	41 - 100
Phenol	0.667	0.430		mg/Kg		65	36 - 100
Pyrene	0.667	0.540		mg/Kg		81	42 - 100

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*74*		*42 - 100*
2-Fluorophenol (Surr)	*68*		*21 - 107*
Nitrobenzene-d5 (Surr)	*67*		*35 - 109*
Phenol-d5 (Surr)	*59*		*29 - 105*
Terphenyl-d14 (Surr)	*78*		*36 - 113*
2,4,6-Tribromophenol (Surr)	*79*		*20 - 134*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 180-217140/1-C
Matrix: Solid
Analysis Batch: 217178

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 217140

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.017	0.0088	mg/Kg		07/15/17 04:45	07/15/17 18:13	1
PCB-1221	ND		0.017	0.0086	mg/Kg		07/15/17 04:45	07/15/17 18:13	1
PCB-1232	ND		0.017	0.0066	mg/Kg		07/15/17 04:45	07/15/17 18:13	1
PCB-1242	ND		0.017	0.013	mg/Kg		07/15/17 04:45	07/15/17 18:13	1
PCB-1248	ND		0.017	0.0080	mg/Kg		07/15/17 04:45	07/15/17 18:13	1
PCB-1254	ND		0.017	0.0073	mg/Kg		07/15/17 04:45	07/15/17 18:13	1
PCB-1260	ND		0.017	0.011	mg/Kg		07/15/17 04:45	07/15/17 18:13	1
PCB-1262	ND		0.017	0.012	mg/Kg		07/15/17 04:45	07/15/17 18:13	1
PCB-1268	ND		0.017	0.0051	mg/Kg		07/15/17 04:45	07/15/17 18:13	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*93*		*23 - 150*	*07/15/17 04:45*	*07/15/17 18:13*	*1*
DCB Decachlorobiphenyl (Surr)	*101*		*23 - 150*	*07/15/17 04:45*	*07/15/17 18:13*	*1*
Tetrachloro-m-xylene (Surr)	*89*		*27 - 138*	*07/15/17 04:45*	*07/15/17 18:13*	*1*
Tetrachloro-m-xylene (Surr)	*95*		*27 - 138*	*07/15/17 04:45*	*07/15/17 18:13*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCS 180-217140/2-C
Matrix: Solid
Analysis Batch: 217178

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 217140

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	1.33	0.976		mg/Kg		73	52 - 126
PCB-1260	1.33	1.07		mg/Kg		81	50 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*91*		*23 - 150*
DCB Decachlorobiphenyl (Surr)	*96*		*23 - 150*
Tetrachloro-m-xylene (Surr)	*87*		*27 - 138*
Tetrachloro-m-xylene (Surr)	*89*		*27 - 138*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 180-217101/1-A
Matrix: Solid
Analysis Batch: 217275

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 217101

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		1.0	0.44	mg/Kg		07/14/17 11:31	07/17/17 07:58	1
Barium	ND		20	5.4	mg/Kg		07/14/17 11:31	07/17/17 07:58	1
Beryllium	ND		0.40	0.10	mg/Kg		07/14/17 11:31	07/17/17 07:58	1
Cadmium	ND		0.50	0.11	mg/Kg		07/14/17 11:31	07/17/17 07:58	1
Chromium	ND		0.50	0.13	mg/Kg		07/14/17 11:31	07/17/17 07:58	1
Copper	ND		2.5	0.77	mg/Kg		07/14/17 11:31	07/17/17 07:58	1
Lead	ND		1.0	0.33	mg/Kg		07/14/17 11:31	07/17/17 07:58	1
Manganese	ND		1.5	0.41	mg/Kg		07/14/17 11:31	07/17/17 07:58	1
Nickel	ND		4.0	0.90	mg/Kg		07/14/17 11:31	07/17/17 07:58	1
Selenium	ND		1.0	0.40	mg/Kg		07/14/17 11:31	07/17/17 07:58	1
Silver	ND		0.50	0.17	mg/Kg		07/14/17 11:31	07/17/17 07:58	1
Zinc	ND		2.0	1.0	mg/Kg		07/14/17 11:31	07/17/17 07:58	1

Lab Sample ID: LCS 180-217101/2-A
Matrix: Solid
Analysis Batch: 217275

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 217101

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	50.0	51.4		mg/Kg		103	80 - 120
Barium	200	203		mg/Kg		101	80 - 120
Beryllium	5.00	5.12		mg/Kg		102	80 - 120
Cadmium	5.00	5.13		mg/Kg		103	80 - 120
Chromium	20.0	20.1		mg/Kg		100	80 - 120
Copper	25.0	25.5		mg/Kg		102	80 - 120
Lead	50.0	49.3		mg/Kg		99	80 - 120
Manganese	50.0	50.0		mg/Kg		100	80 - 120
Nickel	50.0	50.8		mg/Kg		102	80 - 120
Selenium	50.0	50.6		mg/Kg		101	80 - 120
Silver	5.00	5.03		mg/Kg		101	80 - 120
Zinc	50.0	53.8		mg/Kg		108	80 - 120

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 180-68140-A-3-B MS
Matrix: Solid
Analysis Batch: 217275

Client Sample ID: 180-68140-A-3-B MS
Prep Type: Total/NA
Prep Batch: 217101

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	12		52.7	53.6		mg/Kg	☼	79	75 - 125
Barium	77		211	256		mg/Kg	☼	85	75 - 125
Beryllium	0.34	J	5.27	4.86		mg/Kg	☼	86	75 - 125
Cadmium	0.19	J	5.27	4.95		mg/Kg	☼	90	75 - 125
Chromium	9.9		21.1	26.2		mg/Kg	☼	78	75 - 125
Copper	26		26.4	50.6		mg/Kg	☼	92	75 - 125
Lead	34	F1	52.7	101	F1	mg/Kg	☼	126	75 - 125
Manganese	550		52.7	435	4	mg/Kg	☼	-209	75 - 125
Nickel	19		52.7	67.5		mg/Kg	☼	92	75 - 125
Selenium	ND		52.7	46.7		mg/Kg	☼	89	75 - 125
Silver	ND		5.27	4.78		mg/Kg	☼	91	75 - 125
Zinc	82		52.7	125		mg/Kg	☼	82	75 - 125

Lab Sample ID: 180-68140-A-3-C MSD
Matrix: Solid
Analysis Batch: 217275

Client Sample ID: 180-68140-A-3-C MSD
Prep Type: Total/NA
Prep Batch: 217101

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	12		54.9	56.2		mg/Kg	☼	81	75 - 125	5	20
Barium	77		219	284		mg/Kg	☼	94	75 - 125	10	20
Beryllium	0.34	J	5.49	5.23		mg/Kg	☼	89	75 - 125	7	20
Cadmium	0.19	J	5.49	5.16		mg/Kg	☼	91	75 - 125	4	20
Chromium	9.9		21.9	29.2		mg/Kg	☼	88	75 - 125	11	20
Copper	26		27.4	51.6		mg/Kg	☼	92	75 - 125	2	20
Lead	34	F1	54.9	91.2		mg/Kg	☼	103	75 - 125	10	20
Manganese	550		54.9	414	4	mg/Kg	☼	-238	75 - 125	5	20
Nickel	19		54.9	71.4		mg/Kg	☼	96	75 - 125	6	20
Selenium	ND		54.9	49.1		mg/Kg	☼	90	75 - 125	5	20
Silver	ND		5.49	5.00		mg/Kg	☼	91	75 - 125	5	20
Zinc	82		54.9	127		mg/Kg	☼	82	75 - 125	1	20

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 180-217422/1-A
Matrix: Solid
Analysis Batch: 217578

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 217422

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.033	0.0074	mg/Kg		07/18/17 14:49	07/19/17 11:55	1

Lab Sample ID: LCS 180-217422/2-A
Matrix: Solid
Analysis Batch: 217578

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 217422

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.417	0.478		mg/Kg		115	80 - 120

Method: 7471B - Mercury (CVAA) (Continued)

Lab Sample ID: 180-68140-3 MS
Matrix: Solid
Analysis Batch: 217578

Client Sample ID: W4, S1, C 71217
Prep Type: Total/NA
Prep Batch: 217422

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.16	F1 F2	0.191	0.874	F1	mg/Kg	☼	373	80 - 120

Lab Sample ID: 180-68140-3 MSD
Matrix: Solid
Analysis Batch: 217578

Client Sample ID: W4, S1, C 71217
Prep Type: Total/NA
Prep Batch: 217422

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.16	F1 F2	0.181	0.672	F1 F2	mg/Kg	☼	282	80 - 120	26	20

Method: 2540G - SM 2540G

Lab Sample ID: 180-68140-3 DU
Matrix: Solid
Analysis Batch: 217112

Client Sample ID: W4, S1, C 71217
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	8.0		8.1		%		1	20
Percent Solids	92.0		91.9		%		0.1	20

Lab Sample ID: 180-68140-21 DU
Matrix: Solid
Analysis Batch: 217112

Client Sample ID: W5, S4, C 71217
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	9.0		9.5		%		5	20
Percent Solids	91.0		90.5		%		0.5	20

Method: 9014 - Cyanide

Lab Sample ID: MB 180-217382/4-A
Matrix: Solid
Analysis Batch: 217445

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 217382

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.50	0.15	mg/Kg		07/18/17 10:56	07/18/17 14:05	1

Lab Sample ID: HLCS 180-217382/2-A
Matrix: Solid
Analysis Batch: 217445

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 217382

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.250	0.248		mg/Kg		99	90 - 110

Lab Sample ID: LCS 180-217382/3-A
Matrix: Solid
Analysis Batch: 217445

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 217382

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	158	106		mg/Kg		67	38 - 162

QC Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68140-1

Lab Sample ID: LLCS 180-217382/1-A
Matrix: Solid
Analysis Batch: 217445

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 217382

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.0500	0.0493		mg/Kg		99	90 - 110

GC/MS VOA

Analysis Batch: 217186

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68140-16	W5, S5, A 71217	Total/NA	Solid	8260C	217187
180-68140-20	W5, S4, B 71217	Total/NA	Solid	8260C	217187
180-68140-23	W5, S3, B 71217	Total/NA	Solid	8260C	217187
180-68140-25	W5, S2, A 71217	Total/NA	Solid	8260C	217187
180-68140-26	W5, S2, B 71217	Total/NA	Solid	8260C	217187
180-68140-28	W5, S1, A 71217	Total/NA	Solid	8260C	217187
180-68140-29	W5, S1, B 71217	Total/NA	Solid	8260C	217187
MB 180-217186/9	Method Blank	Total/NA	Solid	8260C	
LCS 180-217186/4	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 180-217186/5	Lab Control Sample Dup	Total/NA	Solid	8260C	

Prep Batch: 217187

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68140-16	W5, S5, A 71217	Total/NA	Solid	5035	
180-68140-20	W5, S4, B 71217	Total/NA	Solid	5035	
180-68140-23	W5, S3, B 71217	Total/NA	Solid	5035	
180-68140-25	W5, S2, A 71217	Total/NA	Solid	5035	
180-68140-26	W5, S2, B 71217	Total/NA	Solid	5035	
180-68140-28	W5, S1, A 71217	Total/NA	Solid	5035	
180-68140-29	W5, S1, B 71217	Total/NA	Solid	5035	

Analysis Batch: 217209

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68140-17	W5, S5, B 71217	Total/NA	Solid	8260C	217220
180-68140-19	W5, S4, A 71217	Total/NA	Solid	8260C	217220
180-68140-22	W5, S3, A 71217	Total/NA	Solid	8260C	217220
180-68140-32	DUP-7	Total/NA	Solid	8260C	217220
180-68140-33	DUP-8	Total/NA	Solid	8260C	217220
MB 180-217209/11	Method Blank	Total/NA	Solid	8260C	
LCS 180-217209/4	Lab Control Sample	Total/NA	Solid	8260C	

Prep Batch: 217220

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68140-17	W5, S5, B 71217	Total/NA	Solid	5035	
180-68140-19	W5, S4, A 71217	Total/NA	Solid	5035	
180-68140-22	W5, S3, A 71217	Total/NA	Solid	5035	
180-68140-32	DUP-7	Total/NA	Solid	5035	
180-68140-33	DUP-8	Total/NA	Solid	5035	

Analysis Batch: 217455

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68140-34	TRIP BLANK 1	Total/NA	Water	8260C	
180-68140-35	TRIP BLANK 2	Total/NA	Water	8260C	
MB 180-217455/5	Method Blank	Total/NA	Water	8260C	
LCS 180-217455/3	Lab Control Sample	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 217139

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68140-3	W4, S1, C 71217	Total/NA	Solid	3541	
180-68140-6	W4, S2, C 71217	Total/NA	Solid	3541	
180-68140-9	W4, S3, C 71217	Total/NA	Solid	3541	
180-68140-12	W4, S4, C 71217	Total/NA	Solid	3541	
180-68140-15	W4, S5, C 71217	Total/NA	Solid	3541	
180-68140-18	W5, S5, C 71217	Total/NA	Solid	3541	
180-68140-21	W5, S4, C 71217	Total/NA	Solid	3541	
180-68140-24	W5, S3, C 71217	Total/NA	Solid	3541	
180-68140-27	W5, S2, C 71217	Total/NA	Solid	3541	
180-68140-30	W5, S1, C 71217	Total/NA	Solid	3541	
180-68140-31	DUP-6	Total/NA	Solid	3541	
MB 180-217139/1-A	Method Blank	Total/NA	Solid	3541	
LCS 180-217139/2-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 217155

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68140-9	W4, S3, C 71217	Total/NA	Solid	8270D LL	217139
180-68140-12	W4, S4, C 71217	Total/NA	Solid	8270D LL	217139
180-68140-15	W4, S5, C 71217	Total/NA	Solid	8270D LL	217139
MB 180-217139/1-A	Method Blank	Total/NA	Solid	8270D LL	217139
LCS 180-217139/2-A	Lab Control Sample	Total/NA	Solid	8270D LL	217139

Analysis Batch: 217242

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68140-3	W4, S1, C 71217	Total/NA	Solid	8270D LL	217139
180-68140-6	W4, S2, C 71217	Total/NA	Solid	8270D LL	217139
180-68140-18	W5, S5, C 71217	Total/NA	Solid	8270D LL	217139
180-68140-21	W5, S4, C 71217	Total/NA	Solid	8270D LL	217139
180-68140-24	W5, S3, C 71217	Total/NA	Solid	8270D LL	217139
180-68140-27	W5, S2, C 71217	Total/NA	Solid	8270D LL	217139
180-68140-30	W5, S1, C 71217	Total/NA	Solid	8270D LL	217139
180-68140-31	DUP-6	Total/NA	Solid	8270D LL	217139

GC Semi VOA

Prep Batch: 217140

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68140-3	W4, S1, C 71217	Total/NA	Solid	3541	
180-68140-6	W4, S2, C 71217	Total/NA	Solid	3541	
180-68140-9	W4, S3, C 71217	Total/NA	Solid	3541	
180-68140-12	W4, S4, C 71217	Total/NA	Solid	3541	
180-68140-15	W4, S5, C 71217	Total/NA	Solid	3541	
180-68140-18	W5, S5, C 71217	Total/NA	Solid	3541	
180-68140-21	W5, S4, C 71217	Total/NA	Solid	3541	
180-68140-24	W5, S3, C 71217	Total/NA	Solid	3541	
180-68140-27	W5, S2, C 71217	Total/NA	Solid	3541	
180-68140-30	W5, S1, C 71217	Total/NA	Solid	3541	
180-68140-31	DUP-6	Total/NA	Solid	3541	
MB 180-217140/1-C	Method Blank	Total/NA	Solid	3541	
LCS 180-217140/2-C	Lab Control Sample	Total/NA	Solid	3541	

GC Semi VOA (Continued)

Analysis Batch: 217178

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68140-3	W4, S1, C 71217	Total/NA	Solid	8082A	217282
180-68140-6	W4, S2, C 71217	Total/NA	Solid	8082A	217282
180-68140-9	W4, S3, C 71217	Total/NA	Solid	8082A	217282
180-68140-12	W4, S4, C 71217	Total/NA	Solid	8082A	217282
180-68140-15	W4, S5, C 71217	Total/NA	Solid	8082A	217282
180-68140-18	W5, S5, C 71217	Total/NA	Solid	8082A	217282
180-68140-21	W5, S4, C 71217	Total/NA	Solid	8082A	217282
180-68140-24	W5, S3, C 71217	Total/NA	Solid	8082A	217282
180-68140-27	W5, S2, C 71217	Total/NA	Solid	8082A	217282
180-68140-30	W5, S1, C 71217	Total/NA	Solid	8082A	217282
180-68140-31	DUP-6	Total/NA	Solid	8082A	217282
MB 180-217140/1-C	Method Blank	Total/NA	Solid	8082A	217282
LCS 180-217140/2-C	Lab Control Sample	Total/NA	Solid	8082A	217282

Cleanup Batch: 217281

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68140-3	W4, S1, C 71217	Total/NA	Solid	3665A	217140
180-68140-6	W4, S2, C 71217	Total/NA	Solid	3665A	217140
180-68140-9	W4, S3, C 71217	Total/NA	Solid	3665A	217140
180-68140-12	W4, S4, C 71217	Total/NA	Solid	3665A	217140
180-68140-15	W4, S5, C 71217	Total/NA	Solid	3665A	217140
180-68140-18	W5, S5, C 71217	Total/NA	Solid	3665A	217140
180-68140-21	W5, S4, C 71217	Total/NA	Solid	3665A	217140
180-68140-24	W5, S3, C 71217	Total/NA	Solid	3665A	217140
180-68140-27	W5, S2, C 71217	Total/NA	Solid	3665A	217140
180-68140-30	W5, S1, C 71217	Total/NA	Solid	3665A	217140
180-68140-31	DUP-6	Total/NA	Solid	3665A	217140
MB 180-217140/1-C	Method Blank	Total/NA	Solid	3665A	217140
LCS 180-217140/2-C	Lab Control Sample	Total/NA	Solid	3665A	217140

Cleanup Batch: 217282

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68140-3	W4, S1, C 71217	Total/NA	Solid	3660B	217281
180-68140-6	W4, S2, C 71217	Total/NA	Solid	3660B	217281
180-68140-9	W4, S3, C 71217	Total/NA	Solid	3660B	217281
180-68140-12	W4, S4, C 71217	Total/NA	Solid	3660B	217281
180-68140-15	W4, S5, C 71217	Total/NA	Solid	3660B	217281
180-68140-18	W5, S5, C 71217	Total/NA	Solid	3660B	217281
180-68140-21	W5, S4, C 71217	Total/NA	Solid	3660B	217281
180-68140-24	W5, S3, C 71217	Total/NA	Solid	3660B	217281
180-68140-27	W5, S2, C 71217	Total/NA	Solid	3660B	217281
180-68140-30	W5, S1, C 71217	Total/NA	Solid	3660B	217281
180-68140-31	DUP-6	Total/NA	Solid	3660B	217281
MB 180-217140/1-C	Method Blank	Total/NA	Solid	3660B	217281
LCS 180-217140/2-C	Lab Control Sample	Total/NA	Solid	3660B	217281

Metals

Prep Batch: 217101

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68140-3	W4, S1, C 71217	Total/NA	Solid	3050B	
180-68140-6	W4, S2, C 71217	Total/NA	Solid	3050B	
180-68140-9	W4, S3, C 71217	Total/NA	Solid	3050B	
180-68140-12	W4, S4, C 71217	Total/NA	Solid	3050B	
180-68140-15	W4, S5, C 71217	Total/NA	Solid	3050B	
180-68140-18	W5, S5, C 71217	Total/NA	Solid	3050B	
180-68140-21	W5, S4, C 71217	Total/NA	Solid	3050B	
180-68140-24	W5, S3, C 71217	Total/NA	Solid	3050B	
180-68140-27	W5, S2, C 71217	Total/NA	Solid	3050B	
180-68140-30	W5, S1, C 71217	Total/NA	Solid	3050B	
180-68140-31	DUP-6	Total/NA	Solid	3050B	
MB 180-217101/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 180-217101/2-A	Lab Control Sample	Total/NA	Solid	3050B	
180-68140-A-3-B MS	180-68140-A-3-B MS	Total/NA	Solid	3050B	
180-68140-A-3-C MSD	180-68140-A-3-C MSD	Total/NA	Solid	3050B	

Analysis Batch: 217275

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68140-3	W4, S1, C 71217	Total/NA	Solid	6010C	217101
180-68140-6	W4, S2, C 71217	Total/NA	Solid	6010C	217101
180-68140-9	W4, S3, C 71217	Total/NA	Solid	6010C	217101
180-68140-12	W4, S4, C 71217	Total/NA	Solid	6010C	217101
180-68140-15	W4, S5, C 71217	Total/NA	Solid	6010C	217101
180-68140-18	W5, S5, C 71217	Total/NA	Solid	6010C	217101
180-68140-21	W5, S4, C 71217	Total/NA	Solid	6010C	217101
180-68140-24	W5, S3, C 71217	Total/NA	Solid	6010C	217101
180-68140-27	W5, S2, C 71217	Total/NA	Solid	6010C	217101
180-68140-30	W5, S1, C 71217	Total/NA	Solid	6010C	217101
180-68140-31	DUP-6	Total/NA	Solid	6010C	217101
MB 180-217101/1-A	Method Blank	Total/NA	Solid	6010C	217101
LCS 180-217101/2-A	Lab Control Sample	Total/NA	Solid	6010C	217101
180-68140-A-3-B MS	180-68140-A-3-B MS	Total/NA	Solid	6010C	217101
180-68140-A-3-C MSD	180-68140-A-3-C MSD	Total/NA	Solid	6010C	217101

Prep Batch: 217422

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68140-3	W4, S1, C 71217	Total/NA	Solid	7471B	
180-68140-6	W4, S2, C 71217	Total/NA	Solid	7471B	
180-68140-9	W4, S3, C 71217	Total/NA	Solid	7471B	
180-68140-12	W4, S4, C 71217	Total/NA	Solid	7471B	
180-68140-15	W4, S5, C 71217	Total/NA	Solid	7471B	
180-68140-18	W5, S5, C 71217	Total/NA	Solid	7471B	
180-68140-21	W5, S4, C 71217	Total/NA	Solid	7471B	
180-68140-24	W5, S3, C 71217	Total/NA	Solid	7471B	
180-68140-27	W5, S2, C 71217	Total/NA	Solid	7471B	
180-68140-30	W5, S1, C 71217	Total/NA	Solid	7471B	
180-68140-31	DUP-6	Total/NA	Solid	7471B	
MB 180-217422/1-A	Method Blank	Total/NA	Solid	7471B	
LCS 180-217422/2-A	Lab Control Sample	Total/NA	Solid	7471B	
180-68140-3 MS	W4, S1, C 71217	Total/NA	Solid	7471B	
180-68140-3 MSD	W4, S1, C 71217	Total/NA	Solid	7471B	

Analysis Batch: 217578

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68140-3	W4, S1, C 71217	Total/NA	Solid	7471B	217422
180-68140-6	W4, S2, C 71217	Total/NA	Solid	7471B	217422
180-68140-9	W4, S3, C 71217	Total/NA	Solid	7471B	217422
180-68140-12	W4, S4, C 71217	Total/NA	Solid	7471B	217422
180-68140-15	W4, S5, C 71217	Total/NA	Solid	7471B	217422
180-68140-18	W5, S5, C 71217	Total/NA	Solid	7471B	217422
180-68140-21	W5, S4, C 71217	Total/NA	Solid	7471B	217422
180-68140-24	W5, S3, C 71217	Total/NA	Solid	7471B	217422
180-68140-27	W5, S2, C 71217	Total/NA	Solid	7471B	217422
180-68140-30	W5, S1, C 71217	Total/NA	Solid	7471B	217422
180-68140-31	DUP-6	Total/NA	Solid	7471B	217422
MB 180-217422/1-A	Method Blank	Total/NA	Solid	7471B	217422
LCS 180-217422/2-A	Lab Control Sample	Total/NA	Solid	7471B	217422
180-68140-3 MS	W4, S1, C 71217	Total/NA	Solid	7471B	217422
180-68140-3 MSD	W4, S1, C 71217	Total/NA	Solid	7471B	217422

General Chemistry

Analysis Batch: 217112

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68140-3	W4, S1, C 71217	Total/NA	Solid	2540G	
180-68140-6	W4, S2, C 71217	Total/NA	Solid	2540G	
180-68140-9	W4, S3, C 71217	Total/NA	Solid	2540G	
180-68140-12	W4, S4, C 71217	Total/NA	Solid	2540G	
180-68140-15	W4, S5, C 71217	Total/NA	Solid	2540G	
180-68140-16	W5, S5, A 71217	Total/NA	Solid	2540G	
180-68140-17	W5, S5, B 71217	Total/NA	Solid	2540G	
180-68140-18	W5, S5, C 71217	Total/NA	Solid	2540G	
180-68140-19	W5, S4, A 71217	Total/NA	Solid	2540G	
180-68140-20	W5, S4, B 71217	Total/NA	Solid	2540G	
180-68140-21	W5, S4, C 71217	Total/NA	Solid	2540G	
180-68140-22	W5, S3, A 71217	Total/NA	Solid	2540G	
180-68140-23	W5, S3, B 71217	Total/NA	Solid	2540G	
180-68140-24	W5, S3, C 71217	Total/NA	Solid	2540G	
180-68140-25	W5, S2, A 71217	Total/NA	Solid	2540G	
180-68140-26	W5, S2, B 71217	Total/NA	Solid	2540G	
180-68140-27	W5, S2, C 71217	Total/NA	Solid	2540G	
180-68140-28	W5, S1, A 71217	Total/NA	Solid	2540G	
180-68140-29	W5, S1, B 71217	Total/NA	Solid	2540G	
180-68140-30	W5, S1, C 71217	Total/NA	Solid	2540G	
180-68140-3 DU	W4, S1, C 71217	Total/NA	Solid	2540G	
180-68140-21 DU	W5, S4, C 71217	Total/NA	Solid	2540G	

Analysis Batch: 217115

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68140-31	DUP-6	Total/NA	Solid	2540G	
180-68140-32	DUP-7	Total/NA	Solid	2540G	
180-68140-33	DUP-8	Total/NA	Solid	2540G	

Prep Batch: 217382

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68140-3	W4, S1, C 71217	Total/NA	Solid	9010C	
180-68140-6	W4, S2, C 71217	Total/NA	Solid	9010C	

General Chemistry (Continued)

Prep Batch: 217382 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68140-9	W4, S3, C 71217	Total/NA	Solid	9010C	
180-68140-12	W4, S4, C 71217	Total/NA	Solid	9010C	
180-68140-15	W4, S5, C 71217	Total/NA	Solid	9010C	
180-68140-18	W5, S5, C 71217	Total/NA	Solid	9010C	
180-68140-21	W5, S4, C 71217	Total/NA	Solid	9010C	
180-68140-24	W5, S3, C 71217	Total/NA	Solid	9010C	
180-68140-27	W5, S2, C 71217	Total/NA	Solid	9010C	
180-68140-30	W5, S1, C 71217	Total/NA	Solid	9010C	
180-68140-31	DUP-6	Total/NA	Solid	9010C	
MB 180-217382/4-A	Method Blank	Total/NA	Solid	9010C	
HLCS 180-217382/2-A	Lab Control Sample	Total/NA	Solid	9010C	
LCS 180-217382/3-A	Lab Control Sample	Total/NA	Solid	9010C	
LLCS 180-217382/1-A	Lab Control Sample	Total/NA	Solid	9010C	

Analysis Batch: 217445

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68140-3	W4, S1, C 71217	Total/NA	Solid	9014	217382
180-68140-6	W4, S2, C 71217	Total/NA	Solid	9014	217382
180-68140-9	W4, S3, C 71217	Total/NA	Solid	9014	217382
180-68140-12	W4, S4, C 71217	Total/NA	Solid	9014	217382
180-68140-15	W4, S5, C 71217	Total/NA	Solid	9014	217382
180-68140-18	W5, S5, C 71217	Total/NA	Solid	9014	217382
180-68140-21	W5, S4, C 71217	Total/NA	Solid	9014	217382
180-68140-24	W5, S3, C 71217	Total/NA	Solid	9014	217382
180-68140-27	W5, S2, C 71217	Total/NA	Solid	9014	217382
180-68140-30	W5, S1, C 71217	Total/NA	Solid	9014	217382
180-68140-31	DUP-6	Total/NA	Solid	9014	217382
MB 180-217382/4-A	Method Blank	Total/NA	Solid	9014	217382
HLCS 180-217382/2-A	Lab Control Sample	Total/NA	Solid	9014	217382
LCS 180-217382/3-A	Lab Control Sample	Total/NA	Solid	9014	217382
LLCS 180-217382/1-A	Lab Control Sample	Total/NA	Solid	9014	217382

TestAmerica Pittsburgh
301 Alpha Drive RIDC Park
Pittsburgh, PA 15238
Phone (412) 963-7058 Fax (412) 963-2468

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Alexandra Ambrosino	Lab PM: Dunlap, David A	Carrier Tracking No(s):	COC No: 180-38453-8381.5
Client Contact: Ashwin Ranna Aron Krasnopoler	Phone: 412 552 4758	E-Mail: david.dunlap@testamericainc.com		Page: Page 1 of 4
Company: Geosyntec Consultants, Inc.				Job #:
Address: Penn Center West One, Suite 402 1 Penn Center West Drive	Due Date Requested:	Analysis Requested		Preservation Codes:
City: Pittsburgh	TAT Requested (days): 1 Day			A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify)
State, Zip: PA, 15276				
Phone: A	PO #: MN0832B			Other:
Email: aranna@geosyntec.com	WO #:			
Project Name: Former Sperry Remington Site - North IRM	Project #: 18013464			
Site: Elmira	SSOW#:			

180-68140 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - VOA-Select List	6010C, 7471B, 9014	8082A, 8270D_LL	8260C_LL - VOA-Select List	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	A		
W4,S1,A 71217	7.12.17	835	G	Solid	N	N	X				4	Rush
W4,S1,B 71217	7.12.2017	840	G	Solid	N	N	X				4	
W4,S1,C 71217	7.12.2017	845	C	Solid	N	N		X	X		2	
W4,S2,A 71217	7.12.2017	915	G	Solid	N	Y	X				4	Perform MS MSD 3
W4,S2,B 71217	7.12.2017	920	G	Solid	N	N	X				4	
W4,S2,C 71217	7.12.2017	925	C	Solid	N	N		X	X		2	
W4,S3,A 71217	7.12.2017	945	G	Solid	N	N	X				4	Rush
W4,S3,B 71212	7.12.2017	950	G	Solid	N	N	X				4	
W4,S3,C 71217	7.12.2017	955	C	Solid	N	N		X	X		2	
W4,S4,A 71217	7.12.2017	1015	G	Solid	N	N	X				4	
W4,S4,B 71217	7.12.2017	1020	G	Solid	N	N	X				4	

Trip blank
1 small VOCs

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment: Fedex

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Alexandra Ambrosino	7.12.2017 1830	Geosyntec	[illegible]	7/14/17 930	TAL
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

7/20/2017

TestAmerica Pittsburgh
301 Alpha Drive RIDC Park
Pittsburgh, PA 15238
Phone (412) 963-7058 Fax (412) 963-2468

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Alexandra Ambrosino	Lab PM: Dunlap, David A	Carrier Tracking No(s):	COC No: 180-38453-8381.6
Client Contact: Ashwin Ranna Aran Krasnopoler	Phone: 4125524758	E-Mail: david.dunlap@testamericainc.com		Page: Page 3 of 4
Company: Geosyntec Consultants, Inc.				Job #:
Address: Penn Center West One, Suite 402 1 Penn Center West Drive	Due Date Requested:	Analysis Requested		Preservation Codes:
City: Pittsburgh	TAT Requested (days):			A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify) Other:
State, Zip: PA, 15276				
Phone:	PO #: MN0832B			
Email: aranna@geosyntec.com	WO #:			
Project Name: Former Sperry Remington Site - North IRM	Project #: 18013464			
Site:	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - VOA-Select List	6010C, 7471B, 9014	8082A, 8270D_LL	8260C_LL - VOA-Select List	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	A		
W4,S4,C 7 1217	7.12.2017	1025	C	Solid	N	N		X	X		2	Trip Blank 1 for all VOCs
W4,S5,A 7 1217	7.12.2017	1945	G	Solid	N	N	X				4	
W4,S5,B 7 1217	7.12.2017	1150	G	Solid	N	N	X				4	
W4,S5C 7 1217	7.12.2017	1155	C	Solid	N	N		X	X		2	
W5,S5,A 7 1217	7.12.2017	1225	G	Solid	N	N	X				4	Rush
W5,S5B 7 1217	7.12.2017	1230	G	Solid	N	N	X				4	Trip Blank 2 for all VOCs
W5,S5,C 7 1217	7.12.2017	1235	C	Solid	N	N		X	X		2	
W5,S4,A 7 1217	7.12.2017	1245	G	Solid	N	N	X				4	
W5,S4 B 7 1217	7.12.2017	1250	G	Solid	N	N	X				4	
W5,S4,C 7 1217	7.12.2017	1255	C	~~Solid~~ Water	N	N		X	X		2	
W5 S3 A 7 1217	7.12.2017	1315	G	~~Solid~~ Water	N	N	X				4	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment: Fedex

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Alexandra Ambrosino	7.12.2017 1830	Geosyntec	Thomas Ag	7/14/17 930	TAP
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

7/20/2017

TestAmerica Pittsburgh
301 Alpha Drive RIDC Park
Pittsburgh, PA 15238
Phone (412) 963-7058 Fax (412) 963-2468

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Alex Ambrosino	Lab PM: Dunlap, David A	Carrier Tracking No(s):	COC No: 180-38453-8381.7
Client Contact: Ashwin Ranna / Aron krasnopoler	Phone: 4125524758	E-Mail: david.dunlap@testamericainc.com		Page: Page 3 of 4
Company: Geosyntec Consultants, Inc.				Job #:
Address: Penn Center West One, Suite 402 1 Penn Center West Drive	Due Date Requested:			
City: Pittsburgh	TAT Requested (days): 1 Day			
State, Zip: PA, 15276				
Phone:	PO #: MN0832B			
Email: aranna@geosyntec.com akrasnopoler@geosyntec.com	WO #:			
Project Name: Former Sperry Remington Site - North IRM	Project #: 18013464			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - VOA-Select List	6010C, 7471B, 9014	8082A, 8270D_LL	8260C_LL - VOA-Select List	Total Number of containers	Special Instructions/Note:
Preservation Code:							N	N	N	A		
WS, S3, B 71217	7.12.2017	1320	G	Soil / Water	N	N	X				4	Rush
WS, S3, C 71217	7.12.2017	1325	C	Soil / Water	N	N		X	X		2	
WS, S2, A 71217	7.12.2017	1345	G	Soil / Water	N	N	X				4	
WS, S2, B 71217	7.12.2017	1350	G	Soil	N	N	X				4	
WS, S2, C 71217	7.12.2017	1355	C	Soil	N	N		X	X		2	
WS, S1, A 71217	7.12.2017	1415	G	Soil	N	N	X				4	
WS, S1, B 71217	7.12.2017	1420	G	Soil	N	N	X				4	
WS, S1 C 71217	7.12.2017	1425	C	Soil	N	N		X	X		2	
DUP-6	7.12.2017	—	C	Soil	N	N		X	X		2	AR
DUP-7	7.12.2017	—	G	Soil	N	N	X				4	
DUP-8	7.12.2017	—	G	Soil	N	N	X				4	

Trip Blank 2 for all VOCs

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by: | Date: | Time: | Method of Shipment: FedEx

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Alex Ambrosino	7.12.2017 1830	Geosyntec	[signature]	7/14/17 930	TMP
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

TestAmerica Pittsburgh
301 Alpha Drive RIDC Park
Pittsburgh, PA 15238
Phone (412) 963-7058 Fax (412) 963-2468

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Alex Ambrosino	Lab PM: Dunlap, David A	Carrier Tracking No(s):	COC No: 180-37665-7333.1
Client Contact: ~~Mary Tyler~~ Aron Krasnopoler Ashwin Rawal	Phone: 4125524758	E-Mail: david.dunlap@testamericainc.com		Page: Page 4 of 4
Company: Geosyntec Consultants, Inc.				Job #:
Address: 180A Market Place Blvd	Due Date Requested:	Analysis Requested		Preservation Codes:
City: Knoxville	TAT Requested (days): 1 Day			A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
State, Zip: TN, 37922	PO #: MN0832B			Other:
Phone:	WO #:			
Email: ~~mtyler@geosyntec.com~~ akrasnopoler@geosyntec.com	Project #: 18013464			
Project Name: Former Sperry Remington Site - North	SSOW#:			
Site:				

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260 C-list VOA std list	Total Number of containers	Special Instructions/Note:
	Preservation Code:								
Trip Blank 1	~~7.12.2017~~	—	—	Water	N	N	X	2	Rush
Trip Blank 2	7.12.2017	—	—	Water	N	N	X	2	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by: | Date: | Time: | Method of Shipment: Fedex

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Alex Ambrosino	7.12.2017 1930	Geosyntec	[signature]	7/14/17 930	TAP
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 180-68140-1

Login Number: 68140
List Number: 1
Creator: Dunlap, David A

List Source: TestAmerica Pittsburgh

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

TestAmerica Job ID: 180-68219-2
Client Project/Site: Former Sperry Remington Site - North IRM

For:
Geosyntec Consultants, Inc.
10211 Wincopin Circle
4'th Floor
Columbia, Maryland 21044

Attn: Mr. Aron Krasnopoler

Veronica Bortot

Authorized for release by:
7/20/2017 5:23:48 PM
Veronica Bortot, Senior Project Manager
(412)963-2435
veronica.bortot@testamericainc.com

Designee for

David Dunlap, Senior Project Manager
(412)963-2432
david.dunlap@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Job ID: 180-68219-2

Laboratory: TestAmerica Pittsburgh

Narrative

Job Narrative
180-68219-2

Comments
No additional comments.

Receipt
The samples were received on 7/14/2017 9:30 AM and 7/15/2017 9:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 8 coolers at receipt time were 2.4º C, 2.6º C, 3.1º C, 3.1º C, 3.6º C, 3.6º C, 3.7º C and 4.8º C.

Receipt Exceptions

The other parameters associated with the enclosed VOA samples are in job 180-68140

The container label for the following samples did not match the information listed on the Chain-of-Custody (COC). W4, S4, A 71317 (180-68219-44[MS]) and W4, S4, A 71317 (180-68219-44[MSD]). The container labels list a collection time of 1545, while the parent sample says 1515. The COC lists a sample collection time of 1515 as well. Samples times for the MS/MDS were logged as 1515.

The container label for the following sample did not match the information listed on the Chain-of-Custody (COC). W4, S4, A 71317 (180-68219-44), W4, S4, B 71317 (180-68219-45), W4, S5, A 71317 (180-68219-46), W4, S5, B 71317 (180-68219-47), W4, S3, A 71317 (180-68219-48) and W4, S3, B 71317 (180-68219-49). The sample IDs and the collection dates/times on the labels do not match what is on the COC. The containers were labeled based on sample collection date/time listed on the COC as the IDs were incorrect.

GC/MS VOA
Method(s) 8260C: The continuing calibration verification (CCV) analyzed in 180-217322 was outside the method criteria for the following analyte(s): Vinyl Chloride. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method(s) 8260C: Internal standard (ISTD) response for TBA-d9 for the following samples was outside acceptance criteria: W4, S1, B 71317 (180-68219-41). This ISTD does not correspond to any of the requested target compounds; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc. TestAmerica Job ID: 180-68219-2
Project/Site: Former Sperry Remington Site - North IRM

Laboratory: TestAmerica Pittsburgh

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	11182	03-31-18

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
2540G		Solid	Percent Moisture
2540G		Solid	Percent Solids

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68219-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-68219-40	W4, S1, A 71317	Solid	07/13/17 14:15	07/14/17 13:15
180-68219-41	W4, S1, B 71317	Solid	07/13/17 14:20	07/14/17 13:15
180-68219-42	W4, S2, A 71317	Solid	07/13/17 14:45	07/14/17 13:15
180-68219-43	W4, S2, B 71317	Solid	07/13/17 14:50	07/14/17 13:15
180-68219-44	W4, S4, A 71317	Solid	07/13/17 15:15	07/14/17 13:15
180-68219-45	W4, S4, B 71317	Solid	07/13/17 15:20	07/14/17 13:15
180-68219-46	W4, S5, A 71317	Solid	07/13/17 15:45	07/14/17 13:15
180-68219-47	W4, S5, B 71317	Solid	07/13/17 15:50	07/14/17 13:15
180-68219-48	W4, S3, A 71317	Solid	07/13/17 16:00	07/14/17 13:15
180-68219-49	W4, S3, B 71317	Solid	07/13/17 16:05	07/14/17 13:15

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68219-2

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL PIT
2540G	SM 2540G	SM22	TAL PIT

Protocol References:

SM22 = SM22

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68219-2

Client Sample ID: W4, S1, A 71317
Date Collected: 07/13/17 14:15
Date Received: 07/14/17 13:15

Lab Sample ID: 180-68219-40
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			217301	07/17/17 15:21	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W4, S1, A 71317
Date Collected: 07/13/17 14:15
Date Received: 07/14/17 13:15

Lab Sample ID: 180-68219-40
Matrix: Solid
Percent Solids: 93.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.4151 g	5 mL	217331	07/18/17 06:00	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	217322	07/18/17 09:14	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W4, S1, B 71317
Date Collected: 07/13/17 14:20
Date Received: 07/14/17 13:15

Lab Sample ID: 180-68219-41
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			217301	07/17/17 15:21	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W4, S1, B 71317
Date Collected: 07/13/17 14:20
Date Received: 07/14/17 13:15

Lab Sample ID: 180-68219-41
Matrix: Solid
Percent Solids: 92.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.7499 g	5 mL	217331	07/18/17 06:00	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	217322	07/18/17 09:37	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W4, S2, A 71317
Date Collected: 07/13/17 14:45
Date Received: 07/14/17 13:15

Lab Sample ID: 180-68219-42
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			217301	07/17/17 15:21	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W4, S2, A 71317
Date Collected: 07/13/17 14:45
Date Received: 07/14/17 13:15

Lab Sample ID: 180-68219-42
Matrix: Solid
Percent Solids: 91.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.702 g	5 mL	217331	07/18/17 06:00	KLG	TAL PIT

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68219-2

Client Sample ID: W4, S2, A 71317
Date Collected: 07/13/17 14:45
Date Received: 07/14/17 13:15

Lab Sample ID: 180-68219-42
Matrix: Solid
Percent Solids: 91.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	217322	07/18/17 09:59	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W4, S2, B 71317
Date Collected: 07/13/17 14:50
Date Received: 07/14/17 13:15

Lab Sample ID: 180-68219-43
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			217301	07/17/17 15:21	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W4, S2, B 71317
Date Collected: 07/13/17 14:50
Date Received: 07/14/17 13:15

Lab Sample ID: 180-68219-43
Matrix: Solid
Percent Solids: 92.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.9261 g	5 mL	217331	07/18/17 06:00	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	217322	07/18/17 10:22	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W4, S4, A 71317
Date Collected: 07/13/17 15:15
Date Received: 07/14/17 13:15

Lab Sample ID: 180-68219-44
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			217301	07/17/17 15:21	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W4, S4, A 71317
Date Collected: 07/13/17 15:15
Date Received: 07/14/17 13:15

Lab Sample ID: 180-68219-44
Matrix: Solid
Percent Solids: 88.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.3867 g	5 mL	217331	07/18/17 06:00	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	217322	07/18/17 08:51	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W4, S4, B 71317
Date Collected: 07/13/17 15:20
Date Received: 07/14/17 13:15

Lab Sample ID: 180-68219-45
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			217301	07/17/17 15:21	JTL	TAL PIT

Client Sample ID: W4, S4, B 71317
Date Collected: 07/13/17 15:20
Date Received: 07/14/17 13:15

Lab Sample ID: 180-68219-45
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			217301	07/17/17 15:21	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W4, S4, B 71317
Date Collected: 07/13/17 15:20
Date Received: 07/14/17 13:15

Lab Sample ID: 180-68219-45
Matrix: Solid
Percent Solids: 89.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.9414 g	5 mL	217331	07/18/17 06:00	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	217322	07/18/17 10:45	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W4, S5, A 71317
Date Collected: 07/13/17 15:45
Date Received: 07/14/17 13:15

Lab Sample ID: 180-68219-46
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			217396	07/18/17 11:56	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W4, S5, A 71317
Date Collected: 07/13/17 15:45
Date Received: 07/14/17 13:15

Lab Sample ID: 180-68219-46
Matrix: Solid
Percent Solids: 90.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.2288 g	5 mL	217331	07/18/17 06:00	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	217322	07/18/17 11:07	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W4, S5, B 71317
Date Collected: 07/13/17 15:50
Date Received: 07/14/17 13:15

Lab Sample ID: 180-68219-47
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			217396	07/18/17 11:56	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W4, S5, B 71317
Date Collected: 07/13/17 15:50
Date Received: 07/14/17 13:15

Lab Sample ID: 180-68219-47
Matrix: Solid
Percent Solids: 91.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.8051 g	5 mL	217331	07/18/17 06:00	KLG	TAL PIT

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68219-2

Client Sample ID: W4, S5, B 71317
Date Collected: 07/13/17 15:50
Date Received: 07/14/17 13:15

Lab Sample ID: 180-68219-47
Matrix: Solid
Percent Solids: 91.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	217322	07/18/17 11:30	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W4, S3, A 71317
Date Collected: 07/13/17 16:00
Date Received: 07/14/17 13:15

Lab Sample ID: 180-68219-48
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			217301	07/17/17 15:21	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W4, S3, A 71317
Date Collected: 07/13/17 16:00
Date Received: 07/14/17 13:15

Lab Sample ID: 180-68219-48
Matrix: Solid
Percent Solids: 91.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.8866 g	5 mL	217331	07/18/17 06:00	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	217322	07/18/17 11:52	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W4, S3, B 71317
Date Collected: 07/13/17 16:05
Date Received: 07/14/17 13:15

Lab Sample ID: 180-68219-49
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			217301	07/17/17 15:21	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W4, S3, B 71317
Date Collected: 07/13/17 16:05
Date Received: 07/14/17 13:15

Lab Sample ID: 180-68219-49
Matrix: Solid
Percent Solids: 91.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.5624 g	5 mL	217331	07/18/17 06:00	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	217322	07/18/17 12:15	KLG	TAL PIT
	Instrument ID: CHHP3									

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68219-2

Analyst References:

Lab: TAL PIT

Batch Type: Prep

KLG = Kathy Gordon

Batch Type: Analysis

JTL = Justin Landry

KLG = Kathy Gordon

Client Sample ID: W4, S1, A 71317

Date Collected: 07/13/17 14:15
Date Received: 07/14/17 13:15

Lab Sample ID: 180-68219-40

Matrix: Solid
Percent Solids: 93.4

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.020	0.0031	mg/Kg	☼	07/18/17 06:00	07/18/17 09:14	1
Benzene	ND		0.0049	0.0019	mg/Kg	☼	07/18/17 06:00	07/18/17 09:14	1
2-Butanone (MEK)	ND		0.0049	0.0029	mg/Kg	☼	07/18/17 06:00	07/18/17 09:14	1
Carbon tetrachloride	ND		0.0049	0.0033	mg/Kg	☼	07/18/17 06:00	07/18/17 09:14	1
Chlorobenzene	ND		0.0049	0.0016	mg/Kg	☼	07/18/17 06:00	07/18/17 09:14	1
Chloroform	ND		0.0049	0.0021	mg/Kg	☼	07/18/17 06:00	07/18/17 09:14	1
cis-1,2-Dichloroethene	ND		0.0049	0.0016	mg/Kg	☼	07/18/17 06:00	07/18/17 09:14	1
1,2-Dichlorobenzene	ND		0.0049	0.0040	mg/Kg	☼	07/18/17 06:00	07/18/17 09:14	1
1,3-Dichlorobenzene	ND		0.0049	0.0016	mg/Kg	☼	07/18/17 06:00	07/18/17 09:14	1
1,4-Dichlorobenzene	ND		0.0049	0.0010	mg/Kg	☼	07/18/17 06:00	07/18/17 09:14	1
1,1-Dichloroethane	ND		0.0049	0.0018	mg/Kg	☼	07/18/17 06:00	07/18/17 09:14	1
1,2-Dichloroethane	ND		0.0049	0.0014	mg/Kg	☼	07/18/17 06:00	07/18/17 09:14	1
1,1-Dichloroethene	ND		0.0049	0.0028	mg/Kg	☼	07/18/17 06:00	07/18/17 09:14	1
Ethylbenzene	ND		0.0049	0.0021	mg/Kg	☼	07/18/17 06:00	07/18/17 09:14	1
Methylene Chloride	ND		0.0049	0.0023	mg/Kg	☼	07/18/17 06:00	07/18/17 09:14	1
Methyl tert-butyl ether	ND		0.0049	0.0036	mg/Kg	☼	07/18/17 06:00	07/18/17 09:14	1
n-Butylbenzene	ND		0.0049	0.0037	mg/Kg	☼	07/18/17 06:00	07/18/17 09:14	1
N-Propylbenzene	ND		0.0049	0.0021	mg/Kg	☼	07/18/17 06:00	07/18/17 09:14	1
sec-Butylbenzene	ND		0.0049	0.0024	mg/Kg	☼	07/18/17 06:00	07/18/17 09:14	1
tert-Butylbenzene	ND		0.0049	0.0018	mg/Kg	☼	07/18/17 06:00	07/18/17 09:14	1
Tetrachloroethene	ND		0.0049	0.0020	mg/Kg	☼	07/18/17 06:00	07/18/17 09:14	1
Toluene	ND		0.0049	0.0017	mg/Kg	☼	07/18/17 06:00	07/18/17 09:14	1
trans-1,2-Dichloroethene	ND		0.0049	0.0025	mg/Kg	☼	07/18/17 06:00	07/18/17 09:14	1
1,1,1-Trichloroethane	ND		0.0049	0.0025	mg/Kg	☼	07/18/17 06:00	07/18/17 09:14	1
Trichloroethene	ND		0.0049	0.0015	mg/Kg	☼	07/18/17 06:00	07/18/17 09:14	1
1,2,4-Trimethylbenzene	ND		0.0049	0.0013	mg/Kg	☼	07/18/17 06:00	07/18/17 09:14	1
1,3,5-Trimethylbenzene	ND		0.0049	0.0017	mg/Kg	☼	07/18/17 06:00	07/18/17 09:14	1
Vinyl chloride	ND		0.0049	0.0036	mg/Kg	☼	07/18/17 06:00	07/18/17 09:14	1
Xylenes, Total	ND		0.0099	0.0043	mg/Kg	☼	07/18/17 06:00	07/18/17 09:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*77*		*63 - 120*	*07/18/17 06:00*	*07/18/17 09:14*	*1*
Dibromofluoromethane (Surr)	*74*		*68 - 121*	*07/18/17 06:00*	*07/18/17 09:14*	*1*
1,2-Dichloroethane-d4 (Surr)	*71*		*52 - 124*	*07/18/17 06:00*	*07/18/17 09:14*	*1*
Toluene-d8 (Surr)	*94*		*72 - 127*	*07/18/17 06:00*	*07/18/17 09:14*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**6.6**		0.1	0.1	%			07/17/17 15:21	1
Percent Solids	**93.4**		0.1	0.1	%			07/17/17 15:21	1

Client Sample ID: W4, S1, B 71317

Date Collected: 07/13/17 14:20
Date Received: 07/14/17 13:15

Lab Sample ID: 180-68219-41

Matrix: Solid
Percent Solids: 92.1

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.016	0.0025	mg/Kg	☼	07/18/17 06:00	07/18/17 09:37	1
Benzene	ND		0.0040	0.0016	mg/Kg	☼	07/18/17 06:00	07/18/17 09:37	1
2-Butanone (MEK)	ND		0.0040	0.0023	mg/Kg	☼	07/18/17 06:00	07/18/17 09:37	1

Client Sample ID: W4, S1, B 71317 — Lab Sample ID: 180-68219-41

Date Collected: 07/13/17 14:20 — **Matrix: Solid**
Date Received: 07/14/17 13:15 — **Percent Solids: 92.1**

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	ND		0.0040	0.0027	mg/Kg	☼	07/18/17 06:00	07/18/17 09:37	1
Chlorobenzene	ND		0.0040	0.0013	mg/Kg	☼	07/18/17 06:00	07/18/17 09:37	1
Chloroform	ND		0.0040	0.0017	mg/Kg	☼	07/18/17 06:00	07/18/17 09:37	1
cis-1,2-Dichloroethene	ND		0.0040	0.0013	mg/Kg	☼	07/18/17 06:00	07/18/17 09:37	1
1,2-Dichlorobenzene	ND		0.0040	0.0032	mg/Kg	☼	07/18/17 06:00	07/18/17 09:37	1
1,3-Dichlorobenzene	ND		0.0040	0.0013	mg/Kg	☼	07/18/17 06:00	07/18/17 09:37	1
1,4-Dichlorobenzene	ND		0.0040	0.00082	mg/Kg	☼	07/18/17 06:00	07/18/17 09:37	1
1,1-Dichloroethane	ND		0.0040	0.0015	mg/Kg	☼	07/18/17 06:00	07/18/17 09:37	1
1,2-Dichloroethane	ND		0.0040	0.0012	mg/Kg	☼	07/18/17 06:00	07/18/17 09:37	1
1,1-Dichloroethene	ND		0.0040	0.0023	mg/Kg	☼	07/18/17 06:00	07/18/17 09:37	1
Ethylbenzene	ND		0.0040	0.0017	mg/Kg	☼	07/18/17 06:00	07/18/17 09:37	1
Methylene Chloride	ND		0.0040	0.0019	mg/Kg	☼	07/18/17 06:00	07/18/17 09:37	1
Methyl tert-butyl ether	ND		0.0040	0.0030	mg/Kg	☼	07/18/17 06:00	07/18/17 09:37	1
n-Butylbenzene	ND		0.0040	0.0030	mg/Kg	☼	07/18/17 06:00	07/18/17 09:37	1
N-Propylbenzene	ND		0.0040	0.0017	mg/Kg	☼	07/18/17 06:00	07/18/17 09:37	1
sec-Butylbenzene	ND		0.0040	0.0020	mg/Kg	☼	07/18/17 06:00	07/18/17 09:37	1
tert-Butylbenzene	ND		0.0040	0.0015	mg/Kg	☼	07/18/17 06:00	07/18/17 09:37	1
Tetrachloroethene	ND		0.0040	0.0016	mg/Kg	☼	07/18/17 06:00	07/18/17 09:37	1
Toluene	ND		0.0040	0.0014	mg/Kg	☼	07/18/17 06:00	07/18/17 09:37	1
trans-1,2-Dichloroethene	ND		0.0040	0.0020	mg/Kg	☼	07/18/17 06:00	07/18/17 09:37	1
1,1,1-Trichloroethane	ND		0.0040	0.0020	mg/Kg	☼	07/18/17 06:00	07/18/17 09:37	1
Trichloroethene	ND		0.0040	0.0012	mg/Kg	☼	07/18/17 06:00	07/18/17 09:37	1
1,2,4-Trimethylbenzene	ND		0.0040	0.0011	mg/Kg	☼	07/18/17 06:00	07/18/17 09:37	1
1,3,5-Trimethylbenzene	ND		0.0040	0.0014	mg/Kg	☼	07/18/17 06:00	07/18/17 09:37	1
Vinyl chloride	ND		0.0040	0.0029	mg/Kg	☼	07/18/17 06:00	07/18/17 09:37	1
Xylenes, Total	ND		0.0080	0.0035	mg/Kg	☼	07/18/17 06:00	07/18/17 09:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*63 - 120*	*07/18/17 06:00*	*07/18/17 09:37*	*1*
Dibromofluoromethane (Surr)	*90*		*68 - 121*	*07/18/17 06:00*	*07/18/17 09:37*	*1*
1,2-Dichloroethane-d4 (Surr)	*80*		*52 - 124*	*07/18/17 06:00*	*07/18/17 09:37*	*1*
Toluene-d8 (Surr)	*117*		*72 - 127*	*07/18/17 06:00*	*07/18/17 09:37*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**7.9**		0.1	0.1	%			07/17/17 15:21	1
Percent Solids	**92.1**		0.1	0.1	%			07/17/17 15:21	1

Client Sample ID: W4, S2, A 71317 — Lab Sample ID: 180-68219-42

Date Collected: 07/13/17 14:45 — **Matrix: Solid**
Date Received: 07/14/17 13:15 — **Percent Solids: 91.2**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.016	0.0026	mg/Kg	☼	07/18/17 06:00	07/18/17 09:59	1
Benzene	ND		0.0041	0.0016	mg/Kg	☼	07/18/17 06:00	07/18/17 09:59	1
2-Butanone (MEK)	ND		0.0041	0.0024	mg/Kg	☼	07/18/17 06:00	07/18/17 09:59	1
Carbon tetrachloride	ND		0.0041	0.0027	mg/Kg	☼	07/18/17 06:00	07/18/17 09:59	1
Chlorobenzene	ND		0.0041	0.0013	mg/Kg	☼	07/18/17 06:00	07/18/17 09:59	1
Chloroform	ND		0.0041	0.0017	mg/Kg	☼	07/18/17 06:00	07/18/17 09:59	1

Client Sample ID: W4, S2, A 71317 — Lab Sample ID: 180-68219-42

Date Collected: 07/13/17 14:45 — **Matrix: Solid**
Date Received: 07/14/17 13:15 — **Percent Solids: 91.2**

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		0.0041	0.0013	mg/Kg	☼	07/18/17 06:00	07/18/17 09:59	1
1,2-Dichlorobenzene	ND		0.0041	0.0033	mg/Kg	☼	07/18/17 06:00	07/18/17 09:59	1
1,3-Dichlorobenzene	ND		0.0041	0.0013	mg/Kg	☼	07/18/17 06:00	07/18/17 09:59	1
1,4-Dichlorobenzene	ND		0.0041	0.00083	mg/Kg	☼	07/18/17 06:00	07/18/17 09:59	1
1,1-Dichloroethane	ND		0.0041	0.0015	mg/Kg	☼	07/18/17 06:00	07/18/17 09:59	1
1,2-Dichloroethane	ND		0.0041	0.0012	mg/Kg	☼	07/18/17 06:00	07/18/17 09:59	1
1,1-Dichloroethene	ND		0.0041	0.0023	mg/Kg	☼	07/18/17 06:00	07/18/17 09:59	1
Ethylbenzene	ND		0.0041	0.0018	mg/Kg	☼	07/18/17 06:00	07/18/17 09:59	1
Methylene Chloride	ND		0.0041	0.0019	mg/Kg	☼	07/18/17 06:00	07/18/17 09:59	1
Methyl tert-butyl ether	ND		0.0041	0.0030	mg/Kg	☼	07/18/17 06:00	07/18/17 09:59	1
n-Butylbenzene	ND		0.0041	0.0031	mg/Kg	☼	07/18/17 06:00	07/18/17 09:59	1
N-Propylbenzene	ND		0.0041	0.0017	mg/Kg	☼	07/18/17 06:00	07/18/17 09:59	1
sec-Butylbenzene	ND		0.0041	0.0020	mg/Kg	☼	07/18/17 06:00	07/18/17 09:59	1
tert-Butylbenzene	ND		0.0041	0.0015	mg/Kg	☼	07/18/17 06:00	07/18/17 09:59	1
Tetrachloroethene	ND		0.0041	0.0016	mg/Kg	☼	07/18/17 06:00	07/18/17 09:59	1
Toluene	ND		0.0041	0.0014	mg/Kg	☼	07/18/17 06:00	07/18/17 09:59	1
trans-1,2-Dichloroethene	ND		0.0041	0.0021	mg/Kg	☼	07/18/17 06:00	07/18/17 09:59	1
1,1,1-Trichloroethane	ND		0.0041	0.0021	mg/Kg	☼	07/18/17 06:00	07/18/17 09:59	1
Trichloroethene	ND		0.0041	0.0012	mg/Kg	☼	07/18/17 06:00	07/18/17 09:59	1
1,2,4-Trimethylbenzene	ND		0.0041	0.0011	mg/Kg	☼	07/18/17 06:00	07/18/17 09:59	1
1,3,5-Trimethylbenzene	ND		0.0041	0.0014	mg/Kg	☼	07/18/17 06:00	07/18/17 09:59	1
Vinyl chloride	ND		0.0041	0.0030	mg/Kg	☼	07/18/17 06:00	07/18/17 09:59	1
Xylenes, Total	ND		0.0082	0.0035	mg/Kg	☼	07/18/17 06:00	07/18/17 09:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*63 - 120*	*07/18/17 06:00*	*07/18/17 09:59*	*1*
Dibromofluoromethane (Surr)	*97*		*68 - 121*	*07/18/17 06:00*	*07/18/17 09:59*	*1*
1,2-Dichloroethane-d4 (Surr)	*86*		*52 - 124*	*07/18/17 06:00*	*07/18/17 09:59*	*1*
Toluene-d8 (Surr)	*120*		*72 - 127*	*07/18/17 06:00*	*07/18/17 09:59*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**8.8**		0.1	0.1	%			07/17/17 15:21	1
Percent Solids	**91.2**		0.1	0.1	%			07/17/17 15:21	1

Client Sample ID: W4, S2, B 71317 — Lab Sample ID: 180-68219-43

Date Collected: 07/13/17 14:50 — **Matrix: Solid**
Date Received: 07/14/17 13:15 — **Percent Solids: 92.4**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.018	0.0029	mg/Kg	☼	07/18/17 06:00	07/18/17 10:22	1
Benzene	ND		0.0046	0.0018	mg/Kg	☼	07/18/17 06:00	07/18/17 10:22	1
2-Butanone (MEK)	ND		0.0046	0.0026	mg/Kg	☼	07/18/17 06:00	07/18/17 10:22	1
Carbon tetrachloride	ND		0.0046	0.0030	mg/Kg	☼	07/18/17 06:00	07/18/17 10:22	1
Chlorobenzene	ND		0.0046	0.0014	mg/Kg	☼	07/18/17 06:00	07/18/17 10:22	1
Chloroform	ND		0.0046	0.0019	mg/Kg	☼	07/18/17 06:00	07/18/17 10:22	1
cis-1,2-Dichloroethene	ND		0.0046	0.0014	mg/Kg	☼	07/18/17 06:00	07/18/17 10:22	1
1,2-Dichlorobenzene	ND		0.0046	0.0037	mg/Kg	☼	07/18/17 06:00	07/18/17 10:22	1
1,3-Dichlorobenzene	ND		0.0046	0.0015	mg/Kg	☼	07/18/17 06:00	07/18/17 10:22	1

Client Sample ID: W4, S2, B 71317 — Lab Sample ID: 180-68219-43

Date Collected: 07/13/17 14:50 — **Matrix: Solid**
Date Received: 07/14/17 13:15 — **Percent Solids: 92.4**

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		0.0046	0.00093	mg/Kg	☼	07/18/17 06:00	07/18/17 10:22	1
1,1-Dichloroethane	ND		0.0046	0.0017	mg/Kg	☼	07/18/17 06:00	07/18/17 10:22	1
1,2-Dichloroethane	ND		0.0046	0.0013	mg/Kg	☼	07/18/17 06:00	07/18/17 10:22	1
1,1-Dichloroethene	ND		0.0046	0.0026	mg/Kg	☼	07/18/17 06:00	07/18/17 10:22	1
Ethylbenzene	ND		0.0046	0.0020	mg/Kg	☼	07/18/17 06:00	07/18/17 10:22	1
Methylene Chloride	ND		0.0046	0.0022	mg/Kg	☼	07/18/17 06:00	07/18/17 10:22	1
Methyl tert-butyl ether	ND		0.0046	0.0034	mg/Kg	☼	07/18/17 06:00	07/18/17 10:22	1
n-Butylbenzene	ND		0.0046	0.0035	mg/Kg	☼	07/18/17 06:00	07/18/17 10:22	1
N-Propylbenzene	ND		0.0046	0.0019	mg/Kg	☼	07/18/17 06:00	07/18/17 10:22	1
sec-Butylbenzene	ND		0.0046	0.0022	mg/Kg	☼	07/18/17 06:00	07/18/17 10:22	1
tert-Butylbenzene	ND		0.0046	0.0017	mg/Kg	☼	07/18/17 06:00	07/18/17 10:22	1
Tetrachloroethene	ND		0.0046	0.0018	mg/Kg	☼	07/18/17 06:00	07/18/17 10:22	1
Toluene	ND		0.0046	0.0015	mg/Kg	☼	07/18/17 06:00	07/18/17 10:22	1
trans-1,2-Dichloroethene	ND		0.0046	0.0023	mg/Kg	☼	07/18/17 06:00	07/18/17 10:22	1
1,1,1-Trichloroethane	ND		0.0046	0.0023	mg/Kg	☼	07/18/17 06:00	07/18/17 10:22	1
Trichloroethene	ND		0.0046	0.0014	mg/Kg	☼	07/18/17 06:00	07/18/17 10:22	1
1,2,4-Trimethylbenzene	ND		0.0046	0.0012	mg/Kg	☼	07/18/17 06:00	07/18/17 10:22	1
1,3,5-Trimethylbenzene	ND		0.0046	0.0016	mg/Kg	☼	07/18/17 06:00	07/18/17 10:22	1
Vinyl chloride	ND		0.0046	0.0034	mg/Kg	☼	07/18/17 06:00	07/18/17 10:22	1
Xylenes, Total	ND		0.0091	0.0039	mg/Kg	☼	07/18/17 06:00	07/18/17 10:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*63 - 120*	*07/18/17 06:00*	*07/18/17 10:22*	*1*
Dibromofluoromethane (Surr)	*89*		*68 - 121*	*07/18/17 06:00*	*07/18/17 10:22*	*1*
1,2-Dichloroethane-d4 (Surr)	*77*		*52 - 124*	*07/18/17 06:00*	*07/18/17 10:22*	*1*
Toluene-d8 (Surr)	*113*		*72 - 127*	*07/18/17 06:00*	*07/18/17 10:22*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**7.6**		0.1	0.1	%			07/17/17 15:21	1
Percent Solids	**92.4**		0.1	0.1	%			07/17/17 15:21	1

Client Sample ID: W4, S4, A 71317 — Lab Sample ID: 180-68219-44

Date Collected: 07/13/17 15:15 — **Matrix: Solid**
Date Received: 07/14/17 13:15 — **Percent Solids: 88.7**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.018	0.0028	mg/Kg	☼	07/18/17 06:00	07/18/17 08:51	1
Benzene	ND		0.0044	0.0017	mg/Kg	☼	07/18/17 06:00	07/18/17 08:51	1
2-Butanone (MEK)	ND		0.0044	0.0026	mg/Kg	☼	07/18/17 06:00	07/18/17 08:51	1
Carbon tetrachloride	ND		0.0044	0.0029	mg/Kg	☼	07/18/17 06:00	07/18/17 08:51	1
Chlorobenzene	ND		0.0044	0.0014	mg/Kg	☼	07/18/17 06:00	07/18/17 08:51	1
Chloroform	ND		0.0044	0.0019	mg/Kg	☼	07/18/17 06:00	07/18/17 08:51	1
cis-1,2-Dichloroethene	ND		0.0044	0.0014	mg/Kg	☼	07/18/17 06:00	07/18/17 08:51	1
1,2-Dichlorobenzene	ND		0.0044	0.0036	mg/Kg	☼	07/18/17 06:00	07/18/17 08:51	1
1,3-Dichlorobenzene	ND		0.0044	0.0014	mg/Kg	☼	07/18/17 06:00	07/18/17 08:51	1
1,4-Dichlorobenzene	ND		0.0044	0.00090	mg/Kg	☼	07/18/17 06:00	07/18/17 08:51	1
1,1-Dichloroethane	ND		0.0044	0.0016	mg/Kg	☼	07/18/17 06:00	07/18/17 08:51	1
1,2-Dichloroethane	ND		0.0044	0.0013	mg/Kg	☼	07/18/17 06:00	07/18/17 08:51	1

Client Sample ID: W4, S4, A 71317

Lab Sample ID: 180-68219-44
Date Collected: 07/13/17 15:15
Matrix: Solid
Date Received: 07/14/17 13:15
Percent Solids: 88.7

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		0.0044	0.0025	mg/Kg	☼	07/18/17 06:00	07/18/17 08:51	1
Ethylbenzene	ND		0.0044	0.0019	mg/Kg	☼	07/18/17 06:00	07/18/17 08:51	1
Methylene Chloride	ND		0.0044	0.0021	mg/Kg	☼	07/18/17 06:00	07/18/17 08:51	1
Methyl tert-butyl ether	ND		0.0044	0.0033	mg/Kg	☼	07/18/17 06:00	07/18/17 08:51	1
n-Butylbenzene	ND		0.0044	0.0033	mg/Kg	☼	07/18/17 06:00	07/18/17 08:51	1
N-Propylbenzene	ND		0.0044	0.0019	mg/Kg	☼	07/18/17 06:00	07/18/17 08:51	1
sec-Butylbenzene	ND		0.0044	0.0022	mg/Kg	☼	07/18/17 06:00	07/18/17 08:51	1
tert-Butylbenzene	ND		0.0044	0.0016	mg/Kg	☼	07/18/17 06:00	07/18/17 08:51	1
Tetrachloroethene	ND		0.0044	0.0018	mg/Kg	☼	07/18/17 06:00	07/18/17 08:51	1
Toluene	ND		0.0044	0.0015	mg/Kg	☼	07/18/17 06:00	07/18/17 08:51	1
trans-1,2-Dichloroethene	ND		0.0044	0.0022	mg/Kg	☼	07/18/17 06:00	07/18/17 08:51	1
1,1,1-Trichloroethane	ND		0.0044	0.0022	mg/Kg	☼	07/18/17 06:00	07/18/17 08:51	1
Trichloroethene	ND		0.0044	0.0013	mg/Kg	☼	07/18/17 06:00	07/18/17 08:51	1
1,2,4-Trimethylbenzene	ND		0.0044	0.0012	mg/Kg	☼	07/18/17 06:00	07/18/17 08:51	1
1,3,5-Trimethylbenzene	ND		0.0044	0.0015	mg/Kg	☼	07/18/17 06:00	07/18/17 08:51	1
Vinyl chloride	ND		0.0044	0.0032	mg/Kg	☼	07/18/17 06:00	07/18/17 08:51	1
Xylenes, Total	ND		0.0088	0.0038	mg/Kg	☼	07/18/17 06:00	07/18/17 08:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*63 - 120*	*07/18/17 06:00*	*07/18/17 08:51*	*1*
Dibromofluoromethane (Surr)	*90*		*68 - 121*	*07/18/17 06:00*	*07/18/17 08:51*	*1*
1,2-Dichloroethane-d4 (Surr)	*81*		*52 - 124*	*07/18/17 06:00*	*07/18/17 08:51*	*1*
Toluene-d8 (Surr)	*116*		*72 - 127*	*07/18/17 06:00*	*07/18/17 08:51*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**11.3**		0.1	0.1	%			07/17/17 15:21	1
Percent Solids	**88.7**		0.1	0.1	%			07/17/17 15:21	1

Client Sample ID: W4, S4, B 71317

Lab Sample ID: 180-68219-45
Date Collected: 07/13/17 15:20
Matrix: Solid
Date Received: 07/14/17 13:15
Percent Solids: 89.7

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.019	0.0030	mg/Kg	☼	07/18/17 06:00	07/18/17 10:45	1
Benzene	ND		0.0047	0.0018	mg/Kg	☼	07/18/17 06:00	07/18/17 10:45	1
2-Butanone (MEK)	ND		0.0047	0.0027	mg/Kg	☼	07/18/17 06:00	07/18/17 10:45	1
Carbon tetrachloride	ND		0.0047	0.0031	mg/Kg	☼	07/18/17 06:00	07/18/17 10:45	1
Chlorobenzene	ND		0.0047	0.0015	mg/Kg	☼	07/18/17 06:00	07/18/17 10:45	1
Chloroform	ND		0.0047	0.0020	mg/Kg	☼	07/18/17 06:00	07/18/17 10:45	1
cis-1,2-Dichloroethene	ND		0.0047	0.0015	mg/Kg	☼	07/18/17 06:00	07/18/17 10:45	1
1,2-Dichlorobenzene	ND		0.0047	0.0038	mg/Kg	☼	07/18/17 06:00	07/18/17 10:45	1
1,3-Dichlorobenzene	ND		0.0047	0.0015	mg/Kg	☼	07/18/17 06:00	07/18/17 10:45	1
1,4-Dichlorobenzene	ND		0.0047	0.00096	mg/Kg	☼	07/18/17 06:00	07/18/17 10:45	1
1,1-Dichloroethane	ND		0.0047	0.0017	mg/Kg	☼	07/18/17 06:00	07/18/17 10:45	1
1,2-Dichloroethane	ND		0.0047	0.0014	mg/Kg	☼	07/18/17 06:00	07/18/17 10:45	1
1,1-Dichloroethene	ND		0.0047	0.0027	mg/Kg	☼	07/18/17 06:00	07/18/17 10:45	1
Ethylbenzene	ND		0.0047	0.0020	mg/Kg	☼	07/18/17 06:00	07/18/17 10:45	1
Methylene Chloride	ND		0.0047	0.0022	mg/Kg	☼	07/18/17 06:00	07/18/17 10:45	1

Client Sample ID: W4, S4, B 71317 — Lab Sample ID: 180-68219-45

Date Collected: 07/13/17 15:20 — **Matrix: Solid**
Date Received: 07/14/17 13:15 — **Percent Solids: 89.7**

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.0047	0.0035	mg/Kg	☼	07/18/17 06:00	07/18/17 10:45	1
n-Butylbenzene	ND		0.0047	0.0036	mg/Kg	☼	07/18/17 06:00	07/18/17 10:45	1
N-Propylbenzene	ND		0.0047	0.0020	mg/Kg	☼	07/18/17 06:00	07/18/17 10:45	1
sec-Butylbenzene	ND		0.0047	0.0023	mg/Kg	☼	07/18/17 06:00	07/18/17 10:45	1
tert-Butylbenzene	ND		0.0047	0.0017	mg/Kg	☼	07/18/17 06:00	07/18/17 10:45	1
Tetrachloroethene	ND		0.0047	0.0019	mg/Kg	☼	07/18/17 06:00	07/18/17 10:45	1
Toluene	ND		0.0047	0.0016	mg/Kg	☼	07/18/17 06:00	07/18/17 10:45	1
trans-1,2-Dichloroethene	ND		0.0047	0.0024	mg/Kg	☼	07/18/17 06:00	07/18/17 10:45	1
1,1,1-Trichloroethane	ND		0.0047	0.0024	mg/Kg	☼	07/18/17 06:00	07/18/17 10:45	1
Trichloroethene	ND		0.0047	0.0014	mg/Kg	☼	07/18/17 06:00	07/18/17 10:45	1
1,2,4-Trimethylbenzene	ND		0.0047	0.0013	mg/Kg	☼	07/18/17 06:00	07/18/17 10:45	1
1,3,5-Trimethylbenzene	ND		0.0047	0.0016	mg/Kg	☼	07/18/17 06:00	07/18/17 10:45	1
Vinyl chloride	ND		0.0047	0.0034	mg/Kg	☼	07/18/17 06:00	07/18/17 10:45	1
Xylenes, Total	ND		0.0094	0.0040	mg/Kg	☼	07/18/17 06:00	07/18/17 10:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*63 - 120*	*07/18/17 06:00*	*07/18/17 10:45*	*1*
Dibromofluoromethane (Surr)	*95*		*68 - 121*	*07/18/17 06:00*	*07/18/17 10:45*	*1*
1,2-Dichloroethane-d4 (Surr)	*83*		*52 - 124*	*07/18/17 06:00*	*07/18/17 10:45*	*1*
Toluene-d8 (Surr)	*119*		*72 - 127*	*07/18/17 06:00*	*07/18/17 10:45*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**10.3**		0.1	0.1	%			07/17/17 15:21	1
Percent Solids	**89.7**		0.1	0.1	%			07/17/17 15:21	1

Client Sample ID: W4, S5, A 71317 — Lab Sample ID: 180-68219-46

Date Collected: 07/13/17 15:45 — **Matrix: Solid**
Date Received: 07/14/17 13:15 — **Percent Solids: 90.0**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.018	0.0028	mg/Kg	☼	07/18/17 06:00	07/18/17 11:07	1
Benzene	ND		0.0045	0.0018	mg/Kg	☼	07/18/17 06:00	07/18/17 11:07	1
2-Butanone (MEK)	ND		0.0045	0.0026	mg/Kg	☼	07/18/17 06:00	07/18/17 11:07	1
Carbon tetrachloride	ND		0.0045	0.0030	mg/Kg	☼	07/18/17 06:00	07/18/17 11:07	1
Chlorobenzene	ND		0.0045	0.0014	mg/Kg	☼	07/18/17 06:00	07/18/17 11:07	1
Chloroform	ND		0.0045	0.0019	mg/Kg	☼	07/18/17 06:00	07/18/17 11:07	1
cis-1,2-Dichloroethene	ND		0.0045	0.0014	mg/Kg	☼	07/18/17 06:00	07/18/17 11:07	1
1,2-Dichlorobenzene	ND		0.0045	0.0036	mg/Kg	☼	07/18/17 06:00	07/18/17 11:07	1
1,3-Dichlorobenzene	ND		0.0045	0.0014	mg/Kg	☼	07/18/17 06:00	07/18/17 11:07	1
1,4-Dichlorobenzene	ND		0.0045	0.00091	mg/Kg	☼	07/18/17 06:00	07/18/17 11:07	1
1,1-Dichloroethane	ND		0.0045	0.0016	mg/Kg	☼	07/18/17 06:00	07/18/17 11:07	1
1,2-Dichloroethane	ND		0.0045	0.0013	mg/Kg	☼	07/18/17 06:00	07/18/17 11:07	1
1,1-Dichloroethene	ND		0.0045	0.0025	mg/Kg	☼	07/18/17 06:00	07/18/17 11:07	1
Ethylbenzene	ND		0.0045	0.0019	mg/Kg	☼	07/18/17 06:00	07/18/17 11:07	1
Methylene Chloride	ND		0.0045	0.0021	mg/Kg	☼	07/18/17 06:00	07/18/17 11:07	1
Methyl tert-butyl ether	ND		0.0045	0.0033	mg/Kg	☼	07/18/17 06:00	07/18/17 11:07	1
n-Butylbenzene	ND		0.0045	0.0034	mg/Kg	☼	07/18/17 06:00	07/18/17 11:07	1
N-Propylbenzene	ND		0.0045	0.0019	mg/Kg	☼	07/18/17 06:00	07/18/17 11:07	1

Client Sample ID: W4, S5, A 71317 — Lab Sample ID: 180-68219-46

Date Collected: 07/13/17 15:45 — **Matrix: Solid**
Date Received: 07/14/17 13:15 — **Percent Solids: 90.0**

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		0.0045	0.0022	mg/Kg	☼	07/18/17 06:00	07/18/17 11:07	1
tert-Butylbenzene	ND		0.0045	0.0016	mg/Kg	☼	07/18/17 06:00	07/18/17 11:07	1
Tetrachloroethene	ND		0.0045	0.0018	mg/Kg	☼	07/18/17 06:00	07/18/17 11:07	1
Toluene	ND		0.0045	0.0015	mg/Kg	☼	07/18/17 06:00	07/18/17 11:07	1
trans-1,2-Dichloroethene	ND		0.0045	0.0023	mg/Kg	☼	07/18/17 06:00	07/18/17 11:07	1
1,1,1-Trichloroethane	ND		0.0045	0.0022	mg/Kg	☼	07/18/17 06:00	07/18/17 11:07	1
Trichloroethene	ND		0.0045	0.0013	mg/Kg	☼	07/18/17 06:00	07/18/17 11:07	1
1,2,4-Trimethylbenzene	ND		0.0045	0.0012	mg/Kg	☼	07/18/17 06:00	07/18/17 11:07	1
1,3,5-Trimethylbenzene	ND		0.0045	0.0015	mg/Kg	☼	07/18/17 06:00	07/18/17 11:07	1
Vinyl chloride	ND		0.0045	0.0033	mg/Kg	☼	07/18/17 06:00	07/18/17 11:07	1
Xylenes, Total	ND		0.0089	0.0038	mg/Kg	☼	07/18/17 06:00	07/18/17 11:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*63 - 120*	*07/18/17 06:00*	*07/18/17 11:07*	*1*
Dibromofluoromethane (Surr)	*104*		*68 - 121*	*07/18/17 06:00*	*07/18/17 11:07*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*52 - 124*	*07/18/17 06:00*	*07/18/17 11:07*	*1*
Toluene-d8 (Surr)	*127*		*72 - 127*	*07/18/17 06:00*	*07/18/17 11:07*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**10.0**		0.1	0.1	%			07/18/17 11:56	1
Percent Solids	**90.0**		0.1	0.1	%			07/18/17 11:56	1

Client Sample ID: W4, S5, B 71317 — Lab Sample ID: 180-68219-47

Date Collected: 07/13/17 15:50 — **Matrix: Solid**
Date Received: 07/14/17 13:15 — **Percent Solids: 91.4**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.019	0.0030	mg/Kg	☼	07/18/17 06:00	07/18/17 11:30	1
Benzene	ND		0.0047	0.0018	mg/Kg	☼	07/18/17 06:00	07/18/17 11:30	1
2-Butanone (MEK)	ND		0.0047	0.0027	mg/Kg	☼	07/18/17 06:00	07/18/17 11:30	1
Carbon tetrachloride	ND		0.0047	0.0031	mg/Kg	☼	07/18/17 06:00	07/18/17 11:30	1
Chlorobenzene	ND		0.0047	0.0015	mg/Kg	☼	07/18/17 06:00	07/18/17 11:30	1
Chloroform	ND		0.0047	0.0020	mg/Kg	☼	07/18/17 06:00	07/18/17 11:30	1
cis-1,2-Dichloroethene	ND		0.0047	0.0015	mg/Kg	☼	07/18/17 06:00	07/18/17 11:30	1
1,2-Dichlorobenzene	ND		0.0047	0.0038	mg/Kg	☼	07/18/17 06:00	07/18/17 11:30	1
1,3-Dichlorobenzene	ND		0.0047	0.0015	mg/Kg	☼	07/18/17 06:00	07/18/17 11:30	1
1,4-Dichlorobenzene	ND		0.0047	0.00096	mg/Kg	☼	07/18/17 06:00	07/18/17 11:30	1
1,1-Dichloroethane	ND		0.0047	0.0017	mg/Kg	☼	07/18/17 06:00	07/18/17 11:30	1
1,2-Dichloroethane	ND		0.0047	0.0014	mg/Kg	☼	07/18/17 06:00	07/18/17 11:30	1
1,1-Dichloroethene	ND		0.0047	0.0027	mg/Kg	☼	07/18/17 06:00	07/18/17 11:30	1
Ethylbenzene	ND		0.0047	0.0020	mg/Kg	☼	07/18/17 06:00	07/18/17 11:30	1
Methylene Chloride	ND		0.0047	0.0022	mg/Kg	☼	07/18/17 06:00	07/18/17 11:30	1
Methyl tert-butyl ether	ND		0.0047	0.0035	mg/Kg	☼	07/18/17 06:00	07/18/17 11:30	1
n-Butylbenzene	ND		0.0047	0.0036	mg/Kg	☼	07/18/17 06:00	07/18/17 11:30	1
N-Propylbenzene	ND		0.0047	0.0020	mg/Kg	☼	07/18/17 06:00	07/18/17 11:30	1
sec-Butylbenzene	ND		0.0047	0.0023	mg/Kg	☼	07/18/17 06:00	07/18/17 11:30	1
tert-Butylbenzene	ND		0.0047	0.0017	mg/Kg	☼	07/18/17 06:00	07/18/17 11:30	1
Tetrachloroethene	ND		0.0047	0.0019	mg/Kg	☼	07/18/17 06:00	07/18/17 11:30	1

Client Sample ID: W4, S5, B 71317

Lab Sample ID: 180-68219-47

Date Collected: 07/13/17 15:50
Matrix: Solid
Date Received: 07/14/17 13:15
Percent Solids: 91.4

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		0.0047	0.0016	mg/Kg	☼	07/18/17 06:00	07/18/17 11:30	1
trans-1,2-Dichloroethene	ND		0.0047	0.0024	mg/Kg	☼	07/18/17 06:00	07/18/17 11:30	1
1,1,1-Trichloroethane	ND		0.0047	0.0024	mg/Kg	☼	07/18/17 06:00	07/18/17 11:30	1
Trichloroethene	ND		0.0047	0.0014	mg/Kg	☼	07/18/17 06:00	07/18/17 11:30	1
1,2,4-Trimethylbenzene	ND		0.0047	0.0013	mg/Kg	☼	07/18/17 06:00	07/18/17 11:30	1
1,3,5-Trimethylbenzene	ND		0.0047	0.0016	mg/Kg	☼	07/18/17 06:00	07/18/17 11:30	1
Vinyl chloride	ND		0.0047	0.0035	mg/Kg	☼	07/18/17 06:00	07/18/17 11:30	1
Xylenes, Total	ND		0.0094	0.0041	mg/Kg	☼	07/18/17 06:00	07/18/17 11:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*63 - 120*	*07/18/17 06:00*	*07/18/17 11:30*	*1*
Dibromofluoromethane (Surr)	*88*		*68 - 121*	*07/18/17 06:00*	*07/18/17 11:30*	*1*
1,2-Dichloroethane-d4 (Surr)	*79*		*52 - 124*	*07/18/17 06:00*	*07/18/17 11:30*	*1*
Toluene-d8 (Surr)	*109*		*72 - 127*	*07/18/17 06:00*	*07/18/17 11:30*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**8.6**		0.1	0.1	%			07/18/17 11:56	1
Percent Solids	**91.4**		0.1	0.1	%			07/18/17 11:56	1

Client Sample ID: W4, S3, A 71317

Lab Sample ID: 180-68219-48

Date Collected: 07/13/17 16:00
Matrix: Solid
Date Received: 07/14/17 13:15
Percent Solids: 91.7

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.019	0.0029	mg/Kg	☼	07/18/17 06:00	07/18/17 11:52	1
Benzene	ND		0.0046	0.0018	mg/Kg	☼	07/18/17 06:00	07/18/17 11:52	1
2-Butanone (MEK)	ND		0.0046	0.0027	mg/Kg	☼	07/18/17 06:00	07/18/17 11:52	1
Carbon tetrachloride	ND		0.0046	0.0031	mg/Kg	☼	07/18/17 06:00	07/18/17 11:52	1
Chlorobenzene	ND		0.0046	0.0015	mg/Kg	☼	07/18/17 06:00	07/18/17 11:52	1
Chloroform	ND		0.0046	0.0020	mg/Kg	☼	07/18/17 06:00	07/18/17 11:52	1
cis-1,2-Dichloroethene	ND		0.0046	0.0015	mg/Kg	☼	07/18/17 06:00	07/18/17 11:52	1
1,2-Dichlorobenzene	ND		0.0046	0.0037	mg/Kg	☼	07/18/17 06:00	07/18/17 11:52	1
1,3-Dichlorobenzene	ND		0.0046	0.0015	mg/Kg	☼	07/18/17 06:00	07/18/17 11:52	1
1,4-Dichlorobenzene	ND		0.0046	0.00094	mg/Kg	☼	07/18/17 06:00	07/18/17 11:52	1
1,1-Dichloroethane	ND		0.0046	0.0017	mg/Kg	☼	07/18/17 06:00	07/18/17 11:52	1
1,2-Dichloroethane	ND		0.0046	0.0013	mg/Kg	☼	07/18/17 06:00	07/18/17 11:52	1
1,1-Dichloroethene	ND		0.0046	0.0026	mg/Kg	☼	07/18/17 06:00	07/18/17 11:52	1
Ethylbenzene	ND		0.0046	0.0020	mg/Kg	☼	07/18/17 06:00	07/18/17 11:52	1
Methylene Chloride	ND		0.0046	0.0022	mg/Kg	☼	07/18/17 06:00	07/18/17 11:52	1
Methyl tert-butyl ether	ND		0.0046	0.0034	mg/Kg	☼	07/18/17 06:00	07/18/17 11:52	1
n-Butylbenzene	ND		0.0046	0.0035	mg/Kg	☼	07/18/17 06:00	07/18/17 11:52	1
N-Propylbenzene	ND		0.0046	0.0020	mg/Kg	☼	07/18/17 06:00	07/18/17 11:52	1
sec-Butylbenzene	ND		0.0046	0.0023	mg/Kg	☼	07/18/17 06:00	07/18/17 11:52	1
tert-Butylbenzene	ND		0.0046	0.0017	mg/Kg	☼	07/18/17 06:00	07/18/17 11:52	1
Tetrachloroethene	ND		0.0046	0.0019	mg/Kg	☼	07/18/17 06:00	07/18/17 11:52	1
Toluene	ND		0.0046	0.0016	mg/Kg	☼	07/18/17 06:00	07/18/17 11:52	1
trans-1,2-Dichloroethene	ND		0.0046	0.0023	mg/Kg	☼	07/18/17 06:00	07/18/17 11:52	1
1,1,1-Trichloroethane	ND		0.0046	0.0023	mg/Kg	☼	07/18/17 06:00	07/18/17 11:52	1

Client Sample ID: W4, S3, A 71317

Lab Sample ID: 180-68219-48
Date Collected: 07/13/17 16:00
Matrix: Solid
Date Received: 07/14/17 13:15
Percent Solids: 91.7

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	ND		0.0046	0.0014	mg/Kg	☼	07/18/17 06:00	07/18/17 11:52	1
1,2,4-Trimethylbenzene	ND		0.0046	0.0012	mg/Kg	☼	07/18/17 06:00	07/18/17 11:52	1
1,3,5-Trimethylbenzene	ND		0.0046	0.0016	mg/Kg	☼	07/18/17 06:00	07/18/17 11:52	1
Vinyl chloride	ND		0.0046	0.0034	mg/Kg	☼	07/18/17 06:00	07/18/17 11:52	1
Xylenes, Total	ND		0.0093	0.0040	mg/Kg	☼	07/18/17 06:00	07/18/17 11:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*63 - 120*	*07/18/17 06:00*	*07/18/17 11:52*	*1*
Dibromofluoromethane (Surr)	*94*		*68 - 121*	*07/18/17 06:00*	*07/18/17 11:52*	*1*
1,2-Dichloroethane-d4 (Surr)	*83*		*52 - 124*	*07/18/17 06:00*	*07/18/17 11:52*	*1*
Toluene-d8 (Surr)	*117*		*72 - 127*	*07/18/17 06:00*	*07/18/17 11:52*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**8.3**		0.1	0.1	%			07/17/17 15:21	1
Percent Solids	**91.7**		0.1	0.1	%			07/17/17 15:21	1

Client Sample ID: W4, S3, B 71317

Lab Sample ID: 180-68219-49
Date Collected: 07/13/17 16:05
Matrix: Solid
Date Received: 07/14/17 13:15
Percent Solids: 91.3

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.020	0.0031	mg/Kg	☼	07/18/17 06:00	07/18/17 12:15	1
Benzene	ND		0.0049	0.0019	mg/Kg	☼	07/18/17 06:00	07/18/17 12:15	1
2-Butanone (MEK)	ND		0.0049	0.0029	mg/Kg	☼	07/18/17 06:00	07/18/17 12:15	1
Carbon tetrachloride	ND		0.0049	0.0033	mg/Kg	☼	07/18/17 06:00	07/18/17 12:15	1
Chlorobenzene	ND		0.0049	0.0016	mg/Kg	☼	07/18/17 06:00	07/18/17 12:15	1
Chloroform	ND		0.0049	0.0021	mg/Kg	☼	07/18/17 06:00	07/18/17 12:15	1
cis-1,2-Dichloroethene	ND		0.0049	0.0016	mg/Kg	☼	07/18/17 06:00	07/18/17 12:15	1
1,2-Dichlorobenzene	ND		0.0049	0.0040	mg/Kg	☼	07/18/17 06:00	07/18/17 12:15	1
1,3-Dichlorobenzene	ND		0.0049	0.0016	mg/Kg	☼	07/18/17 06:00	07/18/17 12:15	1
1,4-Dichlorobenzene	ND		0.0049	0.0010	mg/Kg	☼	07/18/17 06:00	07/18/17 12:15	1
1,1-Dichloroethane	ND		0.0049	0.0018	mg/Kg	☼	07/18/17 06:00	07/18/17 12:15	1
1,2-Dichloroethane	ND		0.0049	0.0014	mg/Kg	☼	07/18/17 06:00	07/18/17 12:15	1
1,1-Dichloroethene	ND		0.0049	0.0028	mg/Kg	☼	07/18/17 06:00	07/18/17 12:15	1
Ethylbenzene	ND		0.0049	0.0021	mg/Kg	☼	07/18/17 06:00	07/18/17 12:15	1
Methylene Chloride	ND		0.0049	0.0023	mg/Kg	☼	07/18/17 06:00	07/18/17 12:15	1
Methyl tert-butyl ether	ND		0.0049	0.0036	mg/Kg	☼	07/18/17 06:00	07/18/17 12:15	1
n-Butylbenzene	ND		0.0049	0.0037	mg/Kg	☼	07/18/17 06:00	07/18/17 12:15	1
N-Propylbenzene	ND		0.0049	0.0021	mg/Kg	☼	07/18/17 06:00	07/18/17 12:15	1
sec-Butylbenzene	ND		0.0049	0.0024	mg/Kg	☼	07/18/17 06:00	07/18/17 12:15	1
tert-Butylbenzene	ND		0.0049	0.0018	mg/Kg	☼	07/18/17 06:00	07/18/17 12:15	1
Tetrachloroethene	ND		0.0049	0.0020	mg/Kg	☼	07/18/17 06:00	07/18/17 12:15	1
Toluene	ND		0.0049	0.0017	mg/Kg	☼	07/18/17 06:00	07/18/17 12:15	1
trans-1,2-Dichloroethene	ND		0.0049	0.0025	mg/Kg	☼	07/18/17 06:00	07/18/17 12:15	1
1,1,1-Trichloroethane	ND		0.0049	0.0025	mg/Kg	☼	07/18/17 06:00	07/18/17 12:15	1
Trichloroethene	ND		0.0049	0.0015	mg/Kg	☼	07/18/17 06:00	07/18/17 12:15	1
1,2,4-Trimethylbenzene	ND		0.0049	0.0013	mg/Kg	☼	07/18/17 06:00	07/18/17 12:15	1
1,3,5-Trimethylbenzene	ND		0.0049	0.0017	mg/Kg	☼	07/18/17 06:00	07/18/17 12:15	1

Client Sample ID: W4, S3, B 71317 **Lab Sample ID: 180-68219-49**
Date Collected: 07/13/17 16:05 **Matrix: Solid**
Date Received: 07/14/17 13:15 **Percent Solids: 91.3**

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		0.0049	0.0036	mg/Kg	☼	07/18/17 06:00	07/18/17 12:15	1
Xylenes, Total	ND		0.0098	0.0042	mg/Kg	☼	07/18/17 06:00	07/18/17 12:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*63 - 120*	*07/18/17 06:00*	*07/18/17 12:15*	*1*
Dibromofluoromethane (Surr)	*93*		*68 - 121*	*07/18/17 06:00*	*07/18/17 12:15*	*1*
1,2-Dichloroethane-d4 (Surr)	*82*		*52 - 124*	*07/18/17 06:00*	*07/18/17 12:15*	*1*
Toluene-d8 (Surr)	*113*		*72 - 127*	*07/18/17 06:00*	*07/18/17 12:15*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**8.7**		0.1	0.1	%			07/17/17 15:21	1
Percent Solids	**91.3**		0.1	0.1	%			07/17/17 15:21	1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 180-217322/9
Matrix: Solid
Analysis Batch: 217322

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.020	0.0032	mg/Kg			07/18/17 08:28	1
Benzene	ND		0.0050	0.0020	mg/Kg			07/18/17 08:28	1
2-Butanone (MEK)	ND		0.0050	0.0029	mg/Kg			07/18/17 08:28	1
Carbon tetrachloride	ND		0.0050	0.0033	mg/Kg			07/18/17 08:28	1
Chlorobenzene	ND		0.0050	0.0016	mg/Kg			07/18/17 08:28	1
Chloroform	ND		0.0050	0.0021	mg/Kg			07/18/17 08:28	1
cis-1,2-Dichloroethene	ND		0.0050	0.0016	mg/Kg			07/18/17 08:28	1
1,2-Dichlorobenzene	ND		0.0050	0.0040	mg/Kg			07/18/17 08:28	1
1,3-Dichlorobenzene	ND		0.0050	0.0016	mg/Kg			07/18/17 08:28	1
1,4-Dichlorobenzene	ND		0.0050	0.0010	mg/Kg			07/18/17 08:28	1
1,1-Dichloroethane	ND		0.0050	0.0018	mg/Kg			07/18/17 08:28	1
1,2-Dichloroethane	ND		0.0050	0.0015	mg/Kg			07/18/17 08:28	1
1,1-Dichloroethene	ND		0.0050	0.0029	mg/Kg			07/18/17 08:28	1
Ethylbenzene	ND		0.0050	0.0022	mg/Kg			07/18/17 08:28	1
Methylene Chloride	ND		0.0050	0.0024	mg/Kg			07/18/17 08:28	1
Methyl tert-butyl ether	ND		0.0050	0.0037	mg/Kg			07/18/17 08:28	1
n-Butylbenzene	ND		0.0050	0.0038	mg/Kg			07/18/17 08:28	1
N-Propylbenzene	ND		0.0050	0.0021	mg/Kg			07/18/17 08:28	1
sec-Butylbenzene	ND		0.0050	0.0024	mg/Kg			07/18/17 08:28	1
tert-Butylbenzene	ND		0.0050	0.0018	mg/Kg			07/18/17 08:28	1
Tetrachloroethene	ND		0.0050	0.0020	mg/Kg			07/18/17 08:28	1
Toluene	ND		0.0050	0.0017	mg/Kg			07/18/17 08:28	1
trans-1,2-Dichloroethene	ND		0.0050	0.0025	mg/Kg			07/18/17 08:28	1
1,1,1-Trichloroethane	ND		0.0050	0.0025	mg/Kg			07/18/17 08:28	1
Trichloroethene	ND		0.0050	0.0015	mg/Kg			07/18/17 08:28	1
1,2,4-Trimethylbenzene	ND		0.0050	0.0013	mg/Kg			07/18/17 08:28	1
1,3,5-Trimethylbenzene	ND		0.0050	0.0017	mg/Kg			07/18/17 08:28	1
Vinyl chloride	ND		0.0050	0.0037	mg/Kg			07/18/17 08:28	1
Xylenes, Total	ND		0.010	0.0043	mg/Kg			07/18/17 08:28	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*63 - 120*		*07/18/17 08:28*	*1*
Dibromofluoromethane (Surr)	*90*		*68 - 121*		*07/18/17 08:28*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*52 - 124*		*07/18/17 08:28*	*1*
Toluene-d8 (Surr)	*102*		*72 - 127*		*07/18/17 08:28*	*1*

Lab Sample ID: LCS 180-217322/4
Matrix: Solid
Analysis Batch: 217322

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0400	0.0444		mg/Kg		111	20 - 150
Benzene	0.0400	0.0397		mg/Kg		99	77 - 120
2-Butanone (MEK)	0.0400	0.0404		mg/Kg		101	35 - 149
Carbon tetrachloride	0.0400	0.0349		mg/Kg		87	69 - 122
Chlorobenzene	0.0400	0.0383		mg/Kg		96	79 - 120
Chloroform	0.0400	0.0376		mg/Kg		94	72 - 120
cis-1,2-Dichloroethene	0.0400	0.0377		mg/Kg		94	80 - 118

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 180-217322/4
Matrix: Solid
Analysis Batch: 217322

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichlorobenzene	0.0400	0.0394		mg/Kg		98	71 - 124
1,3-Dichlorobenzene	0.0400	0.0401		mg/Kg		100	75 - 118
1,4-Dichlorobenzene	0.0400	0.0395		mg/Kg		99	77 - 116
1,1-Dichloroethane	0.0400	0.0409		mg/Kg		102	66 - 124
1,2-Dichloroethane	0.0400	0.0365		mg/Kg		91	61 - 127
1,1-Dichloroethene	0.0400	0.0377		mg/Kg		94	59 - 129
Ethylbenzene	0.0400	0.0388		mg/Kg		97	78 - 125
Methylene Chloride	0.0400	0.0352		mg/Kg		88	58 - 127
Methyl tert-butyl ether	0.0400	0.0371		mg/Kg		93	48 - 132
n-Butylbenzene	0.0400	0.0426		mg/Kg		107	59 - 145
N-Propylbenzene	0.0400	0.0386		mg/Kg		97	80 - 120
sec-Butylbenzene	0.0400	0.0421		mg/Kg		105	70 - 130
tert-Butylbenzene	0.0400	0.0403		mg/Kg		101	74 - 133
Tetrachloroethene	0.0400	0.0405		mg/Kg		101	78 - 129
Toluene	0.0400	0.0413		mg/Kg		103	78 - 124
trans-1,2-Dichloroethene	0.0400	0.0385		mg/Kg		96	77 - 121
1,1,1-Trichloroethane	0.0400	0.0393		mg/Kg		98	67 - 126
Trichloroethene	0.0400	0.0380		mg/Kg		95	76 - 119
1,2,4-Trimethylbenzene	0.0400	0.0410		mg/Kg		102	80 - 121
1,3,5-Trimethylbenzene	0.0400	0.0411		mg/Kg		103	68 - 133
Vinyl chloride	0.0400	0.0477		mg/Kg		119	63 - 124
Xylenes, Total	0.0800	0.0777		mg/Kg		97	83 - 126

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*63 - 120*
Dibromofluoromethane (Surr)	*96*		*68 - 121*
1,2-Dichloroethane-d4 (Surr)	*95*		*52 - 124*
Toluene-d8 (Surr)	*106*		*72 - 127*

Lab Sample ID: 180-68219-44 MS
Matrix: Solid
Analysis Batch: 217322

Client Sample ID: W4, S4, A 71317
Prep Type: Total/NA
Prep Batch: 217331

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	ND		0.0349	0.0359		mg/Kg	☼	103	20 - 150
Benzene	ND		0.0349	0.0344		mg/Kg	☼	99	77 - 120
2-Butanone (MEK)	ND		0.0349	0.0348		mg/Kg	☼	100	35 - 149
Carbon tetrachloride	ND		0.0349	0.0300		mg/Kg	☼	86	69 - 122
Chlorobenzene	ND		0.0349	0.0336		mg/Kg	☼	96	79 - 120
Chloroform	ND		0.0349	0.0326		mg/Kg	☼	93	72 - 120
cis-1,2-Dichloroethene	ND		0.0349	0.0323		mg/Kg	☼	92	80 - 118
1,2-Dichlorobenzene	ND		0.0349	0.0340		mg/Kg	☼	97	71 - 124
1,3-Dichlorobenzene	ND		0.0349	0.0342		mg/Kg	☼	98	75 - 118
1,4-Dichlorobenzene	ND		0.0349	0.0344		mg/Kg	☼	98	77 - 116
1,1-Dichloroethane	ND		0.0349	0.0357		mg/Kg	☼	102	66 - 124
1,2-Dichloroethane	ND		0.0349	0.0324		mg/Kg	☼	93	61 - 127
1,1-Dichloroethene	ND		0.0349	0.0325		mg/Kg	☼	93	59 - 129
Ethylbenzene	ND		0.0349	0.0330		mg/Kg	☼	95	78 - 125

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 180-68219-44 MS
Matrix: Solid
Analysis Batch: 217322

Client Sample ID: W4, S4, A 71317
Prep Type: Total/NA
Prep Batch: 217331

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Methylene Chloride	ND		0.0349	0.0304		mg/Kg	☼	87	58 - 127
Methyl tert-butyl ether	ND		0.0349	0.0319		mg/Kg	☼	91	48 - 132
n-Butylbenzene	ND		0.0349	0.0362		mg/Kg	☼	104	59 - 145
N-Propylbenzene	ND		0.0349	0.0346		mg/Kg	☼	99	80 - 120
sec-Butylbenzene	ND		0.0349	0.0362		mg/Kg	☼	104	70 - 130
tert-Butylbenzene	ND		0.0349	0.0355		mg/Kg	☼	102	74 - 133
Tetrachloroethene	ND		0.0349	0.0348		mg/Kg	☼	100	78 - 129
Toluene	ND		0.0349	0.0361		mg/Kg	☼	103	78 - 124
trans-1,2-Dichloroethene	ND		0.0349	0.0332		mg/Kg	☼	95	77 - 121
1,1,1-Trichloroethane	ND		0.0349	0.0331		mg/Kg	☼	95	67 - 126
Trichloroethene	ND		0.0349	0.0329		mg/Kg	☼	94	76 - 119
1,2,4-Trimethylbenzene	ND		0.0349	0.0358		mg/Kg	☼	103	80 - 121
1,3,5-Trimethylbenzene	ND		0.0349	0.0357		mg/Kg	☼	102	68 - 133
Vinyl chloride	ND		0.0349	0.0406		mg/Kg	☼	116	63 - 124
Xylenes, Total	ND		0.0698	0.0662		mg/Kg	☼	95	83 - 126

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*63 - 120*
Dibromofluoromethane (Surr)	*96*		*68 - 121*
1,2-Dichloroethane-d4 (Surr)	*95*		*52 - 124*
Toluene-d8 (Surr)	*108*		*72 - 127*

Lab Sample ID: 180-68219-44 MSD
Matrix: Solid
Analysis Batch: 217322

Client Sample ID: W4, S4, A 71317
Prep Type: Total/NA
Prep Batch: 217331

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	ND		0.0348	0.0370		mg/Kg	☼	106	20 - 150	3	40
Benzene	ND		0.0348	0.0336		mg/Kg	☼	97	77 - 120	2	20
2-Butanone (MEK)	ND		0.0348	0.0349		mg/Kg	☼	100	35 - 149	0	36
Carbon tetrachloride	ND		0.0348	0.0296		mg/Kg	☼	85	69 - 122	1	22
Chlorobenzene	ND		0.0348	0.0327		mg/Kg	☼	94	79 - 120	3	20
Chloroform	ND		0.0348	0.0317		mg/Kg	☼	91	72 - 120	3	25
cis-1,2-Dichloroethene	ND		0.0348	0.0318		mg/Kg	☼	92	80 - 118	1	20
1,2-Dichlorobenzene	ND		0.0348	0.0331		mg/Kg	☼	95	71 - 124	3	22
1,3-Dichlorobenzene	ND		0.0348	0.0331		mg/Kg	☼	95	75 - 118	3	20
1,4-Dichlorobenzene	ND		0.0348	0.0329		mg/Kg	☼	95	77 - 116	4	20
1,1-Dichloroethane	ND		0.0348	0.0347		mg/Kg	☼	100	66 - 124	3	23
1,2-Dichloroethane	ND		0.0348	0.0321		mg/Kg	☼	92	61 - 127	1	23
1,1-Dichloroethene	ND		0.0348	0.0328		mg/Kg	☼	94	59 - 129	1	25
Ethylbenzene	ND		0.0348	0.0324		mg/Kg	☼	93	78 - 125	2	21
Methylene Chloride	ND		0.0348	0.0301		mg/Kg	☼	87	58 - 127	1	28
Methyl tert-butyl ether	ND		0.0348	0.0315		mg/Kg	☼	91	48 - 132	1	36
n-Butylbenzene	ND		0.0348	0.0354		mg/Kg	☼	102	59 - 145	2	24
N-Propylbenzene	ND		0.0348	0.0324		mg/Kg	☼	93	80 - 120	7	20
sec-Butylbenzene	ND		0.0348	0.0349		mg/Kg	☼	100	70 - 130	3	21
tert-Butylbenzene	ND		0.0348	0.0341		mg/Kg	☼	98	74 - 133	4	22
Tetrachloroethene	ND		0.0348	0.0332		mg/Kg	☼	95	78 - 129	5	20

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 180-68219-44 MSD
Matrix: Solid
Analysis Batch: 217322

Client Sample ID: W4, S4, A 71317
Prep Type: Total/NA
Prep Batch: 217331

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Toluene	ND		0.0348	0.0350		mg/Kg	☼	101	78 - 124	3	21
trans-1,2-Dichloroethene	ND		0.0348	0.0323		mg/Kg	☼	93	77 - 121	3	20
1,1,1-Trichloroethane	ND		0.0348	0.0320		mg/Kg	☼	92	67 - 126	3	31
Trichloroethene	ND		0.0348	0.0319		mg/Kg	☼	92	76 - 119	3	21
1,2,4-Trimethylbenzene	ND		0.0348	0.0340		mg/Kg	☼	98	80 - 121	5	20
1,3,5-Trimethylbenzene	ND		0.0348	0.0340		mg/Kg	☼	98	68 - 133	5	21
Vinyl chloride	ND		0.0348	0.0404		mg/Kg	☼	116	63 - 124	0	27
Xylenes, Total	ND		0.0696	0.0651		mg/Kg	☼	94	83 - 126	2	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*63 - 120*
Dibromofluoromethane (Surr)	*94*		*68 - 121*
1,2-Dichloroethane-d4 (Surr)	*95*		*52 - 124*
Toluene-d8 (Surr)	*105*		*72 - 127*

GC/MS VOA

Analysis Batch: 217322

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68219-40	W4, S1, A 71317	Total/NA	Solid	8260C	217331
180-68219-41	W4, S1, B 71317	Total/NA	Solid	8260C	217331
180-68219-42	W4, S2, A 71317	Total/NA	Solid	8260C	217331
180-68219-43	W4, S2, B 71317	Total/NA	Solid	8260C	217331
180-68219-44	W4, S4, A 71317	Total/NA	Solid	8260C	217331
180-68219-45	W4, S4, B 71317	Total/NA	Solid	8260C	217331
180-68219-46	W4, S5, A 71317	Total/NA	Solid	8260C	217331
180-68219-47	W4, S5, B 71317	Total/NA	Solid	8260C	217331
180-68219-48	W4, S3, A 71317	Total/NA	Solid	8260C	217331
180-68219-49	W4, S3, B 71317	Total/NA	Solid	8260C	217331
MB 180-217322/9	Method Blank	Total/NA	Solid	8260C	
LCS 180-217322/4	Lab Control Sample	Total/NA	Solid	8260C	
180-68219-44 MS	W4, S4, A 71317	Total/NA	Solid	8260C	217331
180-68219-44 MSD	W4, S4, A 71317	Total/NA	Solid	8260C	217331

Prep Batch: 217331

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68219-40	W4, S1, A 71317	Total/NA	Solid	5035	
180-68219-41	W4, S1, B 71317	Total/NA	Solid	5035	
180-68219-42	W4, S2, A 71317	Total/NA	Solid	5035	
180-68219-43	W4, S2, B 71317	Total/NA	Solid	5035	
180-68219-44	W4, S4, A 71317	Total/NA	Solid	5035	
180-68219-45	W4, S4, B 71317	Total/NA	Solid	5035	
180-68219-46	W4, S5, A 71317	Total/NA	Solid	5035	
180-68219-47	W4, S5, B 71317	Total/NA	Solid	5035	
180-68219-48	W4, S3, A 71317	Total/NA	Solid	5035	
180-68219-49	W4, S3, B 71317	Total/NA	Solid	5035	
180-68219-44 MS	W4, S4, A 71317	Total/NA	Solid	5035	
180-68219-44 MSD	W4, S4, A 71317	Total/NA	Solid	5035	

General Chemistry

Analysis Batch: 217301

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68219-40	W4, S1, A 71317	Total/NA	Solid	2540G	
180-68219-41	W4, S1, B 71317	Total/NA	Solid	2540G	
180-68219-42	W4, S2, A 71317	Total/NA	Solid	2540G	
180-68219-43	W4, S2, B 71317	Total/NA	Solid	2540G	
180-68219-44	W4, S4, A 71317	Total/NA	Solid	2540G	
180-68219-45	W4, S4, B 71317	Total/NA	Solid	2540G	
180-68219-48	W4, S3, A 71317	Total/NA	Solid	2540G	
180-68219-49	W4, S3, B 71317	Total/NA	Solid	2540G	

Analysis Batch: 217396

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68219-46	W4, S5, A 71317	Total/NA	Solid	2540G	
180-68219-47	W4, S5, B 71317	Total/NA	Solid	2540G	

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Phone (412) 963-7058 Fax (412) 963-2468

Chain of Custody Record

180-66219 Chain of Custody

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Alexandra Ambrosino	Lab PM: Dunlap, David A	COC No: 180-38494-8381.1
Client Contact: Ashwin Ranna,Aron Krasnopoler	Phone:	E-Mail: david.dunlap@testamericainc.com	Page: Page 1 of 6
Company: Geosyntec Consultants, Inc.			Job #:
Address: Penn Center West One, Suite 402 1 Penn Center West Drive	Due Date Requested:		
City: Pittsburgh	TAT Requested (days): 1 Day		
State, Zip: PA, 15276			
Phone:	PO #: MN0832B		
Email: aranna@geosyntec.com, Akrasnopoler@geosyntec.com	WO #:		
Project Name: Former Sperry Remington Site - North IRM	Project #: 18013464		
Site: Elmira	SSOW#:		

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - VOA-Select List	6010C, 7471B, 9014 - Select ICP Metals, Mercury, Cyanide	8082A, 8270D, PCBs, Select BNA	8260C - VOA-Select List (Trip Blanks only)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	A		
W6,S1,A 71317	7.13.2017	800	G	Solid	N	Y	X				12	Perform MS MSD 4
W6,S1,B 71317	7.13.2017	805	G	Solid	N	N	X				4	
W6,S1,C 71317	7.13.2017	810	C	Solid	N	Y		X	X		6	Perform MS/MSD 5
W6,S2,A 71317	7.13.2017	820	G	Solid	N	N	X				4	
W6,S2,B 71317	7.13.2017	825	G	Solid	N	N	X			Trip Blank 3	4	
W6,S2,C 71317	7.13.2017	830	C	Solid	N	N		X	X		2	
W6,S3,A 71317	7.13.2017	845	G	Solid	N	N	X				4	
W6,S3,B 71317	7.13.2017	850	G	Solid	N	N	X				4	
W6,S3,C 71317	7.13.2017	855	C	Solid	N	N		X	X		2	
W6,S4,A 71317	7.13.2017	915	G	Solid	N	N	X				4	
W6,S4,B 71317	7.13.2017	920	G	Solid	N	N	X				4	

Rush

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by:	Date/Time:	Company	Received by: / Date/Time: 7/14/17 930 / Company: TAP
Relinquished by:	Date/Time:	Company	Received by: / Date/Time: / Company
Relinquished by:	Date/Time:	Company	Received by: / Date/Time: / Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

Page 28 of 45

7/20/2017

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Pittsburgh, PA 15238
Phone (412) 963-7058 Fax (412) 963-2468

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Alexandra Ambrosino	Lab PM: Dunlap, David A	Carrier Tracking No(s):	COC No: 180-38494-8381.1
Client Contact: Ashwin Ranna,Aron Krasnopoler	Phone:	E-Mail: david.dunlap@testamericainc.com		Page: Page 2 of 6
Company: Geosyntec Consultants, Inc.				Job #:

Address: Penn Center West One, Suite 402 1 Penn Center West Drive	Due Date Requested:
City: Pittsburgh	TAT Requested (days):
State, Zip: PA, 15276	
Phone:	PO #: MN0832B
Email: aranna@geosyntec.com, Akrasnopoler@geosyntec.com	WO #:
Project Name: Former Sperry Remington Site - North IRM	Project #: 18013464
Site: Elmira	SSOW#:

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - VOA-Select List	6010C, 7471B, 9014 - Select ICP Metals, Mercury, Cyanide	8082A, 8270D, PCBs, Select BNA	8260C - VOA-Select List (Trip Blanks only)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	A		
W6,S4,C 71317	71317	925	C	Solid	N			X	X	Trip Blank 3	2	
W6,S5,A 71317	7.13.2017	945	G	Solid	N		X				4	
W6,S5,B 71317	7.13.2017	965	G	Solid	N		X				4	
W6,S5,C 71317	7.13.2017	1000	C	Solid	N			X	X		2	Rush
W7,S5,A 71317	7.13.2017	1015	G	Solid	N		X				4	
W7,S5,B 71317	7.13.2017	1020	G	Solid	N		X				4	
W7,S5C 71317	7.13.2017	1025	C	Solid	N			X	X	Trip Blank 4	2	
W7,S5A 71317	7.13.2017	1045	G	Solid	N		X				4	
W7,S4,B,71317	7.13.2017	1050	G	Solid	N		X				4	
W7,S4,C 71317	7.13.2017	1055	C	Solid	N			X	X		2	
W7,S3,A 71317	7.13.2017	1120	G	Solid	N		X				4	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
				7/14/17 930	TAPA
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

7/20/2017

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Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Alexandra Ambrosino	Lab PM: Dunlap, David A	Carrier Tracking No(s):	COC No: 180-38494-8381.1
Client Contact: Ashwin Ranna,Aron Krasnopoler	Phone:	E-Mail: david.dunlap@testamericainc.com		Page: Page 3 of 6
Company: Geosyntec Consultants, Inc.				Job #:

Address: Penn Center West One, Suite 402 1 Penn Center West Drive	Due Date Requested:
City: Pittsburgh	TAT Requested (days):
State, Zip: PA, 15276	
Phone:	PO #: MN0832B
Email: aranna@geosyntec.com, Akrasnopoler@geosyntec.com	WO #:
Project Name: Former Sperry Remington Site - North IRM	Project #: 18013464
Site: Elmirap	SSOW#:

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - VOA-Select List	6010C, 7471B, 9014 - Select ICP Metals, Mercury, Cyanide	8082A, 8270D, PCBs, Select BNA	8260C - VOA-Select List (Trip Blanks only)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	A		
W7,S3,B 71317	7.13.2017	1135	G	Solid	N		X				4	
W7,S3,C 71317	7.13.2017	1140	C	Solid	N			X	X		2	
W7,S2,A 71317	7.13.2017	1155	G	Solid	N		X				4	Trip Blank 4
W7,S2,B 71317	7.13.2017	1200	G	Solid	N		X				4	
W7,S2,C 71317	7.13.2017	1205	C	Solid	N			X	X		2	Rush
W7,S1,A 71317	7.13.2017	1215	G	Solid	N		X				4	
W7,S1,B 71317	7.13.2017	1220	G	Solid	N		X				4	
W7,S1,C 71317	7.13.2017	1225	C	Solid	N			X	X		2	
W8,S1,A 71317	7.13.2017	1245	G	Solid	N		X				4	
W8,S1,B 71317	7.13.2017	1250	G	Solid	N		X				4	
W8,S1,C 71317	7.13.2017	1255	C	Solid	N			X	X		2	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
				7/14/17 930	TAP
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

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Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Alexandra Ambrosino	Lab PM: Dunlap, David A	Carrier Tracking No(s):	COC No: 180-38494-8381.1
Client Contact: Ashwin Ranna,Aron Krasnopoler	Phone:	E-Mail: david.dunlap@testamericainc.com		Page: Page 1 of 6
Company: Geosyntec Consultants, Inc.				Job #:

Address: Penn Center West One, Suite 402 1 Penn Center West Drive	Due Date Requested:
City: Pittsburgh	TAT Requested (days):
State, Zip: PA, 15276	
Phone:	PO #: MN0832B
Email: aranna@geosyntec.com, Akrasnopoler@geosyntec.com	WO #:
Project Name: Former Sperry Remington Site - North IRM	Project #: 18013464
Site: Elmira	SSOW#:

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - VOA-Select List	6010C, 7471B, 9014 - Select ICP Metals, Mercury, Cyanide	8082A, 8270D, PCBs, Select BNA	8260C - VOA-Select List (Trip Blanks only)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	A		
W8,S2,A 71317	7.13.2017	1315	G	Solid	N		X				4	
W8,S2,B 71317	7.13.2017	1320	G	Solid	N		X				4	
W8,S2 C 71317	7.13.2017	1325	C	Solid	N			X	X		2	
W8,S3,A 71317	7.13.2017	1345	G	Solid	N		X				4	
W8,S3,B 71317	7.13.2017	1350	G	Solid	N	Y	X				12	Rush
W8,S3,C 71317	7.13.2017	1355	C	Solid	N			X	X		2	
W4,S1,A 71317	7.13.2017	1415	G	Solid	N		X				4	
W4,S1,B 71317	7.13.2017	1420	G	Solid	N		X				4	
W4,S1,C 71317	7.13.2017		C	Solid	N			X	X		2	
W4,S2,A 71317	7.13.2017	1445	G	Solid	N		X				4	
W4,S2,B 71317	7.13.2017	1450	G	Solid	N		X				4	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

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Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
				7/14/17 930	TAP
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

7/20/2017

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Phone (412) 963-7058 Fax (412) 963-2468

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Alexandra Ambrosino	Lab PM: Dunlap, David A	Carrier Tracking No(s):	COC No: 180-38494-8381.1
Client Contact: Ashwin Ranna,Aron Krasnopoler	Phone:	E-Mail: david.dunlap@testamericainc.com		Page: Page 6 of 6
Company: Geosyntec Consultants, Inc.				Job #:

Address: Penn Center West One, Suite 402 1 Penn Center West Drive	Due Date Requested:	Analysis Requested	Preservation Codes:
City: Pittsburgh	TAT Requested (days): 1 Day		A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - Di Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify) Other:
State, Zip: PA, 15276			
Phone:	PO #: MN0832B		
Email: aranna@geosyntec.com, Akrasnopoler@geosyntec.com	WO #:		
Project Name: Former Sperry Remington Site - North IRM	Project #: 18013464		
Site: Elmira	SSOW#:		

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - VOA-Select List	6010C, 7471B, 9014 - Select ICP Metals, Mercury, Cyanide	8082A, 8270D, PCBs, Select BNA	8260C - VOA-Select List (Trip Blanks only)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	A		
~~W4,S3,C 71317~~				Solid								
W4,S4,A 71317	7.13.2017	1515	G	Solid	N	Y	X				12	Perform MS MSD67
W4,S4,B 71317	7.13.2017	1520	G	Solid	N	N	X				4	
W4,S5,A 71317	7.13.2017	1545	G	Solid	N	N	X	*			4	
W4,S5,B 71317	7.13.2017	1550	G	Solid	N	N	X				4	
W4,S2,A 71317	7.13.2017	1600	G	Solid	N	N	X				4	
W4,S3,B 71317	7.13.2017	1605	G	Solid	N	N	X				4	
DUP-11	7.13.2017	—	G	Solid	N	N	X				4	
DUP-12	7.13.2017	—	G	Solid	N	N	X				4	
DUP-13	7.13.2017	—	G	Solid	N	N	X				4	
DUP-9	7.13.2017	—	G	Solid	N	N	X				4	

Rush

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
				7/14/17 930	TAP
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

TestAmerica Pittsburgh
301 Alpha Drive RIDC Park
Pittsburgh, PA 15238
Phone (412) 963-7058 Fax (412) 963-2468

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Alexandra Ambrosino	Lab PM: Dunlap, David A	Carrier Tracking No(s):	COC No: 180-38494-8381.1
Client Contact: Ashwin Ranna,Aron Krasnopoler	Phone:	E-Mail: david.dunlap@testamericainc.com		Page: Page 6 of 6
Company: Geosyntec Consultants, Inc.				Job #:

Address: Penn Center West One, Suite 402 1 Penn Center West Drive
City: Pittsburgh
State, Zip: PA, 15276
Phone:
Email: aranna@geosyntec.com, Akrasnopoler@geosyntec.com
Project Name: Former Sperry Remington Site - North IRM
Site: Elmira

Due Date Requested:
TAT Requested (days):
PO #: MN0832B
WO #:
Project #: 18013464
SSOW#:

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - VOA-Select List	6010C, 7471B, 9014 - Select ICP Metals, Mercury, Cyanide	8082A, 8270D, PCBs, Select BNA	8260C - VOA-Select List (Trip Blanks only)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	A		
DUP-10	7.13.2017	—	C	Solid	N	N		X	X		4	Rush
Trip Blank 1	—	—	—	~~Solid~~ W	N	N				X	2	
Trip Blank 2	←	←	←	~~Solid~~ W	N	N				X	2	
Trip Blank 3	—	—	—	~~Solid~~ W	N	N				X	2	
				Solid								
				Solid								
				Solid								
				Solid								
				Solid								
				Solid								
				Solid								
				Solid								

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Date/Time:	Company	Received by:	Date/Time:	Company
	Date/Time:	Company	Received by:	Date/Time: 7/14/17 930	Company TAP
	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks:

TestAmerica Pittsburgh
301 Alpha Drive RIDC Park
Pittsburgh, PA 15238
Phone (412) 963-7058 Fax (412) 963-2468

Chain of Custody Record

180-66219 Chain of Custody

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Alexandra Ambrosino	Lab PM: Dunlap, David A	COC No: 180-38494-8381.1
Client Contact: Ashwin Ranna,Aron Krasnopoler	Phone:	E-Mail: david.dunlap@testamericainc.com	Page: Page 1 of 6
Company: Geosyntec Consultants, Inc.			Job #:
Address: Penn Center West One, Suite 402 1 Penn Center West Drive	Due Date Requested:		
City: Pittsburgh	TAT Requested (days): 1 Day		
State, Zip: PA, 15276			
Phone:	PO #: MN0832B		
Email: aranna@geosyntec.com, Akrasnopoler@geosyntec.com	WO #:		
Project Name: Former Sperry Remington Site - North IRM	Project #: 18013464		
Site: Elmira	SSOW#:		

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - VOA-Select List	6010C, 7471B, 9014 - Select ICP Metals, Mercury, Cyanide	8082A, 8270D, PCBs, Select BNA	8260C - VOA-Select List (Trip Blanks only)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	A		
W6,S1,A 71317	7.13.2017	800	G	Solid	N	Y	X				12	Perform MS MSD 4
W6,S1,B 71317	7.13.2017	805	G	Solid	N	N	X				4	
W6,S1,C 71317	7.13.2017	810	C	Solid	N	Y		X	X		6	Perform MS/MSD 5
W6,S2,A 71317	7.13.2017	820	G	Solid	N	N	X				4	
W6,S2,B 71317	7.13.2017	825	G	Solid	N	N	X				4	
W6,S2,C 71317	7.13.2017	830	C	Solid	N	N		X	X		2	
W6,S3,A 71317	7.13.2017	845	G	Solid	N	N	X				4	
W6,S3,B 71317	7.13.2017	850	G	Solid	N	N	X				4	
W6,S3,C 71317	7.13.2017	855	C	Solid	N	N		X	X		2	
W6,S4,A 71317	7.13.2017	915	G	Solid	N	N	X				4	
W6,S4,B 71317	7.13.2017	920	G	Solid	N	N	X				4	

Trip Blank 3

Rush

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
				7/14/17 930	TAP
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

7/20/2017

TestAmerica Pittsburgh
301 Alpha Drive RIDC Park
Pittsburgh, PA 15238
Phone (412) 963-7058 Fax (412) 963-2468

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Alexandra Ambrosino	Lab PM: Dunlap, David A	Carrier Tracking No(s):	COC No: 180-38494-8381.1
Client Contact: Ashwin Ranna,Aron Krasnopoler	Phone:	E-Mail: david.dunlap@testamericainc.com		Page: Page 2 of 6
Company: Geosyntec Consultants, Inc.				Job #:

Address: Penn Center West One, Suite 402 1 Penn Center West Drive	Due Date Requested:	Analysis Requested	Preservation Codes:
City: Pittsburgh	TAT Requested (days):		A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
State, Zip: PA, 15276			
Phone:	PO #: MN0832B		Other:
Email: aranna@geosyntec.com, Akrasnopoler@geosyntec.com	WO #:		
Project Name: Former Sperry Remington Site - North IRM	Project #: 18013464		
Site: Elmira	SSOW#:		

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - VOA-Select List	6010C, 7471B, 9014 - Select ICP Metals, Mercury, Cyanide	8082A, 8270D, PCBs, Select BNA	8260C - VOA-Select List (Trip Blanks only)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	A		
W6S4,C 71317	71317	925	C	Solid	N			X	X	Trip Blank 3	2	
W6S,5A 71317	7.13.2017	945	G	Solid	N		X				4	
W6S5B 71317	7.13.2017	955	G	Solid	N		X				4	
W6S5C 71317	7.13.2017	1000	C	Solid	N			X	X		2	Rush
W7S5A 71317	7.13.2017	1015	G	Solid	N		X				4	
W7S5,B 71317	7.13.2017	1020	G	Solid	N		X				4	
W7,S5C 71317	7.13.2017	1025	C	Solid	N			X	X	Trip Blank 4	2	
W7,S4A 71317	7.13.2017	1045	G	Solid	N		X				4	
W7,S4,B,71317	7.13.2017	1050	G	Solid	N		X				4	
W7,S4C 71317	7.13.2017	1055	C	Solid	N			X	X		2	
W7,S3,A 71317	7.13.2017	1120	G	Solid	N		X				4	✓

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
				7/14/17 930	TAA
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

7/20/2017

TestAmerica Pittsburgh
301 Alpha Drive RIDC Park
Pittsburgh, PA 15238
Phone (412) 963-7058 Fax (412) 963-2468

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Alexandra Ambrosino	Lab PM: Dunlap, David A	Carrier Tracking No(s):	COC No: 180-38494-8381.1
Client Contact: Ashwin Ranna,Aron Krasnopoler	Phone:	E-Mail: david.dunlap@testamericainc.com		Page: Page 3 of 6
Company: Geosyntec Consultants, Inc.				Job #:

Address: Penn Center West One, Suite 402 1 Penn Center West Drive	Due Date Requested:
City: Pittsburgh	TAT Requested (days):
State, Zip: PA, 15276	
Phone:	PO #: MN0832B
Email: aranna@geosyntec.com, Akrasnopoler@geosyntec.com	WO #:
Project Name: Former Sperry Remington Site - North IRM	Project #: 18013464
Site: Elmirap	SSOW#:

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - VOA-Select List	6010C, 7471B, 9014 - Select ICP Metals, Mercury, Cyanide	8082A, 8270D, PCBs, Select BNA	8260C - VOA-Select List (Trip Blanks only)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	A		
W7,S3,B 71317	7.13.2017	1135	G	Solid	N		X				4	
W7,S3,C 71317	7.13.2017	1140	C	Solid	N			X	X		2	
W7,S2,A 71317	7.13.2017	1155	G	Solid	N		X				4	Trip Blank 4
W7,S2,B 71317	7.13.2017	1200	G	Solid	N		X				4	
W7,S2,C 71317	7.13.2017	1205	C	Solid	N			X	X		2	Rush
W7,S1,A 71317	7.13.2017	1215	G	Solid	N		X				4	
W7,S1,B 71317	7.13.2017	1220	G	Solid	N		X				4	
W7,S1,C 71317	7.13.2017	1225	C	Solid	N			X	X		2	
W8,S1,A 71317	7.13.2017	1245	G	Solid	N		X				4	
W8,S1 B 71317	7.13.2017	1250	G	Solid	N		X				4	
W8,S1,C 71317	7.13.2017	1255	C	Solid	N			X	X		2	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
				7/14/17 930	TAP
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

7/20/2017

TestAmerica Pittsburgh
301 Alpha Drive RIDC Park
Pittsburgh, PA 15238
Phone (412) 963-7058 Fax (412) 963-2468

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Alexandra Ambrosino	Lab PM: Dunlap, David A	Carrier Tracking No(s):	COC No: 180-38494-8381.1
Client Contact: Ashwin Ranna,Aron Krasnopoler	Phone:	E-Mail: david.dunlap@testamericainc.com		Page: Page 1 of 6
Company: Geosyntec Consultants, Inc.				Job #:

Address: Penn Center West One, Suite 402 1 Penn Center West Drive	Due Date Requested:
City: Pittsburgh	TAT Requested (days):
State, Zip: PA, 15276	
Phone:	PO #: MN0832B
Email: aranna@geosyntec.com, Akrasnopoler@geosyntec.com	WO #:
Project Name: Former Sperry Remington Site - North IRM	Project #: 18013464
Site: Elmira	SSOW#:

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - VOA-Select List	6010C, 7471B, 9014 - Select ICP Metals, Mercury, Cyanide	8082A, 8270D, PCBs, Select BNA	8260C - VOA-Select List (Trip Blanks only)	Total Number of containers	Special Instructions/Note:
Preservation Code:							N	N	N	A		
W8,S2,A 71317	7.13.2017	1315	G	Solid	N		X				4	
W8,S2,B 71317	7.13.2017	1320	G	Solid	N		X				4	
W8,S2 C 71317	7.13.2017	1325	C	Solid	N			X	X		2	
W8,S3,A 71317	7.13.2017	1345	G	Solid	N		X				4	
W8,S3,B 71317	7.13.2017	1350	G	Solid	N	Y	X				12	Rush
W8,S3,C 71312	7.13.2017	1355	C	Solid	N			X	X		2	
W4,S1,A 71317	7.13.2017	1415	G	Solid	N		X				4	
W4,S1,B 71317	7.13.2017	1420	G	Solid	N		X				4	
W4,S1,C 71317	7.13.2017		C	Solid	N			X	X		2	
W4,S2,A 71317	7.13.2017	1445	G	Solid	N		X				4	
W4,S2,B 71317	7.13.2017	1450	G	Solid	N		X				4	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 7/14/17 930	Company TMP
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

7/20/2017

TestAmerica Pittsburgh
301 Alpha Drive RIDC Park
Pittsburgh, PA 15238
Phone (412) 963-7058 Fax (412) 963-2468

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Alexandra Ambrosino	Lab PM: Dunlap, David A	Carrier Tracking No(s):	COC No: 180-38494-8381.1
Client Contact: Ashwin Ranna,Aron Krasnopoler	Phone:	E-Mail: david.dunlap@testamericainc.com		Page: Page 5 of 6
Company: Geosyntec Consultants, Inc.				Job #:

Address: Penn Center West One, Suite 402 1 Penn Center West Drive	Due Date Requested:	Analysis Requested
City: Pittsburgh	TAT Requested (days): 1 Day	
State, Zip: PA, 15276		
Phone:	PO #: MN0832B	
Email: aranna@geosyntec.com, Akrasnopoler@geosyntec.com	WO #:	
Project Name: Former Sperry Remington Site - North IRM	Project #: 18013464	
Site: Elmira	SSOW#:	

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - VOA-Select List	6010C, 7471B, 9014 - Select ICP Metals, Mercury, Cyanide	8082A, 8270D, PCBs, Select BNA	8260C - VOA-Select List (Trip Blanks only)	Total Number of containers	Special Instructions/Note:
			Preservation Code:		N	N	N	N	N	A		
~~W4,53,C 71317~~				Solid								
W4,54,A 71317	7.13.2017	1515	G	Solid	N	Y	X				12	Perform MS MSD67
W4,54,B 71317	7.13.2017	1520	G	Solid	N	N	X				4	
W4,55,A 71317	7.13.2017	1545	G	Solid	N	N	X	*			4	
W4,55,B 71317	7.13.2017	1550	G	Solid	N	N	X				4	
W4,52,A 71317	7.13.2017	1600	G	Solid	N	N	X				4	
W4,53,B 71317	7.13.2017	1605	G	Solid	N	N	X				4	
DUP-11	7.13.2017	—	G	Solid	N	N	X				4	
DUP-12	7.13.2017	—	G	Solid	N	N	X				4	
DUP-13	7.13.2017	—	G	Solid	N	N	X				4	
DUP-9	7.13.2017	—	G	Solid	N	N	X				4	

Rush

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
				7/14/17 930	TAP
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

7/20/2017

TestAmerica Pittsburgh
301 Alpha Drive RIDC Park
Pittsburgh, PA 15238
Phone (412) 963-7058 Fax (412) 963-2468

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Alexandra Ambrosino	Lab PM: Dunlap, David A	Carrier Tracking No(s):	COC No: 180-38494-8381.1
Client Contact: Ashwin Ranna,Aron Krasnopoler	Phone:	E-Mail: david.dunlap@testamericainc.com		Page: Page 6 of 6
Company: Geosyntec Consultants, Inc.				Job #:

Address: Penn Center West One, Suite 402 1 Penn Center West Drive	Due Date Requested:
City: Pittsburgh	TAT Requested (days):
State, Zip: PA, 15276	
Phone:	PO #: MN0832B
Email: aranna@geosyntec.com, Akrasnopoler@geosyntec.com	WO #:
Project Name: Former Sperry Remington Site - North IRM	Project #: 18013464
Site: Elmira	SSOW#:

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - VOA-Select List	6010C, 7471B, 9014 - Select ICP Metals, Mercury, Cyanide	8082A, 8270D, PCBs, Select BNA	8260C - VOA-Select List (Trip Blanks only)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	A		
DUP-10	7.13.2017	—	C	Solid	N	N		X	X		4	Rush
Trip Blank 1	—	—	—	~~W~~ Solid	N	N				X	2	
Trip Blank 2	←	—	—	~~W~~ Solid	N	N				X	2	
Trip Blank 3	—	—	—	~~W~~ Solid	N	N				X	2	
				Solid								
				Solid								
				Solid								
				Solid								
				Solid								
				Solid								
				Solid								

Possible Hazard Identification
☐ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* ☐ *Poison B* ☐ *Unknown* ☐ *Radiological*

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For _____ Months*

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Date/Time:	Company	Received by:	Date/Time:	Company
	Date/Time:	Company	Received by:	Date/Time: 7/14/17 930	Company TAP
	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks:

TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
phone 412.963.7058 fax 412.963.2468

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☑ Other: Ashwin Ranna

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Aron Krasnopoler	Site Contact: ~~Jay Thompson~~	Date: 7.14.2017	COC No: 1 of 1
Geosyntec Consultants	Tel/Fax: 401-381-4333	Lab Contact: Dave Dunlap	Carrier: FedEx	1 of 1 COCs
10211 Wincopin Circle, 4th Floor	Analysis Turnaround Time			Sampler: ARA/AT
Columbia, MD 21044	☐ CALENDAR DAYS ☑ WORKING DAYS			For Lab Use Only:
410-381-4333 Phone	TAT if different from Below _____			Walk-in Client:
410-381-4499 FAX	☐ 2 weeks			Sampling:
Project Name: Former Sperry Remington Site - North	☐ 1 week			
Site: Elmira	☐ 2 days			/ SDG No.:
P O # MN0832B	☑ 1 day			

180-68219-02 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	PCBs - 8082A	~~VOCs - 8260B~~ 8260C (7473B)	~~TCLP Lead~~ 9014	Sample Specific Notes:
W6,S3,C 71317	7.13.2017	855	C	S	1	N	~~N~~	X	X	X	Bottles off from previous COC
MSD-5 [W6,S1,C(713,17)]	7.13.2017	810	C	S	1	N	N	X	X	X	
W6,S2,C 71317	7.13.2017	830	C	S	1	N	N	X	X	X	
W6,S1,G,71317	7.13.2017	810	C	S	1	N	N	X	X	X	
W6,S1,C (MS-5) 7B17	7.13.2017	810	C	S	1	N	N	X	X	X	

Rush

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd: _____ Corr'd: _____		Therm ID No.: _____
Relinquished by: Jay Thompson	Company: Geosyntec	Date/Time: 7.14.2017	Received by:	Company: TAP	Date/Time: 7/14/17 915
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Form No. CA-C-WI-002, Rev. 4.3, dated 12/05/2013



ORIGIN ID:ELMA (650) 319-5880
JAY THOMPSON
5008 16TH AVE S
MINNEAPOLIS, MN 55417
UNITED STATES US

SHIP DATE: 13JUL17
ACTWGT: 55.10 LB
CAD: 006998274/SSFE1802
DIMS: 24x14x13 IN
BILL THIRD PARTY

TO DAVE DUNLAP
TEST AMERICA
301 ALPHA DR

PITTSBURGH PA 15238
(412) 963-7058
INV:
PO:
REF:
DEPT:

FedEx Express

2 of 8
MPS# 0263 7871 8523 8984
Mstr# 7871 8523 8973
0201
X1 AGCA
15238
PA-US PIT

FRI - 14 JUL 8:30A
FIRST OVERNIGHT

Uncorrected temp 2.6 °C
Thermometer ID 12
CF 0 Initials mll

PT-WI-SR-001 effective 7/26/13

Part # 156297V-435 RIT2 EXP 06/17
13ES/2303/17345



ORIGIN ID:ELMA (650) 319-5880
JAY THOMPSON
5008 16TH AVE S
MINNEAPOLIS, MN 55417
UNITED STATES US

SHIP DATE: 13JUL17
ACTWGT: 41.70 LB
CAD: 006998274/SSFE1802
DIMS: 24x14x13 IN
BILL THIRD PARTY

TO DAVE DUNLAP
TEST AMERICA
301 ALPHA DR

PITTSBURGH PA 15238
(412) 963-7058
INV:
PO:
REF:
DEPT:

FedEx Express

1 of 8
TRK# 0201 7871 8523 8973
MASTER
X1 AGCA
15238

FRI - 14 JUL 8:30A
FIRST OVERNIGHT

Uncorrected temp 3.7 °C
Thermometer ID 12
CF 0 Initials mll

PT-WI-SR-001 effective 7/26/13

180-68219 Waybill

Part # 156297V-435 RIT2 EXP 06/17
13ES/2303/17345

JAY THOMPSON
5008 16TH AVE S
MINNEAPOLIS, MN 55417
UNITED STATES US

SHIP DATE: 13JUL17
ACTWGT: 44.60 LB
CAD: 006998274/SSFE1802
DIMS: 24x14x13 IN
BILL THIRD PARTY

Part # 156297Y-435 RIT2 EXP 06/17
13E5/2303/11945

TO DAVE DUNLAP
TEST AMERICA
301 ALPHA DR

PITTSBURGH PA 15238
(412) 963-7058 REF:
INV: PO: DEPT:

FedEx Express

4 of 8
MPS# 0263 7871 8523 9009
Mstr# 7871 8523 8973

FRI - 14 JUL 8:30A
FIRST OVERNIGHT

0201

X1 AGCA

15238
PA-US PIT

Uncorrected temp 3.1 °C
Thermometer ID 12
CF 0 Initials CWC

PT-WI-SR-001 effective 7/26/13

FedEx First Overnight®

151969 REV 7/08 RRD

ORIGIN ID:ELMA (612) 318-5880
JAY THOMPSON
5008 16TH AVE
MINNEAPOLIS, MN 55417
UNITED STATES US

SHIP DATE: 13JUL17
ACTWGT: 43.00 LB
CAD: 006998274/SSFE1802
DIMS: 24x14x13 IN
BILL THIRD PARTY

Part # 156297Y-435 RIT2 EXP 06/17
13E5/2303/11945

TO DAVE DUNLAP
TESTAMERICA
301ALPHA DR

PITTSBURGH PA 15238
(412) 963-7058 REF:
INV: DEPT:

FedEx Express

3 of 8
MPS# 0263 7871 8523 8995
Mstr# 7871 8523 8973

FRI - 14 JUL 8:30A
FIRST OVERNIGHT

0201

X1 AGCA

15238
PA-US PIT

Uncorrected temp 3.6 °C
Thermometer ID 12
CF 0 Initials TB

PT-WI-SR-001 effective 7/26/13

...t it using This Tag



...SON
...AVE S
...EAPOLIS, MN 55417
...ITED STATES US

SHIP DATE: 13JUL17
ACTWGT: 57.60 LB
CAD: 006998274/SSFE1802
DIMS: 24x14x13 IN

BILL THIRD PARTY

Part # 156297V-435 RIT2 EXP 06/17
13ES/2303/1795

TO DAVE DUNLAP
TEST AMERICA
301 ALPHA DR

PITTSBURGH PA 15238
(412) 963-7058
INV:
PO:
REF:
DEPT:

FedEx Express

6 of 8
MPS# 0263 7871 8523 9020
Mstr# 7871 8523 8973

FRI - 14 JUL 8:30A
FIRST OVERNIGHT

0201

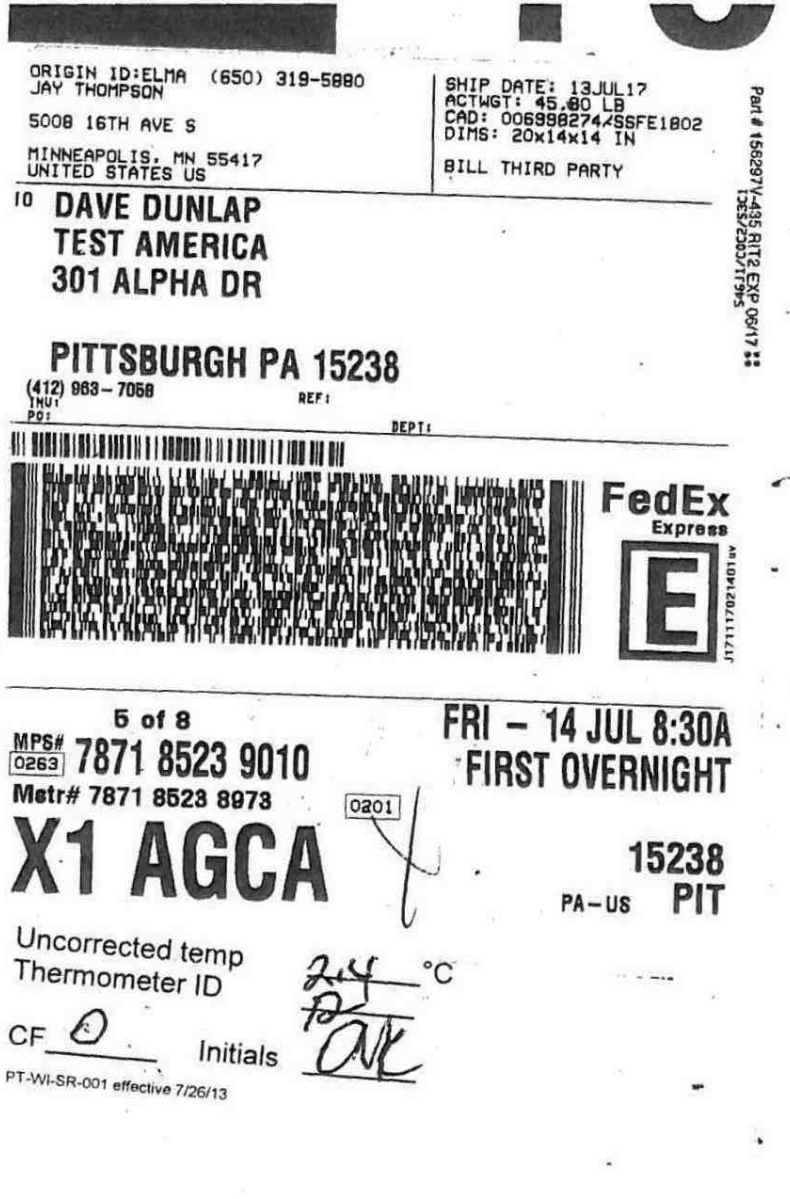
X1 AGCA

15238
PA-US PIT

Uncorrected temp 4.8 °C
Thermometer ID T2
CF 0 Initials TS

PT-WI-SR-001 effective 7/26/13

Fe [redacted] Fer
Cou... Astra or Barcoded Label Here



[redacted]

ORIGIN ID:ELMA (650) 319-5880
JAY THOMPSON
5008 16TH AVE S
MINNEAPOLIS, MN 55417
UNITED STATES US

SHIP DATE: 13JUL17
ACTWGT: 45.80 LB
CAD: 006998274/SSFE1802
DIMS: 20x14x14 IN

BILL THIRD PARTY

Part # 156297V-435 RIT2 EXP 06/17
13ES/2303/1795

TO DAVE DUNLAP
TEST AMERICA
301 ALPHA DR

PITTSBURGH PA 15238
(412) 963-7058
INV:
PO:
REF:
DEPT:

FedEx Express

5 of 8
MPS# 0263 7871 8523 9010
Mstr# 7871 8523 8973

FRI - 14 JUL 8:30A
FIRST OVERNIGHT

0201

X1 AGCA

15238
PA-US PIT

Uncorrected temp 2.4 °C
Thermometer ID T2
CF 0 Initials ANK

PT-WI-SR-001 effective 7/26/13

JAY THOMPSON
5008 16TH AVE S
MINNEAPOLIS, MN 55417
UNITED STATES US

SHIP DATE: 13JUL17
ACTWGT: 57.60 LB
CAD: 006998274/SSFE1802
DIMS: 24x14x14 IN
BILL THIRD PARTY

Part # 156297V-435 RIT2 EXP 06/17
13E52/2003/1F945

TO DAVE DUNLAP
TEST AMERICA
301 ALPHA DR

PITTSBURGH PA 15238
(412) 963-7058 REF:
INV:
PO: DEPT:

FedEx Express

7 of 8
MPS# 0263 7871 8523 9031
Mstr# 7871 8523 8978

FRI - 14 JUL 8:30A
FIRST OVERNIGHT

0201

X1 AGCA

15238
PA-US PIT

Uncorrected temp 3.6 °C
Thermometer ID +2
CF 0 Initials MK

PT-WI-SR-001 effective 7/26/13

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 180-68219-2

Login Number: 68219
List Number: 1
Creator: Kovitch, Christina M

List Source: TestAmerica Pittsburgh

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	False	not relinquished by client
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Geosyntec consultants

180A Market Place Blvd.
Knoxville, TN 37922
PH 865.330.0037
www.geosyntec.com

Memorandum

Date:	20 July 2017
To:	Aron Krasnopoler
From:	Mary Tyler
CC:	J. Caprio
Subject:	**Stage 2A Data Validation - Level II Data Deliverable, TestAmerica Job ID 180-68140-1**

SITE: Former Sperry Remington Site-North IRM

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of twenty solid samples, including one sample for matrix spike/matrix spike duplicate (MS/MSD) analyses, three field duplicate samples and two trip blanks, collected July 12, 2017, as part of the Former Sperry Remington Site-North IRM project. The analyses were performed at TestAmerica Laboratories, Inc., Pittsburgh, Pennsylvania. The samples were analyzed for the following tests:

- Volatile Organic Compounds (VOCs) by EPA Methods 5035/8260C
- Semivolatile Organic Compounds (SVOCs) by EPA Methods 3541/8270D
- Polychlorinated Biphenyls (PCBs) by EPA Methods 3541/8082A
- Metals by EPA Methods 3050B/6010C
- Mercury by EPA Method 7471B
- Total Cyanide by EPA Method 9014
- Total Solids by Standard Method 2540G

EXECUTIVE SUMMARY

The samples were handled, prepared, and measured in the same manner under similar prescribed conditions.

Overall, based on this Stage 2A data validation covering the quality control (QC) parameters listed below, the data as qualified are usable for meeting project objectives. The qualified data should be used within the limitations of the qualifications.

The data were validated based on the Quality Assurance Project Plan (QAPP) for Former Sperry Remington Facility Industrial Outfall Site, Elmira, New York, NYSDEC Site I.D. # 808043, NY09-2480-04, July 7, 2010, Revised November 11, 2010, USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review, January 2017 (EPA 540-R-2017-002), USEPA Contract Laboratory Program National Functional Guidelines for Superfund Inorganic Methods Data Review, January 2017 (EPA 540-R-2017-001), the pertinent methods referenced by the laboratory report and professional and technical judgment.

The following samples were analyzed and validated at Stage 2A level in the data set:

Laboratory ID	Client ID
180-68140-3	W4, S1, C 71217
180-68140-6	W4, S2, C 71217
180-68140-9	W4, S3, C 71217
180-68140-12	W4, S4, C 71217
180-68140-15	W4, S5, C 71217
180-68140-16	W5, S5, A 71217
180-68140-17	W5, S5, B 71217
180-68140-18	W5, S5, C 71217
180-68140-19	W5, S4, A 71217
180-68140-20	W5, S4, B 71217
180-68140-21	W5, S4, C 71217
180-68140-22	W5, S3, A 71217
180-68140-23	W5, S3, B 71217

Laboratory ID	Client ID
180-68140-24	W5, S3, C 71217
180-68140-25	W5, S2, A 71217
180-68140-26	W5, S2, B 71217
180-68140-27	W5, S2, C 71217
180-68140-28	W5, S1, A 71217
180-68140-29	W5, S1, B 71217
180-68140-30	W5, S1, C 71217
180-68140-31	DUP-6
180-68140-32	DUP-7
180-68140-33	DUP-8
180-68140-34	TRIP BLANK 1
180-68140-35	TRIP BLANK 2

The samples were received at the laboratory at 0.8-2.6^{o}C, within the criteria of 0-6°C. No sample preservation issues were noted by the laboratory.

The following issues were noted with the chain of custody (COC):

- Incorrect error corrections were observed on the COC, instead of the proper procedure of a single strike through, correction, and initials and date of person making the corrections.

- No collection times were listed on the COC for the field duplicate samples; the laboratory assigned collection times of 00:00.

- Ten solid samples for VOC analysis were listed on the COC, but not reported in this laboratory report. Per the report narrative, the cooler containing these samples was delaying in shipping. The VOC samples for the ten samples were re-collected and reported in laboratory report 180-68219-2.

- There were no times of collection documented on the COC for the trip blanks; in addition, the collection dates were crossed off. The laboratory assigned collection dates and times of 7/12/17, 00:00.

The solids data, used to report the samples on a dry weight basis, were not validated.

1.0 VOLATILE ORGANIC COMPOUNDS

The samples were analyzed for VOCs by EPA methods 5035/8260B.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

⊗ Overall Assessment
✓ Holding Times
✓ Method Blank
✓ Matrix Spike/Matrix Spike Duplicate
✓ Laboratory Control Sample
✓ Surrogates
✓ Trip Blank
✓ Field Duplicate
✓ Sensitivity
✓ Electronic Data Deliverable Review

1.1 Overall Assessment

The VOC data reported in this package are considered usable for meeting project objectives. The analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this data set is 100%.

The narrative indicated that the continuing calibration verification (CCV) percent difference (%D) for carbon tetrachloride was high, outside method specified acceptance criteria in analytical batch 217186. The %D was 22%D, with a high bias; the method limit is 20%D. Since the %D was within the validation guidance, no qualifications were applied to the data.

In addition, the narrative indicated that the internal standard response for 1,4-dichlorobenzene-d4 was low and outside the method specified acceptance criteria in sample W5, S1, A 71217.

Therefore, the nondetect results of the associated compounds in sample W5, S1, A 71217 were UJ qualified as estimated less than the method detection limits (MDLs).

Sample	Compound	Laboratory Result (µg/L)	Laboratory Flag	Validation Result (µg/L)	Validation Qualifier*	Reason Code**
W5, S1, A 71217	1,2,4-Trimethylbenzene	0.0012	U,*	0.0012	UJ	11
W5, S1, A 71217	1,2-Dichlorobenzene	0.0037	U,*	0.0037	UJ	11
W5, S1, A 71217	1,3,5-Trimethylbenzene	0.0016	U,*	0.0016	UJ	11
W5, S1, A 71217	1,3-Dichlorobenzene	0.0015	U,*	0.0015	UJ	11
W5, S1, A 71217	1,4-Dichlorobenzene	0.00093	U,*	0.00093	UJ	11
W5, S1, A 71217	n-Butylbenzene	0.0035	U,*	0.0035	UJ	11
W5, S1, A 71217	N-Propylbenzene	0.0019	U,*	0.0019	UJ	11
W5, S1, A 71217	sec-Butylbenzene	0.0022	U,*	0.0022	UJ	11
W5, S1, A 71217	tert-Butylbenzene	0.0017	U,*	0.0017	UJ	11

µg/L-micrograms per liter
U- not detected at or above the stated MDL
*-laboratory flag indicating the internal standard response or retention time was outside the acceptance limits
* Validation qualifiers are defined in Attachment 1 at the end of this report
**Reason codes are defined in Attachment 2 at the end of this report

1.2 Holding Times

The holding time for the VOC analysis of a preserved solid sample collected as a terracore is 48 hours until laboratory receipt and 14 days from sample collection to analysis. The holding time for the VOC analysis of a preserved water sample is 14 days from sample collection to analysis. The holding times were met for the sample analyses.

1.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Three method blanks were reported (batches 217186, 217209 and 217455). VOCs were not detected in the method blanks above the MDLs.

1.4 Matrix Spike/Matrix Spike Duplicate (MS/MSD)

MS/MSD pairs were not reported.

1.5 Laboratory Control Sample (LCS)

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two LCSs and one LCS/LCS duplicate (LCSD) pair were reported. The recovery and relative percent difference (RPD) results were within the laboratory specified acceptance criteria.

1.6 Surrogates

Acceptable surrogate recoveries were reported.

1.7 Trip Blank

Two trip blanks accompanied the samples, TRIP BLANK 1 and TRIP BLANK 2. VOCs were not detected in the trip blanks above the MDLs, with the following exceptions.

Acetone was detected at an estimated concentration greater than the MDL and less than the RL in both trip blanks. Since acetone was not detected in the associated samples, no qualifications were applied to the data.

1.8 Field Duplicate

Three field duplicates were collected with the sample set. Two field duplicates were analyzed for VOCs, DUP-7 and DUP-8. It was noted that the original sample associated with DUP-7 (collected on 7/12/17) was recollected on 7/13/17. Therefore, assessment of this field duplicate pair could not be performed. Acceptable precision (RPD <40% for results greater than five times the RL and ±2 times the RL for results less than five times the RL) was demonstrated between field duplicate DUP-8 and the original sample W5, S4, B71217. The RPDs between the results were 0%.

1.9 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were not reported.

1.10 Electronic Data Deliverable (EDD) Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

2.0 SEMIVOLATILE ORGANIC COMPOUNDS

The samples were analyzed for SVOCs by EPA methods 3541/8270D.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

✓ Overall Assessment
✓ Holding Times
✓ Method Blank
✓ Matrix Spike/Matrix Spike Duplicate
✓ Laboratory Control Sample
✓ Surrogates
⊗ Field Duplicate
✓ Sensitivity
✓ Electronic Data Deliverable Review

2.1 Overall Assessment

The SVOC data reported in this package are considered usable for meeting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this data set is 100%.

The narrative indicated that the CCV %D for pentachlorophenol was high, outside method specified acceptance criteria in analytical batch 217242, with a high bias; the %D was 51%D and the method limit is 20%D. Since the bias was high and pentachlorophenol was not detected in the associated samples, no qualifications were applied to the data. In addition, the CCV %D for benzo[g,h,i]perylene was high, outside method specified acceptance criteria in analytical batch 217242, with a low bias; the %D was 21%D and the method limit is 20%D. Since the %D for benzo[g,h,i]perylene was within the validation guidance, no qualifications were applied to the benzo[g,h,i]perylene data.

2.2 Holding Times

The holding times for SVOC analysis of solid samples are 14 days from sample collection to extraction and 40 days from extraction to analysis. The holding times were met for the sample analyses.

2.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 217139). SVOCs were not detected in the method blank above the MDLs.

2.4 Matrix Spike/Matrix Spike Duplicate

MS/MSD pairs were not reported.

2.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery results were within the laboratory specified acceptance criteria.

2.6 Surrogates

Acceptable surrogate recoveries were reported.

2.7 Field Duplicate

Three field duplicates were collected with the sample set. One field duplicate was analyzed for SVOCs, DUP-6. Acceptable precision (RPD <40% for results greater than five times the RL and ±2 times the RL for results less than five times the RL) was demonstrated between the field duplicate and the original sample, W4, S2, C 71217, with the following exceptions.

The field duplicate acceptance criteria were not met for the following SVOCs: Acenaphthylene, benzo[a]anthracene, benzo[a]pyrene, benzo[b]fluoranthene, benzo[g,h,i]perylene, chrysene, fluoranthene, indeno[1,2,3-cd]pyrene, phenanthrene and pyrene. Therefore, based on professional and technical judgment, the concentrations of these SVOCs in the field duplicate pair were J qualified as estimated.

The qualifications due to the field duplicate results are summarized below.

Sample	Compound	Laboratory Result (mg/kg)	Laboratory Flag	RPD	Validation Result (mg/kg)	Validation Qualifier	Reason Code
DUP-6	Acenaphthylene	0.23	NA	93	0.23	J	7
W4, S2, C 71217	Acenaphthylene	0.084	NA		0.084	J	7
DUP-6	Benzo[a]anthracene	1.0	NA	113	1.0	J	7
W4, S2, C 71217	Benzo[a]anthracene	0.28	NA		0.28	J	7
DUP-6	Benzo[a]pyrene	0.90	NA	98	0.90	J	7
W4, S2, C 71217	Benzo[a]pyrene	0.31	NA		0.31	J	7
DUP-6	Benzo[b]fluoranthene	1.1	NA	93	1.1	J	7
W4, S2, C 71217	Benzo[b]fluoranthene	0.40	NA		0.40	J	7
DUP-6	Benzo[g,h,i]perylene	0.81	NA	66	0.81	J	7
W4, S2, C 71217	Benzo[g,h,i]perylene	0.41	NA		0.41	J	7
DUP-6	Chrysene	0.91	NA	108	0.91	J	7
W4, S2, C 71217	Chrysene	0.27	NA		0.27	J	7
DUP-6	Fluoranthene	2.0	NA	129	2.0	J	7
W4, S2, C 71217	Fluoranthene	0.43	NA		0.43	J	7
DUP-6	Indeno[1,2,3-cd]pyrene	0.79	NA	82	0.79	J	7
W4, S2, C 71217	Indeno[1,2,3-cd]pyrene	0.33	NA		0.33	J	7
DUP-6	Phenanthrene	0.96	NA	140	0.96	J	7
W4, S2, C 71217	Phenanthrene	0.17	NA		0.17	J	7
DUP-6	Pyrene	1.4	NA	116	1.4	J	7
W4, S2, C 71217	Pyrene	0.37	NA		0.37	J	7

mg/kg-milligrams per kilogram
NA-not applicable

2.8 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were reported due to the dilutions analyzed.

2.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II reports and the EDDs.

3.0 POLYCHLORINATED BIPHENYLS

The samples were analyzed for PCBs by EPA Methods 3541/8082A.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

⊗ Overall Assessment
✓ Holding Times
✓ Method Blank
✓ Matrix Spike/Matrix Spike Duplicate
✓ Laboratory Control Sample
✓ Surrogates
✓ Field Duplicate
✓ Sensitivity
✓ Electronic Data Deliverable Review

3.1 Overall Assessment

The PCB data reported in this package are considered usable for meeting project objectives. The analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this data set is 100%.

The samples contain mixtures of PCBs 1248, 1254 and 1260. There are peaks in 1248 and 1254 that are in both of these PCBs and peaks in 1254 and 1260 that are in both of these PCBs; therefore, there is contribution between PCBs when more than one PCB is detected in a sample. Therefore, based on professional and technical judgment, the concentrations of PCBs 1248, 1254 and 1260 in these samples were J qualified as estimated.

Sample ID	Compound	Laboratory Concentration (mg/kg)	Laboratory Flag	Validation Concentration (mg/kg)	Validation Qualifier	Reason Code
DUP-6	PCB-1248	0.72	NA	0.72	J	13
DUP-6	PCB-1254	0.44	NA	0.44	J	13
DUP-6	PCB-1260	0.13	NA	0.13	J	13
W4, S1, C 71217	PCB-1248	0.55	NA	0.55	J	13
W4, S1, C 71217	PCB-1254	0.39	NA	0.39	J	13
W4, S1, C 71217	PCB-1260	0.12	NA	0.12	J	13
W4, S2, C 71217	PCB-1248	0.60	NA	0.60	J	13
W4, S2, C 71217	PCB-1254	0.43	NA	0.43	J	13
W4, S2, C 71217	PCB-1260	0.12	NA	0.12	J	13
W4, S3, C 71217	PCB-1248	0.71	NA	0.71	J	13
W4, S3, C 71217	PCB-1254	0.50	NA	0.50	J	13
W4, S3, C 71217	PCB-1260	0.15	NA	0.15	J	13
W4, S4, C 71217	PCB-1248	0.72	NA	0.72	J	13
W4, S4, C 71217	PCB-1254	0.51	NA	0.51	J	13
W4, S4, C 71217	PCB-1260	0.15	NA	0.15	J	13
W4, S5, C 71217	PCB-1248	0.61	NA	0.61	J	13
W4, S5, C 71217	PCB-1254	0.41	NA	0.41	J	13
W4, S5, C 71217	PCB-1260	0.12	NA	0.12	J	13
W5, S1, C 71217	PCB-1248	0.56	NA	0.56	J	13
W5, S1, C 71217	PCB-1254	0.36	NA	0.36	J	13
W5, S1, C 71217	PCB-1260	0.11	NA	0.11	J	13
W5, S2, C 71217	PCB-1248	0.48	NA	0.48	J	13
W5, S2, C 71217	PCB-1254	0.30	NA	0.30	J	13
W5, S2, C 71217	PCB-1260	0.089	NA	0.089	J	13
W5, S3, C 71217	PCB-1248	0.71	NA	0.71	J	13
W5, S3, C 71217	PCB-1254	0.47	NA	0.47	J	13
W5, S3, C 71217	PCB-1260	0.14	NA	0.14	J	13
W5, S4, C 71217	PCB-1248	0.91	NA	0.91	J	13
W5, S4, C 71217	PCB-1254	0.64	NA	0.64	J	13
W5, S4, C 71217	PCB-1260	0.19	NA	0.19	J	13
W5, S5, C 71217	PCB-1248	0.68	NA	0.68	J	13
W5, S5, C 71217	PCB-1254	0.46	NA	0.46	J	13
W5, S5, C 71217	PCB-1260	0.14	NA	0.14	J	13

mg/kg-milligrams per kilogram
NA-not applicable

3.2 Holding Times

The holding times for the PCB analysis of solids are 14 days from sample collection to extraction and 40 days from extraction to analysis. The holding times were met for the sample analyses.

3.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 217140). PCBs were not detected in the method blank above the MDLs.

3.4 Matrix Spike/Matrix Spike Duplicate

MS/MSD pairs were not reported.

3.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery results were within the laboratory specified acceptance criteria.

3.6 Surrogates

Acceptable surrogate recoveries were reported.

3.7 Field Duplicate

Three field duplicates were collected with the sample set. One field duplicate was analyzed for PCBs, DUP-6. Acceptable precision (RPD <40% for results greater than five times the RL and ±2 times the RL for results less than five times the RL) was demonstrated between the field duplicate and the original sample, W4, S2, C 71217.

3.8 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were not reported.

3.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No other discrepancies were identified between the level II report and the EDD.

5.0 METALS

The samples were analyzed for metals by EPA methods 3050B/6010C (Mercury evaluated separately in Section 6.0, below).

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Serial Dilution
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

5.1 Overall Assessment

The metals data reported in this package are considered usable for meeting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this data set is 100%.

5.2 Holding Times

The holding time for metals analysis of solid samples is 180 days from sample collection to analysis. The holding times were met for the sample analyses.

5.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 217101). The metals were not detected in the method blank above the MDLs.

5.4 Matrix Spike/Matrix Spike Duplicate

MS/MSD pairs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). A batch MS/MSD pair was reported. Since this is batch QC, the results do not impact the data.

5.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery results were within the laboratory specified acceptance criteria.

5.6 Laboratory Duplicate

A laboratory duplicate was not reported with the sample set.

5.7 Serial Dilution

A serial dilution was not reported.

5.8 Field Duplicate

Three field duplicates were collected with the sample set. One field duplicate was analyzed for PCBs, DUP-6. Acceptable precision (RPD <40% for results greater than five times the RL and ±2 times the RL for results less than five times the RL) was demonstrated between the field duplicate and the original sample, W4, S2, C 71217.

5.9 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were not reported.

5.10 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

6.0 MERCURY

The samples were analyzed for mercury by EPA methods 7471B.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

✓ Overall Assessment
✓ Holding Times
✓ Method Blank
⊗ Matrix Spike/Matrix Spike Duplicate
✓ Laboratory Control Sample
✓ Laboratory Duplicate
✓ Field Duplicate
✓ Sensitivity
✓ Electronic Data Deliverable Review

6.1 Overall Assessment

The mercury data reported in this package are considered usable for meeting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this data set is 100%.

6.2 Holding Times

The holding time for the mercury analysis of solid samples is 28 days from sample collection to analysis. The holding times were met for the sample analyses.

6.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 217422). Mercury was not detected in the method blank above the MDL.

6.4 Matrix Spike/Matrix Spike Duplicate

MS/MSD pairs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). A sample set specific MS/MSD pair was reported, using sample W4, S1, C 71217. The recovery and RPD results were high and outside the laboratory specified acceptance criteria. Therefore, the concentration of mercury in sample W4, S1, C 71217 was J+ qualified as estimated with a high bias.

Sample	Compound	Laboratory Result (mg/kg)	Laboratory Flag	Validation Result (mg/kg)	Validation Qualifier	Reason Code
W4, S1, C 71217	Mercury	0.16	F1,F2	0.16	J+	4

mg/kg-milligrams per kilogram
F1-laboratory flag indicating the MS and/or MSD recovery is outside acceptance limits
F2-laboratory flag indicating the MS/MSD RPD exceeds control limits

6.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery result was within the laboratory specified acceptance criteria.

6.6 Laboratory Duplicate

A laboratory duplicate was not reported.

6.7 Field Duplicate

Three field duplicates were collected with the sample set. One field duplicate was analyzed for mercury, DUP-6. Acceptable precision (RPD <40% for results greater than five times the RL and ±2 times the RL for results less than five times the RL) was demonstrated between the field duplicates and the original sample W4, S2, C 71217.

6.8 Sensitivity

The samples were reported to the MDL. Elevated non-detect results were not reported.

6.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

7.0 TOTAL CYANIDE

The samples were analyzed for total cyanide by EPA Methods 9014.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues

were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Equipment Blank
- ✓ Sensitivity
- ✓ Electronic Data Deliverables Review

7.1 Overall Assessment

The cyanide data reported in this package are considered usable for meeting project objectives. The analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this data set is 100%.

7.2 Holding Times

The holding time for the cyanide analysis of solid samples is 14 days from sample collection to analysis. The holding times were met for the sample analyses.

7.3 Method Blanks

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 217382). Cyanide was not detected in the method blank above the MDL.

7.4 Matrix Spike/Matrix Spike Duplicate

MS/MSD pairs were not reported

7.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Three LCSs were reported. The recovery results were within the laboratory specified acceptance criteria.

7.6 Laboratory Duplicate

A laboratory duplicate was not reported.

7.7 Field Duplicate

Three field duplicates were collected with the sample set. One field duplicate was analyzed for cyanide, DUP-6. Acceptable precision (RPD <40% for results greater than five times the RL and ±2 times the RL for results less than five times the RL) was demonstrated between the field duplicate and the original sample, W4, S2, C 71217.

7.8 Sensitivity

The samples were reported to the MDL. Elevated non-detect results were not reported.

7.9 Electronic Data Deliverables Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

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ATTACHMENT 1
DATA VALIDATION QUALIFIER DEFINITIONS AND INTERPRETATION KEY
Assigned by Geosyntec's Data Validation Team

DATA QUALIFIER DEFINITIONS

U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

J+ The analyte was positively identified; however, the associated numerical value is likely to be higher that the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.

J- The analyte was positively identified; however, the associated numerical value is likely to be lower that the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ATTACHMENT 2
DATA VALIDATION REASON CODES
Assigned by Geosyntec's Data Validation Team

Valid Value	Description
1	Preservation requirement not met
2	Analysis holding time exceeded
3	Blank contamination (i.e., method, trip, equipment, etc.)
4	Matrix spike/matrix spike duplicate recovery or RPD outside limits
5	LCS recovery outside limits
6	Surrogate recovery outside limits
7	Field Duplicate RPD exceeded
8	Serial dilution percent difference exceeded
9	Calibration criteria not met
10	Linear range exceeded
11	Internal standard criteria not met
12	Lab duplicates RPD exceeded
13	Other

RPD-relative percent difference

Geosyntec consultants

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Knoxville, TN 37922
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Memorandum

Date:	20 July 2017
To:	Aron Krasnopoler
From:	Mary Tyler
CC:	J. Caprio
Subject:	**Stage 2A Data Validation - Level II Data Deliverable, TestAmerica Job ID 180-68219-2**

SITE: Former Sperry Remington Site-North IRM

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of ten solid samples, including one sample for matrix spike/matrix spike duplicate (MS/MSD) analyses, collected July 13, 2017, as part of the Former Sperry Remington Site-North IRM project. The analyses were performed at TestAmerica Laboratories, Inc., Pittsburgh, Pennsylvania. The samples were analyzed for the following tests:

- Volatile Organic Compounds (VOCs) by EPA Methods 5035/8260C
- Total Solids by Standard Method 2540G

EXECUTIVE SUMMARY

Overall, based on this Stage 2A data validation covering the quality control (QC) parameters listed below, the data are usable for meeting project objectives.

The data were validated based on the Quality Assurance Project Plan (QAPP) for Former Sperry Remington Facility Industrial Outfall Site, Elmira, New York, NYSDEC Site I.D. # 808043, NY09-2480-04, July 7, 2010, Revised November 11, 2010, USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review, January 2017 (EPA 540-R-2017-002), the pertinent method referenced by the laboratory report and professional and technical judgment.

The following samples were analyzed and validated at Stage 2A level in the data set:

Laboratory ID	Client ID
180-68219-40	W4, S1, A 71317

Laboratory ID	Client ID
180-68219-41	W4, S1, B 71317

Laboratory ID	Client ID
180-68219-42	W4, S2, A 71317
180-68219-43	W4, S2, B 71317
180-68219-44	W4, S4, A 71317
180-68219-45	W4, S4, B 71317

Laboratory ID	Client ID
180-68219-46	W4, S5, A 71317
180-68219-47	W4, S5, B 71317
180-68219-48	W4, S3, A 71317
180-68219-49	W4, S3, B 71317

The samples were received at the laboratory at 2.4-4.8ºC, within the criteria of 0-6ºC. No sample preservation issues were noted by the laboratory.

The following issues were noted with the chain of custody (COC):

- Incorrect error corrections were observed on the COC, instead of the proper procedure of a single strike through, correction, and initials and date of person making the corrections.

- There was no relinquishing documentation (no signature, date or time) on the six pages of COC.

- The collection times on the container labels for the MS/MSD aliquots of sample W4, S4, A 71317 did not match the information on the COC. The container labels listed a collection time of 15:45, while the parent sample has a collection times of 15:15. The MS/MSD aliquots were logged in with collection times of 15:15.

- The sample IDs and the collection dates and times on the container labels for the samples did not match the sample IDs and the collection dates and times on the COC. The samples were logged in with the information from the COC.

The solids data, used to report the samples on a dry weight basis, were not validated.

1.0 VOLATILE ORGANIC COMPOUNDS

The samples were analyzed for VOCs by EPA methods 5035/8260B.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

✓ Overall Assessment
✓ Holding Times
✓ Method Blank
✓ Matrix Spike/Matrix Spike Duplicate
✓ Laboratory Control Sample

- ✓ Surrogates
- ✓ Trip Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

1.1 Overall Assessment

The VOC data reported in this package are considered usable for meeting project objectives. The analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this data set is 100%.

The narrative indicated that the continuing calibration verification (CCV) percent difference (%D) for vinyl chloride in batch 217322 was high, outside method specified acceptance criteria. The %D was 23.8%, with a high bias; the method specified acceptance criteria is 20%D. Since vinyl chloride was not detected in the associated samples, no qualifications were applied to the data.

1.2 Holding Times

The holding time for the VOC analysis of a preserved solid sample collected as a terracore is 48 hours until laboratory receipt and 14 days from sample collection to analysis. The holding times were met for the sample analyses.

1.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 217322). VOCs were not detected in the method blank above the MDLs.

1.4 Matrix Spike/Matrix Spike Duplicate

MS/MSD pairs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One sample set specific MS/MSD pair was reported, using sample W4, S4, A 71317. The recovery and relative percent difference (RPD) results were within the laboratory specified acceptance criteria.

1.5 Laboratory Control Sample (LCS)

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery results were within the laboratory specified acceptance criteria.

1.6 Surrogates

Acceptable surrogate recoveries were reported.

1.7 Trip Blank

Trip blanks accompanied the associated solid samples, but were not reported in this laboratory report. Since the VOCs were not detected in the solid samples, this did not have an impact on the data.

1.8 Field Duplicate

Field duplicates were not collected with the sample set.

1.9 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were not reported.

1.10 Electronic Data Deliverable (EDD) Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

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* * * * *

ATTACHMENT 1
DATA VALIDATION QUALIFIER DEFINITIONS AND INTERPRETATION KEY
Assigned by Geosyntec's Data Validation Team

DATA QUALIFIER DEFINITIONS

U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

J+ The analyte was positively identified; however, the associated numerical value is likely to be higher that the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.

J- The analyte was positively identified; however, the associated numerical value is likely to be lower that the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ATTACHMENT 2
DATA VALIDATION REASON CODES
Assigned by Geosyntec's Data Validation Team

Valid Value	Description
1	Preservation requirement not met
2	Analysis holding time exceeded
3	Blank contamination (i.e., method, trip, equipment, etc.)
4	Matrix spike/matrix spike duplicate recovery or RPD outside limits
5	LCS recovery outside limits
6	Surrogate recovery outside limits
7	Field Duplicate RPD exceeded
8	Serial dilution percent difference exceeded
9	Calibration criteria not met
10	Linear range exceeded
11	Internal standard criteria not met
12	Lab duplicates RPD exceeded
13	Other

RPD-relative percent difference

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Request to Import/Reuse Fill or Soil

This form is based on the information required by DER-10, Section 5.4(e). Use of this form is not a substitute for reading the applicable Technical Guidance document.

SECTION 1 – SITE BACKGROUND

The allowable site use is: Restricted Residential Use

Have Ecological Resources been identified? yes

Is this soil originating from the site? no

How many cubic yards of soil will be imported/reused? 800-1000

If greater than 1000 cubic yards will be imported, enter volume to be imported:

SECTION 2 – MATERIAL OTHER THAN SOIL

Is the material to be imported gravel, rock or stone? no

Does it contain less than 10%, by weight, material that would pass a size 80 sieve? yes

Is this virgin material from a permitted mine or quarry? yes

Is this material recycled concrete or brick from a DEC registered processing facility? no

SECTION 3 - SAMPLING

Provide a brief description of the number and type of samples collected in the space below:

Seven (7) Discrete Samples were collected and analyzed for VOCs. Two (2) Composite Samples were collected and analyzed for SVOCs, Inorganics, and PCBs/Pesticides. The chain of custody incorrectly shows the same Sample ID for the composite samples and the first two discrete VOC samples. The Analytical Results have been attached to this form.

Two (2) composite samples were collected and analyzed for grain size distribution and moisture-density.

Example Text: 5 discrete samples were collected and analyzed for VOCs. 2 composite samples were collected and analyzed for SVOCs, Inorganics & PCBs/Pesticides.

If the material meets requirements of DER-10 section 5.5 (other material), no chemical testing needed.

SECTION 3 CONT'D - SAMPLING

Provide a brief written summary of the sampling results or attach evaluation tables (compare to DER-10, Appendix 5):

Analytical results are compared to Restricted Residential SCO.

VOC analyses: acetone, benzene, toluene, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene and total xylenes were detected in 7 of 7 samples at levels below Restricted Residential SCOs.

There were no detections of SVOCs, PCBs, or pesticides in the two composite samples.

Metals analyses: arsenic, barium, beryllium, copper, lead manganese, nickel, zinc, and mercury were detected at levels below Restricted Residential SCOs.

Example Text: Arsenic was detected up to 17 ppm in 1 (of 5) samples; the allowable level is 16 ppm.

If Ecological Resources have been identified use the "If Ecological Resources are Present" column in Appendix 5.

SECTION 4 – SOURCE OF FILL

Name of person providing fill and relationship to the source:

Edger Enterprises

Location where fill was obtained:

Brewer's Pit located in Horseheads NY

Identification of any state or local approvals as a fill source:

NYSDEC Facility ID 8-0734-00150

If no approvals are available, provide a brief history of the use of the property that is the fill source:

Provide a list of supporting documentation included with this request:

Geotechnical Data and the Chemical Analysis Reports

The information provided on this form is accurate and complete.

	6-23-17
Signature	Date
Kyle Snyder	
Print Name	
RECON	
Firm	

TABLE 1

Request for Reuse - Windrows W9, WB 6-7 and WB 7-8
Former Sperry Remington Site - North Portion
Elmira, New York

				Field_ID	W9, S1, A 072417	W9, S1, B 072417	W9, S1, C 072417	WB 7-8, S1, A 072417	WB 7-8, S1, B 072417	WB 7-8, S1, C 072417	WB 7-8, S2, A 072417	WB 7-8, S2, B 072417	WB 7-8, S2, C 072417
				Sample Date	7/24/2017	7/24/2017	7/24/2017	7/24/2017	7/24/2017	7/24/2017	7/24/2017	7/24/2017	7/24/2017
				Lab_Report_Number	180-68509-1	180-68509-1	180-68509-1	180-68509-1	180-68509-1	180-68509-1	180-68509-1	180-68509-1	180-68509-1
				NYSDEC DER10 App 5 Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010									
Group	**Analyte**	**Units**	**EQL**										
PCBs	Arochlor 1016	mg/kg	0.0095		-	-	<0.0095U	-	-	<0.012U	-	-	<0.012U
	Arochlor 1221	mg/kg	0.0093		-	-	<0.0093U	-	-	<0.012U	-	-	<0.012U
	Arochlor 1232	mg/kg	0.0071		-	-	<0.0071U	-	-	<0.0089U	-	-	<0.0089U
	Arochlor 1242	mg/kg	0.014		-	-	<0.014U	-	-	<0.018U	-	-	<0.018U
	Arochlor 1248	mg/kg	0.018		-	-	0.15J	-	-	1.3J	-	-	0.79J
	Arochlor 1254	mg/kg	0.018		-	-	0.053J	-	-	0.5J	-	-	0.3J
	Arochlor 1260	mg/kg	0.012		-	-	<0.012U	-	-	0.054J	-	-	0.043J
	Arochlor 1268	mg/kg	0.0055		-	-	<0.0055U	-	-	<0.0069U	-	-	<0.0069U
	Arochlor 1262	mg/kg	0.013		-	-	<0.013U	-	-	<0.016U	-	-	<0.016U
	Total PCBs	mg/kg		1	-	-	0.203	-	-	1.854	-	-	1.133
SVOCs	1,4-Dioxane	mg/kg	0.0061	0.1	-	-	<0.016U	-	-	<0.0069U	-	-	<0.014U
	2,4,5-trichlorophenol	mg/kg	0.0039		-	-	<0.01U	-	-	<0.0043U	-	-	<0.0087U
	2,4,6-trichlorophenol	mg/kg	0.0036		-	-	<0.0095U	-	-	<0.004U	-	-	<0.008U
	2,4-Dinitrotoluene	mg/kg	0.0054		-	-	<0.014U	-	-	<0.006U	-	-	<0.012U
	2-methylphenol	mg/kg	0.0036	0.33	-	-	<0.0096U	-	-	<0.004U	-	-	<0.0081U
	4-methylphenol	mg/kg	0.0096	0.33	-	-	<0.0096U	-	-	0.0082J	-	-	0.021J
	Acenaphthene	mg/kg	0.0082	98	-	-	0.021J	-	-	0.012	-	-	0.037
	Acenaphthylene	mg/kg	0.0082	100	-	-	0.052	-	-	0.029	-	-	0.062
	Anthracene	mg/kg	0.0082	100	-	-	0.077	-	-	0.045	-	-	0.1
	Benz(a)anthracene	mg/kg	0.0082	1	-	-	0.29	-	-	0.14	-	-	0.23
	Benzo(a) pyrene	mg/kg	0.0082	1	-	-	0.31	-	-	0.15	-	-	0.22
	Benzo(b)fluoranthene	mg/kg	0.0082	1	-	-	0.41	-	-	0.19	-	-	0.29
	Benzo(g,h,i)perylene	mg/kg	0.0082	100	-	-	0.34	-	-	0.16	-	-	0.22
	Benzo(k)fluoranthene	mg/kg	0.0082	1.7	-	-	0.14	-	-	0.08	-	-	0.1
	Chrysene	mg/kg	0.0082	1	-	-	0.36	-	-	0.16	-	-	0.25
	Dibenz(a,h)anthracene	mg/kg	0.0082	0.33	-	-	0.084	-	-	0.035	-	-	0.053
	Dibenzofuran	mg/kg	0.04	59	-	-	0.027J	-	-	0.0091J	-	-	0.028J
	Fluoranthene	mg/kg	0.0082	100	-	-	0.65	-	-	0.29	-	-	0.46
	Fluorene	mg/kg	0.0082	100	-	-	0.026	-	-	0.014	-	-	0.044
	Hexachlorobenzene	mg/kg	0.0033	1.2	-	-	<0.0087U	-	-	<0.0037U	-	-	<0.0074U
	Hexachlorobutadiene	mg/kg	0.0026		-	-	<0.0068U	-	-	<0.0029U	-	-	<0.0058U
	Hexachloroethane	mg/kg	0.0029		-	-	<0.0078U	-	-	<0.0033U	-	-	<0.0066U
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.0082	0.5	-	-	0.31	-	-	0.14	-	-	0.18
	Naphthalene	mg/kg	0.0082	12	-	-	0.047	-	-	0.011	-	-	0.03
	Nitrobenzene	mg/kg	0.0031		-	-	<0.0083U	-	-	<0.0035U	-	-	<0.007U
	Pentachlorophenol	mg/kg	0.077	0.8	-	-	<0.21U	-	-	<0.086U	-	-	<0.17U
	Phenanthrene	mg/kg	0.0082	100	-	-	0.28	-	-	0.12	-	-	0.28
	Phenol	mg/kg	0.0055	0.33	-	-	<0.015U	-	-	<0.0061U	-	-	<0.012U
	Pyrene	mg/kg	0.0082	100	-	-	0.45	-	-	0.21	-	-	0.33
	Pyridine	mg/kg	0.0039		-	-	<0.01U	-	-	<0.0044U	-	-	<0.0088U
Inorganics	Cyanide Total	mg/kg	0.53	27	-	-	0.37J	-	-	0.34J	-	-	0.3J
Metals	Arsenic	mg/kg	1.1	16	-	-	6.7	-	-	5.6	-	-	7.2
	Barium	mg/kg	23	400	-	-	68	-	-	90	-	-	97
	Beryllium	mg/kg	0.45	47	-	-	0.33J	-	-	0.31J	-	-	0.41J
	Cadmium	mg/kg	0.57	4.3	-	-	0.15J	-	-	0.23J	-	-	0.23J
	Chromium (III+VI)	mg/kg	0.57	19	-	-	10	-	-	9.2	-	-	12
	Copper	mg/kg	2.8	270	-	-	34	-	-	29	-	-	33
	Lead	mg/kg	1.1	400	-	-	35	-	-	39	-	-	42
	Manganese	mg/kg	1.7	2000	-	-	500	-	-	380	-	-	490
	Nickel	mg/kg	4.5	130	-	-	19	-	-	19	-	-	26
	Selenium	mg/kg	0.45	4	-	-	<0.45U	-	-	<0.55U	-	-	<0.55U
	Silver	mg/kg	0.19	8.3	-	-	<0.19U	-	-	<0.23U	-	-	<0.23U
	Zinc	mg/kg	2.3	2480	-	-	64	-	-	63	-	-	74
	Mercury	mg/kg	0.034	0.73	-	-	0.022J	-	-	0.044J	-	-	0.066

TABLE 1

Request for Reuse - Windrows W9, WB 6-7 and WB 7-8
Former Sperry Remington Site - North Portion
Elmira, New York

				Field_ID	W9, S1, A 072417	W9, S1, B 072417	W9, S1, C 072417	WB 7-8, S1, A 072417	WB 7-8, S1, B 072417	WB 7-8, S1, C 072417	WB 7-8, S2, A 072417	WB 7-8, S2, B 072417	WB 7-8, S2, C 072417
				Sample Date	7/24/2017	7/24/2017	7/24/2017	7/24/2017	7/24/2017	7/24/2017	7/24/2017	7/24/2017	7/24/2017
				Lab_Report_Number	180-68509-1	180-68509-1	180-68509-1	180-68509-1	180-68509-1	180-68509-1	180-68509-1	180-68509-1	180-68509-1
				NYSDEC DER10 App 5 Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010									
Group	**Analyte**	**Units**	**EQL**										
VOCs	1,1,1-trichloroethane	mg/kg	0.002	0.68	<0.0022U	<0.0023U	-	<0.0028U	<0.0027U	-	<0.0032U	<0.003U	-
	1,1-dichloroethane	mg/kg	0.0014	0.27	<0.0016U	<0.0017U	-	<0.002U	<0.002U	-	<0.0023U	<0.0021U	-
	1,1-dichloroethene	mg/kg	0.0023	0.33	<0.0025U	<0.0026U	-	<0.0032U	<0.0031U	-	<0.0037U	<0.0034U	-
	1,2,4-trimethylbenzene	mg/kg	0.0011	3.6	<0.0012U	<0.0012U	-	<0.0015U	<0.0015U	-	<0.0017U	<0.0016U	-
	1,2-dichlorobenzene	mg/kg	0.0032	1.1	<0.0035U	<0.0037U	-	<0.0044U	<0.0044U	-	<0.0052U	<0.0048U	-
	1,2-dichloroethane	mg/kg	0.0011	0.02	<0.0013U	<0.0013U	-	<0.0016U	<0.0016U	-	<0.0019U	<0.0017U	-
	1,3,5-trimethylbenzene	mg/kg	0.0014	8.4	<0.0015U	<0.0016U	-	<0.0019U	<0.0019U	-	<0.0022U	<0.002U	-
	1,3-dichlorobenzene	mg/kg	0.0013	2.4	<0.0014U	<0.0015U	-	<0.0018U	<0.0017U	-	<0.0021U	<0.0019U	-
	1,4-dichlorobenzene	mg/kg	0.00081	1.8	<0.00089U	<0.00093U	-	<0.0011U	<0.0011U	-	<0.0013U	<0.0012U	-
	Methyl Ethyl Ketone	mg/kg	0.0023	0.12	<0.0025U	<0.0026U	-	<0.0032U	<0.0032U	-	<0.0037U	<0.0034U	-
	Acetone	mg/kg	0.0025	0.05	<0.0028U	<0.0029U	-	<0.0035U	<0.0034U	-	<0.0041U	<0.0037U	-
	Benzene	mg/kg	0.0016	0.06	<0.0017U	<0.0018U	-	<0.0022U	<0.0021U	-	<0.0025U	<0.0023U	-
	Carbon tetrachloride	mg/kg	0.0026	0.76	<0.0029U	<0.003U	-	<0.0037U	<0.0036U	-	<0.0043U	<0.0039U	-
	Chlorobenzene	mg/kg	0.0012	1.1	<0.0014U	<0.0014U	-	<0.0017U	<0.0017U	-	<0.002U	<0.0019U	-
	Chloroform	mg/kg	0.0017	0.37	<0.0018U	<0.0019U	-	<0.0023U	<0.0023U	-	<0.0027U	<0.0025U	-
	cis-1,2-dichloroethene	mg/kg	0.0012	0.25	<0.0014U	<0.0014U	-	<0.0017U	<0.0017U	-	<0.002U	<0.0019U	-
	Dichloromethane	mg/kg	0.0019	0.05	<0.0021U	<0.0022U	-	<0.0026U	<0.0026U	-	<0.003U	<0.0028U	-
	Ethylbenzene	mg/kg	0.0017	1	<0.0019U	<0.002U	-	<0.0024U	<0.0024U	-	0.004J	<0.0026U	-
	Methyl-tert-butyl ether	mg/kg	0.0029	0.93	<0.0032U	<0.0034U	-	<0.0041U	<0.004U	-	<0.0048U	<0.0044U	-
	n-butylbenzene	mg/kg	0.003	12	<0.0033U	<0.0035U	-	<0.0042U	<0.0041U	-	<0.0049U	<0.0045U	-
	n-propylbenzene	mg/kg	0.0017	3.9	<0.0018U	<0.0019U	-	<0.0023U	<0.0023U	-	<0.0027U	<0.0025U	-
	sec-butylbenzene	mg/kg	0.0019	11	<0.0021U	<0.0022U	-	<0.0027U	<0.0027U	-	<0.0031U	<0.0029U	-
	Trichloroethene	mg/kg	0.0012	0.47	<0.0013U	<0.0014U	-	<0.0017U	<0.0016U	-	<0.0019U	<0.0018U	-
	tert-butylbenzene	mg/kg	0.0014	5.9	<0.0016U	<0.0017U	-	<0.002U	<0.002U	-	<0.0024U	<0.0022U	-
	Tetrachloroethene	mg/kg	0.0016	1.3	<0.0017U	<0.0018U	-	<0.0022U	<0.0022U	-	<0.0026U	<0.0024U	-
	Toluene	mg/kg	0.0013	0.7	<0.0015U	<0.0015U	-	<0.0019U	<0.0018U	-	<0.0022U	<0.002U	-
	trans-1,2-dichloroethene	mg/kg	0.002	0.19	<0.0022U	<0.0023U	-	<0.0028U	<0.0028U	-	<0.0033U	<0.003U	-
	Vinyl chloride	mg/kg	0.0029	0.02	<0.0032U	<0.0033U	-	<0.0041U	<0.004U	-	<0.0047U	<0.0043U	-
	Xylene Total	mg/kg	0.0034	1.6	<0.0038U	<0.0039U	-	<0.0048U	<0.0047U	-	0.026	<0.0051U	-

TABLE 1

Request for Reuse - Windrows W9, WB 6-7 and WB 7-8
Former Sperry Remington Site - North Portion
Elmira, New York

				Field_ID	WB 7-8, S3, A 072417	WB 7-8, S3, B 072417	WB 7-8, S3, C 072417	WB 7-8, S4, A 072417	WB 7-8, S4, B 072417	WB 7-8, S4, C 072417	WB6-7, S1, A 72517	WB6-7, S1, B 72517	WB6-7, S1, C 72517
				Sample Date	7/24/2017	7/24/2017	7/24/2017	7/24/2017	7/24/2017	7/24/2017	7/25/2017	7/25/2017	7/25/2017
				Lab_Report_Number	180-68509-1	180-68509-1	180-68509-1	180-68509-1	180-68509-1	180-68509-1	180-68556-1	180-68556-1	180-68556-1
				NYSDEC DER10 App 5 Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010									
Group	**Analyte**	**Units**	**EQL**										
PCBs	Arochlor 1016	mg/kg	0.0095		-	-	<0.011U	-	-	<0.012U	-	-	<0.011U
	Arochlor 1221	mg/kg	0.0093		-	-	<0.011U	-	-	<0.012U	-	-	<0.011U
	Arochlor 1232	mg/kg	0.0071		-	-	<0.0085U	-	-	<0.0091U	-	-	<0.0085U
	Arochlor 1242	mg/kg	0.014		-	-	<0.017U	-	-	<0.018U	-	-	<0.017U
	Arochlor 1248	mg/kg	0.018		-	-	1.3J	-	-	1J	-	-	0.78J
	Arochlor 1254	mg/kg	0.018		-	-	0.46J	-	-	0.42J	-	-	0.29J
	Arochlor 1260	mg/kg	0.012		-	-	0.05J	-	-	0.04J	-	-	0.041J
	Arochlor 1268	mg/kg	0.0055		-	-	<0.0065U	-	-	<0.007U	-	-	<0.0066U
	Arochlor 1262	mg/kg	0.013		-	-	<0.015U	-	-	<0.016U	-	-	<0.015U
	Total PCBs	mg/kg		1	-	-	1.81	-	-	1.46	-	-	1.111
SVOCs	1,4-Dioxane	mg/kg	0.0061	0.1	-	-	<0.0065U	-	-	<0.007U	-	-	<0.0065U
	2,4,5-trichlorophenol	mg/kg	0.0039		-	-	<0.0041U	-	-	<0.0044U	-	-	<0.0041U
	2,4,6-trichlorophenol	mg/kg	0.0036		-	-	<0.0038U	-	-	<0.0041U	-	-	<0.0038U
	2,4-Dinitrotoluene	mg/kg	0.0054		-	-	<0.0057U	-	-	<0.0062U	-	-	<0.0057U
	2-methylphenol	mg/kg	0.0036	0.33	-	-	<0.0038U	-	-	<0.0041U	-	-	<0.0038U
	4-methylphenol	mg/kg	0.0096	0.33	-	-	0.019J	-	-	0.0074J	-	-	0.0091J
	Acenaphthene	mg/kg	0.0082	98	-	-	0.013	-	-	0.0089J	-	-	0.0044J
	Acenaphthylene	mg/kg	0.0082	100	-	-	0.12	-	-	0.052	-	-	0.04
	Anthracene	mg/kg	0.0082	100	-	-	0.097	-	-	0.05	-	-	0.035
	Benz(a)anthracene	mg/kg	0.0082	1	-	-	0.18	-	-	0.12	-	-	0.12
	Benzo(a) pyrene	mg/kg	0.0082	1	-	-	0.19	-	-	0.13	-	-	0.13
	Benzo(b)fluoranthene	mg/kg	0.0082	1	-	-	0.27	-	-	0.17	-	-	0.18
	Benzo(g,h,i)perylene	mg/kg	0.0082	100	-	-	0.25	-	-	0.14	-	-	0.15
	Benzo(k)fluoranthene	mg/kg	0.0082	1.7	-	-	0.085	-	-	0.058	-	-	0.067
	Chrysene	mg/kg	0.0082	1	-	-	0.26	-	-	0.13	-	-	0.15
	Dibenz(a,h)anthracene	mg/kg	0.0082	0.33	-	-	0.062	-	-	0.037	-	-	0.032
	Dibenzofuran	mg/kg	0.04	59	-	-	0.011J	-	-	0.0078J	-	-	0.0078J
	Fluoranthene	mg/kg	0.0082	100	-	-	0.31	-	-	0.23	-	-	0.21
	Fluorene	mg/kg	0.0082	100	-	-	0.019	-	-	0.013	-	-	0.0081J
	Hexachlorobenzene	mg/kg	0.0033	1.2	-	-	<0.0035U	-	-	<0.0037U	-	-	<0.0035U
	Hexachlorobutadiene	mg/kg	0.0026		-	-	<0.0027U	-	-	<0.0029U	-	-	<0.0027U
	Hexachloroethane	mg/kg	0.0029		-	-	<0.0031U	-	-	<0.0033U	-	-	<0.0031U
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.0082	0.5	-	-	0.2	-	-	0.12	-	-	0.12
	Naphthalene	mg/kg	0.0082	12	-	-	0.03	-	-	0.016	-	-	0.018
	Nitrobenzene	mg/kg	0.0031		-	-	<0.0033U	-	-	<0.0036U	-	-	<0.0033U
	Pentachlorophenol	mg/kg	0.077	0.8	-	-	<0.081U	-	-	<0.088U	-	-	<0.082U
	Phenanthrene	mg/kg	0.0082	100	-	-	0.14	-	-	0.1	-	-	0.075
	Phenol	mg/kg	0.0055	0.33	-	-	<0.0058U	-	-	<0.0063U	-	-	<0.0058U
	Pyrene	mg/kg	0.0082	100	-	-	0.26	-	-	0.17	-	-	0.16
	Pyridine	mg/kg	0.0039		-	-	<0.0041U	-	-	<0.0044U	-	-	<0.0041U
Inorganics	Cyanide Total	mg/kg	0.53	27	-	-	0.4J	-	-	0.75	-	-	0.47J
Metals	Arsenic	mg/kg	1.1	16	-	-	7.4	-	-	5.9	-	-	4.7
	Barium	mg/kg	23	400	-	-	120	-	-	95	-	-	72
	Beryllium	mg/kg	0.45	47	-	-	0.45J	-	-	0.34J	-	-	0.27J
	Cadmium	mg/kg	0.57	4.3	-	-	0.26J	-	-	0.19J	-	-	0.21J
	Chromium (III+VI)	mg/kg	0.57	19	-	-	14	-	-	9.6	-	-	8.2
	Copper	mg/kg	2.8	270	-	-	33	-	-	21	-	-	23
	Lead	mg/kg	1.1	400	-	-	46	-	-	35	-	-	23
	Manganese	mg/kg	1.7	2000	-	-	510	-	-	450	-	-	400
	Nickel	mg/kg	4.5	130	-	-	39	-	-	17	-	-	16
	Selenium	mg/kg	0.45	4	-	-	<0.56U	-	-	<0.53U	-	-	<0.51U
	Silver	mg/kg	0.19	8.3	-	-	<0.23U	-	-	<0.22U	-	-	<0.21U
	Zinc	mg/kg	2.3	2480	-	-	110	-	-	55	-	-	53
	Mercury	mg/kg	0.034	0.73	-	-	0.06	-	-	0.048	-	-	0.035J

TABLE 1

Request for Reuse - Windrows W9, WB 6-7 and WB 7-8
Former Sperry Remington Site - North Portion
Elmira, New York

				Field_ID	WB 7-8, S3, A 072417	WB 7-8, S3, B 072417	WB 7-8, S3, C 072417	WB 7-8, S4, A 072417	WB 7-8, S4, B 072417	WB 7-8, S4, C 072417	WB6-7, S1, A 72517	WB6-7, S1, B 72517	WB6-7, S1, C 72517
				Sample Date	7/24/2017	7/24/2017	7/24/2017	7/24/2017	7/24/2017	7/24/2017	7/25/2017	7/25/2017	7/25/2017
				Lab_Report_Number	180-68509-1	180-68509-1	180-68509-1	180-68509-1	180-68509-1	180-68509-1	180-68556-1	180-68556-1	180-68556-1
				NYSDEC DER10 App 5 Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010									
Group	**Analyte**	**Units**	**EQL**										
VOCs	1,1,1-trichloroethane	mg/kg	0.002	0.68	<0.0027U	<0.0022U	-	<0.0032U	<0.0036U	-	<0.0033U	<0.0036U	-
	1,1-dichloroethane	mg/kg	0.0014	0.27	<0.0019U	<0.0016U	-	<0.0023U	<0.0026U	-	<0.0024U	<0.0026U	-
	1,1-dichloroethene	mg/kg	0.0023	0.33	<0.003U	<0.0025U	-	<0.0037U	<0.0041U	-	<0.0037U	<0.0041U	-
	1,2,4-trimethylbenzene	mg/kg	0.0011	3.6	<0.0014U	<0.0012U	-	<0.0017U	<0.002U	-	<0.0018U	<0.0019U	-
	1,2-dichlorobenzene	mg/kg	0.0032	1.1	<0.0043U	<0.0036U	-	<0.0052U	<0.0058U	-	<0.0053U	<0.0057U	-
	1,2-dichloroethane	mg/kg	0.0011	0.02	<0.0015U	<0.0013U	-	<0.0019U	<0.0021U	-	<0.0019U	<0.0021U	-
	1,3,5-trimethylbenzene	mg/kg	0.0014	8.4	<0.0018U	<0.0015U	-	<0.0022U	<0.0025U	-	<0.0023U	<0.0025U	-
	1,3-dichlorobenzene	mg/kg	0.0013	2.4	<0.0017U	<0.0014U	-	<0.0021U	<0.0023U	-	<0.0021U	<0.0023U	-
	1,4-dichlorobenzene	mg/kg	0.00081	1.8	<0.0011U	<0.00091U	-	<0.0013U	<0.0015U	-	<0.0013U	<0.0015U	-
	Methyl Ethyl Ketone	mg/kg	0.0023	0.12	<0.0031U	<0.0026U	-	<0.0038U	<0.0042U	-	<0.0038U	<0.0041U	-
	Acetone	mg/kg	0.0025	0.05	<0.0033U	<0.0028U	-	<0.0041U	<0.0046U	-	<0.0041U	<0.0045U	-
	Benzene	mg/kg	0.0016	0.06	<0.0021U	<0.0018U	-	<0.0025U	<0.0028U	-	<0.0026U	<0.0028U	-
	Carbon tetrachloride	mg/kg	0.0026	0.76	<0.0035U	<0.003U	-	<0.0043U	<0.0048U	-	<0.0043U	<0.0047U	-
	Chlorobenzene	mg/kg	0.0012	1.1	<0.0017U	<0.0014U	-	<0.002U	<0.0023U	-	<0.0021U	<0.0022U	-
	Chloroform	mg/kg	0.0017	0.37	<0.0022U	<0.0019U	-	<0.0027U	<0.0031U	-	<0.0028U	<0.003U	-
	cis-1,2-dichloroethene	mg/kg	0.0012	0.25	<0.0017U	<0.0014U	-	<0.002U	<0.0023U	-	<0.0021U	<0.0022U	-
	Dichloromethane	mg/kg	0.0019	0.05	<0.0025U	<0.0021U	-	<0.0031U	<0.0034U	-	<0.0031U	<0.0034U	-
	Ethylbenzene	mg/kg	0.0017	1	<0.0023U	<0.0019U	-	<0.0028U	<0.0031U	-	<0.0028U	<0.0031U	-
	Methyl-tert-butyl ether	mg/kg	0.0029	0.93	<0.0039U	<0.0033U	-	<0.0048U	<0.0053U	-	<0.0048U	<0.0053U	-
	n-butylbenzene	mg/kg	0.003	12	<0.004U	<0.0034U	-	<0.0049U	<0.0055U	-	<0.005U	<0.0054U	-
	n-propylbenzene	mg/kg	0.0017	3.9	<0.0022U	<0.0019U	-	<0.0027U	<0.0031U	-	<0.0028U	<0.003U	-
	sec-butylbenzene	mg/kg	0.0019	11	<0.0026U	<0.0022U	-	<0.0032U	<0.0035U	-	<0.0032U	<0.0035U	-
	Trichloroethene	mg/kg	0.0012	0.47	<0.0016U	<0.0013U	-	<0.0019U	<0.0022U	-	<0.002U	<0.0021U	-
	tert-butylbenzene	mg/kg	0.0014	5.9	<0.0019U	<0.0016U	-	<0.0024U	<0.0027U	-	<0.0024U	<0.0026U	-
	Tetrachloroethene	mg/kg	0.0016	1.3	<0.0021U	<0.0018U	-	<0.0026U	<0.0029U	-	<0.0026U	<0.0029U	-
	Toluene	mg/kg	0.0013	0.7	<0.0018U	<0.0015U	-	<0.0022U	<0.0024U	-	<0.0022U	<0.0024U	-
	trans-1,2-dichloroethene	mg/kg	0.002	0.19	<0.0027U	<0.0023U	-	<0.0033U	<0.0037U	-	<0.0033U	<0.0036U	-
	Vinyl chloride	mg/kg	0.0029	0.02	<0.0039U	<0.0033U	-	<0.0048U	<0.0053U	-	<0.0048U	<0.0052U	-
	Xylene Total	mg/kg	0.0034	1.6	<0.0046U	<0.0038U	-	<0.0056U	<0.0063U	-	<0.0056U	<0.0062U	-

TABLE 1

Request for Reuse - Windrows W9, WB 6-7 and WB 7-8
Former Sperry Remington Site - North Portion
Elmira, New York

				Field_ID	WB6-7, S2, A 72517	WB6-7, S2, B 72517	WB6-7, S2, C 72517	WB7-8, S5, A 72517	WB7-8, S5, B 72517	WB7-8, S5, C 72517
				Sample Date	7/25/2017	7/25/2017	7/25/2017	7/25/2017	7/25/2017	7/25/2017
				Lab_Report_Number	180-68556-1	180-68556-1	180-68556-1	180-68556-1	180-68556-1	180-68556-1
				NYSDEC DER10 App 5 Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010						
Group	**Analyte**	**Units**	**EQL**							
PCBs	Arochlor 1016	mg/kg	0.0095		-	-	<0.011U	-	-	<0.012U
	Arochlor 1221	mg/kg	0.0093		-	-	<0.011U	-	-	<0.011U
	Arochlor 1232	mg/kg	0.0071		-	-	<0.0081U	-	-	<0.0088U
	Arochlor 1242	mg/kg	0.014		-	-	<0.016U	-	-	<0.018U
	Arochlor 1248	mg/kg	0.018		-	-	0.98J	-	-	0.87J
	Arochlor 1254	mg/kg	0.018		-	-	0.43J	-	-	0.36J
	Arochlor 1260	mg/kg	0.012		-	-	0.059J	-	-	0.038J
	Arochlor 1268	mg/kg	0.0055		-	-	<0.0062U	-	-	<0.0067U
	Arochlor 1262	mg/kg	0.013		-	-	<0.015U	-	-	<0.016U
	Total PCBs	mg/kg		1	-	-	1.469	-	-	1.268
SVOCs	1,4-Dioxane	mg/kg	0.0061	0.1	-	-	<0.0061U	-	-	<0.0067U,F2
	2,4,5-trichlorophenol	mg/kg	0.0039		-	-	<0.0039U	-	-	<0.0042U,F2
	2,4,6-trichlorophenol	mg/kg	0.0036		-	-	<0.0036U	-	-	<0.0039U,F2
	2,4-Dinitrotoluene	mg/kg	0.0054		-	-	<0.0054U	-	-	<0.0059U,F2
	2-methylphenol	mg/kg	0.0036	0.33	-	-	<0.0036U	-	-	<0.0039U,F2
	4-methylphenol	mg/kg	0.0096	0.33	-	-	0.0055J	-	-	0.012J
	Acenaphthene	mg/kg	0.0082	98	-	-	0.032	-	-	0.0091J
	Acenaphthylene	mg/kg	0.0082	100	-	-	0.042	-	-	0.038J
	Anthracene	mg/kg	0.0082	100	-	-	0.1	-	-	0.036J
	Benz(a)anthracene	mg/kg	0.0082	1	-	-	0.24	-	-	0.097J
	Benzo(a) pyrene	mg/kg	0.0082	1	-	-	0.23	-	-	0.1J
	Benzo(b)fluoranthene	mg/kg	0.0082	1	-	-	0.28	-	-	0.14J
	Benzo(g,h,i)perylene	mg/kg	0.0082	100	-	-	0.24	-	-	0.096J
	Benzo(k)fluoranthene	mg/kg	0.0082	1.7	-	-	0.12	-	-	0.051J
	Chrysene	mg/kg	0.0082	1	-	-	0.27	-	-	0.11J
	Dibenz(a,h)anthracene	mg/kg	0.0082	0.33	-	-	0.054	-	-	0.024J
	Dibenzofuran	mg/kg	0.04	59	-	-	0.023J	-	-	0.0075J
	Fluoranthene	mg/kg	0.0082	100	-	-	0.51	-	-	0.18J
	Fluorene	mg/kg	0.0082	100	-	-	0.032	-	-	0.011J
	Hexachlorobenzene	mg/kg	0.0033	1.2	-	-	<0.0033U	-	-	<0.0036U,F2
	Hexachlorobutadiene	mg/kg	0.0026		-	-	<0.0026U	-	-	<0.0028U,F2
	Hexachloroethane	mg/kg	0.0029		-	-	<0.0029U	-	-	<0.0032U,F2
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.0082	0.5	-	-	0.2	-	-	0.082J
	Naphthalene	mg/kg	0.0082	12	-	-	0.028	-	-	0.015J
	Nitrobenzene	mg/kg	0.0031		-	-	<0.0031U	-	-	<0.0034U,F2
	Pentachlorophenol	mg/kg	0.077	0.8	-	-	<0.077U	-	-	<0.084U,F2
	Phenanthrene	mg/kg	0.0082	100	-	-	0.31	-	-	0.085J
	Phenol	mg/kg	0.0055	0.33	-	-	<0.0055U	-	-	<0.006U,F2
	Pyrene	mg/kg	0.0082	100	-	-	0.38	-	-	0.15J
	Pyridine	mg/kg	0.0039		-	-	<0.0039U	-	-	<0.0042UJ
Inorganics	Cyanide Total	mg/kg	0.53	27	-	-	0.29J	-	-	0.38J
Metals	Arsenic	mg/kg	1.1	16	-	-	7.1	-	-	5.6
	Barium	mg/kg	23	400	-	-	68	-	-	90
	Beryllium	mg/kg	0.45	47	-	-	0.31J	-	-	0.38J
	Cadmium	mg/kg	0.57	4.3	-	-	0.16J	-	-	0.26J
	Chromium (III+VI)	mg/kg	0.57	19	-	-	10	-	-	9.8
	Copper	mg/kg	2.8	270	-	-	35	-	-	21
	Lead	mg/kg	1.1	400	-	-	28	-	-	22
	Manganese	mg/kg	1.7	2000	-	-	400	-	-	420
	Nickel	mg/kg	4.5	130	-	-	18	-	-	18
	Selenium	mg/kg	0.45	4	-	-	<0.48U	-	-	<0.55U
	Silver	mg/kg	0.19	8.3	-	-	<0.2U	-	-	<0.23U
	Zinc	mg/kg	2.3	2480	-	-	55	-	-	59
	Mercury	mg/kg	0.034	0.73	-	-	0.033J	-	-	0.036J,F1

TABLE 1

Request for Reuse - Windrows W9, WB 6-7 and WB 7-8
Former Sperry Remington Site - North Portion
Elmira, New York

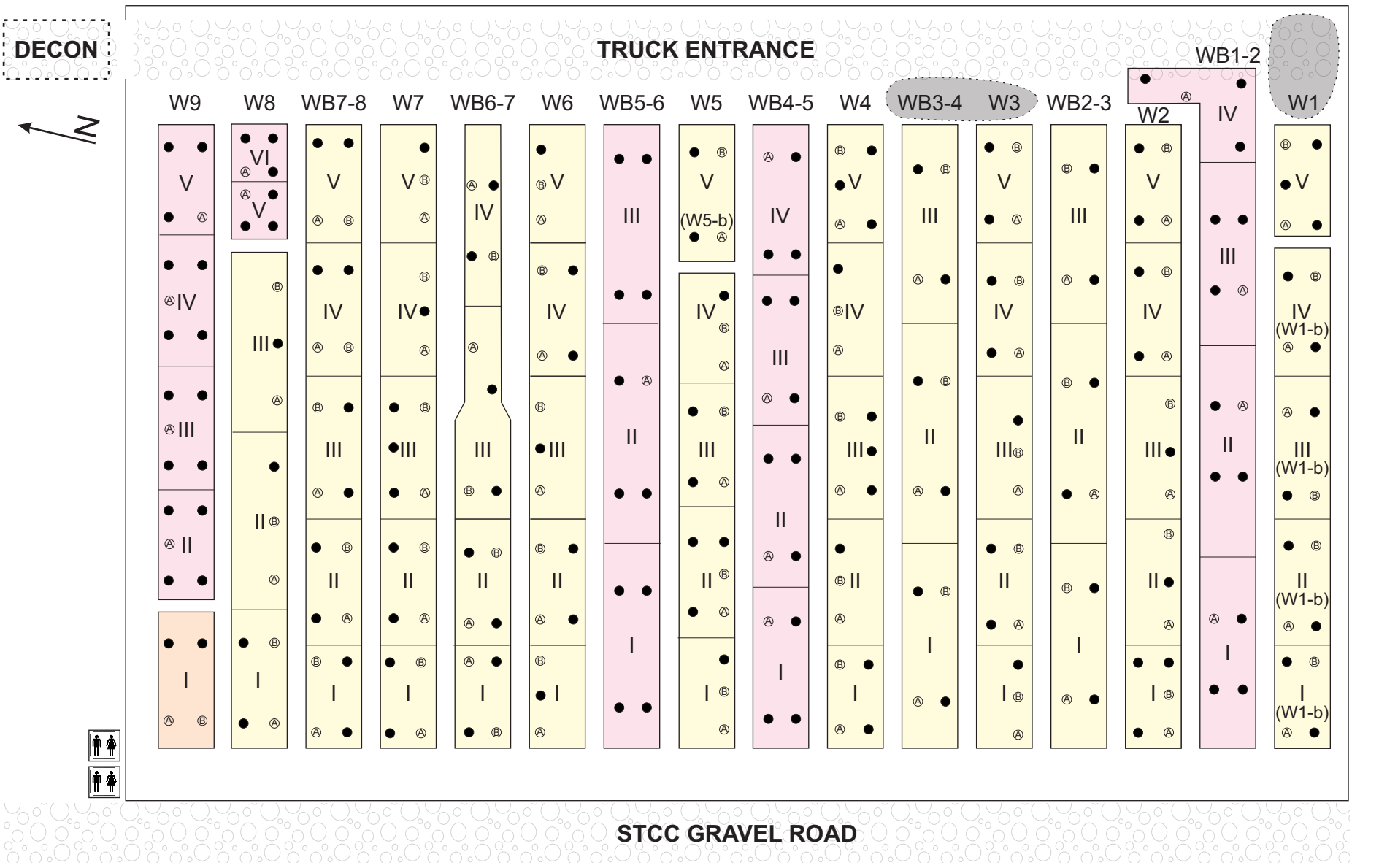
				Field_ID	WB6-7, S2, A 72517	WB6-7, S2, B 72517	WB6-7, S2, C 72517	WB7-8, S5, A 72517	WB7-8, S5, B 72517	WB7-8, S5, C 72517
				Sample Date	7/25/2017	7/25/2017	7/25/2017	7/25/2017	7/25/2017	7/25/2017
				Lab_Report_Number	180-68556-1	180-68556-1	180-68556-1	180-68556-1	180-68556-1	180-68556-1
				NYSDEC DER10 App 5 Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010						
Group	**Analyte**	**Units**	**EQL**							
VOCs	1,1,1-trichloroethane	mg/kg	0.002	0.68	<0.0026U	<0.002U	-	<0.0037U,F1	<0.0025U	-
	1,1-dichloroethane	mg/kg	0.0014	0.27	<0.0019U	<0.0014U	-	<0.0027U	<0.0018U	-
	1,1-dichloroethene	mg/kg	0.0023	0.33	<0.003U	<0.0023U	-	<0.0042U	<0.0028U	-
	1,2,4-trimethylbenzene	mg/kg	0.0011	3.6	<0.0014U	<0.0011U	-	<0.002U,F1	<0.0013U	-
	1,2-dichlorobenzene	mg/kg	0.0032	1.1	<0.0042U	<0.0032U	-	<0.0059U	<0.004U	-
	1,2-dichloroethane	mg/kg	0.0011	0.02	<0.0015U	<0.0011U	-	<0.0021U	<0.0014U	-
	1,3,5-trimethylbenzene	mg/kg	0.0014	8.4	<0.0018U	<0.0014U	-	<0.0025U	<0.0017U	-
	1,3-dichlorobenzene	mg/kg	0.0013	2.4	<0.0017U	<0.0013U	-	<0.0023U	<0.0016U	-
	1,4-dichlorobenzene	mg/kg	0.00081	1.8	<0.0011U	<0.00081U	-	<0.0015U	<0.001U	-
	Methyl Ethyl Ketone	mg/kg	0.0023	0.12	<0.0031U	<0.0023U	-	<0.0043U	<0.0029U	-
	Acetone	mg/kg	0.0025	0.05	<0.0033U	<0.0025U	-	<0.0046U	<0.0031U	-
	Benzene	mg/kg	0.0016	0.06	<0.0021U	<0.0016U	-	<0.0029U	<0.002U	-
	Carbon tetrachloride	mg/kg	0.0026	0.76	<0.0035U	<0.0026U	-	<0.0049U,F1	<0.0033U	-
	Chlorobenzene	mg/kg	0.0012	1.1	<0.0017U	<0.0012U	-	<0.0023U	<0.0016U	-
	Chloroform	mg/kg	0.0017	0.37	<0.0022U	<0.0017U	-	<0.0031U	<0.0021U	-
	cis-1,2-dichloroethene	mg/kg	0.0012	0.25	<0.0017U	<0.0012U	-	<0.0023U	<0.0016U	-
	Dichloromethane	mg/kg	0.0019	0.05	<0.0025U	<0.0019U	-	<0.0035U	<0.0023U	-
	Ethylbenzene	mg/kg	0.0017	1	<0.0023U	<0.0017U	-	<0.0032U	<0.0021U	-
	Methyl-tert-butyl ether	mg/kg	0.0029	0.93	<0.0039U	<0.0029U	-	<0.0054U	<0.0037U	-
	n-butylbenzene	mg/kg	0.003	12	<0.004U	<0.003U	-	<0.0056U	<0.0038U	-
	n-propylbenzene	mg/kg	0.0017	3.9	<0.0022U	<0.0017U	-	<0.0031U,F1	<0.0021U	-
	sec-butylbenzene	mg/kg	0.0019	11	<0.0026U	<0.0019U	-	<0.0036U	<0.0024U	-
	Trichloroethene	mg/kg	0.0012	0.47	<0.0016U	<0.0012U	-	<0.0022U	<0.0015U	-
	tert-butylbenzene	mg/kg	0.0014	5.9	<0.0019U	<0.0014U	-	<0.0027U	<0.0018U	-
	Tetrachloroethene	mg/kg	0.0016	1.3	<0.0021U	<0.0016U	-	<0.0029U	<0.002U	-
	Toluene	mg/kg	0.0013	0.7	<0.0018U	<0.0013U	-	<0.0025U	<0.0017U	-
	trans-1,2-dichloroethene	mg/kg	0.002	0.19	<0.0027U	<0.002U	-	<0.0037U	<0.0025U	-
	Vinyl chloride	mg/kg	0.0029	0.02	<0.0039U	<0.0029U	-	<0.0054U	<0.0036U	-
	Xylene Total	mg/kg	0.0034	1.6	<0.0045U	<0.0034U	-	<0.0063U	<0.0043U	-

DATA QUALIFIER DEFINITIONS

U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J	The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
J+	The analyte was positively identified; however, the associated numerical value is likely to be higher that the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.
J-	The analyte was positively identified; however, the associated numerical value is likely to be lower that the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.
UJ	The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

FORMER SPERRY REMINGTION STCC STOCKPILE AREA

as of August 8, 2017



Legend

10<50 ppm | TSCA overlay | <10 ppm | Gravel Road(s) | I-VI Windrow ≤100yd³ sections | Sample(s)

Mulch, Asphalt, Concrete

Note: This figure is not to scale, but depicts general location of windrows, sections, approximate sampling locations, and material PCB concentrations. There is no SIV of W8.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

TestAmerica Job ID: 180-68509-1
Client Project/Site: Former Sperry Remington Site - North IRM

For:
Geosyntec Consultants, Inc.
10211 Wincopin Circle
4'th Floor
Columbia, Maryland 21044

Attn: Mr. Aron Krasnopoler

Authorized for release by:
7/28/2017 4:37:35 PM

David Dunlap, Senior Project Manager
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LINKS

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Job ID: 180-68509-1

Laboratory: TestAmerica Pittsburgh

Narrative

Job Narrative
180-68509-1

Receipt
The samples were received on 7/25/2017 9:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 2.6º C, 4.1º C and 4.4º C.

GC/MS VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC/MS Semi VOA
Method(s) 8270D LL: The following samples were diluted due to the nature of the sample matrix (viscous extracts): WB 7-8, S2, C 072417 (180-68509-6), W9, S1, C 072417 (180-68509-15), and DUP 14 (180-68509-24). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc. TestAmerica Job ID: 180-68509-1
Project/Site: Former Sperry Remington Site - North IRM

Laboratory: TestAmerica Pittsburgh

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	11182	03-31-18

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
2540G		Solid	Percent Moisture
2540G		Solid	Percent Solids
8270D LL	3541	Solid	1,4-Dioxane

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68509-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-68509-1	WB 7-8, S1, A 072417	Solid	07/24/17 10:05	07/25/17 09:15
180-68509-2	WB 7-8, S1, B 072417	Solid	07/24/17 10:10	07/25/17 09:15
180-68509-3	WB 7-8, S1, C 072417	Solid	07/24/17 10:20	07/25/17 09:15
180-68509-4	WB 7-8, S2, A 072417	Solid	07/24/17 10:45	07/25/17 09:15
180-68509-5	WB 7-8, S2, B 072417	Solid	07/24/17 10:50	07/25/17 09:15
180-68509-6	WB 7-8, S2, C 072417	Solid	07/24/17 10:55	07/25/17 09:15
180-68509-7	WB 7-8, S3, A 072417	Solid	07/24/17 11:10	07/25/17 09:15
180-68509-8	WB 7-8, S3, B 072417	Solid	07/24/17 11:20	07/25/17 09:15
180-68509-9	WB 7-8, S3, C 072417	Solid	07/24/17 11:30	07/25/17 09:15
180-68509-10	WB 7-8, S4, A 072417	Solid	07/24/17 12:05	07/25/17 09:15
180-68509-11	WB 7-8, S4, B 072417	Solid	07/24/17 12:10	07/25/17 09:15
180-68509-12	WB 7-8, S4, C 072417	Solid	07/24/17 12:15	07/25/17 09:15
180-68509-13	W9, S1, A 072417	Solid	07/24/17 13:10	07/25/17 09:15
180-68509-14	W9, S1, B 072417	Solid	07/24/17 13:15	07/25/17 09:15
180-68509-15	W9, S1, C 072417	Solid	07/24/17 13:20	07/25/17 09:15
180-68509-22	TRIP BLANK	Water	07/24/17 00:00	07/25/17 09:15
180-68509-23	DUP 15	Solid	07/24/17 00:00	07/25/17 09:15
180-68509-24	DUP 14	Solid	07/24/17 00:00	07/25/17 09:15

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68509-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL PIT
8260C	Volatile Organic Compounds (GC/MS)	SW846	TAL PIT
8270D LL	Semivolatile Organic Compounds by GC/MS - Low Level	SW846	TAL PIT
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL PIT
6010C	Metals (ICP)	SW846	TAL PIT
7471B	Mercury (CVAA)	SW846	TAL PIT
2540G	SM 2540G	SM22	TAL PIT
9014	Cyanide	SW846	TAL PIT

Protocol References:

SM22 = SM22

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68509-1

Client Sample ID: WB 7-8, S1, A 072417
Lab Sample ID: 180-68509-1
Date Collected: 07/24/17 10:05
Matrix: Solid
Date Received: 07/25/17 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218069	07/25/17 15:39	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: WB 7-8, S1, A 072417
Lab Sample ID: 180-68509-1
Date Collected: 07/24/17 10:05
Matrix: Solid
Date Received: 07/25/17 09:15
Percent Solids: 78.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.7664 g	5 mL	218110	07/26/17 05:40	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	218103	07/26/17 16:12	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: WB 7-8, S1, B 072417
Lab Sample ID: 180-68509-2
Date Collected: 07/24/17 10:10
Matrix: Solid
Date Received: 07/25/17 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218069	07/25/17 15:39	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: WB 7-8, S1, B 072417
Lab Sample ID: 180-68509-2
Date Collected: 07/24/17 10:10
Matrix: Solid
Date Received: 07/25/17 09:15
Percent Solids: 70.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.4722 g	5 mL	218110	07/26/17 05:40	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	218103	07/26/17 16:35	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: WB 7-8, S1, C 072417
Lab Sample ID: 180-68509-3
Date Collected: 07/24/17 10:20
Matrix: Solid
Date Received: 07/25/17 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218069	07/25/17 15:39	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: WB 7-8, S1, C 072417
Lab Sample ID: 180-68509-3
Date Collected: 07/24/17 10:20
Matrix: Solid
Date Received: 07/25/17 09:15
Percent Solids: 73.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	0.5 mL	218278	07/27/17 11:21	MAL	TAL PIT

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68509-1

Client Sample ID: WB 7-8, S1, C 072417

Lab Sample ID: 180-68509-3
Date Collected: 07/24/17 10:20
Matrix: Solid
Date Received: 07/25/17 09:15
Percent Solids: 73.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8270D LL		1	1 mL	1 mL	218265	07/27/17 20:25	VVP	TAL PIT
	Instrument ID: CH732									
Total/NA	Prep	3541			15.1 g	20.0 mL	218112	07/26/17 08:33	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	218177	07/26/17 13:57	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	218178	07/26/17 13:58	JMO	TAL PIT
Total/NA	Analysis	8082A		1			218100	07/27/17 00:48	JMO	TAL PIT
	Instrument ID: CHGC16									
Total/NA	Prep	3050B			0.98 g	100 mL	218293	07/27/17 12:44	CRM	TAL PIT
Total/NA	Analysis	6010C		1			218421	07/28/17 08:45	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.60 g	100 mL	218097	07/26/17 05:04	RJR	TAL PIT
Total/NA	Analysis	7471B		1			218142	07/26/17 09:20	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.01 g	50 mL	218282	07/27/17 11:19	JAS	TAL PIT
Total/NA	Analysis	9014		1			218335	07/27/17 14:49	JAS	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: WB 7-8, S2, A 072417

Lab Sample ID: 180-68509-4
Date Collected: 07/24/17 10:45
Matrix: Solid
Date Received: 07/25/17 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218069	07/25/17 15:39	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: WB 7-8, S2, A 072417

Lab Sample ID: 180-68509-4
Date Collected: 07/24/17 10:45
Matrix: Solid
Date Received: 07/25/17 09:15
Percent Solids: 79.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.8871 g	5 mL	218110	07/26/17 05:40	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	218103	07/26/17 16:58	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: WB 7-8, S2, B 072417

Lab Sample ID: 180-68509-5
Date Collected: 07/24/17 10:50
Matrix: Solid
Date Received: 07/25/17 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218069	07/25/17 15:39	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68509-1

Client Sample ID: WB 7-8, S2, B 072417
Date Collected: 07/24/17 10:50
Date Received: 07/25/17 09:15

Lab Sample ID: 180-68509-5
Matrix: Solid
Percent Solids: 74.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.683 g	5 mL	218236	07/27/17 05:30	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	218225	07/27/17 12:26	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: WB 7-8, S2, C 072417
Date Collected: 07/24/17 10:55
Date Received: 07/25/17 09:15

Lab Sample ID: 180-68509-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218069	07/25/17 15:39	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: WB 7-8, S2, C 072417
Date Collected: 07/24/17 10:55
Date Received: 07/25/17 09:15

Lab Sample ID: 180-68509-6
Matrix: Solid
Percent Solids: 72.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	0.5 mL	218278	07/27/17 11:21	MAL	TAL PIT
Total/NA	Analysis	8270D LL		2	1 mL	1 mL	218265	07/27/17 20:52	VVP	TAL PIT
	Instrument ID: CH732									
Total/NA	Prep	3541			15.3 g	20.0 mL	218112	07/26/17 08:33	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	218177	07/26/17 13:57	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	218178	07/26/17 13:58	JMO	TAL PIT
Total/NA	Analysis	8082A		1			218100	07/27/17 01:09	JMO	TAL PIT
	Instrument ID: CHGC16									
Total/NA	Prep	3050B			1.00 g	100 mL	218293	07/27/17 12:44	CRM	TAL PIT
Total/NA	Analysis	6010C		1			218421	07/28/17 08:50	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.60 g	100 mL	218097	07/26/17 05:04	RJR	TAL PIT
Total/NA	Analysis	7471B		1			218142	07/26/17 09:22	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.01 g	50 mL	218282	07/27/17 11:19	JAS	TAL PIT
Total/NA	Analysis	9014		1			218335	07/27/17 14:50	JAS	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: WB 7-8, S3, A 072417
Date Collected: 07/24/17 11:10
Date Received: 07/25/17 09:15

Lab Sample ID: 180-68509-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218069	07/25/17 15:39	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68509-1

Client Sample ID: WB 7-8, S3, A 072417
Date Collected: 07/24/17 11:10
Date Received: 07/25/17 09:15

Lab Sample ID: 180-68509-7
Matrix: Solid
Percent Solids: 78.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.0199 g	5 mL	218236	07/27/17 05:30	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	218225	07/27/17 12:49	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: WB 7-8, S3, B 072417
Date Collected: 07/24/17 11:20
Date Received: 07/25/17 09:15

Lab Sample ID: 180-68509-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218069	07/25/17 15:39	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: WB 7-8, S3, B 072417
Date Collected: 07/24/17 11:20
Date Received: 07/25/17 09:15

Lab Sample ID: 180-68509-8
Matrix: Solid
Percent Solids: 83.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.7011 g	5 mL	218236	07/27/17 05:30	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	218225	07/27/17 13:11	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: WB 7-8, S3, C 072417
Date Collected: 07/24/17 11:30
Date Received: 07/25/17 09:15

Lab Sample ID: 180-68509-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218069	07/25/17 15:39	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: WB 7-8, S3, C 072417
Date Collected: 07/24/17 11:30
Date Received: 07/25/17 09:15

Lab Sample ID: 180-68509-9
Matrix: Solid
Percent Solids: 77.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	0.5 mL	218278	07/27/17 11:21	MAL	TAL PIT
Total/NA	Analysis	8270D LL		1	1 mL	1 mL	218265	07/27/17 21:19	VVP	TAL PIT
	Instrument ID: CH732									
Total/NA	Prep	3541			15.0 g	20.0 mL	218112	07/26/17 08:33	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	218177	07/26/17 13:57	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	218178	07/26/17 13:58	JMO	TAL PIT
Total/NA	Analysis	8082A		1			218100	07/27/17 01:30	JMO	TAL PIT
	Instrument ID: CHGC16									
Total/NA	Prep	3050B			0.91 g	100 mL	218293	07/27/17 12:44	CRM	TAL PIT

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68509-1

Client Sample ID: WB 7-8, S3, C 072417
Lab Sample ID: 180-68509-9
Date Collected: 07/24/17 11:30
Matrix: Solid
Date Received: 07/25/17 09:15
Percent Solids: 77.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	6010C		1			218421	07/28/17 08:55	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.66 g	100 mL	218097	07/26/17 05:04	RJR	TAL PIT
Total/NA	Analysis	7471B		1			218142	07/26/17 09:24	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.00 g	50 mL	218282	07/27/17 11:19	JAS	TAL PIT
Total/NA	Analysis	9014		1			218335	07/27/17 14:52	JAS	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: WB 7-8, S4, A 072417
Lab Sample ID: 180-68509-10
Date Collected: 07/24/17 12:05
Matrix: Solid
Date Received: 07/25/17 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218069	07/25/17 15:39	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: WB 7-8, S4, A 072417
Lab Sample ID: 180-68509-10
Date Collected: 07/24/17 12:05
Matrix: Solid
Date Received: 07/25/17 09:15
Percent Solids: 71.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.4255 g	5 mL	218236	07/27/17 05:30	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	218225	07/27/17 13:34	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: WB 7-8, S4, B 072417
Lab Sample ID: 180-68509-11
Date Collected: 07/24/17 12:10
Matrix: Solid
Date Received: 07/25/17 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218069	07/25/17 15:39	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: WB 7-8, S4, B 072417
Lab Sample ID: 180-68509-11
Date Collected: 07/24/17 12:10
Matrix: Solid
Date Received: 07/25/17 09:15
Percent Solids: 62.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.5162 g	5 mL	218236	07/27/17 05:30	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	218225	07/27/17 13:57	KLG	TAL PIT
	Instrument ID: CHHP3									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68509-1

Client Sample ID: WB 7-8, S4, C 072417
Lab Sample ID: 180-68509-12
Date Collected: 07/24/17 12:15
Matrix: Solid
Date Received: 07/25/17 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218069	07/25/17 15:39	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: WB 7-8, S4, C 072417
Lab Sample ID: 180-68509-12
Date Collected: 07/24/17 12:15
Matrix: Solid
Date Received: 07/25/17 09:15
Percent Solids: 71.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	0.5 mL	218278	07/27/17 11:21	MAL	TAL PIT
Total/NA	Analysis	8270D LL		1	1 mL	1 mL	218265	07/27/17 21:46	VVP	TAL PIT
	Instrument ID: CH732									
Total/NA	Prep	3541			15.2 g	20.0 mL	218112	07/26/17 08:33	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	218177	07/26/17 13:57	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	218178	07/26/17 13:58	JMO	TAL PIT
Total/NA	Analysis	8082A		1			218100	07/27/17 01:50	JMO	TAL PIT
	Instrument ID: CHGC16									
Total/NA	Prep	3050B			1.05 g	100 mL	218293	07/27/17 12:44	CRM	TAL PIT
Total/NA	Analysis	6010C		1			218421	07/28/17 09:00	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.63 g	100 mL	218097	07/26/17 05:04	RJR	TAL PIT
Total/NA	Analysis	7471B		1			218142	07/26/17 09:28	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.01 g	50 mL	218282	07/27/17 11:19	JAS	TAL PIT
Total/NA	Analysis	9014		1			218335	07/27/17 14:54	JAS	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: W9, S1, A 072417
Lab Sample ID: 180-68509-13
Date Collected: 07/24/17 13:10
Matrix: Solid
Date Received: 07/25/17 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218069	07/25/17 15:39	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W9, S1, A 072417
Lab Sample ID: 180-68509-13
Date Collected: 07/24/17 13:10
Matrix: Solid
Date Received: 07/25/17 09:15
Percent Solids: 94.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.0889 g	5 mL	218236	07/27/17 05:30	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	218225	07/27/17 14:20	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W9, S1, B 072417

Lab Sample ID: 180-68509-14
Date Collected: 07/24/17 13:15
Matrix: Solid
Date Received: 07/25/17 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218069	07/25/17 15:39	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W9, S1, B 072417

Lab Sample ID: 180-68509-14
Date Collected: 07/24/17 13:15
Matrix: Solid
Date Received: 07/25/17 09:15
Percent Solids: 94.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.8203 g	5 mL	218236	07/27/17 05:30	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	218225	07/27/17 14:42	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W9, S1, C 072417

Lab Sample ID: 180-68509-15
Date Collected: 07/24/17 13:20
Matrix: Solid
Date Received: 07/25/17 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218069	07/25/17 15:39	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W9, S1, C 072417

Lab Sample ID: 180-68509-15
Date Collected: 07/24/17 13:20
Matrix: Solid
Date Received: 07/25/17 09:15
Percent Solids: 92.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	0.5 mL	218278	07/27/17 11:21	MAL	TAL PIT
Total/NA	Analysis	8270D LL		3	1 mL	1 mL	218265	07/27/17 22:13	VVP	TAL PIT
	Instrument ID: CH732									
Total/NA	Prep	3541			15.1 g	20.0 mL	218112	07/26/17 08:33	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	218177	07/26/17 13:57	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	218178	07/26/17 13:58	JMO	TAL PIT
Total/NA	Analysis	8082A		1			218100	07/27/17 02:11	JMO	TAL PIT
	Instrument ID: CHGC16									
Total/NA	Prep	3050B			0.96 g	100 mL	218293	07/27/17 12:44	CRM	TAL PIT
Total/NA	Analysis	6010C		1			218421	07/28/17 09:05	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.63 g	100 mL	218097	07/26/17 05:04	RJR	TAL PIT
Total/NA	Analysis	7471B		1			218142	07/26/17 09:26	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.02 g	50 mL	218282	07/27/17 11:19	JAS	TAL PIT
Total/NA	Analysis	9014		1			218335	07/27/17 14:56	JAS	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: TRIP BLANK
Date Collected: 07/24/17 00:00
Date Received: 07/25/17 09:15

Lab Sample ID: 180-68509-22
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	218093	07/26/17 10:33	FBB	TAL PIT
	Instrument ID: CHHP6									

Client Sample ID: DUP 15
Date Collected: 07/24/17 00:00
Date Received: 07/25/17 09:15

Lab Sample ID: 180-68509-23
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218069	07/25/17 15:39	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: DUP 15
Date Collected: 07/24/17 00:00
Date Received: 07/25/17 09:15

Lab Sample ID: 180-68509-23
Matrix: Solid
Percent Solids: 94.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.7378 g	5 mL	218236	07/27/17 05:30	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	218225	07/27/17 15:05	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: DUP 14
Date Collected: 07/24/17 00:00
Date Received: 07/25/17 09:15

Lab Sample ID: 180-68509-24
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218069	07/25/17 15:39	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: DUP 14
Date Collected: 07/24/17 00:00
Date Received: 07/25/17 09:15

Lab Sample ID: 180-68509-24
Matrix: Solid
Percent Solids: 68.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	0.5 mL	218278	07/27/17 11:21	MAL	TAL PIT
Total/NA	Analysis	8270D LL		2	1 mL	1 mL	218265	07/27/17 22:40	VVP	TAL PIT
	Instrument ID: CH732									
Total/NA	Prep	3541			15.2 g	20.0 mL	218112	07/26/17 08:33	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	218177	07/26/17 13:57	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	218178	07/26/17 13:58	JMO	TAL PIT
Total/NA	Analysis	8082A		1			218100	07/27/17 03:36	JMO	TAL PIT
	Instrument ID: CHGC16									
Total/NA	Prep	3050B			0.94 g	100 mL	218293	07/27/17 12:44	CRM	TAL PIT

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68509-1

Client Sample ID: DUP 14
Date Collected: 07/24/17 00:00
Date Received: 07/25/17 09:15

Lab Sample ID: 180-68509-24
Matrix: Solid
Percent Solids: 68.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	6010C		1			218421	07/28/17 09:11	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.63 g	100 mL	218097	07/26/17 05:04	RJR	TAL PIT
Total/NA	Analysis	7471B		1			218142	07/26/17 09:30	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.01 g	50 mL	218282	07/27/17 11:19	JAS	TAL PIT
Total/NA	Analysis	9014		1			218335	07/27/17 14:57	JAS	TAL PIT
	Instrument ID: SEAL2									

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Analyst References:

Lab: TAL PIT

Batch Type: Cleanup

JMO = John Oravec

Batch Type: Prep

BAP = Brian Pino

CRM = Caitlin McEvoy

JAS = Joshua Schmidt

KLG = Kathy Gordon

MAL = Michael Lonzo

RJR = Ron Rosenbaum

Batch Type: Analysis

FBB = Frank Bungard

JAS = Joshua Schmidt

JMO = John Oravec

JTL = Justin Landry

KLG = Kathy Gordon

RJG = Rob Good

RJR = Ron Rosenbaum

VVP = Vincent Piccolino

Client Sample ID: WB 7-8, S1, A 072417

Lab Sample ID: 180-68509-1
Date Collected: 07/24/17 10:05
Matrix: Solid
Date Received: 07/25/17 09:15
Percent Solids: 78.4

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.022	0.0035	mg/Kg	☼	07/26/17 05:40	07/26/17 16:12	1
Benzene	ND		0.0055	0.0022	mg/Kg	☼	07/26/17 05:40	07/26/17 16:12	1
2-Butanone (MEK)	ND		0.0055	0.0032	mg/Kg	☼	07/26/17 05:40	07/26/17 16:12	1
Carbon tetrachloride	ND		0.0055	0.0037	mg/Kg	☼	07/26/17 05:40	07/26/17 16:12	1
Chlorobenzene	ND		0.0055	0.0017	mg/Kg	☼	07/26/17 05:40	07/26/17 16:12	1
Chloroform	ND		0.0055	0.0023	mg/Kg	☼	07/26/17 05:40	07/26/17 16:12	1
cis-1,2-Dichloroethene	ND		0.0055	0.0017	mg/Kg	☼	07/26/17 05:40	07/26/17 16:12	1
1,2-Dichlorobenzene	ND		0.0055	0.0044	mg/Kg	☼	07/26/17 05:40	07/26/17 16:12	1
1,3-Dichlorobenzene	ND		0.0055	0.0018	mg/Kg	☼	07/26/17 05:40	07/26/17 16:12	1
1,4-Dichlorobenzene	ND		0.0055	0.0011	mg/Kg	☼	07/26/17 05:40	07/26/17 16:12	1
1,1-Dichloroethane	ND		0.0055	0.0020	mg/Kg	☼	07/26/17 05:40	07/26/17 16:12	1
1,2-Dichloroethane	ND		0.0055	0.0016	mg/Kg	☼	07/26/17 05:40	07/26/17 16:12	1
1,1-Dichloroethene	ND		0.0055	0.0032	mg/Kg	☼	07/26/17 05:40	07/26/17 16:12	1
Ethylbenzene	ND		0.0055	0.0024	mg/Kg	☼	07/26/17 05:40	07/26/17 16:12	1
Methylene Chloride	ND		0.0055	0.0026	mg/Kg	☼	07/26/17 05:40	07/26/17 16:12	1
Methyl tert-butyl ether	ND		0.0055	0.0041	mg/Kg	☼	07/26/17 05:40	07/26/17 16:12	1
n-Butylbenzene	ND		0.0055	0.0042	mg/Kg	☼	07/26/17 05:40	07/26/17 16:12	1
N-Propylbenzene	ND		0.0055	0.0023	mg/Kg	☼	07/26/17 05:40	07/26/17 16:12	1
sec-Butylbenzene	ND		0.0055	0.0027	mg/Kg	☼	07/26/17 05:40	07/26/17 16:12	1
tert-Butylbenzene	ND		0.0055	0.0020	mg/Kg	☼	07/26/17 05:40	07/26/17 16:12	1
Tetrachloroethene	ND		0.0055	0.0022	mg/Kg	☼	07/26/17 05:40	07/26/17 16:12	1
Toluene	ND		0.0055	0.0019	mg/Kg	☼	07/26/17 05:40	07/26/17 16:12	1
trans-1,2-Dichloroethene	ND		0.0055	0.0028	mg/Kg	☼	07/26/17 05:40	07/26/17 16:12	1
1,1,1-Trichloroethane	ND		0.0055	0.0028	mg/Kg	☼	07/26/17 05:40	07/26/17 16:12	1
Trichloroethene	ND		0.0055	0.0017	mg/Kg	☼	07/26/17 05:40	07/26/17 16:12	1
1,2,4-Trimethylbenzene	ND		0.0055	0.0015	mg/Kg	☼	07/26/17 05:40	07/26/17 16:12	1
1,3,5-Trimethylbenzene	ND		0.0055	0.0019	mg/Kg	☼	07/26/17 05:40	07/26/17 16:12	1
Vinyl chloride	ND		0.0055	0.0041	mg/Kg	☼	07/26/17 05:40	07/26/17 16:12	1
Xylenes, Total	ND		0.011	0.0048	mg/Kg	☼	07/26/17 05:40	07/26/17 16:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*63 - 120*	*07/26/17 05:40*	*07/26/17 16:12*	*1*
Dibromofluoromethane (Surr)	*101*		*68 - 121*	*07/26/17 05:40*	*07/26/17 16:12*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*52 - 124*	*07/26/17 05:40*	*07/26/17 16:12*	*1*
Toluene-d8 (Surr)	*108*		*72 - 127*	*07/26/17 05:40*	*07/26/17 16:12*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**21.6**		0.1	0.1	%			07/25/17 15:39	1
Percent Solids	**78.4**		0.1	0.1	%			07/25/17 15:39	1

Client Sample ID: WB 7-8, S1, B 072417

Lab Sample ID: 180-68509-2
Date Collected: 07/24/17 10:10
Matrix: Solid
Date Received: 07/25/17 09:15
Percent Solids: 70.7

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.022	0.0034	mg/Kg	☼	07/26/17 05:40	07/26/17 16:35	1
Benzene	ND		0.0055	0.0021	mg/Kg	☼	07/26/17 05:40	07/26/17 16:35	1
2-Butanone (MEK)	ND		0.0055	0.0032	mg/Kg	☼	07/26/17 05:40	07/26/17 16:35	1

Client Sample ID: WB 7-8, S1, B 072417 — Lab Sample ID: 180-68509-2

Date Collected: 07/24/17 10:10 — Matrix: Solid
Date Received: 07/25/17 09:15 — Percent Solids: 70.7

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	ND		0.0055	0.0036	mg/Kg	☼	07/26/17 05:40	07/26/17 16:35	1
Chlorobenzene	ND		0.0055	0.0017	mg/Kg	☼	07/26/17 05:40	07/26/17 16:35	1
Chloroform	ND		0.0055	0.0023	mg/Kg	☼	07/26/17 05:40	07/26/17 16:35	1
cis-1,2-Dichloroethene	ND		0.0055	0.0017	mg/Kg	☼	07/26/17 05:40	07/26/17 16:35	1
1,2-Dichlorobenzene	ND		0.0055	0.0044	mg/Kg	☼	07/26/17 05:40	07/26/17 16:35	1
1,3-Dichlorobenzene	ND		0.0055	0.0017	mg/Kg	☼	07/26/17 05:40	07/26/17 16:35	1
1,4-Dichlorobenzene	ND		0.0055	0.0011	mg/Kg	☼	07/26/17 05:40	07/26/17 16:35	1
1,1-Dichloroethane	ND		0.0055	0.0020	mg/Kg	☼	07/26/17 05:40	07/26/17 16:35	1
1,2-Dichloroethane	ND		0.0055	0.0016	mg/Kg	☼	07/26/17 05:40	07/26/17 16:35	1
1,1-Dichloroethene	ND		0.0055	0.0031	mg/Kg	☼	07/26/17 05:40	07/26/17 16:35	1
Ethylbenzene	ND		0.0055	0.0024	mg/Kg	☼	07/26/17 05:40	07/26/17 16:35	1
Methylene Chloride	ND		0.0055	0.0026	mg/Kg	☼	07/26/17 05:40	07/26/17 16:35	1
Methyl tert-butyl ether	ND		0.0055	0.0040	mg/Kg	☼	07/26/17 05:40	07/26/17 16:35	1
n-Butylbenzene	ND		0.0055	0.0041	mg/Kg	☼	07/26/17 05:40	07/26/17 16:35	1
N-Propylbenzene	ND		0.0055	0.0023	mg/Kg	☼	07/26/17 05:40	07/26/17 16:35	1
sec-Butylbenzene	ND		0.0055	0.0027	mg/Kg	☼	07/26/17 05:40	07/26/17 16:35	1
tert-Butylbenzene	ND		0.0055	0.0020	mg/Kg	☼	07/26/17 05:40	07/26/17 16:35	1
Tetrachloroethene	ND		0.0055	0.0022	mg/Kg	☼	07/26/17 05:40	07/26/17 16:35	1
Toluene	ND		0.0055	0.0018	mg/Kg	☼	07/26/17 05:40	07/26/17 16:35	1
trans-1,2-Dichloroethene	ND		0.0055	0.0028	mg/Kg	☼	07/26/17 05:40	07/26/17 16:35	1
1,1,1-Trichloroethane	ND		0.0055	0.0027	mg/Kg	☼	07/26/17 05:40	07/26/17 16:35	1
Trichloroethene	ND		0.0055	0.0016	mg/Kg	☼	07/26/17 05:40	07/26/17 16:35	1
1,2,4-Trimethylbenzene	ND		0.0055	0.0015	mg/Kg	☼	07/26/17 05:40	07/26/17 16:35	1
1,3,5-Trimethylbenzene	ND		0.0055	0.0019	mg/Kg	☼	07/26/17 05:40	07/26/17 16:35	1
Vinyl chloride	ND		0.0055	0.0040	mg/Kg	☼	07/26/17 05:40	07/26/17 16:35	1
Xylenes, Total	ND		0.011	0.0047	mg/Kg	☼	07/26/17 05:40	07/26/17 16:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*63 - 120*	*07/26/17 05:40*	*07/26/17 16:35*	*1*
Dibromofluoromethane (Surr)	*101*		*68 - 121*	*07/26/17 05:40*	*07/26/17 16:35*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*52 - 124*	*07/26/17 05:40*	*07/26/17 16:35*	*1*
Toluene-d8 (Surr)	*109*		*72 - 127*	*07/26/17 05:40*	*07/26/17 16:35*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**29.3**		0.1	0.1	%			07/25/17 15:39	1
Percent Solids	**70.7**		0.1	0.1	%			07/25/17 15:39	1

Client Sample ID: WB 7-8, S1, C 072417 — Lab Sample ID: 180-68509-3

Date Collected: 07/24/17 10:20 — Matrix: Solid
Date Received: 07/25/17 09:15 — Percent Solids: 73.3

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.012**		0.0091	0.0031	mg/Kg	☼	07/27/17 11:21	07/27/17 20:25	1
Acenaphthylene	**0.029**		0.0091	0.0031	mg/Kg	☼	07/27/17 11:21	07/27/17 20:25	1
Anthracene	**0.045**		0.0091	0.0034	mg/Kg	☼	07/27/17 11:21	07/27/17 20:25	1
Benzo[a]anthracene	**0.14**		0.0091	0.0036	mg/Kg	☼	07/27/17 11:21	07/27/17 20:25	1
Benzo[a]pyrene	**0.15**		0.0091	0.0038	mg/Kg	☼	07/27/17 11:21	07/27/17 20:25	1
Benzo[b]fluoranthene	**0.19**		0.0091	0.0039	mg/Kg	☼	07/27/17 11:21	07/27/17 20:25	1

Client Sample ID: WB 7-8, S1, C 072417 **Lab Sample ID: 180-68509-3**
Date Collected: 07/24/17 10:20 **Matrix: Solid**
Date Received: 07/25/17 09:15 **Percent Solids: 73.3**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	**0.16**		0.0091	0.0039	mg/Kg	☼	07/27/17 11:21	07/27/17 20:25	1
Benzo[k]fluoranthene	**0.080**		0.0091	0.0031	mg/Kg	☼	07/27/17 11:21	07/27/17 20:25	1
Chrysene	**0.16**		0.0091	0.0036	mg/Kg	☼	07/27/17 11:21	07/27/17 20:25	1
Dibenz(a,h)anthracene	**0.035**		0.0091	0.0038	mg/Kg	☼	07/27/17 11:21	07/27/17 20:25	1
Dibenzofuran	**0.0091**	**J**	0.045	0.0036	mg/Kg	☼	07/27/17 11:21	07/27/17 20:25	1
1,4-Dioxane	ND		0.091	0.0069	mg/Kg	☼	07/27/17 11:21	07/27/17 20:25	1
Fluoranthene	**0.29**		0.0091	0.0036	mg/Kg	☼	07/27/17 11:21	07/27/17 20:25	1
Fluorene	**0.014**		0.0091	0.0032	mg/Kg	☼	07/27/17 11:21	07/27/17 20:25	1
Hexachlorobenzene	ND		0.0091	0.0037	mg/Kg	☼	07/27/17 11:21	07/27/17 20:25	1
Indeno[1,2,3-cd]pyrene	**0.14**		0.0091	0.0035	mg/Kg	☼	07/27/17 11:21	07/27/17 20:25	1
2-Methylphenol	ND		0.045	0.0040	mg/Kg	☼	07/27/17 11:21	07/27/17 20:25	1
Methylphenol, 3 & 4	**0.0082**	**J**	0.045	0.0040	mg/Kg	☼	07/27/17 11:21	07/27/17 20:25	1
Naphthalene	**0.011**		0.0091	0.0033	mg/Kg	☼	07/27/17 11:21	07/27/17 20:25	1
Pentachlorophenol	ND		0.23	0.086	mg/Kg	☼	07/27/17 11:21	07/27/17 20:25	1
Phenanthrene	**0.12**		0.0091	0.0038	mg/Kg	☼	07/27/17 11:21	07/27/17 20:25	1
Phenol	ND		0.045	0.0061	mg/Kg	☼	07/27/17 11:21	07/27/17 20:25	1
Pyrene	**0.21**		0.0091	0.0041	mg/Kg	☼	07/27/17 11:21	07/27/17 20:25	1
Hexachloroethane	ND		45	3.3	ug/Kg	☼	07/27/17 11:21	07/27/17 20:25	1
Nitrobenzene	ND		91	3.5	ug/Kg	☼	07/27/17 11:21	07/27/17 20:25	1
Hexachlorobutadiene	ND		9.1	2.9	ug/Kg	☼	07/27/17 11:21	07/27/17 20:25	1
2,4,5-Trichlorophenol	ND		45	4.3	ug/Kg	☼	07/27/17 11:21	07/27/17 20:25	1
2,4,6-Trichlorophenol	ND		45	4.0	ug/Kg	☼	07/27/17 11:21	07/27/17 20:25	1
2,4-Dinitrotoluene	ND		45	6.0	ug/Kg	☼	07/27/17 11:21	07/27/17 20:25	1
Pyridine	ND		45	4.4	ug/Kg	☼	07/27/17 11:21	07/27/17 20:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*55*		*42 - 100*	*07/27/17 11:21*	*07/27/17 20:25*	*1*
2-Fluorophenol (Surr)	*51*		*21 - 107*	*07/27/17 11:21*	*07/27/17 20:25*	*1*
Nitrobenzene-d5 (Surr)	*48*		*35 - 109*	*07/27/17 11:21*	*07/27/17 20:25*	*1*
Phenol-d5 (Surr)	*49*		*29 - 105*	*07/27/17 11:21*	*07/27/17 20:25*	*1*
Terphenyl-d14 (Surr)	*49*		*36 - 113*	*07/27/17 11:21*	*07/27/17 20:25*	*1*
2,4,6-Tribromophenol (Surr)	*70*		*20 - 134*	*07/27/17 11:21*	*07/27/17 20:25*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.023	0.012	mg/Kg	☼	07/26/17 08:33	07/27/17 00:48	1
PCB-1221	ND		0.023	0.012	mg/Kg	☼	07/26/17 08:33	07/27/17 00:48	1
PCB-1232	ND		0.023	0.0089	mg/Kg	☼	07/26/17 08:33	07/27/17 00:48	1
PCB-1242	ND		0.023	0.018	mg/Kg	☼	07/26/17 08:33	07/27/17 00:48	1
PCB-1248	**1.3**		0.023	0.011	mg/Kg	☼	07/26/17 08:33	07/27/17 00:48	1
PCB-1254	**0.50**		0.023	0.0099	mg/Kg	☼	07/26/17 08:33	07/27/17 00:48	1
PCB-1260	**0.054**		0.023	0.015	mg/Kg	☼	07/26/17 08:33	07/27/17 00:48	1
PCB-1262	ND		0.023	0.016	mg/Kg	☼	07/26/17 08:33	07/27/17 00:48	1
PCB-1268	ND		0.023	0.0069	mg/Kg	☼	07/26/17 08:33	07/27/17 00:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*65*		*23 - 150*	*07/26/17 08:33*	*07/27/17 00:48*	*1*
DCB Decachlorobiphenyl (Surr)	*65*		*23 - 150*	*07/26/17 08:33*	*07/27/17 00:48*	*1*
Tetrachloro-m-xylene (Surr)	*69*		*27 - 138*	*07/26/17 08:33*	*07/27/17 00:48*	*1*
Tetrachloro-m-xylene (Surr)	*69*		*27 - 138*	*07/26/17 08:33*	*07/27/17 00:48*	*1*

Client Sample ID: WB 7-8, S1, C 072417

Lab Sample ID: 180-68509-3
Date Collected: 07/24/17 10:20
Matrix: Solid
Date Received: 07/25/17 09:15
Percent Solids: 73.3

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.6		1.4	0.61	mg/Kg	☼	07/27/17 12:44	07/28/17 08:45	1
Barium	90		28	7.5	mg/Kg	☼	07/27/17 12:44	07/28/17 08:45	1
Beryllium	0.31	J	0.56	0.15	mg/Kg	☼	07/27/17 12:44	07/28/17 08:45	1
Cadmium	0.23	J	0.70	0.16	mg/Kg	☼	07/27/17 12:44	07/28/17 08:45	1
Chromium	9.2		0.70	0.18	mg/Kg	☼	07/27/17 12:44	07/28/17 08:45	1
Copper	29		3.5	1.1	mg/Kg	☼	07/27/17 12:44	07/28/17 08:45	1
Lead	39		1.4	0.46	mg/Kg	☼	07/27/17 12:44	07/28/17 08:45	1
Manganese	380		2.1	0.56	mg/Kg	☼	07/27/17 12:44	07/28/17 08:45	1
Nickel	19		5.6	1.3	mg/Kg	☼	07/27/17 12:44	07/28/17 08:45	1
Selenium	ND		1.4	0.55	mg/Kg	☼	07/27/17 12:44	07/28/17 08:45	1
Silver	ND		0.70	0.23	mg/Kg	☼	07/27/17 12:44	07/28/17 08:45	1
Zinc	63		2.8	1.4	mg/Kg	☼	07/27/17 12:44	07/28/17 08:45	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.044	J	0.045	0.010	mg/Kg	☼	07/26/17 05:04	07/26/17 09:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	26.7		0.1	0.1	%			07/25/17 15:39	1
Percent Solids	73.3		0.1	0.1	%			07/25/17 15:39	1
Cyanide, Total	0.34	J	0.68	0.21	mg/Kg	☼	07/27/17 11:19	07/27/17 14:49	1

Client Sample ID: WB 7-8, S2, A 072417

Lab Sample ID: 180-68509-4
Date Collected: 07/24/17 10:45
Matrix: Solid
Date Received: 07/25/17 09:15
Percent Solids: 79.2

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.026	0.0041	mg/Kg	☼	07/26/17 05:40	07/26/17 16:58	1
Benzene	ND		0.0065	0.0025	mg/Kg	☼	07/26/17 05:40	07/26/17 16:58	1
2-Butanone (MEK)	ND		0.0065	0.0037	mg/Kg	☼	07/26/17 05:40	07/26/17 16:58	1
Carbon tetrachloride	ND		0.0065	0.0043	mg/Kg	☼	07/26/17 05:40	07/26/17 16:58	1
Chlorobenzene	ND		0.0065	0.0020	mg/Kg	☼	07/26/17 05:40	07/26/17 16:58	1
Chloroform	ND		0.0065	0.0027	mg/Kg	☼	07/26/17 05:40	07/26/17 16:58	1
cis-1,2-Dichloroethene	ND		0.0065	0.0020	mg/Kg	☼	07/26/17 05:40	07/26/17 16:58	1
1,2-Dichlorobenzene	ND		0.0065	0.0052	mg/Kg	☼	07/26/17 05:40	07/26/17 16:58	1
1,3-Dichlorobenzene	ND		0.0065	0.0021	mg/Kg	☼	07/26/17 05:40	07/26/17 16:58	1
1,4-Dichlorobenzene	ND		0.0065	0.0013	mg/Kg	☼	07/26/17 05:40	07/26/17 16:58	1
1,1-Dichloroethane	ND		0.0065	0.0023	mg/Kg	☼	07/26/17 05:40	07/26/17 16:58	1
1,2-Dichloroethane	ND		0.0065	0.0019	mg/Kg	☼	07/26/17 05:40	07/26/17 16:58	1
1,1-Dichloroethene	ND		0.0065	0.0037	mg/Kg	☼	07/26/17 05:40	07/26/17 16:58	1
Ethylbenzene	0.0040	J	0.0065	0.0028	mg/Kg	☼	07/26/17 05:40	07/26/17 16:58	1
Methylene Chloride	ND		0.0065	0.0030	mg/Kg	☼	07/26/17 05:40	07/26/17 16:58	1
Methyl tert-butyl ether	ND		0.0065	0.0048	mg/Kg	☼	07/26/17 05:40	07/26/17 16:58	1
n-Butylbenzene	ND		0.0065	0.0049	mg/Kg	☼	07/26/17 05:40	07/26/17 16:58	1
N-Propylbenzene	ND		0.0065	0.0027	mg/Kg	☼	07/26/17 05:40	07/26/17 16:58	1
sec-Butylbenzene	ND		0.0065	0.0031	mg/Kg	☼	07/26/17 05:40	07/26/17 16:58	1
tert-Butylbenzene	ND		0.0065	0.0024	mg/Kg	☼	07/26/17 05:40	07/26/17 16:58	1
Tetrachloroethene	ND		0.0065	0.0026	mg/Kg	☼	07/26/17 05:40	07/26/17 16:58	1

Client Sample ID: WB 7-8, S2, A 072417

Lab Sample ID: 180-68509-4
Date Collected: 07/24/17 10:45
Matrix: Solid
Date Received: 07/25/17 09:15
Percent Solids: 79.2

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		0.0065	0.0022	mg/Kg	☼	07/26/17 05:40	07/26/17 16:58	1
trans-1,2-Dichloroethene	ND		0.0065	0.0033	mg/Kg	☼	07/26/17 05:40	07/26/17 16:58	1
1,1,1-Trichloroethane	ND		0.0065	0.0032	mg/Kg	☼	07/26/17 05:40	07/26/17 16:58	1
Trichloroethene	ND		0.0065	0.0019	mg/Kg	☼	07/26/17 05:40	07/26/17 16:58	1
1,2,4-Trimethylbenzene	ND		0.0065	0.0017	mg/Kg	☼	07/26/17 05:40	07/26/17 16:58	1
1,3,5-Trimethylbenzene	ND		0.0065	0.0022	mg/Kg	☼	07/26/17 05:40	07/26/17 16:58	1
Vinyl chloride	ND		0.0065	0.0047	mg/Kg	☼	07/26/17 05:40	07/26/17 16:58	1
Xylenes, Total	**0.026**		0.013	0.0056	mg/Kg	☼	07/26/17 05:40	07/26/17 16:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*63 - 120*	*07/26/17 05:40*	*07/26/17 16:58*	*1*
Dibromofluoromethane (Surr)	*103*		*68 - 121*	*07/26/17 05:40*	*07/26/17 16:58*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*52 - 124*	*07/26/17 05:40*	*07/26/17 16:58*	*1*
Toluene-d8 (Surr)	*113*		*72 - 127*	*07/26/17 05:40*	*07/26/17 16:58*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**20.8**		0.1	0.1	%			07/25/17 15:39	1
Percent Solids	**79.2**		0.1	0.1	%			07/25/17 15:39	1

Client Sample ID: WB 7-8, S2, B 072417

Lab Sample ID: 180-68509-5
Date Collected: 07/24/17 10:50
Matrix: Solid
Date Received: 07/25/17 09:15
Percent Solids: 74.2

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.024	0.0037	mg/Kg	☼	07/27/17 05:30	07/27/17 12:26	1
Benzene	ND		0.0059	0.0023	mg/Kg	☼	07/27/17 05:30	07/27/17 12:26	1
2-Butanone (MEK)	ND		0.0059	0.0034	mg/Kg	☼	07/27/17 05:30	07/27/17 12:26	1
Carbon tetrachloride	ND		0.0059	0.0039	mg/Kg	☼	07/27/17 05:30	07/27/17 12:26	1
Chlorobenzene	ND		0.0059	0.0019	mg/Kg	☼	07/27/17 05:30	07/27/17 12:26	1
Chloroform	ND		0.0059	0.0025	mg/Kg	☼	07/27/17 05:30	07/27/17 12:26	1
cis-1,2-Dichloroethene	ND		0.0059	0.0019	mg/Kg	☼	07/27/17 05:30	07/27/17 12:26	1
1,2-Dichlorobenzene	ND		0.0059	0.0048	mg/Kg	☼	07/27/17 05:30	07/27/17 12:26	1
1,3-Dichlorobenzene	ND		0.0059	0.0019	mg/Kg	☼	07/27/17 05:30	07/27/17 12:26	1
1,4-Dichlorobenzene	ND		0.0059	0.0012	mg/Kg	☼	07/27/17 05:30	07/27/17 12:26	1
1,1-Dichloroethane	ND		0.0059	0.0021	mg/Kg	☼	07/27/17 05:30	07/27/17 12:26	1
1,2-Dichloroethane	ND		0.0059	0.0017	mg/Kg	☼	07/27/17 05:30	07/27/17 12:26	1
1,1-Dichloroethene	ND		0.0059	0.0034	mg/Kg	☼	07/27/17 05:30	07/27/17 12:26	1
Ethylbenzene	ND		0.0059	0.0026	mg/Kg	☼	07/27/17 05:30	07/27/17 12:26	1
Methylene Chloride	ND		0.0059	0.0028	mg/Kg	☼	07/27/17 05:30	07/27/17 12:26	1
Methyl tert-butyl ether	ND		0.0059	0.0044	mg/Kg	☼	07/27/17 05:30	07/27/17 12:26	1
n-Butylbenzene	ND		0.0059	0.0045	mg/Kg	☼	07/27/17 05:30	07/27/17 12:26	1
N-Propylbenzene	ND		0.0059	0.0025	mg/Kg	☼	07/27/17 05:30	07/27/17 12:26	1
sec-Butylbenzene	ND		0.0059	0.0029	mg/Kg	☼	07/27/17 05:30	07/27/17 12:26	1
tert-Butylbenzene	ND		0.0059	0.0022	mg/Kg	☼	07/27/17 05:30	07/27/17 12:26	1
Tetrachloroethene	ND		0.0059	0.0024	mg/Kg	☼	07/27/17 05:30	07/27/17 12:26	1
Toluene	ND		0.0059	0.0020	mg/Kg	☼	07/27/17 05:30	07/27/17 12:26	1
trans-1,2-Dichloroethene	ND		0.0059	0.0030	mg/Kg	☼	07/27/17 05:30	07/27/17 12:26	1
1,1,1-Trichloroethane	ND		0.0059	0.0030	mg/Kg	☼	07/27/17 05:30	07/27/17 12:26	1

Client Sample ID: WB 7-8, S2, B 072417 — Lab Sample ID: 180-68509-5

Date Collected: 07/24/17 10:50 — **Matrix: Solid**
Date Received: 07/25/17 09:15 — **Percent Solids: 74.2**

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	ND		0.0059	0.0018	mg/Kg	☼	07/27/17 05:30	07/27/17 12:26	1
1,2,4-Trimethylbenzene	ND		0.0059	0.0016	mg/Kg	☼	07/27/17 05:30	07/27/17 12:26	1
1,3,5-Trimethylbenzene	ND		0.0059	0.0020	mg/Kg	☼	07/27/17 05:30	07/27/17 12:26	1
Vinyl chloride	ND		0.0059	0.0043	mg/Kg	☼	07/27/17 05:30	07/27/17 12:26	1
Xylenes, Total	ND		0.012	0.0051	mg/Kg	☼	07/27/17 05:30	07/27/17 12:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*63 - 120*	*07/27/17 05:30*	*07/27/17 12:26*	*1*
Dibromofluoromethane (Surr)	*99*		*68 - 121*	*07/27/17 05:30*	*07/27/17 12:26*	*1*
1,2-Dichloroethane-d4 (Surr)	*91*		*52 - 124*	*07/27/17 05:30*	*07/27/17 12:26*	*1*
Toluene-d8 (Surr)	*112*		*72 - 127*	*07/27/17 05:30*	*07/27/17 12:26*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**25.8**		0.1	0.1	%			07/25/17 15:39	1
Percent Solids	**74.2**		0.1	0.1	%			07/25/17 15:39	1

Client Sample ID: WB 7-8, S2, C 072417 — Lab Sample ID: 180-68509-6

Date Collected: 07/24/17 10:55 — **Matrix: Solid**
Date Received: 07/25/17 09:15 — **Percent Solids: 72.6**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.037**		0.018	0.0062	mg/Kg	☼	07/27/17 11:21	07/27/17 20:52	2
Acenaphthylene	**0.062**		0.018	0.0062	mg/Kg	☼	07/27/17 11:21	07/27/17 20:52	2
Anthracene	**0.10**		0.018	0.0068	mg/Kg	☼	07/27/17 11:21	07/27/17 20:52	2
Benzo[a]anthracene	**0.23**		0.018	0.0073	mg/Kg	☼	07/27/17 11:21	07/27/17 20:52	2
Benzo[a]pyrene	**0.22**		0.018	0.0076	mg/Kg	☼	07/27/17 11:21	07/27/17 20:52	2
Benzo[b]fluoranthene	**0.29**		0.018	0.0080	mg/Kg	☼	07/27/17 11:21	07/27/17 20:52	2
Benzo[g,h,i]perylene	**0.22**		0.018	0.0080	mg/Kg	☼	07/27/17 11:21	07/27/17 20:52	2
Benzo[k]fluoranthene	**0.10**		0.018	0.0063	mg/Kg	☼	07/27/17 11:21	07/27/17 20:52	2
Chrysene	**0.25**		0.018	0.0072	mg/Kg	☼	07/27/17 11:21	07/27/17 20:52	2
Dibenz(a,h)anthracene	**0.053**		0.018	0.0076	mg/Kg	☼	07/27/17 11:21	07/27/17 20:52	2
Dibenzofuran	**0.028**	**J**	0.091	0.0073	mg/Kg	☼	07/27/17 11:21	07/27/17 20:52	2
1,4-Dioxane	ND		0.18	0.014	mg/Kg	☼	07/27/17 11:21	07/27/17 20:52	2
Fluoranthene	**0.46**		0.018	0.0072	mg/Kg	☼	07/27/17 11:21	07/27/17 20:52	2
Fluorene	**0.044**		0.018	0.0065	mg/Kg	☼	07/27/17 11:21	07/27/17 20:52	2
Hexachlorobenzene	ND		0.018	0.0074	mg/Kg	☼	07/27/17 11:21	07/27/17 20:52	2
Indeno[1,2,3-cd]pyrene	**0.18**		0.018	0.0071	mg/Kg	☼	07/27/17 11:21	07/27/17 20:52	2
2-Methylphenol	ND		0.091	0.0081	mg/Kg	☼	07/27/17 11:21	07/27/17 20:52	2
Methylphenol, 3 & 4	**0.021**	**J**	0.091	0.0081	mg/Kg	☼	07/27/17 11:21	07/27/17 20:52	2
Naphthalene	**0.030**		0.018	0.0066	mg/Kg	☼	07/27/17 11:21	07/27/17 20:52	2
Pentachlorophenol	ND		0.47	0.17	mg/Kg	☼	07/27/17 11:21	07/27/17 20:52	2
Phenanthrene	**0.28**		0.018	0.0077	mg/Kg	☼	07/27/17 11:21	07/27/17 20:52	2
Phenol	ND		0.091	0.012	mg/Kg	☼	07/27/17 11:21	07/27/17 20:52	2
Pyrene	**0.33**		0.018	0.0082	mg/Kg	☼	07/27/17 11:21	07/27/17 20:52	2
Hexachloroethane	ND		91	6.6	ug/Kg	☼	07/27/17 11:21	07/27/17 20:52	2
Nitrobenzene	ND		180	7.0	ug/Kg	☼	07/27/17 11:21	07/27/17 20:52	2
Hexachlorobutadiene	ND		18	5.8	ug/Kg	☼	07/27/17 11:21	07/27/17 20:52	2
2,4,5-Trichlorophenol	ND		91	8.7	ug/Kg	☼	07/27/17 11:21	07/27/17 20:52	2

Client Sample ID: WB 7-8, S2, C 072417
Date Collected: 07/24/17 10:55
Date Received: 07/25/17 09:15

Lab Sample ID: 180-68509-6
Matrix: Solid
Percent Solids: 72.6

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,6-Trichlorophenol	ND		91	8.0	ug/Kg	☼	07/27/17 11:21	07/27/17 20:52	2
2,4-Dinitrotoluene	ND		91	12	ug/Kg	☼	07/27/17 11:21	07/27/17 20:52	2
Pyridine	ND		91	8.8	ug/Kg	☼	07/27/17 11:21	07/27/17 20:52	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*67*		*42 - 100*	*07/27/17 11:21*	*07/27/17 20:52*	*2*
2-Fluorophenol (Surr)	*56*		*21 - 107*	*07/27/17 11:21*	*07/27/17 20:52*	*2*
Nitrobenzene-d5 (Surr)	*55*		*35 - 109*	*07/27/17 11:21*	*07/27/17 20:52*	*2*
Phenol-d5 (Surr)	*59*		*29 - 105*	*07/27/17 11:21*	*07/27/17 20:52*	*2*
Terphenyl-d14 (Surr)	*63*		*36 - 113*	*07/27/17 11:21*	*07/27/17 20:52*	*2*
2,4,6-Tribromophenol (Surr)	*87*		*20 - 134*	*07/27/17 11:21*	*07/27/17 20:52*	*2*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.022	0.012	mg/Kg	☼	07/26/17 08:33	07/27/17 01:09	1
PCB-1221	ND		0.022	0.012	mg/Kg	☼	07/26/17 08:33	07/27/17 01:09	1
PCB-1232	ND		0.022	0.0089	mg/Kg	☼	07/26/17 08:33	07/27/17 01:09	1
PCB-1242	ND		0.022	0.018	mg/Kg	☼	07/26/17 08:33	07/27/17 01:09	1
PCB-1248	**0.79**		0.022	0.011	mg/Kg	☼	07/26/17 08:33	07/27/17 01:09	1
PCB-1254	**0.30**		0.022	0.0099	mg/Kg	☼	07/26/17 08:33	07/27/17 01:09	1
PCB-1260	**0.043**		0.022	0.015	mg/Kg	☼	07/26/17 08:33	07/27/17 01:09	1
PCB-1262	ND		0.022	0.016	mg/Kg	☼	07/26/17 08:33	07/27/17 01:09	1
PCB-1268	ND		0.022	0.0069	mg/Kg	☼	07/26/17 08:33	07/27/17 01:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*64*		*23 - 150*	*07/26/17 08:33*	*07/27/17 01:09*	*1*
DCB Decachlorobiphenyl (Surr)	*65*		*23 - 150*	*07/26/17 08:33*	*07/27/17 01:09*	*1*
Tetrachloro-m-xylene (Surr)	*68*		*27 - 138*	*07/26/17 08:33*	*07/27/17 01:09*	*1*
Tetrachloro-m-xylene (Surr)	*70*		*27 - 138*	*07/26/17 08:33*	*07/27/17 01:09*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**7.2**		1.4	0.61	mg/Kg	☼	07/27/17 12:44	07/28/17 08:50	1
Barium	**97**		28	7.4	mg/Kg	☼	07/27/17 12:44	07/28/17 08:50	1
Beryllium	**0.41**	**J**	0.55	0.14	mg/Kg	☼	07/27/17 12:44	07/28/17 08:50	1
Cadmium	**0.23**	**J**	0.69	0.15	mg/Kg	☼	07/27/17 12:44	07/28/17 08:50	1
Chromium	**12**		0.69	0.18	mg/Kg	☼	07/27/17 12:44	07/28/17 08:50	1
Copper	**33**		3.4	1.1	mg/Kg	☼	07/27/17 12:44	07/28/17 08:50	1
Lead	**42**		1.4	0.45	mg/Kg	☼	07/27/17 12:44	07/28/17 08:50	1
Manganese	**490**		2.1	0.56	mg/Kg	☼	07/27/17 12:44	07/28/17 08:50	1
Nickel	**26**		5.5	1.2	mg/Kg	☼	07/27/17 12:44	07/28/17 08:50	1
Selenium	ND		1.4	0.55	mg/Kg	☼	07/27/17 12:44	07/28/17 08:50	1
Silver	ND		0.69	0.23	mg/Kg	☼	07/27/17 12:44	07/28/17 08:50	1
Zinc	**74**		2.8	1.4	mg/Kg	☼	07/27/17 12:44	07/28/17 08:50	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.066**		0.045	0.010	mg/Kg	☼	07/26/17 05:04	07/26/17 09:22	1

Client Sample ID: WB 7-8, S2, C 072417 — Lab Sample ID: 180-68509-6

Date Collected: 07/24/17 10:55 — **Matrix: Solid**
Date Received: 07/25/17 09:15 — **Percent Solids: 72.6**

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	27.4		0.1	0.1	%			07/25/17 15:39	1
Percent Solids	72.6		0.1	0.1	%			07/25/17 15:39	1
Cyanide, Total	0.30	J	0.68	0.21	mg/Kg	☼	07/27/17 11:19	07/27/17 14:50	1

Client Sample ID: WB 7-8, S3, A 072417 — Lab Sample ID: 180-68509-7

Date Collected: 07/24/17 11:10 — **Matrix: Solid**
Date Received: 07/25/17 09:15 — **Percent Solids: 78.5**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.021	0.0033	mg/Kg	☼	07/27/17 05:30	07/27/17 12:49	1
Benzene	ND		0.0053	0.0021	mg/Kg	☼	07/27/17 05:30	07/27/17 12:49	1
2-Butanone (MEK)	ND		0.0053	0.0031	mg/Kg	☼	07/27/17 05:30	07/27/17 12:49	1
Carbon tetrachloride	ND		0.0053	0.0035	mg/Kg	☼	07/27/17 05:30	07/27/17 12:49	1
Chlorobenzene	ND		0.0053	0.0017	mg/Kg	☼	07/27/17 05:30	07/27/17 12:49	1
Chloroform	ND		0.0053	0.0022	mg/Kg	☼	07/27/17 05:30	07/27/17 12:49	1
cis-1,2-Dichloroethene	ND		0.0053	0.0017	mg/Kg	☼	07/27/17 05:30	07/27/17 12:49	1
1,2-Dichlorobenzene	ND		0.0053	0.0043	mg/Kg	☼	07/27/17 05:30	07/27/17 12:49	1
1,3-Dichlorobenzene	ND		0.0053	0.0017	mg/Kg	☼	07/27/17 05:30	07/27/17 12:49	1
1,4-Dichlorobenzene	ND		0.0053	0.0011	mg/Kg	☼	07/27/17 05:30	07/27/17 12:49	1
1,1-Dichloroethane	ND		0.0053	0.0019	mg/Kg	☼	07/27/17 05:30	07/27/17 12:49	1
1,2-Dichloroethane	ND		0.0053	0.0015	mg/Kg	☼	07/27/17 05:30	07/27/17 12:49	1
1,1-Dichloroethene	ND		0.0053	0.0030	mg/Kg	☼	07/27/17 05:30	07/27/17 12:49	1
Ethylbenzene	ND		0.0053	0.0023	mg/Kg	☼	07/27/17 05:30	07/27/17 12:49	1
Methylene Chloride	ND		0.0053	0.0025	mg/Kg	☼	07/27/17 05:30	07/27/17 12:49	1
Methyl tert-butyl ether	ND		0.0053	0.0039	mg/Kg	☼	07/27/17 05:30	07/27/17 12:49	1
n-Butylbenzene	ND		0.0053	0.0040	mg/Kg	☼	07/27/17 05:30	07/27/17 12:49	1
N-Propylbenzene	ND		0.0053	0.0022	mg/Kg	☼	07/27/17 05:30	07/27/17 12:49	1
sec-Butylbenzene	ND		0.0053	0.0026	mg/Kg	☼	07/27/17 05:30	07/27/17 12:49	1
tert-Butylbenzene	ND		0.0053	0.0019	mg/Kg	☼	07/27/17 05:30	07/27/17 12:49	1
Tetrachloroethene	ND		0.0053	0.0021	mg/Kg	☼	07/27/17 05:30	07/27/17 12:49	1
Toluene	ND		0.0053	0.0018	mg/Kg	☼	07/27/17 05:30	07/27/17 12:49	1
trans-1,2-Dichloroethene	ND		0.0053	0.0027	mg/Kg	☼	07/27/17 05:30	07/27/17 12:49	1
1,1,1-Trichloroethane	ND		0.0053	0.0027	mg/Kg	☼	07/27/17 05:30	07/27/17 12:49	1
Trichloroethene	ND		0.0053	0.0016	mg/Kg	☼	07/27/17 05:30	07/27/17 12:49	1
1,2,4-Trimethylbenzene	ND		0.0053	0.0014	mg/Kg	☼	07/27/17 05:30	07/27/17 12:49	1
1,3,5-Trimethylbenzene	ND		0.0053	0.0018	mg/Kg	☼	07/27/17 05:30	07/27/17 12:49	1
Vinyl chloride	ND		0.0053	0.0039	mg/Kg	☼	07/27/17 05:30	07/27/17 12:49	1
Xylenes, Total	ND		0.011	0.0046	mg/Kg	☼	07/27/17 05:30	07/27/17 12:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*63 - 120*	*07/27/17 05:30*	*07/27/17 12:49*	*1*
Dibromofluoromethane (Surr)	*99*		*68 - 121*	*07/27/17 05:30*	*07/27/17 12:49*	*1*
1,2-Dichloroethane-d4 (Surr)	*91*		*52 - 124*	*07/27/17 05:30*	*07/27/17 12:49*	*1*
Toluene-d8 (Surr)	*110*		*72 - 127*	*07/27/17 05:30*	*07/27/17 12:49*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	21.5		0.1	0.1	%			07/25/17 15:39	1
Percent Solids	78.5		0.1	0.1	%			07/25/17 15:39	1

Client Sample ID: WB 7-8, S3, B 072417 — Lab Sample ID: 180-68509-8

Date Collected: 07/24/17 11:20 — **Matrix: Solid**
Date Received: 07/25/17 09:15 — **Percent Solids: 83.6**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.018	0.0028	mg/Kg	☼	07/27/17 05:30	07/27/17 13:11	1
Benzene	ND		0.0045	0.0018	mg/Kg	☼	07/27/17 05:30	07/27/17 13:11	1
2-Butanone (MEK)	ND		0.0045	0.0026	mg/Kg	☼	07/27/17 05:30	07/27/17 13:11	1
Carbon tetrachloride	ND		0.0045	0.0030	mg/Kg	☼	07/27/17 05:30	07/27/17 13:11	1
Chlorobenzene	ND		0.0045	0.0014	mg/Kg	☼	07/27/17 05:30	07/27/17 13:11	1
Chloroform	ND		0.0045	0.0019	mg/Kg	☼	07/27/17 05:30	07/27/17 13:11	1
cis-1,2-Dichloroethene	ND		0.0045	0.0014	mg/Kg	☼	07/27/17 05:30	07/27/17 13:11	1
1,2-Dichlorobenzene	ND		0.0045	0.0036	mg/Kg	☼	07/27/17 05:30	07/27/17 13:11	1
1,3-Dichlorobenzene	ND		0.0045	0.0014	mg/Kg	☼	07/27/17 05:30	07/27/17 13:11	1
1,4-Dichlorobenzene	ND		0.0045	0.00091	mg/Kg	☼	07/27/17 05:30	07/27/17 13:11	1
1,1-Dichloroethane	ND		0.0045	0.0016	mg/Kg	☼	07/27/17 05:30	07/27/17 13:11	1
1,2-Dichloroethane	ND		0.0045	0.0013	mg/Kg	☼	07/27/17 05:30	07/27/17 13:11	1
1,1-Dichloroethene	ND		0.0045	0.0025	mg/Kg	☼	07/27/17 05:30	07/27/17 13:11	1
Ethylbenzene	ND		0.0045	0.0019	mg/Kg	☼	07/27/17 05:30	07/27/17 13:11	1
Methylene Chloride	ND		0.0045	0.0021	mg/Kg	☼	07/27/17 05:30	07/27/17 13:11	1
Methyl tert-butyl ether	ND		0.0045	0.0033	mg/Kg	☼	07/27/17 05:30	07/27/17 13:11	1
n-Butylbenzene	ND		0.0045	0.0034	mg/Kg	☼	07/27/17 05:30	07/27/17 13:11	1
N-Propylbenzene	ND		0.0045	0.0019	mg/Kg	☼	07/27/17 05:30	07/27/17 13:11	1
sec-Butylbenzene	ND		0.0045	0.0022	mg/Kg	☼	07/27/17 05:30	07/27/17 13:11	1
tert-Butylbenzene	ND		0.0045	0.0016	mg/Kg	☼	07/27/17 05:30	07/27/17 13:11	1
Tetrachloroethene	ND		0.0045	0.0018	mg/Kg	☼	07/27/17 05:30	07/27/17 13:11	1
Toluene	ND		0.0045	0.0015	mg/Kg	☼	07/27/17 05:30	07/27/17 13:11	1
trans-1,2-Dichloroethene	ND		0.0045	0.0023	mg/Kg	☼	07/27/17 05:30	07/27/17 13:11	1
1,1,1-Trichloroethane	ND		0.0045	0.0022	mg/Kg	☼	07/27/17 05:30	07/27/17 13:11	1
Trichloroethene	ND		0.0045	0.0013	mg/Kg	☼	07/27/17 05:30	07/27/17 13:11	1
1,2,4-Trimethylbenzene	ND		0.0045	0.0012	mg/Kg	☼	07/27/17 05:30	07/27/17 13:11	1
1,3,5-Trimethylbenzene	ND		0.0045	0.0015	mg/Kg	☼	07/27/17 05:30	07/27/17 13:11	1
Vinyl chloride	ND		0.0045	0.0033	mg/Kg	☼	07/27/17 05:30	07/27/17 13:11	1
Xylenes, Total	ND		0.0089	0.0038	mg/Kg	☼	07/27/17 05:30	07/27/17 13:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*63 - 120*	*07/27/17 05:30*	*07/27/17 13:11*	*1*
Dibromofluoromethane (Surr)	*104*		*68 - 121*	*07/27/17 05:30*	*07/27/17 13:11*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*52 - 124*	*07/27/17 05:30*	*07/27/17 13:11*	*1*
Toluene-d8 (Surr)	*116*		*72 - 127*	*07/27/17 05:30*	*07/27/17 13:11*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**16.4**		0.1	0.1	%			07/25/17 15:39	1
Percent Solids	**83.6**		0.1	0.1	%			07/25/17 15:39	1

Client Sample ID: WB 7-8, S3, C 072417 — Lab Sample ID: 180-68509-9

Date Collected: 07/24/17 11:30 — **Matrix: Solid**
Date Received: 07/25/17 09:15 — **Percent Solids: 77.7**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.013**		0.0086	0.0029	mg/Kg	☼	07/27/17 11:21	07/27/17 21:19	1
Acenaphthylene	**0.12**		0.0086	0.0029	mg/Kg	☼	07/27/17 11:21	07/27/17 21:19	1
Anthracene	**0.097**		0.0086	0.0032	mg/Kg	☼	07/27/17 11:21	07/27/17 21:19	1

Client Sample ID: WB 7-8, S3, C 072417 **Lab Sample ID: 180-68509-9**
Date Collected: 07/24/17 11:30 **Matrix: Solid**
Date Received: 07/25/17 09:15 **Percent Solids: 77.7**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	**0.18**		0.0086	0.0034	mg/Kg	☼	07/27/17 11:21	07/27/17 21:19	1
Benzo[a]pyrene	**0.19**		0.0086	0.0036	mg/Kg	☼	07/27/17 11:21	07/27/17 21:19	1
Benzo[b]fluoranthene	**0.27**		0.0086	0.0037	mg/Kg	☼	07/27/17 11:21	07/27/17 21:19	1
Benzo[g,h,i]perylene	**0.25**		0.0086	0.0037	mg/Kg	☼	07/27/17 11:21	07/27/17 21:19	1
Benzo[k]fluoranthene	**0.085**		0.0086	0.0030	mg/Kg	☼	07/27/17 11:21	07/27/17 21:19	1
Chrysene	**0.26**		0.0086	0.0033	mg/Kg	☼	07/27/17 11:21	07/27/17 21:19	1
Dibenz(a,h)anthracene	**0.062**		0.0086	0.0036	mg/Kg	☼	07/27/17 11:21	07/27/17 21:19	1
Dibenzofuran	**0.011**	**J**	0.042	0.0034	mg/Kg	☼	07/27/17 11:21	07/27/17 21:19	1
1,4-Dioxane	ND		0.086	0.0065	mg/Kg	☼	07/27/17 11:21	07/27/17 21:19	1
Fluoranthene	**0.31**		0.0086	0.0034	mg/Kg	☼	07/27/17 11:21	07/27/17 21:19	1
Fluorene	**0.019**		0.0086	0.0031	mg/Kg	☼	07/27/17 11:21	07/27/17 21:19	1
Hexachlorobenzene	ND		0.0086	0.0035	mg/Kg	☼	07/27/17 11:21	07/27/17 21:19	1
Indeno[1,2,3-cd]pyrene	**0.20**		0.0086	0.0033	mg/Kg	☼	07/27/17 11:21	07/27/17 21:19	1
2-Methylphenol	ND		0.042	0.0038	mg/Kg	☼	07/27/17 11:21	07/27/17 21:19	1
Methylphenol, 3 & 4	**0.019**	**J**	0.042	0.0038	mg/Kg	☼	07/27/17 11:21	07/27/17 21:19	1
Naphthalene	**0.030**		0.0086	0.0031	mg/Kg	☼	07/27/17 11:21	07/27/17 21:19	1
Pentachlorophenol	ND		0.22	0.081	mg/Kg	☼	07/27/17 11:21	07/27/17 21:19	1
Phenanthrene	**0.14**		0.0086	0.0036	mg/Kg	☼	07/27/17 11:21	07/27/17 21:19	1
Phenol	ND		0.042	0.0058	mg/Kg	☼	07/27/17 11:21	07/27/17 21:19	1
Pyrene	**0.26**		0.0086	0.0038	mg/Kg	☼	07/27/17 11:21	07/27/17 21:19	1
Hexachloroethane	ND		42	3.1	ug/Kg	☼	07/27/17 11:21	07/27/17 21:19	1
Nitrobenzene	ND		86	3.3	ug/Kg	☼	07/27/17 11:21	07/27/17 21:19	1
Hexachlorobutadiene	ND		8.6	2.7	ug/Kg	☼	07/27/17 11:21	07/27/17 21:19	1
2,4,5-Trichlorophenol	ND		42	4.1	ug/Kg	☼	07/27/17 11:21	07/27/17 21:19	1
2,4,6-Trichlorophenol	ND		42	3.8	ug/Kg	☼	07/27/17 11:21	07/27/17 21:19	1
2,4-Dinitrotoluene	ND		42	5.7	ug/Kg	☼	07/27/17 11:21	07/27/17 21:19	1
Pyridine	ND		42	4.1	ug/Kg	☼	07/27/17 11:21	07/27/17 21:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*58*		*42 - 100*	*07/27/17 11:21*	*07/27/17 21:19*	*1*
2-Fluorophenol (Surr)	*59*		*21 - 107*	*07/27/17 11:21*	*07/27/17 21:19*	*1*
Nitrobenzene-d5 (Surr)	*52*		*35 - 109*	*07/27/17 11:21*	*07/27/17 21:19*	*1*
Phenol-d5 (Surr)	*56*		*29 - 105*	*07/27/17 11:21*	*07/27/17 21:19*	*1*
Terphenyl-d14 (Surr)	*53*		*36 - 113*	*07/27/17 11:21*	*07/27/17 21:19*	*1*
2,4,6-Tribromophenol (Surr)	*74*		*20 - 134*	*07/27/17 11:21*	*07/27/17 21:19*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.021	0.011	mg/Kg	☼	07/26/17 08:33	07/27/17 01:30	1
PCB-1221	ND		0.021	0.011	mg/Kg	☼	07/26/17 08:33	07/27/17 01:30	1
PCB-1232	ND		0.021	0.0085	mg/Kg	☼	07/26/17 08:33	07/27/17 01:30	1
PCB-1242	ND		0.021	0.017	mg/Kg	☼	07/26/17 08:33	07/27/17 01:30	1
PCB-1248	**1.3**		0.021	0.010	mg/Kg	☼	07/26/17 08:33	07/27/17 01:30	1
PCB-1254	**0.46**		0.021	0.0094	mg/Kg	☼	07/26/17 08:33	07/27/17 01:30	1
PCB-1260	**0.050**		0.021	0.014	mg/Kg	☼	07/26/17 08:33	07/27/17 01:30	1
PCB-1262	ND		0.021	0.015	mg/Kg	☼	07/26/17 08:33	07/27/17 01:30	1
PCB-1268	ND		0.021	0.0065	mg/Kg	☼	07/26/17 08:33	07/27/17 01:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*61*		*23 - 150*	*07/26/17 08:33*	*07/27/17 01:30*	*1*

Client Sample ID: WB 7-8, S3, C 072417 — Lab Sample ID: 180-68509-9

Date Collected: 07/24/17 11:30 — **Matrix: Solid**
Date Received: 07/25/17 09:15 — **Percent Solids: 77.7**

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*65*		*23 - 150*	*07/26/17 08:33*	*07/27/17 01:30*	*1*
Tetrachloro-m-xylene (Surr)	*68*		*27 - 138*	*07/26/17 08:33*	*07/27/17 01:30*	*1*
Tetrachloro-m-xylene (Surr)	*65*		*27 - 138*	*07/26/17 08:33*	*07/27/17 01:30*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**7.4**		1.4	0.62	mg/Kg	☼	07/27/17 12:44	07/28/17 08:55	1
Barium	**120**		28	7.6	mg/Kg	☼	07/27/17 12:44	07/28/17 08:55	1
Beryllium	**0.45**	**J**	0.57	0.15	mg/Kg	☼	07/27/17 12:44	07/28/17 08:55	1
Cadmium	**0.26**	**J**	0.71	0.16	mg/Kg	☼	07/27/17 12:44	07/28/17 08:55	1
Chromium	**14**		0.71	0.18	mg/Kg	☼	07/27/17 12:44	07/28/17 08:55	1
Copper	**33**		3.5	1.1	mg/Kg	☼	07/27/17 12:44	07/28/17 08:55	1
Lead	**46**		1.4	0.46	mg/Kg	☼	07/27/17 12:44	07/28/17 08:55	1
Manganese	**510**		2.1	0.57	mg/Kg	☼	07/27/17 12:44	07/28/17 08:55	1
Nickel	**39**		5.7	1.3	mg/Kg	☼	07/27/17 12:44	07/28/17 08:55	1
Selenium	ND		1.4	0.56	mg/Kg	☼	07/27/17 12:44	07/28/17 08:55	1
Silver	ND		0.71	0.23	mg/Kg	☼	07/27/17 12:44	07/28/17 08:55	1
Zinc	**110**		2.8	1.4	mg/Kg	☼	07/27/17 12:44	07/28/17 08:55	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.060**		0.039	0.0086	mg/Kg	☼	07/26/17 05:04	07/26/17 09:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**22.3**		0.1	0.1	%			07/25/17 15:39	1
Percent Solids	**77.7**		0.1	0.1	%			07/25/17 15:39	1
Cyanide, Total	**0.40**	**J**	0.64	0.20	mg/Kg	☼	07/27/17 11:19	07/27/17 14:52	1

Client Sample ID: WB 7-8, S4, A 072417 — Lab Sample ID: 180-68509-10

Date Collected: 07/24/17 12:05 — **Matrix: Solid**
Date Received: 07/25/17 09:15 — **Percent Solids: 71.2**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.026	0.0041	mg/Kg	☼	07/27/17 05:30	07/27/17 13:34	1
Benzene	ND		0.0065	0.0025	mg/Kg	☼	07/27/17 05:30	07/27/17 13:34	1
2-Butanone (MEK)	ND		0.0065	0.0038	mg/Kg	☼	07/27/17 05:30	07/27/17 13:34	1
Carbon tetrachloride	ND		0.0065	0.0043	mg/Kg	☼	07/27/17 05:30	07/27/17 13:34	1
Chlorobenzene	ND		0.0065	0.0020	mg/Kg	☼	07/27/17 05:30	07/27/17 13:34	1
Chloroform	ND		0.0065	0.0027	mg/Kg	☼	07/27/17 05:30	07/27/17 13:34	1
cis-1,2-Dichloroethene	ND		0.0065	0.0020	mg/Kg	☼	07/27/17 05:30	07/27/17 13:34	1
1,2-Dichlorobenzene	ND		0.0065	0.0052	mg/Kg	☼	07/27/17 05:30	07/27/17 13:34	1
1,3-Dichlorobenzene	ND		0.0065	0.0021	mg/Kg	☼	07/27/17 05:30	07/27/17 13:34	1
1,4-Dichlorobenzene	ND		0.0065	0.0013	mg/Kg	☼	07/27/17 05:30	07/27/17 13:34	1
1,1-Dichloroethane	ND		0.0065	0.0023	mg/Kg	☼	07/27/17 05:30	07/27/17 13:34	1
1,2-Dichloroethane	ND		0.0065	0.0019	mg/Kg	☼	07/27/17 05:30	07/27/17 13:34	1
1,1-Dichloroethene	ND		0.0065	0.0037	mg/Kg	☼	07/27/17 05:30	07/27/17 13:34	1
Ethylbenzene	ND		0.0065	0.0028	mg/Kg	☼	07/27/17 05:30	07/27/17 13:34	1
Methylene Chloride	ND		0.0065	0.0031	mg/Kg	☼	07/27/17 05:30	07/27/17 13:34	1

Client Sample ID: WB 7-8, S4, A 072417 — Lab Sample ID: 180-68509-10

Date Collected: 07/24/17 12:05 — **Matrix: Solid**
Date Received: 07/25/17 09:15 — **Percent Solids: 71.2**

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.0065	0.0048	mg/Kg	☼	07/27/17 05:30	07/27/17 13:34	1
n-Butylbenzene	ND		0.0065	0.0049	mg/Kg	☼	07/27/17 05:30	07/27/17 13:34	1
N-Propylbenzene	ND		0.0065	0.0027	mg/Kg	☼	07/27/17 05:30	07/27/17 13:34	1
sec-Butylbenzene	ND		0.0065	0.0032	mg/Kg	☼	07/27/17 05:30	07/27/17 13:34	1
tert-Butylbenzene	ND		0.0065	0.0024	mg/Kg	☼	07/27/17 05:30	07/27/17 13:34	1
Tetrachloroethene	ND		0.0065	0.0026	mg/Kg	☼	07/27/17 05:30	07/27/17 13:34	1
Toluene	ND		0.0065	0.0022	mg/Kg	☼	07/27/17 05:30	07/27/17 13:34	1
trans-1,2-Dichloroethene	ND		0.0065	0.0033	mg/Kg	☼	07/27/17 05:30	07/27/17 13:34	1
1,1,1-Trichloroethane	ND		0.0065	0.0032	mg/Kg	☼	07/27/17 05:30	07/27/17 13:34	1
Trichloroethene	ND		0.0065	0.0019	mg/Kg	☼	07/27/17 05:30	07/27/17 13:34	1
1,2,4-Trimethylbenzene	ND		0.0065	0.0017	mg/Kg	☼	07/27/17 05:30	07/27/17 13:34	1
1,3,5-Trimethylbenzene	ND		0.0065	0.0022	mg/Kg	☼	07/27/17 05:30	07/27/17 13:34	1
Vinyl chloride	ND		0.0065	0.0048	mg/Kg	☼	07/27/17 05:30	07/27/17 13:34	1
Xylenes, Total	ND		0.013	0.0056	mg/Kg	☼	07/27/17 05:30	07/27/17 13:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*63 - 120*	*07/27/17 05:30*	*07/27/17 13:34*	*1*
Dibromofluoromethane (Surr)	*101*		*68 - 121*	*07/27/17 05:30*	*07/27/17 13:34*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*52 - 124*	*07/27/17 05:30*	*07/27/17 13:34*	*1*
Toluene-d8 (Surr)	*113*		*72 - 127*	*07/27/17 05:30*	*07/27/17 13:34*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**28.8**		0.1	0.1	%			07/25/17 15:39	1
Percent Solids	**71.2**		0.1	0.1	%			07/25/17 15:39	1

Client Sample ID: WB 7-8, S4, B 072417 — Lab Sample ID: 180-68509-11

Date Collected: 07/24/17 12:10 — **Matrix: Solid**
Date Received: 07/25/17 09:15 — **Percent Solids: 62.4**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.029	0.0046	mg/Kg	☼	07/27/17 05:30	07/27/17 13:57	1
Benzene	ND		0.0073	0.0028	mg/Kg	☼	07/27/17 05:30	07/27/17 13:57	1
2-Butanone (MEK)	ND		0.0073	0.0042	mg/Kg	☼	07/27/17 05:30	07/27/17 13:57	1
Carbon tetrachloride	ND		0.0073	0.0048	mg/Kg	☼	07/27/17 05:30	07/27/17 13:57	1
Chlorobenzene	ND		0.0073	0.0023	mg/Kg	☼	07/27/17 05:30	07/27/17 13:57	1
Chloroform	ND		0.0073	0.0031	mg/Kg	☼	07/27/17 05:30	07/27/17 13:57	1
cis-1,2-Dichloroethene	ND		0.0073	0.0023	mg/Kg	☼	07/27/17 05:30	07/27/17 13:57	1
1,2-Dichlorobenzene	ND		0.0073	0.0058	mg/Kg	☼	07/27/17 05:30	07/27/17 13:57	1
1,3-Dichlorobenzene	ND		0.0073	0.0023	mg/Kg	☼	07/27/17 05:30	07/27/17 13:57	1
1,4-Dichlorobenzene	ND		0.0073	0.0015	mg/Kg	☼	07/27/17 05:30	07/27/17 13:57	1
1,1-Dichloroethane	ND		0.0073	0.0026	mg/Kg	☼	07/27/17 05:30	07/27/17 13:57	1
1,2-Dichloroethane	ND		0.0073	0.0021	mg/Kg	☼	07/27/17 05:30	07/27/17 13:57	1
1,1-Dichloroethene	ND		0.0073	0.0041	mg/Kg	☼	07/27/17 05:30	07/27/17 13:57	1
Ethylbenzene	ND		0.0073	0.0031	mg/Kg	☼	07/27/17 05:30	07/27/17 13:57	1
Methylene Chloride	ND		0.0073	0.0034	mg/Kg	☼	07/27/17 05:30	07/27/17 13:57	1
Methyl tert-butyl ether	ND		0.0073	0.0053	mg/Kg	☼	07/27/17 05:30	07/27/17 13:57	1
n-Butylbenzene	ND		0.0073	0.0055	mg/Kg	☼	07/27/17 05:30	07/27/17 13:57	1
N-Propylbenzene	ND		0.0073	0.0031	mg/Kg	☼	07/27/17 05:30	07/27/17 13:57	1

Client Sample ID: WB 7-8, S4, B 072417 — Lab Sample ID: 180-68509-11

Date Collected: 07/24/17 12:10 — **Matrix: Solid**
Date Received: 07/25/17 09:15 — **Percent Solids: 62.4**

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		0.0073	0.0035	mg/Kg	☼	07/27/17 05:30	07/27/17 13:57	1
tert-Butylbenzene	ND		0.0073	0.0027	mg/Kg	☼	07/27/17 05:30	07/27/17 13:57	1
Tetrachloroethene	ND		0.0073	0.0029	mg/Kg	☼	07/27/17 05:30	07/27/17 13:57	1
Toluene	ND		0.0073	0.0024	mg/Kg	☼	07/27/17 05:30	07/27/17 13:57	1
trans-1,2-Dichloroethene	ND		0.0073	0.0037	mg/Kg	☼	07/27/17 05:30	07/27/17 13:57	1
1,1,1-Trichloroethane	ND		0.0073	0.0036	mg/Kg	☼	07/27/17 05:30	07/27/17 13:57	1
Trichloroethene	ND		0.0073	0.0022	mg/Kg	☼	07/27/17 05:30	07/27/17 13:57	1
1,2,4-Trimethylbenzene	ND		0.0073	0.0020	mg/Kg	☼	07/27/17 05:30	07/27/17 13:57	1
1,3,5-Trimethylbenzene	ND		0.0073	0.0025	mg/Kg	☼	07/27/17 05:30	07/27/17 13:57	1
Vinyl chloride	ND		0.0073	0.0053	mg/Kg	☼	07/27/17 05:30	07/27/17 13:57	1
Xylenes, Total	ND		0.015	0.0063	mg/Kg	☼	07/27/17 05:30	07/27/17 13:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*63 - 120*	*07/27/17 05:30*	*07/27/17 13:57*	*1*
Dibromofluoromethane (Surr)	*97*		*68 - 121*	*07/27/17 05:30*	*07/27/17 13:57*	*1*
1,2-Dichloroethane-d4 (Surr)	*90*		*52 - 124*	*07/27/17 05:30*	*07/27/17 13:57*	*1*
Toluene-d8 (Surr)	*109*		*72 - 127*	*07/27/17 05:30*	*07/27/17 13:57*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**37.6**		0.1	0.1	%			07/25/17 15:39	1
Percent Solids	**62.4**		0.1	0.1	%			07/25/17 15:39	1

Client Sample ID: WB 7-8, S4, C 072417 — Lab Sample ID: 180-68509-12

Date Collected: 07/24/17 12:15 — **Matrix: Solid**
Date Received: 07/25/17 09:15 — **Percent Solids: 71.8**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.0089**	**J**	0.0093	0.0031	mg/Kg	☼	07/27/17 11:21	07/27/17 21:46	1
Acenaphthylene	**0.052**		0.0093	0.0032	mg/Kg	☼	07/27/17 11:21	07/27/17 21:46	1
Anthracene	**0.050**		0.0093	0.0034	mg/Kg	☼	07/27/17 11:21	07/27/17 21:46	1
Benzo[a]anthracene	**0.12**		0.0093	0.0037	mg/Kg	☼	07/27/17 11:21	07/27/17 21:46	1
Benzo[a]pyrene	**0.13**		0.0093	0.0038	mg/Kg	☼	07/27/17 11:21	07/27/17 21:46	1
Benzo[b]fluoranthene	**0.17**		0.0093	0.0040	mg/Kg	☼	07/27/17 11:21	07/27/17 21:46	1
Benzo[g,h,i]perylene	**0.14**		0.0093	0.0040	mg/Kg	☼	07/27/17 11:21	07/27/17 21:46	1
Benzo[k]fluoranthene	**0.058**		0.0093	0.0032	mg/Kg	☼	07/27/17 11:21	07/27/17 21:46	1
Chrysene	**0.13**		0.0093	0.0036	mg/Kg	☼	07/27/17 11:21	07/27/17 21:46	1
Dibenz(a,h)anthracene	**0.037**		0.0093	0.0038	mg/Kg	☼	07/27/17 11:21	07/27/17 21:46	1
Dibenzofuran	**0.0078**	**J**	0.046	0.0037	mg/Kg	☼	07/27/17 11:21	07/27/17 21:46	1
1,4-Dioxane	ND		0.093	0.0070	mg/Kg	☼	07/27/17 11:21	07/27/17 21:46	1
Fluoranthene	**0.23**		0.0093	0.0037	mg/Kg	☼	07/27/17 11:21	07/27/17 21:46	1
Fluorene	**0.013**		0.0093	0.0033	mg/Kg	☼	07/27/17 11:21	07/27/17 21:46	1
Hexachlorobenzene	ND		0.0093	0.0037	mg/Kg	☼	07/27/17 11:21	07/27/17 21:46	1
Indeno[1,2,3-cd]pyrene	**0.12**		0.0093	0.0036	mg/Kg	☼	07/27/17 11:21	07/27/17 21:46	1
2-Methylphenol	ND		0.046	0.0041	mg/Kg	☼	07/27/17 11:21	07/27/17 21:46	1
Methylphenol, 3 & 4	**0.0074**	**J**	0.046	0.0041	mg/Kg	☼	07/27/17 11:21	07/27/17 21:46	1
Naphthalene	**0.016**		0.0093	0.0033	mg/Kg	☼	07/27/17 11:21	07/27/17 21:46	1
Pentachlorophenol	ND		0.24	0.088	mg/Kg	☼	07/27/17 11:21	07/27/17 21:46	1
Phenanthrene	**0.10**		0.0093	0.0039	mg/Kg	☼	07/27/17 11:21	07/27/17 21:46	1

Client Sample ID: WB 7-8, S4, C 072417 **Lab Sample ID: 180-68509-12**
Date Collected: 07/24/17 12:15 **Matrix: Solid**
Date Received: 07/25/17 09:15 **Percent Solids: 71.8**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		0.046	0.0063	mg/Kg	☼	07/27/17 11:21	07/27/17 21:46	1
Pyrene	**0.17**		0.0093	0.0041	mg/Kg	☼	07/27/17 11:21	07/27/17 21:46	1
Hexachloroethane	ND		46	3.3	ug/Kg	☼	07/27/17 11:21	07/27/17 21:46	1
Nitrobenzene	ND		93	3.6	ug/Kg	☼	07/27/17 11:21	07/27/17 21:46	1
Hexachlorobutadiene	ND		9.3	2.9	ug/Kg	☼	07/27/17 11:21	07/27/17 21:46	1
2,4,5-Trichlorophenol	ND		46	4.4	ug/Kg	☼	07/27/17 11:21	07/27/17 21:46	1
2,4,6-Trichlorophenol	ND		46	4.1	ug/Kg	☼	07/27/17 11:21	07/27/17 21:46	1
2,4-Dinitrotoluene	ND		46	6.2	ug/Kg	☼	07/27/17 11:21	07/27/17 21:46	1
Pyridine	ND		46	4.4	ug/Kg	☼	07/27/17 11:21	07/27/17 21:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*45*		*42 - 100*	*07/27/17 11:21*	*07/27/17 21:46*	*1*
2-Fluorophenol (Surr)	*49*		*21 - 107*	*07/27/17 11:21*	*07/27/17 21:46*	*1*
Nitrobenzene-d5 (Surr)	*43*		*35 - 109*	*07/27/17 11:21*	*07/27/17 21:46*	*1*
Phenol-d5 (Surr)	*46*		*29 - 105*	*07/27/17 11:21*	*07/27/17 21:46*	*1*
Terphenyl-d14 (Surr)	*41*		*36 - 113*	*07/27/17 11:21*	*07/27/17 21:46*	*1*
2,4,6-Tribromophenol (Surr)	*57*		*20 - 134*	*07/27/17 11:21*	*07/27/17 21:46*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.023	0.012	mg/Kg	☼	07/26/17 08:33	07/27/17 01:50	1
PCB-1221	ND		0.023	0.012	mg/Kg	☼	07/26/17 08:33	07/27/17 01:50	1
PCB-1232	ND		0.023	0.0091	mg/Kg	☼	07/26/17 08:33	07/27/17 01:50	1
PCB-1242	ND		0.023	0.018	mg/Kg	☼	07/26/17 08:33	07/27/17 01:50	1
PCB-1248	**1.0**		0.023	0.011	mg/Kg	☼	07/26/17 08:33	07/27/17 01:50	1
PCB-1254	**0.42**		0.023	0.010	mg/Kg	☼	07/26/17 08:33	07/27/17 01:50	1
PCB-1260	**0.040**		0.023	0.015	mg/Kg	☼	07/26/17 08:33	07/27/17 01:50	1
PCB-1262	ND		0.023	0.016	mg/Kg	☼	07/26/17 08:33	07/27/17 01:50	1
PCB-1268	ND		0.023	0.0070	mg/Kg	☼	07/26/17 08:33	07/27/17 01:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*66*		*23 - 150*	*07/26/17 08:33*	*07/27/17 01:50*	*1*
DCB Decachlorobiphenyl (Surr)	*65*		*23 - 150*	*07/26/17 08:33*	*07/27/17 01:50*	*1*
Tetrachloro-m-xylene (Surr)	*65*		*27 - 138*	*07/26/17 08:33*	*07/27/17 01:50*	*1*
Tetrachloro-m-xylene (Surr)	*66*		*27 - 138*	*07/26/17 08:33*	*07/27/17 01:50*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**5.9**		1.3	0.59	mg/Kg	☼	07/27/17 12:44	07/28/17 09:00	1
Barium	**95**		27	7.1	mg/Kg	☼	07/27/17 12:44	07/28/17 09:00	1
Beryllium	**0.34**	**J**	0.53	0.14	mg/Kg	☼	07/27/17 12:44	07/28/17 09:00	1
Cadmium	**0.19**	**J**	0.66	0.15	mg/Kg	☼	07/27/17 12:44	07/28/17 09:00	1
Chromium	**9.6**		0.66	0.17	mg/Kg	☼	07/27/17 12:44	07/28/17 09:00	1
Copper	**21**		3.3	1.0	mg/Kg	☼	07/27/17 12:44	07/28/17 09:00	1
Lead	**35**		1.3	0.44	mg/Kg	☼	07/27/17 12:44	07/28/17 09:00	1
Manganese	**450**		2.0	0.54	mg/Kg	☼	07/27/17 12:44	07/28/17 09:00	1
Nickel	**17**		5.3	1.2	mg/Kg	☼	07/27/17 12:44	07/28/17 09:00	1
Selenium	ND		1.3	0.53	mg/Kg	☼	07/27/17 12:44	07/28/17 09:00	1
Silver	ND		0.66	0.22	mg/Kg	☼	07/27/17 12:44	07/28/17 09:00	1
Zinc	**55**		2.7	1.3	mg/Kg	☼	07/27/17 12:44	07/28/17 09:00	1

Client Sample ID: WB 7-8, S4, C 072417

Lab Sample ID: 180-68509-12
Date Collected: 07/24/17 12:15
Matrix: Solid
Date Received: 07/25/17 09:15
Percent Solids: 71.8

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.048		0.044	0.0098	mg/Kg	☼	07/26/17 05:04	07/26/17 09:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	28.2		0.1	0.1	%			07/25/17 15:39	1
Percent Solids	71.8		0.1	0.1	%			07/25/17 15:39	1
Cyanide, Total	0.75		0.69	0.21	mg/Kg	☼	07/27/17 11:19	07/27/17 14:54	1

Client Sample ID: W9, S1, A 072417

Lab Sample ID: 180-68509-13
Date Collected: 07/24/17 13:10
Matrix: Solid
Date Received: 07/25/17 09:15
Percent Solids: 94.1

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.017	0.0028	mg/Kg	☼	07/27/17 05:30	07/27/17 14:20	1
Benzene	ND		0.0044	0.0017	mg/Kg	☼	07/27/17 05:30	07/27/17 14:20	1
2-Butanone (MEK)	ND		0.0044	0.0025	mg/Kg	☼	07/27/17 05:30	07/27/17 14:20	1
Carbon tetrachloride	ND		0.0044	0.0029	mg/Kg	☼	07/27/17 05:30	07/27/17 14:20	1
Chlorobenzene	ND		0.0044	0.0014	mg/Kg	☼	07/27/17 05:30	07/27/17 14:20	1
Chloroform	ND		0.0044	0.0018	mg/Kg	☼	07/27/17 05:30	07/27/17 14:20	1
cis-1,2-Dichloroethene	ND		0.0044	0.0014	mg/Kg	☼	07/27/17 05:30	07/27/17 14:20	1
1,2-Dichlorobenzene	ND		0.0044	0.0035	mg/Kg	☼	07/27/17 05:30	07/27/17 14:20	1
1,3-Dichlorobenzene	ND		0.0044	0.0014	mg/Kg	☼	07/27/17 05:30	07/27/17 14:20	1
1,4-Dichlorobenzene	ND		0.0044	0.00089	mg/Kg	☼	07/27/17 05:30	07/27/17 14:20	1
1,1-Dichloroethane	ND		0.0044	0.0016	mg/Kg	☼	07/27/17 05:30	07/27/17 14:20	1
1,2-Dichloroethane	ND		0.0044	0.0013	mg/Kg	☼	07/27/17 05:30	07/27/17 14:20	1
1,1-Dichloroethene	ND		0.0044	0.0025	mg/Kg	☼	07/27/17 05:30	07/27/17 14:20	1
Ethylbenzene	ND		0.0044	0.0019	mg/Kg	☼	07/27/17 05:30	07/27/17 14:20	1
Methylene Chloride	ND		0.0044	0.0021	mg/Kg	☼	07/27/17 05:30	07/27/17 14:20	1
Methyl tert-butyl ether	ND		0.0044	0.0032	mg/Kg	☼	07/27/17 05:30	07/27/17 14:20	1
n-Butylbenzene	ND		0.0044	0.0033	mg/Kg	☼	07/27/17 05:30	07/27/17 14:20	1
N-Propylbenzene	ND		0.0044	0.0018	mg/Kg	☼	07/27/17 05:30	07/27/17 14:20	1
sec-Butylbenzene	ND		0.0044	0.0021	mg/Kg	☼	07/27/17 05:30	07/27/17 14:20	1
tert-Butylbenzene	ND		0.0044	0.0016	mg/Kg	☼	07/27/17 05:30	07/27/17 14:20	1
Tetrachloroethene	ND		0.0044	0.0017	mg/Kg	☼	07/27/17 05:30	07/27/17 14:20	1
Toluene	ND		0.0044	0.0015	mg/Kg	☼	07/27/17 05:30	07/27/17 14:20	1
trans-1,2-Dichloroethene	ND		0.0044	0.0022	mg/Kg	☼	07/27/17 05:30	07/27/17 14:20	1
1,1,1-Trichloroethane	ND		0.0044	0.0022	mg/Kg	☼	07/27/17 05:30	07/27/17 14:20	1
Trichloroethene	ND		0.0044	0.0013	mg/Kg	☼	07/27/17 05:30	07/27/17 14:20	1
1,2,4-Trimethylbenzene	ND		0.0044	0.0012	mg/Kg	☼	07/27/17 05:30	07/27/17 14:20	1
1,3,5-Trimethylbenzene	ND		0.0044	0.0015	mg/Kg	☼	07/27/17 05:30	07/27/17 14:20	1
Vinyl chloride	ND		0.0044	0.0032	mg/Kg	☼	07/27/17 05:30	07/27/17 14:20	1
Xylenes, Total	ND		0.0087	0.0038	mg/Kg	☼	07/27/17 05:30	07/27/17 14:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*63 - 120*	*07/27/17 05:30*	*07/27/17 14:20*	*1*
Dibromofluoromethane (Surr)	*92*		*68 - 121*	*07/27/17 05:30*	*07/27/17 14:20*	*1*
1,2-Dichloroethane-d4 (Surr)	*84*		*52 - 124*	*07/27/17 05:30*	*07/27/17 14:20*	*1*
Toluene-d8 (Surr)	*101*		*72 - 127*	*07/27/17 05:30*	*07/27/17 14:20*	*1*

Client Sample ID: W9, S1, A 072417 — Lab Sample ID: 180-68509-13

Date Collected: 07/24/17 13:10 — **Matrix: Solid**
Date Received: 07/25/17 09:15 — **Percent Solids: 94.1**

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	5.9		0.1	0.1	%			07/25/17 15:39	1
Percent Solids	94.1		0.1	0.1	%			07/25/17 15:39	1

Client Sample ID: W9, S1, B 072417 — Lab Sample ID: 180-68509-14

Date Collected: 07/24/17 13:15 — **Matrix: Solid**
Date Received: 07/25/17 09:15 — **Percent Solids: 94.2**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.018	0.0029	mg/Kg	☼	07/27/17 05:30	07/27/17 14:42	1
Benzene	ND		0.0046	0.0018	mg/Kg	☼	07/27/17 05:30	07/27/17 14:42	1
2-Butanone (MEK)	ND		0.0046	0.0026	mg/Kg	☼	07/27/17 05:30	07/27/17 14:42	1
Carbon tetrachloride	ND		0.0046	0.0030	mg/Kg	☼	07/27/17 05:30	07/27/17 14:42	1
Chlorobenzene	ND		0.0046	0.0014	mg/Kg	☼	07/27/17 05:30	07/27/17 14:42	1
Chloroform	ND		0.0046	0.0019	mg/Kg	☼	07/27/17 05:30	07/27/17 14:42	1
cis-1,2-Dichloroethene	ND		0.0046	0.0014	mg/Kg	☼	07/27/17 05:30	07/27/17 14:42	1
1,2-Dichlorobenzene	ND		0.0046	0.0037	mg/Kg	☼	07/27/17 05:30	07/27/17 14:42	1
1,3-Dichlorobenzene	ND		0.0046	0.0015	mg/Kg	☼	07/27/17 05:30	07/27/17 14:42	1
1,4-Dichlorobenzene	ND		0.0046	0.00093	mg/Kg	☼	07/27/17 05:30	07/27/17 14:42	1
1,1-Dichloroethane	ND		0.0046	0.0017	mg/Kg	☼	07/27/17 05:30	07/27/17 14:42	1
1,2-Dichloroethane	ND		0.0046	0.0013	mg/Kg	☼	07/27/17 05:30	07/27/17 14:42	1
1,1-Dichloroethene	ND		0.0046	0.0026	mg/Kg	☼	07/27/17 05:30	07/27/17 14:42	1
Ethylbenzene	ND		0.0046	0.0020	mg/Kg	☼	07/27/17 05:30	07/27/17 14:42	1
Methylene Chloride	ND		0.0046	0.0022	mg/Kg	☼	07/27/17 05:30	07/27/17 14:42	1
Methyl tert-butyl ether	ND		0.0046	0.0034	mg/Kg	☼	07/27/17 05:30	07/27/17 14:42	1
n-Butylbenzene	ND		0.0046	0.0035	mg/Kg	☼	07/27/17 05:30	07/27/17 14:42	1
N-Propylbenzene	ND		0.0046	0.0019	mg/Kg	☼	07/27/17 05:30	07/27/17 14:42	1
sec-Butylbenzene	ND		0.0046	0.0022	mg/Kg	☼	07/27/17 05:30	07/27/17 14:42	1
tert-Butylbenzene	ND		0.0046	0.0017	mg/Kg	☼	07/27/17 05:30	07/27/17 14:42	1
Tetrachloroethene	ND		0.0046	0.0018	mg/Kg	☼	07/27/17 05:30	07/27/17 14:42	1
Toluene	ND		0.0046	0.0015	mg/Kg	☼	07/27/17 05:30	07/27/17 14:42	1
trans-1,2-Dichloroethene	ND		0.0046	0.0023	mg/Kg	☼	07/27/17 05:30	07/27/17 14:42	1
1,1,1-Trichloroethane	ND		0.0046	0.0023	mg/Kg	☼	07/27/17 05:30	07/27/17 14:42	1
Trichloroethene	ND		0.0046	0.0014	mg/Kg	☼	07/27/17 05:30	07/27/17 14:42	1
1,2,4-Trimethylbenzene	ND		0.0046	0.0012	mg/Kg	☼	07/27/17 05:30	07/27/17 14:42	1
1,3,5-Trimethylbenzene	ND		0.0046	0.0016	mg/Kg	☼	07/27/17 05:30	07/27/17 14:42	1
Vinyl chloride	ND		0.0046	0.0033	mg/Kg	☼	07/27/17 05:30	07/27/17 14:42	1
Xylenes, Total	ND		0.0091	0.0039	mg/Kg	☼	07/27/17 05:30	07/27/17 14:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*63 - 120*	*07/27/17 05:30*	*07/27/17 14:42*	*1*
Dibromofluoromethane (Surr)	*101*		*68 - 121*	*07/27/17 05:30*	*07/27/17 14:42*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*52 - 124*	*07/27/17 05:30*	*07/27/17 14:42*	*1*
Toluene-d8 (Surr)	*110*		*72 - 127*	*07/27/17 05:30*	*07/27/17 14:42*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	5.8		0.1	0.1	%			07/25/17 15:39	1
Percent Solids	94.2		0.1	0.1	%			07/25/17 15:39	1

Client Sample ID: W9, S1, C 072417 **Lab Sample ID: 180-68509-15**
Date Collected: 07/24/17 13:20 **Matrix: Solid**
Date Received: 07/25/17 09:15 **Percent Solids: 92.1**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.021**	**J**	0.022	0.0073	mg/Kg	☼	07/27/17 11:21	07/27/17 22:13	3
Acenaphthylene	**0.052**		0.022	0.0074	mg/Kg	☼	07/27/17 11:21	07/27/17 22:13	3
Anthracene	**0.077**		0.022	0.0080	mg/Kg	☼	07/27/17 11:21	07/27/17 22:13	3
Benzo[a]anthracene	**0.29**		0.022	0.0086	mg/Kg	☼	07/27/17 11:21	07/27/17 22:13	3
Benzo[a]pyrene	**0.31**		0.022	0.0090	mg/Kg	☼	07/27/17 11:21	07/27/17 22:13	3
Benzo[b]fluoranthene	**0.41**		0.022	0.0094	mg/Kg	☼	07/27/17 11:21	07/27/17 22:13	3
Benzo[g,h,i]perylene	**0.34**		0.022	0.0094	mg/Kg	☼	07/27/17 11:21	07/27/17 22:13	3
Benzo[k]fluoranthene	**0.14**		0.022	0.0075	mg/Kg	☼	07/27/17 11:21	07/27/17 22:13	3
Chrysene	**0.36**		0.022	0.0085	mg/Kg	☼	07/27/17 11:21	07/27/17 22:13	3
Dibenz(a,h)anthracene	**0.084**		0.022	0.0090	mg/Kg	☼	07/27/17 11:21	07/27/17 22:13	3
Dibenzofuran	**0.027**	**J**	0.11	0.0087	mg/Kg	☼	07/27/17 11:21	07/27/17 22:13	3
1,4-Dioxane	ND		0.22	0.016	mg/Kg	☼	07/27/17 11:21	07/27/17 22:13	3
Fluoranthene	**0.65**		0.022	0.0086	mg/Kg	☼	07/27/17 11:21	07/27/17 22:13	3
Fluorene	**0.026**		0.022	0.0077	mg/Kg	☼	07/27/17 11:21	07/27/17 22:13	3
Hexachlorobenzene	ND		0.022	0.0087	mg/Kg	☼	07/27/17 11:21	07/27/17 22:13	3
Indeno[1,2,3-cd]pyrene	**0.31**		0.022	0.0084	mg/Kg	☼	07/27/17 11:21	07/27/17 22:13	3
2-Methylphenol	ND		0.11	0.0096	mg/Kg	☼	07/27/17 11:21	07/27/17 22:13	3
Methylphenol, 3 & 4	ND		0.11	0.0096	mg/Kg	☼	07/27/17 11:21	07/27/17 22:13	3
Naphthalene	**0.047**		0.022	0.0078	mg/Kg	☼	07/27/17 11:21	07/27/17 22:13	3
Pentachlorophenol	ND		0.55	0.21	mg/Kg	☼	07/27/17 11:21	07/27/17 22:13	3
Phenanthrene	**0.28**		0.022	0.0091	mg/Kg	☼	07/27/17 11:21	07/27/17 22:13	3
Phenol	ND		0.11	0.015	mg/Kg	☼	07/27/17 11:21	07/27/17 22:13	3
Pyrene	**0.45**		0.022	0.0097	mg/Kg	☼	07/27/17 11:21	07/27/17 22:13	3
Hexachloroethane	ND		110	7.8	ug/Kg	☼	07/27/17 11:21	07/27/17 22:13	3
Nitrobenzene	ND		220	8.3	ug/Kg	☼	07/27/17 11:21	07/27/17 22:13	3
Hexachlorobutadiene	ND		22	6.8	ug/Kg	☼	07/27/17 11:21	07/27/17 22:13	3
2,4,5-Trichlorophenol	ND		110	10	ug/Kg	☼	07/27/17 11:21	07/27/17 22:13	3
2,4,6-Trichlorophenol	ND		110	9.5	ug/Kg	☼	07/27/17 11:21	07/27/17 22:13	3
2,4-Dinitrotoluene	ND		110	14	ug/Kg	☼	07/27/17 11:21	07/27/17 22:13	3
Pyridine	ND		110	10	ug/Kg	☼	07/27/17 11:21	07/27/17 22:13	3

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*72*		*42 - 100*	*07/27/17 11:21*	*07/27/17 22:13*	*3*
2-Fluorophenol (Surr)	*62*		*21 - 107*	*07/27/17 11:21*	*07/27/17 22:13*	*3*
Nitrobenzene-d5 (Surr)	*62*		*35 - 109*	*07/27/17 11:21*	*07/27/17 22:13*	*3*
Phenol-d5 (Surr)	*64*		*29 - 105*	*07/27/17 11:21*	*07/27/17 22:13*	*3*
Terphenyl-d14 (Surr)	*62*		*36 - 113*	*07/27/17 11:21*	*07/27/17 22:13*	*3*
2,4,6-Tribromophenol (Surr)	*84*		*20 - 134*	*07/27/17 11:21*	*07/27/17 22:13*	*3*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.018	0.0095	mg/Kg	☼	07/26/17 08:33	07/27/17 02:11	1
PCB-1221	ND		0.018	0.0093	mg/Kg	☼	07/26/17 08:33	07/27/17 02:11	1
PCB-1232	ND		0.018	0.0071	mg/Kg	☼	07/26/17 08:33	07/27/17 02:11	1
PCB-1242	ND		0.018	0.014	mg/Kg	☼	07/26/17 08:33	07/27/17 02:11	1
PCB-1248	**0.15**		0.018	0.0086	mg/Kg	☼	07/26/17 08:33	07/27/17 02:11	1
PCB-1254	**0.053**		0.018	0.0079	mg/Kg	☼	07/26/17 08:33	07/27/17 02:11	1
PCB-1260	ND		0.018	0.012	mg/Kg	☼	07/26/17 08:33	07/27/17 02:11	1
PCB-1262	ND		0.018	0.013	mg/Kg	☼	07/26/17 08:33	07/27/17 02:11	1
PCB-1268	ND		0.018	0.0055	mg/Kg	☼	07/26/17 08:33	07/27/17 02:11	1

Client Sample ID: W9, S1, C 072417

Lab Sample ID: 180-68509-15

Date Collected: 07/24/17 13:20
Matrix: Solid
Date Received: 07/25/17 09:15
Percent Solids: 92.1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	65		23 - 150	07/26/17 08:33	07/27/17 02:11	1
DCB Decachlorobiphenyl (Surr)	70		23 - 150	07/26/17 08:33	07/27/17 02:11	1
Tetrachloro-m-xylene (Surr)	68		27 - 138	07/26/17 08:33	07/27/17 02:11	1
Tetrachloro-m-xylene (Surr)	71		27 - 138	07/26/17 08:33	07/27/17 02:11	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.7		1.1	0.50	mg/Kg	☼	07/27/17 12:44	07/28/17 09:05	1
Barium	68		23	6.1	mg/Kg	☼	07/27/17 12:44	07/28/17 09:05	1
Beryllium	0.33	J	0.45	0.12	mg/Kg	☼	07/27/17 12:44	07/28/17 09:05	1
Cadmium	0.15	J	0.57	0.13	mg/Kg	☼	07/27/17 12:44	07/28/17 09:05	1
Chromium	10		0.57	0.15	mg/Kg	☼	07/27/17 12:44	07/28/17 09:05	1
Copper	34		2.8	0.87	mg/Kg	☼	07/27/17 12:44	07/28/17 09:05	1
Lead	35		1.1	0.37	mg/Kg	☼	07/27/17 12:44	07/28/17 09:05	1
Manganese	500		1.7	0.46	mg/Kg	☼	07/27/17 12:44	07/28/17 09:05	1
Nickel	19		4.5	1.0	mg/Kg	☼	07/27/17 12:44	07/28/17 09:05	1
Selenium	ND		1.1	0.45	mg/Kg	☼	07/27/17 12:44	07/28/17 09:05	1
Silver	ND		0.57	0.19	mg/Kg	☼	07/27/17 12:44	07/28/17 09:05	1
Zinc	64		2.3	1.1	mg/Kg	☼	07/27/17 12:44	07/28/17 09:05	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.022	J	0.034	0.0076	mg/Kg	☼	07/26/17 05:04	07/26/17 09:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	7.9		0.1	0.1	%			07/25/17 15:39	1
Percent Solids	92.1		0.1	0.1	%			07/25/17 15:39	1
Cyanide, Total	0.37	J	0.53	0.16	mg/Kg	☼	07/27/17 11:19	07/27/17 14:56	1

Client Sample ID: TRIP BLANK

Lab Sample ID: 180-68509-22

Date Collected: 07/24/17 00:00
Matrix: Water
Date Received: 07/25/17 09:15

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		5.0	3.1	ug/L			07/26/17 10:33	1
Benzene	ND		1.0	0.18	ug/L			07/26/17 10:33	1
2-Butanone (MEK)	ND		5.0	2.6	ug/L			07/26/17 10:33	1
Carbon tetrachloride	ND		1.0	0.56	ug/L			07/26/17 10:33	1
Chlorobenzene	ND		1.0	0.15	ug/L			07/26/17 10:33	1
Chloroform	ND		1.0	0.27	ug/L			07/26/17 10:33	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			07/26/17 10:33	1
1,2-Dichlorobenzene	ND		1.0	0.23	ug/L			07/26/17 10:33	1
1,3-Dichlorobenzene	ND		1.0	0.21	ug/L			07/26/17 10:33	1
1,4-Dichlorobenzene	ND		1.0	0.24	ug/L			07/26/17 10:33	1
1,1-Dichloroethane	ND		1.0	0.34	ug/L			07/26/17 10:33	1
1,2-Dichloroethane	ND		1.0	0.24	ug/L			07/26/17 10:33	1
1,1-Dichloroethene	ND		1.0	0.32	ug/L			07/26/17 10:33	1
Ethylbenzene	ND		1.0	0.25	ug/L			07/26/17 10:33	1
Methylene Chloride	ND		1.0	0.94	ug/L			07/26/17 10:33	1

Client Sample ID: TRIP BLANK

Lab Sample ID: 180-68509-22
Matrix: Water
Date Collected: 07/24/17 00:00
Date Received: 07/25/17 09:15

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		1.0	0.20	ug/L			07/26/17 10:33	1
n-Butylbenzene	ND		1.0	0.22	ug/L			07/26/17 10:33	1
N-Propylbenzene	ND		1.0	0.20	ug/L			07/26/17 10:33	1
sec-Butylbenzene	ND		1.0	0.22	ug/L			07/26/17 10:33	1
tert-Butylbenzene	ND		1.0	0.17	ug/L			07/26/17 10:33	1
Tetrachloroethene	ND		1.0	0.24	ug/L			07/26/17 10:33	1
Toluene	ND		1.0	0.16	ug/L			07/26/17 10:33	1
trans-1,2-Dichloroethene	ND		1.0	0.20	ug/L			07/26/17 10:33	1
1,1,1-Trichloroethane	ND		1.0	0.27	ug/L			07/26/17 10:33	1
Trichloroethene	ND		1.0	0.20	ug/L			07/26/17 10:33	1
1,2,4-Trimethylbenzene	ND		1.0	0.18	ug/L			07/26/17 10:33	1
1,3,5-Trimethylbenzene	ND		1.0	0.17	ug/L			07/26/17 10:33	1
Vinyl chloride	ND		1.0	0.17	ug/L			07/26/17 10:33	1
Xylenes, Total	ND		2.0	0.27	ug/L			07/26/17 10:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*72 - 120*		*07/26/17 10:33*	*1*
Dibromofluoromethane (Surr)	*90*		*77 - 127*		*07/26/17 10:33*	*1*
1,2-Dichloroethane-d4 (Surr)	*81*		*72 - 134*		*07/26/17 10:33*	*1*
Toluene-d8 (Surr)	*91*		*80 - 120*		*07/26/17 10:33*	*1*

Client Sample ID: DUP 15

Lab Sample ID: 180-68509-23
Matrix: Solid
Date Collected: 07/24/17 00:00
Date Received: 07/25/17 09:15
Percent Solids: 94.1

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.016	0.0025	mg/Kg	☼	07/27/17 05:30	07/27/17 15:05	1
Benzene	ND		0.0039	0.0015	mg/Kg	☼	07/27/17 05:30	07/27/17 15:05	1
2-Butanone (MEK)	ND		0.0039	0.0023	mg/Kg	☼	07/27/17 05:30	07/27/17 15:05	1
Carbon tetrachloride	ND		0.0039	0.0026	mg/Kg	☼	07/27/17 05:30	07/27/17 15:05	1
Chlorobenzene	ND		0.0039	0.0012	mg/Kg	☼	07/27/17 05:30	07/27/17 15:05	1
Chloroform	ND		0.0039	0.0017	mg/Kg	☼	07/27/17 05:30	07/27/17 15:05	1
cis-1,2-Dichloroethene	ND		0.0039	0.0012	mg/Kg	☼	07/27/17 05:30	07/27/17 15:05	1
1,2-Dichlorobenzene	ND		0.0039	0.0032	mg/Kg	☼	07/27/17 05:30	07/27/17 15:05	1
1,3-Dichlorobenzene	ND		0.0039	0.0013	mg/Kg	☼	07/27/17 05:30	07/27/17 15:05	1
1,4-Dichlorobenzene	ND		0.0039	0.00080	mg/Kg	☼	07/27/17 05:30	07/27/17 15:05	1
1,1-Dichloroethane	ND		0.0039	0.0014	mg/Kg	☼	07/27/17 05:30	07/27/17 15:05	1
1,2-Dichloroethane	ND		0.0039	0.0011	mg/Kg	☼	07/27/17 05:30	07/27/17 15:05	1
1,1-Dichloroethene	ND		0.0039	0.0022	mg/Kg	☼	07/27/17 05:30	07/27/17 15:05	1
Ethylbenzene	ND		0.0039	0.0017	mg/Kg	☼	07/27/17 05:30	07/27/17 15:05	1
Methylene Chloride	ND		0.0039	0.0019	mg/Kg	☼	07/27/17 05:30	07/27/17 15:05	1
Methyl tert-butyl ether	ND		0.0039	0.0029	mg/Kg	☼	07/27/17 05:30	07/27/17 15:05	1
n-Butylbenzene	ND		0.0039	0.0030	mg/Kg	☼	07/27/17 05:30	07/27/17 15:05	1
N-Propylbenzene	ND		0.0039	0.0017	mg/Kg	☼	07/27/17 05:30	07/27/17 15:05	1
sec-Butylbenzene	ND		0.0039	0.0019	mg/Kg	☼	07/27/17 05:30	07/27/17 15:05	1
tert-Butylbenzene	ND		0.0039	0.0014	mg/Kg	☼	07/27/17 05:30	07/27/17 15:05	1
Tetrachloroethene	ND		0.0039	0.0016	mg/Kg	☼	07/27/17 05:30	07/27/17 15:05	1
Toluene	ND		0.0039	0.0013	mg/Kg	☼	07/27/17 05:30	07/27/17 15:05	1
trans-1,2-Dichloroethene	ND		0.0039	0.0020	mg/Kg	☼	07/27/17 05:30	07/27/17 15:05	1

Client Sample ID: DUP 15

Lab Sample ID: 180-68509-23
Date Collected: 07/24/17 00:00
Matrix: Solid
Date Received: 07/25/17 09:15
Percent Solids: 94.1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.0039	0.0020	mg/Kg	☼	07/27/17 05:30	07/27/17 15:05	1
Trichloroethene	ND		0.0039	0.0012	mg/Kg	☼	07/27/17 05:30	07/27/17 15:05	1
1,2,4-Trimethylbenzene	ND		0.0039	0.0011	mg/Kg	☼	07/27/17 05:30	07/27/17 15:05	1
1,3,5-Trimethylbenzene	ND		0.0039	0.0014	mg/Kg	☼	07/27/17 05:30	07/27/17 15:05	1
Vinyl chloride	ND		0.0039	0.0029	mg/Kg	☼	07/27/17 05:30	07/27/17 15:05	1
Xylenes, Total	ND		0.0079	0.0034	mg/Kg	☼	07/27/17 05:30	07/27/17 15:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*63 - 120*	*07/27/17 05:30*	*07/27/17 15:05*	*1*
Dibromofluoromethane (Surr)	*104*		*68 - 121*	*07/27/17 05:30*	*07/27/17 15:05*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*52 - 124*	*07/27/17 05:30*	*07/27/17 15:05*	*1*
Toluene-d8 (Surr)	*115*		*72 - 127*	*07/27/17 05:30*	*07/27/17 15:05*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**5.9**		0.1	0.1	%			07/25/17 15:39	1
Percent Solids	**94.1**		0.1	0.1	%			07/25/17 15:39	1

Client Sample ID: DUP 14

Lab Sample ID: 180-68509-24
Date Collected: 07/24/17 00:00
Matrix: Solid
Date Received: 07/25/17 09:15
Percent Solids: 68.7

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.0085**	**J**	0.020	0.0065	mg/Kg	☼	07/27/17 11:21	07/27/17 22:40	2
Acenaphthylene	**0.064**		0.020	0.0066	mg/Kg	☼	07/27/17 11:21	07/27/17 22:40	2
Anthracene	**0.056**		0.020	0.0072	mg/Kg	☼	07/27/17 11:21	07/27/17 22:40	2
Benzo[a]anthracene	**0.13**		0.020	0.0077	mg/Kg	☼	07/27/17 11:21	07/27/17 22:40	2
Benzo[a]pyrene	**0.14**		0.020	0.0080	mg/Kg	☼	07/27/17 11:21	07/27/17 22:40	2
Benzo[b]fluoranthene	**0.19**		0.020	0.0084	mg/Kg	☼	07/27/17 11:21	07/27/17 22:40	2
Benzo[g,h,i]perylene	**0.14**		0.020	0.0084	mg/Kg	☼	07/27/17 11:21	07/27/17 22:40	2
Benzo[k]fluoranthene	**0.058**		0.020	0.0067	mg/Kg	☼	07/27/17 11:21	07/27/17 22:40	2
Chrysene	**0.15**		0.020	0.0076	mg/Kg	☼	07/27/17 11:21	07/27/17 22:40	2
Dibenz(a,h)anthracene	**0.038**		0.020	0.0080	mg/Kg	☼	07/27/17 11:21	07/27/17 22:40	2
Dibenzofuran	**0.0097**	**J**	0.096	0.0078	mg/Kg	☼	07/27/17 11:21	07/27/17 22:40	2
1,4-Dioxane	ND		0.19	0.015	mg/Kg	☼	07/27/17 11:21	07/27/17 22:40	2
Fluoranthene	**0.25**		0.020	0.0077	mg/Kg	☼	07/27/17 11:21	07/27/17 22:40	2
Fluorene	**0.014**	**J**	0.020	0.0069	mg/Kg	☼	07/27/17 11:21	07/27/17 22:40	2
Hexachlorobenzene	ND		0.020	0.0078	mg/Kg	☼	07/27/17 11:21	07/27/17 22:40	2
Indeno[1,2,3-cd]pyrene	**0.13**		0.020	0.0075	mg/Kg	☼	07/27/17 11:21	07/27/17 22:40	2
2-Methylphenol	ND		0.096	0.0086	mg/Kg	☼	07/27/17 11:21	07/27/17 22:40	2
Methylphenol, 3 & 4	**0.016**	**J**	0.096	0.0086	mg/Kg	☼	07/27/17 11:21	07/27/17 22:40	2
Naphthalene	**0.016**	**J**	0.020	0.0070	mg/Kg	☼	07/27/17 11:21	07/27/17 22:40	2
Pentachlorophenol	ND		0.49	0.18	mg/Kg	☼	07/27/17 11:21	07/27/17 22:40	2
Phenanthrene	**0.095**		0.020	0.0081	mg/Kg	☼	07/27/17 11:21	07/27/17 22:40	2
Phenol	ND		0.096	0.013	mg/Kg	☼	07/27/17 11:21	07/27/17 22:40	2
Pyrene	**0.19**		0.020	0.0086	mg/Kg	☼	07/27/17 11:21	07/27/17 22:40	2
Hexachloroethane	ND		96	7.0	ug/Kg	☼	07/27/17 11:21	07/27/17 22:40	2
Nitrobenzene	ND		190	7.4	ug/Kg	☼	07/27/17 11:21	07/27/17 22:40	2
Hexachlorobutadiene	ND		20	6.1	ug/Kg	☼	07/27/17 11:21	07/27/17 22:40	2

Client Sample ID: DUP 14 **Lab Sample ID: 180-68509-24**
Date Collected: 07/24/17 00:00 **Matrix: Solid**
Date Received: 07/25/17 09:15 **Percent Solids: 68.7**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		96	9.2	ug/Kg	☼	07/27/17 11:21	07/27/17 22:40	2
2,4,6-Trichlorophenol	ND		96	8.5	ug/Kg	☼	07/27/17 11:21	07/27/17 22:40	2
2,4-Dinitrotoluene	ND		96	13	ug/Kg	☼	07/27/17 11:21	07/27/17 22:40	2
Pyridine	ND		96	9.3	ug/Kg	☼	07/27/17 11:21	07/27/17 22:40	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*60*		*42 - 100*	*07/27/17 11:21*	*07/27/17 22:40*	*2*
2-Fluorophenol (Surr)	*59*		*21 - 107*	*07/27/17 11:21*	*07/27/17 22:40*	*2*
Nitrobenzene-d5 (Surr)	*54*		*35 - 109*	*07/27/17 11:21*	*07/27/17 22:40*	*2*
Phenol-d5 (Surr)	*58*		*29 - 105*	*07/27/17 11:21*	*07/27/17 22:40*	*2*
Terphenyl-d14 (Surr)	*54*		*36 - 113*	*07/27/17 11:21*	*07/27/17 22:40*	*2*
2,4,6-Tribromophenol (Surr)	*78*		*20 - 134*	*07/27/17 11:21*	*07/27/17 22:40*	*2*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.024	0.013	mg/Kg	☼	07/26/17 08:33	07/27/17 03:36	1
PCB-1221	ND		0.024	0.012	mg/Kg	☼	07/26/17 08:33	07/27/17 03:36	1
PCB-1232	ND		0.024	0.0095	mg/Kg	☼	07/26/17 08:33	07/27/17 03:36	1
PCB-1242	ND		0.024	0.019	mg/Kg	☼	07/26/17 08:33	07/27/17 03:36	1
PCB-1248	**1.5**		0.024	0.011	mg/Kg	☼	07/26/17 08:33	07/27/17 03:36	1
PCB-1254	**0.48**		0.024	0.010	mg/Kg	☼	07/26/17 08:33	07/27/17 03:36	1
PCB-1260	**0.043**		0.024	0.016	mg/Kg	☼	07/26/17 08:33	07/27/17 03:36	1
PCB-1262	ND		0.024	0.017	mg/Kg	☼	07/26/17 08:33	07/27/17 03:36	1
PCB-1268	ND		0.024	0.0073	mg/Kg	☼	07/26/17 08:33	07/27/17 03:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*64*		*23 - 150*	*07/26/17 08:33*	*07/27/17 03:36*	*1*
DCB Decachlorobiphenyl (Surr)	*69*		*23 - 150*	*07/26/17 08:33*	*07/27/17 03:36*	*1*
Tetrachloro-m-xylene (Surr)	*68*		*27 - 138*	*07/26/17 08:33*	*07/27/17 03:36*	*1*
Tetrachloro-m-xylene (Surr)	*62*		*27 - 138*	*07/26/17 08:33*	*07/27/17 03:36*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**7.3**		1.5	0.68	mg/Kg	☼	07/27/17 12:44	07/28/17 09:11	1
Barium	**110**		31	8.3	mg/Kg	☼	07/27/17 12:44	07/28/17 09:11	1
Beryllium	**0.45**	**J**	0.62	0.16	mg/Kg	☼	07/27/17 12:44	07/28/17 09:11	1
Cadmium	**0.29**	**J**	0.77	0.17	mg/Kg	☼	07/27/17 12:44	07/28/17 09:11	1
Chromium	**12**		0.77	0.20	mg/Kg	☼	07/27/17 12:44	07/28/17 09:11	1
Copper	**26**		3.9	1.2	mg/Kg	☼	07/27/17 12:44	07/28/17 09:11	1
Lead	**41**		1.5	0.51	mg/Kg	☼	07/27/17 12:44	07/28/17 09:11	1
Manganese	**490**		2.3	0.63	mg/Kg	☼	07/27/17 12:44	07/28/17 09:11	1
Nickel	**22**		6.2	1.4	mg/Kg	☼	07/27/17 12:44	07/28/17 09:11	1
Selenium	ND		1.5	0.61	mg/Kg	☼	07/27/17 12:44	07/28/17 09:11	1
Silver	ND		0.77	0.26	mg/Kg	☼	07/27/17 12:44	07/28/17 09:11	1
Zinc	**81**		3.1	1.6	mg/Kg	☼	07/27/17 12:44	07/28/17 09:11	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.051**		0.046	0.010	mg/Kg	☼	07/26/17 05:04	07/26/17 09:30	1

Client Sample ID: DUP 14
Date Collected: 07/24/17 00:00
Date Received: 07/25/17 09:15

Lab Sample ID: 180-68509-24
Matrix: Solid
Percent Solids: 68.7

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	31.3		0.1	0.1	%			07/25/17 15:39	1
Percent Solids	68.7		0.1	0.1	%			07/25/17 15:39	1
Cyanide, Total	0.41	J	0.72	0.22	mg/Kg	☼	07/27/17 11:19	07/27/17 14:57	1

Method: 8260C - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 180-218093/6
Matrix: Water
Analysis Batch: 218093

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		5.0	3.1	ug/L			07/26/17 03:21	1
Benzene	ND		1.0	0.18	ug/L			07/26/17 03:21	1
2-Butanone (MEK)	ND		5.0	2.6	ug/L			07/26/17 03:21	1
Carbon tetrachloride	ND		1.0	0.56	ug/L			07/26/17 03:21	1
Chlorobenzene	ND		1.0	0.15	ug/L			07/26/17 03:21	1
Chloroform	ND		1.0	0.27	ug/L			07/26/17 03:21	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			07/26/17 03:21	1
1,2-Dichlorobenzene	ND		1.0	0.23	ug/L			07/26/17 03:21	1
1,3-Dichlorobenzene	ND		1.0	0.21	ug/L			07/26/17 03:21	1
1,4-Dichlorobenzene	ND		1.0	0.24	ug/L			07/26/17 03:21	1
1,1-Dichloroethane	ND		1.0	0.34	ug/L			07/26/17 03:21	1
1,2-Dichloroethane	ND		1.0	0.24	ug/L			07/26/17 03:21	1
1,1-Dichloroethene	ND		1.0	0.32	ug/L			07/26/17 03:21	1
Ethylbenzene	ND		1.0	0.25	ug/L			07/26/17 03:21	1
Methylene Chloride	ND		1.0	0.94	ug/L			07/26/17 03:21	1
Methyl tert-butyl ether	ND		1.0	0.20	ug/L			07/26/17 03:21	1
n-Butylbenzene	ND		1.0	0.22	ug/L			07/26/17 03:21	1
N-Propylbenzene	ND		1.0	0.20	ug/L			07/26/17 03:21	1
sec-Butylbenzene	ND		1.0	0.22	ug/L			07/26/17 03:21	1
tert-Butylbenzene	ND		1.0	0.17	ug/L			07/26/17 03:21	1
Tetrachloroethene	ND		1.0	0.24	ug/L			07/26/17 03:21	1
Toluene	ND		1.0	0.16	ug/L			07/26/17 03:21	1
trans-1,2-Dichloroethene	ND		1.0	0.20	ug/L			07/26/17 03:21	1
1,1,1-Trichloroethane	ND		1.0	0.27	ug/L			07/26/17 03:21	1
Trichloroethene	ND		1.0	0.20	ug/L			07/26/17 03:21	1
1,2,4-Trimethylbenzene	ND		1.0	0.18	ug/L			07/26/17 03:21	1
1,3,5-Trimethylbenzene	ND		1.0	0.17	ug/L			07/26/17 03:21	1
Vinyl chloride	ND		1.0	0.17	ug/L			07/26/17 03:21	1
Xylenes, Total	ND		2.0	0.27	ug/L			07/26/17 03:21	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*72 - 120*		*07/26/17 03:21*	*1*
Dibromofluoromethane (Surr)	*91*		*77 - 127*		*07/26/17 03:21*	*1*
1,2-Dichloroethane-d4 (Surr)	*86*		*72 - 134*		*07/26/17 03:21*	*1*
Toluene-d8 (Surr)	*92*		*80 - 120*		*07/26/17 03:21*	*1*

Lab Sample ID: LCS 180-218093/3
Matrix: Water
Analysis Batch: 218093

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	20.0	22.3		ug/L		111	10 - 150
Benzene	10.0	10.7		ug/L		107	80 - 121
2-Butanone (MEK)	20.0	21.1		ug/L		105	41 - 150
Carbon tetrachloride	10.0	10.6		ug/L		106	59 - 145
Chlorobenzene	10.0	10.8		ug/L		108	80 - 120
Chloroform	10.0	10.6		ug/L		106	78 - 122
cis-1,2-Dichloroethene	10.0	10.2		ug/L		102	80 - 120

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 180-218093/3
Matrix: Water
Analysis Batch: 218093

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichlorobenzene	10.0	10.5		ug/L		105	80 - 120
1,3-Dichlorobenzene	10.0	10.4		ug/L		104	80 - 120
1,4-Dichlorobenzene	10.0	10.4		ug/L		104	80 - 120
1,1-Dichloroethane	10.0	10.5		ug/L		105	76 - 126
1,2-Dichloroethane	10.0	9.61		ug/L		96	72 - 126
1,1-Dichloroethene	10.0	11.0		ug/L		110	71 - 122
Ethylbenzene	10.0	11.1		ug/L		111	80 - 123
Methylene Chloride	10.0	9.52		ug/L		95	71 - 129
Methyl tert-butyl ether	10.0	9.79		ug/L		98	68 - 124
n-Butylbenzene	10.0	11.9		ug/L		119	75 - 120
N-Propylbenzene	10.0	10.4		ug/L		104	78 - 121
sec-Butylbenzene	10.0	11.6		ug/L		116	80 - 121
tert-Butylbenzene	10.0	11.3		ug/L		113	79 - 120
Tetrachloroethene	10.0	10.7		ug/L		107	80 - 122
Toluene	10.0	11.2		ug/L		112	80 - 125
trans-1,2-Dichloroethene	10.0	10.6		ug/L		106	80 - 121
1,1,1-Trichloroethane	10.0	10.2		ug/L		102	57 - 128
Trichloroethene	10.0	10.1		ug/L		101	79 - 120
1,2,4-Trimethylbenzene	10.0	11.3		ug/L		113	80 - 120
1,3,5-Trimethylbenzene	10.0	11.3		ug/L		113	80 - 122
Vinyl chloride	10.0	10.8		ug/L		108	61 - 138
Xylenes, Total	20.0	22.4		ug/L		112	80 - 123

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*107*		*72 - 120*
Dibromofluoromethane (Surr)	*102*		*77 - 127*
1,2-Dichloroethane-d4 (Surr)	*94*		*72 - 134*
Toluene-d8 (Surr)	*115*		*80 - 120*

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 180-218103/7
Matrix: Solid
Analysis Batch: 218103

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.020	0.0032	mg/Kg			07/26/17 09:00	1
Benzene	ND		0.0050	0.0020	mg/Kg			07/26/17 09:00	1
2-Butanone (MEK)	ND		0.0050	0.0029	mg/Kg			07/26/17 09:00	1
Carbon tetrachloride	ND		0.0050	0.0033	mg/Kg			07/26/17 09:00	1
Chlorobenzene	ND		0.0050	0.0016	mg/Kg			07/26/17 09:00	1
Chloroform	ND		0.0050	0.0021	mg/Kg			07/26/17 09:00	1
cis-1,2-Dichloroethene	ND		0.0050	0.0016	mg/Kg			07/26/17 09:00	1
1,2-Dichlorobenzene	ND		0.0050	0.0040	mg/Kg			07/26/17 09:00	1
1,3-Dichlorobenzene	ND		0.0050	0.0016	mg/Kg			07/26/17 09:00	1
1,4-Dichlorobenzene	ND		0.0050	0.0010	mg/Kg			07/26/17 09:00	1
1,1-Dichloroethane	ND		0.0050	0.0018	mg/Kg			07/26/17 09:00	1
1,2-Dichloroethane	ND		0.0050	0.0015	mg/Kg			07/26/17 09:00	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 180-218103/7
Matrix: Solid
Analysis Batch: 218103

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		0.0050	0.0029	mg/Kg			07/26/17 09:00	1
Ethylbenzene	ND		0.0050	0.0022	mg/Kg			07/26/17 09:00	1
Methylene Chloride	ND		0.0050	0.0024	mg/Kg			07/26/17 09:00	1
Methyl tert-butyl ether	ND		0.0050	0.0037	mg/Kg			07/26/17 09:00	1
n-Butylbenzene	ND		0.0050	0.0038	mg/Kg			07/26/17 09:00	1
N-Propylbenzene	ND		0.0050	0.0021	mg/Kg			07/26/17 09:00	1
sec-Butylbenzene	ND		0.0050	0.0024	mg/Kg			07/26/17 09:00	1
tert-Butylbenzene	ND		0.0050	0.0018	mg/Kg			07/26/17 09:00	1
Tetrachloroethene	ND		0.0050	0.0020	mg/Kg			07/26/17 09:00	1
Toluene	ND		0.0050	0.0017	mg/Kg			07/26/17 09:00	1
trans-1,2-Dichloroethene	ND		0.0050	0.0025	mg/Kg			07/26/17 09:00	1
1,1,1-Trichloroethane	ND		0.0050	0.0025	mg/Kg			07/26/17 09:00	1
Trichloroethene	ND		0.0050	0.0015	mg/Kg			07/26/17 09:00	1
1,2,4-Trimethylbenzene	ND		0.0050	0.0013	mg/Kg			07/26/17 09:00	1
1,3,5-Trimethylbenzene	ND		0.0050	0.0017	mg/Kg			07/26/17 09:00	1
Vinyl chloride	ND		0.0050	0.0037	mg/Kg			07/26/17 09:00	1
Xylenes, Total	ND		0.010	0.0043	mg/Kg			07/26/17 09:00	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*63 - 120*		*07/26/17 09:00*	*1*
Dibromofluoromethane (Surr)	*104*		*68 - 121*		*07/26/17 09:00*	*1*
1,2-Dichloroethane-d4 (Surr)	*107*		*52 - 124*		*07/26/17 09:00*	*1*
Toluene-d8 (Surr)	*104*		*72 - 127*		*07/26/17 09:00*	*1*

Lab Sample ID: LCS 180-218103/3
Matrix: Solid
Analysis Batch: 218103

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0400	0.0408		mg/Kg		102	20 - 150
Benzene	0.0400	0.0414		mg/Kg		103	77 - 120
2-Butanone (MEK)	0.0400	0.0400		mg/Kg		100	35 - 149
Carbon tetrachloride	0.0400	0.0451		mg/Kg		113	69 - 122
Chlorobenzene	0.0400	0.0411		mg/Kg		103	79 - 120
Chloroform	0.0400	0.0425		mg/Kg		106	72 - 120
cis-1,2-Dichloroethene	0.0400	0.0421		mg/Kg		105	80 - 118
1,2-Dichlorobenzene	0.0400	0.0420		mg/Kg		105	71 - 124
1,3-Dichlorobenzene	0.0400	0.0426		mg/Kg		106	75 - 118
1,4-Dichlorobenzene	0.0400	0.0423		mg/Kg		106	77 - 116
1,1-Dichloroethane	0.0400	0.0426		mg/Kg		106	66 - 124
1,2-Dichloroethane	0.0400	0.0413		mg/Kg		103	61 - 127
1,1-Dichloroethene	0.0400	0.0417		mg/Kg		104	59 - 129
Ethylbenzene	0.0400	0.0420		mg/Kg		105	78 - 125
Methylene Chloride	0.0400	0.0414		mg/Kg		104	58 - 127
Methyl tert-butyl ether	0.0400	0.0424		mg/Kg		106	48 - 132
n-Butylbenzene	0.0400	0.0455		mg/Kg		114	59 - 145
N-Propylbenzene	0.0400	0.0433		mg/Kg		108	80 - 120
sec-Butylbenzene	0.0400	0.0452		mg/Kg		113	70 - 130

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 180-218103/3
Matrix: Solid
Analysis Batch: 218103

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
tert-Butylbenzene	0.0400	0.0440		mg/Kg		110	74 - 133
Tetrachloroethene	0.0400	0.0424		mg/Kg		106	78 - 129
Toluene	0.0400	0.0419		mg/Kg		105	78 - 124
trans-1,2-Dichloroethene	0.0400	0.0427		mg/Kg		107	77 - 121
1,1,1-Trichloroethane	0.0400	0.0463		mg/Kg		116	67 - 126
Trichloroethene	0.0400	0.0414		mg/Kg		104	76 - 119
1,2,4-Trimethylbenzene	0.0400	0.0434		mg/Kg		108	80 - 121
1,3,5-Trimethylbenzene	0.0400	0.0437		mg/Kg		109	68 - 133
Vinyl chloride	0.0400	0.0421		mg/Kg		105	63 - 124
Xylenes, Total	0.0800	0.0843		mg/Kg		105	83 - 126

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*63 - 120*
Dibromofluoromethane (Surr)	*102*		*68 - 121*
1,2-Dichloroethane-d4 (Surr)	*100*		*52 - 124*
Toluene-d8 (Surr)	*100*		*72 - 127*

Lab Sample ID: MB 180-218225/7
Matrix: Solid
Analysis Batch: 218225

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.020	0.0032	mg/Kg			07/27/17 08:40	1
Benzene	ND		0.0050	0.0020	mg/Kg			07/27/17 08:40	1
2-Butanone (MEK)	ND		0.0050	0.0029	mg/Kg			07/27/17 08:40	1
Carbon tetrachloride	ND		0.0050	0.0033	mg/Kg			07/27/17 08:40	1
Chlorobenzene	ND		0.0050	0.0016	mg/Kg			07/27/17 08:40	1
Chloroform	ND		0.0050	0.0021	mg/Kg			07/27/17 08:40	1
cis-1,2-Dichloroethene	ND		0.0050	0.0016	mg/Kg			07/27/17 08:40	1
1,2-Dichlorobenzene	ND		0.0050	0.0040	mg/Kg			07/27/17 08:40	1
1,3-Dichlorobenzene	ND		0.0050	0.0016	mg/Kg			07/27/17 08:40	1
1,4-Dichlorobenzene	ND		0.0050	0.0010	mg/Kg			07/27/17 08:40	1
1,1-Dichloroethane	ND		0.0050	0.0018	mg/Kg			07/27/17 08:40	1
1,2-Dichloroethane	ND		0.0050	0.0015	mg/Kg			07/27/17 08:40	1
1,1-Dichloroethene	ND		0.0050	0.0029	mg/Kg			07/27/17 08:40	1
Ethylbenzene	ND		0.0050	0.0022	mg/Kg			07/27/17 08:40	1
Methylene Chloride	ND		0.0050	0.0024	mg/Kg			07/27/17 08:40	1
Methyl tert-butyl ether	ND		0.0050	0.0037	mg/Kg			07/27/17 08:40	1
n-Butylbenzene	ND		0.0050	0.0038	mg/Kg			07/27/17 08:40	1
N-Propylbenzene	ND		0.0050	0.0021	mg/Kg			07/27/17 08:40	1
sec-Butylbenzene	ND		0.0050	0.0024	mg/Kg			07/27/17 08:40	1
tert-Butylbenzene	ND		0.0050	0.0018	mg/Kg			07/27/17 08:40	1
Tetrachloroethene	ND		0.0050	0.0020	mg/Kg			07/27/17 08:40	1
Toluene	ND		0.0050	0.0017	mg/Kg			07/27/17 08:40	1
trans-1,2-Dichloroethene	ND		0.0050	0.0025	mg/Kg			07/27/17 08:40	1
1,1,1-Trichloroethane	ND		0.0050	0.0025	mg/Kg			07/27/17 08:40	1
Trichloroethene	ND		0.0050	0.0015	mg/Kg			07/27/17 08:40	1
1,2,4-Trimethylbenzene	ND		0.0050	0.0013	mg/Kg			07/27/17 08:40	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 180-218225/7
Matrix: Solid
Analysis Batch: 218225

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	ND		0.0050	0.0017	mg/Kg			07/27/17 08:40	1
Vinyl chloride	ND		0.0050	0.0037	mg/Kg			07/27/17 08:40	1
Xylenes, Total	ND		0.010	0.0043	mg/Kg			07/27/17 08:40	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*63 - 120*		*07/27/17 08:40*	*1*
Dibromofluoromethane (Surr)	*102*		*68 - 121*		*07/27/17 08:40*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*52 - 124*		*07/27/17 08:40*	*1*
Toluene-d8 (Surr)	*103*		*72 - 127*		*07/27/17 08:40*	*1*

Lab Sample ID: LCS 180-218225/3
Matrix: Solid
Analysis Batch: 218225

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0400	0.0431		mg/Kg		108	20 - 150
Benzene	0.0400	0.0402		mg/Kg		101	77 - 120
2-Butanone (MEK)	0.0400	0.0413		mg/Kg		103	35 - 149
Carbon tetrachloride	0.0400	0.0433		mg/Kg		108	69 - 122
Chlorobenzene	0.0400	0.0395		mg/Kg		99	79 - 120
Chloroform	0.0400	0.0421		mg/Kg		105	72 - 120
cis-1,2-Dichloroethene	0.0400	0.0414		mg/Kg		103	80 - 118
1,2-Dichlorobenzene	0.0400	0.0399		mg/Kg		100	71 - 124
1,3-Dichlorobenzene	0.0400	0.0403		mg/Kg		101	75 - 118
1,4-Dichlorobenzene	0.0400	0.0405		mg/Kg		101	77 - 116
1,1-Dichloroethane	0.0400	0.0420		mg/Kg		105	66 - 124
1,2-Dichloroethane	0.0400	0.0407		mg/Kg		102	61 - 127
1,1-Dichloroethene	0.0400	0.0425		mg/Kg		106	59 - 129
Ethylbenzene	0.0400	0.0400		mg/Kg		100	78 - 125
Methylene Chloride	0.0400	0.0417		mg/Kg		104	58 - 127
Methyl tert-butyl ether	0.0400	0.0425		mg/Kg		106	48 - 132
n-Butylbenzene	0.0400	0.0447		mg/Kg		112	59 - 145
N-Propylbenzene	0.0400	0.0419		mg/Kg		105	80 - 120
sec-Butylbenzene	0.0400	0.0436		mg/Kg		109	70 - 130
tert-Butylbenzene	0.0400	0.0424		mg/Kg		106	74 - 133
Tetrachloroethene	0.0400	0.0388		mg/Kg		97	78 - 129
Toluene	0.0400	0.0390		mg/Kg		98	78 - 124
trans-1,2-Dichloroethene	0.0400	0.0425		mg/Kg		106	77 - 121
1,1,1-Trichloroethane	0.0400	0.0441		mg/Kg		110	67 - 126
Trichloroethene	0.0400	0.0399		mg/Kg		100	76 - 119
1,2,4-Trimethylbenzene	0.0400	0.0423		mg/Kg		106	80 - 121
1,3,5-Trimethylbenzene	0.0400	0.0422		mg/Kg		106	68 - 133
Vinyl chloride	0.0400	0.0405		mg/Kg		101	63 - 124
Xylenes, Total	0.0800	0.0797		mg/Kg		100	83 - 126

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*63 - 120*

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 180-218225/3
Matrix: Solid
Analysis Batch: 218225

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Dibromofluoromethane (Surr)	*102*		*68 - 121*
1,2-Dichloroethane-d4 (Surr)	*102*		*52 - 124*
Toluene-d8 (Surr)	*99*		*72 - 127*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Lab Sample ID: MB 180-218278/1-A
Matrix: Solid
Analysis Batch: 218265

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 218278

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0067	0.0022	mg/Kg		07/27/17 11:20	07/27/17 17:17	1
Acenaphthylene	ND		0.0067	0.0023	mg/Kg		07/27/17 11:20	07/27/17 17:17	1
Anthracene	ND		0.0067	0.0025	mg/Kg		07/27/17 11:20	07/27/17 17:17	1
Benzo[a]anthracene	ND		0.0067	0.0026	mg/Kg		07/27/17 11:20	07/27/17 17:17	1
Benzo[a]pyrene	ND		0.0067	0.0028	mg/Kg		07/27/17 11:20	07/27/17 17:17	1
Benzo[b]fluoranthene	ND		0.0067	0.0029	mg/Kg		07/27/17 11:20	07/27/17 17:17	1
Benzo[g,h,i]perylene	ND		0.0067	0.0029	mg/Kg		07/27/17 11:20	07/27/17 17:17	1
Benzo[k]fluoranthene	ND		0.0067	0.0023	mg/Kg		07/27/17 11:20	07/27/17 17:17	1
Chrysene	ND		0.0067	0.0026	mg/Kg		07/27/17 11:20	07/27/17 17:17	1
Dibenz(a,h)anthracene	ND		0.0067	0.0028	mg/Kg		07/27/17 11:20	07/27/17 17:17	1
Dibenzofuran	ND		0.033	0.0027	mg/Kg		07/27/17 11:20	07/27/17 17:17	1
1,4-Dioxane	ND		0.067	0.0050	mg/Kg		07/27/17 11:20	07/27/17 17:17	1
Fluoranthene	ND		0.0067	0.0026	mg/Kg		07/27/17 11:20	07/27/17 17:17	1
Fluorene	ND		0.0067	0.0024	mg/Kg		07/27/17 11:20	07/27/17 17:17	1
Hexachlorobenzene	ND		0.0067	0.0027	mg/Kg		07/27/17 11:20	07/27/17 17:17	1
Indeno[1,2,3-cd]pyrene	ND		0.0067	0.0026	mg/Kg		07/27/17 11:20	07/27/17 17:17	1
2-Methylphenol	ND		0.033	0.0029	mg/Kg		07/27/17 11:20	07/27/17 17:17	1
Methylphenol, 3 & 4	ND		0.033	0.0030	mg/Kg		07/27/17 11:20	07/27/17 17:17	1
Naphthalene	ND		0.0067	0.0024	mg/Kg		07/27/17 11:20	07/27/17 17:17	1
Pentachlorophenol	ND		0.17	0.063	mg/Kg		07/27/17 11:20	07/27/17 17:17	1
Phenanthrene	ND		0.0067	0.0028	mg/Kg		07/27/17 11:20	07/27/17 17:17	1
Phenol	ND		0.033	0.0045	mg/Kg		07/27/17 11:20	07/27/17 17:17	1
Pyrene	ND		0.0067	0.0030	mg/Kg		07/27/17 11:20	07/27/17 17:17	1
Hexachloroethane	ND		33	2.4	ug/Kg		07/27/17 11:20	07/27/17 17:17	1
Nitrobenzene	ND		67	2.5	ug/Kg		07/27/17 11:20	07/27/17 17:17	1
Hexachlorobutadiene	ND		6.7	2.1	ug/Kg		07/27/17 11:20	07/27/17 17:17	1
2,4,5-Trichlorophenol	ND		33	3.2	ug/Kg		07/27/17 11:20	07/27/17 17:17	1
2,4,6-Trichlorophenol	ND		33	2.9	ug/Kg		07/27/17 11:20	07/27/17 17:17	1
2,4-Dinitrotoluene	ND		33	4.4	ug/Kg		07/27/17 11:20	07/27/17 17:17	1
Pyridine	ND		33	3.2	ug/Kg		07/27/17 11:20	07/27/17 17:17	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	*54*		*42 - 100*	*07/27/17 11:20*	*07/27/17 17:17*	*1*
2-Fluorophenol (Surr)	*57*		*21 - 107*	*07/27/17 11:20*	*07/27/17 17:17*	*1*
Nitrobenzene-d5 (Surr)	*50*		*35 - 109*	*07/27/17 11:20*	*07/27/17 17:17*	*1*
Phenol-d5 (Surr)	*53*		*29 - 105*	*07/27/17 11:20*	*07/27/17 17:17*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: MB 180-218278/1-A
Matrix: Solid
Analysis Batch: 218265

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 218278

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14 (Surr)	*54*		*36 - 113*	*07/27/17 11:20*	*07/27/17 17:17*	*1*
2,4,6-Tribromophenol (Surr)	*66*		*20 - 134*	*07/27/17 11:20*	*07/27/17 17:17*	*1*

Lab Sample ID: LCS 180-218278/2-A
Matrix: Solid
Analysis Batch: 218265

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 218278

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	0.667	0.341		mg/Kg		51	39 - 100
Acenaphthylene	0.667	0.351		mg/Kg		53	42 - 100
Anthracene	0.667	0.364		mg/Kg		55	43 - 100
Benzo[a]anthracene	0.667	0.369		mg/Kg		55	43 - 100
Benzo[a]pyrene	0.667	0.374		mg/Kg		56	43 - 100
Benzo[b]fluoranthene	0.667	0.350		mg/Kg		53	40 - 100
Benzo[g,h,i]perylene	0.667	0.422		mg/Kg		63	41 - 102
Benzo[k]fluoranthene	0.667	0.346		mg/Kg		52	44 - 100
Chrysene	0.667	0.390		mg/Kg		58	44 - 100
Dibenz(a,h)anthracene	0.667	0.414		mg/Kg		62	40 - 104
Dibenzofuran	0.667	0.380		mg/Kg		57	42 - 100
1,4-Dioxane	0.667	0.404		mg/Kg		61	19 - 107
Fluoranthene	0.667	0.404		mg/Kg		61	41 - 104
Fluorene	0.667	0.374		mg/Kg		56	41 - 100
Hexachlorobenzene	0.667	0.383		mg/Kg		57	43 - 100
Indeno[1,2,3-cd]pyrene	0.667	0.413		mg/Kg		62	41 - 104
2-Methylphenol	0.667	0.369		mg/Kg		55	38 - 100
Methylphenol, 3 & 4	0.667	0.373		mg/Kg		56	40 - 100
Naphthalene	0.667	0.351		mg/Kg		53	38 - 100
Pentachlorophenol	1.33	0.723		mg/Kg		54	34 - 102
Phenanthrene	0.667	0.355		mg/Kg		53	41 - 100
Phenol	0.667	0.357		mg/Kg		54	36 - 100
Pyrene	0.667	0.352		mg/Kg		53	42 - 100
Hexachloroethane	667	364		ug/Kg		55	35 - 100
Nitrobenzene	667	310		ug/Kg		47	34 - 100
Hexachlorobutadiene	667	425		ug/Kg		64	35 - 100
2,4,5-Trichlorophenol	667	387		ug/Kg		58	42 - 100
2,4,6-Trichlorophenol	667	380		ug/Kg		57	41 - 103
2,4-Dinitrotoluene	667	437		ug/Kg		66	42 - 110
Pyridine	1330	863		ug/Kg		65	25 - 119

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	*48*		*42 - 100*
2-Fluorophenol (Surr)	*58*		*21 - 107*
Nitrobenzene-d5 (Surr)	*45*		*35 - 109*
Phenol-d5 (Surr)	*54*		*29 - 105*
Terphenyl-d14 (Surr)	*54*		*36 - 113*
2,4,6-Tribromophenol (Surr)	*63*		*20 - 134*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 180-218112/1-C
Matrix: Solid
Analysis Batch: 218100

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 218112

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.017	0.0088	mg/Kg		07/26/17 06:50	07/26/17 22:20	1
PCB-1221	ND		0.017	0.0086	mg/Kg		07/26/17 06:50	07/26/17 22:20	1
PCB-1232	ND		0.017	0.0066	mg/Kg		07/26/17 06:50	07/26/17 22:20	1
PCB-1242	ND		0.017	0.013	mg/Kg		07/26/17 06:50	07/26/17 22:20	1
PCB-1248	ND		0.017	0.0080	mg/Kg		07/26/17 06:50	07/26/17 22:20	1
PCB-1254	ND		0.017	0.0073	mg/Kg		07/26/17 06:50	07/26/17 22:20	1
PCB-1260	ND		0.017	0.011	mg/Kg		07/26/17 06:50	07/26/17 22:20	1
PCB-1262	ND		0.017	0.012	mg/Kg		07/26/17 06:50	07/26/17 22:20	1
PCB-1268	ND		0.017	0.0051	mg/Kg		07/26/17 06:50	07/26/17 22:20	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*75*		*23 - 150*	*07/26/17 06:50*	*07/26/17 22:20*	*1*
DCB Decachlorobiphenyl (Surr)	*80*		*23 - 150*	*07/26/17 06:50*	*07/26/17 22:20*	*1*
Tetrachloro-m-xylene (Surr)	*77*		*27 - 138*	*07/26/17 06:50*	*07/26/17 22:20*	*1*
Tetrachloro-m-xylene (Surr)	*80*		*27 - 138*	*07/26/17 06:50*	*07/26/17 22:20*	*1*

Lab Sample ID: LCS 180-218112/2-C
Matrix: Solid
Analysis Batch: 218100

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 218112

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			1.33	1.07		mg/Kg		81	52 - 126		
PCB-1260			1.33	1.03		mg/Kg		77	50 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*77*		*23 - 150*
DCB Decachlorobiphenyl (Surr)	*82*		*23 - 150*
Tetrachloro-m-xylene (Surr)	*78*		*27 - 138*
Tetrachloro-m-xylene (Surr)	*82*		*27 - 138*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 180-218293/1-A
Matrix: Solid
Analysis Batch: 218421

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 218293

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		1.0	0.44	mg/Kg		07/27/17 12:44	07/28/17 08:35	1
Barium	ND		20	5.4	mg/Kg		07/27/17 12:44	07/28/17 08:35	1
Beryllium	ND		0.40	0.10	mg/Kg		07/27/17 12:44	07/28/17 08:35	1
Cadmium	ND		0.50	0.11	mg/Kg		07/27/17 12:44	07/28/17 08:35	1
Chromium	ND		0.50	0.13	mg/Kg		07/27/17 12:44	07/28/17 08:35	1
Copper	ND		2.5	0.77	mg/Kg		07/27/17 12:44	07/28/17 08:35	1
Lead	ND		1.0	0.33	mg/Kg		07/27/17 12:44	07/28/17 08:35	1
Manganese	ND		1.5	0.41	mg/Kg		07/27/17 12:44	07/28/17 08:35	1
Nickel	ND		4.0	0.90	mg/Kg		07/27/17 12:44	07/28/17 08:35	1
Selenium	ND		1.0	0.40	mg/Kg		07/27/17 12:44	07/28/17 08:35	1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: MB 180-218293/1-A
Matrix: Solid
Analysis Batch: 218421

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 218293

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.50	0.17	mg/Kg		07/27/17 12:44	07/28/17 08:35	1
Zinc	ND		2.0	1.0	mg/Kg		07/27/17 12:44	07/28/17 08:35	1

Lab Sample ID: LCS 180-218293/2-A
Matrix: Solid
Analysis Batch: 218421

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 218293

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	50.0	51.2		mg/Kg		102	80 - 120
Barium	200	202		mg/Kg		101	80 - 120
Beryllium	5.00	5.06		mg/Kg		101	80 - 120
Cadmium	5.00	5.12		mg/Kg		102	80 - 120
Chromium	20.0	19.2		mg/Kg		96	80 - 120
Copper	25.0	24.7		mg/Kg		99	80 - 120
Lead	50.0	48.3		mg/Kg		97	80 - 120
Manganese	50.0	49.9		mg/Kg		100	80 - 120
Nickel	50.0	50.7		mg/Kg		101	80 - 120
Selenium	50.0	49.9		mg/Kg		100	80 - 120
Silver	5.00	4.95		mg/Kg		99	80 - 120
Zinc	50.0	49.5		mg/Kg		99	80 - 120

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 180-218097/1-A
Matrix: Solid
Analysis Batch: 218142

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 218097

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.033	0.0074	mg/Kg		07/26/17 05:04	07/26/17 09:09	1

Lab Sample ID: LCS 180-218097/2-A
Matrix: Solid
Analysis Batch: 218142

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 218097

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.417	0.469		mg/Kg		112	80 - 120

Lab Sample ID: LCSD 180-218097/3-A
Matrix: Solid
Analysis Batch: 218142

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 218097

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.417	0.444		mg/Kg		107	80 - 120	5	20

Method: 2540G - SM 2540G

Lab Sample ID: 180-68509-3 DU
Matrix: Solid
Analysis Batch: 218069

Client Sample ID: WB 7-8, S1, C 072417
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	26.7		22.7		%		16	20
Percent Solids	73.3		77.3		%		5	20

Lab Sample ID: 180-68509-9 DU
Matrix: Solid
Analysis Batch: 218069

Client Sample ID: WB 7-8, S3, C 072417
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	22.3		26.7		%		18	20
Percent Solids	77.7		73.3		%		6	20

Method: 9014 - Cyanide

Lab Sample ID: MB 180-218282/4-A
Matrix: Solid
Analysis Batch: 218335

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 218282

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.50	0.15	mg/Kg		07/27/17 11:19	07/27/17 14:28	1

Lab Sample ID: HLCS 180-218282/2-A
Matrix: Solid
Analysis Batch: 218335

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 218282

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.250	0.236		mg/Kg		94	90 - 110

Lab Sample ID: LCS 180-218282/3-A
Matrix: Solid
Analysis Batch: 218335

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 218282

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	163	117		mg/Kg		72	38 - 162

Lab Sample ID: LLCS 180-218282/1-A
Matrix: Solid
Analysis Batch: 218335

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 218282

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.0500	0.0497		mg/Kg		99	90 - 110

GC/MS VOA

Analysis Batch: 218093

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68509-22	TRIP BLANK	Total/NA	Water	8260C	
MB 180-218093/6	Method Blank	Total/NA	Water	8260C	
LCS 180-218093/3	Lab Control Sample	Total/NA	Water	8260C	

Analysis Batch: 218103

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68509-1	WB 7-8, S1, A 072417	Total/NA	Solid	8260C	218110
180-68509-2	WB 7-8, S1, B 072417	Total/NA	Solid	8260C	218110
180-68509-4	WB 7-8, S2, A 072417	Total/NA	Solid	8260C	218110
MB 180-218103/7	Method Blank	Total/NA	Solid	8260C	
LCS 180-218103/3	Lab Control Sample	Total/NA	Solid	8260C	

Prep Batch: 218110

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68509-1	WB 7-8, S1, A 072417	Total/NA	Solid	5035	
180-68509-2	WB 7-8, S1, B 072417	Total/NA	Solid	5035	
180-68509-4	WB 7-8, S2, A 072417	Total/NA	Solid	5035	

Analysis Batch: 218225

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68509-5	WB 7-8, S2, B 072417	Total/NA	Solid	8260C	218236
180-68509-7	WB 7-8, S3, A 072417	Total/NA	Solid	8260C	218236
180-68509-8	WB 7-8, S3, B 072417	Total/NA	Solid	8260C	218236
180-68509-10	WB 7-8, S4, A 072417	Total/NA	Solid	8260C	218236
180-68509-11	WB 7-8, S4, B 072417	Total/NA	Solid	8260C	218236
180-68509-13	W9, S1, A 072417	Total/NA	Solid	8260C	218236
180-68509-14	W9, S1, B 072417	Total/NA	Solid	8260C	218236
180-68509-23	DUP 15	Total/NA	Solid	8260C	218236
MB 180-218225/7	Method Blank	Total/NA	Solid	8260C	
LCS 180-218225/3	Lab Control Sample	Total/NA	Solid	8260C	

Prep Batch: 218236

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68509-5	WB 7-8, S2, B 072417	Total/NA	Solid	5035	
180-68509-7	WB 7-8, S3, A 072417	Total/NA	Solid	5035	
180-68509-8	WB 7-8, S3, B 072417	Total/NA	Solid	5035	
180-68509-10	WB 7-8, S4, A 072417	Total/NA	Solid	5035	
180-68509-11	WB 7-8, S4, B 072417	Total/NA	Solid	5035	
180-68509-13	W9, S1, A 072417	Total/NA	Solid	5035	
180-68509-14	W9, S1, B 072417	Total/NA	Solid	5035	
180-68509-23	DUP 15	Total/NA	Solid	5035	

GC/MS Semi VOA

Analysis Batch: 218265

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68509-3	WB 7-8, S1, C 072417	Total/NA	Solid	8270D LL	218278
180-68509-6	WB 7-8, S2, C 072417	Total/NA	Solid	8270D LL	218278
180-68509-9	WB 7-8, S3, C 072417	Total/NA	Solid	8270D LL	218278
180-68509-12	WB 7-8, S4, C 072417	Total/NA	Solid	8270D LL	218278

GC/MS Semi VOA (Continued)

Analysis Batch: 218265 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68509-15	W9, S1, C 072417	Total/NA	Solid	8270D LL	218278
180-68509-24	DUP 14	Total/NA	Solid	8270D LL	218278
MB 180-218278/1-A	Method Blank	Total/NA	Solid	8270D LL	218278
LCS 180-218278/2-A	Lab Control Sample	Total/NA	Solid	8270D LL	218278

Prep Batch: 218278

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68509-3	WB 7-8, S1, C 072417	Total/NA	Solid	3541	
180-68509-6	WB 7-8, S2, C 072417	Total/NA	Solid	3541	
180-68509-9	WB 7-8, S3, C 072417	Total/NA	Solid	3541	
180-68509-12	WB 7-8, S4, C 072417	Total/NA	Solid	3541	
180-68509-15	W9, S1, C 072417	Total/NA	Solid	3541	
180-68509-24	DUP 14	Total/NA	Solid	3541	
MB 180-218278/1-A	Method Blank	Total/NA	Solid	3541	
LCS 180-218278/2-A	Lab Control Sample	Total/NA	Solid	3541	

GC Semi VOA

Analysis Batch: 218100

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68509-3	WB 7-8, S1, C 072417	Total/NA	Solid	8082A	218178
180-68509-6	WB 7-8, S2, C 072417	Total/NA	Solid	8082A	218178
180-68509-9	WB 7-8, S3, C 072417	Total/NA	Solid	8082A	218178
180-68509-12	WB 7-8, S4, C 072417	Total/NA	Solid	8082A	218178
180-68509-15	W9, S1, C 072417	Total/NA	Solid	8082A	218178
180-68509-24	DUP 14	Total/NA	Solid	8082A	218178
MB 180-218112/1-C	Method Blank	Total/NA	Solid	8082A	218178
LCS 180-218112/2-C	Lab Control Sample	Total/NA	Solid	8082A	218178

Prep Batch: 218112

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68509-3	WB 7-8, S1, C 072417	Total/NA	Solid	3541	
180-68509-6	WB 7-8, S2, C 072417	Total/NA	Solid	3541	
180-68509-9	WB 7-8, S3, C 072417	Total/NA	Solid	3541	
180-68509-12	WB 7-8, S4, C 072417	Total/NA	Solid	3541	
180-68509-15	W9, S1, C 072417	Total/NA	Solid	3541	
180-68509-24	DUP 14	Total/NA	Solid	3541	
MB 180-218112/1-C	Method Blank	Total/NA	Solid	3541	
LCS 180-218112/2-C	Lab Control Sample	Total/NA	Solid	3541	

Cleanup Batch: 218177

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68509-3	WB 7-8, S1, C 072417	Total/NA	Solid	3665A	218112
180-68509-6	WB 7-8, S2, C 072417	Total/NA	Solid	3665A	218112
180-68509-9	WB 7-8, S3, C 072417	Total/NA	Solid	3665A	218112
180-68509-12	WB 7-8, S4, C 072417	Total/NA	Solid	3665A	218112
180-68509-15	W9, S1, C 072417	Total/NA	Solid	3665A	218112
180-68509-24	DUP 14	Total/NA	Solid	3665A	218112
MB 180-218112/1-C	Method Blank	Total/NA	Solid	3665A	218112
LCS 180-218112/2-C	Lab Control Sample	Total/NA	Solid	3665A	218112

GC Semi VOA (Continued)

Cleanup Batch: 218178

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68509-3	WB 7-8, S1, C 072417	Total/NA	Solid	3660B	218177
180-68509-6	WB 7-8, S2, C 072417	Total/NA	Solid	3660B	218177
180-68509-9	WB 7-8, S3, C 072417	Total/NA	Solid	3660B	218177
180-68509-12	WB 7-8, S4, C 072417	Total/NA	Solid	3660B	218177
180-68509-15	W9, S1, C 072417	Total/NA	Solid	3660B	218177
180-68509-24	DUP 14	Total/NA	Solid	3660B	218177
MB 180-218112/1-C	Method Blank	Total/NA	Solid	3660B	218177
LCS 180-218112/2-C	Lab Control Sample	Total/NA	Solid	3660B	218177

Metals

Prep Batch: 218097

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68509-3	WB 7-8, S1, C 072417	Total/NA	Solid	7471B	
180-68509-6	WB 7-8, S2, C 072417	Total/NA	Solid	7471B	
180-68509-9	WB 7-8, S3, C 072417	Total/NA	Solid	7471B	
180-68509-12	WB 7-8, S4, C 072417	Total/NA	Solid	7471B	
180-68509-15	W9, S1, C 072417	Total/NA	Solid	7471B	
180-68509-24	DUP 14	Total/NA	Solid	7471B	
MB 180-218097/1-A	Method Blank	Total/NA	Solid	7471B	
LCS 180-218097/2-A	Lab Control Sample	Total/NA	Solid	7471B	
LCSD 180-218097/3-A	Lab Control Sample Dup	Total/NA	Solid	7471B	

Analysis Batch: 218142

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68509-3	WB 7-8, S1, C 072417	Total/NA	Solid	7471B	218097
180-68509-6	WB 7-8, S2, C 072417	Total/NA	Solid	7471B	218097
180-68509-9	WB 7-8, S3, C 072417	Total/NA	Solid	7471B	218097
180-68509-12	WB 7-8, S4, C 072417	Total/NA	Solid	7471B	218097
180-68509-15	W9, S1, C 072417	Total/NA	Solid	7471B	218097
180-68509-24	DUP 14	Total/NA	Solid	7471B	218097
MB 180-218097/1-A	Method Blank	Total/NA	Solid	7471B	218097
LCS 180-218097/2-A	Lab Control Sample	Total/NA	Solid	7471B	218097
LCSD 180-218097/3-A	Lab Control Sample Dup	Total/NA	Solid	7471B	218097

Prep Batch: 218293

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68509-3	WB 7-8, S1, C 072417	Total/NA	Solid	3050B	
180-68509-6	WB 7-8, S2, C 072417	Total/NA	Solid	3050B	
180-68509-9	WB 7-8, S3, C 072417	Total/NA	Solid	3050B	
180-68509-12	WB 7-8, S4, C 072417	Total/NA	Solid	3050B	
180-68509-15	W9, S1, C 072417	Total/NA	Solid	3050B	
180-68509-24	DUP 14	Total/NA	Solid	3050B	
MB 180-218293/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 180-218293/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Analysis Batch: 218421

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68509-3	WB 7-8, S1, C 072417	Total/NA	Solid	6010C	218293
180-68509-6	WB 7-8, S2, C 072417	Total/NA	Solid	6010C	218293

Metals (Continued)

Analysis Batch: 218421 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68509-9	WB 7-8, S3, C 072417	Total/NA	Solid	6010C	218293
180-68509-12	WB 7-8, S4, C 072417	Total/NA	Solid	6010C	218293
180-68509-15	W9, S1, C 072417	Total/NA	Solid	6010C	218293
180-68509-24	DUP 14	Total/NA	Solid	6010C	218293
MB 180-218293/1-A	Method Blank	Total/NA	Solid	6010C	218293
LCS 180-218293/2-A	Lab Control Sample	Total/NA	Solid	6010C	218293

General Chemistry

Analysis Batch: 218069

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68509-1	WB 7-8, S1, A 072417	Total/NA	Solid	2540G	
180-68509-2	WB 7-8, S1, B 072417	Total/NA	Solid	2540G	
180-68509-3	WB 7-8, S1, C 072417	Total/NA	Solid	2540G	
180-68509-4	WB 7-8, S2, A 072417	Total/NA	Solid	2540G	
180-68509-5	WB 7-8, S2, B 072417	Total/NA	Solid	2540G	
180-68509-6	WB 7-8, S2, C 072417	Total/NA	Solid	2540G	
180-68509-7	WB 7-8, S3, A 072417	Total/NA	Solid	2540G	
180-68509-8	WB 7-8, S3, B 072417	Total/NA	Solid	2540G	
180-68509-9	WB 7-8, S3, C 072417	Total/NA	Solid	2540G	
180-68509-10	WB 7-8, S4, A 072417	Total/NA	Solid	2540G	
180-68509-11	WB 7-8, S4, B 072417	Total/NA	Solid	2540G	
180-68509-12	WB 7-8, S4, C 072417	Total/NA	Solid	2540G	
180-68509-13	W9, S1, A 072417	Total/NA	Solid	2540G	
180-68509-14	W9, S1, B 072417	Total/NA	Solid	2540G	
180-68509-15	W9, S1, C 072417	Total/NA	Solid	2540G	
180-68509-23	DUP 15	Total/NA	Solid	2540G	
180-68509-24	DUP 14	Total/NA	Solid	2540G	
180-68509-3 DU	WB 7-8, S1, C 072417	Total/NA	Solid	2540G	
180-68509-9 DU	WB 7-8, S3, C 072417	Total/NA	Solid	2540G	

Prep Batch: 218282

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68509-3	WB 7-8, S1, C 072417	Total/NA	Solid	9010C	
180-68509-6	WB 7-8, S2, C 072417	Total/NA	Solid	9010C	
180-68509-9	WB 7-8, S3, C 072417	Total/NA	Solid	9010C	
180-68509-12	WB 7-8, S4, C 072417	Total/NA	Solid	9010C	
180-68509-15	W9, S1, C 072417	Total/NA	Solid	9010C	
180-68509-24	DUP 14	Total/NA	Solid	9010C	
MB 180-218282/4-A	Method Blank	Total/NA	Solid	9010C	
HLCS 180-218282/2-A	Lab Control Sample	Total/NA	Solid	9010C	
LCS 180-218282/3-A	Lab Control Sample	Total/NA	Solid	9010C	
LLCS 180-218282/1-A	Lab Control Sample	Total/NA	Solid	9010C	

Analysis Batch: 218335

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68509-3	WB 7-8, S1, C 072417	Total/NA	Solid	9014	218282
180-68509-6	WB 7-8, S2, C 072417	Total/NA	Solid	9014	218282
180-68509-9	WB 7-8, S3, C 072417	Total/NA	Solid	9014	218282
180-68509-12	WB 7-8, S4, C 072417	Total/NA	Solid	9014	218282

General Chemistry (Continued)

Analysis Batch: 218335 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68509-15	W9, S1, C 072417	Total/NA	Solid	9014	218282
180-68509-24	DUP 14	Total/NA	Solid	9014	218282
MB 180-218282/4-A	Method Blank	Total/NA	Solid	9014	218282
HLCS 180-218282/2-A	Lab Control Sample	Total/NA	Solid	9014	218282
LCS 180-218282/3-A	Lab Control Sample	Total/NA	Solid	9014	218282
LLCS 180-218282/1-A	Lab Control Sample	Total/NA	Solid	9014	218282

TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
phone 412.963.7058 fax 412.963.2468

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☑ Other:

Client Contact	Project Manager: Aron Krasnopoler	Site Contact: Ashwin Ranna/Ellen Buelow	Date: 7-24-2017	COC No:
Geosyntec Consultants	Tel/Fax: 401-381-4333	Lab Contact: Dave Dunlap	Carrier: FedEx	1 of 3 COCs
10211 Wincopin Circle, 4th Floor	Analysis Turnaround Time			Sampler: Ellen Buelow
Columbia, MD 21044	☐ CALENDAR DAYS ☑ WORKING DAYS			For Lab Use Only:
410-381-4333 Phone	TAT if different from Below _____			Walk-in Client:
410-381-4499 FAX	☐ 2 weeks			Lab Sampling:
Project Name: Former Sperry Remington Site - North	☐ 1 week			Job / SDG No.:
Site: Elmira	☐ 2 days			
P O # MN0832B	☑ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	8260C - VOA- Select List	6010C, 7471B, 9014	8082A, 8270D_LL	8260C_LL-VOA-Select List	8260C Select List	Sample Specific Notes:
WB78,S1,A 72417	7-24-17	10:05	G	S	4	N	N	X					Rush
WB7-8,S1,B 72417	7-24-17	10:10	G	S	4	N	N	X					
WB7-8,S1,C 72417	7-24-17	10:20	C	S	2	N	N		X	X			
WB7-8,S2,A 72417	7-24-17	10:45	G	S	4	N	N	X					
WB7-8,S2,B 072417	7-24-17	10:50	G	S	4	N	N	X					
WB7-8,S2,C 72417	7-24-17	10:55	C	S	2	N	N		X	X			
WB7-8,S3,A 72417	72417	11:10	G	S	4	N	N	X					
WB7-8,S3,B 72417	72417	11:20	G	S	4	N	N	X					
WB7-8 S3, C 72417	72417	11:30	C	S	2	N	N		X	X			
WB7-8-S4,A 72417	72417	12:05	G	S	4	N	N	X					
WB7-8-S4,B 72417	72417	12:10	G	S	4	N	N	X					
WB7-8 S4,C 72417	72417	12:15	C	S	2	N	N		X	X			
								1					

180-68509 Chain of Custody

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd: _____ Corr'd: _____ | Therm ID No.: _____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Ashwin Ranna	Geosyntec	7-24-2017 1615	[signature]	TMHT	7/25/17 0915
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Form No. CA-C-WI-002, Rev. 4.3, dated 12/05/20*

TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
phone 412.963.7058 fax 412.963.2468

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☑ Other:

Client Contact	Project Manager: Aron Krasnopoler	Site Contact: Ashwin Ranna/Ellen Buelow	Date:	COC No:
Geosyntec Consultants	Tel/Fax: 401-381-4333	Lab Contact: Dave Dunlap	Carrier: FedEx	2 of 3 COCs
10211 Wincopin Circle, 4th Floor	Analysis Turnaround Time			Sampler:
Columbia, MD 21044	☐ CALENDAR DAYS ☑ WORKING DAYS			For Lab Use Only:
410-381-4333 Phone	TAT if different from Below _____			Walk-in Client:
410-381-4499 FAX	☐ 2 weeks			Lab Sampling:
Project Name: Former Sperry Remington Site - North	☐ 1 week			Job / SDG No.:
Site: Elmira	☐ 2 days			
P O # MN0832B	☑ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	PCBs - 8082A	VOCs - 8260C select list	TCLP - Lead	6010C, 7471B, 2014	8082A 8270D SL	TCLP RCRA METALS	RCRA TCLP SemiVOA	TCLP VOC	8260C WorkType No.	Sample Specific Notes:
W9,S1,A 072417 (FB)	~~7.24.17~~ 13:10	13:10	G	S	4	N	N		X								
W9,S1,B 072417 (EB)	~~7.24.17~~ 13:15	13:15	G	S	4	N	N		X								
W9,S1,C 072417 (EB)	~~7.24.17~~ 13:20	13:20	C	S	2	N	N				X	X					
W9,S2,C 072417	~~07.24.17~~	14:15	C	S	3	N	N	X					X	X			
W9,S3,C 072417	07.24.17	14:35	C	S	3	N	N	X					X	X			
W9,S4,C 072417	07.24.17	14:40	C	S	3	N	N	X					X	X			
W9,S2,A 072417	072417	15:45	G	S	2	N	N								X		
W9,S3,A 072417	072417	15:50	G	S	2	N	N								X		
W9,S4,A 072417	072417	15:55	G	S	2	N	N								X		
(Trip blank)	—	—	—	W	2	N	N									X	
~~DUP-5~~ EKB	~~072417~~	—	~~G~~	~~S~~	~~4~~												
~~DUP-14~~ EKB	~~07.24.17~~	—	~~G~~	~~S~~	~~2~~												
								1									

PCB's to be analyzed as discussed with Ellen Buelow 7/28/17

Rush

Preservation Used: 1= Ice, 2= HCl; 3= H_2SO_4; 4=HNO_3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd: _____ Corr'd: _____ Therm ID No.: _____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Ashwin Ranna	Geosyntec	7.24.17 1545		TA Pitt	7/25/17 0915
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Form No. CA-C-WI-002, Rev. 4.3, dated 12/05/2013

TestAmerica Pittsburgh
301 Alpha Drive RIDC Park
Pittsburgh, PA 15238
Phone (412) 963-7058 Fax (412) 963-2468

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Ellen Buelow	Lab PM: Dunlap, David A	Carrier Tracking No(s):	COC No: 180-38494-8381.1
Client Contact: Ashwin Ranna; Aron Krasnopoler	Phone: 412-552-4758	E-Mail: david.dunlap@testamericainc.com		Page: Page 3 of 3
Company: Geosyntec Consultants, Inc.				Job #:
Address: Penn Center West One, Suite 402 1 Penn Center West Drive	Due Date Requested:			
City: Pittsburgh	TAT Requested (days):			
State, Zip: PA, 15276				
Phone:	PO #: MN0832B			
Email: aranna@geosyntec.com; Akrasnopoler@geosyntec.com	WO #:			
Project Name: Former Sperry Remington Site - North IRM	Project #: 18013464			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - VOA-Select List	6010C, 7471B, 9014 - Select ICP Metals, Mercury, Cyanide	8082A, 8270D, PCBs, Select BNA	8260C - VOA-Select List (Trip Blanks only)	TCLP Semivolatiles, TCLP metals, PCBs										Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	A												
DUP 15	07-24-17	—	FG	Solid	N	N	X															Results
DUP 14	07-2417	—	FC	Solid	N	N		X	X													
DUP 16	07 2417	—	FG	Solid	N	N	X				XX											
				Solid																		
				Solid																		
				Solid																		
				Solid																		
				Solid																		
				Solid																		
				Solid																		
				Solid																		
				Solid																		

Changes as discussed with Ellen Buelow 7/25/17

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Ashwin Ranna	7-24-2017 / 1845	Geosyntec		7/25/17 0915	TA Pgh
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

7/28/2017

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 180-68509-1

Login Number: 68509
List Number: 1
Creator: Neri, Tom

List Source: TestAmerica Pittsburgh

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

TestAmerica Job ID: 180-68556-1
Client Project/Site: Former Sperry Remington Site - North IRM

For:
Geosyntec Consultants, Inc.
10211 Wincopin Circle
4'th Floor
Columbia, Maryland 21044

Attn: Mr. Aron Krasnopoler

Authorized for release by:
7/31/2017 6:55:32 PM

David Dunlap, Senior Project Manager
(412)963-2432
david.dunlap@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68556-1

Job ID: 180-68556-1

Laboratory: TestAmerica Pittsburgh

Narrative

Job Narrative
180-68556-1

Receipt
The samples were received on 7/26/2017 7:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.7º C.

GC/MS VOA
Method(s) 8260C: The matrix spike/matrix spike duplicate (MS/MSD) of sample WB7-8, S5, A 72517 (180-68556-1) had several recoveries slightly above the control limits. The recoveries of the laboratory control sample (LCS) were within the control limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method(s) 8270D LL: The matrix spike (MS) of sample WB7-8, S5, C 72517 (180-68556-3) had several recoveries slightly below the control limits. The RPD between the spikes was above the control limits for all analytes. The recoveries of the matrix spike duplicate (MSD) and laboratory control sample were within the control limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals
Method(s) 7471B: The matrix spike duplicate (MSD) of sample WB7-8, S5, C 72517 (180-68556-3) was above the control limits for mercury. The recoveries of the matrix spike (MS) and laboratory control sample were within the control limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.

GC/MS Semi VOA

Qualifier	Qualifier Description
F2	MS/MSD RPD exceeds control limits
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance limits.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

General Chemistry

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc. TestAmerica Job ID: 180-68556-1
Project/Site: Former Sperry Remington Site - North IRM

Laboratory: TestAmerica Pittsburgh

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	11182	03-31-18

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
2540G		Solid	Percent Moisture
2540G		Solid	Percent Solids
8270D LL	3541	Solid	1,4-Dioxane

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68556-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-68556-1	WB7-8, S5, A 72517	Solid	07/25/17 11:35	07/26/17 07:30
180-68556-2	WB7-8, S5, B 72517	Solid	07/25/17 11:50	07/26/17 07:30
180-68556-3	WB7-8, S5, C 72517	Solid	07/25/17 11:55	07/26/17 07:30
180-68556-4	WB6-7, S1, A 72517	Solid	07/25/17 15:10	07/26/17 07:30
180-68556-5	WB6-7, S1, B 72517	Solid	07/25/17 15:20	07/26/17 07:30
180-68556-6	WB6-7, S1, C 72517	Solid	07/25/17 15:25	07/26/17 07:30
180-68556-7	WB6-7, S2, A 72517	Solid	07/25/17 16:35	07/26/17 07:30
180-68556-8	WB6-7, S2, B 72517	Solid	07/25/17 16:25	07/26/17 07:30
180-68556-9	WB6-7, S2, C 72517	Solid	07/25/17 16:40	07/26/17 07:30
180-68556-10	DUP 17 72517	Solid	07/25/17 00:00	07/26/17 07:30
180-68556-11	TRIP BLANK	Water	07/25/17 00:00	07/26/17 07:30

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68556-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL PIT
8260C	Volatile Organic Compounds (GC/MS)	SW846	TAL PIT
8270D LL	Semivolatile Organic Compounds by GC/MS - Low Level	SW846	TAL PIT
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL PIT
6010C	Metals (ICP)	SW846	TAL PIT
7471B	Mercury (CVAA)	SW846	TAL PIT
2540G	SM 2540G	SM22	TAL PIT
9014	Cyanide	SW846	TAL PIT

Protocol References:

SM22 = SM22

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68556-1

Client Sample ID: WB7-8, S5, A 72517
Date Collected: 07/25/17 11:35
Date Received: 07/26/17 07:30

Lab Sample ID: 180-68556-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218185	07/26/17 15:12	JJZ	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: WB7-8, S5, A 72517
Date Collected: 07/25/17 11:35
Date Received: 07/26/17 07:30

Lab Sample ID: 180-68556-1
Matrix: Solid
Percent Solids: 82.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.132 g	5 mL	218236	07/27/17 05:30	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	218225	07/27/17 09:03	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: WB7-8, S5, B 72517
Date Collected: 07/25/17 11:50
Date Received: 07/26/17 07:30

Lab Sample ID: 180-68556-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218185	07/26/17 15:12	JJZ	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: WB7-8, S5, B 72517
Date Collected: 07/25/17 11:50
Date Received: 07/26/17 07:30

Lab Sample ID: 180-68556-2
Matrix: Solid
Percent Solids: 84.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.9514 g	5 mL	218236	07/27/17 05:30	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	218225	07/27/17 09:25	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: WB7-8, S5, C 72517
Date Collected: 07/25/17 11:55
Date Received: 07/26/17 07:30

Lab Sample ID: 180-68556-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218185	07/26/17 15:12	JJZ	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: WB7-8, S5, C 72517
Date Collected: 07/25/17 11:55
Date Received: 07/26/17 07:30

Lab Sample ID: 180-68556-3
Matrix: Solid
Percent Solids: 75.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	0.5 mL	218278	07/27/17 11:20	MAL	TAL PIT

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68556-1

Client Sample ID: WB7-8, S5, C 72517
Date Collected: 07/25/17 11:55
Date Received: 07/26/17 07:30

Lab Sample ID: 180-68556-3
Matrix: Solid
Percent Solids: 75.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8270D LL		1	1 mL	1 mL	218265	07/27/17 18:11	VVP	TAL PIT
	Instrument ID: CH732									
Total/NA	Prep	3541			15.0 g	20.0 mL	218279	07/27/17 11:28	MAL	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	218348	07/28/17 05:08	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	218349	07/28/17 05:09	JMO	TAL PIT
Total/NA	Analysis	8082A		1			218352	07/28/17 08:06	JMO	TAL PIT
	Instrument ID: CHGC16									
Total/NA	Prep	3050B			0.96 g	100 mL	218293	07/27/17 12:44	CRM	TAL PIT
Total/NA	Analysis	6010C		1			218421	07/28/17 09:16	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.57 g	100 mL	218383	07/31/17 08:10	RJR	TAL PIT
Total/NA	Analysis	7471B		1			218639	07/31/17 11:42	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.02 g	50 mL	218282	07/27/17 11:19	JAS	TAL PIT
Total/NA	Analysis	9014		1			218335	07/27/17 14:59	JAS	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: WB6-7, S1, A 72517
Date Collected: 07/25/17 15:10
Date Received: 07/26/17 07:30

Lab Sample ID: 180-68556-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218185	07/26/17 15:12	JJZ	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: WB6-7, S1, A 72517
Date Collected: 07/25/17 15:10
Date Received: 07/26/17 07:30

Lab Sample ID: 180-68556-4
Matrix: Solid
Percent Solids: 77.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.9238 g	5 mL	218236	07/27/17 05:30	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	218225	07/27/17 09:48	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: WB6-7, S1, B 72517
Date Collected: 07/25/17 15:20
Date Received: 07/26/17 07:30

Lab Sample ID: 180-68556-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218185	07/26/17 15:12	JJZ	TAL PIT
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68556-1

Client Sample ID: WB6-7, S1, B 72517
Date Collected: 07/25/17 15:20
Date Received: 07/26/17 07:30

Lab Sample ID: 180-68556-5
Matrix: Solid
Percent Solids: 77.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.5191 g	5 mL	218236	07/27/17 05:30	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	218225	07/27/17 10:10	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: WB6-7, S1, C 72517
Date Collected: 07/25/17 15:25
Date Received: 07/26/17 07:30

Lab Sample ID: 180-68556-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218185	07/26/17 15:12	JJZ	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: WB6-7, S1, C 72517
Date Collected: 07/25/17 15:25
Date Received: 07/26/17 07:30

Lab Sample ID: 180-68556-6
Matrix: Solid
Percent Solids: 77.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	0.5 mL	218278	07/27/17 11:20	MAL	TAL PIT
Total/NA	Analysis	8270D LL		1	1 mL	1 mL	218265	07/27/17 19:32	VVP	TAL PIT
	Instrument ID: CH732									
Total/NA	Prep	3541			15.0 g	20.0 mL	218279	07/27/17 11:28	MAL	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	218348	07/28/17 05:08	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	218349	07/28/17 05:09	JMO	TAL PIT
Total/NA	Analysis	8082A		1			218352	07/28/17 09:08	JMO	TAL PIT
	Instrument ID: CHGC16									
Total/NA	Prep	3050B			1.01 g	100 mL	218293	07/27/17 12:44	CRM	TAL PIT
Total/NA	Analysis	6010C		1			218421	07/28/17 09:50	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.62 g	100 mL	218383	07/31/17 08:10	RJR	TAL PIT
Total/NA	Analysis	7471B		1			218639	07/31/17 11:52	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.00 g	50 mL	218282	07/27/17 11:19	JAS	TAL PIT
Total/NA	Analysis	9014		1			218335	07/27/17 15:08	JAS	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: WB6-7, S2, A 72517
Date Collected: 07/25/17 16:35
Date Received: 07/26/17 07:30

Lab Sample ID: 180-68556-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218185	07/26/17 15:12	JJZ	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: WB6-7, S2, A 72517
Date Collected: 07/25/17 16:35
Date Received: 07/26/17 07:30

Lab Sample ID: 180-68556-7
Matrix: Solid
Percent Solids: 71.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.6665 g	5 mL	218236	07/27/17 05:30	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	218225	07/27/17 10:33	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: WB6-7, S2, B 72517
Date Collected: 07/25/17 16:25
Date Received: 07/26/17 07:30

Lab Sample ID: 180-68556-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218185	07/26/17 15:12	JJZ	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: WB6-7, S2, B 72517
Date Collected: 07/25/17 16:25
Date Received: 07/26/17 07:30

Lab Sample ID: 180-68556-8
Matrix: Solid
Percent Solids: 84.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			7.4758 g	5 mL	218236	07/27/17 05:30	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	218225	07/27/17 10:56	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: WB6-7, S2, C 72517
Date Collected: 07/25/17 16:40
Date Received: 07/26/17 07:30

Lab Sample ID: 180-68556-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218185	07/26/17 15:12	JJZ	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: WB6-7, S2, C 72517
Date Collected: 07/25/17 16:40
Date Received: 07/26/17 07:30

Lab Sample ID: 180-68556-9
Matrix: Solid
Percent Solids: 82.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	0.5 mL	218278	07/27/17 11:20	MAL	TAL PIT
Total/NA	Analysis	8270D LL		1	1 mL	1 mL	218265	07/27/17 19:59	VVP	TAL PIT
	Instrument ID: CH732									
Total/NA	Prep	3541			15.0 g	20.0 mL	218279	07/27/17 11:28	MAL	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	218348	07/28/17 05:08	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	218349	07/28/17 05:09	JMO	TAL PIT
Total/NA	Analysis	8082A		1			218352	07/28/17 09:29	JMO	TAL PIT
	Instrument ID: CHGC16									
Total/NA	Prep	3050B			1.01 g	100 mL	218293	07/27/17 12:44	CRM	TAL PIT

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68556-1

Client Sample ID: WB6-7, S2, C 72517

Date Collected: 07/25/17 16:40
Date Received: 07/26/17 07:30

Lab Sample ID: 180-68556-9

Matrix: Solid
Percent Solids: 82.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	6010C		1			218421	07/28/17 09:55	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.57 g	100 mL	218383	07/31/17 08:10	RJR	TAL PIT
Total/NA	Analysis	7471B		1			218639	07/31/17 11:55	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.02 g	50 mL	218282	07/27/17 11:19	JAS	TAL PIT
Total/NA	Analysis	9014		1			218335	07/27/17 15:10	JAS	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: DUP 17 72517

Date Collected: 07/25/17 00:00
Date Received: 07/26/17 07:30

Lab Sample ID: 180-68556-10

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218185	07/26/17 15:12	JJZ	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: DUP 17 72517

Date Collected: 07/25/17 00:00
Date Received: 07/26/17 07:30

Lab Sample ID: 180-68556-10

Matrix: Solid
Percent Solids: 79.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.0205 g	5 mL	218236	07/27/17 05:30	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	218225	07/27/17 11:18	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: TRIP BLANK

Date Collected: 07/25/17 00:00
Date Received: 07/26/17 07:30

Lab Sample ID: 180-68556-11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	218214	07/27/17 05:26	FBB	TAL PIT
	Instrument ID: CHHP6									

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Analyst References:

Lab: TAL PIT

Batch Type: Cleanup

JMO = John Oravec

Batch Type: Prep

CRM = Caitlin McEvoy

JAS = Joshua Schmidt

KLG = Kathy Gordon

MAL = Michael Lonzo

RJR = Ron Rosenbaum

Batch Type: Analysis

FBB = Frank Bungard

JAS = Joshua Schmidt

JJZ = Joseph Zubrow

JMO = John Oravec

KLG = Kathy Gordon

RJG = Rob Good

RJR = Ron Rosenbaum

VVP = Vincent Piccolino

Client Sample ID: WB7-8, S5, A 72517

Lab Sample ID: 180-68556-1
Date Collected: 07/25/17 11:35
Matrix: Solid
Date Received: 07/26/17 07:30
Percent Solids: 82.4

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.029	0.0046	mg/Kg	☼	07/27/17 05:30	07/27/17 09:03	1
Benzene	ND		0.0073	0.0029	mg/Kg	☼	07/27/17 05:30	07/27/17 09:03	1
2-Butanone (MEK)	ND		0.0073	0.0043	mg/Kg	☼	07/27/17 05:30	07/27/17 09:03	1
Carbon tetrachloride	ND	F1	0.0073	0.0049	mg/Kg	☼	07/27/17 05:30	07/27/17 09:03	1
Chlorobenzene	ND		0.0073	0.0023	mg/Kg	☼	07/27/17 05:30	07/27/17 09:03	1
Chloroform	ND		0.0073	0.0031	mg/Kg	☼	07/27/17 05:30	07/27/17 09:03	1
cis-1,2-Dichloroethene	ND		0.0073	0.0023	mg/Kg	☼	07/27/17 05:30	07/27/17 09:03	1
1,2-Dichlorobenzene	ND		0.0073	0.0059	mg/Kg	☼	07/27/17 05:30	07/27/17 09:03	1
1,3-Dichlorobenzene	ND		0.0073	0.0023	mg/Kg	☼	07/27/17 05:30	07/27/17 09:03	1
1,4-Dichlorobenzene	ND		0.0073	0.0015	mg/Kg	☼	07/27/17 05:30	07/27/17 09:03	1
1,1-Dichloroethane	ND		0.0073	0.0027	mg/Kg	☼	07/27/17 05:30	07/27/17 09:03	1
1,2-Dichloroethane	ND		0.0073	0.0021	mg/Kg	☼	07/27/17 05:30	07/27/17 09:03	1
1,1-Dichloroethene	ND		0.0073	0.0042	mg/Kg	☼	07/27/17 05:30	07/27/17 09:03	1
Ethylbenzene	ND		0.0073	0.0032	mg/Kg	☼	07/27/17 05:30	07/27/17 09:03	1
Methylene Chloride	ND		0.0073	0.0035	mg/Kg	☼	07/27/17 05:30	07/27/17 09:03	1
Methyl tert-butyl ether	ND		0.0073	0.0054	mg/Kg	☼	07/27/17 05:30	07/27/17 09:03	1
n-Butylbenzene	ND		0.0073	0.0056	mg/Kg	☼	07/27/17 05:30	07/27/17 09:03	1
N-Propylbenzene	ND	F1	0.0073	0.0031	mg/Kg	☼	07/27/17 05:30	07/27/17 09:03	1
sec-Butylbenzene	ND		0.0073	0.0036	mg/Kg	☼	07/27/17 05:30	07/27/17 09:03	1
tert-Butylbenzene	ND		0.0073	0.0027	mg/Kg	☼	07/27/17 05:30	07/27/17 09:03	1
Tetrachloroethene	ND		0.0073	0.0029	mg/Kg	☼	07/27/17 05:30	07/27/17 09:03	1
Toluene	ND		0.0073	0.0025	mg/Kg	☼	07/27/17 05:30	07/27/17 09:03	1
trans-1,2-Dichloroethene	ND		0.0073	0.0037	mg/Kg	☼	07/27/17 05:30	07/27/17 09:03	1
1,1,1-Trichloroethane	ND	F1	0.0073	0.0037	mg/Kg	☼	07/27/17 05:30	07/27/17 09:03	1
Trichloroethene	ND		0.0073	0.0022	mg/Kg	☼	07/27/17 05:30	07/27/17 09:03	1
1,2,4-Trimethylbenzene	ND	F1	0.0073	0.0020	mg/Kg	☼	07/27/17 05:30	07/27/17 09:03	1
1,3,5-Trimethylbenzene	ND		0.0073	0.0025	mg/Kg	☼	07/27/17 05:30	07/27/17 09:03	1
Vinyl chloride	ND		0.0073	0.0054	mg/Kg	☼	07/27/17 05:30	07/27/17 09:03	1
Xylenes, Total	ND		0.015	0.0063	mg/Kg	☼	07/27/17 05:30	07/27/17 09:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*63 - 120*	*07/27/17 05:30*	*07/27/17 09:03*	*1*
Dibromofluoromethane (Surr)	*100*		*68 - 121*	*07/27/17 05:30*	*07/27/17 09:03*	*1*
1,2-Dichloroethane-d4 (Surr)	*89*		*52 - 124*	*07/27/17 05:30*	*07/27/17 09:03*	*1*
Toluene-d8 (Surr)	*109*		*72 - 127*	*07/27/17 05:30*	*07/27/17 09:03*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**17.6**		0.1	0.1	%			07/26/17 15:12	1
Percent Solids	**82.4**		0.1	0.1	%			07/26/17 15:12	1

Client Sample ID: WB7-8, S5, B 72517

Lab Sample ID: 180-68556-2
Date Collected: 07/25/17 11:50
Matrix: Solid
Date Received: 07/26/17 07:30
Percent Solids: 84.5

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.020	0.0031	mg/Kg	☼	07/27/17 05:30	07/27/17 09:25	1
Benzene	ND		0.0050	0.0020	mg/Kg	☼	07/27/17 05:30	07/27/17 09:25	1
2-Butanone (MEK)	ND		0.0050	0.0029	mg/Kg	☼	07/27/17 05:30	07/27/17 09:25	1

Client Sample ID: WB7-8, S5, B 72517 — Lab Sample ID: 180-68556-2

Date Collected: 07/25/17 11:50 — **Matrix: Solid**
Date Received: 07/26/17 07:30 — **Percent Solids: 84.5**

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	ND		0.0050	0.0033	mg/Kg	☼	07/27/17 05:30	07/27/17 09:25	1
Chlorobenzene	ND		0.0050	0.0016	mg/Kg	☼	07/27/17 05:30	07/27/17 09:25	1
Chloroform	ND		0.0050	0.0021	mg/Kg	☼	07/27/17 05:30	07/27/17 09:25	1
cis-1,2-Dichloroethene	ND		0.0050	0.0016	mg/Kg	☼	07/27/17 05:30	07/27/17 09:25	1
1,2-Dichlorobenzene	ND		0.0050	0.0040	mg/Kg	☼	07/27/17 05:30	07/27/17 09:25	1
1,3-Dichlorobenzene	ND		0.0050	0.0016	mg/Kg	☼	07/27/17 05:30	07/27/17 09:25	1
1,4-Dichlorobenzene	ND		0.0050	0.0010	mg/Kg	☼	07/27/17 05:30	07/27/17 09:25	1
1,1-Dichloroethane	ND		0.0050	0.0018	mg/Kg	☼	07/27/17 05:30	07/27/17 09:25	1
1,2-Dichloroethane	ND		0.0050	0.0014	mg/Kg	☼	07/27/17 05:30	07/27/17 09:25	1
1,1-Dichloroethene	ND		0.0050	0.0028	mg/Kg	☼	07/27/17 05:30	07/27/17 09:25	1
Ethylbenzene	ND		0.0050	0.0021	mg/Kg	☼	07/27/17 05:30	07/27/17 09:25	1
Methylene Chloride	ND		0.0050	0.0023	mg/Kg	☼	07/27/17 05:30	07/27/17 09:25	1
Methyl tert-butyl ether	ND		0.0050	0.0037	mg/Kg	☼	07/27/17 05:30	07/27/17 09:25	1
n-Butylbenzene	ND		0.0050	0.0038	mg/Kg	☼	07/27/17 05:30	07/27/17 09:25	1
N-Propylbenzene	ND		0.0050	0.0021	mg/Kg	☼	07/27/17 05:30	07/27/17 09:25	1
sec-Butylbenzene	ND		0.0050	0.0024	mg/Kg	☼	07/27/17 05:30	07/27/17 09:25	1
tert-Butylbenzene	ND		0.0050	0.0018	mg/Kg	☼	07/27/17 05:30	07/27/17 09:25	1
Tetrachloroethene	ND		0.0050	0.0020	mg/Kg	☼	07/27/17 05:30	07/27/17 09:25	1
Toluene	ND		0.0050	0.0017	mg/Kg	☼	07/27/17 05:30	07/27/17 09:25	1
trans-1,2-Dichloroethene	ND		0.0050	0.0025	mg/Kg	☼	07/27/17 05:30	07/27/17 09:25	1
1,1,1-Trichloroethane	ND		0.0050	0.0025	mg/Kg	☼	07/27/17 05:30	07/27/17 09:25	1
Trichloroethene	ND		0.0050	0.0015	mg/Kg	☼	07/27/17 05:30	07/27/17 09:25	1
1,2,4-Trimethylbenzene	ND		0.0050	0.0013	mg/Kg	☼	07/27/17 05:30	07/27/17 09:25	1
1,3,5-Trimethylbenzene	ND		0.0050	0.0017	mg/Kg	☼	07/27/17 05:30	07/27/17 09:25	1
Vinyl chloride	ND		0.0050	0.0036	mg/Kg	☼	07/27/17 05:30	07/27/17 09:25	1
Xylenes, Total	ND		0.0099	0.0043	mg/Kg	☼	07/27/17 05:30	07/27/17 09:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*63 - 120*	*07/27/17 05:30*	*07/27/17 09:25*	*1*
Dibromofluoromethane (Surr)	*98*		*68 - 121*	*07/27/17 05:30*	*07/27/17 09:25*	*1*
1,2-Dichloroethane-d4 (Surr)	*88*		*52 - 124*	*07/27/17 05:30*	*07/27/17 09:25*	*1*
Toluene-d8 (Surr)	*110*		*72 - 127*	*07/27/17 05:30*	*07/27/17 09:25*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**15.5**		0.1	0.1	%			07/26/17 15:12	1
Percent Solids	**84.5**		0.1	0.1	%			07/26/17 15:12	1

Client Sample ID: WB7-8, S5, C 72517 — Lab Sample ID: 180-68556-3

Date Collected: 07/25/17 11:55 — **Matrix: Solid**
Date Received: 07/26/17 07:30 — **Percent Solids: 75.3**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.0091**	**F2**	0.0089	0.0030	mg/Kg	☼	07/27/17 11:20	07/27/17 18:11	1
Acenaphthylene	**0.038**	**F2 F1**	0.0089	0.0030	mg/Kg	☼	07/27/17 11:20	07/27/17 18:11	1
Anthracene	**0.036**	**F2 F1**	0.0089	0.0033	mg/Kg	☼	07/27/17 11:20	07/27/17 18:11	1
Benzo[a]anthracene	**0.097**	**F2 F1**	0.0089	0.0035	mg/Kg	☼	07/27/17 11:20	07/27/17 18:11	1
Benzo[a]pyrene	**0.10**	**F2**	0.0089	0.0037	mg/Kg	☼	07/27/17 11:20	07/27/17 18:11	1
Benzo[b]fluoranthene	**0.14**	**F2 F1**	0.0089	0.0038	mg/Kg	☼	07/27/17 11:20	07/27/17 18:11	1

Client Sample ID: WB7-8, S5, C 72517 **Lab Sample ID: 180-68556-3**
Date Collected: 07/25/17 11:55 **Matrix: Solid**
Date Received: 07/26/17 07:30 **Percent Solids: 75.3**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	**0.096**	**F2**	0.0089	0.0038	mg/Kg	☼	07/27/17 11:20	07/27/17 18:11	1
Benzo[k]fluoranthene	**0.051**	**F2 F1**	0.0089	0.0031	mg/Kg	☼	07/27/17 11:20	07/27/17 18:11	1
Chrysene	**0.11**	**F2**	0.0089	0.0035	mg/Kg	☼	07/27/17 11:20	07/27/17 18:11	1
Dibenz(a,h)anthracene	**0.024**	**F2**	0.0089	0.0037	mg/Kg	☼	07/27/17 11:20	07/27/17 18:11	1
Dibenzofuran	**0.0075**	**J F2**	0.044	0.0035	mg/Kg	☼	07/27/17 11:20	07/27/17 18:11	1
1,4-Dioxane	ND	F2	0.089	0.0067	mg/Kg	☼	07/27/17 11:20	07/27/17 18:11	1
Fluoranthene	**0.18**	**F2**	0.0089	0.0035	mg/Kg	☼	07/27/17 11:20	07/27/17 18:11	1
Fluorene	**0.011**	**F2**	0.0089	0.0032	mg/Kg	☼	07/27/17 11:20	07/27/17 18:11	1
Hexachlorobenzene	ND	F2	0.0089	0.0036	mg/Kg	☼	07/27/17 11:20	07/27/17 18:11	1
Indeno[1,2,3-cd]pyrene	**0.082**	**F2**	0.0089	0.0034	mg/Kg	☼	07/27/17 11:20	07/27/17 18:11	1
2-Methylphenol	ND	F2	0.044	0.0039	mg/Kg	☼	07/27/17 11:20	07/27/17 18:11	1
Methylphenol, 3 & 4	**0.012**	**J F2**	0.044	0.0039	mg/Kg	☼	07/27/17 11:20	07/27/17 18:11	1
Naphthalene	**0.015**	**F2**	0.0089	0.0032	mg/Kg	☼	07/27/17 11:20	07/27/17 18:11	1
Pentachlorophenol	ND	F2	0.23	0.084	mg/Kg	☼	07/27/17 11:20	07/27/17 18:11	1
Phenanthrene	**0.085**	**F2 F1**	0.0089	0.0037	mg/Kg	☼	07/27/17 11:20	07/27/17 18:11	1
Phenol	ND	F2	0.044	0.0060	mg/Kg	☼	07/27/17 11:20	07/27/17 18:11	1
Pyrene	**0.15**	**F2 F1**	0.0089	0.0039	mg/Kg	☼	07/27/17 11:20	07/27/17 18:11	1
Hexachloroethane	ND	F2	44	3.2	ug/Kg	☼	07/27/17 11:20	07/27/17 18:11	1
Nitrobenzene	ND	F2	89	3.4	ug/Kg	☼	07/27/17 11:20	07/27/17 18:11	1
Hexachlorobutadiene	ND	F2	8.9	2.8	ug/Kg	☼	07/27/17 11:20	07/27/17 18:11	1
2,4,5-Trichlorophenol	ND	F2	44	4.2	ug/Kg	☼	07/27/17 11:20	07/27/17 18:11	1
2,4,6-Trichlorophenol	ND	F2	44	3.9	ug/Kg	☼	07/27/17 11:20	07/27/17 18:11	1
2,4-Dinitrotoluene	ND	F2	44	5.9	ug/Kg	☼	07/27/17 11:20	07/27/17 18:11	1
Pyridine	ND	F2 F1	44	4.2	ug/Kg	☼	07/27/17 11:20	07/27/17 18:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*51*		*42 - 100*	*07/27/17 11:20*	*07/27/17 18:11*	*1*
2-Fluorophenol (Surr)	*50*		*21 - 107*	*07/27/17 11:20*	*07/27/17 18:11*	*1*
Nitrobenzene-d5 (Surr)	*46*		*35 - 109*	*07/27/17 11:20*	*07/27/17 18:11*	*1*
Phenol-d5 (Surr)	*50*		*29 - 105*	*07/27/17 11:20*	*07/27/17 18:11*	*1*
Terphenyl-d14 (Surr)	*51*		*36 - 113*	*07/27/17 11:20*	*07/27/17 18:11*	*1*
2,4,6-Tribromophenol (Surr)	*71*		*20 - 134*	*07/27/17 11:20*	*07/27/17 18:11*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.022	0.012	mg/Kg	☼	07/27/17 11:28	07/28/17 08:06	1
PCB-1221	ND		0.022	0.011	mg/Kg	☼	07/27/17 11:28	07/28/17 08:06	1
PCB-1232	ND		0.022	0.0088	mg/Kg	☼	07/27/17 11:28	07/28/17 08:06	1
PCB-1242	ND		0.022	0.018	mg/Kg	☼	07/27/17 11:28	07/28/17 08:06	1
PCB-1248	**0.87**		0.022	0.011	mg/Kg	☼	07/27/17 11:28	07/28/17 08:06	1
PCB-1254	**0.36**		0.022	0.0097	mg/Kg	☼	07/27/17 11:28	07/28/17 08:06	1
PCB-1260	**0.038**		0.022	0.015	mg/Kg	☼	07/27/17 11:28	07/28/17 08:06	1
PCB-1262	ND		0.022	0.016	mg/Kg	☼	07/27/17 11:28	07/28/17 08:06	1
PCB-1268	ND		0.022	0.0067	mg/Kg	☼	07/27/17 11:28	07/28/17 08:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*84*		*23 - 150*	*07/27/17 11:28*	*07/28/17 08:06*	*1*
DCB Decachlorobiphenyl (Surr)	*89*		*23 - 150*	*07/27/17 11:28*	*07/28/17 08:06*	*1*
Tetrachloro-m-xylene (Surr)	*79*		*27 - 138*	*07/27/17 11:28*	*07/28/17 08:06*	*1*
Tetrachloro-m-xylene (Surr)	*84*		*27 - 138*	*07/27/17 11:28*	*07/28/17 08:06*	*1*

Client Sample ID: WB7-8, S5, C 72517 — Lab Sample ID: 180-68556-3

Date Collected: 07/25/17 11:55 — **Matrix: Solid**
Date Received: 07/26/17 07:30 — **Percent Solids: 75.3**

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.6		1.4	0.61	mg/Kg	☼	07/27/17 12:44	07/28/17 09:16	1
Barium	90		28	7.4	mg/Kg	☼	07/27/17 12:44	07/28/17 09:16	1
Beryllium	0.38	J	0.55	0.14	mg/Kg	☼	07/27/17 12:44	07/28/17 09:16	1
Cadmium	0.26	J	0.69	0.16	mg/Kg	☼	07/27/17 12:44	07/28/17 09:16	1
Chromium	9.8		0.69	0.18	mg/Kg	☼	07/27/17 12:44	07/28/17 09:16	1
Copper	21		3.5	1.1	mg/Kg	☼	07/27/17 12:44	07/28/17 09:16	1
Lead	22		1.4	0.45	mg/Kg	☼	07/27/17 12:44	07/28/17 09:16	1
Manganese	420		2.1	0.56	mg/Kg	☼	07/27/17 12:44	07/28/17 09:16	1
Nickel	18		5.5	1.2	mg/Kg	☼	07/27/17 12:44	07/28/17 09:16	1
Selenium	ND		1.4	0.55	mg/Kg	☼	07/27/17 12:44	07/28/17 09:16	1
Silver	ND		0.69	0.23	mg/Kg	☼	07/27/17 12:44	07/28/17 09:16	1
Zinc	59		2.8	1.4	mg/Kg	☼	07/27/17 12:44	07/28/17 09:16	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.036	J F1	0.046	0.010	mg/Kg	☼	07/31/17 08:10	07/31/17 11:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	24.7		0.1	0.1	%			07/26/17 15:12	1
Percent Solids	75.3		0.1	0.1	%			07/26/17 15:12	1
Cyanide, Total	0.38	J	0.65	0.20	mg/Kg	☼	07/27/17 11:19	07/27/17 14:59	1

Client Sample ID: WB6-7, S1, A 72517 — Lab Sample ID: 180-68556-4

Date Collected: 07/25/17 15:10 — **Matrix: Solid**
Date Received: 07/26/17 07:30 — **Percent Solids: 77.5**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.026	0.0041	mg/Kg	☼	07/27/17 05:30	07/27/17 09:48	1
Benzene	ND		0.0065	0.0026	mg/Kg	☼	07/27/17 05:30	07/27/17 09:48	1
2-Butanone (MEK)	ND		0.0065	0.0038	mg/Kg	☼	07/27/17 05:30	07/27/17 09:48	1
Carbon tetrachloride	ND		0.0065	0.0043	mg/Kg	☼	07/27/17 05:30	07/27/17 09:48	1
Chlorobenzene	ND		0.0065	0.0021	mg/Kg	☼	07/27/17 05:30	07/27/17 09:48	1
Chloroform	ND		0.0065	0.0028	mg/Kg	☼	07/27/17 05:30	07/27/17 09:48	1
cis-1,2-Dichloroethene	ND		0.0065	0.0021	mg/Kg	☼	07/27/17 05:30	07/27/17 09:48	1
1,2-Dichlorobenzene	ND		0.0065	0.0053	mg/Kg	☼	07/27/17 05:30	07/27/17 09:48	1
1,3-Dichlorobenzene	ND		0.0065	0.0021	mg/Kg	☼	07/27/17 05:30	07/27/17 09:48	1
1,4-Dichlorobenzene	ND		0.0065	0.0013	mg/Kg	☼	07/27/17 05:30	07/27/17 09:48	1
1,1-Dichloroethane	ND		0.0065	0.0024	mg/Kg	☼	07/27/17 05:30	07/27/17 09:48	1
1,2-Dichloroethane	ND		0.0065	0.0019	mg/Kg	☼	07/27/17 05:30	07/27/17 09:48	1
1,1-Dichloroethene	ND		0.0065	0.0037	mg/Kg	☼	07/27/17 05:30	07/27/17 09:48	1
Ethylbenzene	ND		0.0065	0.0028	mg/Kg	☼	07/27/17 05:30	07/27/17 09:48	1
Methylene Chloride	ND		0.0065	0.0031	mg/Kg	☼	07/27/17 05:30	07/27/17 09:48	1
Methyl tert-butyl ether	ND		0.0065	0.0048	mg/Kg	☼	07/27/17 05:30	07/27/17 09:48	1
n-Butylbenzene	ND		0.0065	0.0050	mg/Kg	☼	07/27/17 05:30	07/27/17 09:48	1
N-Propylbenzene	ND		0.0065	0.0028	mg/Kg	☼	07/27/17 05:30	07/27/17 09:48	1
sec-Butylbenzene	ND		0.0065	0.0032	mg/Kg	☼	07/27/17 05:30	07/27/17 09:48	1
tert-Butylbenzene	ND		0.0065	0.0024	mg/Kg	☼	07/27/17 05:30	07/27/17 09:48	1
Tetrachloroethene	ND		0.0065	0.0026	mg/Kg	☼	07/27/17 05:30	07/27/17 09:48	1

Client Sample ID: WB6-7, S1, A 72517 — Lab Sample ID: 180-68556-4

Date Collected: 07/25/17 15:10 — **Matrix: Solid**
Date Received: 07/26/17 07:30 — **Percent Solids: 77.5**

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		0.0065	0.0022	mg/Kg	☼	07/27/17 05:30	07/27/17 09:48	1
trans-1,2-Dichloroethene	ND		0.0065	0.0033	mg/Kg	☼	07/27/17 05:30	07/27/17 09:48	1
1,1,1-Trichloroethane	ND		0.0065	0.0033	mg/Kg	☼	07/27/17 05:30	07/27/17 09:48	1
Trichloroethene	ND		0.0065	0.0020	mg/Kg	☼	07/27/17 05:30	07/27/17 09:48	1
1,2,4-Trimethylbenzene	ND		0.0065	0.0018	mg/Kg	☼	07/27/17 05:30	07/27/17 09:48	1
1,3,5-Trimethylbenzene	ND		0.0065	0.0023	mg/Kg	☼	07/27/17 05:30	07/27/17 09:48	1
Vinyl chloride	ND		0.0065	0.0048	mg/Kg	☼	07/27/17 05:30	07/27/17 09:48	1
Xylenes, Total	ND		0.013	0.0056	mg/Kg	☼	07/27/17 05:30	07/27/17 09:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*63 - 120*	*07/27/17 05:30*	*07/27/17 09:48*	*1*
Dibromofluoromethane (Surr)	*96*		*68 - 121*	*07/27/17 05:30*	*07/27/17 09:48*	*1*
1,2-Dichloroethane-d4 (Surr)	*86*		*52 - 124*	*07/27/17 05:30*	*07/27/17 09:48*	*1*
Toluene-d8 (Surr)	*107*		*72 - 127*	*07/27/17 05:30*	*07/27/17 09:48*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**22.5**		0.1	0.1	%			07/26/17 15:12	1
Percent Solids	**77.5**		0.1	0.1	%			07/26/17 15:12	1

Client Sample ID: WB6-7, S1, B 72517 — Lab Sample ID: 180-68556-5

Date Collected: 07/25/17 15:20 — **Matrix: Solid**
Date Received: 07/26/17 07:30 — **Percent Solids: 77.4**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.029	0.0045	mg/Kg	☼	07/27/17 05:30	07/27/17 10:10	1
Benzene	ND		0.0071	0.0028	mg/Kg	☼	07/27/17 05:30	07/27/17 10:10	1
2-Butanone (MEK)	ND		0.0071	0.0041	mg/Kg	☼	07/27/17 05:30	07/27/17 10:10	1
Carbon tetrachloride	ND		0.0071	0.0047	mg/Kg	☼	07/27/17 05:30	07/27/17 10:10	1
Chlorobenzene	ND		0.0071	0.0022	mg/Kg	☼	07/27/17 05:30	07/27/17 10:10	1
Chloroform	ND		0.0071	0.0030	mg/Kg	☼	07/27/17 05:30	07/27/17 10:10	1
cis-1,2-Dichloroethene	ND		0.0071	0.0022	mg/Kg	☼	07/27/17 05:30	07/27/17 10:10	1
1,2-Dichlorobenzene	ND		0.0071	0.0057	mg/Kg	☼	07/27/17 05:30	07/27/17 10:10	1
1,3-Dichlorobenzene	ND		0.0071	0.0023	mg/Kg	☼	07/27/17 05:30	07/27/17 10:10	1
1,4-Dichlorobenzene	ND		0.0071	0.0015	mg/Kg	☼	07/27/17 05:30	07/27/17 10:10	1
1,1-Dichloroethane	ND		0.0071	0.0026	mg/Kg	☼	07/27/17 05:30	07/27/17 10:10	1
1,2-Dichloroethane	ND		0.0071	0.0021	mg/Kg	☼	07/27/17 05:30	07/27/17 10:10	1
1,1-Dichloroethene	ND		0.0071	0.0041	mg/Kg	☼	07/27/17 05:30	07/27/17 10:10	1
Ethylbenzene	ND		0.0071	0.0031	mg/Kg	☼	07/27/17 05:30	07/27/17 10:10	1
Methylene Chloride	ND		0.0071	0.0034	mg/Kg	☼	07/27/17 05:30	07/27/17 10:10	1
Methyl tert-butyl ether	ND		0.0071	0.0053	mg/Kg	☼	07/27/17 05:30	07/27/17 10:10	1
n-Butylbenzene	ND		0.0071	0.0054	mg/Kg	☼	07/27/17 05:30	07/27/17 10:10	1
N-Propylbenzene	ND		0.0071	0.0030	mg/Kg	☼	07/27/17 05:30	07/27/17 10:10	1
sec-Butylbenzene	ND		0.0071	0.0035	mg/Kg	☼	07/27/17 05:30	07/27/17 10:10	1
tert-Butylbenzene	ND		0.0071	0.0026	mg/Kg	☼	07/27/17 05:30	07/27/17 10:10	1
Tetrachloroethene	ND		0.0071	0.0029	mg/Kg	☼	07/27/17 05:30	07/27/17 10:10	1
Toluene	ND		0.0071	0.0024	mg/Kg	☼	07/27/17 05:30	07/27/17 10:10	1
trans-1,2-Dichloroethene	ND		0.0071	0.0036	mg/Kg	☼	07/27/17 05:30	07/27/17 10:10	1
1,1,1-Trichloroethane	ND		0.0071	0.0036	mg/Kg	☼	07/27/17 05:30	07/27/17 10:10	1

Client Sample ID: WB6-7, S1, B 72517

Lab Sample ID: 180-68556-5
Date Collected: 07/25/17 15:20
Matrix: Solid
Date Received: 07/26/17 07:30
Percent Solids: 77.4

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	ND		0.0071	0.0021	mg/Kg	☼	07/27/17 05:30	07/27/17 10:10	1
1,2,4-Trimethylbenzene	ND		0.0071	0.0019	mg/Kg	☼	07/27/17 05:30	07/27/17 10:10	1
1,3,5-Trimethylbenzene	ND		0.0071	0.0025	mg/Kg	☼	07/27/17 05:30	07/27/17 10:10	1
Vinyl chloride	ND		0.0071	0.0052	mg/Kg	☼	07/27/17 05:30	07/27/17 10:10	1
Xylenes, Total	ND		0.014	0.0062	mg/Kg	☼	07/27/17 05:30	07/27/17 10:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*63 - 120*	*07/27/17 05:30*	*07/27/17 10:10*	*1*
Dibromofluoromethane (Surr)	*102*		*68 - 121*	*07/27/17 05:30*	*07/27/17 10:10*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*52 - 124*	*07/27/17 05:30*	*07/27/17 10:10*	*1*
Toluene-d8 (Surr)	*113*		*72 - 127*	*07/27/17 05:30*	*07/27/17 10:10*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**22.6**		0.1	0.1	%			07/26/17 15:12	1
Percent Solids	**77.4**		0.1	0.1	%			07/26/17 15:12	1

Client Sample ID: WB6-7, S1, C 72517

Lab Sample ID: 180-68556-6
Date Collected: 07/25/17 15:25
Matrix: Solid
Date Received: 07/26/17 07:30
Percent Solids: 77.2

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.0044**	**J**	0.0087	0.0029	mg/Kg	☼	07/27/17 11:20	07/27/17 19:32	1
Acenaphthylene	**0.040**		0.0087	0.0029	mg/Kg	☼	07/27/17 11:20	07/27/17 19:32	1
Anthracene	**0.035**		0.0087	0.0032	mg/Kg	☼	07/27/17 11:20	07/27/17 19:32	1
Benzo[a]anthracene	**0.12**		0.0087	0.0034	mg/Kg	☼	07/27/17 11:20	07/27/17 19:32	1
Benzo[a]pyrene	**0.13**		0.0087	0.0036	mg/Kg	☼	07/27/17 11:20	07/27/17 19:32	1
Benzo[b]fluoranthene	**0.18**		0.0087	0.0037	mg/Kg	☼	07/27/17 11:20	07/27/17 19:32	1
Benzo[g,h,i]perylene	**0.15**		0.0087	0.0037	mg/Kg	☼	07/27/17 11:20	07/27/17 19:32	1
Benzo[k]fluoranthene	**0.067**		0.0087	0.0030	mg/Kg	☼	07/27/17 11:20	07/27/17 19:32	1
Chrysene	**0.15**		0.0087	0.0034	mg/Kg	☼	07/27/17 11:20	07/27/17 19:32	1
Dibenz(a,h)anthracene	**0.032**		0.0087	0.0036	mg/Kg	☼	07/27/17 11:20	07/27/17 19:32	1
Dibenzofuran	**0.0078**	**J**	0.043	0.0035	mg/Kg	☼	07/27/17 11:20	07/27/17 19:32	1
1,4-Dioxane	ND		0.086	0.0065	mg/Kg	☼	07/27/17 11:20	07/27/17 19:32	1
Fluoranthene	**0.21**		0.0087	0.0034	mg/Kg	☼	07/27/17 11:20	07/27/17 19:32	1
Fluorene	**0.0081**	**J**	0.0087	0.0031	mg/Kg	☼	07/27/17 11:20	07/27/17 19:32	1
Hexachlorobenzene	ND		0.0087	0.0035	mg/Kg	☼	07/27/17 11:20	07/27/17 19:32	1
Indeno[1,2,3-cd]pyrene	**0.12**		0.0087	0.0033	mg/Kg	☼	07/27/17 11:20	07/27/17 19:32	1
2-Methylphenol	ND		0.043	0.0038	mg/Kg	☼	07/27/17 11:20	07/27/17 19:32	1
Methylphenol, 3 & 4	**0.0091**	**J**	0.043	0.0038	mg/Kg	☼	07/27/17 11:20	07/27/17 19:32	1
Naphthalene	**0.018**		0.0087	0.0031	mg/Kg	☼	07/27/17 11:20	07/27/17 19:32	1
Pentachlorophenol	ND		0.22	0.082	mg/Kg	☼	07/27/17 11:20	07/27/17 19:32	1
Phenanthrene	**0.075**		0.0087	0.0036	mg/Kg	☼	07/27/17 11:20	07/27/17 19:32	1
Phenol	ND		0.043	0.0058	mg/Kg	☼	07/27/17 11:20	07/27/17 19:32	1
Pyrene	**0.16**		0.0087	0.0038	mg/Kg	☼	07/27/17 11:20	07/27/17 19:32	1
Hexachloroethane	ND		43	3.1	ug/Kg	☼	07/27/17 11:20	07/27/17 19:32	1
Nitrobenzene	ND		86	3.3	ug/Kg	☼	07/27/17 11:20	07/27/17 19:32	1
Hexachlorobutadiene	ND		8.7	2.7	ug/Kg	☼	07/27/17 11:20	07/27/17 19:32	1
2,4,5-Trichlorophenol	ND		43	4.1	ug/Kg	☼	07/27/17 11:20	07/27/17 19:32	1

Client Sample ID: WB6-7, S1, C 72517
Date Collected: 07/25/17 15:25
Date Received: 07/26/17 07:30

Lab Sample ID: 180-68556-6
Matrix: Solid
Percent Solids: 77.2

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,6-Trichlorophenol	ND		43	3.8	ug/Kg	☼	07/27/17 11:20	07/27/17 19:32	1
2,4-Dinitrotoluene	ND		43	5.7	ug/Kg	☼	07/27/17 11:20	07/27/17 19:32	1
Pyridine	ND		43	4.1	ug/Kg	☼	07/27/17 11:20	07/27/17 19:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*49*		*42 - 100*	*07/27/17 11:20*	*07/27/17 19:32*	*1*
2-Fluorophenol (Surr)	*42*		*21 - 107*	*07/27/17 11:20*	*07/27/17 19:32*	*1*
Nitrobenzene-d5 (Surr)	*41*		*35 - 109*	*07/27/17 11:20*	*07/27/17 19:32*	*1*
Phenol-d5 (Surr)	*44*		*29 - 105*	*07/27/17 11:20*	*07/27/17 19:32*	*1*
Terphenyl-d14 (Surr)	*44*		*36 - 113*	*07/27/17 11:20*	*07/27/17 19:32*	*1*
2,4,6-Tribromophenol (Surr)	*60*		*20 - 134*	*07/27/17 11:20*	*07/27/17 19:32*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.022	0.011	mg/Kg	☼	07/27/17 11:28	07/28/17 09:08	1
PCB-1221	ND		0.022	0.011	mg/Kg	☼	07/27/17 11:28	07/28/17 09:08	1
PCB-1232	ND		0.022	0.0085	mg/Kg	☼	07/27/17 11:28	07/28/17 09:08	1
PCB-1242	ND		0.022	0.017	mg/Kg	☼	07/27/17 11:28	07/28/17 09:08	1
PCB-1248	**0.78**		0.022	0.010	mg/Kg	☼	07/27/17 11:28	07/28/17 09:08	1
PCB-1254	**0.29**		0.022	0.0095	mg/Kg	☼	07/27/17 11:28	07/28/17 09:08	1
PCB-1260	**0.041**		0.022	0.014	mg/Kg	☼	07/27/17 11:28	07/28/17 09:08	1
PCB-1262	ND		0.022	0.015	mg/Kg	☼	07/27/17 11:28	07/28/17 09:08	1
PCB-1268	ND		0.022	0.0066	mg/Kg	☼	07/27/17 11:28	07/28/17 09:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*84*		*23 - 150*	*07/27/17 11:28*	*07/28/17 09:08*	*1*
DCB Decachlorobiphenyl (Surr)	*87*		*23 - 150*	*07/27/17 11:28*	*07/28/17 09:08*	*1*
Tetrachloro-m-xylene (Surr)	*77*		*27 - 138*	*07/27/17 11:28*	*07/28/17 09:08*	*1*
Tetrachloro-m-xylene (Surr)	*81*		*27 - 138*	*07/27/17 11:28*	*07/28/17 09:08*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**4.7**		1.3	0.57	mg/Kg	☼	07/27/17 12:44	07/28/17 09:50	1
Barium	**72**		26	6.9	mg/Kg	☼	07/27/17 12:44	07/28/17 09:50	1
Beryllium	**0.27**	**J**	0.51	0.13	mg/Kg	☼	07/27/17 12:44	07/28/17 09:50	1
Cadmium	**0.21**	**J**	0.64	0.14	mg/Kg	☼	07/27/17 12:44	07/28/17 09:50	1
Chromium	**8.2**		0.64	0.17	mg/Kg	☼	07/27/17 12:44	07/28/17 09:50	1
Copper	**23**		3.2	0.99	mg/Kg	☼	07/27/17 12:44	07/28/17 09:50	1
Lead	**23**		1.3	0.42	mg/Kg	☼	07/27/17 12:44	07/28/17 09:50	1
Manganese	**400**		1.9	0.52	mg/Kg	☼	07/27/17 12:44	07/28/17 09:50	1
Nickel	**16**		5.1	1.2	mg/Kg	☼	07/27/17 12:44	07/28/17 09:50	1
Selenium	ND		1.3	0.51	mg/Kg	☼	07/27/17 12:44	07/28/17 09:50	1
Silver	ND		0.64	0.21	mg/Kg	☼	07/27/17 12:44	07/28/17 09:50	1
Zinc	**53**		2.6	1.3	mg/Kg	☼	07/27/17 12:44	07/28/17 09:50	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.035**	**J**	0.041	0.0093	mg/Kg	☼	07/31/17 08:10	07/31/17 11:52	1

Client Sample ID: WB6-7, S1, C 72517 — Lab Sample ID: 180-68556-6

Date Collected: 07/25/17 15:25 — **Matrix: Solid**
Date Received: 07/26/17 07:30 — **Percent Solids: 77.2**

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	22.8		0.1	0.1	%			07/26/17 15:12	1
Percent Solids	77.2		0.1	0.1	%			07/26/17 15:12	1
Cyanide, Total	0.47	J	0.65	0.20	mg/Kg	☼	07/27/17 11:19	07/27/17 15:08	1

Client Sample ID: WB6-7, S2, A 72517 — Lab Sample ID: 180-68556-7

Date Collected: 07/25/17 16:35 — **Matrix: Solid**
Date Received: 07/26/17 07:30 — **Percent Solids: 71.2**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.021	0.0033	mg/Kg	☼	07/27/17 05:30	07/27/17 10:33	1
Benzene	ND		0.0053	0.0021	mg/Kg	☼	07/27/17 05:30	07/27/17 10:33	1
2-Butanone (MEK)	ND		0.0053	0.0031	mg/Kg	☼	07/27/17 05:30	07/27/17 10:33	1
Carbon tetrachloride	ND		0.0053	0.0035	mg/Kg	☼	07/27/17 05:30	07/27/17 10:33	1
Chlorobenzene	ND		0.0053	0.0017	mg/Kg	☼	07/27/17 05:30	07/27/17 10:33	1
Chloroform	ND		0.0053	0.0022	mg/Kg	☼	07/27/17 05:30	07/27/17 10:33	1
cis-1,2-Dichloroethene	ND		0.0053	0.0017	mg/Kg	☼	07/27/17 05:30	07/27/17 10:33	1
1,2-Dichlorobenzene	ND		0.0053	0.0042	mg/Kg	☼	07/27/17 05:30	07/27/17 10:33	1
1,3-Dichlorobenzene	ND		0.0053	0.0017	mg/Kg	☼	07/27/17 05:30	07/27/17 10:33	1
1,4-Dichlorobenzene	ND		0.0053	0.0011	mg/Kg	☼	07/27/17 05:30	07/27/17 10:33	1
1,1-Dichloroethane	ND		0.0053	0.0019	mg/Kg	☼	07/27/17 05:30	07/27/17 10:33	1
1,2-Dichloroethane	ND		0.0053	0.0015	mg/Kg	☼	07/27/17 05:30	07/27/17 10:33	1
1,1-Dichloroethene	ND		0.0053	0.0030	mg/Kg	☼	07/27/17 05:30	07/27/17 10:33	1
Ethylbenzene	ND		0.0053	0.0023	mg/Kg	☼	07/27/17 05:30	07/27/17 10:33	1
Methylene Chloride	ND		0.0053	0.0025	mg/Kg	☼	07/27/17 05:30	07/27/17 10:33	1
Methyl tert-butyl ether	ND		0.0053	0.0039	mg/Kg	☼	07/27/17 05:30	07/27/17 10:33	1
n-Butylbenzene	ND		0.0053	0.0040	mg/Kg	☼	07/27/17 05:30	07/27/17 10:33	1
N-Propylbenzene	ND		0.0053	0.0022	mg/Kg	☼	07/27/17 05:30	07/27/17 10:33	1
sec-Butylbenzene	ND		0.0053	0.0026	mg/Kg	☼	07/27/17 05:30	07/27/17 10:33	1
tert-Butylbenzene	ND		0.0053	0.0019	mg/Kg	☼	07/27/17 05:30	07/27/17 10:33	1
Tetrachloroethene	ND		0.0053	0.0021	mg/Kg	☼	07/27/17 05:30	07/27/17 10:33	1
Toluene	ND		0.0053	0.0018	mg/Kg	☼	07/27/17 05:30	07/27/17 10:33	1
trans-1,2-Dichloroethene	ND		0.0053	0.0027	mg/Kg	☼	07/27/17 05:30	07/27/17 10:33	1
1,1,1-Trichloroethane	ND		0.0053	0.0026	mg/Kg	☼	07/27/17 05:30	07/27/17 10:33	1
Trichloroethene	ND		0.0053	0.0016	mg/Kg	☼	07/27/17 05:30	07/27/17 10:33	1
1,2,4-Trimethylbenzene	ND		0.0053	0.0014	mg/Kg	☼	07/27/17 05:30	07/27/17 10:33	1
1,3,5-Trimethylbenzene	ND		0.0053	0.0018	mg/Kg	☼	07/27/17 05:30	07/27/17 10:33	1
Vinyl chloride	ND		0.0053	0.0039	mg/Kg	☼	07/27/17 05:30	07/27/17 10:33	1
Xylenes, Total	ND		0.011	0.0045	mg/Kg	☼	07/27/17 05:30	07/27/17 10:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*63 - 120*	*07/27/17 05:30*	*07/27/17 10:33*	*1*
Dibromofluoromethane (Surr)	*96*		*68 - 121*	*07/27/17 05:30*	*07/27/17 10:33*	*1*
1,2-Dichloroethane-d4 (Surr)	*87*		*52 - 124*	*07/27/17 05:30*	*07/27/17 10:33*	*1*
Toluene-d8 (Surr)	*107*		*72 - 127*	*07/27/17 05:30*	*07/27/17 10:33*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	28.8		0.1	0.1	%			07/26/17 15:12	1
Percent Solids	71.2		0.1	0.1	%			07/26/17 15:12	1

Client Sample ID: WB6-7, S2, B 72517 — Lab Sample ID: 180-68556-8

Date Collected: 07/25/17 16:25 — **Matrix: Solid**
Date Received: 07/26/17 07:30 — **Percent Solids: 84.6**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.016	0.0025	mg/Kg	☼	07/27/17 05:30	07/27/17 10:56	1
Benzene	ND		0.0040	0.0016	mg/Kg	☼	07/27/17 05:30	07/27/17 10:56	1
2-Butanone (MEK)	ND		0.0040	0.0023	mg/Kg	☼	07/27/17 05:30	07/27/17 10:56	1
Carbon tetrachloride	ND		0.0040	0.0026	mg/Kg	☼	07/27/17 05:30	07/27/17 10:56	1
Chlorobenzene	ND		0.0040	0.0012	mg/Kg	☼	07/27/17 05:30	07/27/17 10:56	1
Chloroform	ND		0.0040	0.0017	mg/Kg	☼	07/27/17 05:30	07/27/17 10:56	1
cis-1,2-Dichloroethene	ND		0.0040	0.0012	mg/Kg	☼	07/27/17 05:30	07/27/17 10:56	1
1,2-Dichlorobenzene	ND		0.0040	0.0032	mg/Kg	☼	07/27/17 05:30	07/27/17 10:56	1
1,3-Dichlorobenzene	ND		0.0040	0.0013	mg/Kg	☼	07/27/17 05:30	07/27/17 10:56	1
1,4-Dichlorobenzene	ND		0.0040	0.00081	mg/Kg	☼	07/27/17 05:30	07/27/17 10:56	1
1,1-Dichloroethane	ND		0.0040	0.0014	mg/Kg	☼	07/27/17 05:30	07/27/17 10:56	1
1,2-Dichloroethane	ND		0.0040	0.0011	mg/Kg	☼	07/27/17 05:30	07/27/17 10:56	1
1,1-Dichloroethene	ND		0.0040	0.0023	mg/Kg	☼	07/27/17 05:30	07/27/17 10:56	1
Ethylbenzene	ND		0.0040	0.0017	mg/Kg	☼	07/27/17 05:30	07/27/17 10:56	1
Methylene Chloride	ND		0.0040	0.0019	mg/Kg	☼	07/27/17 05:30	07/27/17 10:56	1
Methyl tert-butyl ether	ND		0.0040	0.0029	mg/Kg	☼	07/27/17 05:30	07/27/17 10:56	1
n-Butylbenzene	ND		0.0040	0.0030	mg/Kg	☼	07/27/17 05:30	07/27/17 10:56	1
N-Propylbenzene	ND		0.0040	0.0017	mg/Kg	☼	07/27/17 05:30	07/27/17 10:56	1
sec-Butylbenzene	ND		0.0040	0.0019	mg/Kg	☼	07/27/17 05:30	07/27/17 10:56	1
tert-Butylbenzene	ND		0.0040	0.0014	mg/Kg	☼	07/27/17 05:30	07/27/17 10:56	1
Tetrachloroethene	ND		0.0040	0.0016	mg/Kg	☼	07/27/17 05:30	07/27/17 10:56	1
Toluene	ND		0.0040	0.0013	mg/Kg	☼	07/27/17 05:30	07/27/17 10:56	1
trans-1,2-Dichloroethene	ND		0.0040	0.0020	mg/Kg	☼	07/27/17 05:30	07/27/17 10:56	1
1,1,1-Trichloroethane	ND		0.0040	0.0020	mg/Kg	☼	07/27/17 05:30	07/27/17 10:56	1
Trichloroethene	ND		0.0040	0.0012	mg/Kg	☼	07/27/17 05:30	07/27/17 10:56	1
1,2,4-Trimethylbenzene	ND		0.0040	0.0011	mg/Kg	☼	07/27/17 05:30	07/27/17 10:56	1
1,3,5-Trimethylbenzene	ND		0.0040	0.0014	mg/Kg	☼	07/27/17 05:30	07/27/17 10:56	1
Vinyl chloride	ND		0.0040	0.0029	mg/Kg	☼	07/27/17 05:30	07/27/17 10:56	1
Xylenes, Total	ND		0.0079	0.0034	mg/Kg	☼	07/27/17 05:30	07/27/17 10:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*63 - 120*	*07/27/17 05:30*	*07/27/17 10:56*	*1*
Dibromofluoromethane (Surr)	*94*		*68 - 121*	*07/27/17 05:30*	*07/27/17 10:56*	*1*
1,2-Dichloroethane-d4 (Surr)	*85*		*52 - 124*	*07/27/17 05:30*	*07/27/17 10:56*	*1*
Toluene-d8 (Surr)	*105*		*72 - 127*	*07/27/17 05:30*	*07/27/17 10:56*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**15.4**		0.1	0.1	%			07/26/17 15:12	1
Percent Solids	**84.6**		0.1	0.1	%			07/26/17 15:12	1

Client Sample ID: WB6-7, S2, C 72517 — Lab Sample ID: 180-68556-9

Date Collected: 07/25/17 16:40 — **Matrix: Solid**
Date Received: 07/26/17 07:30 — **Percent Solids: 82.0**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.032**		0.0082	0.0027	mg/Kg	☼	07/27/17 11:20	07/27/17 19:59	1
Acenaphthylene	**0.042**		0.0082	0.0028	mg/Kg	☼	07/27/17 11:20	07/27/17 19:59	1
Anthracene	**0.10**		0.0082	0.0030	mg/Kg	☼	07/27/17 11:20	07/27/17 19:59	1

Client Sample ID: WB6-7, S2, C 72517
Date Collected: 07/25/17 16:40
Date Received: 07/26/17 07:30

Lab Sample ID: 180-68556-9
Matrix: Solid
Percent Solids: 82.0

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	**0.24**		0.0082	0.0032	mg/Kg	☼	07/27/17 11:20	07/27/17 19:59	1
Benzo[a]pyrene	**0.23**		0.0082	0.0034	mg/Kg	☼	07/27/17 11:20	07/27/17 19:59	1
Benzo[b]fluoranthene	**0.28**		0.0082	0.0035	mg/Kg	☼	07/27/17 11:20	07/27/17 19:59	1
Benzo[g,h,i]perylene	**0.24**		0.0082	0.0035	mg/Kg	☼	07/27/17 11:20	07/27/17 19:59	1
Benzo[k]fluoranthene	**0.12**		0.0082	0.0028	mg/Kg	☼	07/27/17 11:20	07/27/17 19:59	1
Chrysene	**0.27**		0.0082	0.0032	mg/Kg	☼	07/27/17 11:20	07/27/17 19:59	1
Dibenz(a,h)anthracene	**0.054**		0.0082	0.0034	mg/Kg	☼	07/27/17 11:20	07/27/17 19:59	1
Dibenzofuran	**0.023**	**J**	0.040	0.0033	mg/Kg	☼	07/27/17 11:20	07/27/17 19:59	1
1,4-Dioxane	ND		0.081	0.0061	mg/Kg	☼	07/27/17 11:20	07/27/17 19:59	1
Fluoranthene	**0.51**		0.0082	0.0032	mg/Kg	☼	07/27/17 11:20	07/27/17 19:59	1
Fluorene	**0.032**		0.0082	0.0029	mg/Kg	☼	07/27/17 11:20	07/27/17 19:59	1
Hexachlorobenzene	ND		0.0082	0.0033	mg/Kg	☼	07/27/17 11:20	07/27/17 19:59	1
Indeno[1,2,3-cd]pyrene	**0.20**		0.0082	0.0031	mg/Kg	☼	07/27/17 11:20	07/27/17 19:59	1
2-Methylphenol	ND		0.040	0.0036	mg/Kg	☼	07/27/17 11:20	07/27/17 19:59	1
Methylphenol, 3 & 4	**0.0055**	**J**	0.040	0.0036	mg/Kg	☼	07/27/17 11:20	07/27/17 19:59	1
Naphthalene	**0.028**		0.0082	0.0029	mg/Kg	☼	07/27/17 11:20	07/27/17 19:59	1
Pentachlorophenol	ND		0.21	0.077	mg/Kg	☼	07/27/17 11:20	07/27/17 19:59	1
Phenanthrene	**0.31**		0.0082	0.0034	mg/Kg	☼	07/27/17 11:20	07/27/17 19:59	1
Phenol	ND		0.040	0.0055	mg/Kg	☼	07/27/17 11:20	07/27/17 19:59	1
Pyrene	**0.38**		0.0082	0.0036	mg/Kg	☼	07/27/17 11:20	07/27/17 19:59	1
Hexachloroethane	ND		40	2.9	ug/Kg	☼	07/27/17 11:20	07/27/17 19:59	1
Nitrobenzene	ND		81	3.1	ug/Kg	☼	07/27/17 11:20	07/27/17 19:59	1
Hexachlorobutadiene	ND		8.2	2.6	ug/Kg	☼	07/27/17 11:20	07/27/17 19:59	1
2,4,5-Trichlorophenol	ND		40	3.9	ug/Kg	☼	07/27/17 11:20	07/27/17 19:59	1
2,4,6-Trichlorophenol	ND		40	3.6	ug/Kg	☼	07/27/17 11:20	07/27/17 19:59	1
2,4-Dinitrotoluene	ND		40	5.4	ug/Kg	☼	07/27/17 11:20	07/27/17 19:59	1
Pyridine	ND		40	3.9	ug/Kg	☼	07/27/17 11:20	07/27/17 19:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*61*		*42 - 100*	*07/27/17 11:20*	*07/27/17 19:59*	*1*
2-Fluorophenol (Surr)	*56*		*21 - 107*	*07/27/17 11:20*	*07/27/17 19:59*	*1*
Nitrobenzene-d5 (Surr)	*53*		*35 - 109*	*07/27/17 11:20*	*07/27/17 19:59*	*1*
Phenol-d5 (Surr)	*55*		*29 - 105*	*07/27/17 11:20*	*07/27/17 19:59*	*1*
Terphenyl-d14 (Surr)	*56*		*36 - 113*	*07/27/17 11:20*	*07/27/17 19:59*	*1*
2,4,6-Tribromophenol (Surr)	*76*		*20 - 134*	*07/27/17 11:20*	*07/27/17 19:59*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.020	0.011	mg/Kg	☼	07/27/17 11:28	07/28/17 09:29	1
PCB-1221	ND		0.020	0.011	mg/Kg	☼	07/27/17 11:28	07/28/17 09:29	1
PCB-1232	ND		0.020	0.0081	mg/Kg	☼	07/27/17 11:28	07/28/17 09:29	1
PCB-1242	ND		0.020	0.016	mg/Kg	☼	07/27/17 11:28	07/28/17 09:29	1
PCB-1248	**0.98**		0.020	0.0097	mg/Kg	☼	07/27/17 11:28	07/28/17 09:29	1
PCB-1254	**0.43**		0.020	0.0089	mg/Kg	☼	07/27/17 11:28	07/28/17 09:29	1
PCB-1260	**0.059**		0.020	0.014	mg/Kg	☼	07/27/17 11:28	07/28/17 09:29	1
PCB-1262	ND		0.020	0.015	mg/Kg	☼	07/27/17 11:28	07/28/17 09:29	1
PCB-1268	ND		0.020	0.0062	mg/Kg	☼	07/27/17 11:28	07/28/17 09:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*90*		*23 - 150*	*07/27/17 11:28*	*07/28/17 09:29*	*1*

Client Sample ID: WB6-7, S2, C 72517 — Lab Sample ID: 180-68556-9

Date Collected: 07/25/17 16:40 — **Matrix: Solid**
Date Received: 07/26/17 07:30 — **Percent Solids: 82.0**

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	94		23 - 150	07/27/17 11:28	07/28/17 09:29	1
Tetrachloro-m-xylene (Surr)	80		27 - 138	07/27/17 11:28	07/28/17 09:29	1
Tetrachloro-m-xylene (Surr)	83		27 - 138	07/27/17 11:28	07/28/17 09:29	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.1		1.2	0.53	mg/Kg	☼	07/27/17 12:44	07/28/17 09:55	1
Barium	68		24	6.5	mg/Kg	☼	07/27/17 12:44	07/28/17 09:55	1
Beryllium	0.31	J	0.48	0.13	mg/Kg	☼	07/27/17 12:44	07/28/17 09:55	1
Cadmium	0.16	J	0.60	0.14	mg/Kg	☼	07/27/17 12:44	07/28/17 09:55	1
Chromium	10		0.60	0.16	mg/Kg	☼	07/27/17 12:44	07/28/17 09:55	1
Copper	35		3.0	0.93	mg/Kg	☼	07/27/17 12:44	07/28/17 09:55	1
Lead	28		1.2	0.40	mg/Kg	☼	07/27/17 12:44	07/28/17 09:55	1
Manganese	400		1.8	0.49	mg/Kg	☼	07/27/17 12:44	07/28/17 09:55	1
Nickel	18		4.8	1.1	mg/Kg	☼	07/27/17 12:44	07/28/17 09:55	1
Selenium	ND		1.2	0.48	mg/Kg	☼	07/27/17 12:44	07/28/17 09:55	1
Silver	ND		0.60	0.20	mg/Kg	☼	07/27/17 12:44	07/28/17 09:55	1
Zinc	55		2.4	1.2	mg/Kg	☼	07/27/17 12:44	07/28/17 09:55	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.033	J	0.042	0.0095	mg/Kg	☼	07/31/17 08:10	07/31/17 11:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	18.0		0.1	0.1	%			07/26/17 15:12	1
Percent Solids	82.0		0.1	0.1	%			07/26/17 15:12	1
Cyanide, Total	0.29	J	0.60	0.18	mg/Kg	☼	07/27/17 11:19	07/27/17 15:10	1

Client Sample ID: DUP 17 72517 — Lab Sample ID: 180-68556-10

Date Collected: 07/25/17 00:00 — **Matrix: Solid**
Date Received: 07/26/17 07:30 — **Percent Solids: 79.1**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.021	0.0033	mg/Kg	☼	07/27/17 05:30	07/27/17 11:18	1
Benzene	ND		0.0052	0.0021	mg/Kg	☼	07/27/17 05:30	07/27/17 11:18	1
2-Butanone (MEK)	ND		0.0052	0.0030	mg/Kg	☼	07/27/17 05:30	07/27/17 11:18	1
Carbon tetrachloride	ND		0.0052	0.0035	mg/Kg	☼	07/27/17 05:30	07/27/17 11:18	1
Chlorobenzene	ND		0.0052	0.0017	mg/Kg	☼	07/27/17 05:30	07/27/17 11:18	1
Chloroform	ND		0.0052	0.0022	mg/Kg	☼	07/27/17 05:30	07/27/17 11:18	1
cis-1,2-Dichloroethene	ND		0.0052	0.0017	mg/Kg	☼	07/27/17 05:30	07/27/17 11:18	1
1,2-Dichlorobenzene	ND		0.0052	0.0042	mg/Kg	☼	07/27/17 05:30	07/27/17 11:18	1
1,3-Dichlorobenzene	ND		0.0052	0.0017	mg/Kg	☼	07/27/17 05:30	07/27/17 11:18	1
1,4-Dichlorobenzene	ND		0.0052	0.0011	mg/Kg	☼	07/27/17 05:30	07/27/17 11:18	1
1,1-Dichloroethane	ND		0.0052	0.0019	mg/Kg	☼	07/27/17 05:30	07/27/17 11:18	1
1,2-Dichloroethane	ND		0.0052	0.0015	mg/Kg	☼	07/27/17 05:30	07/27/17 11:18	1
1,1-Dichloroethene	ND		0.0052	0.0030	mg/Kg	☼	07/27/17 05:30	07/27/17 11:18	1
Ethylbenzene	ND		0.0052	0.0023	mg/Kg	☼	07/27/17 05:30	07/27/17 11:18	1
Methylene Chloride	ND		0.0052	0.0025	mg/Kg	☼	07/27/17 05:30	07/27/17 11:18	1

Client Sample ID: DUP 17 72517

Lab Sample ID: 180-68556-10
Date Collected: 07/25/17 00:00
Matrix: Solid
Date Received: 07/26/17 07:30
Percent Solids: 79.1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.0052	0.0039	mg/Kg	☼	07/27/17 05:30	07/27/17 11:18	1
n-Butylbenzene	ND		0.0052	0.0040	mg/Kg	☼	07/27/17 05:30	07/27/17 11:18	1
N-Propylbenzene	ND		0.0052	0.0022	mg/Kg	☼	07/27/17 05:30	07/27/17 11:18	1
sec-Butylbenzene	ND		0.0052	0.0026	mg/Kg	☼	07/27/17 05:30	07/27/17 11:18	1
tert-Butylbenzene	ND		0.0052	0.0019	mg/Kg	☼	07/27/17 05:30	07/27/17 11:18	1
Tetrachloroethene	ND		0.0052	0.0021	mg/Kg	☼	07/27/17 05:30	07/27/17 11:18	1
Toluene	ND		0.0052	0.0018	mg/Kg	☼	07/27/17 05:30	07/27/17 11:18	1
trans-1,2-Dichloroethene	ND		0.0052	0.0027	mg/Kg	☼	07/27/17 05:30	07/27/17 11:18	1
1,1,1-Trichloroethane	ND		0.0052	0.0026	mg/Kg	☼	07/27/17 05:30	07/27/17 11:18	1
Trichloroethene	ND		0.0052	0.0016	mg/Kg	☼	07/27/17 05:30	07/27/17 11:18	1
1,2,4-Trimethylbenzene	ND		0.0052	0.0014	mg/Kg	☼	07/27/17 05:30	07/27/17 11:18	1
1,3,5-Trimethylbenzene	ND		0.0052	0.0018	mg/Kg	☼	07/27/17 05:30	07/27/17 11:18	1
Vinyl chloride	ND		0.0052	0.0039	mg/Kg	☼	07/27/17 05:30	07/27/17 11:18	1
Xylenes, Total	ND		0.010	0.0045	mg/Kg	☼	07/27/17 05:30	07/27/17 11:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*63 - 120*	*07/27/17 05:30*	*07/27/17 11:18*	*1*
Dibromofluoromethane (Surr)	*98*		*68 - 121*	*07/27/17 05:30*	*07/27/17 11:18*	*1*
1,2-Dichloroethane-d4 (Surr)	*89*		*52 - 124*	*07/27/17 05:30*	*07/27/17 11:18*	*1*
Toluene-d8 (Surr)	*108*		*72 - 127*	*07/27/17 05:30*	*07/27/17 11:18*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**20.9**		0.1	0.1	%			07/26/17 15:12	1
Percent Solids	**79.1**		0.1	0.1	%			07/26/17 15:12	1

Client Sample ID: TRIP BLANK

Lab Sample ID: 180-68556-11
Date Collected: 07/25/17 00:00
Matrix: Water
Date Received: 07/26/17 07:30

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**5.1**		5.0	3.1	ug/L			07/27/17 05:26	1
Benzene	ND		1.0	0.18	ug/L			07/27/17 05:26	1
2-Butanone (MEK)	ND		5.0	2.6	ug/L			07/27/17 05:26	1
Carbon tetrachloride	ND		1.0	0.56	ug/L			07/27/17 05:26	1
Chlorobenzene	ND		1.0	0.15	ug/L			07/27/17 05:26	1
Chloroform	ND		1.0	0.27	ug/L			07/27/17 05:26	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			07/27/17 05:26	1
1,2-Dichlorobenzene	ND		1.0	0.23	ug/L			07/27/17 05:26	1
1,3-Dichlorobenzene	ND		1.0	0.21	ug/L			07/27/17 05:26	1
1,4-Dichlorobenzene	ND		1.0	0.24	ug/L			07/27/17 05:26	1
1,1-Dichloroethane	ND		1.0	0.34	ug/L			07/27/17 05:26	1
1,2-Dichloroethane	ND		1.0	0.24	ug/L			07/27/17 05:26	1
1,1-Dichloroethene	ND		1.0	0.32	ug/L			07/27/17 05:26	1
Ethylbenzene	ND		1.0	0.25	ug/L			07/27/17 05:26	1
Methylene Chloride	ND		1.0	0.94	ug/L			07/27/17 05:26	1
Methyl tert-butyl ether	ND		1.0	0.20	ug/L			07/27/17 05:26	1
n-Butylbenzene	ND		1.0	0.22	ug/L			07/27/17 05:26	1
N-Propylbenzene	ND		1.0	0.20	ug/L			07/27/17 05:26	1

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68556-1

Client Sample ID: TRIP BLANK
Date Collected: 07/25/17 00:00
Date Received: 07/26/17 07:30

Lab Sample ID: 180-68556-11
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.22	ug/L			07/27/17 05:26	1
tert-Butylbenzene	ND		1.0	0.17	ug/L			07/27/17 05:26	1
Tetrachloroethene	ND		1.0	0.24	ug/L			07/27/17 05:26	1
Toluene	ND		1.0	0.16	ug/L			07/27/17 05:26	1
trans-1,2-Dichloroethene	ND		1.0	0.20	ug/L			07/27/17 05:26	1
1,1,1-Trichloroethane	ND		1.0	0.27	ug/L			07/27/17 05:26	1
Trichloroethene	ND		1.0	0.20	ug/L			07/27/17 05:26	1
1,2,4-Trimethylbenzene	ND		1.0	0.18	ug/L			07/27/17 05:26	1
1,3,5-Trimethylbenzene	ND		1.0	0.17	ug/L			07/27/17 05:26	1
Vinyl chloride	ND		1.0	0.17	ug/L			07/27/17 05:26	1
Xylenes, Total	ND		2.0	0.27	ug/L			07/27/17 05:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*72 - 120*		*07/27/17 05:26*	*1*
Dibromofluoromethane (Surr)	*86*		*77 - 127*		*07/27/17 05:26*	*1*
1,2-Dichloroethane-d4 (Surr)	*78*		*72 - 134*		*07/27/17 05:26*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*07/27/17 05:26*	*1*

Method: 8260C - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 180-218214/6
Matrix: Water
Analysis Batch: 218214

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		5.0	3.1	ug/L			07/27/17 03:15	1
Benzene	ND		1.0	0.18	ug/L			07/27/17 03:15	1
2-Butanone (MEK)	ND		5.0	2.6	ug/L			07/27/17 03:15	1
Carbon tetrachloride	ND		1.0	0.56	ug/L			07/27/17 03:15	1
Chlorobenzene	ND		1.0	0.15	ug/L			07/27/17 03:15	1
Chloroform	ND		1.0	0.27	ug/L			07/27/17 03:15	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			07/27/17 03:15	1
1,2-Dichlorobenzene	ND		1.0	0.23	ug/L			07/27/17 03:15	1
1,3-Dichlorobenzene	ND		1.0	0.21	ug/L			07/27/17 03:15	1
1,4-Dichlorobenzene	ND		1.0	0.24	ug/L			07/27/17 03:15	1
1,1-Dichloroethane	ND		1.0	0.34	ug/L			07/27/17 03:15	1
1,2-Dichloroethane	ND		1.0	0.24	ug/L			07/27/17 03:15	1
1,1-Dichloroethene	ND		1.0	0.32	ug/L			07/27/17 03:15	1
Ethylbenzene	ND		1.0	0.25	ug/L			07/27/17 03:15	1
Methylene Chloride	ND		1.0	0.94	ug/L			07/27/17 03:15	1
Methyl tert-butyl ether	ND		1.0	0.20	ug/L			07/27/17 03:15	1
n-Butylbenzene	ND		1.0	0.22	ug/L			07/27/17 03:15	1
N-Propylbenzene	ND		1.0	0.20	ug/L			07/27/17 03:15	1
sec-Butylbenzene	ND		1.0	0.22	ug/L			07/27/17 03:15	1
tert-Butylbenzene	ND		1.0	0.17	ug/L			07/27/17 03:15	1
Tetrachloroethene	ND		1.0	0.24	ug/L			07/27/17 03:15	1
Toluene	ND		1.0	0.16	ug/L			07/27/17 03:15	1
trans-1,2-Dichloroethene	ND		1.0	0.20	ug/L			07/27/17 03:15	1
1,1,1-Trichloroethane	ND		1.0	0.27	ug/L			07/27/17 03:15	1
Trichloroethene	ND		1.0	0.20	ug/L			07/27/17 03:15	1
1,2,4-Trimethylbenzene	ND		1.0	0.18	ug/L			07/27/17 03:15	1
1,3,5-Trimethylbenzene	ND		1.0	0.17	ug/L			07/27/17 03:15	1
Vinyl chloride	ND		1.0	0.17	ug/L			07/27/17 03:15	1
Xylenes, Total	ND		2.0	0.27	ug/L			07/27/17 03:15	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*72 - 120*		*07/27/17 03:15*	*1*
Dibromofluoromethane (Surr)	*82*		*77 - 127*		*07/27/17 03:15*	*1*
1,2-Dichloroethane-d4 (Surr)	*75*		*72 - 134*		*07/27/17 03:15*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*07/27/17 03:15*	*1*

Lab Sample ID: LCS 180-218214/3
Matrix: Water
Analysis Batch: 218214

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	20.0	20.1		ug/L		100	10 - 150
Benzene	10.0	10.2		ug/L		102	80 - 121
2-Butanone (MEK)	20.0	20.0		ug/L		100	41 - 150
Carbon tetrachloride	10.0	9.77		ug/L		98	59 - 145
Chlorobenzene	10.0	10.3		ug/L		103	80 - 120
Chloroform	10.0	9.71		ug/L		97	78 - 122
cis-1,2-Dichloroethene	10.0	9.86		ug/L		99	80 - 120

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 180-218214/3
Matrix: Water
Analysis Batch: 218214

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichlorobenzene	10.0	10.1		ug/L		101	80 - 120
1,3-Dichlorobenzene	10.0	10.1		ug/L		101	80 - 120
1,4-Dichlorobenzene	10.0	10.1		ug/L		101	80 - 120
1,1-Dichloroethane	10.0	10.0		ug/L		100	76 - 126
1,2-Dichloroethane	10.0	8.83		ug/L		88	72 - 126
1,1-Dichloroethene	10.0	9.57		ug/L		96	71 - 122
Ethylbenzene	10.0	10.4		ug/L		104	80 - 123
Methylene Chloride	10.0	9.58		ug/L		96	71 - 129
Methyl tert-butyl ether	10.0	9.01		ug/L		90	68 - 124
n-Butylbenzene	10.0	11.2		ug/L		112	75 - 120
N-Propylbenzene	10.0	10.6		ug/L		106	78 - 121
sec-Butylbenzene	10.0	11.3		ug/L		113	80 - 121
tert-Butylbenzene	10.0	11.1		ug/L		111	79 - 120
Tetrachloroethene	10.0	10.1		ug/L		101	80 - 122
Toluene	10.0	11.0		ug/L		110	80 - 125
trans-1,2-Dichloroethene	10.0	9.94		ug/L		99	80 - 121
1,1,1-Trichloroethane	10.0	9.83		ug/L		98	57 - 128
Trichloroethene	10.0	9.85		ug/L		99	79 - 120
1,2,4-Trimethylbenzene	10.0	10.8		ug/L		108	80 - 120
1,3,5-Trimethylbenzene	10.0	11.2		ug/L		112	80 - 122
Vinyl chloride	10.0	10.1		ug/L		101	61 - 138
Xylenes, Total	20.0	21.0		ug/L		105	80 - 123

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*72 - 120*
Dibromofluoromethane (Surr)	*95*		*77 - 127*
1,2-Dichloroethane-d4 (Surr)	*87*		*72 - 134*
Toluene-d8 (Surr)	*112*		*80 - 120*

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 180-218225/7
Matrix: Solid
Analysis Batch: 218225

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.020	0.0032	mg/Kg			07/27/17 08:40	1
Benzene	ND		0.0050	0.0020	mg/Kg			07/27/17 08:40	1
2-Butanone (MEK)	ND		0.0050	0.0029	mg/Kg			07/27/17 08:40	1
Carbon tetrachloride	ND		0.0050	0.0033	mg/Kg			07/27/17 08:40	1
Chlorobenzene	ND		0.0050	0.0016	mg/Kg			07/27/17 08:40	1
Chloroform	ND		0.0050	0.0021	mg/Kg			07/27/17 08:40	1
cis-1,2-Dichloroethene	ND		0.0050	0.0016	mg/Kg			07/27/17 08:40	1
1,2-Dichlorobenzene	ND		0.0050	0.0040	mg/Kg			07/27/17 08:40	1
1,3-Dichlorobenzene	ND		0.0050	0.0016	mg/Kg			07/27/17 08:40	1
1,4-Dichlorobenzene	ND		0.0050	0.0010	mg/Kg			07/27/17 08:40	1
1,1-Dichloroethane	ND		0.0050	0.0018	mg/Kg			07/27/17 08:40	1
1,2-Dichloroethane	ND		0.0050	0.0015	mg/Kg			07/27/17 08:40	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 180-218225/7
Matrix: Solid
Analysis Batch: 218225

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		0.0050	0.0029	mg/Kg			07/27/17 08:40	1
Ethylbenzene	ND		0.0050	0.0022	mg/Kg			07/27/17 08:40	1
Methylene Chloride	ND		0.0050	0.0024	mg/Kg			07/27/17 08:40	1
Methyl tert-butyl ether	ND		0.0050	0.0037	mg/Kg			07/27/17 08:40	1
n-Butylbenzene	ND		0.0050	0.0038	mg/Kg			07/27/17 08:40	1
N-Propylbenzene	ND		0.0050	0.0021	mg/Kg			07/27/17 08:40	1
sec-Butylbenzene	ND		0.0050	0.0024	mg/Kg			07/27/17 08:40	1
tert-Butylbenzene	ND		0.0050	0.0018	mg/Kg			07/27/17 08:40	1
Tetrachloroethene	ND		0.0050	0.0020	mg/Kg			07/27/17 08:40	1
Toluene	ND		0.0050	0.0017	mg/Kg			07/27/17 08:40	1
trans-1,2-Dichloroethene	ND		0.0050	0.0025	mg/Kg			07/27/17 08:40	1
1,1,1-Trichloroethane	ND		0.0050	0.0025	mg/Kg			07/27/17 08:40	1
Trichloroethene	ND		0.0050	0.0015	mg/Kg			07/27/17 08:40	1
1,2,4-Trimethylbenzene	ND		0.0050	0.0013	mg/Kg			07/27/17 08:40	1
1,3,5-Trimethylbenzene	ND		0.0050	0.0017	mg/Kg			07/27/17 08:40	1
Vinyl chloride	ND		0.0050	0.0037	mg/Kg			07/27/17 08:40	1
Xylenes, Total	ND		0.010	0.0043	mg/Kg			07/27/17 08:40	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*63 - 120*		*07/27/17 08:40*	*1*
Dibromofluoromethane (Surr)	*102*		*68 - 121*		*07/27/17 08:40*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*52 - 124*		*07/27/17 08:40*	*1*
Toluene-d8 (Surr)	*103*		*72 - 127*		*07/27/17 08:40*	*1*

Lab Sample ID: LCS 180-218225/3
Matrix: Solid
Analysis Batch: 218225

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0400	0.0431		mg/Kg		108	20 - 150
Benzene	0.0400	0.0402		mg/Kg		101	77 - 120
2-Butanone (MEK)	0.0400	0.0413		mg/Kg		103	35 - 149
Carbon tetrachloride	0.0400	0.0433		mg/Kg		108	69 - 122
Chlorobenzene	0.0400	0.0395		mg/Kg		99	79 - 120
Chloroform	0.0400	0.0421		mg/Kg		105	72 - 120
cis-1,2-Dichloroethene	0.0400	0.0414		mg/Kg		103	80 - 118
1,2-Dichlorobenzene	0.0400	0.0399		mg/Kg		100	71 - 124
1,3-Dichlorobenzene	0.0400	0.0403		mg/Kg		101	75 - 118
1,4-Dichlorobenzene	0.0400	0.0405		mg/Kg		101	77 - 116
1,1-Dichloroethane	0.0400	0.0420		mg/Kg		105	66 - 124
1,2-Dichloroethane	0.0400	0.0407		mg/Kg		102	61 - 127
1,1-Dichloroethene	0.0400	0.0425		mg/Kg		106	59 - 129
Ethylbenzene	0.0400	0.0400		mg/Kg		100	78 - 125
Methylene Chloride	0.0400	0.0417		mg/Kg		104	58 - 127
Methyl tert-butyl ether	0.0400	0.0425		mg/Kg		106	48 - 132
n-Butylbenzene	0.0400	0.0447		mg/Kg		112	59 - 145
N-Propylbenzene	0.0400	0.0419		mg/Kg		105	80 - 120
sec-Butylbenzene	0.0400	0.0436		mg/Kg		109	70 - 130

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 180-218225/3
Matrix: Solid
Analysis Batch: 218225

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
tert-Butylbenzene	0.0400	0.0424		mg/Kg		106	74 - 133
Tetrachloroethene	0.0400	0.0388		mg/Kg		97	78 - 129
Toluene	0.0400	0.0390		mg/Kg		98	78 - 124
trans-1,2-Dichloroethene	0.0400	0.0425		mg/Kg		106	77 - 121
1,1,1-Trichloroethane	0.0400	0.0441		mg/Kg		110	67 - 126
Trichloroethene	0.0400	0.0399		mg/Kg		100	76 - 119
1,2,4-Trimethylbenzene	0.0400	0.0423		mg/Kg		106	80 - 121
1,3,5-Trimethylbenzene	0.0400	0.0422		mg/Kg		106	68 - 133
Vinyl chloride	0.0400	0.0405		mg/Kg		101	63 - 124
Xylenes, Total	0.0800	0.0797		mg/Kg		100	83 - 126

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*63 - 120*
Dibromofluoromethane (Surr)	*102*		*68 - 121*
1,2-Dichloroethane-d4 (Surr)	*102*		*52 - 124*
Toluene-d8 (Surr)	*99*		*72 - 127*

Lab Sample ID: 180-68556-1 MS
Matrix: Solid
Analysis Batch: 218225

Client Sample ID: WB7-8, S5, A 72517
Prep Type: Total/NA
Prep Batch: 218236

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	ND		0.0439	0.0306		mg/Kg	☼	70	20 - 150
Benzene	ND		0.0439	0.0474		mg/Kg	☼	108	77 - 120
2-Butanone (MEK)	ND		0.0439	0.0290		mg/Kg	☼	66	35 - 149
Carbon tetrachloride	ND	F1	0.0439	0.0555	F1	mg/Kg	☼	127	69 - 122
Chlorobenzene	ND		0.0439	0.0468		mg/Kg	☼	107	79 - 120
Chloroform	ND		0.0439	0.0484		mg/Kg	☼	110	72 - 120
cis-1,2-Dichloroethene	ND		0.0439	0.0477		mg/Kg	☼	109	80 - 118
1,2-Dichlorobenzene	ND		0.0439	0.0442		mg/Kg	☼	101	71 - 124
1,3-Dichlorobenzene	ND		0.0439	0.0481		mg/Kg	☼	110	75 - 118
1,4-Dichlorobenzene	ND		0.0439	0.0473		mg/Kg	☼	108	77 - 116
1,1-Dichloroethane	ND		0.0439	0.0497		mg/Kg	☼	113	66 - 124
1,2-Dichloroethane	ND		0.0439	0.0395		mg/Kg	☼	90	61 - 127
1,1-Dichloroethene	ND		0.0439	0.0506		mg/Kg	☼	115	59 - 129
Ethylbenzene	ND		0.0439	0.0493		mg/Kg	☼	112	78 - 125
Methylene Chloride	ND		0.0439	0.0446		mg/Kg	☼	102	58 - 127
Methyl tert-butyl ether	ND		0.0439	0.0366		mg/Kg	☼	83	48 - 132
n-Butylbenzene	ND		0.0439	0.0546		mg/Kg	☼	124	59 - 145
N-Propylbenzene	ND	F1	0.0439	0.0553	F1	mg/Kg	☼	126	80 - 120
sec-Butylbenzene	ND		0.0439	0.0557		mg/Kg	☼	127	70 - 130
tert-Butylbenzene	ND		0.0439	0.0566		mg/Kg	☼	129	74 - 133
Tetrachloroethene	ND		0.0439	0.0497		mg/Kg	☼	113	78 - 129
Toluene	ND		0.0439	0.0488		mg/Kg	☼	111	78 - 124
trans-1,2-Dichloroethene	ND		0.0439	0.0515		mg/Kg	☼	117	77 - 121
1,1,1-Trichloroethane	ND	F1	0.0439	0.0558	F1	mg/Kg	☼	127	67 - 126
Trichloroethene	ND		0.0439	0.0480		mg/Kg	☼	109	76 - 119
1,2,4-Trimethylbenzene	ND	F1	0.0439	0.0532		mg/Kg	☼	121	80 - 121

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 180-68556-1 MS
Matrix: Solid
Analysis Batch: 218225

Client Sample ID: WB7-8, S5, A 72517
Prep Type: Total/NA
Prep Batch: 218236

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,3,5-Trimethylbenzene	ND		0.0439	0.0543		mg/Kg	☼	124	68 - 133
Vinyl chloride	ND		0.0439	0.0483		mg/Kg	☼	110	63 - 124
Xylenes, Total	ND		0.0878	0.0961		mg/Kg	☼	109	83 - 126

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*63 - 120*
Dibromofluoromethane (Surr)	*104*		*68 - 121*
1,2-Dichloroethane-d4 (Surr)	*87*		*52 - 124*
Toluene-d8 (Surr)	*110*		*72 - 127*

Lab Sample ID: 180-68556-1 MSD
Matrix: Solid
Analysis Batch: 218225

Client Sample ID: WB7-8, S5, A 72517
Prep Type: Total/NA
Prep Batch: 218236

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	ND		0.0429	0.0321		mg/Kg	☼	75	20 - 150	5	40
Benzene	ND		0.0429	0.0468		mg/Kg	☼	109	77 - 120	1	20
2-Butanone (MEK)	ND		0.0429	0.0316		mg/Kg	☼	74	35 - 149	8	36
Carbon tetrachloride	ND	F1	0.0429	0.0530	F1	mg/Kg	☼	124	69 - 122	5	22
Chlorobenzene	ND		0.0429	0.0463		mg/Kg	☼	108	79 - 120	1	20
Chloroform	ND		0.0429	0.0484		mg/Kg	☼	113	72 - 120	0	25
cis-1,2-Dichloroethene	ND		0.0429	0.0472		mg/Kg	☼	110	80 - 118	1	20
1,2-Dichlorobenzene	ND		0.0429	0.0447		mg/Kg	☼	104	71 - 124	1	22
1,3-Dichlorobenzene	ND		0.0429	0.0477		mg/Kg	☼	111	75 - 118	1	20
1,4-Dichlorobenzene	ND		0.0429	0.0472		mg/Kg	☼	110	77 - 116	0	20
1,1-Dichloroethane	ND		0.0429	0.0492		mg/Kg	☼	115	66 - 124	1	23
1,2-Dichloroethane	ND		0.0429	0.0408		mg/Kg	☼	95	61 - 127	3	23
1,1-Dichloroethene	ND		0.0429	0.0504		mg/Kg	☼	118	59 - 129	0	25
Ethylbenzene	ND		0.0429	0.0482		mg/Kg	☼	113	78 - 125	2	21
Methylene Chloride	ND		0.0429	0.0447		mg/Kg	☼	104	58 - 127	0	28
Methyl tert-butyl ether	ND		0.0429	0.0391		mg/Kg	☼	91	48 - 132	7	36
n-Butylbenzene	ND		0.0429	0.0519		mg/Kg	☼	121	59 - 145	5	24
N-Propylbenzene	ND	F1	0.0429	0.0532	F1	mg/Kg	☼	124	80 - 120	4	20
sec-Butylbenzene	ND		0.0429	0.0533		mg/Kg	☼	124	70 - 130	4	21
tert-Butylbenzene	ND		0.0429	0.0546		mg/Kg	☼	127	74 - 133	4	22
Tetrachloroethene	ND		0.0429	0.0472		mg/Kg	☼	110	78 - 129	5	20
Toluene	ND		0.0429	0.0480		mg/Kg	☼	112	78 - 124	2	21
trans-1,2-Dichloroethene	ND		0.0429	0.0499		mg/Kg	☼	116	77 - 121	3	20
1,1,1-Trichloroethane	ND	F1	0.0429	0.0529		mg/Kg	☼	123	67 - 126	5	31
Trichloroethene	ND		0.0429	0.0469		mg/Kg	☼	110	76 - 119	2	21
1,2,4-Trimethylbenzene	ND	F1	0.0429	0.0525	F1	mg/Kg	☼	123	80 - 121	1	20
1,3,5-Trimethylbenzene	ND		0.0429	0.0533		mg/Kg	☼	124	68 - 133	2	21
Vinyl chloride	ND		0.0429	0.0478		mg/Kg	☼	112	63 - 124	1	27
Xylenes, Total	ND		0.0857	0.0965		mg/Kg	☼	113	83 - 126	0	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*63 - 120*

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 180-68556-1 MSD
Matrix: Solid
Analysis Batch: 218225

Client Sample ID: WB7-8, S5, A 72517
Prep Type: Total/NA
Prep Batch: 218236

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Dibromofluoromethane (Surr)	*101*		*68 - 121*
1,2-Dichloroethane-d4 (Surr)	*89*		*52 - 124*
Toluene-d8 (Surr)	*106*		*72 - 127*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Lab Sample ID: MB 180-218278/1-A
Matrix: Solid
Analysis Batch: 218265

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 218278

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0067	0.0022	mg/Kg		07/27/17 11:20	07/27/17 17:17	1
Acenaphthylene	ND		0.0067	0.0023	mg/Kg		07/27/17 11:20	07/27/17 17:17	1
Anthracene	ND		0.0067	0.0025	mg/Kg		07/27/17 11:20	07/27/17 17:17	1
Benzo[a]anthracene	ND		0.0067	0.0026	mg/Kg		07/27/17 11:20	07/27/17 17:17	1
Benzo[a]pyrene	ND		0.0067	0.0028	mg/Kg		07/27/17 11:20	07/27/17 17:17	1
Benzo[b]fluoranthene	ND		0.0067	0.0029	mg/Kg		07/27/17 11:20	07/27/17 17:17	1
Benzo[g,h,i]perylene	ND		0.0067	0.0029	mg/Kg		07/27/17 11:20	07/27/17 17:17	1
Benzo[k]fluoranthene	ND		0.0067	0.0023	mg/Kg		07/27/17 11:20	07/27/17 17:17	1
Chrysene	ND		0.0067	0.0026	mg/Kg		07/27/17 11:20	07/27/17 17:17	1
Dibenz(a,h)anthracene	ND		0.0067	0.0028	mg/Kg		07/27/17 11:20	07/27/17 17:17	1
Dibenzofuran	ND		0.033	0.0027	mg/Kg		07/27/17 11:20	07/27/17 17:17	1
1,4-Dioxane	ND		0.067	0.0050	mg/Kg		07/27/17 11:20	07/27/17 17:17	1
Fluoranthene	ND		0.0067	0.0026	mg/Kg		07/27/17 11:20	07/27/17 17:17	1
Fluorene	ND		0.0067	0.0024	mg/Kg		07/27/17 11:20	07/27/17 17:17	1
Hexachlorobenzene	ND		0.0067	0.0027	mg/Kg		07/27/17 11:20	07/27/17 17:17	1
Indeno[1,2,3-cd]pyrene	ND		0.0067	0.0026	mg/Kg		07/27/17 11:20	07/27/17 17:17	1
2-Methylphenol	ND		0.033	0.0029	mg/Kg		07/27/17 11:20	07/27/17 17:17	1
Methylphenol, 3 & 4	ND		0.033	0.0030	mg/Kg		07/27/17 11:20	07/27/17 17:17	1
Naphthalene	ND		0.0067	0.0024	mg/Kg		07/27/17 11:20	07/27/17 17:17	1
Pentachlorophenol	ND		0.17	0.063	mg/Kg		07/27/17 11:20	07/27/17 17:17	1
Phenanthrene	ND		0.0067	0.0028	mg/Kg		07/27/17 11:20	07/27/17 17:17	1
Phenol	ND		0.033	0.0045	mg/Kg		07/27/17 11:20	07/27/17 17:17	1
Pyrene	ND		0.0067	0.0030	mg/Kg		07/27/17 11:20	07/27/17 17:17	1
Hexachloroethane	ND		33	2.4	ug/Kg		07/27/17 11:20	07/27/17 17:17	1
Nitrobenzene	ND		67	2.5	ug/Kg		07/27/17 11:20	07/27/17 17:17	1
Hexachlorobutadiene	ND		6.7	2.1	ug/Kg		07/27/17 11:20	07/27/17 17:17	1
2,4,5-Trichlorophenol	ND		33	3.2	ug/Kg		07/27/17 11:20	07/27/17 17:17	1
2,4,6-Trichlorophenol	ND		33	2.9	ug/Kg		07/27/17 11:20	07/27/17 17:17	1
2,4-Dinitrotoluene	ND		33	4.4	ug/Kg		07/27/17 11:20	07/27/17 17:17	1
Pyridine	ND		33	3.2	ug/Kg		07/27/17 11:20	07/27/17 17:17	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	*54*		*42 - 100*	*07/27/17 11:20*	*07/27/17 17:17*	*1*
2-Fluorophenol (Surr)	*57*		*21 - 107*	*07/27/17 11:20*	*07/27/17 17:17*	*1*
Nitrobenzene-d5 (Surr)	*50*		*35 - 109*	*07/27/17 11:20*	*07/27/17 17:17*	*1*
Phenol-d5 (Surr)	*53*		*29 - 105*	*07/27/17 11:20*	*07/27/17 17:17*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: MB 180-218278/1-A
Matrix: Solid
Analysis Batch: 218265

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 218278

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14 (Surr)	*54*		*36 - 113*	*07/27/17 11:20*	*07/27/17 17:17*	*1*
2,4,6-Tribromophenol (Surr)	*66*		*20 - 134*	*07/27/17 11:20*	*07/27/17 17:17*	*1*

Lab Sample ID: LCS 180-218278/2-A
Matrix: Solid
Analysis Batch: 218265

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 218278

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	0.667	0.341		mg/Kg		51	39 - 100
Acenaphthylene	0.667	0.351		mg/Kg		53	42 - 100
Anthracene	0.667	0.364		mg/Kg		55	43 - 100
Benzo[a]anthracene	0.667	0.369		mg/Kg		55	43 - 100
Benzo[a]pyrene	0.667	0.374		mg/Kg		56	43 - 100
Benzo[b]fluoranthene	0.667	0.350		mg/Kg		53	40 - 100
Benzo[g,h,i]perylene	0.667	0.422		mg/Kg		63	41 - 102
Benzo[k]fluoranthene	0.667	0.346		mg/Kg		52	44 - 100
Chrysene	0.667	0.390		mg/Kg		58	44 - 100
Dibenz(a,h)anthracene	0.667	0.414		mg/Kg		62	40 - 104
Dibenzofuran	0.667	0.380		mg/Kg		57	42 - 100
1,4-Dioxane	0.667	0.404		mg/Kg		61	19 - 107
Fluoranthene	0.667	0.404		mg/Kg		61	41 - 104
Fluorene	0.667	0.374		mg/Kg		56	41 - 100
Hexachlorobenzene	0.667	0.383		mg/Kg		57	43 - 100
Indeno[1,2,3-cd]pyrene	0.667	0.413		mg/Kg		62	41 - 104
2-Methylphenol	0.667	0.369		mg/Kg		55	38 - 100
Methylphenol, 3 & 4	0.667	0.373		mg/Kg		56	40 - 100
Naphthalene	0.667	0.351		mg/Kg		53	38 - 100
Pentachlorophenol	1.33	0.723		mg/Kg		54	34 - 102
Phenanthrene	0.667	0.355		mg/Kg		53	41 - 100
Phenol	0.667	0.357		mg/Kg		54	36 - 100
Pyrene	0.667	0.352		mg/Kg		53	42 - 100
Hexachloroethane	667	364		ug/Kg		55	35 - 100
Nitrobenzene	667	310		ug/Kg		47	34 - 100
Hexachlorobutadiene	667	425		ug/Kg		64	35 - 100
2,4,5-Trichlorophenol	667	387		ug/Kg		58	42 - 100
2,4,6-Trichlorophenol	667	380		ug/Kg		57	41 - 103
2,4-Dinitrotoluene	667	437		ug/Kg		66	42 - 110
Pyridine	1330	863		ug/Kg		65	25 - 119

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	*48*		*42 - 100*
2-Fluorophenol (Surr)	*58*		*21 - 107*
Nitrobenzene-d5 (Surr)	*45*		*35 - 109*
Phenol-d5 (Surr)	*54*		*29 - 105*
Terphenyl-d14 (Surr)	*54*		*36 - 113*
2,4,6-Tribromophenol (Surr)	*63*		*20 - 134*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: 180-68556-3 MS
Matrix: Solid
Analysis Batch: 218265

Client Sample ID: WB7-8, S5, C 72517
Prep Type: Total/NA
Prep Batch: 218278

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	0.0091	F2	0.885	0.357		mg/Kg	☼	39	39 - 100
Acenaphthylene	0.038	F2 F1	0.885	0.393	F1	mg/Kg	☼	40	42 - 100
Anthracene	0.036	F2 F1	0.885	0.398	F1	mg/Kg	☼	41	43 - 100
Benzo[a]anthracene	0.097	F2 F1	0.885	0.471	F1	mg/Kg	☼	42	43 - 100
Benzo[a]pyrene	0.10	F2	0.885	0.480		mg/Kg	☼	43	43 - 100
Benzo[b]fluoranthene	0.14	F2 F1	0.885	0.475	F1	mg/Kg	☼	38	40 - 100
Benzo[g,h,i]perylene	0.096	F2	0.885	0.561		mg/Kg	☼	52	41 - 102
Benzo[k]fluoranthene	0.051	F2 F1	0.885	0.424	F1	mg/Kg	☼	42	44 - 100
Chrysene	0.11	F2	0.885	0.509		mg/Kg	☼	44	44 - 100
Dibenz(a,h)anthracene	0.024	F2	0.885	0.442		mg/Kg	☼	47	40 - 104
Dibenzofuran	0.0075	J F2	0.885	0.383		mg/Kg	☼	42	42 - 100
1,4-Dioxane	ND	F2	0.885	0.407		mg/Kg	☼	46	19 - 107
Fluoranthene	0.18	F2	0.885	0.563		mg/Kg	☼	43	41 - 104
Fluorene	0.011	F2	0.885	0.391		mg/Kg	☼	43	41 - 100
Hexachlorobenzene	ND	F2	0.885	0.382		mg/Kg	☼	43	43 - 100
Indeno[1,2,3-cd]pyrene	0.082	F2	0.885	0.524		mg/Kg	☼	50	41 - 104
2-Methylphenol	ND	F2	0.885	0.390		mg/Kg	☼	44	38 - 100
Methylphenol, 3 & 4	0.012	J F2	0.885	0.390		mg/Kg	☼	43	40 - 100
Naphthalene	0.015	F2	0.885	0.396		mg/Kg	☼	43	38 - 100
Pentachlorophenol	ND	F2	1.77	0.610		mg/Kg	☼	34	34 - 102
Phenanthrene	0.085	F2 F1	0.885	0.404	F1	mg/Kg	☼	36	41 - 100
Phenol	ND	F2	0.885	0.362		mg/Kg	☼	41	36 - 100
Pyrene	0.15	F2 F1	0.885	0.477	F1	mg/Kg	☼	37	42 - 100
Hexachloroethane	ND	F2	885	401		ug/Kg	☼	45	35 - 100
Nitrobenzene	ND	F2	885	330		ug/Kg	☼	37	34 - 100
Hexachlorobutadiene	ND	F2	885	451		ug/Kg	☼	51	35 - 100
2,4,5-Trichlorophenol	ND	F2	885	385		ug/Kg	☼	43	42 - 100
2,4,6-Trichlorophenol	ND	F2	885	381		ug/Kg	☼	43	41 - 103
2,4-Dinitrotoluene	ND	F2	885	417		ug/Kg	☼	47	42 - 110
Pyridine	ND	F2 F1	1770	399	F1	ug/Kg	☼	23	25 - 119

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl	*45*		*42 - 100*
2-Fluorophenol (Surr)	*54*		*21 - 107*
Nitrobenzene-d5 (Surr)	*43*		*35 - 109*
Phenol-d5 (Surr)	*49*		*29 - 105*
Terphenyl-d14 (Surr)	*44*		*36 - 113*
2,4,6-Tribromophenol (Surr)	*60*		*20 - 134*

Lab Sample ID: 180-68556-3 MSD
Matrix: Solid
Analysis Batch: 218265

Client Sample ID: WB7-8, S5, C 72517
Prep Type: Total/NA
Prep Batch: 218278

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	0.0091	F2	0.885	0.531	F2	mg/Kg	☼	59	39 - 100	39	20
Acenaphthylene	0.038	F2 F1	0.885	0.576	F2	mg/Kg	☼	61	42 - 100	38	20
Anthracene	0.036	F2 F1	0.885	0.613	F2	mg/Kg	☼	65	43 - 100	43	20
Benzo[a]anthracene	0.097	F2 F1	0.885	0.681	F2	mg/Kg	☼	66	43 - 100	36	20

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: 180-68556-3 MSD
Matrix: Solid
Analysis Batch: 218265

Client Sample ID: WB7-8, S5, C 72517
Prep Type: Total/NA
Prep Batch: 218278

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzo[a]pyrene	0.10	F2	0.885	0.695	F2	mg/Kg	☼	67	43 - 100	37	20
Benzo[b]fluoranthene	0.14	F2 F1	0.885	0.664	F2	mg/Kg	☼	59	40 - 100	33	20
Benzo[g,h,i]perylene	0.096	F2	0.885	0.858	F2	mg/Kg	☼	86	41 - 102	42	20
Benzo[k]fluoranthene	0.051	F2 F1	0.885	0.588	F2	mg/Kg	☼	61	44 - 100	33	20
Chrysene	0.11	F2	0.885	0.722	F2	mg/Kg	☼	69	44 - 100	35	20
Dibenz(a,h)anthracene	0.024	F2	0.885	0.728	F2	mg/Kg	☼	79	40 - 104	49	26
Dibenzofuran	0.0075	J F2	0.885	0.570	F2	mg/Kg	☼	64	42 - 100	39	23
1,4-Dioxane	ND	F2	0.885	0.530	F2	mg/Kg	☼	60	19 - 107	26	20
Fluoranthene	0.18	F2	0.885	0.793	F2	mg/Kg	☼	69	41 - 104	34	20
Fluorene	0.011	F2	0.885	0.580	F2	mg/Kg	☼	64	41 - 100	39	21
Hexachlorobenzene	ND	F2	0.885	0.594	F2	mg/Kg	☼	67	43 - 100	43	21
Indeno[1,2,3-cd]pyrene	0.082	F2	0.885	0.802	F2	mg/Kg	☼	81	41 - 104	42	25
2-Methylphenol	ND	F2	0.885	0.553	F2	mg/Kg	☼	62	38 - 100	35	20
Methylphenol, 3 & 4	0.012	J F2	0.885	0.585	F2	mg/Kg	☼	65	40 - 100	40	20
Naphthalene	0.015	F2	0.885	0.531	F2	mg/Kg	☼	58	38 - 100	29	20
Pentachlorophenol	ND	F2	1.77	1.16	F2	mg/Kg	☼	66	34 - 102	62	20
Phenanthrene	0.085	F2 F1	0.885	0.634	F2	mg/Kg	☼	62	41 - 100	44	20
Phenol	ND	F2	0.885	0.507	F2	mg/Kg	☼	57	36 - 100	33	20
Pyrene	0.15	F2 F1	0.885	0.672	F2	mg/Kg	☼	59	42 - 100	34	21
Hexachloroethane	ND	F2	885	544	F2	ug/Kg	☼	61	35 - 100	30	20
Nitrobenzene	ND	F2	885	454	F2	ug/Kg	☼	51	34 - 100	32	20
Hexachlorobutadiene	ND	F2	885	609	F2	ug/Kg	☼	69	35 - 100	30	20
2,4,5-Trichlorophenol	ND	F2	885	605	F2	ug/Kg	☼	68	42 - 100	45	22
2,4,6-Trichlorophenol	ND	F2	885	575	F2	ug/Kg	☼	65	41 - 103	41	25
2,4-Dinitrotoluene	ND	F2	885	640	F2	ug/Kg	☼	72	42 - 110	42	21
Pyridine	ND	F2 F1	1770	901	F2	ug/Kg	☼	51	25 - 119	77	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl	*58*		*42 - 100*
2-Fluorophenol (Surr)	*64*		*21 - 107*
Nitrobenzene-d5 (Surr)	*53*		*35 - 109*
Phenol-d5 (Surr)	*60*		*29 - 105*
Terphenyl-d14 (Surr)	*59*		*36 - 113*
2,4,6-Tribromophenol (Surr)	*80*		*20 - 134*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 180-218279/1-A
Matrix: Solid
Analysis Batch: 218352

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 218279

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.017	0.0088	mg/Kg		07/27/17 11:25	07/28/17 07:45	1
PCB-1221	ND		0.017	0.0086	mg/Kg		07/27/17 11:25	07/28/17 07:45	1
PCB-1232	ND		0.017	0.0066	mg/Kg		07/27/17 11:25	07/28/17 07:45	1
PCB-1242	ND		0.017	0.013	mg/Kg		07/27/17 11:25	07/28/17 07:45	1
PCB-1248	ND		0.017	0.0080	mg/Kg		07/27/17 11:25	07/28/17 07:45	1
PCB-1254	ND		0.017	0.0073	mg/Kg		07/27/17 11:25	07/28/17 07:45	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: MB 180-218279/1-A
Matrix: Solid
Analysis Batch: 218352

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 218279

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1260	ND		0.017	0.011	mg/Kg		07/27/17 11:25	07/28/17 07:45	1
PCB-1262	ND		0.017	0.012	mg/Kg		07/27/17 11:25	07/28/17 07:45	1
PCB-1268	ND		0.017	0.0051	mg/Kg		07/27/17 11:25	07/28/17 07:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*87*		*23 - 150*	*07/27/17 11:25*	*07/28/17 07:45*	*1*
DCB Decachlorobiphenyl (Surr)	*95*		*23 - 150*	*07/27/17 11:25*	*07/28/17 07:45*	*1*
Tetrachloro-m-xylene (Surr)	*83*		*27 - 138*	*07/27/17 11:25*	*07/28/17 07:45*	*1*
Tetrachloro-m-xylene (Surr)	*86*		*27 - 138*	*07/27/17 11:25*	*07/28/17 07:45*	*1*

Lab Sample ID: LCS 180-218279/2-A
Matrix: Solid
Analysis Batch: 218352

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 218279

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			1.33	1.06		mg/Kg		79	52 - 126		
PCB-1260			1.33	1.12		mg/Kg		84	50 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*83*		*23 - 150*
DCB Decachlorobiphenyl (Surr)	*89*		*23 - 150*
Tetrachloro-m-xylene (Surr)	*75*		*27 - 138*
Tetrachloro-m-xylene (Surr)	*79*		*27 - 138*

Lab Sample ID: 180-68556-3 MS
Matrix: Solid
Analysis Batch: 218352

Client Sample ID: WB7-8, S5, C 72517
Prep Type: Total/NA
Prep Batch: 218279

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016	ND		1.77	1.50		mg/Kg	☼	84	52 - 126		
PCB-1260	0.038		1.77	1.43		mg/Kg	☼	79	50 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*87*		*23 - 150*
DCB Decachlorobiphenyl (Surr)	*91*		*23 - 150*
Tetrachloro-m-xylene (Surr)	*80*		*27 - 138*
Tetrachloro-m-xylene (Surr)	*84*		*27 - 138*

Lab Sample ID: 180-68556-3 MSD
Matrix: Solid
Analysis Batch: 218352

Client Sample ID: WB7-8, S5, C 72517
Prep Type: Total/NA
Prep Batch: 218279

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	ND		1.77	1.67		mg/Kg	☼	94	52 - 126	11	20
PCB-1260	0.038		1.77	1.48		mg/Kg	☼	82	50 - 130	3	21

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 180-68556-3 MSD
Matrix: Solid
Analysis Batch: 218352

Client Sample ID: WB7-8, S5, C 72517
Prep Type: Total/NA
Prep Batch: 218279

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*84*		*23 - 150*
DCB Decachlorobiphenyl (Surr)	*90*		*23 - 150*
Tetrachloro-m-xylene (Surr)	*79*		*27 - 138*
Tetrachloro-m-xylene (Surr)	*84*		*27 - 138*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 180-218293/1-A
Matrix: Solid
Analysis Batch: 218421

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 218293

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		1.0	0.44	mg/Kg		07/27/17 12:44	07/28/17 08:35	1
Barium	ND		20	5.4	mg/Kg		07/27/17 12:44	07/28/17 08:35	1
Beryllium	ND		0.40	0.10	mg/Kg		07/27/17 12:44	07/28/17 08:35	1
Cadmium	ND		0.50	0.11	mg/Kg		07/27/17 12:44	07/28/17 08:35	1
Chromium	ND		0.50	0.13	mg/Kg		07/27/17 12:44	07/28/17 08:35	1
Copper	ND		2.5	0.77	mg/Kg		07/27/17 12:44	07/28/17 08:35	1
Lead	ND		1.0	0.33	mg/Kg		07/27/17 12:44	07/28/17 08:35	1
Manganese	ND		1.5	0.41	mg/Kg		07/27/17 12:44	07/28/17 08:35	1
Nickel	ND		4.0	0.90	mg/Kg		07/27/17 12:44	07/28/17 08:35	1
Selenium	ND		1.0	0.40	mg/Kg		07/27/17 12:44	07/28/17 08:35	1
Silver	ND		0.50	0.17	mg/Kg		07/27/17 12:44	07/28/17 08:35	1
Zinc	ND		2.0	1.0	mg/Kg		07/27/17 12:44	07/28/17 08:35	1

Lab Sample ID: LCS 180-218293/2-A
Matrix: Solid
Analysis Batch: 218421

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 218293

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	50.0	51.2		mg/Kg		102	80 - 120
Barium	200	202		mg/Kg		101	80 - 120
Beryllium	5.00	5.06		mg/Kg		101	80 - 120
Cadmium	5.00	5.12		mg/Kg		102	80 - 120
Chromium	20.0	19.2		mg/Kg		96	80 - 120
Copper	25.0	24.7		mg/Kg		99	80 - 120
Lead	50.0	48.3		mg/Kg		97	80 - 120
Manganese	50.0	49.9		mg/Kg		100	80 - 120
Nickel	50.0	50.7		mg/Kg		101	80 - 120
Selenium	50.0	49.9		mg/Kg		100	80 - 120
Silver	5.00	4.95		mg/Kg		99	80 - 120
Zinc	50.0	49.5		mg/Kg		99	80 - 120

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 180-68556-3 MS
Matrix: Solid
Analysis Batch: 218421

Client Sample ID: WB7-8, S5, C 72517
Prep Type: Total/NA
Prep Batch: 218293

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	5.6		69.9	65.9		mg/Kg	☼	86	75 - 125
Barium	90		280	346		mg/Kg	☼	92	75 - 125
Beryllium	0.38	J	6.99	6.31		mg/Kg	☼	85	75 - 125
Cadmium	0.26	J	6.99	6.16		mg/Kg	☼	84	75 - 125
Chromium	9.8		28.0	36.1		mg/Kg	☼	94	75 - 125
Copper	21		35.0	48.8		mg/Kg	☼	79	75 - 125
Lead	22		69.9	85.4		mg/Kg	☼	91	75 - 125
Manganese	420		69.9	561	4	mg/Kg	☼	200	75 - 125
Nickel	18		69.9	86.9		mg/Kg	☼	98	75 - 125
Selenium	ND		69.9	57.0		mg/Kg	☼	82	75 - 125
Silver	ND		6.99	5.71		mg/Kg	☼	82	75 - 125
Zinc	59		69.9	122		mg/Kg	☼	89	75 - 125

Lab Sample ID: 180-68556-3 MSD
Matrix: Solid
Analysis Batch: 218421

Client Sample ID: WB7-8, S5, C 72517
Prep Type: Total/NA
Prep Batch: 218293

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	5.6		69.9	67.2		mg/Kg	☼	88	75 - 125	2	20
Barium	90		280	330		mg/Kg	☼	86	75 - 125	5	20
Beryllium	0.38	J	6.99	6.37		mg/Kg	☼	86	75 - 125	1	20
Cadmium	0.26	J	6.99	6.23		mg/Kg	☼	86	75 - 125	1	20
Chromium	9.8		28.0	34.7		mg/Kg	☼	89	75 - 125	4	20
Copper	21		35.0	47.5		mg/Kg	☼	76	75 - 125	3	20
Lead	22		69.9	85.9		mg/Kg	☼	91	75 - 125	1	20
Manganese	420		69.9	469	4	mg/Kg	☼	68	75 - 125	18	20
Nickel	18		69.9	82.1		mg/Kg	☼	92	75 - 125	6	20
Selenium	ND		69.9	57.6		mg/Kg	☼	82	75 - 125	1	20
Silver	ND		6.99	5.89		mg/Kg	☼	84	75 - 125	3	20
Zinc	59		69.9	117		mg/Kg	☼	83	75 - 125	4	20

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 180-218383/1-A
Matrix: Solid
Analysis Batch: 218639

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 218383

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.033	0.0074	mg/Kg		07/31/17 08:10	07/31/17 11:38	1

Lab Sample ID: LCS 180-218383/2-A
Matrix: Solid
Analysis Batch: 218639

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 218383

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.417	0.461		mg/Kg		111	80 - 120

Method: 7471B - Mercury (CVAA) (Continued)

Lab Sample ID: 180-68556-3 MS
Matrix: Solid
Analysis Batch: 218639

Client Sample ID: WB7-8, S5, C 72517
Prep Type: Total/NA
Prep Batch: 218383

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.036	J F1	0.237	0.319		mg/Kg	☼	119	80 - 120

Lab Sample ID: 180-68556-3 MSD
Matrix: Solid
Analysis Batch: 218639

Client Sample ID: WB7-8, S5, C 72517
Prep Type: Total/NA
Prep Batch: 218383

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.036	J F1	0.208	0.288	F1	mg/Kg	☼	122	80 - 120	10	20

Method: 2540G - SM 2540G

Lab Sample ID: 180-68556-3 DU
Matrix: Solid
Analysis Batch: 218185

Client Sample ID: WB7-8, S5, C 72517
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	24.7		21.1		%		16	20
Percent Solids	75.3		78.9		%		5	20

Lab Sample ID: 180-68556-6 DU
Matrix: Solid
Analysis Batch: 218185

Client Sample ID: WB6-7, S1, C 72517
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	22.8		25.2		%		10	20
Percent Solids	77.2		74.8		%		3	20

Method: 9014 - Cyanide

Lab Sample ID: MB 180-218282/4-A
Matrix: Solid
Analysis Batch: 218335

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 218282

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.50	0.15	mg/Kg		07/27/17 11:19	07/27/17 14:28	1

Lab Sample ID: HLCS 180-218282/2-A
Matrix: Solid
Analysis Batch: 218335

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 218282

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.250	0.236		mg/Kg		94	90 - 110

Lab Sample ID: LCS 180-218282/3-A
Matrix: Solid
Analysis Batch: 218335

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 218282

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	163	117		mg/Kg		72	38 - 162

QC Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68556-1

Lab Sample ID: LLCS 180-218282/1-A
Matrix: Solid
Analysis Batch: 218335

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 218282

Analyte			Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cyanide, Total			0.0500	0.0497		mg/Kg		99	90 - 110		

Lab Sample ID: 180-68556-3 MS
Matrix: Solid
Analysis Batch: 218335

Client Sample ID: WB7-8, S5, C 72517
Prep Type: Total/NA
Prep Batch: 218282

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cyanide, Total	0.38	J	6.51	6.58		mg/Kg	☼	95	75 - 125		

Lab Sample ID: 180-68556-3 MSD
Matrix: Solid
Analysis Batch: 218335

Client Sample ID: WB7-8, S5, C 72517
Prep Type: Total/NA
Prep Batch: 218282

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cyanide, Total	0.38	J	6.64	6.82		mg/Kg	☼	97	75 - 125	4	20

GC/MS VOA

Analysis Batch: 218214

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68556-11	TRIP BLANK	Total/NA	Water	8260C	
MB 180-218214/6	Method Blank	Total/NA	Water	8260C	
LCS 180-218214/3	Lab Control Sample	Total/NA	Water	8260C	

Analysis Batch: 218225

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68556-1	WB7-8, S5, A 72517	Total/NA	Solid	8260C	218236
180-68556-2	WB7-8, S5, B 72517	Total/NA	Solid	8260C	218236
180-68556-4	WB6-7, S1, A 72517	Total/NA	Solid	8260C	218236
180-68556-5	WB6-7, S1, B 72517	Total/NA	Solid	8260C	218236
180-68556-7	WB6-7, S2, A 72517	Total/NA	Solid	8260C	218236
180-68556-8	WB6-7, S2, B 72517	Total/NA	Solid	8260C	218236
180-68556-10	DUP 17 72517	Total/NA	Solid	8260C	218236
MB 180-218225/7	Method Blank	Total/NA	Solid	8260C	
LCS 180-218225/3	Lab Control Sample	Total/NA	Solid	8260C	
180-68556-1 MS	WB7-8, S5, A 72517	Total/NA	Solid	8260C	218236
180-68556-1 MSD	WB7-8, S5, A 72517	Total/NA	Solid	8260C	218236

Prep Batch: 218236

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68556-1	WB7-8, S5, A 72517	Total/NA	Solid	5035	
180-68556-2	WB7-8, S5, B 72517	Total/NA	Solid	5035	
180-68556-4	WB6-7, S1, A 72517	Total/NA	Solid	5035	
180-68556-5	WB6-7, S1, B 72517	Total/NA	Solid	5035	
180-68556-7	WB6-7, S2, A 72517	Total/NA	Solid	5035	
180-68556-8	WB6-7, S2, B 72517	Total/NA	Solid	5035	
180-68556-10	DUP 17 72517	Total/NA	Solid	5035	
180-68556-1 MS	WB7-8, S5, A 72517	Total/NA	Solid	5035	
180-68556-1 MSD	WB7-8, S5, A 72517	Total/NA	Solid	5035	

GC/MS Semi VOA

Analysis Batch: 218265

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68556-3	WB7-8, S5, C 72517	Total/NA	Solid	8270D LL	218278
180-68556-6	WB6-7, S1, C 72517	Total/NA	Solid	8270D LL	218278
180-68556-9	WB6-7, S2, C 72517	Total/NA	Solid	8270D LL	218278
MB 180-218278/1-A	Method Blank	Total/NA	Solid	8270D LL	218278
LCS 180-218278/2-A	Lab Control Sample	Total/NA	Solid	8270D LL	218278
180-68556-3 MS	WB7-8, S5, C 72517	Total/NA	Solid	8270D LL	218278
180-68556-3 MSD	WB7-8, S5, C 72517	Total/NA	Solid	8270D LL	218278

Prep Batch: 218278

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68556-3	WB7-8, S5, C 72517	Total/NA	Solid	3541	
180-68556-6	WB6-7, S1, C 72517	Total/NA	Solid	3541	
180-68556-9	WB6-7, S2, C 72517	Total/NA	Solid	3541	
MB 180-218278/1-A	Method Blank	Total/NA	Solid	3541	
LCS 180-218278/2-A	Lab Control Sample	Total/NA	Solid	3541	
180-68556-3 MS	WB7-8, S5, C 72517	Total/NA	Solid	3541	

GC/MS Semi VOA (Continued)

Prep Batch: 218278 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68556-3 MSD	WB7-8, S5, C 72517	Total/NA	Solid	3541	

GC Semi VOA

Prep Batch: 218279

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68556-3	WB7-8, S5, C 72517	Total/NA	Solid	3541	
180-68556-6	WB6-7, S1, C 72517	Total/NA	Solid	3541	
180-68556-9	WB6-7, S2, C 72517	Total/NA	Solid	3541	
MB 180-218279/1-A	Method Blank	Total/NA	Solid	3541	
LCS 180-218279/2-A	Lab Control Sample	Total/NA	Solid	3541	
180-68556-3 MS	WB7-8, S5, C 72517	Total/NA	Solid	3541	
180-68556-3 MSD	WB7-8, S5, C 72517	Total/NA	Solid	3541	

Cleanup Batch: 218348

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68556-3	WB7-8, S5, C 72517	Total/NA	Solid	3665A	218279
180-68556-6	WB6-7, S1, C 72517	Total/NA	Solid	3665A	218279
180-68556-9	WB6-7, S2, C 72517	Total/NA	Solid	3665A	218279
180-68556-3 MS	WB7-8, S5, C 72517	Total/NA	Solid	3665A	218279
180-68556-3 MSD	WB7-8, S5, C 72517	Total/NA	Solid	3665A	218279

Cleanup Batch: 218349

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68556-3	WB7-8, S5, C 72517	Total/NA	Solid	3660B	218348
180-68556-6	WB6-7, S1, C 72517	Total/NA	Solid	3660B	218348
180-68556-9	WB6-7, S2, C 72517	Total/NA	Solid	3660B	218348
180-68556-3 MS	WB7-8, S5, C 72517	Total/NA	Solid	3660B	218348
180-68556-3 MSD	WB7-8, S5, C 72517	Total/NA	Solid	3660B	218348

Analysis Batch: 218352

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68556-3	WB7-8, S5, C 72517	Total/NA	Solid	8082A	218349
180-68556-6	WB6-7, S1, C 72517	Total/NA	Solid	8082A	218349
180-68556-9	WB6-7, S2, C 72517	Total/NA	Solid	8082A	218349
MB 180-218279/1-A	Method Blank	Total/NA	Solid	8082A	218279
LCS 180-218279/2-A	Lab Control Sample	Total/NA	Solid	8082A	218279
180-68556-3 MS	WB7-8, S5, C 72517	Total/NA	Solid	8082A	218349
180-68556-3 MSD	WB7-8, S5, C 72517	Total/NA	Solid	8082A	218349

Metals

Prep Batch: 218293

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68556-3	WB7-8, S5, C 72517	Total/NA	Solid	3050B	
180-68556-6	WB6-7, S1, C 72517	Total/NA	Solid	3050B	
180-68556-9	WB6-7, S2, C 72517	Total/NA	Solid	3050B	
MB 180-218293/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 180-218293/2-A	Lab Control Sample	Total/NA	Solid	3050B	
180-68556-3 MS	WB7-8, S5, C 72517	Total/NA	Solid	3050B	

Metals (Continued)

Prep Batch: 218293 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68556-3 MSD	WB7-8, S5, C 72517	Total/NA	Solid	3050B	

Prep Batch: 218383

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68556-3	WB7-8, S5, C 72517	Total/NA	Solid	7471B	
180-68556-6	WB6-7, S1, C 72517	Total/NA	Solid	7471B	
180-68556-9	WB6-7, S2, C 72517	Total/NA	Solid	7471B	
MB 180-218383/1-A	Method Blank	Total/NA	Solid	7471B	
LCS 180-218383/2-A	Lab Control Sample	Total/NA	Solid	7471B	
180-68556-3 MS	WB7-8, S5, C 72517	Total/NA	Solid	7471B	
180-68556-3 MSD	WB7-8, S5, C 72517	Total/NA	Solid	7471B	

Analysis Batch: 218421

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68556-3	WB7-8, S5, C 72517	Total/NA	Solid	6010C	218293
180-68556-6	WB6-7, S1, C 72517	Total/NA	Solid	6010C	218293
180-68556-9	WB6-7, S2, C 72517	Total/NA	Solid	6010C	218293
MB 180-218293/1-A	Method Blank	Total/NA	Solid	6010C	218293
LCS 180-218293/2-A	Lab Control Sample	Total/NA	Solid	6010C	218293
180-68556-3 MS	WB7-8, S5, C 72517	Total/NA	Solid	6010C	218293
180-68556-3 MSD	WB7-8, S5, C 72517	Total/NA	Solid	6010C	218293

Analysis Batch: 218639

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68556-3	WB7-8, S5, C 72517	Total/NA	Solid	7471B	218383
180-68556-6	WB6-7, S1, C 72517	Total/NA	Solid	7471B	218383
180-68556-9	WB6-7, S2, C 72517	Total/NA	Solid	7471B	218383
MB 180-218383/1-A	Method Blank	Total/NA	Solid	7471B	218383
LCS 180-218383/2-A	Lab Control Sample	Total/NA	Solid	7471B	218383
180-68556-3 MS	WB7-8, S5, C 72517	Total/NA	Solid	7471B	218383
180-68556-3 MSD	WB7-8, S5, C 72517	Total/NA	Solid	7471B	218383

General Chemistry

Analysis Batch: 218185

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68556-1	WB7-8, S5, A 72517	Total/NA	Solid	2540G	
180-68556-2	WB7-8, S5, B 72517	Total/NA	Solid	2540G	
180-68556-3	WB7-8, S5, C 72517	Total/NA	Solid	2540G	
180-68556-4	WB6-7, S1, A 72517	Total/NA	Solid	2540G	
180-68556-5	WB6-7, S1, B 72517	Total/NA	Solid	2540G	
180-68556-6	WB6-7, S1, C 72517	Total/NA	Solid	2540G	
180-68556-7	WB6-7, S2, A 72517	Total/NA	Solid	2540G	
180-68556-8	WB6-7, S2, B 72517	Total/NA	Solid	2540G	
180-68556-9	WB6-7, S2, C 72517	Total/NA	Solid	2540G	
180-68556-10	DUP 17 72517	Total/NA	Solid	2540G	
180-68556-3 DU	WB7-8, S5, C 72517	Total/NA	Solid	2540G	
180-68556-6 DU	WB6-7, S1, C 72517	Total/NA	Solid	2540G	

General Chemistry (Continued)

Prep Batch: 218282

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68556-3	WB7-8, S5, C 72517	Total/NA	Solid	9010C	
180-68556-6	WB6-7, S1, C 72517	Total/NA	Solid	9010C	
180-68556-9	WB6-7, S2, C 72517	Total/NA	Solid	9010C	
MB 180-218282/4-A	Method Blank	Total/NA	Solid	9010C	
HLCS 180-218282/2-A	Lab Control Sample	Total/NA	Solid	9010C	
LCS 180-218282/3-A	Lab Control Sample	Total/NA	Solid	9010C	
LLCS 180-218282/1-A	Lab Control Sample	Total/NA	Solid	9010C	
180-68556-3 MS	WB7-8, S5, C 72517	Total/NA	Solid	9010C	
180-68556-3 MSD	WB7-8, S5, C 72517	Total/NA	Solid	9010C	

Analysis Batch: 218335

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68556-3	WB7-8, S5, C 72517	Total/NA	Solid	9014	218282
180-68556-6	WB6-7, S1, C 72517	Total/NA	Solid	9014	218282
180-68556-9	WB6-7, S2, C 72517	Total/NA	Solid	9014	218282
MB 180-218282/4-A	Method Blank	Total/NA	Solid	9014	218282
HLCS 180-218282/2-A	Lab Control Sample	Total/NA	Solid	9014	218282
LCS 180-218282/3-A	Lab Control Sample	Total/NA	Solid	9014	218282
LLCS 180-218282/1-A	Lab Control Sample	Total/NA	Solid	9014	218282
180-68556-3 MS	WB7-8, S5, C 72517	Total/NA	Solid	9014	218282
180-68556-3 MSD	WB7-8, S5, C 72517	Total/NA	Solid	9014	218282

TestAmerica Pittsburgh
301 Alpha Drive RIDC Park
Pittsburgh, PA 15238
Phone (412) 963-7058 Fax (412) 963-2468

Chain of Custody Record

180-68556 Chain of Custody

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Ellen Buelow	Lab PM: Dunlap, David A	COC No: 180-38494-8381.1
Client Contact: Ashwin Ranna; Aron Krasnopoler	Phone: 412-552-4758	E-Mail: david.dunlap@test.	Page: Page 1 of 1
Company: Geosyntec Consultants, Inc.			Job #:
Address: Penn Center West One, Suite 402 1 Penn Center West Drive	Due Date Requested:		
City: Pittsburgh	TAT Requested (days): 1 Day		
State, Zip: PA, 15276			
Phone:	PO #: MN0832B		
Email: aranna@geosyntec.com; Akrasnopoler@geosyntec.com	WO #:		
Project Name: Former Sperry Remington Site - North IRM	Project #: 18013464		
Site:	SSOW#:		

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - VOA-Select List	6010C, 7471B, 9014 - Select ICP Metals, Mercury, Cyanide	8082A, 8270D, PCBs, Select BNA	8260C - VOA-Select List (Trip Blanks only)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	A		
WB7-8,SS,A 72517	72517	11:35	G	Solid	N	Y	X				12	Perform MS,MSD 10
WB7-8,SS,B 72517	72517	11:50	G	Solid	N	N	X				4	
WB7-8,SS,C 72517	72517	11:55	C	Solid	N	Y		X	X		6	Perform MS/MSD 11
WB6-7,S1,A 72517	72517	15:10	G	Solid	N	N	X				4	
WB6-7,S1,B 72517	72517	15:20	G	Solid	N	N	X				4	
WB6-7,S1,C 72517	72517	15:25	C	Solid	N	N		X	X		2	
WB6-7,S2,A 72517	72517	16:35	G	Solid	N	N	X				4	The times are correct
WB6-7,S2,B 72517	72517	16:25	G	Solid	N	N	X				4	for WB67,S2 A & B
WB6-7,S2,C 72517	72517	16:40	C	Solid	N	N		X	X		2	
				Solid								
DUP# ECB 17 72517	72517	—	G	Solid	N	N	X				4	

TRIP BLANK 1

RUSH

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Ellen Buelow	18:30 ECB 07/25/17	Geosyntec		7/26/17 0730	TA Pgh
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

7/31/2017

TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
phone 412.963.7058 fax 412.963.2468

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☑ Other:

Client Contact	**Project Manager:** Aron Krasnopoler	**Site Contact:** Ashwin Ranna/Ellen Buelow	**Date:** 072517	COC No:
Geosyntec Consultants	**Tel/Fax:** 401-381-4333	**Lab Contact:** Dave Dunlap	**Carrier:** FedEx	2 of 2 COCs
10211 Wincopin Circle, 4th Floor	**Analysis Turnaround Time**			Sampler:
Columbia, MD 21044	☐ CALENDAR DAYS ☑ WORKING DAYS			**For Lab Use Only:**
410-381-4333 Phone	TAT if different from Below _____			Walk-in Client:
410-381-4499 FAX	☐ 2 weeks			Lab Sampling:
Project Name: Former Sperry Remington Site - North	☐ 1 week			
Site: Elmira	☐ 2 days			Job / SDG No.:
P O # MN0832B	☑ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	PCBs - 8082A	VOCs - 8260C	TCLP Lead	8260C - VOA - TRIP BLANK	Sample Specific Notes:
TRIP BLANK #1	—	—	—	W	2						X	

Preservation Used: 1= Ice, 2= HCl; 3= H_2SO_4; 4=HNO_3; 5=NaOH; 6= Other _____ 1

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd: _____ Corr'd: _____ Therm ID No.: _____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Ellen Buelow	Geosyntec	18:30 072517			7/26/17 0730
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Form No. CA-C-WI-002, Rev. 4.3, dated 12/05/2013

7/31/2017

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 180-68556-1

Login Number: 68556
List Number: 1
Creator: Kovitch, Christina M

List Source: TestAmerica Pittsburgh

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Geosyntec consultants

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Memorandum

Date:	14 August 2017
To:	Aron Krasnopoler
From:	Chris Pracheil
CC:	J. Caprio
Subject:	**Stage 2A Data Validation - Level II Data Deliverable, TestAmerica Job ID # 180-68509-1**

SITE: Former Sperry Remington Site-North IRM

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of fifteen solid samples, two field duplicate samples, and one trip blank, collected July 24, 2017, as part of the Former Sperry Remington Site-North IRM project. The analyses were performed at TestAmerica Laboratories, Inc., Pittsburgh, Pennsylvania. The samples were analyzed for the following tests:

- Volatile Organic Compounds (VOCs) by EPA Methods 8260C and 5035/8260C
- Semivolatile Organic Compounds (SVOCs) by EPA Methods 3541/8270D
- Polychlorinated Biphenyls (PCBs) by EPA Methods 3541/8082A
- Metals by EPA Methods 3050B/6010C
- Mercury by EPA Method 7471B
- Total Cyanide by EPA Methods 9010C/9014
- Total Solids by Standard Method 2540G

EXECUTIVE SUMMARY

The samples were handled, prepared, and measured in the same manner under similar prescribed conditions.

Overall, based on this Stage 2A data validation covering the quality control (QC) parameters listed below, the data are usable for meeting project objectives. Qualified data should be used within the limitations of the qualification.

The data were validated the Quality Assurance Project Plan (QAPP) for Former Sperry Remington Facility Industrial Outfall Site, Elmira, New York, NYSDEC Site I.D. # 808043, NY09-2480-04,

July 7, 2010, Revised November 11, 2010, USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review, January 2017 (EPA 540-R-2017-002), USEPA Contract Laboratory Program National Functional Guidelines for Superfund Inorganic Methods Data Review, January 2017 (EPA 540-R-2017-001), the pertinent methods referenced by the laboratory report and professional and technical judgment.

The following samples were analyzed and validated at Stage 2A level in the data set:

Laboratory ID	Client ID
180-68509-1	WB 7-8, S1, A 072417
180-68509-2	WB 7-8, S1, B 072417
180-68509-3	WB 7-8, S1, C 072417
180-68509-4	WB 7-8, S2, A 072417
180-68509-5	WB 7-8, S2, B 072417
180-68509-6	WB 7-8, S2, C 072417
180-68509-7	WB 7-8, S3, A 072417
180-68509-8	WB 7-8, S3, B 072417
180-68509-9	WB 7-8, S3, C 072417

Laboratory ID	Client ID
180-68509-10	WB 7-8, S4, A 072417
180-68509-11	WB 7-8, S4, B 072417
180-68509-12	WB 7-8, S4, C 072417
180-68509-13	W9, S1, A 072417
180-68509-14	W9, S1, B 072417
180-68509-15	W9, S1, C 072417
180-68509-22	TRIP BLANK
180-68509-23	DUP 15
180-68509-24	DUP 14

The samples were received at the laboratory at 2.6ºC, 4.1ºC and 4.4ºC within the criteria of 0-6ºC. No sample preservation issues were noted by the laboratory.

The following sample receiving issues were noted:

- Incorrect error corrections were observed on the chain of custody (COC), instead of the proper procedure of a single strike through, correction, and initials and date of person making the corrections.

- Sample collection times were not documented on the COC for field duplicate samples DUP 15 and DUP 14. The laboratory assigned collection times of 00:00. In addition, no sample collection dates or times were documented on the COC for the trip blank. The laboratory assigned collection date and time of 7/24/17, 00:00.

- Samples W9, S2, C 072417; W9, S3, C 072417; W9, S4, C 072417; W9, S2, A 072417; W9, S3, A 072417; W9, S4, A 072417 and DUP 16 were listed on the COC and reported in laboratory report 180-68509-2.

The solids data, used to report the samples on a dry weight basis, were not validated.

1.0 VOLATILE ORGANIC COMPOUNDS

The samples were analyzed for VOCs by EPA methods 8260C and 5035/8260B.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Surrogates
- ✓ Trip Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

1.1 Overall Assessment

The VOC data reported in this package are considered usable for meeting project objectives. The analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this package is 100%.

1.2 Holding Times

The holding times for the VOC analysis of a solid sample collected using a Terracore are 48 hours from collection to laboratory receipt and 14 days from sample collection to analysis. The holding times were met for the sample analyses.

1.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Three method blanks were reported (batches 218093, 218110 and 218236). VOCs were not detected in the method blank above the method detection limits (MDLs).

1.4 Matrix Spike/Matrix Spike Duplicate (MS/MSD)

MS/MSD pairs were not reported with the sample set.

1.5 Laboratory Control Sample (LCS)

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Three LCSs were reported. The recovery results were within the laboratory specified acceptance criteria.

1.6 Surrogates

Acceptable surrogate recoveries were reported.

1.7 Trip Blank

One trip blank, TRIP BLANK, accompanied the samples. VOCs were not detected in the trip blank above the MDLs.

1.8 Field Duplicate

Two field duplicates were collected with the sample set. One field duplicate was analyzed for VOCs, DUP 15. Acceptable precision [relative percent difference (RPD) <40% for results greater than five times the reporting limit (RL) and ±2 times the RL for results less than five times the RL] was demonstrated between the field duplicate and the original sample, W9, S1, A 072417.

1.9 Sensitivity

The samples were reported to the MDLs. No elevated non-detect results were reported.

The MDLs were at or below the NYSDEC DER10 App 5 Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010.

1.10 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The sample date and time was added to the sample IDs in the EDD and was not add to the sample IDs in the laboratory report. No other discrepancies were identified between the level II report and the EDD.

2.0 SEMIVOLATILE ORGANIC COMPOUNDS

The samples were analyzed for SVOCs by EPA methods 3541/8270D.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Surrogates
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

2.1 Overall Assessment

The SVOC data reported in this package are considered usable for meeting project objectives. The analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this package is 100%.

2.2 Holding Times

The holding times for SVOC analysis of solid samples are 14 days from sample collection to extraction and 40 days from extraction to analysis. The holding times were met for the sample analyses.

2.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 218278). SVOCs were not detected in the method blank above the MDLs.

2.4 Matrix Spike/Matrix Spike Duplicate

MS/MSD pairs were not reported with the sample set.

2.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery results were within the laboratory specified acceptance criteria.

2.6 Surrogates

Acceptable surrogate recoveries were reported.

2.7 Field Duplicate

Two field duplicates were collected with the sample set. One field duplicate was analyzed for SVOCs, DUP 14. Acceptable precision (RPD <40% for results greater than five times the RL and ±2 times the RL for results less than five times the RL) was demonstrated between the field duplicate and the original sample, WB 7-8, S4, C 072417.

2.8 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were reported for samples W9, S1, C 072417, WB 7-8, S2, C 072417 and DUP 14 due to the dilutions analyzed.

The MDLs were at or below the NYSDEC DER10 App 5 Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010 listed in the EDD. It was noted that no NYSDEC DER10 App 5 Constituent Levels for Imported Fill were listed for the following compounds:

2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dinitrotoluene
2-Methylphenol
Dibenzofuran
Hexachlorobenzene

Hexachlorobutadiene
Hexachloroethane
Methylphenol, 3 & 4
Nitrobenzene
Pyridine

2.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The sample date and time was added to the sample IDs in the EDD and was not add to the sample IDs in the laboratory report. No other discrepancies were identified between the level II report and the EDD.

3.0 POLYCHLORINATED BIPHENYLS

The samples were analyzed for PCBs by EPA Methods 3541/8082A.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

⊗ Overall Assessment
✓ Holding Times
✓ Method Blank
✓ Matrix Spike/Matrix Spike Duplicate
✓ Laboratory Control Sample
✓ Surrogates
✓ Field Duplicate
✓ Sensitivity
✓ Electronic Data Deliverable Review

3.1 Overall Assessment

The PCB data reported in this data set are considered usable for meeting project objectives. The analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this data set is 100%.

The samples contain mixtures of PCBs 1248, 1254 and 1260 and PCBs 1248 and 1254. There are peaks in 1248 and 1254 that are in both of these PCBs and peaks in 1254 and 1260 that are in both of these PCBs; therefore, there is contribution between PCBs when more than one PCB is detected in a sample. Therefore, based on professional and technical judgment, the concentrations of PCBs 1248, 1254 and 1260 in these samples were J qualified as estimated.

Sample ID	Compound	Laboratory Concentration (mg/kg)	Laboratory Flag	Validation Concentration (mg/kg)	Validation Qualifier*	Reason Code**
DUP 14	PCB-1248	1.5	NA	1.5	J	13
DUP 14	PCB-1254	0.48	NA	0.48	J	13
DUP 14	PCB-1260	0.043	NA	0.043	J	13
W9, S1, C 072417	PCB-1248	0.15	NA	0.15	J	13
W9, S1, C 072417	PCB-1254	0.053	NA	0.053	J	13

Sample ID	Compound	Laboratory Concentration (mg/kg)	Laboratory Flag	Validation Concentration (mg/kg)	Validation Qualifier*	Reason Code**
WB 7-8, S1, C 072417	PCB-1248	1.3	NA	1.3	J	13
WB 7-8, S1, C 072417	PCB-1254	0.50	NA	0.50	J	13
WB 7-8, S1, C 072417	PCB-1260	0.054	NA	0.054	J	13
WB 7-8, S2, C 072417	PCB-1248	0.79	NA	0.79	J	13
WB 7-8, S2, C 072417	PCB-1254	0.30	NA	0.30	J	13
WB 7-8, S2, C 072417	PCB-1260	0.043	NA	0.043	J	13
WB 7-8, S3, C 072417	PCB-1248	1.3	NA	1.3	J	13
WB 7-8, S3, C 072417	PCB-1254	0.46	NA	0.46	J	13
WB 7-8, S3, C 072417	PCB-1260	0.050	NA	0.050	J	13
WB 7-8, S4, C 072417	PCB-1248	1.0	NA	1.0	J	13
WB 7-8, S4, C 072417	PCB-1254	0.42	NA	0.42	J	13
WB 7-8, S4, C 072417	PCB-1260	0.040	NA	0.040	J	13

mg/kg-milligrams per kilogram
NA-not applicable
* Validation qualifiers are defined in Attachment 1 at the end of this report
**Reason codes are defined in Attachment 2 at the end of this report

3.2 Holding Times

No holding times are listed in the referenced method for PCB analyses. The samples were extracted and analyzed within 3 days of collection. Therefore, no qualifications were applied to the data, based on professional and technical judgment.

3.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 218112). PCBs were not detected in the method blank above the MDLs.

3.4 Matrix Spike/Matrix Spike Duplicate

MS/MSD pairs were not reported with the sample set.

3.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery results were within the laboratory specified acceptance criteria.

3.6 Surrogates

Acceptable surrogate recoveries were reported for the sample analyses.

3.7 Field Duplicate

Two field duplicates were collected with the sample set. One field duplicate was analyzed for PCBs, DUP 14. Acceptable precision (RPD <40% for results greater than five times the RL and ±2 times the RL for results less than five times the RL) was demonstrated between the field duplicate and the original sample, WB 7-8, S4, C 072417.

3.8 Sensitivity

The samples were reported to the MDLs. No elevated non-detect results were reported.

It was noted that no NYSDEC constituent levels were listed for PCBs.

3.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The sample date and time was added to the sample IDs in the EDD and was not add to the sample IDs in the laboratory report. No other discrepancies were identified between the level II report and the EDD.

4.0 METALS

The samples were analyzed for metals by EPA methods 3050B/6010C (Mercury evaluated separately in Section 5.0, below).

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

✓ Overall Assessment

- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

4.1 Overall Assessment

The metals data reported in this data set are considered usable for meeting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this data set is 100%.

4.2 Holding Times

The holding time for the metals analysis of solid samples is 180 days from sample collection to analysis. The holding times were met for the sample analyses.

4.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 218293). The metals were not detected in the method blank above the MDLs.

4.4 Matrix Spike/Matrix Spike Duplicate

MS/MSD pairs were not reported with the sample set.

4.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery results were within the laboratory specified acceptance criteria.

4.6 Laboratory Duplicate

A laboratory duplicate was not reported.

4.7 Field Duplicate

Two field duplicates were collected with the sample set. One field duplicate was analyzed for metals, DUP 14. Acceptable precision (RPD <40% for results greater than five times the RL and ±2 times the RL for results less than five times the RL) was demonstrated between the field duplicate and the original sample, WB 7-8, S4, C 072417.

4.8 Sensitivity

The samples were reported to the MDLs. No elevated non-detect results were reported.

The MDLs were at or below the NYSDEC DER10 App 5 Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010. It was noted that no NYSDEC constituent level was listed in the EDD for chromium.

4.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The sample date and time was added to the sample IDs in the EDD and was not add to the sample IDs in the laboratory report. No other discrepancies were identified between the level II report and the EDD.

5.0 MERCURY

The samples were analyzed for mercury by EPA method 7471B.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

5.1 Overall Assessment

The mercury data reported in this data set are considered usable for meeting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this data set is 100%.

5.2 Holding Times

The holding time for the mercury analysis of solid samples is 28 days from sample collection to analysis. The holding times were met for the sample analyses.

5.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 218097). Mercury was not detected in the method blank above the MDL.

5.4 Matrix Spike/Matrix Spike Duplicate

MS/MSD pairs were not reported with the sample set.

5.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS/Laboratory control sample duplicate (LCSD) pair was reported. The recovery and RPD results were within the laboratory specified acceptance criteria.

5.6 Laboratory Duplicate

A laboratory duplicate was not reported.

5.7 Field Duplicate

Two field duplicates were collected with the sample set. One field duplicate was analyzed for mercury, DUP 14. Acceptable precision (RPD <40% for results greater than five times the RL and ±2 times the RL for results less than five times the RL) was demonstrated between the field duplicate and the original sample, WB 7-8, S4, C 072417.

5.8 Sensitivity

The samples were reported to the MDL. No elevated non-detect results were reported.

The MDL was at or below the NYSDEC DER10 App 5 Constituent Level for Imported Fill or Soil Restricted Residential Use May 2010.

5.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The sample date and time was added to the sample IDs in the EDD and was not add to the sample IDs in the laboratory report. No other discrepancies were identified between the level II report and the EDD.

6.0 TOTAL CYANIDE

The samples were analyzed for total cyanide by EPA Methods 9010C/ 9014.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

6.1 Overall Assessment

The total cyanide data reported in this data set are considered usable for meeting project objectives. The analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this data set is 100%.

6.2 Holding Times

The holding time for the total cyanide analysis of solid samples is 14 days from sample collection to analysis. The holding times were met for the sample analyses.

6.3 Method Blanks

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 218282). Cyanide was not detected in the method blank above the MDL.

6.4 Matrix Spike

MS/MSD pairs were not reported with the sample set.

6.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Three LCSs were reported. The recovery results were within the laboratory specified acceptance criteria.

6.6 Laboratory Duplicate

Laboratory duplicates were not reported.

6.7 Field Duplicate

Two field duplicates were collected with the sample set. One field duplicate was analyzed for cyanide, DUP 14. Acceptable precision (RPD <40% for results greater than five times the RL and ±2 times the RL for results less than five times the RL) was demonstrated between the field duplicate and the original sample, WB 7-8, S4, C 072417.

6.8 Sensitivity

The samples were reported to the MDL. No elevated non-detect results were reported.

The MDL was at or below the NYSDEC DER10 App 5 Constituent Level for Imported Fill or Soil Restricted Residential Use May 2010.

6.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The sample date and time was added to the sample IDs in the EDD and was not add to the sample IDs in the laboratory report. No other discrepancies were identified between the level II report and the EDD.

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ATTACHMENT 1
DATA VALIDATION QUALIFIER DEFINITIONS AND INTERPRETATION KEY
Assigned by Geosyntec's Data Validation Team

DATA QUALIFIER DEFINITIONS

U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

J+ The analyte was positively identified; however, the associated numerical value is likely to be higher that the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.

J- The analyte was positively identified; however, the associated numerical value is likely to be lower that the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ATTACHMENT 2
DATA VALIDATION REASON CODES
Assigned by Geosyntec's Data Validation Team

Valid Value	Description
1	Preservation requirement not met
2	Analysis holding time exceeded
3	Blank contamination (i.e., method, trip, equipment, etc.)
4	Matrix spike/matrix spike duplicate recovery or RPD outside limits
5	LCS recovery outside limits
6	Surrogate recovery outside limits
7	Field Duplicate RPD exceeded
8	Serial dilution percent difference exceeded
9	Calibration criteria not met
10	Linear range exceeded
11	Internal standard criteria not met
12	Lab duplicates RPD exceeded
13	Other

RPD-relative percent difference

Geosyntec consultants

180A Market Place Blvd.
Knoxville, TN 37922
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www.geosyntec.com

Memorandum

Date:	14 August 2017
To:	Aron Krasnopoler
From:	Chris Pracheil
CC:	J. Caprio
Subject:	**Stage 2A Data Validation - Level II Data Deliverable, TestAmerica Job ID # 180-68556-1**

SITE: Former Sperry Remington Site-North IRM

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of nine solid samples, including two samples for matrix spike/matrix spike duplicate (MS/MSD) analyses, one field duplicate sample, and one trip blank, collected July 25, 2017, as part of the Former Sperry Remington Site-North IRM project. The analyses were performed at TestAmerica Laboratories, Inc., Pittsburgh, Pennsylvania. The samples were analyzed for the following tests:

- Volatile Organic Compounds (VOCs) by EPA Methods 5035/8260C
- Semivolatile Organic Compounds (SVOCs) by EPA Methods 3541/8270D
- Polychlorinated Biphenyls (PCBs) by EPA Methods 3541/8082A
- Metals by EPA Methods 3050B/6010C
- Mercury by EPA Method 7471B
- Total Cyanide by EPA Method 9014
- Total Solids by Standard Method 2540G

EXECUTIVE SUMMARY

The samples were handled, prepared, and measured in the same manner under similar prescribed conditions.

Overall, based on this Stage 2A data validation covering the quality control (QC) parameters listed below, the data as qualified are usable for meeting project objectives. Qualified data should be used within the limitations of the qualification.

The data were validated the Quality Assurance Project Plan (QAPP) for Former Sperry Remington Facility Industrial Outfall Site, Elmira, New York, NYSDEC Site I.D. # 808043, NY09-2480-04, July 7, 2010, Revised November 11, 2010, USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review, January 2017 (EPA 540-R-2017-002), USEPA Contract Laboratory Program National Functional Guidelines for Superfund Inorganic Methods Data Review, January 2017 (EPA 540-R-2017-001), the pertinent methods referenced by the laboratory report and professional and technical judgment.

The following samples were analyzed and validated at Stage 2A level in the data set:

Laboratory ID	Client ID
180-68556-1	WB7-8, S5, A 72517
180-68556-2	WB7-8, S5, B 72517
180-68556-3	WB7-8, S5, C 72517
180-68556-4	WB6-7, S1, A 72517
180-68556-5	WB6-7, S1, B 72517
180-68556-6	WB6-7, S1, C 72517

Laboratory ID	Client ID
180-68556-7	WB6-7, S2, A 72517
180-68556-8	WB6-7, S2, B 72517
180-68556-9	WB6-7, S2, C 72517
180-68556-10	DUP 17 72517
180-68556-11	TRIP BLANK

The samples were received at the laboratory at 2.7°C, within the criteria of 0-6°C. No sample preservation issues were noted by the laboratory.

The following sample receiving issues were noted:

- Incorrect error corrections were observed on the chain of custody (COC), instead of the proper procedure of a single strike through, correction, and initials and date of person making the corrections.
- Sample collection times were not documented on the COC for field duplicate samples DUP 17, 72517. The laboratory assigned collection times of 00:00.
- The sample ID listed on the COC for the trip blank was TRIP BLANK #1. The laboratory logged the sample in with the ID TRIP BLANK. In addition, no collection date or time were documented on the COC for the trip blank. The laboratory assigned collection date and time of 7/25/17, 00:00.
- There was rush sticker on the COC, obliterating part of the analysis request section of the COC.

The solids data, used to report the samples on a dry weight basis, were not validated.

1.0 VOLATILE ORGANIC COMPOUNDS

The samples were analyzed for VOCs by EPA methods 8260C and 5035/8260B.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Surrogates
- ✓ Trip Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

1.1 Overall Assessment

The VOC data reported in this package are considered usable for meeting project objectives. The analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this package is 100%.

1.2 Holding Times

The holding times for the VOC analysis of a solid sample collected using a Terracore are 48 hours from collection to laboratory receipt and 14 days from sample collection to analysis. The holding times were met for the sample analyses.

1.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two method blanks were reported (batches 218214 and 218236). VOCs were not detected in the method blanks above the method detection limits (MDLs).

1.4 Matrix Spike/Matrix Spike Duplicate

MS/MSD pairs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). A sample set specific MS/MSD pair was reported, using sample WB7-8, S5, A 72517. The recovery and relative percent difference (RPD) results were within the laboratory specified acceptance criteria, with the following exceptions.

One or both recoveries of carbon tetrachloride, n-propylbenzene, 1,1,1-trichloroethane and 1,2,4-trimethylbenzene were high, outside laboratory specified acceptance criteria. Since these compounds were not detected in sample WB7-8, S5, A 72517, no qualifications were applied to the data.

1.5 Laboratory Control Sample (LCS)

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two LCSs were reported. The recovery results were within the laboratory specified acceptance criteria.

1.6 Surrogates

Acceptable surrogate recoveries were reported.

1.7 Trip Blank

One trip blank, TRIP BLANK, accompanied the samples. VOCs were not detected in the trip blank above the MDLs, with the following exception.

Acetone was detected in the trip blank at a concentration greater than the RL. Since acetone was not detected in the associated samples, no qualifications were applied to the data.

1.8 Field Duplicate

One field duplicate, DUP 17 72517 was collected with the sample set. Acceptable precision [RPD <40% for results greater than five times the reporting limit (RL) and ±2 times the RL for results less than five times the RL] was demonstrated between the field duplicate and the original sample, WB6-7, S1, B 72517.

1.9 Sensitivity

The samples were reported to the MDLs. No elevated non-detect results were reported.

The MDLs were at or below the NYSDEC DER10 App 5 Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010.

1.10 Electronic Data Deliverable (EDD) Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The sample date and time was added to the sample IDs in the EDD and was not added to the sample IDs in the laboratory report. No other discrepancies were identified between the level II report and the EDD.

2.0 SEMIVOLATILE ORGANIC COMPOUNDS

The samples were analyzed for SVOCs by EPA methods 3541/8270D.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

✓ Overall Assessment
✓ Holding Times
✓ Method Blank
⊗ Matrix Spike/Matrix Spike Duplicate
✓ Laboratory Control Sample
✓ Surrogates
✓ Field Duplicate
✓ Sensitivity
✓ Electronic Data Deliverable Review

2.1 Overall Assessment

The SVOC data reported in this package are considered usable for meeting project objectives. The analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this package is 100%.

2.2 Holding Times

The holding times for SVOC analysis of solid samples are 14 days from sample collection to extraction and 40 days from extraction to analysis. The holding times were met for the sample analyses.

2.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 218278). SVOCs were not detected in the method blank above the MDLs.

2.4 Matrix Spike/Matrix Spike Duplicate

MS/MSD pairs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). A sample set specific MS/MSD pair was reported, using sample WB7-8, S5, C 72517. The recovery and RPD results were within the laboratory specified acceptance criteria, with the following exceptions.

The MS recoveries of acenaphthylene, anthracene, benzo[a]anthracene, benzo[b]fluoranthene, benzo[k]fluoranthene, phenanthrene, pyrene and pyridine were low, outside the laboratory specified acceptance criteria and the RPDs for these compounds were high outside the laboratory specified acceptance criteria. Therefore, based on the low recoveries, the non-detect result of pyridine in sample WB7-8, S5, C 72517 was UJ qualified as estimated less than the MDL and based on the low recoveries and high RPDs, the concentrations of acenaphthylene, anthracene, benzo[a]anthracene, benzo[b]fluoranthene, benzo[k]fluoranthene, phenanthrene and pyrene in sample WB7-8, S5, C 72517 were J qualified as estimated.

In addition, the RPDs of the following compounds were high and outside laboratory specified acceptance criteria. Therefore, the concentrations of these compounds in sample WB7-8, S5, C 72517 were J qualified as estimated.

Acenaphthene
Benzo[a]pyrene
Benzo[g,h,i]perylene
Chrysene
Dibenz(a,h)anthracene
Dibenzofuran
1,4-Dioxane
Fluoranthene

Fluorene
Hexachlorobenzene
Indeno[1,2,3-cd]pyrene
Methylphenol, 2-
Pentachlorophenol
Methylphenol, 3 & 4
Naphthalene
Phenol

Hexachloroethane
Nitrobenzene
Hexachlorobutadiene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dinitrotoluene

Sample	Compound	Laboratory Result (mg/kg)	Laboratory Flag	Validation Result (mg/kg)	Validation Qualifier*	Reason Code**
WB7-8, S5, C 72517	Acenaphthene	0.0091	F2	0.0091	J	4
WB7-8, S5, C 72517	Acenaphthylene	0.038	F2,F1	0.038	J	4
WB7-8, S5, C 72517	Anthracene	0.036	F2,F1	0.036	J	4
WB7-8, S5, C 72517	Benzo[a]anthracene	0.097	F2,F1	0.097	J	4
WB7-8, S5, C 72517	Benzo[a]pyrene	0.10	F2	0.10	J	4
WB7-8, S5, C 72517	Benzo[b]fluoranthene	0.14	F2,F1	0.14	J	4
WB7-8, S5, C 72517	Benzo[g,h,i]perylene	0.096	F2	0.096	J	4
WB7-8, S5, C 72517	Benzo[k]fluoranthene	0.051	F2,F1	0.051	J	4
WB7-8, S5, C 72517	Chrysene	0.11	F2	0.11	J	4
WB7-8, S5, C 72517	Dibenz(a,h)-anthracene	0.024	F2	0.024	J	4
WB7-8, S5, C 72517	Dibenzofuran	0.0075	J,F2	0.0075	J	4
WB7-8, S5, C 72517	Fluoranthene	0.18	F2	0.18	J	4
WB7-8, S5, C 72517	Fluorene	0.011	F2	0.011	J	4
WB7-8, S5, C 72517	Indeno[1,2,3-cd]pyrene	0.082	F2	0.082	J	4
WB7-8, S5, C 72517	Methylphenol, 3 & 4	0.012	J,F2	0.012	J	4
WB7-8, S5, C 72517	Naphthalene	0.015	F2	0.015	J	4
WB7-8, S5, C 72517	Phenanthrene	0.085	F2,F1	0.085	J	4
WB7-8, S5, C 72517	Pyrene	0.15	F2,F1	0.15	J	4
WB7-8, S5, C 72517	Pyridine	4.2	U, F1	4.2	UJ	4

mg/kg-milligrams per kilogram
J- Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1-laboratory flag indicating the MS and/or MSD recovery is outside acceptance limits.
F2- laboratory flag indicating the MS/MSD RPD exceeds control limits.
* Validation qualifiers are defined in Attachment 1 at the end of this report
**Reason codes are defined in Attachment 2 at the end of this report

2.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery results were within the laboratory specified acceptance criteria.

2.6 Surrogates

Acceptable surrogate recoveries were reported.

2.7 Field Duplicate

A field duplicate was collected, but was not analyzed for SVOCs.

2.8 Sensitivity

The samples were reported to the MDLs. No elevated non-detect results were reported.

The MDLs were at or below the NYSDEC DER10 App 5 Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010. It was noted that no NYSDEC DER10 App 5 Constituent Levels for Imported Fill were listed for the following compounds:

2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dinitrotoluene
2-Methylphenol
Dibenzofuran
Hexachlorobenzene

Hexachlorobutadiene
Hexachloroethane
Methylphenol, 3 & 4
Nitrobenzene
Pyridine

2.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The sample date and time was added to the sample IDs in the EDD and was not added to the sample IDs in the laboratory report. No other discrepancies were identified between the level II report and the EDD.

3.0 POLYCHLORINATED BIPHENYLS

The samples were analyzed for PCBs by EPA Methods 3541/8082A.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

⊗ Overall Assessment
✓ Holding Times
✓ Method Blank
✓ Matrix Spike/Matrix Spike Duplicate
✓ Laboratory Control Sample
✓ Surrogates
✓ Field Duplicate
✓ Sensitivity
✓ Electronic Data Deliverable Review

3.1 Overall Assessment

The PCB data reported in this data set are considered usable for meeting project objectives. The analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this data set is 100%.

The samples contain mixtures of PCBs 1248, 1254 and 1260. There are peaks in 1248 and 1254 that are in both of these PCBs and peaks in 1254 and 1260 that are in both of these PCBs; therefore, there is contribution between PCBs when more than one PCB is detected in a sample. Therefore, based on professional and technical judgment, the concentrations of PCBs 1248, 1254 and 1260 in these samples were J qualified as estimated.

Sample ID	Compound	Laboratory Concentration (mg/kg)	Laboratory Flag	Validation Concentration (mg/kg)	Validation Qualifier	Reason Code
WB6-7, S1, C 72517	PCB-1248	0.78	NA	0.78	J	13
WB6-7, S1, C 72517	PCB-1254	0.29	NA	0.29	J	13
WB6-7, S1, C 72517	PCB-1260	0.041	NA	0.041	J	13
WB6-7, S2, C 72517	PCB-1248	0.98	NA	0.98	J	13
WB6-7, S2, C 72517	PCB-1254	0.43	NA	0.43	J	13
WB6-7, S2, C 72517	PCB-1260	0.059	NA	0.059	J	13

Sample ID	Compound	Laboratory Concentration (mg/kg)	Laboratory Flag	Validation Concentration (mg/kg)	Validation Qualifier	Reason Code
WB7-8, S5, C 72517	PCB-1248	0.87	NA	0.87	J	13
WB7-8, S5, C 72517	PCB-1254	0.36	NA	0.36	J	13
WB7-8, S5, C 72517	PCB-1260	0.038	NA	0.038	J	13

mg/kg-milligrams per kilograms
NA-not applicable

3.2 Holding Times

No holding times are listed in the referenced method for PCB analyses. The samples were extracted and analyzed within 3 days of collection. Therefore, no qualifications were applied to the data, based on professional and technical judgment.

3.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 218279). PCBs were not detected in the method blank above the MDLs.

3.4 Matrix Spike/Matrix Spike Duplicate

MS/MSD pairs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). A sample set specific MS/MSD pair was reported, using sample WB7-8, S5, C 72517. The recovery and RPD results were within the laboratory specified acceptance criteria.

3.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery results were within the laboratory specified acceptance criteria.

3.6 Surrogates

Acceptable surrogate recoveries were reported.

3.7 Field Duplicate

A field duplicate was collected, but was not analyzed for PCBs.

3.8 Sensitivity

The samples were reported to the MDLs. No elevated non-detect results were reported.

It was noted that no NYSDEC constituent levels were listed for PCBs.

3.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The sample date and time was added to the sample IDs in the EDD and was not added to the sample IDs in the laboratory report. No other discrepancies were identified between the level II report and the EDD.

4.0 METALS

The samples were analyzed for metals by EPA methods 3050B/6010C (Mercury evaluated separately in Section 5.0, below).

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

4.1 Overall Assessment

The metals data reported in this data set are considered usable for meeting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid

analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this data set is 100%.

4.2 Holding Times

The holding time for the metals analysis of solid samples is 180 days from sample collection to analysis. The holding times were met for the sample analyses.

4.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 218293). The metals were not detected in the method blank above the MDLs.

4.4 Matrix Spike/Matrix Spike Duplicate

MS/MSD pairs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). A sample set specific MS/MSD pair was reported, using sample WB7-8, S5, C 72517. The recovery and RPD results were within the laboratory specified acceptance criteria, with the following exception.

The MS recovery of manganese was high, outside laboratory specific acceptance criteria. Since the concentration of manganese in the parent sample was greater than four times the spike concentration, no qualifications were applied to the data, based on technical and professional judgement.

4.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery results were within the laboratory specified acceptance criteria.

4.6 Laboratory Duplicate

A laboratory duplicate was not reported.

4.7 Field Duplicate

A field duplicate was collected, but was not analyzed for metals.

4.8 Sensitivity

The samples were reported to the MDLs. No elevated non-detect results were reported.

The MDLs were at or below the NYSDEC DER10 App 5 Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010. It was noted that no NYSDEC constituent level was listed for chromium.

4.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The sample date and time was added to the sample IDs in the EDD and was not added to the sample IDs in the laboratory report. No other discrepancies were identified between the level II report and the EDD.

5.0 MERCURY

The samples were analyzed for mercury by EPA method 7471B.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

5.1 Overall Assessment

The mercury data reported in this data set are considered usable for meeting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this data set is 100%.

5.2 Holding Times

The holding time for the mercury analysis of solid samples is 28 days from sample collection to analysis. The holding times were met for the sample analyses.

5.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 218383). Mercury was not detected in the method blank above the MDL.

5.4 Matrix Spike/Matrix Spike Duplicate

MS/MSD pairs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). A sample set specific MS/MSD pair was reported, using sample WB7-8, S5, C 72517. The recovery and RPD results were within the laboratory specified acceptance criteria.

5.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery result was within the laboratory specified acceptance criteria.

5.6 Laboratory Duplicate

A laboratory duplicate was not reported.

5.7 Field Duplicate

A field duplicate was collected, but was not analyzed for mercury.

5.8 Sensitivity

The samples were reported to the MDL. No elevated non-detect results were reported.

The MDL was at or below the NYSDEC DER10 App 5 Constituent Level for Imported Fill or Soil Restricted Residential Use May 2010.

5.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The sample date and time was added to the sample IDs in the EDD and was not added to the sample IDs in the laboratory report. No other discrepancies were identified between the level II report and the EDD.

6.0 TOTAL CYANIDE

The samples were analyzed for total cyanide by EPA Methods 9010C/9014.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

6.1 Overall Assessment

The total cyanide data reported in this data set are considered usable for meeting project objectives. The analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this data set is 100%.

6.2 Holding Times

The holding time for the total cyanide analysis of solid samples is 14 days from sample collection to analysis. The holding times were met for the sample analyses.

6.3 Method Blanks

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 218282). Cyanide was not detected in the method blank above the MDL.

6.4 Matrix Spike/Matrix Spike Duplicate

MS/MSD pairs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). A sample set specific MS/MSD pair was reported, using sample WB7-8, S5, C 72517. The recovery and RPD results were within the laboratory specified acceptance criteria.

6.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Three LCSs were reported. The recovery results were within the laboratory specified acceptance criteria.

6.6 Laboratory Duplicate

Laboratory duplicates were not reported.

6.7 Field Duplicate

A field duplicate was collected, but was not analyzed for cyanide.

6.8 Sensitivity

The samples were reported to the MDL. No elevated non-detect results were reported.

The MDL was at or below the NYSDEC DER10 App 5 Constituent Level for Imported Fill or Soil Restricted Residential Use May 2010.

6.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The sample date and time was added to the sample IDs in the EDD and was not added to the sample IDs in the laboratory report. No other discrepancies were identified between the level II report and the EDD.

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ATTACHMENT 1
DATA VALIDATION QUALIFIER DEFINITIONS AND INTERPRETATION KEY
Assigned by Geosyntec's Data Validation Team

DATA QUALIFIER DEFINITIONS

U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

J+ The analyte was positively identified; however, the associated numerical value is likely to be higher that the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.

J- The analyte was positively identified; however, the associated numerical value is likely to be lower that the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ATTACHMENT 2
DATA VALIDATION REASON CODES
Assigned by Geosyntec's Data Validation Team

Valid Value	Description
1	Preservation requirement not met
2	Analysis holding time exceeded
3	Blank contamination (i.e., method, trip, equipment, etc.)
4	Matrix spike/matrix spike duplicate recovery or RPD outside limits
5	LCS recovery outside limits
6	Surrogate recovery outside limits
7	Field Duplicate RPD exceeded
8	Serial dilution percent difference exceeded
9	Calibration criteria not met
10	Linear range exceeded
11	Internal standard criteria not met
12	Lab duplicates RPD exceeded
13	Other

RPD-relative percent difference

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Request to Import/Reuse Fill or Soil

This form is based on the information required by DER-10, Section 5.4(e). Use of this form is not a substitute for reading the applicable Technical Guidance document.

SECTION 1 – SITE BACKGROUND

The allowable site use is: Restricted Residential Use

Have Ecological Resources been identified? yes

Is this soil originating from the site? no

How many cubic yards of soil will be imported/reused? 800-1000

If greater than 1000 cubic yards will be imported, enter volume to be imported:

SECTION 2 – MATERIAL OTHER THAN SOIL

Is the material to be imported gravel, rock or stone? no

Does it contain less than 10%, by weight, material that would pass a size 80 sieve? yes

Is this virgin material from a permitted mine or quarry? yes

Is this material recycled concrete or brick from a DEC registered processing facility? no

SECTION 3 - SAMPLING

Provide a brief description of the number and type of samples collected in the space below:

Seven (7) Discrete Samples were collected and analyzed for VOCs. Two (2) Composite Samples were collected and analyzed for SVOCs, Inorganics, and PCBs/Pesticides. The chain of custody incorrectly shows the same Sample ID for the composite samples and the first two discrete VOC samples. The Analytical Results have been attached to this form.

Two (2) composite samples were collected and analyzed for grain size distribution and moisture-density.

Example Text: 5 discrete samples were collected and analyzed for VOCs. 2 composite samples were collected and analyzed for SVOCs, Inorganics & PCBs/Pesticides.

If the material meets requirements of DER-10 section 5.5 (other material), no chemical testing needed.

SECTION 3 CONT'D - SAMPLING

Provide a brief written summary of the sampling results or attach evaluation tables (compare to DER-10, Appendix 5):

Analytical results are compared to Restricted Residential SCO.

VOC analyses: acetone, benzene, toluene, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene and total xylenes were detected in 7 of 7 samples at levels below Restricted Residential SCOs.

There were no detections of SVOCs, PCBs, or pesticides in the two composite samples.

Metals analyses: arsenic, barium, beryllium, copper, lead manganese, nickel, zinc, and mercury were detected at levels below Restricted Residential SCOs.

Example Text: Arsenic was detected up to 17 ppm in 1 (of 5) samples; the allowable level is 16 ppm.

If Ecological Resources have been identified use the "If Ecological Resources are Present" column in Appendix 5.

SECTION 4 – SOURCE OF FILL

Name of person providing fill and relationship to the source:

Edger Enterprises

Location where fill was obtained:

Brewer's Pit located in Horseheads NY

Identification of any state or local approvals as a fill source:

NYSDEC Facility ID 8-0734-00150

If no approvals are available, provide a brief history of the use of the property that is the fill source:

Provide a list of supporting documentation included with this request:

Geotechnical Data and the Chemical Analysis Reports

The information provided on this form is accurate and complete.

	6-23-17
Signature	Date
Kyle Snyder	
Print Name	
RECON	
Firm	

TABLE 1
Request for Reuse - Windrows WB 6-7 Sections 3 and 4
Former Sperry Remington Site - North Portion
Elmira, New York

				Field_ID	WB6-7, S3, A 072617	WB6-7, S3, B 072617	WB6-7, S3, C 072617	WB6-7, S4, A 072617	WB6-7, S4, B 072617	WB6-7, S4, C 072617
				Sample Date	7/26/2017	7/26/2017	7/26/2017	7/26/2017	7/26/2017	7/26/2017
				Lab_Report_Number	180-68622-1	180-68622-1	180-68622-1	180-68622-1	180-68622-1	180-68622-1
				NYSDEC DER10 App 5 Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010						
Group	**Analyte**	**Units**	**EQL**							
PCBs	Arochlor 1016	mg/kg	0.01		-	-	<0.01U	-	-	<0.01U
	Arochlor 1221	mg/kg	0.0098		-	-	<0.01U	-	-	<0.0098U
	Arochlor 1232	mg/kg	0.0075		-	-	<0.0077U	-	-	<0.0075U
	Arochlor 1242	mg/kg	0.015		-	-	<0.015U	-	-	<0.015U
	Arochlor 1248	mg/kg	0.019		-	-	0.4J	-	-	0.76J
	Arochlor 1254	mg/kg	0.019		-	-	0.19J	-	-	0.34J
	Arochlor 1260	mg/kg	0.019		-	-	0.041J	-	-	0.068J
	Arochlor 1268	mg/kg	0.0058		-	-	<0.0059U	-	-	<0.0058U
	Arochlor 1262	mg/kg	0.014		-	-	<0.014U	-	-	<0.014U
	Arochlor-unspecified	mg/kg		1	-	-	0.631	-	-	1.168
SVOCs	1,4-Dioxane	mg/kg	0.0057	0.1	-	-	<0.0058U	-	-	<0.0057U
	2,4,5-trichlorophenol	mg/kg	0.0036		-	-	<0.0037U	-	-	<0.0036U
	2,4,6-trichlorophenol	mg/kg	0.0033		-	-	<0.0034U	-	-	<0.0033U
	2,4-Dinitrotoluene	mg/kg	0.005		-	-	<0.0051U	-	-	<0.005U
	2-methylphenol	mg/kg	0.0033	0.33	-	-	<0.0034U	-	-	<0.0033U
	4-methylphenol	mg/kg	0.0034	0.33	-	-	<0.0034U	-	-	0.0062J
	Acenaphthene	mg/kg	0.0076	98	-	-	0.027	-	-	0.026
	Acenaphthylene	mg/kg	0.0076	100	-	-	0.04	-	-	0.032
	Anthracene	mg/kg	0.0076	100	-	-	0.082	-	-	0.1
	Benz(a)anthracene	mg/kg	0.0076	1	-	-	0.27	-	-	0.22
	Benzo(a) pyrene	mg/kg	0.0076	1	-	-	0.27	-	-	0.2
	Benzo(b)fluoranthene	mg/kg	0.0076	1	-	-	0.34	-	-	0.23
	Benzo(g,h,i)perylene	mg/kg	0.0076	100	-	-	0.26	-	-	0.22
	Benzo(k)fluoranthene	mg/kg	0.0076	1.7	-	-	0.14	-	-	0.12
	Chrysene	mg/kg	0.0076	1	-	-	0.31	-	-	0.24
	Dibenz(a,h)anthracene	mg/kg	0.0076	0.33	-	-	0.057	-	-	0.05
	Dibenzofuran	mg/kg	0.037	59	-	-	0.02J	-	-	0.048
	Fluoranthene	mg/kg	0.0076	100	-	-	0.5	-	-	0.48
	Fluorene	mg/kg	0.0076	100	-	-	0.029	-	-	0.043
	Hexachlorobenzene	mg/kg	0.003	1.2	-	-	<0.0031U	-	-	<0.003U
	Hexachlorobutadiene	mg/kg	0.0024		-	-	<0.0024U	-	-	<0.0024U
	Hexachloroethane	mg/kg	0.0027		-	-	<0.0028U	-	-	<0.0027U
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.0076	0.5	-	-	0.22	-	-	0.18
	Naphthalene	mg/kg	0.0076	12	-	-	0.023	-	-	0.04
	Nitrobenzene	mg/kg	0.0029		-	-	<0.003U	-	-	<0.0029U
	Pentachlorophenol	mg/kg	0.071	0.8	-	-	<0.073U	-	-	<0.071U
	Phenanthrene	mg/kg	0.0076	100	-	-	0.23	-	-	0.25
	Phenol	mg/kg	0.0051	0.33	-	-	<0.0052U	-	-	<0.0051U
	Pyrene	mg/kg	0.0076	100	-	-	0.4	-	-	0.38
	Pyridine	mg/kg	0.0036		-	-	<0.0037U	-	-	<0.0036U
Inorganics	Cyanide Total	mg/kg	0.56	27	-	-	0.37J	-	-	0.48J
Metals	Arsenic	mg/kg	1.1	16	-	-	5.8	-	-	7.2
	Barium	mg/kg	22	400	-	-	100	-	-	160
	Beryllium	mg/kg	0.43	47	-	-	0.34J	-	-	0.35J
	Cadmium	mg/kg	0.54	4.3	-	-	0.2J	-	-	0.19J
	Chromium (III+VI)	mg/kg	0.54	19	-	-	11	-	-	15
	Copper	mg/kg	2.7	270	-	-	49	-	-	120
	Lead	mg/kg	1.1	400	-	-	64	-	-	110
	Manganese	mg/kg	1.6	2000	-	-	390	-	-	390
	Nickel	mg/kg	4.3	130	-	-	24	-	-	46
	Selenium	mg/kg	0.49	4	-	-	<0.49U	-	-	0.88J
	Silver	mg/kg	0.18	8.3	-	-	<0.21U	-	-	<0.18U
	Zinc	mg/kg	2.2	2480	-	-	68	-	-	90
	Mercury	mg/kg	0.039	0.73	-	-	0.035J	-	-	0.058

TABLE 1
Request for Reuse - Windrows WB 6-7 Sections 3 and 4
Former Sperry Remington Site - North Portion
Elmira, New York

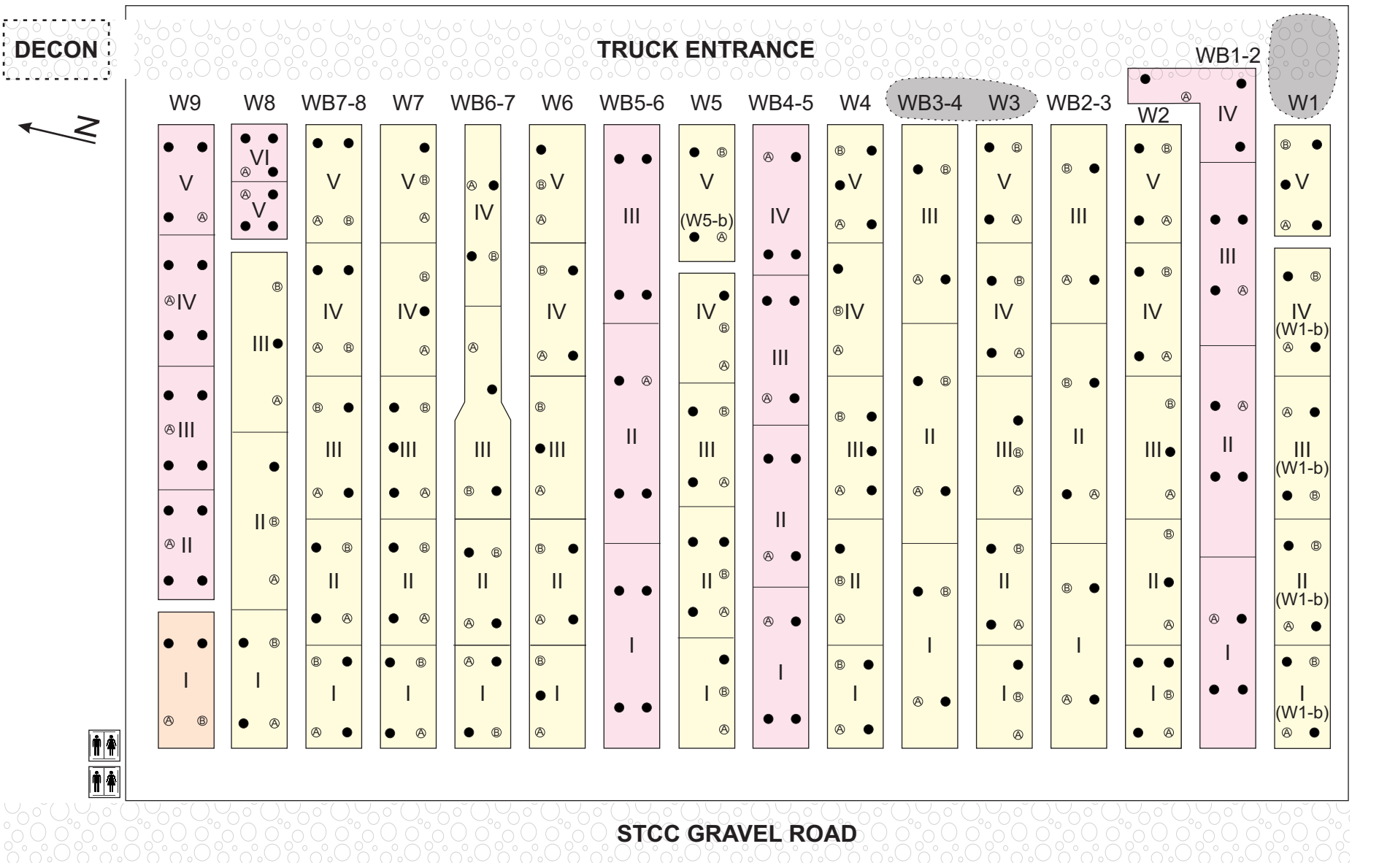
				Field_ID	WB6-7, S3, A 072617	WB6-7, S3, B 072617	WB6-7, S3, C 072617	WB6-7, S4, A 072617	WB6-7, S4, B 072617	WB6-7, S4, C 072617
				Sample Date	7/26/2017	7/26/2017	7/26/2017	7/26/2017	7/26/2017	7/26/2017
				Lab_Report_Number	180-68622-1	180-68622-1	180-68622-1	180-68622-1	180-68622-1	180-68622-1
				NYSDEC DER10 App 5 Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010						
Group	**Analyte**	**Units**	**EQL**							
VOCs	1,1,1-trichloroethane	mg/kg	0.0019	0.68	<0.0019U	<0.0025U	-	<0.002U	<0.0021U	-
	1,1-dichloroethane	mg/kg	0.0014	0.27	<0.0014U	<0.0018U	-	<0.0015U	<0.0015U	-
	1,1-dichloroethene	mg/kg	0.0022	0.33	<0.0022U	<0.0029U	-	<0.0023U	<0.0023U	-
	1,2,4-trimethylbenzene	mg/kg	0.001	3.6	<0.001U	<0.0014U	-	<0.0011U	<0.0011U	-
	1,2-dichlorobenzene	mg/kg	0.0031	1.1	<0.0031U	<0.004U	-	<0.0032U	<0.0033U	-
	1,2-dichloroethane	mg/kg	0.0011	0.02	<0.0011U	<0.0015U	-	<0.0012U	<0.0012U	-
	1,3,5-trimethylbenzene	mg/kg	0.0013	8.4	<0.0013U	<0.0017U	-	<0.0014U	<0.0014U	-
	1,3-dichlorobenzene	mg/kg	0.0012	2.4	<0.0012U	<0.0016U	-	<0.0013U	<0.0013U	-
	1,4-dichlorobenzene	mg/kg	0.00079	1.8	<0.00079U	<0.001U	-	<0.00082U	<0.00083U	-
	Methyl Ethyl Ketone	mg/kg	0.0022	0.12	<0.0022U	<0.0029U	-	<0.0023U	<0.0024U	-
	Acetone	mg/kg	0.0024	0.05	<0.0024U	<0.0032U	-	<0.016U	<0.016U	-
	Benzene	mg/kg	0.0015	0.06	<0.0015U	<0.002U	-	<0.0016U	<0.0016U	-
	Carbon tetrachloride	mg/kg	0.0026	0.76	<0.0026U	<0.0033U	-	<0.0027U	<0.0027U	-
	Chlorobenzene	mg/kg	0.0012	1.1	<0.0012U	<0.0016U	-	<0.0013U	<0.0013U	-
	Chloroform	mg/kg	0.0016	0.37	<0.0016U	<0.0021U	-	<0.0017U	<0.0017U	-
	cis-1,2-dichloroethene	mg/kg	0.0012	0.25	<0.0012U	<0.0016U	-	<0.0013U	<0.0013U	-
	Dichloromethane	mg/kg	0.0018	0.05	<0.0018U	<0.0024U	-	<0.0019U	<0.0019U	-
	Ethylbenzene	mg/kg	0.0017	1	<0.0017U	<0.0022U	-	<0.0017U	<0.0018U	-
	Methyl-tert-butyl ether	mg/kg	0.0028	0.93	<0.0028U	<0.0037U	-	<0.003U	<0.003U	-
	n-butylbenzene	mg/kg	0.0029	12	<0.0029U	<0.0038U	-	<0.003U	<0.0031U	-
	n-propylbenzene	mg/kg	0.0016	3.9	<0.0016U	<0.0021U	-	<0.0017U	<0.0017U	-
	sec-butylbenzene	mg/kg	0.0019	11	<0.0019U	<0.0024U	-	<0.002U	<0.002U	-
	Trichloroethene	mg/kg	0.0012	0.47	<0.0012U	<0.0015U	-	0.0014J	<0.0012U	-
	tert-butylbenzene	mg/kg	0.0014	5.9	<0.0014U	<0.0018U	-	<0.0015U	<0.0015U	-
	Tetrachloroethene	mg/kg	0.0015	1.3	<0.0015U	<0.002U	-	<0.0016U	<0.0016U	-
	Toluene	mg/kg	0.0013	0.7	<0.0013U	<0.0017U	-	<0.0014U	<0.0014U	-
	trans-1,2-dichloroethene	mg/kg	0.002	0.19	<0.002U	<0.0025U	-	<0.002U	<0.0021U	-
	Vinyl chloride	mg/kg	0.0028	0.02	<0.0028U	<0.0037U	-	<0.003U	<0.003U	-
	Xylene Total	mg/kg	0.0033	1.6	<0.0033U	<0.0043U	-	<0.0035U	<0.0035U	-

DATA QUALIFIER DEFINITIONS

U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
J+ The analyte was positively identified; however, the associated numerical value is likely to be higher that the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.
J- The analyte was positively identified; however, the associated numerical value is likely to be lower that the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.
UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

FORMER SPERRY REMINGTION STCC STOCKPILE AREA

as of August 8, 2017



Legend

10<50 ppm | TSCA overlay | <10 ppm | Gravel Road(s) | I-VI Windrow ≤100yd³ sections | Sample(s)

Mulch, Asphalt, Concrete

Note: This figure is not to scale, but depicts general location of windrows, sections, approximate sampling locations, and material PCB concentrations. There is no SIV of W8.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

TestAmerica Job ID: 180-68622-1
Client Project/Site: Former Sperry Remington Site - North IRM

For:
Geosyntec Consultants, Inc.
10211 Wincopin Circle
4'th Floor
Columbia, Maryland 21044

Attn: Mr. Aron Krasnopoler

Authorized for release by:
8/3/2017 4:59:07 PM

David Dunlap, Senior Project Manager
(412)963-2432
david.dunlap@testamericainc.com

LINKS

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Job ID: 180-68622-1

Laboratory: TestAmerica Pittsburgh

Narrative

Job Narrative
180-68622-1

Receipt
The samples were received on 7/27/2017 8:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.1° C.

GC/MS VOA
Method(s) 8260C: The continuing calibration verification (CCV) analyzed in batch 180-218353 was below method criteria for the following analyte: vinyl chloride. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte is considered estimated.

Method(s) 8260C: The continuing calibration verification (CCV) analyzed in batch 180-218548 was below method criteria for the following analyte: acetone. A CCV standard at or below the reporting limit (RL) was analyzed with the affected sample and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte is considered estimated.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals
Method(s) 6010C: The low level continuing calibration verification (CCVL 180-218674/88) recovered above the control limit for selenium. As the CCVL was high and the associated samples had selenium either not detected or detected at a concentration below the reporting limit, the results were reported.

Method(s) 7471B: The matrix spike duplicate (MSD) recovery of sample WB6-7, S3, C 072617 (180-68622-3) was above the control limits for mercury. The recoveries of the matrix spike (MS) and laboratory control sample (LCS) were within the control limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.

General Chemistry

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc. TestAmerica Job ID: 180-68622-1
Project/Site: Former Sperry Remington Site - North IRM

Laboratory: TestAmerica Pittsburgh

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	11182	03-31-18

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
2540G		Solid	Percent Moisture
2540G		Solid	Percent Solids
8270D LL	3541	Solid	1,4-Dioxane

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68622-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-68622-1	WB6-7, S3, A 072617	Solid	07/26/17 13:45	07/27/17 08:00
180-68622-2	WB6-7, S3, B 072617	Solid	07/26/17 13:40	07/27/17 08:00
180-68622-3	WB6-7, S3, C 072617	Solid	07/26/17 13:50	07/27/17 08:00
180-68622-4	WB6-7, S4, A 072617	Solid	07/26/17 15:00	07/27/17 08:00
180-68622-5	WB6-7, S4, B 072617	Solid	07/26/17 15:05	07/27/17 08:00
180-68622-6	WB6-7, S4, C 072617	Solid	07/26/17 15:10	07/27/17 08:00
180-68622-9	TRIP BLANK#1	Water	07/26/17 00:00	07/27/17 08:00

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68622-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL PIT
8260C	Volatile Organic Compounds (GC/MS)	SW846	TAL PIT
8270D LL	Semivolatile Organic Compounds by GC/MS - Low Level	SW846	TAL PIT
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL PIT
6010C	Metals (ICP)	SW846	TAL PIT
7471B	Mercury (CVAA)	SW846	TAL PIT
2540G	SM 2540G	SM22	TAL PIT
9014	Cyanide	SW846	TAL PIT

Protocol References:

SM22 = SM22

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68622-1

Client Sample ID: WB6-7, S3, A 072617
Lab Sample ID: 180-68622-1
Date Collected: 07/26/17 13:45
Matrix: Solid
Date Received: 07/27/17 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218418	07/28/17 11:41	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: WB6-7, S3, A 072617
Lab Sample ID: 180-68622-1
Date Collected: 07/26/17 13:45
Matrix: Solid
Date Received: 07/27/17 08:00
Percent Solids: 89.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			7.235 g	5 mL	218356	07/28/17 05:40	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	218353	07/28/17 17:11	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: WB6-7, S3, B 072617
Lab Sample ID: 180-68622-2
Date Collected: 07/26/17 13:40
Matrix: Solid
Date Received: 07/27/17 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218418	07/28/17 11:41	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: WB6-7, S3, B 072617
Lab Sample ID: 180-68622-2
Date Collected: 07/26/17 13:40
Matrix: Solid
Date Received: 07/27/17 08:00
Percent Solids: 82.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.0473 g	5 mL	218356	07/28/17 05:40	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	218353	07/28/17 13:23	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: WB6-7, S3, C 072617
Lab Sample ID: 180-68622-3
Date Collected: 07/26/17 13:50
Matrix: Solid
Date Received: 07/27/17 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218418	07/28/17 11:41	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: WB6-7, S3, C 072617
Lab Sample ID: 180-68622-3
Date Collected: 07/26/17 13:50
Matrix: Solid
Date Received: 07/27/17 08:00
Percent Solids: 84.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.2 g	0.5 mL	218664	08/01/17 03:39	BAP	TAL PIT

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68622-1

Client Sample ID: WB6-7, S3, C 072617

Lab Sample ID: 180-68622-3
Date Collected: 07/26/17 13:50
Matrix: Solid
Date Received: 07/27/17 08:00
Percent Solids: 84.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8270D LL		1	1 mL	1 mL	218731	08/01/17 16:31	VVP	TAL PIT
	Instrument ID: CH732									
Total/NA	Prep	3541			15.1 g	20.0 mL	218666	08/01/17 03:45	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	218720	08/01/17 10:12	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	218721	08/01/17 10:13	JMO	TAL PIT
Total/NA	Analysis	8082A		1			218951	08/03/17 09:11	JMO	TAL PIT
	Instrument ID: CHGC8									
Total/NA	Prep	3050B			0.95 g	100 mL	218412	07/28/17 10:54	CRM	TAL PIT
Total/NA	Analysis	6010C		1			218674	07/31/17 14:11	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.56 g	100 mL	218386	07/31/17 08:10	RJR	TAL PIT
Total/NA	Analysis	7471B		1			218639	07/31/17 13:39	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.01 g	50 mL	218907	08/02/17 13:35	JAS	TAL PIT
Total/NA	Analysis	9014		1			219021	08/03/17 11:14	JAS	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: WB6-7, S4, A 072617

Lab Sample ID: 180-68622-4
Date Collected: 07/26/17 15:00
Matrix: Solid
Date Received: 07/27/17 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218418	07/28/17 11:41	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: WB6-7, S4, A 072617

Lab Sample ID: 180-68622-4
Date Collected: 07/26/17 15:00
Matrix: Solid
Date Received: 07/27/17 08:00
Percent Solids: 87.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			7.1134 g	5 mL	218356	07/28/17 05:40	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	218353	07/28/17 13:45	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: WB6-7, S4, B 072617

Lab Sample ID: 180-68622-5
Date Collected: 07/26/17 15:05
Matrix: Solid
Date Received: 07/27/17 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218418	07/28/17 11:41	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: WB6-7, S4, B 072617

Lab Sample ID: 180-68622-5
Date Collected: 07/26/17 15:05
Matrix: Solid
Date Received: 07/27/17 08:00
Percent Solids: 89.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.834 g	5 mL	218356	07/28/17 05:40	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	218353	07/28/17 14:08	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: WB6-7, S4, C 072617

Lab Sample ID: 180-68622-6
Date Collected: 07/26/17 15:10
Matrix: Solid
Date Received: 07/27/17 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218418	07/28/17 11:41	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: WB6-7, S4, C 072617

Lab Sample ID: 180-68622-6
Date Collected: 07/26/17 15:10
Matrix: Solid
Date Received: 07/27/17 08:00
Percent Solids: 86.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.3 g	0.5 mL	218664	08/01/17 03:39	BAP	TAL PIT
Total/NA	Analysis	8270D LL		1	1 mL	1 mL	218731	08/01/17 17:52	VVP	TAL PIT
	Instrument ID: CH732									
Total/NA	Prep	3541			15.3 g	20.0 mL	218666	08/01/17 03:45	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	218720	08/01/17 10:12	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	218721	08/01/17 10:13	JMO	TAL PIT
Total/NA	Analysis	8082A		1			218951	08/03/17 09:31	JMO	TAL PIT
	Instrument ID: CHGC8									
Total/NA	Prep	3050B			1.07 g	100 mL	218412	07/28/17 10:54	CRM	TAL PIT
Total/NA	Analysis	6010C		1			218674	07/31/17 14:16	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.58 g	100 mL	218386	07/31/17 08:10	RJR	TAL PIT
Total/NA	Analysis	7471B		1			218639	07/31/17 13:45	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.04 g	50 mL	218907	08/02/17 13:35	JAS	TAL PIT
Total/NA	Analysis	9014		1			219021	08/03/17 11:19	JAS	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: TRIP BLANK#1

Lab Sample ID: 180-68622-9
Date Collected: 07/26/17 00:00
Matrix: Water
Date Received: 07/27/17 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	218548	07/31/17 09:12	FBB	TAL PIT
	Instrument ID: CHHP6									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68622-1

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Analyst References:

Lab: TAL PIT

Batch Type: Cleanup

JMO = John Oravec

Batch Type: Prep

BAP = Brian Pino

CRM = Caitlin McEvoy

JAS = Joshua Schmidt

KLG = Kathy Gordon

RJR = Ron Rosenbaum

Batch Type: Analysis

FBB = Frank Bungard

JAS = Joshua Schmidt

JMO = John Oravec

JTL = Justin Landry

KLG = Kathy Gordon

RJG = Rob Good

RJR = Ron Rosenbaum

VVP = Vincent Piccolino

Client Sample ID: WB6-7, S3, A 072617

Lab Sample ID: 180-68622-1
Date Collected: 07/26/17 13:45
Matrix: Solid
Date Received: 07/27/17 08:00
Percent Solids: 89.5

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.015	0.0024	mg/Kg	☼	07/28/17 05:40	07/28/17 17:11	1
Benzene	ND		0.0039	0.0015	mg/Kg	☼	07/28/17 05:40	07/28/17 17:11	1
2-Butanone (MEK)	ND		0.0039	0.0022	mg/Kg	☼	07/28/17 05:40	07/28/17 17:11	1
Carbon tetrachloride	ND		0.0039	0.0026	mg/Kg	☼	07/28/17 05:40	07/28/17 17:11	1
Chlorobenzene	ND		0.0039	0.0012	mg/Kg	☼	07/28/17 05:40	07/28/17 17:11	1
Chloroform	ND		0.0039	0.0016	mg/Kg	☼	07/28/17 05:40	07/28/17 17:11	1
cis-1,2-Dichloroethene	ND		0.0039	0.0012	mg/Kg	☼	07/28/17 05:40	07/28/17 17:11	1
1,2-Dichlorobenzene	ND		0.0039	0.0031	mg/Kg	☼	07/28/17 05:40	07/28/17 17:11	1
1,3-Dichlorobenzene	ND		0.0039	0.0012	mg/Kg	☼	07/28/17 05:40	07/28/17 17:11	1
1,4-Dichlorobenzene	ND		0.0039	0.00079	mg/Kg	☼	07/28/17 05:40	07/28/17 17:11	1
1,1-Dichloroethane	ND		0.0039	0.0014	mg/Kg	☼	07/28/17 05:40	07/28/17 17:11	1
1,2-Dichloroethane	ND		0.0039	0.0011	mg/Kg	☼	07/28/17 05:40	07/28/17 17:11	1
1,1-Dichloroethene	ND		0.0039	0.0022	mg/Kg	☼	07/28/17 05:40	07/28/17 17:11	1
Ethylbenzene	ND		0.0039	0.0017	mg/Kg	☼	07/28/17 05:40	07/28/17 17:11	1
Methylene Chloride	ND		0.0039	0.0018	mg/Kg	☼	07/28/17 05:40	07/28/17 17:11	1
Methyl tert-butyl ether	ND		0.0039	0.0028	mg/Kg	☼	07/28/17 05:40	07/28/17 17:11	1
n-Butylbenzene	ND		0.0039	0.0029	mg/Kg	☼	07/28/17 05:40	07/28/17 17:11	1
N-Propylbenzene	ND		0.0039	0.0016	mg/Kg	☼	07/28/17 05:40	07/28/17 17:11	1
sec-Butylbenzene	ND		0.0039	0.0019	mg/Kg	☼	07/28/17 05:40	07/28/17 17:11	1
tert-Butylbenzene	ND		0.0039	0.0014	mg/Kg	☼	07/28/17 05:40	07/28/17 17:11	1
Tetrachloroethene	ND		0.0039	0.0015	mg/Kg	☼	07/28/17 05:40	07/28/17 17:11	1
Toluene	ND		0.0039	0.0013	mg/Kg	☼	07/28/17 05:40	07/28/17 17:11	1
trans-1,2-Dichloroethene	ND		0.0039	0.0020	mg/Kg	☼	07/28/17 05:40	07/28/17 17:11	1
1,1,1-Trichloroethane	ND		0.0039	0.0019	mg/Kg	☼	07/28/17 05:40	07/28/17 17:11	1
Trichloroethene	ND		0.0039	0.0012	mg/Kg	☼	07/28/17 05:40	07/28/17 17:11	1
1,2,4-Trimethylbenzene	ND		0.0039	0.0010	mg/Kg	☼	07/28/17 05:40	07/28/17 17:11	1
1,3,5-Trimethylbenzene	ND		0.0039	0.0013	mg/Kg	☼	07/28/17 05:40	07/28/17 17:11	1
Vinyl chloride	ND		0.0039	0.0028	mg/Kg	☼	07/28/17 05:40	07/28/17 17:11	1
Xylenes, Total	ND		0.0077	0.0033	mg/Kg	☼	07/28/17 05:40	07/28/17 17:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*63 - 120*	*07/28/17 05:40*	*07/28/17 17:11*	*1*
Dibromofluoromethane (Surr)	*103*		*68 - 121*	*07/28/17 05:40*	*07/28/17 17:11*	*1*
1,2-Dichloroethane-d4 (Surr)	*108*		*52 - 124*	*07/28/17 05:40*	*07/28/17 17:11*	*1*
Toluene-d8 (Surr)	*113*		*72 - 127*	*07/28/17 05:40*	*07/28/17 17:11*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**10.5**		0.1	0.1	%			07/28/17 11:41	1
Percent Solids	**89.5**		0.1	0.1	%			07/28/17 11:41	1

Client Sample ID: WB6-7, S3, B 072617

Lab Sample ID: 180-68622-2
Date Collected: 07/26/17 13:40
Matrix: Solid
Date Received: 07/27/17 08:00
Percent Solids: 82.4

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.020	0.0032	mg/Kg	☼	07/28/17 05:40	07/28/17 13:23	1
Benzene	ND		0.0050	0.0020	mg/Kg	☼	07/28/17 05:40	07/28/17 13:23	1
2-Butanone (MEK)	ND		0.0050	0.0029	mg/Kg	☼	07/28/17 05:40	07/28/17 13:23	1

Client Sample ID: WB6-7, S3, B 072617 — Lab Sample ID: 180-68622-2

Date Collected: 07/26/17 13:40 — **Matrix: Solid**
Date Received: 07/27/17 08:00 — **Percent Solids: 82.4**

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	ND		0.0050	0.0033	mg/Kg	☼	07/28/17 05:40	07/28/17 13:23	1
Chlorobenzene	ND		0.0050	0.0016	mg/Kg	☼	07/28/17 05:40	07/28/17 13:23	1
Chloroform	ND		0.0050	0.0021	mg/Kg	☼	07/28/17 05:40	07/28/17 13:23	1
cis-1,2-Dichloroethene	ND		0.0050	0.0016	mg/Kg	☼	07/28/17 05:40	07/28/17 13:23	1
1,2-Dichlorobenzene	ND		0.0050	0.0040	mg/Kg	☼	07/28/17 05:40	07/28/17 13:23	1
1,3-Dichlorobenzene	ND		0.0050	0.0016	mg/Kg	☼	07/28/17 05:40	07/28/17 13:23	1
1,4-Dichlorobenzene	ND		0.0050	0.0010	mg/Kg	☼	07/28/17 05:40	07/28/17 13:23	1
1,1-Dichloroethane	ND		0.0050	0.0018	mg/Kg	☼	07/28/17 05:40	07/28/17 13:23	1
1,2-Dichloroethane	ND		0.0050	0.0015	mg/Kg	☼	07/28/17 05:40	07/28/17 13:23	1
1,1-Dichloroethene	ND		0.0050	0.0029	mg/Kg	☼	07/28/17 05:40	07/28/17 13:23	1
Ethylbenzene	ND		0.0050	0.0022	mg/Kg	☼	07/28/17 05:40	07/28/17 13:23	1
Methylene Chloride	ND		0.0050	0.0024	mg/Kg	☼	07/28/17 05:40	07/28/17 13:23	1
Methyl tert-butyl ether	ND		0.0050	0.0037	mg/Kg	☼	07/28/17 05:40	07/28/17 13:23	1
n-Butylbenzene	ND		0.0050	0.0038	mg/Kg	☼	07/28/17 05:40	07/28/17 13:23	1
N-Propylbenzene	ND		0.0050	0.0021	mg/Kg	☼	07/28/17 05:40	07/28/17 13:23	1
sec-Butylbenzene	ND		0.0050	0.0024	mg/Kg	☼	07/28/17 05:40	07/28/17 13:23	1
tert-Butylbenzene	ND		0.0050	0.0018	mg/Kg	☼	07/28/17 05:40	07/28/17 13:23	1
Tetrachloroethene	ND		0.0050	0.0020	mg/Kg	☼	07/28/17 05:40	07/28/17 13:23	1
Toluene	ND		0.0050	0.0017	mg/Kg	☼	07/28/17 05:40	07/28/17 13:23	1
trans-1,2-Dichloroethene	ND		0.0050	0.0025	mg/Kg	☼	07/28/17 05:40	07/28/17 13:23	1
1,1,1-Trichloroethane	ND		0.0050	0.0025	mg/Kg	☼	07/28/17 05:40	07/28/17 13:23	1
Trichloroethene	ND		0.0050	0.0015	mg/Kg	☼	07/28/17 05:40	07/28/17 13:23	1
1,2,4-Trimethylbenzene	ND		0.0050	0.0014	mg/Kg	☼	07/28/17 05:40	07/28/17 13:23	1
1,3,5-Trimethylbenzene	ND		0.0050	0.0017	mg/Kg	☼	07/28/17 05:40	07/28/17 13:23	1
Vinyl chloride	ND		0.0050	0.0037	mg/Kg	☼	07/28/17 05:40	07/28/17 13:23	1
Xylenes, Total	ND		0.010	0.0043	mg/Kg	☼	07/28/17 05:40	07/28/17 13:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*63 - 120*	*07/28/17 05:40*	*07/28/17 13:23*	*1*
Dibromofluoromethane (Surr)	*108*		*68 - 121*	*07/28/17 05:40*	*07/28/17 13:23*	*1*
1,2-Dichloroethane-d4 (Surr)	*109*		*52 - 124*	*07/28/17 05:40*	*07/28/17 13:23*	*1*
Toluene-d8 (Surr)	*116*		*72 - 127*	*07/28/17 05:40*	*07/28/17 13:23*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**17.6**		0.1	0.1	%			07/28/17 11:41	1
Percent Solids	**82.4**		0.1	0.1	%			07/28/17 11:41	1

Client Sample ID: WB6-7, S3, C 072617 — Lab Sample ID: 180-68622-3

Date Collected: 07/26/17 13:50 — **Matrix: Solid**
Date Received: 07/27/17 08:00 — **Percent Solids: 84.9**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.027**		0.0078	0.0026	mg/Kg	☼	08/01/17 03:39	08/01/17 16:31	1
Acenaphthylene	**0.040**		0.0078	0.0026	mg/Kg	☼	08/01/17 03:39	08/01/17 16:31	1
Anthracene	**0.082**		0.0078	0.0029	mg/Kg	☼	08/01/17 03:39	08/01/17 16:31	1
Benzo[a]anthracene	**0.27**		0.0078	0.0031	mg/Kg	☼	08/01/17 03:39	08/01/17 16:31	1
Benzo[a]pyrene	**0.27**		0.0078	0.0032	mg/Kg	☼	08/01/17 03:39	08/01/17 16:31	1
Benzo[b]fluoranthene	**0.34**		0.0078	0.0034	mg/Kg	☼	08/01/17 03:39	08/01/17 16:31	1

Client Sample ID: WB6-7, S3, C 072617 **Lab Sample ID: 180-68622-3**
Date Collected: 07/26/17 13:50 **Matrix: Solid**
Date Received: 07/27/17 08:00 **Percent Solids: 84.9**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	**0.26**		0.0078	0.0034	mg/Kg	☼	08/01/17 03:39	08/01/17 16:31	1
Benzo[k]fluoranthene	**0.14**		0.0078	0.0027	mg/Kg	☼	08/01/17 03:39	08/01/17 16:31	1
Chrysene	**0.31**		0.0078	0.0030	mg/Kg	☼	08/01/17 03:39	08/01/17 16:31	1
Dibenz(a,h)anthracene	**0.057**		0.0078	0.0032	mg/Kg	☼	08/01/17 03:39	08/01/17 16:31	1
Dibenzofuran	**0.020**	**J**	0.038	0.0031	mg/Kg	☼	08/01/17 03:39	08/01/17 16:31	1
1,4-Dioxane	ND		0.077	0.0058	mg/Kg	☼	08/01/17 03:39	08/01/17 16:31	1
Fluoranthene	**0.50**		0.0078	0.0031	mg/Kg	☼	08/01/17 03:39	08/01/17 16:31	1
Fluorene	**0.029**		0.0078	0.0028	mg/Kg	☼	08/01/17 03:39	08/01/17 16:31	1
Hexachlorobenzene	ND		0.0078	0.0031	mg/Kg	☼	08/01/17 03:39	08/01/17 16:31	1
Indeno[1,2,3-cd]pyrene	**0.22**		0.0078	0.0030	mg/Kg	☼	08/01/17 03:39	08/01/17 16:31	1
2-Methylphenol	ND		0.038	0.0034	mg/Kg	☼	08/01/17 03:39	08/01/17 16:31	1
Methylphenol, 3 & 4	ND		0.038	0.0034	mg/Kg	☼	08/01/17 03:39	08/01/17 16:31	1
Naphthalene	**0.023**		0.0078	0.0028	mg/Kg	☼	08/01/17 03:39	08/01/17 16:31	1
Pentachlorophenol	ND		0.20	0.073	mg/Kg	☼	08/01/17 03:39	08/01/17 16:31	1
Phenanthrene	**0.23**		0.0078	0.0032	mg/Kg	☼	08/01/17 03:39	08/01/17 16:31	1
Phenol	ND		0.038	0.0052	mg/Kg	☼	08/01/17 03:39	08/01/17 16:31	1
Pyrene	**0.40**		0.0078	0.0034	mg/Kg	☼	08/01/17 03:39	08/01/17 16:31	1
Hexachloroethane	ND		38	2.8	ug/Kg	☼	08/01/17 03:39	08/01/17 16:31	1
Nitrobenzene	ND		77	3.0	ug/Kg	☼	08/01/17 03:39	08/01/17 16:31	1
Hexachlorobutadiene	ND		7.8	2.4	ug/Kg	☼	08/01/17 03:39	08/01/17 16:31	1
2,4,5-Trichlorophenol	ND		38	3.7	ug/Kg	☼	08/01/17 03:39	08/01/17 16:31	1
2,4,6-Trichlorophenol	ND		38	3.4	ug/Kg	☼	08/01/17 03:39	08/01/17 16:31	1
2,4-Dinitrotoluene	ND		38	5.1	ug/Kg	☼	08/01/17 03:39	08/01/17 16:31	1
Pyridine	ND		38	3.7	ug/Kg	☼	08/01/17 03:39	08/01/17 16:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*66*		*42 - 100*	*08/01/17 03:39*	*08/01/17 16:31*	*1*
2-Fluorophenol (Surr)	*66*		*21 - 107*	*08/01/17 03:39*	*08/01/17 16:31*	*1*
Nitrobenzene-d5 (Surr)	*61*		*35 - 109*	*08/01/17 03:39*	*08/01/17 16:31*	*1*
Phenol-d5 (Surr)	*62*		*29 - 105*	*08/01/17 03:39*	*08/01/17 16:31*	*1*
Terphenyl-d14 (Surr)	*64*		*36 - 113*	*08/01/17 03:39*	*08/01/17 16:31*	*1*
2,4,6-Tribromophenol (Surr)	*81*		*20 - 134*	*08/01/17 03:39*	*08/01/17 16:31*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.019	0.010	mg/Kg	☼	08/01/17 03:45	08/03/17 09:11	1
PCB-1221	ND		0.019	0.010	mg/Kg	☼	08/01/17 03:45	08/03/17 09:11	1
PCB-1232	ND		0.019	0.0077	mg/Kg	☼	08/01/17 03:45	08/03/17 09:11	1
PCB-1242	ND		0.019	0.015	mg/Kg	☼	08/01/17 03:45	08/03/17 09:11	1
PCB-1248	**0.40**		0.019	0.0093	mg/Kg	☼	08/01/17 03:45	08/03/17 09:11	1
PCB-1254	**0.19**		0.019	0.0085	mg/Kg	☼	08/01/17 03:45	08/03/17 09:11	1
PCB-1260	**0.041**		0.019	0.013	mg/Kg	☼	08/01/17 03:45	08/03/17 09:11	1
PCB-1262	ND		0.019	0.014	mg/Kg	☼	08/01/17 03:45	08/03/17 09:11	1
PCB-1268	ND		0.019	0.0059	mg/Kg	☼	08/01/17 03:45	08/03/17 09:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*74*		*23 - 150*	*08/01/17 03:45*	*08/03/17 09:11*	*1*
DCB Decachlorobiphenyl (Surr)	*74*		*23 - 150*	*08/01/17 03:45*	*08/03/17 09:11*	*1*
Tetrachloro-m-xylene (Surr)	*74*		*27 - 138*	*08/01/17 03:45*	*08/03/17 09:11*	*1*
Tetrachloro-m-xylene (Surr)	*64*		*27 - 138*	*08/01/17 03:45*	*08/03/17 09:11*	*1*

Client Sample ID: WB6-7, S3, C 072617 — Lab Sample ID: 180-68622-3

Date Collected: 07/26/17 13:50 — **Matrix: Solid**
Date Received: 07/27/17 08:00 — **Percent Solids: 84.9**

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.8		1.2	0.55	mg/Kg	☼	07/28/17 10:54	07/31/17 14:11	1
Barium	100		25	6.7	mg/Kg	☼	07/28/17 10:54	07/31/17 14:11	1
Beryllium	0.34	J	0.50	0.13	mg/Kg	☼	07/28/17 10:54	07/31/17 14:11	1
Cadmium	0.20	J	0.62	0.14	mg/Kg	☼	07/28/17 10:54	07/31/17 14:11	1
Chromium	11		0.62	0.16	mg/Kg	☼	07/28/17 10:54	07/31/17 14:11	1
Copper	49		3.1	0.95	mg/Kg	☼	07/28/17 10:54	07/31/17 14:11	1
Lead	64		1.2	0.41	mg/Kg	☼	07/28/17 10:54	07/31/17 14:11	1
Manganese	390		1.9	0.50	mg/Kg	☼	07/28/17 10:54	07/31/17 14:11	1
Nickel	24		5.0	1.1	mg/Kg	☼	07/28/17 10:54	07/31/17 14:11	1
Selenium	ND	^	1.2	0.49	mg/Kg	☼	07/28/17 10:54	07/31/17 14:11	1
Silver	ND		0.62	0.21	mg/Kg	☼	07/28/17 10:54	07/31/17 14:11	1
Zinc	68		2.5	1.3	mg/Kg	☼	07/28/17 10:54	07/31/17 14:11	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.035	J F1	0.042	0.0093	mg/Kg	☼	07/31/17 08:10	07/31/17 13:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	15.1		0.1	0.1	%			07/28/17 11:41	1
Percent Solids	84.9		0.1	0.1	%			07/28/17 11:41	1
Cyanide, Total	0.37	J	0.58	0.18	mg/Kg	☼	08/02/17 13:35	08/03/17 11:14	1

Client Sample ID: WB6-7, S4, A 072617 — Lab Sample ID: 180-68622-4

Date Collected: 07/26/17 15:00 — **Matrix: Solid**
Date Received: 07/27/17 08:00 — **Percent Solids: 87.4**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0026	J	0.016	0.0025	mg/Kg	☼	07/28/17 05:40	07/28/17 13:45	1
Benzene	ND		0.0040	0.0016	mg/Kg	☼	07/28/17 05:40	07/28/17 13:45	1
2-Butanone (MEK)	ND		0.0040	0.0023	mg/Kg	☼	07/28/17 05:40	07/28/17 13:45	1
Carbon tetrachloride	ND		0.0040	0.0027	mg/Kg	☼	07/28/17 05:40	07/28/17 13:45	1
Chlorobenzene	ND		0.0040	0.0013	mg/Kg	☼	07/28/17 05:40	07/28/17 13:45	1
Chloroform	ND		0.0040	0.0017	mg/Kg	☼	07/28/17 05:40	07/28/17 13:45	1
cis-1,2-Dichloroethene	ND		0.0040	0.0013	mg/Kg	☼	07/28/17 05:40	07/28/17 13:45	1
1,2-Dichlorobenzene	ND		0.0040	0.0032	mg/Kg	☼	07/28/17 05:40	07/28/17 13:45	1
1,3-Dichlorobenzene	ND		0.0040	0.0013	mg/Kg	☼	07/28/17 05:40	07/28/17 13:45	1
1,4-Dichlorobenzene	ND		0.0040	0.00082	mg/Kg	☼	07/28/17 05:40	07/28/17 13:45	1
1,1-Dichloroethane	ND		0.0040	0.0015	mg/Kg	☼	07/28/17 05:40	07/28/17 13:45	1
1,2-Dichloroethane	ND		0.0040	0.0012	mg/Kg	☼	07/28/17 05:40	07/28/17 13:45	1
1,1-Dichloroethene	ND		0.0040	0.0023	mg/Kg	☼	07/28/17 05:40	07/28/17 13:45	1
Ethylbenzene	ND		0.0040	0.0017	mg/Kg	☼	07/28/17 05:40	07/28/17 13:45	1
Methylene Chloride	ND		0.0040	0.0019	mg/Kg	☼	07/28/17 05:40	07/28/17 13:45	1
Methyl tert-butyl ether	ND		0.0040	0.0030	mg/Kg	☼	07/28/17 05:40	07/28/17 13:45	1
n-Butylbenzene	ND		0.0040	0.0030	mg/Kg	☼	07/28/17 05:40	07/28/17 13:45	1
N-Propylbenzene	ND		0.0040	0.0017	mg/Kg	☼	07/28/17 05:40	07/28/17 13:45	1
sec-Butylbenzene	ND		0.0040	0.0020	mg/Kg	☼	07/28/17 05:40	07/28/17 13:45	1
tert-Butylbenzene	ND		0.0040	0.0015	mg/Kg	☼	07/28/17 05:40	07/28/17 13:45	1
Tetrachloroethene	ND		0.0040	0.0016	mg/Kg	☼	07/28/17 05:40	07/28/17 13:45	1

Client Sample ID: WB6-7, S4, A 072617 — Lab Sample ID: 180-68622-4

Date Collected: 07/26/17 15:00 — Matrix: Solid
Date Received: 07/27/17 08:00 — Percent Solids: 87.4

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		0.0040	0.0014	mg/Kg	☼	07/28/17 05:40	07/28/17 13:45	1
trans-1,2-Dichloroethene	ND		0.0040	0.0020	mg/Kg	☼	07/28/17 05:40	07/28/17 13:45	1
1,1,1-Trichloroethane	ND		0.0040	0.0020	mg/Kg	☼	07/28/17 05:40	07/28/17 13:45	1
Trichloroethene	**0.0014**	**J**	0.0040	0.0012	mg/Kg	☼	07/28/17 05:40	07/28/17 13:45	1
1,2,4-Trimethylbenzene	ND		0.0040	0.0011	mg/Kg	☼	07/28/17 05:40	07/28/17 13:45	1
1,3,5-Trimethylbenzene	ND		0.0040	0.0014	mg/Kg	☼	07/28/17 05:40	07/28/17 13:45	1
Vinyl chloride	ND		0.0040	0.0030	mg/Kg	☼	07/28/17 05:40	07/28/17 13:45	1
Xylenes, Total	ND		0.0080	0.0035	mg/Kg	☼	07/28/17 05:40	07/28/17 13:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*63 - 120*	*07/28/17 05:40*	*07/28/17 13:45*	*1*
Dibromofluoromethane (Surr)	*104*		*68 - 121*	*07/28/17 05:40*	*07/28/17 13:45*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*52 - 124*	*07/28/17 05:40*	*07/28/17 13:45*	*1*
Toluene-d8 (Surr)	*113*		*72 - 127*	*07/28/17 05:40*	*07/28/17 13:45*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**12.6**		0.1	0.1	%			07/28/17 11:41	1
Percent Solids	**87.4**		0.1	0.1	%			07/28/17 11:41	1

Client Sample ID: WB6-7, S4, B 072617 — Lab Sample ID: 180-68622-5

Date Collected: 07/26/17 15:05 — Matrix: Solid
Date Received: 07/27/17 08:00 — Percent Solids: 89.4

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**0.0028**	**J**	0.016	0.0026	mg/Kg	☼	07/28/17 05:40	07/28/17 14:08	1
Benzene	ND		0.0041	0.0016	mg/Kg	☼	07/28/17 05:40	07/28/17 14:08	1
2-Butanone (MEK)	ND		0.0041	0.0024	mg/Kg	☼	07/28/17 05:40	07/28/17 14:08	1
Carbon tetrachloride	ND		0.0041	0.0027	mg/Kg	☼	07/28/17 05:40	07/28/17 14:08	1
Chlorobenzene	ND		0.0041	0.0013	mg/Kg	☼	07/28/17 05:40	07/28/17 14:08	1
Chloroform	ND		0.0041	0.0017	mg/Kg	☼	07/28/17 05:40	07/28/17 14:08	1
cis-1,2-Dichloroethene	ND		0.0041	0.0013	mg/Kg	☼	07/28/17 05:40	07/28/17 14:08	1
1,2-Dichlorobenzene	ND		0.0041	0.0033	mg/Kg	☼	07/28/17 05:40	07/28/17 14:08	1
1,3-Dichlorobenzene	ND		0.0041	0.0013	mg/Kg	☼	07/28/17 05:40	07/28/17 14:08	1
1,4-Dichlorobenzene	ND		0.0041	0.00083	mg/Kg	☼	07/28/17 05:40	07/28/17 14:08	1
1,1-Dichloroethane	ND		0.0041	0.0015	mg/Kg	☼	07/28/17 05:40	07/28/17 14:08	1
1,2-Dichloroethane	ND		0.0041	0.0012	mg/Kg	☼	07/28/17 05:40	07/28/17 14:08	1
1,1-Dichloroethene	ND		0.0041	0.0023	mg/Kg	☼	07/28/17 05:40	07/28/17 14:08	1
Ethylbenzene	ND		0.0041	0.0018	mg/Kg	☼	07/28/17 05:40	07/28/17 14:08	1
Methylene Chloride	ND		0.0041	0.0019	mg/Kg	☼	07/28/17 05:40	07/28/17 14:08	1
Methyl tert-butyl ether	ND		0.0041	0.0030	mg/Kg	☼	07/28/17 05:40	07/28/17 14:08	1
n-Butylbenzene	ND		0.0041	0.0031	mg/Kg	☼	07/28/17 05:40	07/28/17 14:08	1
N-Propylbenzene	ND		0.0041	0.0017	mg/Kg	☼	07/28/17 05:40	07/28/17 14:08	1
sec-Butylbenzene	ND		0.0041	0.0020	mg/Kg	☼	07/28/17 05:40	07/28/17 14:08	1
tert-Butylbenzene	ND		0.0041	0.0015	mg/Kg	☼	07/28/17 05:40	07/28/17 14:08	1
Tetrachloroethene	ND		0.0041	0.0016	mg/Kg	☼	07/28/17 05:40	07/28/17 14:08	1
Toluene	ND		0.0041	0.0014	mg/Kg	☼	07/28/17 05:40	07/28/17 14:08	1
trans-1,2-Dichloroethene	ND		0.0041	0.0021	mg/Kg	☼	07/28/17 05:40	07/28/17 14:08	1
1,1,1-Trichloroethane	ND		0.0041	0.0021	mg/Kg	☼	07/28/17 05:40	07/28/17 14:08	1

Client Sample ID: WB6-7, S4, B 072617

Lab Sample ID: 180-68622-5
Date Collected: 07/26/17 15:05
Matrix: Solid
Date Received: 07/27/17 08:00
Percent Solids: 89.4

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	ND		0.0041	0.0012	mg/Kg	☼	07/28/17 05:40	07/28/17 14:08	1
1,2,4-Trimethylbenzene	ND		0.0041	0.0011	mg/Kg	☼	07/28/17 05:40	07/28/17 14:08	1
1,3,5-Trimethylbenzene	ND		0.0041	0.0014	mg/Kg	☼	07/28/17 05:40	07/28/17 14:08	1
Vinyl chloride	ND		0.0041	0.0030	mg/Kg	☼	07/28/17 05:40	07/28/17 14:08	1
Xylenes, Total	ND		0.0082	0.0035	mg/Kg	☼	07/28/17 05:40	07/28/17 14:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*63 - 120*	*07/28/17 05:40*	*07/28/17 14:08*	*1*
Dibromofluoromethane (Surr)	*103*		*68 - 121*	*07/28/17 05:40*	*07/28/17 14:08*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*52 - 124*	*07/28/17 05:40*	*07/28/17 14:08*	*1*
Toluene-d8 (Surr)	*113*		*72 - 127*	*07/28/17 05:40*	*07/28/17 14:08*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**10.6**		0.1	0.1	%			07/28/17 11:41	1
Percent Solids	**89.4**		0.1	0.1	%			07/28/17 11:41	1

Client Sample ID: WB6-7, S4, C 072617

Lab Sample ID: 180-68622-6
Date Collected: 07/26/17 15:10
Matrix: Solid
Date Received: 07/27/17 08:00
Percent Solids: 86.5

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.026**		0.0076	0.0025	mg/Kg	☼	08/01/17 03:39	08/01/17 17:52	1
Acenaphthylene	**0.032**		0.0076	0.0026	mg/Kg	☼	08/01/17 03:39	08/01/17 17:52	1
Anthracene	**0.10**		0.0076	0.0028	mg/Kg	☼	08/01/17 03:39	08/01/17 17:52	1
Benzo[a]anthracene	**0.22**		0.0076	0.0030	mg/Kg	☼	08/01/17 03:39	08/01/17 17:52	1
Benzo[a]pyrene	**0.20**		0.0076	0.0031	mg/Kg	☼	08/01/17 03:39	08/01/17 17:52	1
Benzo[b]fluoranthene	**0.23**		0.0076	0.0033	mg/Kg	☼	08/01/17 03:39	08/01/17 17:52	1
Benzo[g,h,i]perylene	**0.22**		0.0076	0.0033	mg/Kg	☼	08/01/17 03:39	08/01/17 17:52	1
Benzo[k]fluoranthene	**0.12**		0.0076	0.0026	mg/Kg	☼	08/01/17 03:39	08/01/17 17:52	1
Chrysene	**0.24**		0.0076	0.0030	mg/Kg	☼	08/01/17 03:39	08/01/17 17:52	1
Dibenz(a,h)anthracene	**0.050**		0.0076	0.0031	mg/Kg	☼	08/01/17 03:39	08/01/17 17:52	1
Dibenzofuran	**0.048**		0.037	0.0030	mg/Kg	☼	08/01/17 03:39	08/01/17 17:52	1
1,4-Dioxane	ND		0.076	0.0057	mg/Kg	☼	08/01/17 03:39	08/01/17 17:52	1
Fluoranthene	**0.48**		0.0076	0.0030	mg/Kg	☼	08/01/17 03:39	08/01/17 17:52	1
Fluorene	**0.043**		0.0076	0.0027	mg/Kg	☼	08/01/17 03:39	08/01/17 17:52	1
Hexachlorobenzene	ND		0.0076	0.0030	mg/Kg	☼	08/01/17 03:39	08/01/17 17:52	1
Indeno[1,2,3-cd]pyrene	**0.18**		0.0076	0.0029	mg/Kg	☼	08/01/17 03:39	08/01/17 17:52	1
2-Methylphenol	ND		0.037	0.0033	mg/Kg	☼	08/01/17 03:39	08/01/17 17:52	1
Methylphenol, 3 & 4	**0.0062**	**J**	0.037	0.0033	mg/Kg	☼	08/01/17 03:39	08/01/17 17:52	1
Naphthalene	**0.040**		0.0076	0.0027	mg/Kg	☼	08/01/17 03:39	08/01/17 17:52	1
Pentachlorophenol	ND		0.19	0.071	mg/Kg	☼	08/01/17 03:39	08/01/17 17:52	1
Phenanthrene	**0.25**		0.0076	0.0032	mg/Kg	☼	08/01/17 03:39	08/01/17 17:52	1
Phenol	ND		0.037	0.0051	mg/Kg	☼	08/01/17 03:39	08/01/17 17:52	1
Pyrene	**0.38**		0.0076	0.0034	mg/Kg	☼	08/01/17 03:39	08/01/17 17:52	1
Hexachloroethane	ND		37	2.7	ug/Kg	☼	08/01/17 03:39	08/01/17 17:52	1
Nitrobenzene	ND		76	2.9	ug/Kg	☼	08/01/17 03:39	08/01/17 17:52	1
Hexachlorobutadiene	ND		7.6	2.4	ug/Kg	☼	08/01/17 03:39	08/01/17 17:52	1
2,4,5-Trichlorophenol	ND		37	3.6	ug/Kg	☼	08/01/17 03:39	08/01/17 17:52	1

Client Sample ID: WB6-7, S4, C 072617 **Lab Sample ID: 180-68622-6**
Date Collected: 07/26/17 15:10 **Matrix: Solid**
Date Received: 07/27/17 08:00 **Percent Solids: 86.5**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,6-Trichlorophenol	ND		37	3.3	ug/Kg	☼	08/01/17 03:39	08/01/17 17:52	1
2,4-Dinitrotoluene	ND		37	5.0	ug/Kg	☼	08/01/17 03:39	08/01/17 17:52	1
Pyridine	ND		37	3.6	ug/Kg	☼	08/01/17 03:39	08/01/17 17:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*67*		*42 - 100*	*08/01/17 03:39*	*08/01/17 17:52*	*1*
2-Fluorophenol (Surr)	*60*		*21 - 107*	*08/01/17 03:39*	*08/01/17 17:52*	*1*
Nitrobenzene-d5 (Surr)	*58*		*35 - 109*	*08/01/17 03:39*	*08/01/17 17:52*	*1*
Phenol-d5 (Surr)	*60*		*29 - 105*	*08/01/17 03:39*	*08/01/17 17:52*	*1*
Terphenyl-d14 (Surr)	*66*		*36 - 113*	*08/01/17 03:39*	*08/01/17 17:52*	*1*
2,4,6-Tribromophenol (Surr)	*88*		*20 - 134*	*08/01/17 03:39*	*08/01/17 17:52*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.019	0.010	mg/Kg	☼	08/01/17 03:45	08/03/17 09:31	1
PCB-1221	ND		0.019	0.0098	mg/Kg	☼	08/01/17 03:45	08/03/17 09:31	1
PCB-1232	ND		0.019	0.0075	mg/Kg	☼	08/01/17 03:45	08/03/17 09:31	1
PCB-1242	ND		0.019	0.015	mg/Kg	☼	08/01/17 03:45	08/03/17 09:31	1
PCB-1248	**0.76**		0.019	0.0090	mg/Kg	☼	08/01/17 03:45	08/03/17 09:31	1
PCB-1254	**0.34**		0.019	0.0083	mg/Kg	☼	08/01/17 03:45	08/03/17 09:31	1
PCB-1260	**0.068**		0.019	0.013	mg/Kg	☼	08/01/17 03:45	08/03/17 09:31	1
PCB-1262	ND		0.019	0.014	mg/Kg	☼	08/01/17 03:45	08/03/17 09:31	1
PCB-1268	ND		0.019	0.0058	mg/Kg	☼	08/01/17 03:45	08/03/17 09:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*53*		*23 - 150*	*08/01/17 03:45*	*08/03/17 09:31*	*1*
DCB Decachlorobiphenyl (Surr)	*54*		*23 - 150*	*08/01/17 03:45*	*08/03/17 09:31*	*1*
Tetrachloro-m-xylene (Surr)	*48*		*27 - 138*	*08/01/17 03:45*	*08/03/17 09:31*	*1*
Tetrachloro-m-xylene (Surr)	*41*		*27 - 138*	*08/01/17 03:45*	*08/03/17 09:31*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**7.2**		1.1	0.48	mg/Kg	☼	07/28/17 10:54	07/31/17 14:16	1
Barium	**160**		22	5.8	mg/Kg	☼	07/28/17 10:54	07/31/17 14:16	1
Beryllium	**0.35**	**J**	0.43	0.11	mg/Kg	☼	07/28/17 10:54	07/31/17 14:16	1
Cadmium	**0.19**	**J**	0.54	0.12	mg/Kg	☼	07/28/17 10:54	07/31/17 14:16	1
Chromium	**15**		0.54	0.14	mg/Kg	☼	07/28/17 10:54	07/31/17 14:16	1
Copper	**120**		2.7	0.83	mg/Kg	☼	07/28/17 10:54	07/31/17 14:16	1
Lead	**110**		1.1	0.35	mg/Kg	☼	07/28/17 10:54	07/31/17 14:16	1
Manganese	**390**		1.6	0.44	mg/Kg	☼	07/28/17 10:54	07/31/17 14:16	1
Nickel	**46**		4.3	0.97	mg/Kg	☼	07/28/17 10:54	07/31/17 14:16	1
Selenium	**0.88**	**J ^**	1.1	0.43	mg/Kg	☼	07/28/17 10:54	07/31/17 14:16	1
Silver	ND		0.54	0.18	mg/Kg	☼	07/28/17 10:54	07/31/17 14:16	1
Zinc	**90**		2.2	1.1	mg/Kg	☼	07/28/17 10:54	07/31/17 14:16	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.058**		0.039	0.0088	mg/Kg	☼	07/31/17 08:10	07/31/17 13:45	1

Client Sample ID: WB6-7, S4, C 072617 — Lab Sample ID: 180-68622-6

Date Collected: 07/26/17 15:10 — **Matrix: Solid**
Date Received: 07/27/17 08:00 — **Percent Solids: 86.5**

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	13.5		0.1	0.1	%			07/28/17 11:41	1
Percent Solids	86.5		0.1	0.1	%			07/28/17 11:41	1
Cyanide, Total	0.48	J	0.56	0.17	mg/Kg	☼	08/02/17 13:35	08/03/17 11:19	1

Client Sample ID: TRIP BLANK#1 — Lab Sample ID: 180-68622-9

Date Collected: 07/26/17 00:00 — **Matrix: Water**
Date Received: 07/27/17 08:00

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	3.8	J	5.0	3.1	ug/L			07/31/17 09:12	1
Benzene	ND		1.0	0.18	ug/L			07/31/17 09:12	1
2-Butanone (MEK)	ND		5.0	2.6	ug/L			07/31/17 09:12	1
Carbon tetrachloride	ND		1.0	0.56	ug/L			07/31/17 09:12	1
Chlorobenzene	ND		1.0	0.15	ug/L			07/31/17 09:12	1
Chloroform	ND		1.0	0.27	ug/L			07/31/17 09:12	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			07/31/17 09:12	1
1,2-Dichlorobenzene	ND		1.0	0.23	ug/L			07/31/17 09:12	1
1,3-Dichlorobenzene	ND		1.0	0.21	ug/L			07/31/17 09:12	1
1,4-Dichlorobenzene	ND		1.0	0.24	ug/L			07/31/17 09:12	1
1,1-Dichloroethane	ND		1.0	0.34	ug/L			07/31/17 09:12	1
1,2-Dichloroethane	ND		1.0	0.24	ug/L			07/31/17 09:12	1
1,1-Dichloroethene	ND		1.0	0.32	ug/L			07/31/17 09:12	1
Ethylbenzene	ND		1.0	0.25	ug/L			07/31/17 09:12	1
Methylene Chloride	ND		1.0	0.94	ug/L			07/31/17 09:12	1
Methyl tert-butyl ether	ND		1.0	0.20	ug/L			07/31/17 09:12	1
n-Butylbenzene	ND		1.0	0.22	ug/L			07/31/17 09:12	1
N-Propylbenzene	ND		1.0	0.20	ug/L			07/31/17 09:12	1
sec-Butylbenzene	ND		1.0	0.22	ug/L			07/31/17 09:12	1
tert-Butylbenzene	ND		1.0	0.17	ug/L			07/31/17 09:12	1
Tetrachloroethene	ND		1.0	0.24	ug/L			07/31/17 09:12	1
Toluene	ND		1.0	0.16	ug/L			07/31/17 09:12	1
trans-1,2-Dichloroethene	ND		1.0	0.20	ug/L			07/31/17 09:12	1
1,1,1-Trichloroethane	ND		1.0	0.27	ug/L			07/31/17 09:12	1
Trichloroethene	ND		1.0	0.20	ug/L			07/31/17 09:12	1
1,2,4-Trimethylbenzene	ND		1.0	0.18	ug/L			07/31/17 09:12	1
1,3,5-Trimethylbenzene	ND		1.0	0.17	ug/L			07/31/17 09:12	1
Vinyl chloride	ND		1.0	0.17	ug/L			07/31/17 09:12	1
Xylenes, Total	ND		2.0	0.27	ug/L			07/31/17 09:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*72 - 120*		*07/31/17 09:12*	*1*
Dibromofluoromethane (Surr)	*93*		*77 - 127*		*07/31/17 09:12*	*1*
1,2-Dichloroethane-d4 (Surr)	*85*		*72 - 134*		*07/31/17 09:12*	*1*
Toluene-d8 (Surr)	*93*		*80 - 120*		*07/31/17 09:12*	*1*

Method: 8260C - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 180-218548/5
Matrix: Water
Analysis Batch: 218548

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		5.0	3.1	ug/L			07/31/17 02:23	1
Benzene	ND		1.0	0.18	ug/L			07/31/17 02:23	1
2-Butanone (MEK)	ND		5.0	2.6	ug/L			07/31/17 02:23	1
Carbon tetrachloride	ND		1.0	0.56	ug/L			07/31/17 02:23	1
Chlorobenzene	ND		1.0	0.15	ug/L			07/31/17 02:23	1
Chloroform	ND		1.0	0.27	ug/L			07/31/17 02:23	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			07/31/17 02:23	1
1,2-Dichlorobenzene	ND		1.0	0.23	ug/L			07/31/17 02:23	1
1,3-Dichlorobenzene	ND		1.0	0.21	ug/L			07/31/17 02:23	1
1,4-Dichlorobenzene	ND		1.0	0.24	ug/L			07/31/17 02:23	1
1,1-Dichloroethane	ND		1.0	0.34	ug/L			07/31/17 02:23	1
1,2-Dichloroethane	ND		1.0	0.24	ug/L			07/31/17 02:23	1
1,1-Dichloroethene	ND		1.0	0.32	ug/L			07/31/17 02:23	1
Ethylbenzene	ND		1.0	0.25	ug/L			07/31/17 02:23	1
Methylene Chloride	ND		1.0	0.94	ug/L			07/31/17 02:23	1
Methyl tert-butyl ether	ND		1.0	0.20	ug/L			07/31/17 02:23	1
n-Butylbenzene	ND		1.0	0.22	ug/L			07/31/17 02:23	1
N-Propylbenzene	ND		1.0	0.20	ug/L			07/31/17 02:23	1
sec-Butylbenzene	ND		1.0	0.22	ug/L			07/31/17 02:23	1
tert-Butylbenzene	ND		1.0	0.17	ug/L			07/31/17 02:23	1
Tetrachloroethene	ND		1.0	0.24	ug/L			07/31/17 02:23	1
Toluene	ND		1.0	0.16	ug/L			07/31/17 02:23	1
trans-1,2-Dichloroethene	ND		1.0	0.20	ug/L			07/31/17 02:23	1
1,1,1-Trichloroethane	ND		1.0	0.27	ug/L			07/31/17 02:23	1
Trichloroethene	ND		1.0	0.20	ug/L			07/31/17 02:23	1
1,2,4-Trimethylbenzene	ND		1.0	0.18	ug/L			07/31/17 02:23	1
1,3,5-Trimethylbenzene	ND		1.0	0.17	ug/L			07/31/17 02:23	1
Vinyl chloride	ND		1.0	0.17	ug/L			07/31/17 02:23	1
Xylenes, Total	ND		2.0	0.27	ug/L			07/31/17 02:23	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*72 - 120*		*07/31/17 02:23*	*1*
Dibromofluoromethane (Surr)	*86*		*77 - 127*		*07/31/17 02:23*	*1*
1,2-Dichloroethane-d4 (Surr)	*86*		*72 - 134*		*07/31/17 02:23*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*		*07/31/17 02:23*	*1*

Lab Sample ID: LCS 180-218548/3
Matrix: Water
Analysis Batch: 218548

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	20.0	14.6		ug/L		73	10 - 150
Benzene	10.0	9.82		ug/L		98	80 - 121
2-Butanone (MEK)	20.0	17.3		ug/L		87	41 - 150
Carbon tetrachloride	10.0	12.2		ug/L		122	59 - 145
Chlorobenzene	10.0	10.9		ug/L		109	80 - 120
Chloroform	10.0	9.65		ug/L		96	78 - 122
cis-1,2-Dichloroethene	10.0	9.47		ug/L		95	80 - 120

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 180-218548/3
Matrix: Water
Analysis Batch: 218548

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichlorobenzene	10.0	9.60		ug/L		96	80 - 120
1,3-Dichlorobenzene	10.0	9.83		ug/L		98	80 - 120
1,4-Dichlorobenzene	10.0	9.98		ug/L		100	80 - 120
1,1-Dichloroethane	10.0	10.7		ug/L		107	76 - 126
1,2-Dichloroethane	10.0	9.55		ug/L		96	72 - 126
1,1-Dichloroethene	10.0	10.7		ug/L		107	71 - 122
Ethylbenzene	10.0	10.7		ug/L		107	80 - 123
Methylene Chloride	10.0	9.12		ug/L		91	71 - 129
Methyl tert-butyl ether	10.0	9.15		ug/L		92	68 - 124
n-Butylbenzene	10.0	9.88		ug/L		99	75 - 120
N-Propylbenzene	10.0	10.9		ug/L		109	78 - 121
sec-Butylbenzene	10.0	10.7		ug/L		107	80 - 121
tert-Butylbenzene	10.0	11.0		ug/L		110	79 - 120
Tetrachloroethene	10.0	10.8		ug/L		108	80 - 122
Toluene	10.0	10.7		ug/L		107	80 - 125
trans-1,2-Dichloroethene	10.0	10.2		ug/L		102	80 - 121
1,1,1-Trichloroethane	10.0	10.4		ug/L		104	57 - 128
Trichloroethene	10.0	11.1		ug/L		111	79 - 120
1,2,4-Trimethylbenzene	10.0	10.1		ug/L		101	80 - 120
1,3,5-Trimethylbenzene	10.0	10.3		ug/L		103	80 - 122
Vinyl chloride	10.0	8.95		ug/L		90	61 - 138
Xylenes, Total	20.0	21.2		ug/L		106	80 - 123

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*72 - 120*
Dibromofluoromethane (Surr)	*95*		*77 - 127*
1,2-Dichloroethane-d4 (Surr)	*90*		*72 - 134*
Toluene-d8 (Surr)	*106*		*80 - 120*

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 180-218353/9
Matrix: Solid
Analysis Batch: 218353

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.020	0.0032	mg/Kg			07/28/17 09:13	1
Benzene	ND		0.0050	0.0020	mg/Kg			07/28/17 09:13	1
2-Butanone (MEK)	ND		0.0050	0.0029	mg/Kg			07/28/17 09:13	1
Carbon tetrachloride	ND		0.0050	0.0033	mg/Kg			07/28/17 09:13	1
Chlorobenzene	ND		0.0050	0.0016	mg/Kg			07/28/17 09:13	1
Chloroform	ND		0.0050	0.0021	mg/Kg			07/28/17 09:13	1
cis-1,2-Dichloroethene	ND		0.0050	0.0016	mg/Kg			07/28/17 09:13	1
1,2-Dichlorobenzene	ND		0.0050	0.0040	mg/Kg			07/28/17 09:13	1
1,3-Dichlorobenzene	ND		0.0050	0.0016	mg/Kg			07/28/17 09:13	1
1,4-Dichlorobenzene	ND		0.0050	0.0010	mg/Kg			07/28/17 09:13	1
1,1-Dichloroethane	ND		0.0050	0.0018	mg/Kg			07/28/17 09:13	1
1,2-Dichloroethane	ND		0.0050	0.0015	mg/Kg			07/28/17 09:13	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 180-218353/9
Matrix: Solid
Analysis Batch: 218353

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		0.0050	0.0029	mg/Kg			07/28/17 09:13	1
Ethylbenzene	ND		0.0050	0.0022	mg/Kg			07/28/17 09:13	1
Methylene Chloride	ND		0.0050	0.0024	mg/Kg			07/28/17 09:13	1
Methyl tert-butyl ether	ND		0.0050	0.0037	mg/Kg			07/28/17 09:13	1
n-Butylbenzene	ND		0.0050	0.0038	mg/Kg			07/28/17 09:13	1
N-Propylbenzene	ND		0.0050	0.0021	mg/Kg			07/28/17 09:13	1
sec-Butylbenzene	ND		0.0050	0.0024	mg/Kg			07/28/17 09:13	1
tert-Butylbenzene	ND		0.0050	0.0018	mg/Kg			07/28/17 09:13	1
Tetrachloroethene	ND		0.0050	0.0020	mg/Kg			07/28/17 09:13	1
Toluene	ND		0.0050	0.0017	mg/Kg			07/28/17 09:13	1
trans-1,2-Dichloroethene	ND		0.0050	0.0025	mg/Kg			07/28/17 09:13	1
1,1,1-Trichloroethane	ND		0.0050	0.0025	mg/Kg			07/28/17 09:13	1
Trichloroethene	ND		0.0050	0.0015	mg/Kg			07/28/17 09:13	1
1,2,4-Trimethylbenzene	ND		0.0050	0.0013	mg/Kg			07/28/17 09:13	1
1,3,5-Trimethylbenzene	ND		0.0050	0.0017	mg/Kg			07/28/17 09:13	1
Vinyl chloride	ND		0.0050	0.0037	mg/Kg			07/28/17 09:13	1
Xylenes, Total	ND		0.010	0.0043	mg/Kg			07/28/17 09:13	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*63 - 120*		*07/28/17 09:13*	*1*
Dibromofluoromethane (Surr)	*104*		*68 - 121*		*07/28/17 09:13*	*1*
1,2-Dichloroethane-d4 (Surr)	*118*		*52 - 124*		*07/28/17 09:13*	*1*
Toluene-d8 (Surr)	*107*		*72 - 127*		*07/28/17 09:13*	*1*

Lab Sample ID: LCS 180-218353/4
Matrix: Solid
Analysis Batch: 218353

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0400	0.0409		mg/Kg		102	20 - 150
Benzene	0.0400	0.0403		mg/Kg		101	77 - 120
2-Butanone (MEK)	0.0400	0.0399		mg/Kg		100	35 - 149
Carbon tetrachloride	0.0400	0.0443		mg/Kg		111	69 - 122
Chlorobenzene	0.0400	0.0409		mg/Kg		102	79 - 120
Chloroform	0.0400	0.0422		mg/Kg		106	72 - 120
cis-1,2-Dichloroethene	0.0400	0.0404		mg/Kg		101	80 - 118
1,2-Dichlorobenzene	0.0400	0.0407		mg/Kg		102	71 - 124
1,3-Dichlorobenzene	0.0400	0.0403		mg/Kg		101	75 - 118
1,4-Dichlorobenzene	0.0400	0.0401		mg/Kg		100	77 - 116
1,1-Dichloroethane	0.0400	0.0422		mg/Kg		105	66 - 124
1,2-Dichloroethane	0.0400	0.0445		mg/Kg		111	61 - 127
1,1-Dichloroethene	0.0400	0.0393		mg/Kg		98	59 - 129
Ethylbenzene	0.0400	0.0412		mg/Kg		103	78 - 125
Methylene Chloride	0.0400	0.0399		mg/Kg		100	58 - 127
Methyl tert-butyl ether	0.0400	0.0419		mg/Kg		105	48 - 132
n-Butylbenzene	0.0400	0.0458		mg/Kg		114	59 - 145
N-Propylbenzene	0.0400	0.0425		mg/Kg		106	80 - 120
sec-Butylbenzene	0.0400	0.0441		mg/Kg		110	70 - 130

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 180-218353/4
Matrix: Solid
Analysis Batch: 218353

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
tert-Butylbenzene			0.0400	0.0439		mg/Kg		110	74 - 133		
Tetrachloroethene			0.0400	0.0395		mg/Kg		99	78 - 129		
Toluene			0.0400	0.0412		mg/Kg		103	78 - 124		
trans-1,2-Dichloroethene			0.0400	0.0403		mg/Kg		101	77 - 121		
1,1,1-Trichloroethane			0.0400	0.0443		mg/Kg		111	67 - 126		
Trichloroethene			0.0400	0.0398		mg/Kg		99	76 - 119		
1,2,4-Trimethylbenzene			0.0400	0.0430		mg/Kg		107	80 - 121		
1,3,5-Trimethylbenzene			0.0400	0.0429		mg/Kg		107	68 - 133		
Vinyl chloride			0.0400	0.0315		mg/Kg		79	63 - 124		
Xylenes, Total			0.0800	0.0811		mg/Kg		101	83 - 126		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*63 - 120*
Dibromofluoromethane (Surr)	*104*		*68 - 121*
1,2-Dichloroethane-d4 (Surr)	*108*		*52 - 124*
Toluene-d8 (Surr)	*104*		*72 - 127*

Lab Sample ID: LCSD 180-218353/5
Matrix: Solid
Analysis Batch: 218353

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone			0.0400	0.0405		mg/Kg		101	20 - 150	1	40
Benzene			0.0400	0.0414		mg/Kg		104	77 - 120	3	20
2-Butanone (MEK)			0.0400	0.0395		mg/Kg		99	35 - 149	1	36
Carbon tetrachloride			0.0400	0.0459		mg/Kg		115	69 - 122	3	22
Chlorobenzene			0.0400	0.0424		mg/Kg		106	79 - 120	4	20
Chloroform			0.0400	0.0438		mg/Kg		109	72 - 120	4	25
cis-1,2-Dichloroethene			0.0400	0.0413		mg/Kg		103	80 - 118	2	20
1,2-Dichlorobenzene			0.0400	0.0424		mg/Kg		106	71 - 124	4	22
1,3-Dichlorobenzene			0.0400	0.0420		mg/Kg		105	75 - 118	4	20
1,4-Dichlorobenzene			0.0400	0.0418		mg/Kg		105	77 - 116	4	20
1,1-Dichloroethane			0.0400	0.0436		mg/Kg		109	66 - 124	3	23
1,2-Dichloroethane			0.0400	0.0464		mg/Kg		116	61 - 127	4	23
1,1-Dichloroethene			0.0400	0.0403		mg/Kg		101	59 - 129	2	25
Ethylbenzene			0.0400	0.0425		mg/Kg		106	78 - 125	3	21
Methylene Chloride			0.0400	0.0417		mg/Kg		104	58 - 127	4	28
Methyl tert-butyl ether			0.0400	0.0446		mg/Kg		111	48 - 132	6	36
n-Butylbenzene			0.0400	0.0473		mg/Kg		118	59 - 145	3	24
N-Propylbenzene			0.0400	0.0439		mg/Kg		110	80 - 120	3	20
sec-Butylbenzene			0.0400	0.0457		mg/Kg		114	70 - 130	3	21
tert-Butylbenzene			0.0400	0.0456		mg/Kg		114	74 - 133	4	22
Tetrachloroethene			0.0400	0.0408		mg/Kg		102	78 - 129	3	20
Toluene			0.0400	0.0424		mg/Kg		106	78 - 124	3	21
trans-1,2-Dichloroethene			0.0400	0.0415		mg/Kg		104	77 - 121	3	20
1,1,1-Trichloroethane			0.0400	0.0472		mg/Kg		118	67 - 126	6	31
Trichloroethene			0.0400	0.0411		mg/Kg		103	76 - 119	3	21
1,2,4-Trimethylbenzene			0.0400	0.0445		mg/Kg		111	80 - 121	4	20

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 180-218353/5
Matrix: Solid
Analysis Batch: 218353

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,3,5-Trimethylbenzene			0.0400	0.0447		mg/Kg		112	68 - 133	4	21
Vinyl chloride			0.0400	0.0336		mg/Kg		84	63 - 124	6	27
Xylenes, Total			0.0800	0.0838		mg/Kg		105	83 - 126	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*107*		*63 - 120*
Dibromofluoromethane (Surr)	*107*		*68 - 121*
1,2-Dichloroethane-d4 (Surr)	*114*		*52 - 124*
Toluene-d8 (Surr)	*107*		*72 - 127*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Lab Sample ID: MB 180-218664/1-A
Matrix: Solid
Analysis Batch: 218731

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 218664

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0034	0.0011	mg/Kg		08/01/17 03:39	08/01/17 13:21	1
Acenaphthylene	ND		0.0034	0.0011	mg/Kg		08/01/17 03:39	08/01/17 13:21	1
Anthracene	ND		0.0034	0.0012	mg/Kg		08/01/17 03:39	08/01/17 13:21	1
Benzo[a]anthracene	ND		0.0034	0.0013	mg/Kg		08/01/17 03:39	08/01/17 13:21	1
Benzo[a]pyrene	ND		0.0034	0.0014	mg/Kg		08/01/17 03:39	08/01/17 13:21	1
Benzo[b]fluoranthene	ND		0.0034	0.0014	mg/Kg		08/01/17 03:39	08/01/17 13:21	1
Benzo[g,h,i]perylene	ND		0.0034	0.0014	mg/Kg		08/01/17 03:39	08/01/17 13:21	1
Benzo[k]fluoranthene	ND		0.0034	0.0012	mg/Kg		08/01/17 03:39	08/01/17 13:21	1
Chrysene	ND		0.0034	0.0013	mg/Kg		08/01/17 03:39	08/01/17 13:21	1
Dibenz(a,h)anthracene	ND		0.0034	0.0014	mg/Kg		08/01/17 03:39	08/01/17 13:21	1
Dibenzofuran	ND		0.017	0.0013	mg/Kg		08/01/17 03:39	08/01/17 13:21	1
1,4-Dioxane	ND		0.033	0.0025	mg/Kg		08/01/17 03:39	08/01/17 13:21	1
Fluoranthene	ND		0.0034	0.0013	mg/Kg		08/01/17 03:39	08/01/17 13:21	1
Fluorene	ND		0.0034	0.0012	mg/Kg		08/01/17 03:39	08/01/17 13:21	1
Hexachlorobenzene	ND		0.0034	0.0013	mg/Kg		08/01/17 03:39	08/01/17 13:21	1
Indeno[1,2,3-cd]pyrene	ND		0.0034	0.0013	mg/Kg		08/01/17 03:39	08/01/17 13:21	1
2-Methylphenol	ND		0.017	0.0015	mg/Kg		08/01/17 03:39	08/01/17 13:21	1
Methylphenol, 3 & 4	ND		0.017	0.0015	mg/Kg		08/01/17 03:39	08/01/17 13:21	1
Naphthalene	ND		0.0034	0.0012	mg/Kg		08/01/17 03:39	08/01/17 13:21	1
Pentachlorophenol	ND		0.085	0.032	mg/Kg		08/01/17 03:39	08/01/17 13:21	1
Phenanthrene	ND		0.0034	0.0014	mg/Kg		08/01/17 03:39	08/01/17 13:21	1
Phenol	ND		0.017	0.0023	mg/Kg		08/01/17 03:39	08/01/17 13:21	1
Pyrene	ND		0.0034	0.0015	mg/Kg		08/01/17 03:39	08/01/17 13:21	1
Hexachloroethane	ND		17	1.2	ug/Kg		08/01/17 03:39	08/01/17 13:21	1
Nitrobenzene	ND		33	1.3	ug/Kg		08/01/17 03:39	08/01/17 13:21	1
Hexachlorobutadiene	ND		3.4	1.1	ug/Kg		08/01/17 03:39	08/01/17 13:21	1
2,4,5-Trichlorophenol	ND		17	1.6	ug/Kg		08/01/17 03:39	08/01/17 13:21	1
2,4,6-Trichlorophenol	ND		17	1.5	ug/Kg		08/01/17 03:39	08/01/17 13:21	1
2,4-Dinitrotoluene	ND		17	2.2	ug/Kg		08/01/17 03:39	08/01/17 13:21	1
Pyridine	ND		17	1.6	ug/Kg		08/01/17 03:39	08/01/17 13:21	1

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: MB 180-218664/1-A
Matrix: Solid
Analysis Batch: 218731

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 218664

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	69		42 - 100	08/01/17 03:39	08/01/17 13:21	1
2-Fluorophenol (Surr)	75		21 - 107	08/01/17 03:39	08/01/17 13:21	1
Nitrobenzene-d5 (Surr)	65		35 - 109	08/01/17 03:39	08/01/17 13:21	1
Phenol-d5 (Surr)	67		29 - 105	08/01/17 03:39	08/01/17 13:21	1
Terphenyl-d14 (Surr)	64		36 - 113	08/01/17 03:39	08/01/17 13:21	1
2,4,6-Tribromophenol (Surr)	80		20 - 134	08/01/17 03:39	08/01/17 13:21	1

Lab Sample ID: LCS 180-218664/2-A
Matrix: Solid
Analysis Batch: 218731

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 218664

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	0.333	0.195		mg/Kg		59	39 - 100
Acenaphthylene	0.333	0.207		mg/Kg		62	42 - 100
Anthracene	0.333	0.201		mg/Kg		60	43 - 100
Benzo[a]anthracene	0.333	0.207		mg/Kg		62	43 - 100
Benzo[a]pyrene	0.333	0.217		mg/Kg		65	43 - 100
Benzo[b]fluoranthene	0.333	0.198		mg/Kg		60	40 - 100
Benzo[g,h,i]perylene	0.333	0.231		mg/Kg		69	41 - 102
Benzo[k]fluoranthene	0.333	0.205		mg/Kg		62	44 - 100
Chrysene	0.333	0.215		mg/Kg		64	44 - 100
Dibenz(a,h)anthracene	0.333	0.228		mg/Kg		68	40 - 104
Dibenzofuran	0.333	0.216		mg/Kg		65	42 - 100
1,4-Dioxane	0.333	0.259		mg/Kg		78	19 - 107
Fluoranthene	0.333	0.223		mg/Kg		67	41 - 104
Fluorene	0.333	0.217		mg/Kg		65	41 - 100
Hexachlorobenzene	0.333	0.216		mg/Kg		65	43 - 100
Indeno[1,2,3-cd]pyrene	0.333	0.230		mg/Kg		69	41 - 104
2-Methylphenol	0.333	0.209		mg/Kg		63	38 - 100
Methylphenol, 3 & 4	0.333	0.211		mg/Kg		63	40 - 100
Naphthalene	0.333	0.209		mg/Kg		63	38 - 100
Pentachlorophenol	0.667	0.405		mg/Kg		61	34 - 102
Phenanthrene	0.333	0.197		mg/Kg		59	41 - 100
Phenol	0.333	0.198		mg/Kg		59	36 - 100
Pyrene	0.333	0.198		mg/Kg		59	42 - 100
Hexachloroethane	333	214		ug/Kg		64	35 - 100
Nitrobenzene	333	185		ug/Kg		56	34 - 100
Hexachlorobutadiene	333	259		ug/Kg		78	35 - 100
2,4,5-Trichlorophenol	333	216		ug/Kg		65	42 - 100
2,4,6-Trichlorophenol	333	224		ug/Kg		67	41 - 103
2,4-Dinitrotoluene	333	250		ug/Kg		75	42 - 110
Pyridine	667	545		ug/Kg		82	25 - 119

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	60		42 - 100
2-Fluorophenol (Surr)	72		21 - 107
Nitrobenzene-d5 (Surr)	56		35 - 109

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCS 180-218664/2-A
Matrix: Solid
Analysis Batch: 218731

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 218664

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Phenol-d5 (Surr)	*62*		*29 - 105*
Terphenyl-d14 (Surr)	*63*		*36 - 113*
2,4,6-Tribromophenol (Surr)	*69*		*20 - 134*

Lab Sample ID: 180-68622-3 MS
Matrix: Solid
Analysis Batch: 218731

Client Sample ID: WB6-7, S3, C 072617
Prep Type: Total/NA
Prep Batch: 218664

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	0.027		0.775	0.507		mg/Kg	☼	62	39 - 100
Acenaphthylene	0.040		0.775	0.529		mg/Kg	☼	63	42 - 100
Anthracene	0.082		0.775	0.583		mg/Kg	☼	65	43 - 100
Benzo[a]anthracene	0.27		0.775	0.735		mg/Kg	☼	60	43 - 100
Benzo[a]pyrene	0.27		0.775	0.737		mg/Kg	☼	60	43 - 100
Benzo[b]fluoranthene	0.34		0.775	0.707		mg/Kg	☼	47	40 - 100
Benzo[g,h,i]perylene	0.26		0.775	0.893		mg/Kg	☼	81	41 - 102
Benzo[k]fluoranthene	0.14		0.775	0.621		mg/Kg	☼	62	44 - 100
Chrysene	0.31		0.775	0.764		mg/Kg	☼	59	44 - 100
Dibenz(a,h)anthracene	0.057		0.775	0.713		mg/Kg	☼	85	40 - 104
Dibenzofuran	0.020	J	0.775	0.553		mg/Kg	☼	69	42 - 100
1,4-Dioxane	ND		0.775	0.490		mg/Kg	☼	63	19 - 107
Fluoranthene	0.50		0.775	0.898		mg/Kg	☼	51	41 - 104
Fluorene	0.029		0.775	0.558		mg/Kg	☼	68	41 - 100
Hexachlorobenzene	ND		0.775	0.565		mg/Kg	☼	73	43 - 100
Indeno[1,2,3-cd]pyrene	0.22		0.775	0.829		mg/Kg	☼	79	41 - 104
2-Methylphenol	ND		0.775	0.463		mg/Kg	☼	60	38 - 100
Methylphenol, 3 & 4	ND		0.775	0.506		mg/Kg	☼	65	40 - 100
Naphthalene	0.023		0.775	0.504		mg/Kg	☼	62	38 - 100
Pentachlorophenol	ND		1.55	1.05		mg/Kg	☼	68	34 - 102
Phenanthrene	0.23		0.775	0.667		mg/Kg	☼	56	41 - 100
Phenol	ND		0.775	0.457		mg/Kg	☼	59	36 - 100
Pyrene	0.40		0.775	0.757		mg/Kg	☼	47	42 - 100
Hexachloroethane	ND		775	471		ug/Kg	☼	61	35 - 100
Nitrobenzene	ND		775	427		ug/Kg	☼	55	34 - 100
Hexachlorobutadiene	ND		775	591		ug/Kg	☼	76	35 - 100
2,4,5-Trichlorophenol	ND		775	562		ug/Kg	☼	73	42 - 100
2,4,6-Trichlorophenol	ND		775	542		ug/Kg	☼	70	41 - 103
2,4-Dinitrotoluene	ND		775	628		ug/Kg	☼	81	42 - 110
Pyridine	ND		1550	595		ug/Kg	☼	38	25 - 119

Surrogate	MS %Recovery	MS Qualifier	Limits
2-Fluorobiphenyl	*64*		*42 - 100*
2-Fluorophenol (Surr)	*68*		*21 - 107*
Nitrobenzene-d5 (Surr)	*58*		*35 - 109*
Phenol-d5 (Surr)	*63*		*29 - 105*
Terphenyl-d14 (Surr)	*65*		*36 - 113*
2,4,6-Tribromophenol (Surr)	*85*		*20 - 134*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: 180-68622-3 MSD
Matrix: Solid
Analysis Batch: 218731

Client Sample ID: WB6-7, S3, C 072617
Prep Type: Total/NA
Prep Batch: 218664

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	0.027		0.780	0.517		mg/Kg	☼	63	39 - 100	2	20
Acenaphthylene	0.040		0.780	0.536		mg/Kg	☼	64	42 - 100	1	20
Anthracene	0.082		0.780	0.603		mg/Kg	☼	67	43 - 100	3	20
Benzo[a]anthracene	0.27		0.780	0.748		mg/Kg	☼	61	43 - 100	2	20
Benzo[a]pyrene	0.27		0.780	0.759		mg/Kg	☼	62	43 - 100	3	20
Benzo[b]fluoranthene	0.34		0.780	0.744		mg/Kg	☼	52	40 - 100	5	20
Benzo[g,h,i]perylene	0.26		0.780	0.958		mg/Kg	☼	89	41 - 102	7	20
Benzo[k]fluoranthene	0.14		0.780	0.623		mg/Kg	☼	62	44 - 100	0	20
Chrysene	0.31		0.780	0.833		mg/Kg	☼	67	44 - 100	9	20
Dibenz(a,h)anthracene	0.057		0.780	0.768		mg/Kg	☼	91	40 - 104	7	26
Dibenzofuran	0.020	J	0.780	0.564		mg/Kg	☼	70	42 - 100	2	23
1,4-Dioxane	ND		0.780	0.505		mg/Kg	☼	65	19 - 107	3	20
Fluoranthene	0.50		0.780	0.952		mg/Kg	☼	58	41 - 104	6	20
Fluorene	0.029		0.780	0.566		mg/Kg	☼	69	41 - 100	1	21
Hexachlorobenzene	ND		0.780	0.586		mg/Kg	☼	75	43 - 100	4	21
Indeno[1,2,3-cd]pyrene	0.22		0.780	0.891		mg/Kg	☼	86	41 - 104	7	25
2-Methylphenol	ND		0.780	0.486		mg/Kg	☼	62	38 - 100	5	20
Methylphenol, 3 & 4	ND		0.780	0.510		mg/Kg	☼	65	40 - 100	1	20
Naphthalene	0.023		0.780	0.516		mg/Kg	☼	63	38 - 100	2	20
Pentachlorophenol	ND		1.56	1.10		mg/Kg	☼	71	34 - 102	5	20
Phenanthrene	0.23		0.780	0.693		mg/Kg	☼	59	41 - 100	4	20
Phenol	ND		0.780	0.471		mg/Kg	☼	60	36 - 100	3	20
Pyrene	0.40		0.780	0.781		mg/Kg	☼	49	42 - 100	3	21
Hexachloroethane	ND		780	482		ug/Kg	☼	62	35 - 100	2	20
Nitrobenzene	ND		780	432		ug/Kg	☼	55	34 - 100	1	20
Hexachlorobutadiene	ND		780	611		ug/Kg	☼	78	35 - 100	3	20
2,4,5-Trichlorophenol	ND		780	583		ug/Kg	☼	75	42 - 100	4	22
2,4,6-Trichlorophenol	ND		780	578		ug/Kg	☼	74	41 - 103	6	25
2,4-Dinitrotoluene	ND		780	641		ug/Kg	☼	82	42 - 110	2	21
Pyridine	ND		1560	607		ug/Kg	☼	39	25 - 119	2	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl	*63*		*42 - 100*
2-Fluorophenol (Surr)	*68*		*21 - 107*
Nitrobenzene-d5 (Surr)	*60*		*35 - 109*
Phenol-d5 (Surr)	*65*		*29 - 105*
Terphenyl-d14 (Surr)	*68*		*36 - 113*
2,4,6-Tribromophenol (Surr)	*87*		*20 - 134*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 180-218666/1-A
Matrix: Solid
Analysis Batch: 218951

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 218666

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.017	0.0088	mg/Kg		08/01/17 03:45	08/03/17 08:33	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: MB 180-218666/1-A
Matrix: Solid
Analysis Batch: 218951

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 218666

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1221	ND		0.017	0.0086	mg/Kg		08/01/17 03:45	08/03/17 08:33	1
PCB-1232	ND		0.017	0.0066	mg/Kg		08/01/17 03:45	08/03/17 08:33	1
PCB-1242	ND		0.017	0.013	mg/Kg		08/01/17 03:45	08/03/17 08:33	1
PCB-1248	ND		0.017	0.0080	mg/Kg		08/01/17 03:45	08/03/17 08:33	1
PCB-1254	ND		0.017	0.0073	mg/Kg		08/01/17 03:45	08/03/17 08:33	1
PCB-1260	ND		0.017	0.011	mg/Kg		08/01/17 03:45	08/03/17 08:33	1
PCB-1262	ND		0.017	0.012	mg/Kg		08/01/17 03:45	08/03/17 08:33	1
PCB-1268	ND		0.017	0.0051	mg/Kg		08/01/17 03:45	08/03/17 08:33	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*84*		*23 - 150*	*08/01/17 03:45*	*08/03/17 08:33*	*1*
DCB Decachlorobiphenyl (Surr)	*86*		*23 - 150*	*08/01/17 03:45*	*08/03/17 08:33*	*1*
Tetrachloro-m-xylene (Surr)	*95*		*27 - 138*	*08/01/17 03:45*	*08/03/17 08:33*	*1*
Tetrachloro-m-xylene (Surr)	*87*		*27 - 138*	*08/01/17 03:45*	*08/03/17 08:33*	*1*

Lab Sample ID: LCS 180-218666/2-A
Matrix: Solid
Analysis Batch: 218951

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 218666

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	1.33	1.14		mg/Kg		85	52 - 126
PCB-1260	1.33	1.10		mg/Kg		83	50 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*80*		*23 - 150*
DCB Decachlorobiphenyl (Surr)	*83*		*23 - 150*
Tetrachloro-m-xylene (Surr)	*88*		*27 - 138*
Tetrachloro-m-xylene (Surr)	*81*		*27 - 138*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 180-218412/1-A
Matrix: Solid
Analysis Batch: 218674

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 218412

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		1.0	0.44	mg/Kg		07/28/17 10:54	07/31/17 14:01	1
Barium	ND		20	5.4	mg/Kg		07/28/17 10:54	07/31/17 14:01	1
Beryllium	ND		0.40	0.10	mg/Kg		07/28/17 10:54	07/31/17 14:01	1
Cadmium	ND		0.50	0.11	mg/Kg		07/28/17 10:54	07/31/17 14:01	1
Chromium	ND		0.50	0.13	mg/Kg		07/28/17 10:54	07/31/17 14:01	1
Copper	ND		2.5	0.77	mg/Kg		07/28/17 10:54	07/31/17 14:01	1
Lead	ND		1.0	0.33	mg/Kg		07/28/17 10:54	07/31/17 14:01	1
Manganese	ND		1.5	0.41	mg/Kg		07/28/17 10:54	07/31/17 14:01	1
Nickel	ND		4.0	0.90	mg/Kg		07/28/17 10:54	07/31/17 14:01	1
Selenium	ND	^	1.0	0.40	mg/Kg		07/28/17 10:54	07/31/17 14:01	1
Silver	ND		0.50	0.17	mg/Kg		07/28/17 10:54	07/31/17 14:01	1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: MB 180-218412/1-A
Matrix: Solid
Analysis Batch: 218674

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 218412

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	ND		2.0	1.0	mg/Kg		07/28/17 10:54	07/31/17 14:01	1

Lab Sample ID: LCS 180-218412/2-A
Matrix: Solid
Analysis Batch: 218674

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 218412

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	50.0	51.4		mg/Kg		103	80 - 120
Barium	200	201		mg/Kg		101	80 - 120
Beryllium	5.00	5.12		mg/Kg		102	80 - 120
Cadmium	5.00	5.13		mg/Kg		103	80 - 120
Chromium	20.0	19.7		mg/Kg		98	80 - 120
Copper	25.0	25.3		mg/Kg		101	80 - 120
Lead	50.0	49.7		mg/Kg		99	80 - 120
Manganese	50.0	49.5		mg/Kg		99	80 - 120
Nickel	50.0	50.8		mg/Kg		102	80 - 120
Selenium	50.0	52.6	^	mg/Kg		105	80 - 120
Silver	5.00	5.02		mg/Kg		100	80 - 120
Zinc	50.0	50.4		mg/Kg		101	80 - 120

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 180-218386/1-A
Matrix: Solid
Analysis Batch: 218639

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 218386

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.033	0.0074	mg/Kg		07/31/17 08:10	07/31/17 13:35	1

Lab Sample ID: LCS 180-218386/2-A
Matrix: Solid
Analysis Batch: 218639

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 218386

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.417	0.446		mg/Kg		107	80 - 120

Lab Sample ID: 180-68622-3 MS
Matrix: Solid
Analysis Batch: 218639

Client Sample ID: WB6-7, S3, C 072617
Prep Type: Total/NA
Prep Batch: 218386

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.035	J F1	0.218	0.298	F1	mg/Kg	☼	121	80 - 120

Lab Sample ID: 180-68622-3 MSD
Matrix: Solid
Analysis Batch: 218639

Client Sample ID: WB6-7, S3, C 072617
Prep Type: Total/NA
Prep Batch: 218386

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.035	J F1	0.203	0.273		mg/Kg	☼	117	80 - 120	9	20

Method: 2540G - SM 2540G

Lab Sample ID: 180-68622-3 DU
Matrix: Solid
Analysis Batch: 218418

Client Sample ID: WB6-7, S3, C 072617
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	15.1		16.7		%		10	20
Percent Solids	84.9		83.3		%		2	20

Method: 9014 - Cyanide

Lab Sample ID: MB 180-218907/4-A
Matrix: Solid
Analysis Batch: 219021

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 218907

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.50	0.15	mg/Kg		08/02/17 13:35	08/03/17 11:09	1

Lab Sample ID: HLCS 180-218907/2-A
Matrix: Solid
Analysis Batch: 219021

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 218907

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.250	0.255		mg/Kg		102	90 - 110

Lab Sample ID: LCS 180-218907/3-A
Matrix: Solid
Analysis Batch: 219021

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 218907

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	164	119		mg/Kg		73	38 - 162

Lab Sample ID: LLCS 180-218907/1-A
Matrix: Solid
Analysis Batch: 219021

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 218907

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.0500	0.0501		mg/Kg		100	90 - 110

Lab Sample ID: 180-68622-3 MS
Matrix: Solid
Analysis Batch: 219021

Client Sample ID: WB6-7, S3, C 072617
Prep Type: Total/NA
Prep Batch: 218907

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.37	J	5.83	6.24		mg/Kg	☼	101	75 - 125

Lab Sample ID: 180-68622-3 MSD
Matrix: Solid
Analysis Batch: 219021

Client Sample ID: WB6-7, S3, C 072617
Prep Type: Total/NA
Prep Batch: 218907

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cyanide, Total	0.37	J	5.72	5.56		mg/Kg	☼	91	75 - 125	12	20

QC Association Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68622-1

GC/MS VOA

Analysis Batch: 218353

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68622-1	WB6-7, S3, A 072617	Total/NA	Solid	8260C	218356
180-68622-2	WB6-7, S3, B 072617	Total/NA	Solid	8260C	218356
180-68622-4	WB6-7, S4, A 072617	Total/NA	Solid	8260C	218356
180-68622-5	WB6-7, S4, B 072617	Total/NA	Solid	8260C	218356
MB 180-218353/9	Method Blank	Total/NA	Solid	8260C	
LCS 180-218353/4	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 180-218353/5	Lab Control Sample Dup	Total/NA	Solid	8260C	

Prep Batch: 218356

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68622-1	WB6-7, S3, A 072617	Total/NA	Solid	5035	
180-68622-2	WB6-7, S3, B 072617	Total/NA	Solid	5035	
180-68622-4	WB6-7, S4, A 072617	Total/NA	Solid	5035	
180-68622-5	WB6-7, S4, B 072617	Total/NA	Solid	5035	

Analysis Batch: 218548

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68622-9	TRIP BLANK#1	Total/NA	Water	8260C	
MB 180-218548/5	Method Blank	Total/NA	Water	8260C	
LCS 180-218548/3	Lab Control Sample	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 218664

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68622-3	WB6-7, S3, C 072617	Total/NA	Solid	3541	
180-68622-6	WB6-7, S4, C 072617	Total/NA	Solid	3541	
MB 180-218664/1-A	Method Blank	Total/NA	Solid	3541	
LCS 180-218664/2-A	Lab Control Sample	Total/NA	Solid	3541	
180-68622-3 MS	WB6-7, S3, C 072617	Total/NA	Solid	3541	
180-68622-3 MSD	WB6-7, S3, C 072617	Total/NA	Solid	3541	

Analysis Batch: 218731

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68622-3	WB6-7, S3, C 072617	Total/NA	Solid	8270D LL	218664
180-68622-6	WB6-7, S4, C 072617	Total/NA	Solid	8270D LL	218664
MB 180-218664/1-A	Method Blank	Total/NA	Solid	8270D LL	218664
LCS 180-218664/2-A	Lab Control Sample	Total/NA	Solid	8270D LL	218664
180-68622-3 MS	WB6-7, S3, C 072617	Total/NA	Solid	8270D LL	218664
180-68622-3 MSD	WB6-7, S3, C 072617	Total/NA	Solid	8270D LL	218664

GC Semi VOA

Prep Batch: 218666

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68622-3	WB6-7, S3, C 072617	Total/NA	Solid	3541	
180-68622-6	WB6-7, S4, C 072617	Total/NA	Solid	3541	
MB 180-218666/1-A	Method Blank	Total/NA	Solid	3541	
LCS 180-218666/2-A	Lab Control Sample	Total/NA	Solid	3541	

GC Semi VOA (Continued)

Cleanup Batch: 218720

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68622-3	WB6-7, S3, C 072617	Total/NA	Solid	3665A	218666
180-68622-6	WB6-7, S4, C 072617	Total/NA	Solid	3665A	218666

Cleanup Batch: 218721

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68622-3	WB6-7, S3, C 072617	Total/NA	Solid	3660B	218720
180-68622-6	WB6-7, S4, C 072617	Total/NA	Solid	3660B	218720

Analysis Batch: 218951

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68622-3	WB6-7, S3, C 072617	Total/NA	Solid	8082A	218721
180-68622-6	WB6-7, S4, C 072617	Total/NA	Solid	8082A	218721
MB 180-218666/1-A	Method Blank	Total/NA	Solid	8082A	218666
LCS 180-218666/2-A	Lab Control Sample	Total/NA	Solid	8082A	218666

Metals

Prep Batch: 218386

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68622-3	WB6-7, S3, C 072617	Total/NA	Solid	7471B	
180-68622-6	WB6-7, S4, C 072617	Total/NA	Solid	7471B	
MB 180-218386/1-A	Method Blank	Total/NA	Solid	7471B	
LCS 180-218386/2-A	Lab Control Sample	Total/NA	Solid	7471B	
180-68622-3 MS	WB6-7, S3, C 072617	Total/NA	Solid	7471B	
180-68622-3 MSD	WB6-7, S3, C 072617	Total/NA	Solid	7471B	

Prep Batch: 218412

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68622-3	WB6-7, S3, C 072617	Total/NA	Solid	3050B	
180-68622-6	WB6-7, S4, C 072617	Total/NA	Solid	3050B	
MB 180-218412/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 180-218412/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Analysis Batch: 218639

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68622-3	WB6-7, S3, C 072617	Total/NA	Solid	7471B	218386
180-68622-6	WB6-7, S4, C 072617	Total/NA	Solid	7471B	218386
MB 180-218386/1-A	Method Blank	Total/NA	Solid	7471B	218386
LCS 180-218386/2-A	Lab Control Sample	Total/NA	Solid	7471B	218386
180-68622-3 MS	WB6-7, S3, C 072617	Total/NA	Solid	7471B	218386
180-68622-3 MSD	WB6-7, S3, C 072617	Total/NA	Solid	7471B	218386

Analysis Batch: 218674

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68622-3	WB6-7, S3, C 072617	Total/NA	Solid	6010C	218412
180-68622-6	WB6-7, S4, C 072617	Total/NA	Solid	6010C	218412
MB 180-218412/1-A	Method Blank	Total/NA	Solid	6010C	218412
LCS 180-218412/2-A	Lab Control Sample	Total/NA	Solid	6010C	218412

QC Association Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68622-1

General Chemistry

Analysis Batch: 218418

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68622-1	WB6-7, S3, A 072617	Total/NA	Solid	2540G	
180-68622-2	WB6-7, S3, B 072617	Total/NA	Solid	2540G	
180-68622-3	WB6-7, S3, C 072617	Total/NA	Solid	2540G	
180-68622-4	WB6-7, S4, A 072617	Total/NA	Solid	2540G	
180-68622-5	WB6-7, S4, B 072617	Total/NA	Solid	2540G	
180-68622-6	WB6-7, S4, C 072617	Total/NA	Solid	2540G	
180-68622-3 DU	WB6-7, S3, C 072617	Total/NA	Solid	2540G	

Prep Batch: 218907

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68622-3	WB6-7, S3, C 072617	Total/NA	Solid	9010C	
180-68622-6	WB6-7, S4, C 072617	Total/NA	Solid	9010C	
MB 180-218907/4-A	Method Blank	Total/NA	Solid	9010C	
HLCS 180-218907/2-A	Lab Control Sample	Total/NA	Solid	9010C	
LCS 180-218907/3-A	Lab Control Sample	Total/NA	Solid	9010C	
LLCS 180-218907/1-A	Lab Control Sample	Total/NA	Solid	9010C	
180-68622-3 MS	WB6-7, S3, C 072617	Total/NA	Solid	9010C	
180-68622-3 MSD	WB6-7, S3, C 072617	Total/NA	Solid	9010C	

Analysis Batch: 219021

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68622-3	WB6-7, S3, C 072617	Total/NA	Solid	9014	218907
180-68622-6	WB6-7, S4, C 072617	Total/NA	Solid	9014	218907
MB 180-218907/4-A	Method Blank	Total/NA	Solid	9014	218907
HLCS 180-218907/2-A	Lab Control Sample	Total/NA	Solid	9014	218907
LCS 180-218907/3-A	Lab Control Sample	Total/NA	Solid	9014	218907
LLCS 180-218907/1-A	Lab Control Sample	Total/NA	Solid	9014	218907
180-68622-3 MS	WB6-7, S3, C 072617	Total/NA	Solid	9014	218907
180-68622-3 MSD	WB6-7, S3, C 072617	Total/NA	Solid	9014	218907

TestAmerica Pittsburgh
301 Alpha Drive RIDC Park
Pittsburgh, PA 15238
Phone (412) 963-7058 Fax (412) 963-2468

Chain of Custody Reco

180-68622 Chain of Custody

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Ellen Buelow	Lab PM: Dunlap, Da\	COC No: 180-38494-8381.1
Client Contact: Ashwin Ranna; Aron Krasnopoler	Phone: 412-552-4758	E-Mail: david.dunlap@testamericainc.com	Page: Page/ of 1
Company: Geosyntec Consultants, Inc.			Job #:
Address: Penn Center West One, Suite 402 1 Penn Center West Drive	Due Date Requested:		
City: Pittsburgh	TAT Requested (days): 1 day		
State, Zip: PA, 15276			
Phone:	PO #: MN0832B		
Email: aranna@geosyntec.com; Akrasnopoler@geosyntec.com	WO #:		
Project Name: Former Sperry Remington Site - North IRM	Project #: 18013464		
Site: Elmira NY	SSOW#:		

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - VOA-Select List	6010C, 7471B, 9014 - Select ICP Metals, Mercury, Cyanide	8082A, 8270D, PCBs, Select BNA	8260C - VOA-Select List (Trip Blanks only)	TCLP RCRA METALS	TCLP SEMI VOA	TCLP VOC	PCB 8082A	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	A						
WB6-7,S3,A 072617	072617	13:45	G	Solid	N	N	X								4	
WB6-7,S3,B 072617	072617	13:40	G	Solid	N	N	X								4	
WB6-7,S3,C 072617	072617	13:50	C	Solid	N	N		X	X						2	
WB6-7,S4,A 072617	072617	15:00	G	Solid	N	N	X								4	
WB6-7,S4,B 072617	072617	15:05	G	Solid	N	N	X								4	
WB6-7,S4,C 072617	072617	15:10	C	Solid	N	N		X	X						2	
WB5-6,S1,A 072617	072617	16:40	G	Solid	N	Y							X		6	MS/MSD 12
WB5-6,S1,C 072617	072617	16:55	C	Solid	N	Y					X	X		X	9	Perform MS/MSD 13
TRIP BLANK #1	072617	—	W	Solid	N	N				X					2	
				Solid												
				Solid												

RUSH

Possible Hazard Identification
☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☑ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	Ellen Buelow	07/26/2017	Geosyntec		7/27/17 0800	TAPitt
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: △ Yes △ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 180-68622-1

Login Number: 68622
List Number: 1
Creator: Neri, Tom

List Source: TestAmerica Pittsburgh

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Geosyntec consultants

180A Market Place Blvd.
Knoxville, TN 37922
PH 865.330.0037
www.geosyntec.com

Memorandum

Date:	14 August 2017
To:	Aron Krasnopoler
From:	Chris Pracheil
CC:	J. Caprio
Subject:	**Stage 2A Data Validation - Level II Data Deliverable, TestAmerica Job ID # 180-68622-1**

SITE: Former Sperry Remington Site-North IRM

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of six solid samples and one trip blank, collected July 26, 2017, as part of the Former Sperry Remington Site-North IRM project. The analyses were performed at TestAmerica Laboratories, Inc., Pittsburgh, Pennsylvania. The samples were analyzed for the following tests:

- Volatile Organic Compounds (VOCs) by EPA Methods 8260C and 5035/8260C
- Semivolatile Organic Compounds (SVOCs) by EPA Methods 3541/8270D
- Polychlorinated Biphenyls (PCBs) by EPA Methods 3541/8082A
- Metals by EPA Methods 3050B/6010C
- Mercury by EPA Method 7471B
- Total Cyanide by EPA Methods 9010C/9014
- Total Solids by Standard Method 2540G

EXECUTIVE SUMMARY

The samples were handled, prepared, and measured in the same manner under similar prescribed conditions.

Overall, based on this Stage 2A data validation covering the quality control (QC) parameters listed below, the data as qualified are usable for meeting project objectives. Qualified data should be used within the limitations of the qualification.

The data were validated based on the Quality Assurance Project Plan (QAPP) for Former Sperry Remington Facility Industrial Outfall Site, Elmira, New York, NYSDEC Site I.D. # 808043,

NY09-2480-04, July 7, 2010, Revised November 11, 2010, USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review, January 2017 (EPA 540-R-2017-002), USEPA Contract Laboratory Program National Functional Guidelines for Superfund Inorganic Methods Data Review, January 2017 (EPA 540-R-2017-001), the pertinent methods referenced by the laboratory report and professional and technical judgment.

The following samples were analyzed and validated at Stage 2A level in the data set:

Laboratory ID	Client ID
180-68622-1	WB6-7, S3, A 072617
180-68622-2	WB6-7, S3, B 072617
180-68622-3	WB6-7, S3, C 072617
180-68622-4	WB6-7, S4, A 072617

Laboratory ID	Client ID
180-68622-5	WB6-7, S4, B 072617
180-68622-6	WB6-7, S4, C 072617
180-68622-9	TRIP BLANK#1

The samples were received at the laboratory at 2.1°C within the criteria of 0-6°C. No sample preservation issues were noted by the laboratory.

The following sample receiving issues were noted:

- Incorrect error corrections were observed on the chain of custody (COC), instead of the proper procedure of a single strike through, correction, and initials and date of person making the corrections.
- There was no time documented on the COC for the sample relinquishing.
- There was rush sticker on the COC, obliterating part of the analysis request section of the COC.
- Samples WB5-6, S1, A 072617 and WB5-6, S1, C 072617 were listed on the COC and reported in laboratory report 180-68622-2.

The solids data, used to report the samples on a dry weight basis, were not validated.

1.0 VOLATILE ORGANIC COMPOUNDS

The samples were analyzed for VOCs by EPA methods 8260C and 5035/8260C.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Surrogates
- ✓ Trip Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

1.1 Overall Assessment

The VOC data reported in this package are considered usable for meeting project objectives. The analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this package is 100%.

The narrative indicated that the continuing calibration verification (CCV) percent difference (%D) for vinyl chloride was high, outside method specified acceptance criteria in analytical batch 218353. The %D was 24%D, with a low bias; the method specified acceptance criteria is 20%D. Since the %D was within the validation guidance of 25%D, no qualifications were applied to the data.

The narrative indicated that the CCV %D for acetone was high, outside method specified acceptance criteria in analytical batch 218548. The %D was 26%D, with a low bias; the method limit is 20%D. Since the %D was within the validation guidance of 40%D, no qualifications were applied to the data.

1.2 Holding Times

The holding times for the VOC analysis of a solid sample collected using a Terracore are 48 hours from collection to laboratory receipt and 14 days from sample collection to analysis. The holding time for the VOC analysis of a preserved water sample is 14 days from sample collection to analysis. The holding times were met for the sample analyses.

1.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two method blanks were reported (batches 218548 and 218356). VOCs were not detected in the method blanks above the method detection limits (MDLs).

1.4 Matrix Spike/Matrix Spike Duplicate (MS/MSD)

MS/MSD pairs were not reported with the sample set.

1.5 Laboratory Control Sample (LCS)

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS and one LCS/LCS duplicate (LCSD) pair were reported. The recovery and relative percent difference (RPD) results were within the laboratory specified acceptance criteria.

1.6 Surrogates

Acceptable surrogate recoveries were reported.

1.7 Trip Blank

One trip blank, TRIP BLANK#1, accompanied the samples. VOCs were not detected in the trip blank above the MDLs, with the following exception.

Acetone was detected at an estimated concentration, greater than the MDL and less than the RL in the trip blank. Therefore, the estimated concentrations of acetone in the associated samples were U qualified as not detected at the reporting limit (RL).

Sample	Compound	Laboratory Result (mg/kg)	Laboratory Flag	Validation Result (mg/kg)	Validation Qualifier*	Reason Code**
WB6-7, S4, A 072617	Acetone	0.0026	J	0.016	U	3
WB6-7, S4, B 072617	Acetone	0.0028	J	0.016	U	3

mg/kg-milligrams per kilogram
J- result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value
* Validation qualifiers are defined in Attachment 1 at the end of this report
**Reason codes are defined in Attachment 2 at the end of this report

1.8 Field Duplicate

A field duplicate was not collected with the sample set.

1.9 Sensitivity

The samples were reported to the MDLs. No elevated non-detect results were reported.

The MDLs were at or below the NYSDEC DER10 App 5 Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010.

1.10 Electronic Data Deliverable (EDD) Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The sample date and time were included in the sample IDs in the EDD and not included in the sample IDs in the laboratory report. No other discrepancies were identified between the level II report and the EDD.

2.0 SEMIVOLATILE ORGANIC COMPOUNDS

The samples were analyzed for SVOCs by EPA methods 3541/8270D.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Surrogates
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

2.1 Overall Assessment

The SVOC data reported in this package are considered usable for meeting project objectives. The analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this package is 100%.

2.2 Holding Times

The holding times for SVOC analysis of solid samples are 14 days from sample collection to extraction and 40 days from extraction to analysis. The holding times were met for the sample analyses.

2.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 218664). SVOCs were not detected in the method blank above the MDLs.

2.4 Matrix Spike/Matrix Spike Duplicate

MS/MSD pairs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). A sample set specific MS/MSD pair was reported, using sample WB6-7, S3, C 072617. The recovery and RPD results were within the laboratory specified acceptance criteria.

2.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery results were within the laboratory specified acceptance criteria.

2.6 Surrogates

Acceptable surrogate recoveries were reported.

2.7 Field Duplicate

A field duplicate was not collected with the sample set.

2.8 Sensitivity

The samples were reported to the MDLs. No elevated non-detect results were reported.

The MDLs were at or below the NYSDEC DER10 App 5 Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010. It was noted that no NYSDEC DER10 App 5 Constituent Levels for Imported Fill were listed for the following compounds:

2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dinitrotoluene
2-Methylphenol
Dibenzofuran
Hexachlorobenzene

Hexachlorobutadiene
Hexachloroethane
Methylphenol, 3 & 4
Nitrobenzene
Pyridine

2.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The sample date and time were included in the sample IDs in the EDD and not included in the sample IDs in the laboratory report. No other discrepancies were identified between the level II report and the EDD.

3.0 POLYCHLORINATED BIPHENYLS

The samples were analyzed for PCBs by EPA Methods 3541/8082A.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

⊗ Overall Assessment
✓ Holding Times
✓ Method Blank
✓ Matrix Spike/Matrix Spike Duplicate
✓ Laboratory Control Sample
✓ Surrogates
✓ Field Duplicate
✓ Sensitivity
✓ Electronic Data Deliverable Review

3.1 Overall Assessment

The PCB data reported in this data set are considered usable for meeting project objectives. The analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this data set is 100%.

The samples contain mixtures of PCBs 1248, 1254 and 1260. There are peaks in 1248 and 1254 that are in both of these PCBs and peaks in 1254 and 1260 that are in both of these PCBs; therefore, there is contribution between PCBs when more than one PCB is detected in a sample. Therefore, based on professional and technical judgment, the concentrations of PCBs 1248, 1254 and 1260 in these samples were J qualified as estimated.

Sample ID	Compound	Laboratory Concentration (mg/kg)	Laboratory Flag	Validation Concentration (mg/kg)	Validation Qualifier	Reason Code
WB6-7, S3, C 072617	PCB-1248	0.40	NA	0.40	J	13
WB6-7, S3, C 072617	PCB-1254	0.19	NA	0.19	J	13
WB6-7, S3, C 072617	PCB-1260	0.041	NA	0.041	J	13
WB6-7, S4, C 072617	PCB-1248	0.76	NA	0.76	J	13
WB6-7, S4, C 072617	PCB-1254	0.34	NA	0.34	J	13
WB6-7, S4, C 072617	PCB-1260	0.068	NA	0.068	J	13

mg/kg-milligrams per kilograms
NA-not applicable

3.2 Holding Times

No holding times are listed in the referenced method for PCB analyses. The samples were extracted and analyzed within 8 days of collection. Therefore, no qualifications were applied to the data, based on professional and technical judgment.

3.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 218666). PCBs were not detected in the method blank above the MDLs.

3.4 Matrix Spike/Matrix Spike Duplicate

An MS/MSD pair was not reported.

3.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery results were within the laboratory specified acceptance criteria.

3.6 Surrogates

Acceptable surrogate recoveries were reported for the sample analyses.

3.7 Field Duplicate

Field duplicates were not collected with the sample set.

3.8 Sensitivity

The samples were reported to the MDLs. No elevated non-detect results were reported.

It was noted that no NYSDEC constituent levels were listed for PCBs.

3.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The sample date and time were included in the sample IDs in the EDD and not included in the sample IDs in the laboratory report. No other discrepancies were identified between the level II report and the EDD.

4.0 METALS

The samples were analyzed for metals by EPA methods 3050B/6010C (Mercury evaluated separately in Section 5.0, below).

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

⊗ Overall Assessment
✓ Holding Times
✓ Method Blank

- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

4.1 Overall Assessment

The metals data reported in this data set are considered usable for meeting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this data set is 100%.

The low level CCV percent recovery for selenium in batch 218674 was high, outside laboratory specified acceptance criteria. Therefore, the concentration of selenium in the associated sample was J qualified as estimated.

Sample	Compound	Laboratory Result (mg/kg)	Laboratory Flag	Validation Result (mg/kg)	Validation Qualifier	Reason Code
WB6-7, S4, C 072617	Selenium	0.88	J^	0.88	J	9

mg/kg-milligrams per kilograms
J-result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value
^-laboratory flag indicating that the instrument related QC is outside acceptance limits

4.2 Holding Times

The holding time for the metals analysis of a solid sample is 180 days from sample collection to analysis. The holding times were met for the sample analyses.

4.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 218412). The metals were not detected in the method blank above the MDLs.

4.4 Matrix Spike/Matrix Spike Duplicate

An MS/MSD pair was not reported.

4.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery results were within the laboratory specified acceptance criteria.

4.6 Laboratory Duplicate

A laboratory duplicate was not reported.

4.7 Field Duplicate

A field duplicate was not collected with the sample set.

4.8 Sensitivity

The samples were reported to the MDLs. No elevated non-detect results were reported.

The MDLs were at or below the NYSDEC DER10 App 5 Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010. It was noted that no NYSDEC constituent level was listed for chromium.

4.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The sample date and time were included in the sample IDs in the EDD and not included in the sample IDs in the laboratory report. No other discrepancies were identified between the level II report and the EDD.

5.0 MERCURY

The samples were analyzed for mercury by EPA method 7471B.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

✓ Overall Assessment
✓ Holding Times

✓ Method Blank
⊗ Matrix Spike/Matrix Spike Duplicate
✓ Laboratory Control Sample
✓ Laboratory Duplicate
✓ Field Duplicate
✓ Sensitivity
✓ Electronic Data Deliverable Review

5.1 Overall Assessment

The mercury data reported in this data set are considered usable for meeting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this data set is 100%.

5.2 Holding Times

The holding time for the mercury analysis of solid samples is 28 days from sample collection to analysis. The holding times were met for the sample analyses.

5.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 218386). Mercury was not detected in the method blank above the MDL.

5.4 Matrix Spike/Matrix Spike Duplicate

MS/MSD pairs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). A sample set specific MS/MSD pair was reported, using sample WB6-7, S3, C 072617. The recovery and RPD results were within the laboratory specified acceptance criteria, with the following exception.

The MS recovery of mercury was high, outside the laboratory specified acceptance criteria. Therefore, the concentration of mercury in sample WB6-7, S3, C 072617 was J qualified as estimated.

Sample ID	Compound	Laboratory Concentration (mg/kg)	Laboratory Flag	Validation Concentration (mg/kg)	Validation Qualifier	Reason Code
WB6-7, S3, C 072617	Mercury	0.035	J, F1	0.035	J	4

mg/kg-milligrams per kilogram
J- result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value
F1-laboratory flag indicating the MS and/or MSD recovery is outside acceptance limits

5.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery results were within the laboratory specified acceptance criteria.

5.6 Laboratory Duplicate

A laboratory duplicate was not reported.

5.7 Field Duplicate

A field duplicate was not collected with the sample set.

5.8 Sensitivity

The samples were reported to the MDL. No elevated non-detect results were reported.

The MDL was at or below the NYSDEC DER10 App 5 Constituent Level for Imported Fill or Soil Restricted Residential Use May 2010.

5.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The sample date and time were included in the sample IDs in the EDD and not included in the sample IDs in the laboratory report. No other discrepancies were identified between the level II report and the EDD.

6.0 TOTAL CYANIDE

The samples were analyzed for total cyanide by EPA Methods 9010C/9014.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

6.1 Overall Assessment

The total cyanide data reported in this data set are considered usable for meeting project objectives. The analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this data set is 100%.

6.2 Holding Times

The holding time for the total cyanide analysis of solid samples is 14 days from sample collection to analysis. The holding times were met for the sample analyses.

6.3 Method Blanks

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 218907). Cyanide was not detected in the method blank above the MDL.

6.4 Matrix Spike/Matrix Spike Duplicate

MS/MSD pairs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). A sample set specific MS/MSD pair was reported, using sample WB6-7, S3, C 072617. The recovery and RPD results were within the laboratory specified acceptance criteria.

6.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Three LCSs were reported. The recovery results were within the laboratory specified acceptance criteria.

6.6 Laboratory Duplicate

Laboratory duplicates were not reported.

6.7 Field Duplicate

A field duplicate was not collected with the sample set.

6.8 Sensitivity

The samples were reported to the MDL. No elevated non-detect results were reported.

The MDL was at or below the NYSDEC DER10 App 5 Constituent Level for Imported Fill or Soil Restricted Residential Use May 2010.

6.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The sample date and time were included in the sample IDs in the EDD and not included in the sample IDs in the laboratory report. No other discrepancies were identified between the level II report and the EDD.

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ATTACHMENT 1
DATA VALIDATION QUALIFIER DEFINITIONS AND INTERPRETATION KEY
Assigned by Geosyntec's Data Validation Team

DATA QUALIFIER DEFINITIONS

U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

J+ The analyte was positively identified; however, the associated numerical value is likely to be higher that the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.

J- The analyte was positively identified; however, the associated numerical value is likely to be lower that the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ATTACHMENT 2
DATA VALIDATION REASON CODES
Assigned by Geosyntec's Data Validation Team

Valid Value	Description
1	Preservation requirement not met
2	Analysis holding time exceeded
3	Blank contamination (i.e., method, trip, equipment, etc.)
4	Matrix spike/matrix spike duplicate recovery or RPD outside limits
5	LCS recovery outside limits
6	Surrogate recovery outside limits
7	Field Duplicate RPD exceeded
8	Serial dilution percent difference exceeded
9	Calibration criteria not met
10	Linear range exceeded
11	Internal standard criteria not met
12	Lab duplicates RPD exceeded
13	Other

RPD-relative percent difference

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Request to Import/Reuse Fill or Soil

This form is based on the information required by DER-10, Section 5.4(e). Use of this form is not a substitute for reading the applicable Technical Guidance document.

SECTION 1 – SITE BACKGROUND

The allowable site use is: Restricted Residential Use

Have Ecological Resources been identified? yes

Is this soil originating from the site? no

How many cubic yards of soil will be imported/reused? 800-1000

If greater than 1000 cubic yards will be imported, enter volume to be imported:

SECTION 2 – MATERIAL OTHER THAN SOIL

Is the material to be imported gravel, rock or stone? no

Does it contain less than 10%, by weight, material that would pass a size 80 sieve? yes

Is this virgin material from a permitted mine or quarry? yes

Is this material recycled concrete or brick from a DEC registered processing facility? no

SECTION 3 - SAMPLING

Provide a brief description of the number and type of samples collected in the space below:

Seven (7) Discrete Samples were collected and analyzed for VOCs. Two (2) Composite Samples were collected and analyzed for SVOCs, Inorganics, and PCBs/Pesticides. The chain of custody incorrectly shows the same Sample ID for the composite samples and the first two discrete VOC samples. The Analytical Results have been attached to this form.

Two (2) composite samples were collected and analyzed for grain size distribution and moisture-density.

Example Text: 5 discrete samples were collected and analyzed for VOCs. 2 composite samples were collected and analyzed for SVOCs, Inorganics & PCBs/Pesticides.

If the material meets requirements of DER-10 section 5.5 (other material), no chemical testing needed.

SECTION 3 CONT'D - SAMPLING

Provide a brief written summary of the sampling results or attach evaluation tables (compare to DER-10, Appendix 5):

Analytical results are compared to Restricted Residential SCO.

VOC analyses: acetone, benzene, toluene, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene and total xylenes were detected in 7 of 7 samples at levels below Restricted Residential SCOs.

There were no detections of SVOCs, PCBs, or pesticides in the two composite samples.

Metals analyses: arsenic, barium, beryllium, copper, lead manganese, nickel, zinc, and mercury were detected at levels below Restricted Residential SCOs.

Example Text: Arsenic was detected up to 17 ppm in 1 (of 5) samples; the allowable level is 16 ppm.

If Ecological Resources have been identified use the "If Ecological Resources are Present" column in Appendix 5.

SECTION 4 – SOURCE OF FILL

Name of person providing fill and relationship to the source:

Edger Enterprises

Location where fill was obtained:

Brewer's Pit located in Horseheads NY

Identification of any state or local approvals as a fill source:

NYSDEC Facility ID 8-0734-00150

If no approvals are available, provide a brief history of the use of the property that is the fill source:

Provide a list of supporting documentation included with this request:

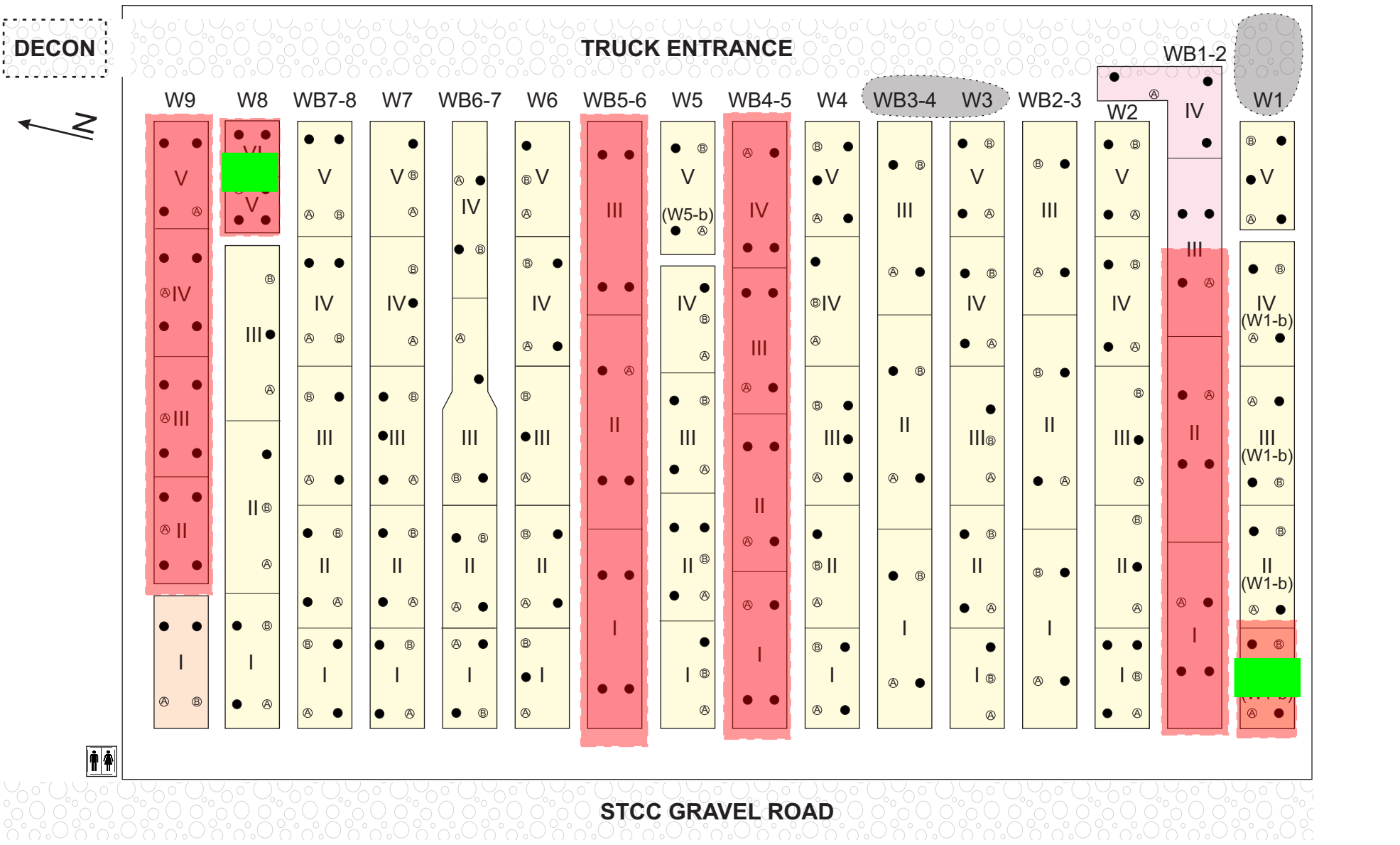
Geotechnical Data and the Chemical Analysis Reports

The information provided on this form is accurate and complete.

	6-23-17
Signature	Date
Kyle Snyder	
Print Name	
RECON	
Firm	

FORMER SPERRY REMINGTION STCC STOCKPILE AREA

as of 23rd August 2017 (Material taken offsite)



Legend

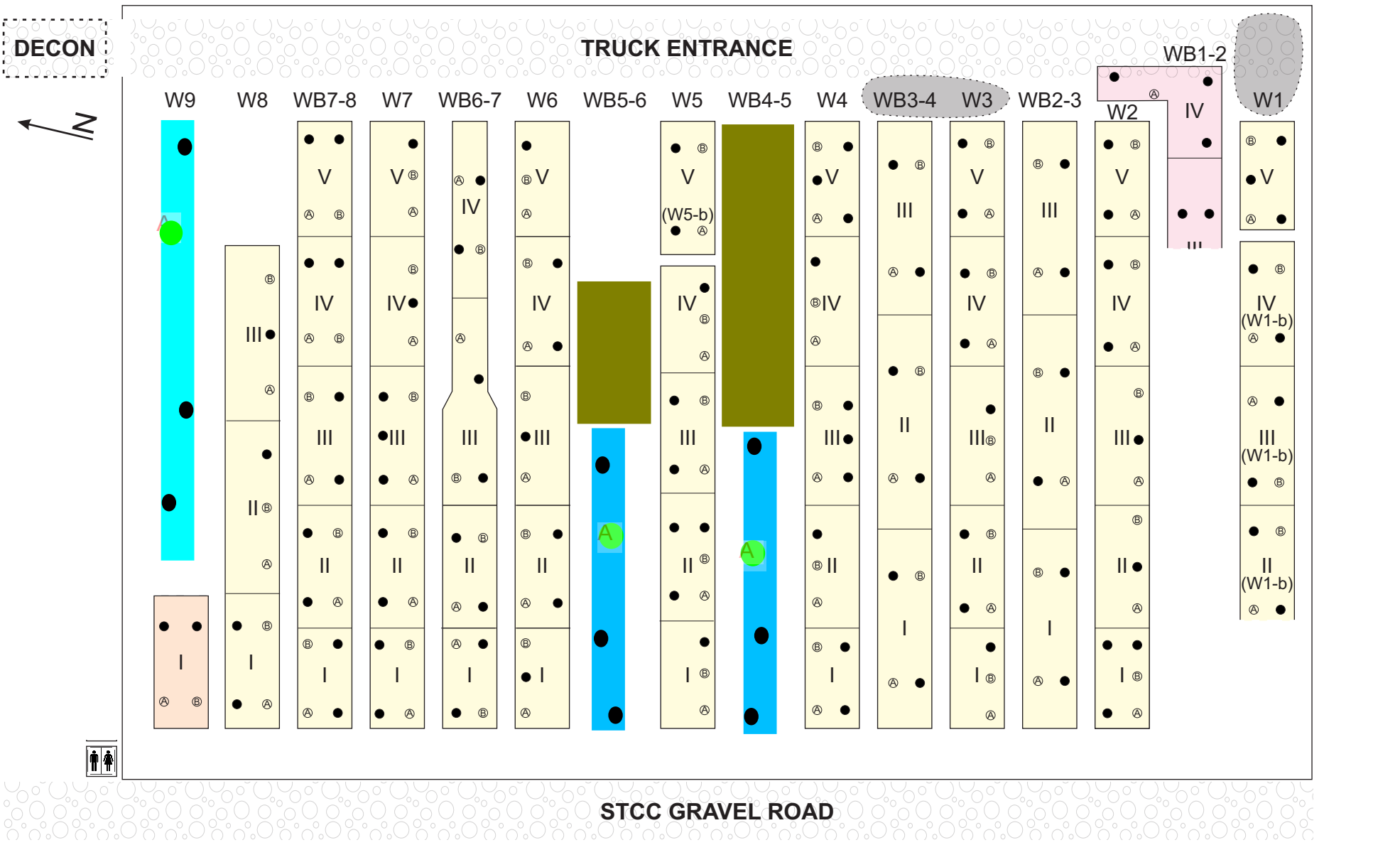
10<50 ppm | TSCA overlay | <10 ppm | Gravel Road(s) | I-VI Windrow ≤100yd³ sections | Sample(s)

Mulch, Asphalt, Concrete | Material taken offsite | Small pile of leftover material from section. Still to be taken offsite.

Note: This figure is not to scale, but depicts general location of windrows, sections, approximate sampling locations, and material PCB concentrations. There is no SIV of W8.

FORMER SPERRY REMINGTION STCC STOCKPILE AREA

as of 23rd August 2017 (Material currently in place)



Legend

10<50 ppm | TSCA overlay | <10 ppm | Gravel Road(s) | I-VI Windrow ≤100yd³ sections | Sample(s)

Mulch, Asphalt, Concrete | Football field>10 ppm material | Haul Road material(to be sampled) | Football field < 10 ppm material

Note: This figure is not to scale, but depicts general location of windrows, sections, approximate sampling locations, and material PCB concentrations. There is no SIV of W8.

TABLE 1

Request for Reuse - Summary of Analytical Results
Former Sperry Remington Site - North Portion
Elmira, New York

				Field_ID	W1-b, S2, A 073117	W1-b, S2, B 073117	W1-b, S2, C 073117	W1-b, S3, A 073117	W1-b, S3, B 073117	W1-b, S3, C 073117	W1-b, S4, A 073117	W1-b, S4, B 073117	W1-b, S4, C 073117
				Sample Date	7/31/2017	7/31/2017	7/31/2017	7/31/2017	7/31/2017	7/31/2017	7/31/2017	7/31/2017	7/31/2017
				Lab_Report_Number	180-68756-1	180-68756-1	180-68756-1	180-68756-1	180-68756-1	180-68756-1	180-68756-1	180-68756-1	180-68756-1
				..									
Group	**Analyte**	**Units**	**EQL**										
PCBs	Arochlor 1016	mg/kg	0.0092	0	-	-	<0.0098U	-	-	<0.0098U	-	-	<0.0098U
	Arochlor 1221	mg/kg	0.009	0	-	-	<0.0096U	-	-	<0.0096U	-	-	<0.0096U
	Arochlor 1232	mg/kg	0.0069	0	-	-	<0.0073U	-	-	<0.0073U	-	-	<0.0073U
	Arochlor 1242	mg/kg	0.014	0	-	-	<0.015U	-	-	<0.015U	-	-	<0.015U
	Arochlor 1248	mg/kg	0.017	0	-	-	3.2J	-	-	0.83J	-	-	1J
	Arochlor 1254	mg/kg	0.017	0	-	-	2J	-	-	0.6J	-	-	0.65J
	Arochlor 1260	mg/kg	0.012	0	-	-	0.34J	-	-	0.14J	-	-	0.15J
	Arochlor 1268	mg/kg	0.0053	0	-	-	<0.0056U	-	-	<0.0056U	-	-	<0.0057U
	Arochlor 1262	mg/kg	0.012	0	-	-	<0.013U	-	-	<0.013U	-	-	<0.013U
	Total PCBs	mg/kg		1	-	-	5.54	-	-	1.57	-	-	1.8
SVOCs	1,4-Dioxane	mg/kg	0.0053	0.1	-	-	<0.11U	-	-	<0.011U	-	-	<0.028U
	2,4,5-trichlorophenol	mg/kg	0.0034	0	-	-	<0.071U	-	-	<0.007U	-	-	<0.018U
	2,4,6-trichlorophenol	mg/kg	0.0031	0	-	-	<0.066U	-	-	<0.0065U	-	-	<0.016U
	2,4-Dinitrotoluene	mg/kg	0.0047	0	-	-	<0.099U	-	-	<0.0098U	-	-	<0.024U
	2-methylphenol	mg/kg	0.0031	0.33	-	-	<0.066U	-	-	<0.0065U	-	-	<0.016U
	4-methylphenol	mg/kg	0.0031	0.33	-	-	<0.066U	-	-	<0.0065U	-	-	<0.016U
	Acenaphthene	mg/kg	0.0024	98	-	-	<0.05U	-	-	0.011J	-	-	0.03J
	Acenaphthylene	mg/kg	0.0071	100	-	-	0.12J	-	-	0.13	-	-	0.49
	Anthracene	mg/kg	0.0071	100	-	-	0.087J	-	-	0.084	-	-	0.28
	Benz(a)anthracene	mg/kg	0.0071	1	-	-	0.29	-	-	0.29	-	-	1.2
	Benzo(a) pyrene	mg/kg	0.0071	1	-	-	0.3	-	-	0.29	-	-	1.1
	Benzo(b)fluoranthene	mg/kg	0.0071	1	-	-	0.44	-	-	0.44	-	-	1.3
	Benzo(g,h,i)perylene	mg/kg	0.0071	100	-	-	0.33	-	-	0.34	-	-	1
	Benzo(k)fluoranthene	mg/kg	0.0071	1.7	-	-	0.16	-	-	0.15	-	-	0.63
	Chrysene	mg/kg	0.0071	1	-	-	0.29	-	-	0.33	-	-	1.3
	Dibenz(a,h)anthracene	mg/kg	0.0071	0.33	-	-	0.066J	-	-	0.089	-	-	0.29
	Dibenzofuran	mg/kg	0.014	59	-	-	<0.06U	-	-	0.017J	-	-	0.026J
	Fluoranthene	mg/kg	0.0071	100	-	-	0.45	-	-	0.52	-	-	1.9
	Fluorene	mg/kg	0.0026	100	-	-	<0.053U	-	-	0.018	-	-	0.055
	Hexachlorobenzene	mg/kg	0.0028	1.2	-	-	<0.06U	-	-	<0.0059U	-	-	<0.015U
	Hexachlorobutadiene	mg/kg	0.0022	0	-	-	<0.047U	-	-	<0.0047U	-	-	<0.012U
	Hexachloroethane	mg/kg	0.0025	0	-	-	<0.054U	-	-	<0.0053U	-	-	<0.013U
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.0071	0.5	-	-	0.27	-	-	0.27	-	-	0.87
	Naphthalene	mg/kg	0.0071	12	-	-	0.059J	-	-	0.066	-	-	0.1
	Nitrobenzene	mg/kg	0.0027	0	-	-	<0.057U	-	-	<0.0056U	-	-	<0.014U
	Pentachlorophenol	mg/kg	0.067	0.8	-	-	<1.4U	-	-	<0.14U	-	-	<0.35U
	Phenanthrene	mg/kg	0.0071	100	-	-	0.22	-	-	0.18	-	-	0.48
	Phenol	mg/kg	0.0048	0.33	-	-	<0.1U	-	-	<0.01U	-	-	<0.025U
	Pyrene	mg/kg	0.0071	100	-	-	0.42	-	-	0.46	-	-	1.8
	Pyridine	mg/kg	0.0034	0	-	-	<0.072U	-	-	<0.0071U	-	-	<0.018U
Inorganics	Cyanide Total	mg/kg	0.14	27	-	-	<0.17U	-	-	<0.17U	-	-	<0.16U
Metals	Arsenic	mg/kg	1	16	-	-	8.3	-	-	8.1	-	-	7.9
	Barium	mg/kg	21	400	-	-	79	-	-	84	-	-	84
	Beryllium	mg/kg	0.42	47	-	-	0.43J	-	-	0.45J	-	-	0.4J
	Cadmium	mg/kg	0.12	4.3	-	-	<0.13U	-	-	<0.13U	-	-	<0.13U
	Chromium (III+VI)	mg/kg	0.52	19	-	-	11	-	-	12	-	-	11
	Copper	mg/kg	2.6	270	-	-	33	-	-	27	-	-	28
	Lead	mg/kg	1	400	-	-	54	-	-	39	-	-	39
	Manganese	mg/kg	1.6	2000	-	-	440	-	-	460	-	-	450
	Nickel	mg/kg	4.2	130	-	-	22	-	-	21	-	-	21
	Selenium	mg/kg	0.42	4	-	-	<0.47U	-	-	<0.47U	-	-	<0.45U
	Silver	mg/kg	0.17	8.3	-	-	<0.2U	-	-	<0.19U	-	-	<0.19U
	Zinc	mg/kg	2.1	2480	-	-	78	-	-	71	-	-	91
	Mercury	mg/kg	0.028	0.73	-	-	0.058	-	-	0.081	-	-	0.067

TABLE 1

Request for Reuse - Summary of Analytical Results
Former Sperry Remington Site - North Portion
Elmira, New York

				Field_ID	W1-b, S2, A 073117	W1-b, S2, B 073117	W1-b, S2, C 073117	W1-b, S3, A 073117	W1-b, S3, B 073117	W1-b, S3, C 073117	W1-b, S4, A 073117	W1-b, S4, B 073117	W1-b, S4, C 073117
				Sample Date	7/31/2017	7/31/2017	7/31/2017	7/31/2017	7/31/2017	7/31/2017	7/31/2017	7/31/2017	7/31/2017
				Lab_Report_Number	180-68756-1	180-68756-1	180-68756-1	180-68756-1	180-68756-1	180-68756-1	180-68756-1	180-68756-1	180-68756-1
				..									
Group	Analyte	Units	EQL										
VOCs	1,1,1-trichloroethane	mg/kg	0.0019	0.68	<0.0031U	<0.0023U	-	<0.0025U	<0.0027U	-	<0.0024U	<0.0038U	-
	1,1-dichloroethane	mg/kg	0.0014	0.27	<0.0022U	<0.0016U	-	<0.0018U	<0.0019U	-	<0.0017U	<0.0027U	-
	1,1-dichloroethene	mg/kg	0.0021	0.33	<0.0035U	<0.0026U	-	<0.0028U	<0.003U	-	<0.0027U	<0.0043U	-
	1,2,4-trimethylbenzene	mg/kg	0.001	3.6	<0.0017U	<0.0012U	-	<0.0013U	<0.0014U	-	<0.0013U	<0.002U	-
	1,2-dichlorobenzene	mg/kg	0.003	1.1	<0.005U	<0.0037U	-	<0.004U	<0.0043U	-	<0.0038U	<0.0061U	-
	1,2-dichloroethane	mg/kg	0.0011	0.02	<0.0018U	<0.0013U	-	<0.0014U	<0.0016U	-	<0.0014U	<0.0022U	-
	1,3,5-trimethylbenzene	mg/kg	0.0013	8.4	<0.0021U	<0.0016U	-	<0.0017U	<0.0018U	-	<0.0016U	<0.0026U	-
	1,3-dichlorobenzene	mg/kg	0.0012	2.4	<0.002U	<0.0015U	-	<0.0016U	<0.0017U	-	<0.0015U	<0.0024U	-
	1,4-dichlorobenzene	mg/kg	0.00077	1.8	<0.0013U	<0.00093U	-	<0.001U	<0.0011U	-	<0.00096U	<0.0015U	-
	Methyl Ethyl Ketone	mg/kg	0.0022	0.12	<0.0036U	<0.0026U	-	<0.0029U	<0.0031U	-	<0.0027U	<0.0044U	-
	Acetone	mg/kg	0.0024	0.05	<0.0039U	<0.0029U	-	<0.0031U	<0.0034U	-	<0.003U	<0.0047U	-
	Benzene	mg/kg	0.0015	0.06	<0.0024U	<0.0018U	-	<0.0019U	<0.0021U	-	<0.0018U	<0.003U	-
	Carbon tetrachloride	mg/kg	0.0025	0.76	<0.0041U	<0.003U	-	<0.0033U	<0.0035U	-	<0.0031U	<0.005U	-
	Chlorobenzene	mg/kg	0.0012	1.1	<0.0019U	<0.0014U	-	<0.0016U	<0.0017U	-	<0.0015U	<0.0024U	-
	Chloroform	mg/kg	0.0016	0.37	<0.0026U	<0.0019U	-	<0.0021U	<0.0023U	-	<0.002U	<0.0032U	-
	cis-1,2-dichloroethene	mg/kg	0.0012	0.25	<0.0019U	<0.0014U	-	<0.0016U	<0.0017U	-	<0.0015U	<0.0024U	-
	Dichloromethane	mg/kg	0.0018	0.05	<0.0029U	<0.0021U	-	<0.0023U	<0.0025U	-	<0.0022U	<0.0036U	-
	Ethylbenzene	mg/kg	0.0016	1	<0.0027U	<0.002U	-	<0.0021U	<0.0023U	-	<0.002U	<0.0032U	-
	Methyl-tert-butyl ether	mg/kg	0.0028	0.93	<0.0045U	<0.0034U	-	<0.0036U	<0.0039U	-	<0.0035U	<0.0055U	-
	n-butylbenzene	mg/kg	0.0029	12	<0.0047U	<0.0034U	-	<0.0037U	<0.0041U	-	<0.0036U	<0.0057U	-
	n-propylbenzene	mg/kg	0.0016	3.9	<0.0026U	<0.0019U	-	<0.0021U	<0.0023U	-	<0.002U	<0.0032U	-
	sec-butylbenzene	mg/kg	0.0018	11	<0.003U	<0.0022U	-	<0.0024U	<0.0026U	-	<0.0023U	<0.0037U	-
	Trichloroethene	mg/kg	0.0011	0.47	<0.0019U	<0.0014U	-	<0.0015U	<0.0016U	-	<0.0014U	<0.0023U	-
	tert-butylbenzene	mg/kg	0.0014	5.9	<0.0023U	<0.0017U	-	<0.0018U	<0.002U	-	<0.0017U	<0.0028U	-
	Tetrachloroethene	mg/kg	0.0015	1.3	<0.0025U	<0.0018U	-	<0.002U	<0.0021U	-	<0.0019U	<0.003U	-
	Toluene	mg/kg	0.0013	0.7	<0.0021U	<0.0015U	-	<0.0017U	<0.0018U	-	<0.0016U	<0.0025U	-
	trans-1,2-dichloroethene	mg/kg	0.0019	0.19	<0.0031U	<0.0023U	-	<0.0025U	<0.0027U	-	<0.0024U	<0.0038U	-
	Vinyl chloride	mg/kg	0.0028	0.02	<0.0045U	<0.0033U	-	<0.0036U	<0.0039U	-	<0.0034U	<0.0055U	-
	Xylene Total	mg/kg	0.0032	1.6	<0.0053U	<0.0039U	-	<0.0042U	<0.0046U	-	<0.004U	<0.0065U	-

TABLE 1

Request for Reuse - Summary of Analytical Results
Former Sperry Remington Site - North Portion
Elmira, New York

				Field_ID	WB2-3, S1, A 08.01.17	WB2-3, S1, B 08.01.17	WB2-3, S1, C 08.01.17	WB2-3, S2, A 08.01.17	WB2-3, S2, B 08.01.17	WB2-3, S2, C 08.01.17	WB2-3, S3, A 08.02.17	WB2-3, S3, B 08.02.17	WB2-3, S3, C 08.02.17
				Sample Date	8/1/2017	8/1/2017	8/1/2017	8/1/2017	8/1/2017	8/1/2017	8/2/2017	8/2/2017	8/2/2017
				Lab_Report_Number	180-68814-2	180-68814-2	180-68814-2	180-68814-2	180-68814-2	180-68814-2	180-68875-2	180-68875-2	180-68875-2
				..									
Group	**Analyte**	**Units**	**EQL**										
PCBs	Arochlor 1016	mg/kg	0.0092	0	-	-	<0.0098U	-	-	<0.0097U	-	-	<0.0098U
	Arochlor 1221	mg/kg	0.009	0	-	-	<0.0096U	-	-	<0.0094U	-	-	<0.0095U
	Arochlor 1232	mg/kg	0.0069	0	-	-	<0.0073U	-	-	<0.0072U	-	-	<0.0073U
	Arochlor 1242	mg/kg	0.014	0	-	-	<0.015U	-	-	<0.014U	-	-	<0.015U
	Arochlor 1248	mg/kg	0.017	0	-	-	2.3J	-	-	2.3J	-	-	1.6J
	Arochlor 1254	mg/kg	0.017	0	-	-	1.4J	-	-	1.1J	-	-	1.2J
	Arochlor 1260	mg/kg	0.012	0	-	-	0.2J	-	-	0.32J	-	-	0.19J
	Arochlor 1268	mg/kg	0.0053	0	-	-	<0.0057U	-	-	<0.0056U	-	-	<0.0056U
	Arochlor 1262	mg/kg	0.012	0	-	-	<0.013U	-	-	<0.013U	-	-	<0.013U
	Total PCBs	mg/kg		1	-	-	3.9	-	-	3.72	-	-	2.99
SVOCs	1,4-Dioxane	mg/kg	0.0053	0.1	-	-	<0.0056U	-	-	<0.011U	-	-	<0.0055U
	2,4,5-trichlorophenol	mg/kg	0.0034	0	-	-	<0.0035U	-	-	<0.0069U	-	-	<0.0035U
	2,4,6-trichlorophenol	mg/kg	0.0031	0	-	-	<0.0033U	-	-	<0.0064U	-	-	<0.0032U
	2,4-Dinitrotoluene	mg/kg	0.0047	0	-	-	<0.0049U	-	-	<0.0097U	-	-	<0.0049U
	2-methylphenol	mg/kg	0.0031	0.33	-	-	<0.0033U	-	-	<0.0064U	-	-	<0.0032U
	4-methylphenol	mg/kg	0.0031	0.33	-	-	<0.0033U	-	-	<0.0065U	-	-	<0.0033U
	Acenaphthene	mg/kg	0.0024	98	-	-	0.018	-	-	0.014J	-	-	0.01
	Acenaphthylene	mg/kg	0.0071	100	-	-	0.082	-	-	0.1	-	-	0.12
	Anthracene	mg/kg	0.0071	100	-	-	0.13J	-	-	0.1	-	-	0.097
	Benz(a)anthracene	mg/kg	0.0071	1	-	-	0.38J	-	-	0.36	-	-	0.26
	Benzo(a) pyrene	mg/kg	0.0071	1	-	-	0.38J	-	-	0.41	-	-	0.25
	Benzo(b)fluoranthene	mg/kg	0.0071	1	-	-	0.52J	-	-	0.56	-	-	0.37
	Benzo(g,h,i)perylene	mg/kg	0.0071	100	-	-	0.34J	-	-	0.39	-	-	0.28
	Benzo(k)fluoranthene	mg/kg	0.0071	1.7	-	-	0.16J	-	-	0.18	-	-	0.11
	Chrysene	mg/kg	0.0071	1	-	-	0.43J	-	-	0.39	-	-	0.29
	Dibenz(a,h)anthracene	mg/kg	0.0071	0.33	-	-	0.089	-	-	0.096	-	-	0.067
	Dibenzofuran	mg/kg	0.014	59	-	-	0.022J	-	-	0.018J	-	-	0.018J
	Fluoranthene	mg/kg	0.0071	100	-	-	0.63J	-	-	0.54	-	-	0.37
	Fluorene	mg/kg	0.0026	100	-	-	0.021	-	-	0.022	-	-	0.016
	Hexachlorobenzene	mg/kg	0.0028	1.2	-	-	<0.003U	-	-	<0.0059U	-	-	<0.003U
	Hexachlorobutadiene	mg/kg	0.0022	0	-	-	<0.0023U	-	-	<0.0046U	-	-	<0.0023U
	Hexachloroethane	mg/kg	0.0025	0	-	-	<0.0027U	-	-	<0.0052U	-	-	<0.0026U
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.0071	0.5	-	-	0.31J	-	-	0.35	-	-	0.22
	Naphthalene	mg/kg	0.0071	12	-	-	0.041	-	-	0.059	-	-	0.063
	Nitrobenzene	mg/kg	0.0027	0	-	-	<0.0028U	-	-	<0.0056U	-	-	<0.0028U
	Pentachlorophenol	mg/kg	0.067	0.8	-	-	<0.07U	-	-	<0.14U	-	-	<0.07U
	Phenanthrene	mg/kg	0.0071	100	-	-	0.33J	-	-	0.19	-	-	0.15
	Phenol	mg/kg	0.0048	0.33	-	-	<0.005U	-	-	<0.0099U	-	-	<0.005U
	Pyrene	mg/kg	0.0071	100	-	-	0.57J	-	-	0.46	-	-	0.39
	Pyridine	mg/kg	0.0034	0	-	-	<0.0036UJ	-	-	<0.007U	-	-	<0.0035U
Inorganics	Cyanide Total	mg/kg	0.14	27	-	-	<0.17U	-	-	0.26J	-	-	0.21J
Metals	Arsenic	mg/kg	1	16	-	-	6.8	-	-	5.2	-	-	6.8
	Barium	mg/kg	21	400	-	-	86	-	-	95	-	-	91
	Beryllium	mg/kg	0.42	47	-	-	0.4J	-	-	0.3J	-	-	0.39J
	Cadmium	mg/kg	0.12	4.3	-	-	0.16J	-	-	0.16J	-	-	0.17J
	Chromium (III+VI)	mg/kg	0.52	19	-	-	10	-	-	9.1	-	-	10
	Copper	mg/kg	2.6	270	-	-	24	-	-	32	-	-	36
	Lead	mg/kg	1	400	-	-	30	-	-	41	-	-	40
	Manganese	mg/kg	1.6	2000	-	-	460	-	-	350	-	-	420
	Nickel	mg/kg	4.2	130	-	-	20	-	-	17	-	-	20
	Selenium	mg/kg	0.42	4	-	-	<0.43U	-	-	<0.45U	-	-	<0.46U
	Silver	mg/kg	0.17	8.3	-	-	<0.18U	-	-	<0.19U	-	-	<0.19U
	Zinc	mg/kg	2.1	2480	-	-	64	-	-	83	-	-	66
	Mercury	mg/kg	0.028	0.73	-	-	0.055J+	-	-	0.042	-	-	0.094

TABLE 1

Request for Reuse - Summary of Analytical Results
Former Sperry Remington Site - North Portion
Elmira, New York

				Field_ID	WB2-3, S1, A 08.01.17	WB2-3, S1, B 08.01.17	WB2-3, S1, C 08.01.17	WB2-3, S2, A 08.01.17	WB2-3, S2, B 08.01.17	WB2-3, S2, C 08.01.17	WB2-3, S3, A 08.02.17	WB2-3, S3, B 08.02.17	WB2-3, S3, C 08.02.17
				Sample Date	8/1/2017	8/1/2017	8/1/2017	8/1/2017	8/1/2017	8/1/2017	8/2/2017	8/2/2017	8/2/2017
				Lab_Report_Number	180-68814-2	180-68814-2	180-68814-2	180-68814-2	180-68814-2	180-68814-2	180-68875-2	180-68875-2	180-68875-2
				..									
Group	**Analyte**	**Units**	**EQL**										
VOCs	1,1,1-trichloroethane	mg/kg	0.0019	0.68	<0.0024U	<0.0024U	-	<0.0024U	<0.0025U	-	<0.0021U	<0.0024U	-
	1,1-dichloroethane	mg/kg	0.0014	0.27	<0.0017U	<0.0017U	-	<0.0017U	<0.0018U	-	<0.0015U	<0.0017U	-
	1,1-dichloroethene	mg/kg	0.0021	0.33	<0.0027U	<0.0027U	-	<0.0027U	<0.0029U	-	<0.0024U	<0.0027U	-
	1,2,4-trimethylbenzene	mg/kg	0.001	3.6	<0.0013U	<0.0013U	-	<0.0013U	<0.0014U	-	<0.0011U	<0.0013U	-
	1,2-dichlorobenzene	mg/kg	0.003	1.1	<0.0038U	<0.0038U	-	<0.0038U	<0.0041U	-	<0.0034U	<0.0039U	-
	1,2-dichloroethane	mg/kg	0.0011	0.02	<0.0014U	<0.0014U	-	<0.0014U	<0.0015U	-	<0.0012U	<0.0014U	-
	1,3,5-trimethylbenzene	mg/kg	0.0013	8.4	<0.0016U	<0.0016U	-	<0.0016U	<0.0017U	-	<0.0015U	<0.0017U	-
	1,3-dichlorobenzene	mg/kg	0.0012	2.4	<0.0015U	<0.0015U	-	<0.0015U	<0.0016U	-	<0.0014U	<0.0015U	-
	1,4-dichlorobenzene	mg/kg	0.00077	1.8	<0.00096U	<0.00097U	-	<0.00096U	<0.001U	-	<0.00087U	<0.00098U	-
	Methyl Ethyl Ketone	mg/kg	0.0022	0.12	<0.0027U	<0.0028U	-	<0.0027U	<0.0029U	-	<0.0025U	<0.0028U	-
	Acetone	mg/kg	0.0024	0.05	<0.003U	<0.003U	-	<0.003U	<0.0032U	-	<0.0027U	<0.003U	-
	Benzene	mg/kg	0.0015	0.06	<0.0019U	<0.0019U	-	<0.0018U	<0.002U	-	<0.0017U	<0.0019U	-
	Carbon tetrachloride	mg/kg	0.0025	0.76	<0.0031U	<0.0032U	-	<0.0031U	<0.0033U	-	<0.0028U	<0.0032U	-
	Chlorobenzene	mg/kg	0.0012	1.1	<0.0015U	<0.0015U	-	<0.0015U	<0.0016U	-	<0.0013U	<0.0015U	-
	Chloroform	mg/kg	0.0016	0.37	<0.002U	<0.002U	-	<0.002U	<0.0021U	-	<0.0018U	<0.002U	-
	cis-1,2-dichloroethene	mg/kg	0.0012	0.25	<0.0015U	<0.0015U	-	<0.0015U	<0.0016U	-	<0.0013U	<0.0015U	-
	Dichloromethane	mg/kg	0.0018	0.05	<0.0022U	<0.0022U	-	<0.0022U	<0.0024U	-	<0.002U	<0.0023U	-
	Ethylbenzene	mg/kg	0.0016	1	<0.002U	<0.0021U	-	<0.002U	<0.0022U	-	<0.0018U	<0.0021U	-
	Methyl-tert-butyl ether	mg/kg	0.0028	0.93	<0.0035U	<0.0035U	-	<0.0035U	<0.0037U	-	<0.0031U	<0.0035U	-
	n-butylbenzene	mg/kg	0.0029	12	<0.0036U	<0.0036U	-	<0.0036U	<0.0038U	-	<0.0032U	<0.0036U	-
	n-propylbenzene	mg/kg	0.0016	3.9	<0.002U	<0.002U	-	<0.002U	<0.0021U	-	<0.0018U	<0.002U	-
	sec-butylbenzene	mg/kg	0.0018	11	<0.0023U	<0.0023U	-	<0.0023U	<0.0025U	-	<0.0021U	<0.0023U	-
	Trichloroethene	mg/kg	0.0011	0.47	<0.0014U	<0.0014U	-	<0.0014U	<0.0015U	-	<0.0013U	<0.0014U	-
	tert-butylbenzene	mg/kg	0.0014	5.9	<0.0017U	<0.0017U	-	<0.0017U	<0.0018U	-	<0.0016U	<0.0018U	-
	Tetrachloroethene	mg/kg	0.0015	1.3	<0.0019U	<0.0019U	-	<0.0019U	<0.002U	-	<0.0017U	<0.0019U	-
	Toluene	mg/kg	0.0013	0.7	<0.0016U	<0.0016U	-	<0.0016U	<0.0017U	-	<0.0014U	<0.0016U	-
	trans-1,2-dichloroethene	mg/kg	0.0019	0.19	<0.0024U	<0.0024U	-	<0.0024U	<0.0026U	-	<0.0022U	<0.0024U	-
	Vinyl chloride	mg/kg	0.0028	0.02	<0.0035U	<0.0035U	-	<0.0034U	<0.0037U	-	<0.0031U	<0.0035U	-
	Xylene Total	mg/kg	0.0032	1.6	<0.0041U	<0.0041U	-	<0.004U	<0.0043U	-	<0.0037U	<0.0041U	-

TABLE 1

Request for Reuse - Summary of Analytical Results
Former Sperry Remington Site - North Portion
Elmira, New York

				Field_ID	WB3-4, S1, A 072817	WB3-4, S1, B 072817	WB3-4, S1, C 072817	WB3-4, S2, A 072817	WB3-4, S2, B 072817	WB3-4, S2, C 072817	WB3-4, S3, A 072817	WB3-4, S3, B 072817	WB3-4, S3, C 072817	W5-b, S5, A 08.04.17	W5-b, S5, B 08.04.17	W5-b, S5, C 08.04.17
				Sample Date	7/28/2017	7/28/2017	7/28/2017	7/28/2017	7/28/2017	7/28/2017	7/28/2017	7/28/2017	7/28/2017	8/4/2017	8/4/2017	8/4/2017
				Lab_Report_Number	180-68716-1	180-68716-1	180-68716-1	180-68716-1	180-68716-1	180-68716-1	180-68716-1	180-68716-1	180-68716-1	180-68986-1	180-68986-1	180-68986-1
				..												
Group	**Analyte**	**Units**	**EQL**													
PCBs	Arochlor 1016	mg/kg	0.0092	0	-	-	<0.0096U	-	-	<0.0096U	-	-	<0.0098U	-	-	<0.049U
	Arochlor 1221	mg/kg	0.009	0	-	-	<0.0094U	-	-	<0.0094U	-	-	<0.0096U	-	-	<0.048U
	Arochlor 1232	mg/kg	0.0069	0	-	-	<0.0072U	-	-	<0.0072U	-	-	<0.0073U	-	-	<0.037U
	Arochlor 1242	mg/kg	0.014	0	-	-	<0.014U	-	-	<0.014U	-	-	<0.015U	-	-	<0.073U
	Arochlor 1248	mg/kg	0.017	0	-	-	0.78J	-	-	4.4J	-	-	2.4J	-	-	6.5J
	Arochlor 1254	mg/kg	0.017	0	-	-	0.29J	-	-	1.4J	-	-	0.84J	-	-	2.2J
	Arochlor 1260	mg/kg	0.012	0	-	-	0.049J	-	-	0.18J	-	-	0.099J	-	-	0.34J
	Arochlor 1268	mg/kg	0.0053	0	-	-	<0.0055U	-	-	<0.0055U	-	-	<0.0056U	-	-	<0.028U
	Arochlor 1262	mg/kg	0.012	0	-	-	<0.013U	-	-	<0.013U	-	-	<0.013U	-	-	<0.066U
	Total PCBs	mg/kg		1	-	-	1.119	-	-	5.98	-	-	3.339	-	-	9.04
SVOCs	1,4-Dioxane	mg/kg	0.0053	0.1	-	-	<0.022U	-	-	<0.0056U	-	-	<0.0057U	-	-	<0.0056U
	2,4,5-trichlorophenol	mg/kg	0.0034	0	-	-	<0.014U	-	-	<0.0035U	-	-	<0.0036U	-	-	<0.0035U
	2,4,6-trichlorophenol	mg/kg	0.0031	0	-	-	<0.013U	-	-	<0.0032U	-	-	<0.0033U	-	-	<0.0032U
	2,4-Dinitrotoluene	mg/kg	0.0047	0	-	-	<0.019U	-	-	<0.0049U	-	-	<0.005U	-	-	<0.0049U
	2-methylphenol	mg/kg	0.0031	0.33	-	-	<0.013U	-	-	<0.0033U	-	-	<0.0033U	-	-	<0.0033U
	4-methylphenol	mg/kg	0.0031	0.33	-	-	0.025J	-	-	<0.0033U	-	-	<0.0033U	-	-	<0.0033U
	Acenaphthene	mg/kg	0.0024	98	-	-	0.15J	-	-	0.007J	-	-	0.0041J	-	-	0.0046J
	Acenaphthylene	mg/kg	0.0071	100	-	-	0.82J	-	-	0.033	-	-	0.018	-	-	0.012
	Anthracene	mg/kg	0.0071	100	-	-	2.6J	-	-	0.043	-	-	0.027	-	-	0.019
	Benz(a)anthracene	mg/kg	0.0071	1	-	-	4.9J	-	-	0.23	-	-	0.12	-	-	0.08
	Benzo(a) pyrene	mg/kg	0.0071	1	-	-	3.6J	-	-	0.23	-	-	0.11	-	-	0.074
	Benzo(b)fluoranthene	mg/kg	0.0071	1	-	-	4.8J	-	-	0.3	-	-	0.18	-	-	0.1
	Benzo(g,h,i)perylene	mg/kg	0.0071	100	-	-	2.9J	-	-	0.23	-	-	0.11	-	-	0.074
	Benzo(k)fluoranthene	mg/kg	0.0071	1.7	-	-	1.5J	-	-	0.11	-	-	0.049	-	-	0.028
	Chrysene	mg/kg	0.0071	1	-	-	3.7J	-	-	0.22	-	-	0.13	-	-	0.09
	Dibenz(a,h)anthracene	mg/kg	0.0071	0.33	-	-	0.61J	-	-	0.042	-	-	0.024	-	-	0.019
	Dibenzofuran	mg/kg	0.014	59	-	-	0.54J	-	-	0.019J	-	-	0.014J	-	-	0.0062J
	Fluoranthene	mg/kg	0.0071	100	-	-	8.4J	-	-	0.32	-	-	0.18	-	-	0.16
	Fluorene	mg/kg	0.0026	100	-	-	0.4J	-	-	0.011	-	-	0.0066J	-	-	<0.0026U
	Hexachlorobenzene	mg/kg	0.0028	1.2	-	-	<0.012U	-	-	<0.003U	-	-	<0.003U	-	-	<0.003U
	Hexachlorobutadiene	mg/kg	0.0022	0	-	-	<0.0091U	-	-	<0.0023U	-	-	<0.0024U	-	-	<0.0023U
	Hexachloroethane	mg/kg	0.0025	0	-	-	<0.01U	-	-	<0.0027U	-	-	<0.0027U	-	-	<0.0027U
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.0071	0.5	-	-	2.6J	-	-	0.19	-	-	0.086	-	-	0.064
	Naphthalene	mg/kg	0.0071	12	-	-	0.73J	-	-	0.049	-	-	0.029	-	-	0.014
	Nitrobenzene	mg/kg	0.0027	0	-	-	<0.011U	-	-	<0.0028U	-	-	<0.0029U	-	-	<0.0028U
	Pentachlorophenol	mg/kg	0.067	0.8	-	-	<0.27U	-	-	<0.07U	-	-	<0.071U	-	-	<0.07U
	Phenanthrene	mg/kg	0.0071	100	-	-	8.3J	-	-	0.15	-	-	0.1	-	-	0.071
	Phenol	mg/kg	0.0048	0.33	-	-	0.022J	-	-	<0.005U	-	-	<0.0051U	-	-	<0.005U
	Pyrene	mg/kg	0.0071	100	-	-	9.3J	-	-	0.33	-	-	0.22	-	-	0.12
	Pyridine	mg/kg	0.0034	0	-	-	<0.014UJ	-	-	<0.0035U	-	-	<0.0036U	-	-	<0.0035U
Inorganics	Cyanide Total	mg/kg	0.14	27	-	-	1.1	-	-	1.9	-	-	1.3	-	-	2
Metals	Arsenic	mg/kg	1	16	-	-	7.8	-	-	7.8	-	-	7.1	-	-	6.5
	Barium	mg/kg	21	400	-	-	71	-	-	64	-	-	82	-	-	93
	Beryllium	mg/kg	0.42	47	-	-	0.33J	-	-	0.33J	-	-	0.37J	-	-	0.3J
	Cadmium	mg/kg	0.12	4.3	-	-	0.14J	-	-	0.13J	-	-	<0.13U	-	-	0.17J
	Chromium (III+VI)	mg/kg	0.52	19	-	-	10	-	-	8.8	-	-	9.6	-	-	11
	Copper	mg/kg	2.6	270	-	-	56J-	-	-	63	-	-	54	-	-	41
	Lead	mg/kg	1	400	-	-	55J+	-	-	37	-	-	73	-	-	91
	Manganese	mg/kg	1.6	2000	-	-	390	-	-	370	-	-	410	-	-	460
	Nickel	mg/kg	4.2	130	-	-	26	-	-	21	-	-	21	-	-	42
	Selenium	mg/kg	0.42	4	-	-	0.51J	-	-	<0.45U	-	-	<0.47U	-	-	<0.44U
	Silver	mg/kg	0.17	8.3	-	-	<0.19U	-	-	<0.19U	-	-	<0.2U	-	-	<0.19U
	Zinc	mg/kg	2.1	2480	-	-	65	-	-	55	-	-	62	-	-	73
	Mercury	mg/kg	0.028	0.73	-	-	0.037J+	-	-	0.029J	-	-	0.027J	-	-	0.058

TABLE 1

Request for Reuse - Summary of Analytical Results
Former Sperry Remington Site - North Portion
Elmira, New York

				Field_ID	WB3-4, S1, A 072817	WB3-4, S1, B 072817	WB3-4, S1, C 072817	WB3-4, S2, A 072817	WB3-4, S2, B 072817	WB3-4, S2, C 072817	WB3-4, S3, A 072817	WB3-4, S3, B 072817	WB3-4, S3, C 072817	W5-b, S5, A 08.04.17	W5-b, S5, B 08.04.17	W5-b, S5, C 08.04.17
				Sample Date	7/28/2017	7/28/2017	7/28/2017	7/28/2017	7/28/2017	7/28/2017	7/28/2017	7/28/2017	7/28/2017	8/4/2017	8/4/2017	8/4/2017
				Lab_Report_Number	180-68716-1	180-68716-1	180-68716-1	180-68716-1	180-68716-1	180-68716-1	180-68716-1	180-68716-1	180-68716-1	180-68986-1	180-68986-1	180-68986-1
				..												
Group	**Analyte**	**Units**	**EQL**													
VOCs	1,1,1-trichloroethane	mg/kg	0.0019	0.68	<0.0022U	<0.0025U	-	<0.0024U	<0.0021U	-	<0.0027U	<0.0022U	-	<0.0021U	<0.0025U	-
	1,1-dichloroethane	mg/kg	0.0014	0.27	<0.0016U	<0.0018U	-	<0.0017U	<0.0015U	-	<0.0019U	<0.0016U	-	<0.0015U	<0.0018U	-
	1,1-dichloroethene	mg/kg	0.0021	0.33	<0.0025U	<0.0029U	-	<0.0027U	<0.0024U	-	<0.003U	<0.0025U	-	<0.0024U	<0.0028U	-
	1,2,4-trimethylbenzene	mg/kg	0.001	3.6	<0.0012U	<0.0014U	-	<0.0013U	<0.0011U	-	<0.0014U	<0.0012U	-	<0.0011U	<0.0013U	-
	1,2-dichlorobenzene	mg/kg	0.003	1.1	<0.0036U	<0.0041U	-	<0.0039U	<0.0033U	-	<0.0043U	<0.0035U	-	<0.0033U	<0.004U	-
	1,2-dichloroethane	mg/kg	0.0011	0.02	<0.0013U	<0.0015U	-	<0.0014U	<0.0012U	-	<0.0015U	<0.0013U	-	<0.0012U	<0.0014U	-
	1,3,5-trimethylbenzene	mg/kg	0.0013	8.4	<0.0015U	<0.0017U	-	<0.0016U	<0.0014U	-	<0.0018U	<0.0015U	-	<0.0014U	<0.0017U	-
	1,3-dichlorobenzene	mg/kg	0.0012	2.4	<0.0014U	<0.0016U	-	<0.0015U	<0.0013U	-	<0.0017U	<0.0014U	-	<0.0013U	<0.0016U	-
	1,4-dichlorobenzene	mg/kg	0.00077	1.8	<0.00091U	<0.001U	-	<0.00098U	<0.00085U	-	<0.0011U	<0.00088U	-	<0.00085U	<0.001U	-
	Methyl Ethyl Ketone	mg/kg	0.0022	0.12	<0.0026U	<0.0029U	-	<0.0028U	<0.0024U	-	<0.0031U	<0.0025U	-	<0.0024U	<0.0029U	-
	Acetone	mg/kg	0.0024	0.05	<0.0028U	<0.0032U	-	<0.003U	<0.0026U	-	<0.0033U	<0.0027U	-	<0.0026U	<0.0031U	-
	Benzene	mg/kg	0.0015	0.06	<0.0017U	<0.002U	-	<0.0019U	<0.0016U	-	<0.0021U	<0.0017U	-	<0.0016U	<0.002U	-
	Carbon tetrachloride	mg/kg	0.0025	0.76	<0.003U	<0.0033U	-	<0.0032U	<0.0028U	-	<0.0035U	<0.0029U	-	<0.0027U	<0.0033U	-
	Chlorobenzene	mg/kg	0.0012	1.1	<0.0014U	<0.0016U	-	<0.0015U	<0.0013U	-	<0.0017U	<0.0014U	-	<0.0013U	<0.0016U	-
	Chloroform	mg/kg	0.0016	0.37	<0.0019U	<0.0021U	-	<0.002U	<0.0018U	-	<0.0022U	<0.0018U	-	<0.0018U	<0.0021U	-
	cis-1,2-dichloroethene	mg/kg	0.0012	0.25	<0.0014U	<0.0016U	-	<0.0015U	<0.0013U	-	<0.0017U	<0.0014U	-	<0.0013U	<0.0016U	-
	Dichloromethane	mg/kg	0.0018	0.05	<0.0021U	<0.0024U	-	<0.0023U	<0.002U	-	<0.0025U	<0.002U	-	<0.002U	<0.0023U	-
	Ethylbenzene	mg/kg	0.0016	1	<0.0019U	<0.0022U	-	<0.0021U	<0.0018U	-	<0.0023U	<0.0019U	-	<0.0018U	<0.0021U	-
	Methyl-tert-butyl ether	mg/kg	0.0028	0.93	<0.0033U	<0.0037U	-	<0.0035U	<0.0031U	-	<0.0039U	<0.0032U	-	<0.0031U	<0.0037U	-
	n-butylbenzene	mg/kg	0.0029	12	<0.0034U	<0.0038U	-	<0.0036U	<0.0031U	-	<0.004U	<0.0033U	-	<0.0031U	<0.0038U	-
	n-propylbenzene	mg/kg	0.0016	3.9	<0.0019U	<0.0021U	-	<0.002U	<0.0018U	-	<0.0022U	<0.0018U	-	<0.0017U	<0.0021U	-
	sec-butylbenzene	mg/kg	0.0018	11	<0.0022U	<0.0025U	-	<0.0023U	<0.002U	-	<0.0026U	<0.0021U	-	<0.002U	<0.0024U	-
	Trichloroethene	mg/kg	0.0011	0.47	<0.0013U	<0.0015U	-	<0.0014U	<0.0012U	-	<0.0016U	<0.0013U	-	<0.0012U	<0.0015U	-
	tert-butylbenzene	mg/kg	0.0014	5.9	<0.0016U	<0.0018U	-	<0.0018U	<0.0015U	-	<0.0019U	<0.0016U	-	<0.0015U	<0.0018U	-
	Tetrachloroethene	mg/kg	0.0015	1.3	<0.0018U	<0.002U	-	<0.0019U	<0.0017U	-	<0.0021U	<0.0017U	-	<0.0017U	<0.002U	-
	Toluene	mg/kg	0.0013	0.7	<0.0015U	<0.0017U	-	<0.0016U	<0.0014U	-	<0.0018U	<0.0015U	-	<0.0014U	<0.0017U	-
	trans-1,2-dichloroethene	mg/kg	0.0019	0.19	<0.0023U	<0.0026U	-	<0.0024U	<0.0021U	-	<0.0027U	<0.0022U	-	<0.0021U	<0.0025U	-
	Vinyl chloride	mg/kg	0.0028	0.02	<0.0033U	<0.0037U	-	<0.0035U	<0.003U	-	<0.0039U	<0.0032U	-	<0.003U	<0.0036U	-
	Xylene Total	mg/kg	0.0032	1.6	<0.0038U	<0.0043U	-	<0.0041U	<0.0036U	-	<0.0046U	<0.0037U	-	<0.0036U	<0.0043U	-

TABLE 1

Request for Reuse - Summary of Analytical Results
Former Sperry Remington Site - North Portion
Elmira, New York

				Field_ID	W6, S1, A 071317	W6, S1, B 071317	W6, S1, C 071317	W6, S2, A 071317	W6, S2, B 071317	W6, S2, C 071317	W6, S3, A 071317	W6, S3, B 071317	W6, S3, C 071317	W6, S4, A 071317	W6, S4, B 071317	W6, S4, C 071317	W6, S5, A 071317	W6, S5, B 071317	W6, S5, C 071317
				Sample Date	7/13/2017	7/13/2017	7/13/2017	7/13/2017	7/13/2017	7/13/2017	7/13/2017	7/13/2017	7/13/2017	7/13/2017	7/13/2017	7/13/2017	7/13/2017	7/13/2017	7/13/2017
				Lab_Report_Number	180-68219-1	180-68219-1	180-68219-1	180-68219-1	180-68219-1	180-68219-1	180-68219-1	180-68219-1	180-68219-1	180-68219-1	180-68219-1	180-68219-1	180-68219-1	180-68219-1	180-68219-1
				..															
Group	**Analyte**	**Units**	**EQL**																
PCBs	Arochlor 1016	mg/kg	0.0092	0	-	-	<0.0092U	-	-	<0.01U	-	-	<0.0098U	-	-	<0.0096U	-	-	<0.0096U
	Arochlor 1221	mg/kg	0.009	0	-	-	<0.009U	-	-	<0.0098U	-	-	<0.0096U	-	-	<0.0094U	-	-	<0.0094U
	Arochlor 1232	mg/kg	0.0069	0	-	-	<0.0069U	-	-	<0.0075U	-	-	<0.0073U	-	-	<0.0072U	-	-	<0.0072U
	Arochlor 1242	mg/kg	0.014	0	-	-	<0.014U	-	-	<0.015U	-	-	<0.015U	-	-	<0.014U	-	-	<0.014U
	Arochlor 1248	mg/kg	0.017	0	-	-	0.8J	-	-	1.8J	-	-	1.2J	-	-	1.5J	-	-	1.1J
	Arochlor 1254	mg/kg	0.017	0	-	-	0.47J	-	-	0.76J	-	-	0.55J	-	-	0.6J	-	-	0.35J
	Arochlor 1260	mg/kg	0.012	0	-	-	0.15J	-	-	0.33J	-	-	0.23J	-	-	0.22J	-	-	0.13J
	Arochlor 1268	mg/kg	0.0053	0	-	-	<0.0053U	-	-	<0.0058U	-	-	<0.0056U	-	-	<0.0055U	-	-	<0.0055U
	Arochlor 1262	mg/kg	0.012	0	-	-	<0.012U	-	-	<0.014U	-	-	<0.013U	-	-	<0.013U	-	-	<0.013U
	Total PCBs	mg/kg		1	-	-	1.42	-	-	2.89	-	-	1.98	-	-	2.32	-	-	1.58
SVOCs	1,4-Dioxane	mg/kg	0.0053	0.1	-	-	<0.016U	-	-	<0.017U	-	-	<0.056U	-	-	<0.022U	-	-	<0.021U
	2,4,5-trichlorophenol	mg/kg	0.0034	0	-	-	<0.01U	-	-	<0.011U	-	-	<0.036U	-	-	<0.014U	-	-	<0.013U
	2,4,6-trichlorophenol	mg/kg	0.0031	0	-	-	<0.0093U	-	-	<0.0098U	-	-	<0.033U	-	-	<0.013U	-	-	<0.012U
	2,4-Dinitrotoluene	mg/kg	0.0047	0	-	-	<0.014U	-	-	<0.015U	-	-	<0.049U	-	-	<0.019U	-	-	<0.019U
	2-methylphenol	mg/kg	0.0031	0.33	-	-	<0.0094U	-	-	<0.0099U	-	-	<0.033U	-	-	<0.013U	-	-	<0.012U
	4-methylphenol	mg/kg	0.0031	0.33	-	-	<0.0094U	-	-	<0.0099U	-	-	<0.033U	-	-	<0.013U	-	-	<0.013U
	Acenaphthene	mg/kg	0.0024	98	-	-	0.01J	-	-	<0.0075U	-	-	<0.025U	-	-	<0.0098U	-	-	<0.0095U
	Acenaphthylene	mg/kg	0.0071	100	-	-	0.15	-	-	0.051	-	-	0.13	-	-	0.055	-	-	0.032
	Anthracene	mg/kg	0.0071	100	-	-	0.17J	-	-	0.078	-	-	0.075	-	-	0.052	-	-	0.066
	Benz(a)anthracene	mg/kg	0.0071	1	-	-	0.48J	-	-	0.26	-	-	0.32J	-	-	0.16	-	-	0.19
	Benzo(a) pyrene	mg/kg	0.0071	1	-	-	0.46J	-	-	0.24	-	-	0.33J	-	-	0.15	-	-	0.17
	Benzo(b)fluoranthene	mg/kg	0.0071	1	-	-	0.55J	-	-	0.28	-	-	0.38J	-	-	0.19	-	-	0.25
	Benzo(g,h,i)perylene	mg/kg	0.0071	100	-	-	0.49J	-	-	0.23	-	-	0.24	-	-	0.16	-	-	0.19
	Benzo(k)fluoranthene	mg/kg	0.0071	1.7	-	-	0.24	-	-	0.12	-	-	0.15	-	-	0.073	-	-	0.05
	Chrysene	mg/kg	0.0071	1	-	-	0.46J	-	-	0.24	-	-	0.31J	-	-	0.16	-	-	0.18
	Dibenz(a,h)anthracene	mg/kg	0.0071	0.33	-	-	0.12	-	-	0.052	-	-	0.067J	-	-	0.04	-	-	0.045
	Dibenzofuran	mg/kg	0.014	59	-	-	0.029J	-	-	0.014J	-	-	<0.03U	-	-	0.02J	-	-	0.014J
	Fluoranthene	mg/kg	0.0071	100	-	-	0.94J	-	-	0.41	-	-	0.38	-	-	0.22	-	-	0.33
	Fluorene	mg/kg	0.0026	100	-	-	0.027	-	-	0.012J	-	-	0.029J	-	-	0.011J	-	-	0.012J
	Hexachlorobenzene	mg/kg	0.0028	1.2	-	-	<0.0085U	-	-	<0.009U	-	-	<0.03U	-	-	<0.012U	-	-	<0.011U
	Hexachlorobutadiene	mg/kg	0.0022	0	-	-	<0.0067U	-	-	<0.0071U	-	-	<0.024U	-	-	<0.0092U	-	-	<0.0089U
	Hexachloroethane	mg/kg	0.0025	0	-	-	<0.0076U	-	-	<0.008U	-	-	<0.027U	-	-	<0.01U	-	-	<0.01U
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.0071	0.5	-	-	0.41	-	-	0.2	-	-	0.2	-	-	0.13	-	-	0.15
	Naphthalene	mg/kg	0.0071	12	-	-	0.12	-	-	0.049	-	-	0.058J	-	-	0.053	-	-	0.039
	Nitrobenzene	mg/kg	0.0027	0	-	-	<0.0081U	-	-	<0.0085U	-	-	<0.029U	-	-	<0.011U	-	-	<0.011U
	Pentachlorophenol	mg/kg	0.067	0.8	-	-	<0.2UJ	-	-	<0.21U	-	-	<0.71U	-	-	<0.28U	-	-	<0.27U
	Phenanthrene	mg/kg	0.0071	100	-	-	0.37J	-	-	0.26	-	-	0.16	-	-	0.14	-	-	0.17
	Phenol	mg/kg	0.0048	0.33	-	-	<0.014U	-	-	<0.015U	-	-	<0.05U	-	-	<0.02U	-	-	<0.019U
	Pyrene	mg/kg	0.0071	100	-	-	0.69J	-	-	0.42	-	-	0.4	-	-	0.24	-	-	0.3
	Pyridine	mg/kg	0.0034	0	-	-	<0.01U,F1,F2	-	-	<0.011U	-	-	<0.036U	-	-	<0.014U,F1	-	-	<0.014U
Inorganics	Cyanide Total	mg/kg	0.14	27	-	-	<0.14U	-	-	<0.17U	-	-	<0.16U	-	-	<0.16U	-	-	<0.15U
Metals	Arsenic	mg/kg	1	16	-	-	6.6	-	-	6.7	-	-	12J	-	-	7.6	-	-	5.8
	Barium	mg/kg	21	400	-	-	85	-	-	74	-	-	99J	-	-	80	-	-	250
	Beryllium	mg/kg	0.42	47	-	-	0.36J	-	-	0.38J	-	-	0.47	-	-	0.41J	-	-	0.23J
	Cadmium	mg/kg	0.12	4.3	-	-	0.16J	-	-	0.14J	-	-	0.17J	-	-	0.16J	-	-	<0.12U
	Chromium (III+VI)	mg/kg	0.52	19	-	-	9.1	-	-	9.9	-	-	12J	-	-	9.5	-	-	6
	Copper	mg/kg	2.6	270	-	-	20	-	-	21	-	-	24	-	-	23	-	-	17
	Lead	mg/kg	1	400	-	-	31	-	-	32	-	-	36	-	-	35	-	-	18
	Manganese	mg/kg	1.6	2000	-	-	370	-	-	530	-	-	510J	-	-	410	-	-	390
	Nickel	mg/kg	4.2	130	-	-	17	-	-	19	-	-	22J	-	-	18	-	-	13
	Selenium	mg/kg	0.42	4	-	-	<0.42U	-	-	<0.43U	-	-	<0.44U	-	-	0.83J	-	-	1.3
	Silver	mg/kg	0.17	8.3	-	-	<0.17U	-	-	<0.18U	-	-	<0.18U	-	-	<0.19U	-	-	<0.18U
	Zinc	mg/kg	2.1	2480	-	-	69	-	-	81	-	-	76J	-	-	62	-	-	42
	Mercury	mg/kg	0.028	0.73	-	-	0.12J	-	-	0.22	-	-	0.11	-	-	0.22	-	-	0.083

TABLE 1

Request for Reuse - Summary of Analytical Results
Former Sperry Remington Site - North Portion
Elmira, New York

				Field_ID	W6, S1, A 071317	W6, S1, B 071317	W6, S1, C 071317	W6, S2, A 071317	W6, S2, B 071317	W6, S2, C 071317	W6, S3, A 071317	W6, S3, B 071317	W6, S3, C 071317	W6, S4, A 071317	W6, S4, B 071317	W6, S4, C 071317	W6, S5, A 071317	W6, S5, B 071317	W6, S5, C 071317
				Sample Date	7/13/2017	7/13/2017	7/13/2017	7/13/2017	7/13/2017	7/13/2017	7/13/2017	7/13/2017	7/13/2017	7/13/2017	7/13/2017	7/13/2017	7/13/2017	7/13/2017	7/13/2017
				Lab_Report_Number	180-68219-1	180-68219-1	180-68219-1	180-68219-1	180-68219-1	180-68219-1	180-68219-1	180-68219-1	180-68219-1	180-68219-1	180-68219-1	180-68219-1	180-68219-1	180-68219-1	180-68219-1
				..															
Group	Analyte	Units	EQL																
VOCs	1,1,1-trichloroethane	mg/kg	0.0019	0.68	<0.0023U	<0.0024U	-	<0.0026U	<0.0023U	-	<0.0024U	<0.0022U	-	<0.0023U	<0.0022U	-	<0.0025U	<0.0022U	-
	1,1-dichloroethane	mg/kg	0.0014	0.27	<0.0017U	<0.0017U	-	<0.0019U	<0.0017U	-	<0.0017U	<0.0016U	-	<0.0016U	<0.0016U	-	<0.0018U	<0.0016U	-
	1,1-dichloroethene	mg/kg	0.0021	0.33	<0.0026U	<0.0027U	-	<0.003U	<0.0026U	-	<0.0028U	<0.0025U	-	<0.0026U	<0.0025U	-	<0.0028U	<0.0025U	-
	1,2,4-trimethylbenzene	mg/kg	0.001	3.6	<0.0012U	<0.0013U	-	<0.0014U	<0.0012U	-	<0.0013U	<0.0012U	-	<0.0012U	<0.0012U	-	<0.0013U	<0.0012U	-
	1,2-dichlorobenzene	mg/kg	0.003	1.1	<0.0037U	<0.0038U	-	<0.0042U	<0.0037U	-	<0.0039U	<0.0035U	-	<0.0036U	<0.0035U	-	<0.0039U	<0.0035U	-
	1,2-dichloroethane	mg/kg	0.0011	0.02	<0.0013U	<0.0014U	-	<0.0015U	<0.0013U	-	<0.0014U	<0.0013U	-	<0.0013U	<0.0013U	-	<0.0014U	<0.0013U	-
	1,3,5-trimethylbenzene	mg/kg	0.0013	8.4	<0.0016U	<0.0016U	-	<0.0018U	<0.0016U	-	<0.0017U	<0.0015U	-	<0.0016U	<0.0015U	-	<0.0017U	<0.0015U	-
	1,3-dichlorobenzene	mg/kg	0.0012	2.4	<0.0015U	<0.0015U	-	<0.0017U	<0.0015U	-	<0.0015U	<0.0014U	-	<0.0014U	<0.0014U	-	<0.0016U	<0.0014U	-
	1,4-dichlorobenzene	mg/kg	0.00077	1.8	<0.00094U	<0.00097U	-	<0.0011U	<0.00093U	-	<0.00098U	<0.00088U	-	<0.00092U	<0.00088U	-	<0.001U	<0.00089U	-
	Methyl Ethyl Ketone	mg/kg	0.0022	0.12	<0.0027U	<0.0028U	-	<0.003U	<0.0026U	-	<0.0028U	<0.0025U	-	<0.0026U	<0.0025U	-	<0.0028U	<0.0025U	-
	Acetone	mg/kg	0.0024	0.05	<0.0029U	<0.003U	-	<0.0033U	<0.0029U	-	<0.003U	<0.0027U	-	<0.0029U	<0.0027U	-	<0.0031U	<0.0028U	-
	Benzene	mg/kg	0.0015	0.06	<0.0018U	<0.0019U	-	<0.002U	<0.0018U	-	<0.0019U	<0.0017U	-	<0.0018U	<0.0017U	-	<0.0019U	<0.0017U	-
	Carbon tetrachloride	mg/kg	0.0025	0.76	<0.003U	<0.0032U	-	<0.0034U	<0.003U	-	<0.0032U	<0.0029U	-	<0.003U	<0.0029U	-	<0.0032U	<0.0029U	-
	Chlorobenzene	mg/kg	0.0012	1.1	<0.0014U	<0.0015U	-	<0.0016U	<0.0014U	-	<0.0015U	<0.0014U	-	<0.0014U	<0.0014U	-	<0.0015U	<0.0014U	-
	Chloroform	mg/kg	0.0016	0.37	<0.0019U	<0.002U	-	<0.0022U	<0.0019U	-	<0.002U	<0.0018U	-	<0.0019U	<0.0018U	-	<0.0021U	<0.0018U	-
	cis-1,2-dichloroethene	mg/kg	0.0012	0.25	<0.0014U	<0.0015U	-	<0.0016U	<0.0014U	-	<0.0015U	<0.0014U	-	<0.0014U	<0.0014U	-	<0.0015U	<0.0014U	-
	Dichloromethane	mg/kg	0.0018	0.05	<0.0022U	<0.0023U	-	<0.0025U	<0.0022U	-	0.0024J	<0.002U	-	<0.0021U	<0.002U	-	<0.0023U	<0.0021U	-
	Ethylbenzene	mg/kg	0.0016	1	<0.002U	<0.0021U	-	<0.0022U	<0.002U	-	<0.0021U	<0.0019U	-	<0.002U	<0.0019U	-	<0.0021U	<0.0019U	-
	Methyl-tert-butyl ether	mg/kg	0.0028	0.93	<0.0034U	<0.0035U	-	<0.0038U	<0.0034U	-	<0.0036U	<0.0032U	-	<0.0033U	<0.0032U	-	<0.0036U	<0.0032U	-
	n-butylbenzene	mg/kg	0.0029	12	<0.0035U	<0.0036U	-	<0.0039U	<0.0035U	-	<0.0037U	<0.0033U	-	<0.0034U	<0.0033U	-	<0.0037U	<0.0033U	-
	n-propylbenzene	mg/kg	0.0016	3.9	<0.0019U	<0.002U	-	<0.0022U	<0.0019U	-	<0.002U	<0.0018U	-	<0.0019U	<0.0018U	-	<0.0021U	<0.0018U	-
	sec-butylbenzene	mg/kg	0.0018	11	<0.0022U	<0.0023U	-	<0.0025U	<0.0022U	-	<0.0024U	<0.0021U	-	<0.0022U	<0.0021U	-	<0.0024U	<0.0021U	-
	Trichloroethene	mg/kg	0.0011	0.47	<0.0014U	<0.0014U	-	<0.0016U	<0.0014U	-	<0.0015U	<0.0013U	-	<0.0014U	<0.0013U	-	<0.0015U	<0.0013U	-
	tert-butylbenzene	mg/kg	0.0014	5.9	<0.0017U	<0.0017U	-	<0.0019U	<0.0017U	-	<0.0018U	<0.0016U	-	<0.0017U	<0.0016U	-	<0.0018U	<0.0016U	-
	Tetrachloroethene	mg/kg	0.0015	1.3	<0.0018U	<0.0019U	-	<0.0021U	<0.0018U	-	<0.0019U	<0.0017U	-	<0.0018U	<0.0017U	-	<0.002U	<0.0017U	-
	Toluene	mg/kg	0.0013	0.7	<0.0015U	<0.0016U	-	<0.0018U	<0.0015U	-	<0.0016U	<0.0015U	-	<0.0015U	<0.0015U	-	<0.0016U	<0.0015U	-
	trans-1,2-dichloroethene	mg/kg	0.0019	0.19	<0.0023U	<0.0024U	-	<0.0026U	<0.0023U	-	<0.0024U	<0.0022U	-	<0.0023U	<0.0022U	-	<0.0025U	<0.0022U	-
	Vinyl chloride	mg/kg	0.0028	0.02	<0.0034U	<0.0035U	-	<0.0038U	<0.0034U	-	<0.0035U	<0.0032U	-	<0.0033U	<0.0032U	-	<0.0036U	<0.0032U	-
	Xylene Total	mg/kg	0.0032	1.6	<0.0039U	<0.0041U	-	<0.0045U	<0.0039U	-	<0.0042U	<0.0037U	-	<0.0039U	<0.0037U	-	<0.0042U	<0.0038U	-

TABLE 1

Request for Reuse - Summary of Analytical Results
Former Sperry Remington Site - North Portion
Elmira, New York

				Field_ID	WB6-7, S1, A 72517	WB6-7, S1, B 72517	WB6-7, S1, C 72517	WB6-7, S2, A 72517	WB6-7, S2, B 72517	WB6-7, S2, C 72517	WB6-7, S3, A 072617	WB6-7, S3, B 072617	WB6-7, S3, C 072617	WB6-7, S4, A 072617	WB6-7, S4, B 072617	WB6-7, S4, C 072617
				Sample Date	7/25/2017	7/25/2017	7/25/2017	7/25/2017	7/25/2017	7/25/2017	7/26/2017	7/26/2017	7/26/2017	7/26/2017	7/26/2017	7/26/2017
				Lab_Report_Number	180-68556-1	180-68556-1	180-68556-1	180-68556-1	180-68556-1	180-68556-1	180-68622-1	180-68622-1	180-68622-1	180-68622-1	180-68622-1	180-68622-1
				..												
Group	**Analyte**	**Units**	**EQL**													
PCBs	Arochlor 1016	mg/kg	0.0092	0	-	-	<0.011U	-	-	<0.011U	-	-	<0.01U	-	-	<0.01U
	Arochlor 1221	mg/kg	0.009	0	-	-	<0.011U	-	-	<0.011U	-	-	<0.01U	-	-	<0.0098U
	Arochlor 1232	mg/kg	0.0069	0	-	-	<0.0085U	-	-	<0.0081U	-	-	<0.0077U	-	-	<0.0075U
	Arochlor 1242	mg/kg	0.014	0	-	-	<0.017U	-	-	<0.016U	-	-	<0.015U	-	-	<0.015U
	Arochlor 1248	mg/kg	0.017	0	-	-	0.78J	-	-	0.98J	-	-	0.4J	-	-	0.76J
	Arochlor 1254	mg/kg	0.017	0	-	-	0.29J	-	-	0.43J	-	-	0.19J	-	-	0.34J
	Arochlor 1260	mg/kg	0.012	0	-	-	0.041J	-	-	0.059J	-	-	0.041J	-	-	0.068J
	Arochlor 1268	mg/kg	0.0053	0	-	-	<0.0066U	-	-	<0.0062U	-	-	<0.0059U	-	-	<0.0058U
	Arochlor 1262	mg/kg	0.012	0	-	-	<0.015U	-	-	<0.015U	-	-	<0.014U	-	-	<0.014U
	Total PCBs	mg/kg		1	-	-	1.111	-	-	1.469	-	-	0.631	-	-	1.168
SVOCs	1,4-Dioxane	mg/kg	0.0053	0.1	-	-	<0.0065U	-	-	<0.0061U	-	-	<0.0058U	-	-	<0.0057U
	2,4,5-trichlorophenol	mg/kg	0.0034	0	-	-	<0.0041U	-	-	<0.0039U	-	-	<0.0037U	-	-	<0.0036U
	2,4,6-trichlorophenol	mg/kg	0.0031	0	-	-	<0.0038U	-	-	<0.0036U	-	-	<0.0034U	-	-	<0.0033U
	2,4-Dinitrotoluene	mg/kg	0.0047	0	-	-	<0.0057U	-	-	<0.0054U	-	-	<0.0051U	-	-	<0.005U
	2-methylphenol	mg/kg	0.0031	0.33	-	-	<0.0038U	-	-	<0.0036U	-	-	<0.0034U	-	-	<0.0033U
	4-methylphenol	mg/kg	0.0031	0.33	-	-	0.0091J	-	-	0.0055J	-	-	<0.0034U	-	-	0.0062J
	Acenaphthene	mg/kg	0.0024	98	-	-	0.0044J	-	-	0.032	-	-	0.027	-	-	0.026
	Acenaphthylene	mg/kg	0.0071	100	-	-	0.04	-	-	0.042	-	-	0.04	-	-	0.032
	Anthracene	mg/kg	0.0071	100	-	-	0.035	-	-	0.1	-	-	0.082	-	-	0.1
	Benz(a)anthracene	mg/kg	0.0071	1	-	-	0.12	-	-	0.24	-	-	0.27	-	-	0.22
	Benzo(a) pyrene	mg/kg	0.0071	1	-	-	0.13	-	-	0.23	-	-	0.27	-	-	0.2
	Benzo(b)fluoranthene	mg/kg	0.0071	1	-	-	0.18	-	-	0.28	-	-	0.34	-	-	0.23
	Benzo(g,h,i)perylene	mg/kg	0.0071	100	-	-	0.15	-	-	0.24	-	-	0.26	-	-	0.22
	Benzo(k)fluoranthene	mg/kg	0.0071	1.7	-	-	0.067	-	-	0.12	-	-	0.14	-	-	0.12
	Chrysene	mg/kg	0.0071	1	-	-	0.15	-	-	0.27	-	-	0.31	-	-	0.24
	Dibenz(a,h)anthracene	mg/kg	0.0071	0.33	-	-	0.032	-	-	0.054	-	-	0.057	-	-	0.05
	Dibenzofuran	mg/kg	0.014	59	-	-	0.0078J	-	-	0.023J	-	-	0.02J	-	-	0.048
	Fluoranthene	mg/kg	0.0071	100	-	-	0.21	-	-	0.51	-	-	0.5	-	-	0.48
	Fluorene	mg/kg	0.0026	100	-	-	0.0081J	-	-	0.032	-	-	0.029	-	-	0.043
	Hexachlorobenzene	mg/kg	0.0028	1.2	-	-	<0.0035U	-	-	<0.0033U	-	-	<0.0031U	-	-	<0.003U
	Hexachlorobutadiene	mg/kg	0.0022	0	-	-	<0.0027U	-	-	<0.0026U	-	-	<0.0024U	-	-	<0.0024U
	Hexachloroethane	mg/kg	0.0025	0	-	-	<0.0031U	-	-	<0.0029U	-	-	<0.0028U	-	-	<0.0027U
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.0071	0.5	-	-	0.12	-	-	0.2	-	-	0.22	-	-	0.18
	Naphthalene	mg/kg	0.0071	12	-	-	0.018	-	-	0.028	-	-	0.023	-	-	0.04
	Nitrobenzene	mg/kg	0.0027	0	-	-	<0.0033U	-	-	<0.0031U	-	-	<0.003U	-	-	<0.0029U
	Pentachlorophenol	mg/kg	0.067	0.8	-	-	<0.082U	-	-	<0.077U	-	-	<0.073U	-	-	<0.071U
	Phenanthrene	mg/kg	0.0071	100	-	-	0.075	-	-	0.31	-	-	0.23	-	-	0.25
	Phenol	mg/kg	0.0048	0.33	-	-	<0.0058U	-	-	<0.0055U	-	-	<0.0052U	-	-	<0.0051U
	Pyrene	mg/kg	0.0071	100	-	-	0.16	-	-	0.38	-	-	0.4	-	-	0.38
	Pyridine	mg/kg	0.0034	0	-	-	<0.0041U	-	-	<0.0039U	-	-	<0.0037U	-	-	<0.0036U
Inorganics	Cyanide Total	mg/kg	0.14	27	-	-	0.47J	-	-	0.29J	-	-	0.37J	-	-	0.48J
Metals	Arsenic	mg/kg	1	16	-	-	4.7	-	-	7.1	-	-	5.8	-	-	7.2
	Barium	mg/kg	21	400	-	-	72	-	-	68	-	-	100	-	-	160
	Beryllium	mg/kg	0.42	47	-	-	0.27J	-	-	0.31J	-	-	0.34J	-	-	0.35J
	Cadmium	mg/kg	0.12	4.3	-	-	0.21J	-	-	0.16J	-	-	0.2J	-	-	0.19J
	Chromium (III+VI)	mg/kg	0.52	19	-	-	8.2	-	-	10	-	-	11	-	-	15
	Copper	mg/kg	2.6	270	-	-	23	-	-	35	-	-	49	-	-	120
	Lead	mg/kg	1	400	-	-	23	-	-	28	-	-	64	-	-	110
	Manganese	mg/kg	1.6	2000	-	-	400	-	-	400	-	-	390	-	-	390
	Nickel	mg/kg	4.2	130	-	-	16	-	-	18	-	-	24	-	-	46
	Selenium	mg/kg	0.42	4	-	-	<0.51U	-	-	<0.48U	-	-	<0.49U	-	-	0.88J
	Silver	mg/kg	0.17	8.3	-	-	<0.21U	-	-	<0.2U	-	-	<0.21U	-	-	<0.18U
	Zinc	mg/kg	2.1	2480	-	-	53	-	-	55	-	-	68	-	-	90
	Mercury	mg/kg	0.028	0.73	-	-	0.035J	-	-	0.033J	-	-	0.035J	-	-	0.058

TABLE 1

Request for Reuse - Summary of Analytical Results
Former Sperry Remington Site - North Portion
Elmira, New York

				Field_ID	WB6-7, S1, A 72517	WB6-7, S1, B 72517	WB6-7, S1, C 72517	WB6-7, S2, A 72517	WB6-7, S2, B 72517	WB6-7, S2, C 72517	WB6-7, S3, A 072617	WB6-7, S3, B 072617	WB6-7, S3, C 072617	WB6-7, S4, A 072617	WB6-7, S4, B 072617	WB6-7, S4, C 072617
				Sample Date	7/25/2017	7/25/2017	7/25/2017	7/25/2017	7/25/2017	7/25/2017	7/26/2017	7/26/2017	7/26/2017	7/26/2017	7/26/2017	7/26/2017
				Lab_Report_Number	180-68556-1	180-68556-1	180-68556-1	180-68556-1	180-68556-1	180-68556-1	180-68622-1	180-68622-1	180-68622-1	180-68622-1	180-68622-1	180-68622-1
				..												
Group	**Analyte**	**Units**	**EQL**													
VOCs	1,1,1-trichloroethane	mg/kg	0.0019	0.68	<0.0033U	<0.0036U	-	<0.0026U	<0.002U	-	<0.0019U	<0.0025U	-	<0.002U	<0.0021U	-
	1,1-dichloroethane	mg/kg	0.0014	0.27	<0.0024U	<0.0026U	-	<0.0019U	<0.0014U	-	<0.0014U	<0.0018U	-	<0.0015U	<0.0015U	-
	1,1-dichloroethene	mg/kg	0.0021	0.33	<0.0037U	<0.0041U	-	<0.003U	<0.0023U	-	<0.0022U	<0.0029U	-	<0.0023U	<0.0023U	-
	1,2,4-trimethylbenzene	mg/kg	0.001	3.6	<0.0018U	<0.0019U	-	<0.0014U	<0.0011U	-	<0.001U	<0.0014U	-	<0.0011U	<0.0011U	-
	1,2-dichlorobenzene	mg/kg	0.003	1.1	<0.0053U	<0.0057U	-	<0.0042U	<0.0032U	-	<0.0031U	<0.004U	-	<0.0032U	<0.0033U	-
	1,2-dichloroethane	mg/kg	0.0011	0.02	<0.0019U	<0.0021U	-	<0.0015U	<0.0011U	-	<0.0011U	<0.0015U	-	<0.0012U	<0.0012U	-
	1,3,5-trimethylbenzene	mg/kg	0.0013	8.4	<0.0023U	<0.0025U	-	<0.0018U	<0.0014U	-	<0.0013U	<0.0017U	-	<0.0014U	<0.0014U	-
	1,3-dichlorobenzene	mg/kg	0.0012	2.4	<0.0021U	<0.0023U	-	<0.0017U	<0.0013U	-	<0.0012U	<0.0016U	-	<0.0013U	<0.0013U	-
	1,4-dichlorobenzene	mg/kg	0.00077	1.8	<0.0013U	<0.0015U	-	<0.0011U	<0.00081U	-	<0.00079U	<0.001U	-	<0.00082U	<0.00083U	-
	Methyl Ethyl Ketone	mg/kg	0.0022	0.12	<0.0038U	<0.0041U	-	<0.0031U	<0.0023U	-	<0.0022U	<0.0029U	-	<0.0023U	<0.0024U	-
	Acetone	mg/kg	0.0024	0.05	<0.0041U	<0.0045U	-	<0.0033U	<0.0025U	-	<0.0024U	<0.0032U	-	<0.016U	<0.016U	-
	Benzene	mg/kg	0.0015	0.06	<0.0026U	<0.0028U	-	<0.0021U	<0.0016U	-	<0.0015U	<0.002U	-	<0.0016U	<0.0016U	-
	Carbon tetrachloride	mg/kg	0.0025	0.76	<0.0043U	<0.0047U	-	<0.0035U	<0.0026U	-	<0.0026U	<0.0033U	-	<0.0027U	<0.0027U	-
	Chlorobenzene	mg/kg	0.0012	1.1	<0.0021U	<0.0022U	-	<0.0017U	<0.0012U	-	<0.0012U	<0.0016U	-	<0.0013U	<0.0013U	-
	Chloroform	mg/kg	0.0016	0.37	<0.0028U	<0.003U	-	<0.0022U	<0.0017U	-	<0.0016U	<0.0021U	-	<0.0017U	<0.0017U	-
	cis-1,2-dichloroethene	mg/kg	0.0012	0.25	<0.0021U	<0.0022U	-	<0.0017U	<0.0012U	-	<0.0012U	<0.0016U	-	<0.0013U	<0.0013U	-
	Dichloromethane	mg/kg	0.0018	0.05	<0.0031U	<0.0034U	-	<0.0025U	<0.0019U	-	<0.0018U	<0.0024U	-	<0.0019U	<0.0019U	-
	Ethylbenzene	mg/kg	0.0016	1	<0.0028U	<0.0031U	-	<0.0023U	<0.0017U	-	<0.0017U	<0.0022U	-	<0.0017U	<0.0018U	-
	Methyl-tert-butyl ether	mg/kg	0.0028	0.93	<0.0048U	<0.0053U	-	<0.0039U	<0.0029U	-	<0.0028U	<0.0037U	-	<0.003U	<0.003U	-
	n-butylbenzene	mg/kg	0.0029	12	<0.005U	<0.0054U	-	<0.004U	<0.003U	-	<0.0029U	<0.0038U	-	<0.003U	<0.0031U	-
	n-propylbenzene	mg/kg	0.0016	3.9	<0.0028U	<0.003U	-	<0.0022U	<0.0017U	-	<0.0016U	<0.0021U	-	<0.0017U	<0.0017U	-
	sec-butylbenzene	mg/kg	0.0018	11	<0.0032U	<0.0035U	-	<0.0026U	<0.0019U	-	<0.0019U	<0.0024U	-	<0.002U	<0.002U	-
	Trichloroethene	mg/kg	0.0011	0.47	<0.002U	<0.0021U	-	<0.0016U	<0.0012U	-	<0.0012U	<0.0015U	-	0.0014J	<0.0012U	-
	tert-butylbenzene	mg/kg	0.0014	5.9	<0.0024U	<0.0026U	-	<0.0019U	<0.0014U	-	<0.0014U	<0.0018U	-	<0.0015U	<0.0015U	-
	Tetrachloroethene	mg/kg	0.0015	1.3	<0.0026U	<0.0029U	-	<0.0021U	<0.0016U	-	<0.0015U	<0.002U	-	<0.0016U	<0.0016U	-
	Toluene	mg/kg	0.0013	0.7	<0.0022U	<0.0024U	-	<0.0018U	<0.0013U	-	<0.0013U	<0.0017U	-	<0.0014U	<0.0014U	-
	trans-1,2-dichloroethene	mg/kg	0.0019	0.19	<0.0033U	<0.0036U	-	<0.0027U	<0.002U	-	<0.002U	<0.0025U	-	<0.002U	<0.0021U	-
	Vinyl chloride	mg/kg	0.0028	0.02	<0.0048U	<0.0052U	-	<0.0039U	<0.0029U	-	<0.0028U	<0.0037U	-	<0.003U	<0.003U	-
	Xylene Total	mg/kg	0.0032	1.6	<0.0056U	<0.0062U	-	<0.0045U	<0.0034U	-	<0.0033U	<0.0043U	-	<0.0035U	<0.0035U	-

TABLE 1

Request for Reuse - Summary of Analytical Results
Former Sperry Remington Site - North Portion
Elmira, New York

				Field_ID	W7, S1, A 71317	W7, S1, B 71317	W7, S1, C 71317	W7, S2, A 71317	W7, S2, B 71317	W7, S2, C 71317	W7, S3, A 71317	W7, S3, B 71317	W7, S3, C 71317	W7, S4, A 71317	W7, S4, B 71317	W7, S4, C 71317	W7, S5, A 71317	W7, S5, B 71317	W7, S5, C 71317
				Sample Date	7/13/2017	7/13/2017	7/13/2017	7/13/2017	7/13/2017	7/13/2017	7/13/2017	7/13/2017	7/13/2017	7/13/2017	7/13/2017	7/13/2017	7/13/2017	7/13/2017	7/13/2017
				Lab_Report_Number	180-68219-1	180-68219-1	180-68219-1	180-68219-1	180-68219-1	180-68219-1	180-68219-1	180-68219-1	180-68219-1	180-68219-1	180-68219-1	180-68219-1	180-68219-1	180-68219-1	180-68219-1
				..															
Group	**Analyte**	**Units**	**EQL**																
PCBs	Arochlor 1016	mg/kg	0.0092	0	-	-	<0.0097U	-	-	<0.0097U	-	-	<0.0099U	-	-	<0.0095U	-	-	<0.0095U
	Arochlor 1221	mg/kg	0.009	0	-	-	<0.0094U	-	-	<0.0094U	-	-	<0.0096U	-	-	<0.0093U	-	-	<0.0093U
	Arochlor 1232	mg/kg	0.0069	0	-	-	<0.0072U	-	-	<0.0072U	-	-	<0.0074U	-	-	<0.0071U	-	-	<0.0071U
	Arochlor 1242	mg/kg	0.014	0	-	-	<0.014U	-	-	<0.014U	-	-	<0.015U	-	-	<0.014U	-	-	<0.014U
	Arochlor 1248	mg/kg	0.017	0	-	-	1.1J	-	-	1.5J	-	-	0.5J	-	-	0.69J	-	-	0.24J
	Arochlor 1254	mg/kg	0.017	0	-	-	0.42J	-	-	0.53J	-	-	0.24J	-	-	0.36J	-	-	0.12J
	Arochlor 1260	mg/kg	0.012	0	-	-	0.17J	-	-	0.19J	-	-	0.092J	-	-	0.099J	-	-	0.047J
	Arochlor 1268	mg/kg	0.0053	0	-	-	<0.0056U	-	-	<0.0056U	-	-	<0.0057U	-	-	<0.0055U	-	-	<0.0055U
	Arochlor 1262	mg/kg	0.012	0	-	-	<0.013U	-	-	<0.013U	-	-	<0.013U	-	-	<0.013U	-	-	<0.013U
	Total PCBs	mg/kg		1	-	-	1.69	-	-	2.22	-	-	0.832	-	-	1.149	-	-	0.407
SVOCs	1,4-Dioxane	mg/kg	0.0053	0.1	-	-	<0.055U	-	-	<0.56U	-	-	<0.0056U	-	-	<0.027U	-	-	<0.0053U
	2,4,5-trichlorophenol	mg/kg	0.0034	0	-	-	<0.034U	-	-	<0.35U	-	-	<0.0035U	-	-	<0.017U	-	-	<0.0034U
	2,4,6-trichlorophenol	mg/kg	0.0031	0	-	-	<0.032U	-	-	<0.33U	-	-	<0.0032U	-	-	<0.016U	-	-	<0.0031U
	2,4-Dinitrotoluene	mg/kg	0.0047	0	-	-	<0.048U	-	-	<0.49U	-	-	<0.0049U	-	-	<0.023U	-	-	<0.0047U
	2-methylphenol	mg/kg	0.0031	0.33	-	-	<0.032U	-	-	<0.33U	-	-	<0.0033U	-	-	<0.016U	-	-	<0.0031U
	4-methylphenol	mg/kg	0.0031	0.33	-	-	<0.032U	-	-	<0.33U	-	-	0.0055J	-	-	<0.016U	-	-	<0.0031U
	Acenaphthene	mg/kg	0.0024	98	-	-	0.029J	-	-	<0.25U	-	-	<0.0025U	-	-	<0.012U	-	-	<0.0024U
	Acenaphthylene	mg/kg	0.0071	100	-	-	0.28	-	-	1.2	-	-	0.02	-	-	0.044	-	-	0.017
	Anthracene	mg/kg	0.0071	100	-	-	0.69	-	-	6	-	-	0.045	-	-	0.083	-	-	0.033
	Benz(a)anthracene	mg/kg	0.0071	1	-	-	1.9	-	-	12	-	-	0.15	-	-	0.35	-	-	0.16
	Benzo(a) pyrene	mg/kg	0.0071	1	-	-	2	-	-	9.8	-	-	0.15	-	-	0.3	-	-	0.18
	Benzo(b)fluoranthene	mg/kg	0.0071	1	-	-	2.4	-	-	12	-	-	0.16	-	-	0.36	-	-	0.21
	Benzo(g,h,i)perylene	mg/kg	0.0071	100	-	-	2	-	-	7.3	-	-	0.14	-	-	0.24	-	-	0.16
	Benzo(k)fluoranthene	mg/kg	0.0071	1.7	-	-	0.7	-	-	3.4	-	-	0.077	-	-	0.14	-	-	0.069
	Chrysene	mg/kg	0.0071	1	-	-	1.7	-	-	9.3	-	-	0.13	-	-	0.3	-	-	0.14
	Dibenz(a,h)anthracene	mg/kg	0.0071	0.33	-	-	0.41	-	-	2	-	-	0.035	-	-	0.063	-	-	0.039
	Dibenzofuran	mg/kg	0.014	59	-	-	0.1J	-	-	0.57J	-	-	0.0069J	-	-	<0.014U	-	-	0.0045J
	Fluoranthene	mg/kg	0.0071	100	-	-	3.5	-	-	24	-	-	0.26	-	-	0.49	-	-	0.24
	Fluorene	mg/kg	0.0026	100	-	-	0.078	-	-	0.92	-	-	0.007J	-	-	<0.013U	-	-	0.0031J
	Hexachlorobenzene	mg/kg	0.0028	1.2	-	-	<0.029U	-	-	<0.3U	-	-	<0.003U	-	-	<0.014U	-	-	<0.0028U
	Hexachlorobutadiene	mg/kg	0.0022	0	-	-	<0.023U	-	-	<0.23U	-	-	<0.0023U	-	-	<0.011U	-	-	<0.0022U
	Hexachloroethane	mg/kg	0.0025	0	-	-	<0.026U	-	-	<0.27U	-	-	<0.0027U	-	-	<0.013U	-	-	<0.0025U
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.0071	0.5	-	-	1.7	-	-	7	-	-	0.13	-	-	0.21	-	-	0.14
	Naphthalene	mg/kg	0.0071	12	-	-	0.32	-	-	0.57J	-	-	0.022	-	-	0.029J	-	-	0.016
	Nitrobenzene	mg/kg	0.0027	0	-	-	<0.028U	-	-	<0.28U	-	-	<0.0028U	-	-	<0.014U	-	-	<0.0027U
	Pentachlorophenol	mg/kg	0.067	0.8	-	-	<0.69U	-	-	<7U	-	-	<0.07U	-	-	<0.33U	-	-	<0.067U
	Phenanthrene	mg/kg	0.0071	100	-	-	2	-	-	19	-	-	0.15	-	-	0.28	-	-	0.072
	Phenol	mg/kg	0.0048	0.33	-	-	<0.049U	-	-	<0.5U	-	-	<0.005U	-	-	<0.024U	-	-	<0.0048U
	Pyrene	mg/kg	0.0071	100	-	-	3.3	-	-	21	-	-	0.23	-	-	0.52	-	-	0.22
	Pyridine	mg/kg	0.0034	0	-	-	<0.035U	-	-	<0.36U	-	-	<0.0035U	-	-	<0.017U	-	-	<0.0034U
Inorganics	Cyanide Total	mg/kg	0.14	27	-	-	0.42J	-	-	0.23J	-	-	<0.15U	-	-	0.39J	-	-	<0.16U
Metals	Arsenic	mg/kg	1	16	-	-	6.9	-	-	9	-	-	7.4	-	-	4.8	-	-	5.5
	Barium	mg/kg	21	400	-	-	61	-	-	78	-	-	78	-	-	40	-	-	52
	Beryllium	mg/kg	0.42	47	-	-	0.32J	-	-	0.4J	-	-	0.4J	-	-	0.26J	-	-	0.3J
	Cadmium	mg/kg	0.12	4.3	-	-	0.17J	-	-	0.18J	-	-	0.16J	-	-	<0.12U	-	-	<0.13U
	Chromium (III+VI)	mg/kg	0.52	19	-	-	9.1	-	-	11	-	-	11	-	-	6.8	-	-	7.5
	Copper	mg/kg	2.6	270	-	-	25	-	-	29	-	-	23	-	-	17	-	-	21
	Lead	mg/kg	1	400	-	-	33	-	-	38	-	-	24	-	-	17	-	-	18
	Manganese	mg/kg	1.6	2000	-	-	390	-	-	440	-	-	470	-	-	300	-	-	490
	Nickel	mg/kg	4.2	130	-	-	18	-	-	21	-	-	18	-	-	12	-	-	14
	Selenium	mg/kg	0.42	4	-	-	0.56J	-	-	<0.42U	-	-	<0.47U	-	-	<0.43U	-	-	<0.46U
	Silver	mg/kg	0.17	8.3	-	-	<0.19U	-	-	<0.17U	-	-	<0.2U	-	-	<0.18U	-	-	<0.19U
	Zinc	mg/kg	2.1	2480	-	-	74	-	-	83	-	-	67	-	-	47	-	-	52
	Mercury	mg/kg	0.028	0.73	-	-	0.057	-	-	0.042	-	-	0.043	-	-	0.04	-	-	0.047

TABLE 1

Request for Reuse - Summary of Analytical Results
Former Sperry Remington Site - North Portion
Elmira, New York

				Field_ID	W7, S1, A 71317	W7, S1, B 71317	W7, S1, C 71317	W7, S2, A 71317	W7, S2, B 71317	W7, S2, C 71317	W7, S3, A 71317	W7, S3, B 71317	W7, S3, C 71317	W7, S4, A 71317	W7, S4, B 71317	W7, S4, C 71317	W7, S5, A 71317	W7, S5, B 71317	W7, S5, C 71317
				Sample Date	7/13/2017	7/13/2017	7/13/2017	7/13/2017	7/13/2017	7/13/2017	7/13/2017	7/13/2017	7/13/2017	7/13/2017	7/13/2017	7/13/2017	7/13/2017	7/13/2017	7/13/2017
				Lab_Report_Number	180-68219-1	180-68219-1	180-68219-1	180-68219-1	180-68219-1	180-68219-1	180-68219-1	180-68219-1	180-68219-1	180-68219-1	180-68219-1	180-68219-1	180-68219-1	180-68219-1	180-68219-1
				..															
Group	Analyte	Units	EQL																
VOCs	1,1,1-trichloroethane	mg/kg	0.0019	0.68	<0.0019U	<0.0019U	-	<0.0021U	<0.0026U	-	<0.0021U	<0.0023U	-	<0.0024U	<0.0021U	-	<0.0021U	<0.0023U	-
	1,1-dichloroethane	mg/kg	0.0014	0.27	<0.0014U	<0.0014U	-	<0.0015U	<0.0019U	-	<0.0015U	<0.0016U	-	<0.0017U	<0.0015U	-	<0.0015U	<0.0016U	-
	1,1-dichloroethene	mg/kg	0.0021	0.33	<0.0022U	<0.0021U	-	<0.0024U	<0.003U	-	<0.0024U	<0.0026U	-	<0.0027U	<0.0024U	-	<0.0024U	<0.0026U	-
	1,2,4-trimethylbenzene	mg/kg	0.001	3.6	<0.001U	<0.001U	-	<0.0011U	<0.0014U	-	<0.0011U	<0.0012U	-	<0.0013U	<0.0011U	-	<0.0011U	<0.0012U	-
	1,2-dichlorobenzene	mg/kg	0.003	1.1	<0.0031U	<0.003U	-	<0.0033U	<0.0042U	-	<0.0034U	<0.0036U	-	<0.0039U	<0.0033U	-	<0.0034U	<0.0037U	-
	1,2-dichloroethane	mg/kg	0.0011	0.02	<0.0011U	<0.0011U	-	<0.0012U	<0.0015U	-	<0.0012U	<0.0013U	-	<0.0014U	<0.0012U	-	<0.0012U	<0.0013U	-
	1,3,5-trimethylbenzene	mg/kg	0.0013	8.4	<0.0013U	<0.0013U	-	<0.0014U	<0.0018U	-	<0.0015U	<0.0015U	-	<0.0017U	<0.0014U	-	<0.0014U	<0.0016U	-
	1,3-dichlorobenzene	mg/kg	0.0012	2.4	<0.0012U	<0.0012U	-	<0.0013U	<0.0017U	-	<0.0013U	<0.0014U	-	<0.0015U	<0.0013U	-	<0.0013U	<0.0014U	-
	1,4-dichlorobenzene	mg/kg	0.00077	1.8	<0.00077U	<0.00077U	-	<0.00085U	<0.0011U	-	<0.00086U	<0.00092U	-	<0.00098U	<0.00084U	-	<0.00085U	<0.00093U	-
	Methyl Ethyl Ketone	mg/kg	0.0022	0.12	<0.0022U	<0.0022U	-	<0.0024U	<0.003U	-	<0.0025U	<0.0026U	-	<0.0028U	<0.0024U	-	<0.0024U	<0.0026U	-
	Acetone	mg/kg	0.0024	0.05	<0.0024U	<0.0024U	-	<0.0026U	<0.0033U	-	<0.0027U	<0.0028U	-	<0.003U	<0.0026U	-	<0.0026U	<0.0029U	-
	Benzene	mg/kg	0.0015	0.06	<0.0015U	<0.0015U	-	<0.0016U	<0.0021U	-	<0.0017U	<0.0018U	-	<0.0019U	<0.0016U	-	<0.0016U	<0.0018U	-
	Carbon tetrachloride	mg/kg	0.0025	0.76	<0.0025U	<0.0025U	-	<0.0028U	<0.0035U	-	<0.0028U	<0.003U	-	<0.0032U	<0.0027U	-	<0.0028U	<0.003U	-
	Chlorobenzene	mg/kg	0.0012	1.1	<0.0012U	<0.0012U	-	<0.0013U	<0.0016U	-	<0.0013U	<0.0014U	-	<0.0015U	<0.0013U	-	<0.0013U	<0.0014U	-
	Chloroform	mg/kg	0.0016	0.37	<0.0016U	<0.0016U	-	<0.0018U	<0.0022U	-	<0.0018U	<0.0019U	-	<0.002U	<0.0017U	-	<0.0018U	<0.0019U	-
	cis-1,2-dichloroethene	mg/kg	0.0012	0.25	<0.0012U	<0.0012U	-	<0.0013U	<0.0016U	-	<0.0013U	<0.0014U	-	<0.0015U	<0.0013U	-	<0.0013U	<0.0014U	-
	Dichloromethane	mg/kg	0.0018	0.05	<0.0018U	<0.0018U	-	<0.002U	<0.0025U	-	<0.002U	<0.0021U	-	<0.0023U	<0.0019U	-	<0.002U	<0.0021U	-
	Ethylbenzene	mg/kg	0.0016	1	<0.0016U	<0.0016U	-	<0.0018U	<0.0023U	-	<0.0018U	<0.0019U	-	<0.0021U	<0.0018U	-	<0.0018U	<0.002U	-
	Methyl-tert-butyl ether	mg/kg	0.0028	0.93	<0.0028U	<0.0028U	-	<0.0031U	<0.0039U	-	<0.0031U	<0.0033U	-	<0.0035U	<0.003U	-	<0.0031U	<0.0033U	-
	n-butylbenzene	mg/kg	0.0029	12	<0.0029U	<0.0029U	-	<0.0031U	<0.004U	-	<0.0032U	<0.0034U	-	<0.0036U	<0.0031U	-	<0.0032U	<0.0034U	-
	n-propylbenzene	mg/kg	0.0016	3.9	<0.0016U	<0.0016U	-	<0.0018U	<0.0022U	-	<0.0018U	<0.0019U	-	<0.002U	<0.0017U	-	<0.0018U	<0.0019U	-
	sec-butylbenzene	mg/kg	0.0018	11	<0.0019U	<0.0018U	-	<0.002U	<0.0026U	-	<0.0021U	<0.0022U	-	<0.0023U	<0.002U	-	<0.002U	<0.0022U	-
	Trichloroethene	mg/kg	0.0011	0.47	<0.0011U	<0.0011U	-	<0.0012U	<0.0016U	-	<0.0013U	<0.0013U	-	<0.0014U	<0.0012U	-	<0.0013U	<0.0014U	-
	tert-butylbenzene	mg/kg	0.0014	5.9	<0.0014U	<0.0014U	-	<0.0015U	<0.0019U	-	<0.0015U	<0.0016U	-	<0.0018U	<0.0015U	-	<0.0015U	<0.0017U	-
	Tetrachloroethene	mg/kg	0.0015	1.3	<0.0015U	<0.0015U	-	<0.0017U	<0.0021U	-	<0.0017U	<0.0018U	-	<0.0019U	<0.0017U	-	<0.0017U	<0.0018U	-
	Toluene	mg/kg	0.0013	0.7	<0.0013U	<0.0013U	-	<0.0014U	<0.0018U	-	<0.0014U	<0.0015U	-	<0.0016U	<0.0014U	-	<0.0014U	<0.0015U	-
	trans-1,2-dichloroethene	mg/kg	0.0019	0.19	<0.0019U	<0.0019U	-	<0.0021U	<0.0027U	-	<0.0021U	<0.0023U	-	<0.0024U	<0.0021U	-	<0.0021U	<0.0023U	-
	Vinyl chloride	mg/kg	0.0028	0.02	<0.0028U	<0.0028U	-	<0.003U	<0.0038U	-	<0.0031U	<0.0033U	-	<0.0035U	<0.003U	-	<0.0031U	<0.0033U	-
	Xylene Total	mg/kg	0.0032	1.6	<0.0033U	<0.0032U	-	<0.0036U	<0.0045U	-	<0.0036U	<0.0039U	-	<0.0041U	<0.0036U	-	<0.0036U	<0.0039U	-

TABLE 1

Request for Reuse - Summary of Analytical Results
Former Sperry Remington Site - North Portion
Elmira, New York

				Field_ID	W8, S1, A 71317	W8, S1, B 71317	WB 7-8, S1, A 072417	WB 7-8, S1, B 072417	WB 7-8, S1, C 072417	WB 7-8, S2, A 072417	WB 7-8, S2, B 072417	WB 7-8, S2, C 072417	WB 7-8, S3, A 072417	WB 7-8, S3, B 072417	WB 7-8, S3, C 072417
				Sample Date	7/13/2017	7/13/2017	7/24/2017	7/24/2017	7/24/2017	7/24/2017	7/24/2017	7/24/2017	7/24/2017	7/24/2017	7/24/2017
				Lab_Report_Number	180-68219-1	180-68219-1	180-68509-1	180-68509-1	180-68509-1	180-68509-1	180-68509-1	180-68509-1	180-68509-1	180-68509-1	180-68509-1
				..											
Group	**Analyte**	**Units**	**EQL**												
PCBs	Arochlor 1016	mg/kg	0.0092	0	-	-	-	-	<0.012U	-	-	<0.012U	-	-	<0.011U
	Arochlor 1221	mg/kg	0.009	0	-	-	-	-	<0.012U	-	-	<0.012U	-	-	<0.011U
	Arochlor 1232	mg/kg	0.0069	0	-	-	-	-	<0.0089U	-	-	<0.0089U	-	-	<0.0085U
	Arochlor 1242	mg/kg	0.014	0	-	-	-	-	<0.018U	-	-	<0.018U	-	-	<0.017U
	Arochlor 1248	mg/kg	0.017	0	-	-	-	-	1.3J	-	-	0.79J	-	-	1.3J
	Arochlor 1254	mg/kg	0.017	0	-	-	-	-	0.5J	-	-	0.3J	-	-	0.46J
	Arochlor 1260	mg/kg	0.012	0	-	-	-	-	0.054J	-	-	0.043J	-	-	0.05J
	Arochlor 1268	mg/kg	0.0053	0	-	-	-	-	<0.0069U	-	-	<0.0069U	-	-	<0.0065U
	Arochlor 1262	mg/kg	0.012	0	-	-	-	-	<0.016U	-	-	<0.016U	-	-	<0.015U
	Total PCBs	mg/kg		1	-	-	-	-	1.854	-	-	1.133	-	-	1.81
SVOCs	1,4-Dioxane	mg/kg	0.0053	0.1	-	-	-	-	<0.0069U	-	-	<0.014U	-	-	<0.0065U
	2,4,5-trichlorophenol	mg/kg	0.0034	0	-	-	-	-	<0.0043U	-	-	<0.0087U	-	-	<0.0041U
	2,4,6-trichlorophenol	mg/kg	0.0031	0	-	-	-	-	<0.004U	-	-	<0.008U	-	-	<0.0038U
	2,4-Dinitrotoluene	mg/kg	0.0047	0	-	-	-	-	<0.006U	-	-	<0.012U	-	-	<0.0057U
	2-methylphenol	mg/kg	0.0031	0.33	-	-	-	-	<0.004U	-	-	<0.0081U	-	-	<0.0038U
	4-methylphenol	mg/kg	0.0031	0.33	-	-	-	-	0.0082J	-	-	0.021J	-	-	0.019J
	Acenaphthene	mg/kg	0.0024	98	-	-	-	-	0.012	-	-	0.037	-	-	0.013
	Acenaphthylene	mg/kg	0.0071	100	-	-	-	-	0.029	-	-	0.062	-	-	0.12
	Anthracene	mg/kg	0.0071	100	-	-	-	-	0.045	-	-	0.1	-	-	0.097
	Benz(a)anthracene	mg/kg	0.0071	1	-	-	-	-	0.14	-	-	0.23	-	-	0.18
	Benzo(a) pyrene	mg/kg	0.0071	1	-	-	-	-	0.15	-	-	0.22	-	-	0.19
	Benzo(b)fluoranthene	mg/kg	0.0071	1	-	-	-	-	0.19	-	-	0.29	-	-	0.27
	Benzo(g,h,i)perylene	mg/kg	0.0071	100	-	-	-	-	0.16	-	-	0.22	-	-	0.25
	Benzo(k)fluoranthene	mg/kg	0.0071	1.7	-	-	-	-	0.08	-	-	0.1	-	-	0.085
	Chrysene	mg/kg	0.0071	1	-	-	-	-	0.16	-	-	0.25	-	-	0.26
	Dibenz(a,h)anthracene	mg/kg	0.0071	0.33	-	-	-	-	0.035	-	-	0.053	-	-	0.062
	Dibenzofuran	mg/kg	0.014	59	-	-	-	-	0.0091J	-	-	0.028J	-	-	0.011J
	Fluoranthene	mg/kg	0.0071	100	-	-	-	-	0.29	-	-	0.46	-	-	0.31
	Fluorene	mg/kg	0.0026	100	-	-	-	-	0.014	-	-	0.044	-	-	0.019
	Hexachlorobenzene	mg/kg	0.0028	1.2	-	-	-	-	<0.0037U	-	-	<0.0074U	-	-	<0.0035U
	Hexachlorobutadiene	mg/kg	0.0022	0	-	-	-	-	<0.0029U	-	-	<0.0058U	-	-	<0.0027U
	Hexachloroethane	mg/kg	0.0025	0	-	-	-	-	<0.0033U	-	-	<0.0066U	-	-	<0.0031U
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.0071	0.5	-	-	-	-	0.14	-	-	0.18	-	-	0.2
	Naphthalene	mg/kg	0.0071	12	-	-	-	-	0.011	-	-	0.03	-	-	0.03
	Nitrobenzene	mg/kg	0.0027	0	-	-	-	-	<0.0035U	-	-	<0.007U	-	-	<0.0033U
	Pentachlorophenol	mg/kg	0.067	0.8	-	-	-	-	<0.086U	-	-	<0.17U	-	-	<0.081U
	Phenanthrene	mg/kg	0.0071	100	-	-	-	-	0.12	-	-	0.28	-	-	0.14
	Phenol	mg/kg	0.0048	0.33	-	-	-	-	<0.0061U	-	-	<0.012U	-	-	<0.0058U
	Pyrene	mg/kg	0.0071	100	-	-	-	-	0.21	-	-	0.33	-	-	0.26
	Pyridine	mg/kg	0.0034	0	-	-	-	-	<0.0044U	-	-	<0.0088U	-	-	<0.0041U
Inorganics	Cyanide Total	mg/kg	0.14	27	-	-	-	-	0.34J	-	-	0.3J	-	-	0.4J
Metals	Arsenic	mg/kg	1	16	-	-	-	-	5.6	-	-	7.2	-	-	7.4
	Barium	mg/kg	21	400	-	-	-	-	90	-	-	97	-	-	120
	Beryllium	mg/kg	0.42	47	-	-	-	-	0.31J	-	-	0.41J	-	-	0.45J
	Cadmium	mg/kg	0.12	4.3	-	-	-	-	0.23J	-	-	0.23J	-	-	0.26J
	Chromium (III+VI)	mg/kg	0.52	19	-	-	-	-	9.2	-	-	12	-	-	14
	Copper	mg/kg	2.6	270	-	-	-	-	29	-	-	33	-	-	33
	Lead	mg/kg	1	400	-	-	-	-	39	-	-	42	-	-	46
	Manganese	mg/kg	1.6	2000	-	-	-	-	380	-	-	490	-	-	510
	Nickel	mg/kg	4.2	130	-	-	-	-	19	-	-	26	-	-	39
	Selenium	mg/kg	0.42	4	-	-	-	-	<0.55U	-	-	<0.55U	-	-	<0.56U
	Silver	mg/kg	0.17	8.3	-	-	-	-	<0.23U	-	-	<0.23U	-	-	<0.23U
	Zinc	mg/kg	2.1	2480	-	-	-	-	63	-	-	74	-	-	110
	Mercury	mg/kg	0.028	0.73	-	-	-	-	0.044J	-	-	0.066	-	-	0.06

TABLE 1

Request for Reuse - Summary of Analytical Results
Former Sperry Remington Site - North Portion
Elmira, New York

				Field_ID	W8, S1, A 71317	W8, S1, B 71317	WB 7-8, S1, A 072417	WB 7-8, S1, B 072417	WB 7-8, S1, C 072417	WB 7-8, S2, A 072417	WB 7-8, S2, B 072417	WB 7-8, S2, C 072417	WB 7-8, S3, A 072417	WB 7-8, S3, B 072417	WB 7-8, S3, C 072417
				Sample Date	7/13/2017	7/13/2017	7/24/2017	7/24/2017	7/24/2017	7/24/2017	7/24/2017	7/24/2017	7/24/2017	7/24/2017	7/24/2017
				Lab_Report_Number	180-68219-1	180-68219-1	180-68509-1	180-68509-1	180-68509-1	180-68509-1	180-68509-1	180-68509-1	180-68509-1	180-68509-1	180-68509-1
				..											
Group	Analyte	Units	EQL												
VOCs	1,1,1-trichloroethane	mg/kg	0.0019	0.68	<0.002U	<0.002U	<0.0028U	<0.0027U	-	<0.0032U	<0.003U	-	<0.0027U	<0.0022U	-
	1,1-dichloroethane	mg/kg	0.0014	0.27	<0.0014U	<0.0015U	<0.002U	<0.002U	-	<0.0023U	<0.0021U	-	<0.0019U	<0.0016U	-
	1,1-dichloroethene	mg/kg	0.0021	0.33	<0.0022U	<0.0023U	<0.0032U	<0.0031U	-	<0.0037U	<0.0034U	-	<0.003U	<0.0025U	-
	1,2,4-trimethylbenzene	mg/kg	0.001	3.6	<0.001U	<0.0011U	<0.0015U	<0.0015U	-	<0.0017U	<0.0016U	-	<0.0014U	<0.0012U	-
	1,2-dichlorobenzene	mg/kg	0.003	1.1	<0.0031U	<0.0033U	<0.0044U	<0.0044U	-	<0.0052U	<0.0048U	-	<0.0043U	<0.0036U	-
	1,2-dichloroethane	mg/kg	0.0011	0.02	<0.0011U	<0.0012U	<0.0016U	<0.0016U	-	<0.0019U	<0.0017U	-	<0.0015U	<0.0013U	-
	1,3,5-trimethylbenzene	mg/kg	0.0013	8.4	<0.0013U	<0.0014U	<0.0019U	<0.0019U	-	<0.0022U	<0.002U	-	<0.0018U	<0.0015U	-
	1,3-dichlorobenzene	mg/kg	0.0012	2.4	<0.0012U	<0.0013U	<0.0018U	<0.0017U	-	<0.0021U	<0.0019U	-	<0.0017U	<0.0014U	-
	1,4-dichlorobenzene	mg/kg	0.00077	1.8	<0.00079U	<0.00082U	<0.0011U	<0.0011U	-	<0.0013U	<0.0012U	-	<0.0011U	<0.00091U	-
	Methyl Ethyl Ketone	mg/kg	0.0022	0.12	<0.0023U	<0.0023U	<0.0032U	<0.0032U	-	<0.0037U	<0.0034U	-	<0.0031U	<0.0026U	-
	Acetone	mg/kg	0.0024	0.05	<0.0025U	<0.0025U	<0.0035U	<0.0034U	-	<0.0041U	<0.0037U	-	<0.0033U	<0.0028U	-
	Benzene	mg/kg	0.0015	0.06	<0.0015U	<0.0016U	<0.0022U	<0.0021U	-	<0.0025U	<0.0023U	-	<0.0021U	<0.0018U	-
	Carbon tetrachloride	mg/kg	0.0025	0.76	<0.0026U	<0.0027U	<0.0037U	<0.0036U	-	<0.0043U	<0.0039U	-	<0.0035U	<0.003U	-
	Chlorobenzene	mg/kg	0.0012	1.1	<0.0012U	<0.0013U	<0.0017U	<0.0017U	-	<0.002U	<0.0019U	-	<0.0017U	<0.0014U	-
	Chloroform	mg/kg	0.0016	0.37	<0.0016U	<0.0017U	<0.0023U	<0.0023U	-	<0.0027U	<0.0025U	-	<0.0022U	<0.0019U	-
	cis-1,2-dichloroethene	mg/kg	0.0012	0.25	<0.0012U	<0.0013U	<0.0017U	<0.0017U	-	<0.002U	<0.0019U	-	<0.0017U	<0.0014U	-
	Dichloromethane	mg/kg	0.0018	0.05	<0.0018U	<0.0019U	<0.0026U	<0.0026U	-	<0.003U	<0.0028U	-	<0.0025U	<0.0021U	-
	Ethylbenzene	mg/kg	0.0016	1	<0.0017U	<0.0017U	<0.0024U	<0.0024U	-	0.004J	<0.0026U	-	<0.0023U	<0.0019U	-
	Methyl-tert-butyl ether	mg/kg	0.0028	0.93	<0.0029U	<0.003U	<0.0041U	<0.004U	-	<0.0048U	<0.0044U	-	<0.0039U	<0.0033U	-
	n-butylbenzene	mg/kg	0.0029	12	<0.0029U	<0.0031U	<0.0042U	<0.0041U	-	<0.0049U	<0.0045U	-	<0.004U	<0.0034U	-
	n-propylbenzene	mg/kg	0.0016	3.9	<0.0016U	<0.0017U	<0.0023U	<0.0023U	-	<0.0027U	<0.0025U	-	<0.0022U	<0.0019U	-
	sec-butylbenzene	mg/kg	0.0018	11	<0.0019U	<0.002U	<0.0027U	<0.0027U	-	<0.0031U	<0.0029U	-	<0.0026U	<0.0022U	-
	Trichloroethene	mg/kg	0.0011	0.47	<0.0012U	<0.0012U	<0.0017U	<0.0016U	-	<0.0019U	<0.0018U	-	<0.0016U	<0.0013U	-
	tert-butylbenzene	mg/kg	0.0014	5.9	<0.0014U	<0.0015U	<0.002U	<0.002U	-	<0.0024U	<0.0022U	-	<0.0019U	<0.0016U	-
	Tetrachloroethene	mg/kg	0.0015	1.3	<0.0016U	<0.0016U	<0.0022U	<0.0022U	-	<0.0026U	<0.0024U	-	<0.0021U	<0.0018U	-
	Toluene	mg/kg	0.0013	0.7	<0.0013U	<0.0014U	<0.0019U	<0.0018U	-	<0.0022U	<0.002U	-	<0.0018U	<0.0015U	-
	trans-1,2-dichloroethene	mg/kg	0.0019	0.19	<0.002U	<0.0021U	<0.0028U	<0.0028U	-	<0.0033U	<0.003U	-	<0.0027U	<0.0023U	-
	Vinyl chloride	mg/kg	0.0028	0.02	<0.0029U	<0.003U	<0.0041U	<0.004U	-	<0.0047U	<0.0043U	-	<0.0039U	<0.0033U	-
	Xylene Total	mg/kg	0.0032	1.6	<0.0033U	<0.0035U	<0.0048U	<0.0047U	-	0.026	<0.0051U	-	<0.0046U	<0.0038U	-

TABLE 1

Request for Reuse - Summary of Analytical Results
Former Sperry Remington Site - North Portion
Elmira, New York

				Field_ID	WB 7-8, S4, A 072417	WB 7-8, S4, B 072417	WB 7-8, S4, C 072417	WB7-8, S5, A 72517	WB7-8, S5, B 72517	WB7-8, S5, C 72517	W8, S1, C 71317	W8, S2, A 71317	W8, S2, B 71317	W8, S2, C 71317	W8, S3, A 71317	W8, S3, B 71317	W8, S3, C 71317	W9, S1, A 072417	W9, S1, B 072417	W9, S1, C 072417
				Sample Date	7/24/2017	7/24/2017	7/24/2017	7/25/2017	7/25/2017	7/25/2017	7/13/2017	7/13/2017	7/13/2017	7/13/2017	7/13/2017	7/13/2017	7/13/2017	7/24/2017	7/24/2017	7/24/2017
				Lab_Report_Number	180-68509-1	180-68509-1	180-68509-1	180-68556-1	180-68556-1	180-68556-1	180-68219-1	180-68219-1	180-68219-1	180-68219-1	180-68219-1	180-68219-1	180-68219-1	180-68509-1	180-68509-1	180-68509-1
				..																
Group	**Analyte**	**Units**	**EQL**																	
PCBs	Arochlor 1016	mg/kg	0.0092	0	-	-	<0.012U	-	-	<0.012U	<0.0096U	-	-	<0.0098U	-	-	<0.01U	-	-	<0.0095U
	Arochlor 1221	mg/kg	0.009	0	-	-	<0.012U	-	-	<0.011U	<0.0093U	-	-	<0.0096U	-	-	<0.0098U	-	-	<0.0093U
	Arochlor 1232	mg/kg	0.0069	0	-	-	<0.0091U	-	-	<0.0088U	<0.0071U	-	-	<0.0073U	-	-	<0.0075U	-	-	<0.0071U
	Arochlor 1242	mg/kg	0.014	0	-	-	<0.018U	-	-	<0.018U	<0.014U	-	-	<0.015U	-	-	<0.015U	-	-	<0.014U
	Arochlor 1248	mg/kg	0.017	0	-	-	1J	-	-	0.87J	0.63J	-	-	0.48J	-	-	0.17J	-	-	0.15J
	Arochlor 1254	mg/kg	0.017	0	-	-	0.42J	-	-	0.36J	0.32J	-	-	0.29J	-	-	0.079J	-	-	0.053J
	Arochlor 1260	mg/kg	0.012	0	-	-	0.04J	-	-	0.038J	0.16J	-	-	0.11J	-	-	0.03J	-	-	<0.012U
	Arochlor 1268	mg/kg	0.0053	0	-	-	<0.007U	-	-	<0.0067U	<0.0055U	-	-	<0.0056U	-	-	<0.0057U	-	-	<0.0055U
	Arochlor 1262	mg/kg	0.012	0	-	-	<0.016U	-	-	<0.016U	<0.013U	-	-	<0.013U	-	-	<0.014U	-	-	<0.013U
	Total PCBs	mg/kg		1	-	-	1.46	-	-	1.268	1.11	-	-	0.88	-	-	0.279	-	-	0.203
SVOCs	1,4-Dioxane	mg/kg	0.0053	0.1	-	-	<0.007U	-	-	<0.0067U,F2	<0.027U	-	-	<0.028U	-	-	<0.012U	-	-	<0.016U
	2,4,5-trichlorophenol	mg/kg	0.0034	0	-	-	<0.0044U	-	-	<0.0042U,F2	<0.017U	-	-	<0.018U	-	-	<0.0073U	-	-	<0.01U
	2,4,6-trichlorophenol	mg/kg	0.0031	0	-	-	<0.0041U	-	-	<0.0039U,F2	<0.016U	-	-	<0.016U	-	-	<0.0067U	-	-	<0.0095U
	2,4-Dinitrotoluene	mg/kg	0.0047	0	-	-	<0.0062U	-	-	<0.0059U,F2	<0.024U	-	-	<0.025U	-	-	<0.01U	-	-	<0.014U
	2-methylphenol	mg/kg	0.0031	0.33	-	-	<0.0041U	-	-	<0.0039U,F2	<0.016U	-	-	<0.016U	-	-	0.0096J	-	-	<0.0096U
	4-methylphenol	mg/kg	0.0031	0.33	-	-	0.0074J	-	-	0.012J	<0.016U	-	-	<0.016U	-	-	0.045J	-	-	<0.0096U
	Acenaphthene	mg/kg	0.0024	98	-	-	0.0089J	-	-	0.0091J	<0.012U	-	-	<0.012U	-	-	0.017	-	-	0.021J
	Acenaphthylene	mg/kg	0.0071	100	-	-	0.052	-	-	0.038J	0.14	-	-	0.13	-	-	0.37	-	-	0.052
	Anthracene	mg/kg	0.0071	100	-	-	0.05	-	-	0.036J	0.15	-	-	0.2	-	-	0.67	-	-	0.077
	Benz(a)anthracene	mg/kg	0.0071	1	-	-	0.12	-	-	0.097J	0.49	-	-	0.69	-	-	2	-	-	0.29
	Benzo(a) pyrene	mg/kg	0.0071	1	-	-	0.13	-	-	0.1J	0.54	-	-	0.7	-	-	1.8	-	-	0.31
	Benzo(b)fluoranthene	mg/kg	0.0071	1	-	-	0.17	-	-	0.14J	0.73	-	-	0.76	-	-	2.1	-	-	0.41
	Benzo(g,h,i)perylene	mg/kg	0.0071	100	-	-	0.14	-	-	0.096J	0.72	-	-	0.73	-	-	1.4	-	-	0.34
	Benzo(k)fluoranthene	mg/kg	0.0071	1.7	-	-	0.058	-	-	0.051J	0.2	-	-	0.3	-	-	0.85	-	-	0.14
	Chrysene	mg/kg	0.0071	1	-	-	0.13	-	-	0.11J	0.48	-	-	0.62	-	-	1.6	-	-	0.36
	Dibenz(a,h)anthracene	mg/kg	0.0071	0.33	-	-	0.037	-	-	0.024J	0.13	-	-	0.15	-	-	0.36	-	-	0.084
	Dibenzofuran	mg/kg	0.014	59	-	-	0.0078J	-	-	0.0075J	0.055J	-	-	0.048J	-	-	0.11	-	-	0.027J
	Fluoranthene	mg/kg	0.0071	100	-	-	0.23	-	-	0.18J	0.74	-	-	1	-	-	4.4	-	-	0.65
	Fluorene	mg/kg	0.0026	100	-	-	0.013	-	-	0.011J	0.026J	-	-	0.034J	-	-	0.12	-	-	0.026
	Hexachlorobenzene	mg/kg	0.0028	1.2	-	-	<0.0037U	-	-	<0.0036U,F2	<0.014U	-	-	<0.015U	-	-	<0.0062U	-	-	<0.0087U
	Hexachlorobutadiene	mg/kg	0.0022	0	-	-	<0.0029U	-	-	<0.0028U,F2	<0.011U	-	-	<0.012U	-	-	<0.0048U	-	-	<0.0068U
	Hexachloroethane	mg/kg	0.0025	0	-	-	<0.0033U	-	-	<0.0032U,F2	<0.013U	-	-	<0.013U	-	-	<0.0055U	-	-	<0.0078U
	Indeno(1,2,3-c,d)pyrene	mg/kg	0.0071	0.5	-	-	0.12	-	-	0.082J	0.58	-	-	0.61	-	-	1.3	-	-	0.31
	Naphthalene	mg/kg	0.0071	12	-	-	0.016	-	-	0.015J	0.17	-	-	0.13	-	-	0.19	-	-	0.047
	Nitrobenzene	mg/kg	0.0027	0	-	-	<0.0036U	-	-	<0.0034U,F2	<0.014U	-	-	<0.014U	-	-	<0.0058U	-	-	<0.0083U
	Pentachlorophenol	mg/kg	0.067	0.8	-	-	<0.088U	-	-	<0.084U,F2	<0.34U	-	-	<0.35U	-	-	<0.14U	-	-	<0.21U
	Phenanthrene	mg/kg	0.0071	100	-	-	0.1	-	-	0.085J	0.34	-	-	0.55	-	-	2.5	-	-	0.28
	Phenol	mg/kg	0.0048	0.33	-	-	<0.0063U	-	-	<0.006U,F2	<0.024U	-	-	<0.025U	-	-	0.033J	-	-	<0.015U
	Pyrene	mg/kg	0.0071	100	-	-	0.17	-	-	0.15J	0.69	-	-	0.94	-	-	3.8	-	-	0.45
	Pyridine	mg/kg	0.0034	0	-	-	<0.0044U	-	-	<0.0042UJ	<0.017U	-	-	<0.018U	-	-	<0.0073U	-	-	<0.01U
Inorganics	Cyanide Total	mg/kg	0.14	27	-	-	0.75	-	-	0.38J	0.22J	-	-	0.28J	-	-	0.64	-	-	0.37J
Metals	Arsenic	mg/kg	1	16	-	-	5.9	-	-	5.6	7.3	-	-	6.6	-	-	7.5	-	-	6.7
	Barium	mg/kg	21	400	-	-	95	-	-	90	98	-	-	67	-	-	76	-	-	68
	Beryllium	mg/kg	0.42	47	-	-	0.34J	-	-	0.38J	0.36J	-	-	0.26J	-	-	0.42J	-	-	0.33J
	Cadmium	mg/kg	0.12	4.3	-	-	0.19J	-	-	0.26J	0.27J	-	-	0.17J	-	-	0.13J	-	-	0.15J
	Chromium (III+VI)	mg/kg	0.52	19	-	-	9.6	-	-	9.8	13	-	-	9.2	-	-	11	-	-	10
	Copper	mg/kg	2.6	270	-	-	21	-	-	21	67	-	-	36	-	-	23	-	-	34
	Lead	mg/kg	1	400	-	-	35	-	-	22	75	-	-	45	-	-	33	-	-	35
	Manganese	mg/kg	1.6	2000	-	-	450	-	-	420	440	-	-	370	-	-	390	-	-	500
	Nickel	mg/kg	4.2	130	-	-	17	-	-	18	18	-	-	15	-	-	19	-	-	19
	Selenium	mg/kg	0.42	4	-	-	<0.53U	-	-	<0.55U	<0.42U	-	-	0.67J	-	-	<0.47U	-	-	<0.45U
	Silver	mg/kg	0.17	8.3	-	-	<0.22U	-	-	<0.23U	<0.18U	-	-	<0.18U	-	-	<0.2U	-	-	<0.19U
	Zinc	mg/kg	2.1	2480	-	-	55	-	-	59	120	-	-	75	-	-	83	-	-	64
	Mercury	mg/kg	0.028	0.73	-	-	0.048	-	-	0.036J,F1	0.86	-	-	0.6	-	-	0.16	-	-	0.022J

TABLE 1

Request for Reuse - Summary of Analytical Results
Former Sperry Remington Site - North Portion
Elmira, New York

				Field_ID	WB 7-8, S4, A 072417	WB 7-8, S4, B 072417	WB 7-8, S4, C 072417	WB7-8, S5, A 72517	WB7-8, S5, B 72517	WB7-8, S5, C 72517	W8, S1, C 71317	W8, S2, A 71317	W8, S2, B 71317	W8, S2, C 71317	W8, S3, A 71317	W8, S3, B 71317	W8, S3, C 71317	W9, S1, A 072417	W9, S1, B 072417	W9, S1, C 072417
				Sample Date	7/24/2017	7/24/2017	7/24/2017	7/25/2017	7/25/2017	7/25/2017	7/13/2017	7/13/2017	7/13/2017	7/13/2017	7/13/2017	7/13/2017	7/13/2017	7/24/2017	7/24/2017	7/24/2017
				Lab_Report_Number	180-68509-1	180-68509-1	180-68509-1	180-68556-1	180-68556-1	180-68556-1	180-68219-1	180-68219-1	180-68219-1	180-68219-1	180-68219-1	180-68219-1	180-68219-1	180-68509-1	180-68509-1	180-68509-1
				..																
Group	**Analyte**	**Units**	**EQL**																	
VOCs	1,1,1-trichloroethane	mg/kg	0.0019	0.68	<0.0032U	<0.0036U	-	<0.0037U,F1	<0.0025U	-	-	<0.0019U	<0.002U	-	<0.0022U	<0.0023U	-	<0.0022U	<0.0023U	-
	1,1-dichloroethane	mg/kg	0.0014	0.27	<0.0023U	<0.0026U	-	<0.0027U	<0.0018U	-	-	<0.0014U	<0.0015U	-	<0.0016U	<0.0016U	-	<0.0016U	<0.0017U	-
	1,1-dichloroethene	mg/kg	0.0021	0.33	<0.0037U	<0.0041U	-	<0.0042U	<0.0028U	-	-	<0.0022U	<0.0023U	-	<0.0025U	<0.0026U	-	<0.0025U	<0.0026U	-
	1,2,4-trimethylbenzene	mg/kg	0.001	3.6	<0.0017U	<0.002U	-	<0.002U,F1	<0.0013U	-	-	<0.001U	<0.0011U	-	<0.0012U	<0.0012U	-	<0.0012U	<0.0012U	-
	1,2-dichlorobenzene	mg/kg	0.003	1.1	<0.0052U	<0.0058U	-	<0.0059U	<0.004U	-	-	<0.003U	<0.0032U	-	<0.0035U	<0.0036U	-	<0.0035U	<0.0037U	-
	1,2-dichloroethane	mg/kg	0.0011	0.02	<0.0019U	<0.0021U	-	<0.0021U	<0.0014U	-	-	<0.0011U	<0.0012U	-	<0.0013U	<0.0013U	-	<0.0013U	<0.0013U	-
	1,3,5-trimethylbenzene	mg/kg	0.0013	8.4	<0.0022U	<0.0025U	-	<0.0025U	<0.0017U	-	-	<0.0013U	<0.0014U	-	<0.0015U	<0.0016U	-	<0.0015U	<0.0016U	-
	1,3-dichlorobenzene	mg/kg	0.0012	2.4	<0.0021U	<0.0023U	-	<0.0023U	<0.0016U	-	-	<0.0012U	<0.0013U	-	<0.0014U	<0.0014U	-	<0.0014U	<0.0015U	-
	1,4-dichlorobenzene	mg/kg	0.00077	1.8	<0.0013U	<0.0015U	-	<0.0015U	<0.001U	-	-	<0.00077U	<0.00082U	-	<0.00089U	<0.00092U	-	<0.00089U	<0.00093U	-
	Methyl Ethyl Ketone	mg/kg	0.0022	0.12	<0.0038U	<0.0042U	-	<0.0043U	<0.0029U	-	-	<0.0022U	<0.0023U	-	<0.0025U	<0.0026U	-	<0.0025U	<0.0026U	-
	Acetone	mg/kg	0.0024	0.05	<0.0041U	<0.0046U	-	<0.0046U	<0.0031U	-	-	<0.0024U	<0.0025U	-	<0.0028U	<0.0028U	-	<0.0028U	<0.0029U	-
	Benzene	mg/kg	0.0015	0.06	<0.0025U	<0.0028U	-	<0.0029U	<0.002U	-	-	<0.0015U	<0.0016U	-	<0.0017U	<0.0018U	-	<0.0017U	<0.0018U	-
	Carbon tetrachloride	mg/kg	0.0025	0.76	<0.0043U	<0.0048U	-	<0.0049U,F1	<0.0033U	-	-	<0.0025U	<0.0027U	-	<0.0029U	<0.003U	-	<0.0029U	<0.003U	-
	Chlorobenzene	mg/kg	0.0012	1.1	<0.002U	<0.0023U	-	<0.0023U	<0.0016U	-	-	<0.0012U	<0.0013U	-	<0.0014U	<0.0014U	-	<0.0014U	<0.0014U	-
	Chloroform	mg/kg	0.0016	0.37	<0.0027U	<0.0031U	-	<0.0031U	<0.0021U	-	-	<0.0016U	<0.0017U	-	<0.0018U	<0.0019U	-	<0.0018U	<0.0019U	-
	cis-1,2-dichloroethene	mg/kg	0.0012	0.25	<0.002U	<0.0023U	-	<0.0023U	<0.0016U	-	-	<0.0012U	<0.0013U	-	<0.0014U	<0.0014U	-	<0.0014U	<0.0014U	-
	Dichloromethane	mg/kg	0.0018	0.05	<0.0031U	<0.0034U	-	<0.0035U	<0.0023U	-	-	<0.0018U	<0.0019U	-	<0.0021U	0.0021J	-	<0.0021U	<0.0022U	-
	Ethylbenzene	mg/kg	0.0016	1	<0.0028U	<0.0031U	-	<0.0032U	<0.0021U	-	-	<0.0016U	<0.0017U	-	<0.0019U	<0.0019U	-	<0.0019U	<0.002U	-
	Methyl-tert-butyl ether	mg/kg	0.0028	0.93	<0.0048U	<0.0053U	-	<0.0054U	<0.0037U	-	-	<0.0028U	<0.003U	-	<0.0032U	<0.0033U	-	<0.0032U	<0.0034U	-
	n-butylbenzene	mg/kg	0.0029	12	<0.0049U	<0.0055U	-	<0.0056U	<0.0038U	-	-	<0.0029U	<0.0031U	-	<0.0033U	<0.0034U	-	<0.0033U	<0.0035U	-
	n-propylbenzene	mg/kg	0.0016	3.9	<0.0027U	<0.0031U	-	<0.0031U,F1	<0.0021U	-	-	<0.0016U	<0.0017U	-	<0.0018U	<0.0019U	-	<0.0018U	<0.0019U	-
	sec-butylbenzene	mg/kg	0.0018	11	<0.0032U	<0.0035U	-	<0.0036U	<0.0024U	-	-	<0.0018U	<0.002U	-	<0.0021U	<0.0022U	-	<0.0021U	<0.0022U	-
	Trichloroethene	mg/kg	0.0011	0.47	<0.0019U	<0.0022U	-	<0.0022U	<0.0015U	-	-	<0.0011U	<0.0012U	-	<0.0013U	<0.0014U	-	<0.0013U	<0.0014U	-
	tert-butylbenzene	mg/kg	0.0014	5.9	<0.0024U	<0.0027U	-	<0.0027U	<0.0018U	-	-	<0.0014U	<0.0015U	-	<0.0016U	<0.0017U	-	<0.0016U	<0.0017U	-
	Tetrachloroethene	mg/kg	0.0015	1.3	<0.0026U	<0.0029U	-	<0.0029U	<0.002U	-	-	<0.0015U	<0.0016U	-	<0.0017U	<0.0018U	-	<0.0017U	<0.0018U	-
	Toluene	mg/kg	0.0013	0.7	<0.0022U	<0.0024U	-	<0.0025U	<0.0017U	-	-	<0.0013U	<0.0014U	-	<0.0015U	<0.0015U	-	<0.0015U	<0.0015U	-
	trans-1,2-dichloroethene	mg/kg	0.0019	0.19	<0.0033U	<0.0037U	-	<0.0037U	<0.0025U	-	-	<0.0019U	<0.002U	-	<0.0022U	<0.0023U	-	<0.0022U	<0.0023U	-
	Vinyl chloride	mg/kg	0.0028	0.02	<0.0048U	<0.0053U	-	<0.0054U	<0.0036U	-	-	<0.0028U	<0.003U	-	<0.0032U	<0.0033U	-	<0.0032U	<0.0033U	-
	Xylene Total	mg/kg	0.0032	1.6	<0.0056U	<0.0063U	-	<0.0063U	<0.0043U	-	-	<0.0033U	<0.0035U	-	<0.0038U	<0.0039U	-	<0.0038U	<0.0039U	-

DATA QUALIFIER DEFINITIONS

U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J	The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
J+	The analyte was positively identified; however, the associated numerical value is likely to be higher that the concentration of the analyte in the
J-	The analyte was positively identified; however, the associated numerical value is likely to be lower that the concentration of the analyte in the
UJ	The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or

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THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pittsburgh
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Tel: (412)963-7058

TestAmerica Job ID: 180-68219-1
Client Project/Site: Former Sperry Remington Site - North IRM
Revision: 1

For:
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Attn: Mr. Aron Krasnopoler

Authorized for release by:
7/27/2017 10:52:01 AM

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Job ID: 180-68219-1

Laboratory: TestAmerica Pittsburgh

Narrative

Job Narrative
180-68219-1

Comments
This is a revised report. At the request of the client, 2,4-dinitrotoluene, hexachlorobutadiene, hexachloroethane, nitrobenzene, pyridine, 2,4,5-trichlorophenol, and 2,4,6-trichlorophenol are now reported in the semivolatiles analysis.

Method(s) 8270D LL: The matrix spike duplicate (MSD) of sample W6, S4, C 071317 (180-68219-12) had the recovery of pyridine slightly below the control limits.

Receipt
The samples were received on 7/15/2017 9:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 8 coolers at receipt time were 2.4º C, 2.6º C, 3.1º C, 3.1º C, 3.6º C, 3.6º C, 3.7º C and 4.8º C.

Trip Blank 4 was received, but was not listed on the COCs.

The container labels for the MS/MSD of sample W4, S4, A 71317 (180-68219-44) had a time of 15:45, where as the COC listed 15:15 The container labels list a collection time of 1545, while the parent sample says 1515. The COC lists a sample collection time of 1515 as well.

The results of the volatiles samples, IDs beginning with “W4”, are reported in job 180-68219-2.

GC/MS VOA
Method(s) 8260C: Several RPDs between the matrix spike/matrix spike duplicate (MS/MSD) of sample W8, S3, B 71317 (180-68219-38) were above the control limits. The recoveries were within the control limits.

Method(s) 8260C: The continuing calibration verification (CCV) analyzed in 180-217322 was above criteria for the following analyte: vinyl chloride. As the CCV was high and vinyl chloride was not detected in the associated samples, the results were reported.

Method(s) 8260C: The continuing calibration verification (CCV) analyzed in batch 180-217610 was below criteria for the following analyte: carbon tetrachloride. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte is considered estimated. Carbon tetrachloride was not detected in the associated samples.

Method(s) 8260C: The continuing calibration verification (CCV) analyzed in 180-217455 was above criteria for the following analytes: n-butylbenzene and vinyl chloride. As the CCV was high and these analytes were not detected in the associated samples, the results were reported.

Method(s) 8260C: The continuing calibration verification (CCV) analyzed in batch 180-217455 was below criteria for the following analyte: carbon tetrachloride. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte is considered estimated. Carbon tetrachloride was not detected in the associated samples.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method(s) 8270D LL: The following samples were diluted to bring the concentration of target analytes within the calibration range: W7, S2, C 71317 (180-68219-27), W7, S1, C 71317 (180-68219-30), and W8, S3, C 71317 (180-68219-39). Elevated reporting limits (RLs) are provided. Sample W7, S2, C 71317 (180-68219-27) had the surrogates diluted out.

Method(s) 8270D LL: The following samples was diluted due to the nature of the sample matrix (viscous extracts and dark in color): W6, S1, C 071317 (180-68219-3) and its matrix spikes, W6, S2, C 071317 (180-68219-6), W6, S3, C 071317 (180-68219-9), W6, S4, C 071317 (180-68219-12), W6, S5, C 071317 (180-68219-15), W7, S4, C 71317 (180-68219-21), W8, S1, C 71317 (180-68219-33), W8, S2, C 71317 (180-68219-36), and DUP-10 (180-68219-54). Elevated reporting limits (RLs) are provided.

Job ID: 180-68219-1 (Continued)

Laboratory: TestAmerica Pittsburgh (Continued)

Method(s) 8270D LL: The matrix spike/matrix spike duplicate (MS/MSD) of sample W6, S1, C 071317 (180-68219-3) had several recoveries and RPDs between the spikes outside of the control limits. The recoveries of the laboratory control sample (LCS) were within the control limits.

Method(s) 8270D LL: The continuing calibration verification (CCV) analyzed in batch 180-217242 was above criteria for the following analyte: pentachlorophenol. As the CCV was high and this analyte was not detected in the associated samples, the results were reported.

Method(s) 8270D LL: The continuing calibration verification (CCV) analyzed in batch 180-217242 was below criteria for the following analyte: benzo[g,h,i]perylene. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte is considered estimated.

Method(s) 8270D LL: The continuing calibration verification (CCV) analyzed in 180-217155 was above criteria for the following analytes: 1,4-dioxane and pentachlorophenol. As the CCV was high and these analytes were not detected in the associated sample, the results were reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals
Method(s) 7471B: The RPD between the matrix spike/matrix spike duplicate (MS/MSD) of sample W6, S1, C 71317 (180-68219-3) was above the control limits for mercury. The recoveries were within the control limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance limits.
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
X	Surrogate is outside control limits
F2	MS/MSD RPD exceeds control limits
E	Result exceeded calibration range.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F2	MS/MSD RPD exceeds control limits
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

General Chemistry

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc. TestAmerica Job ID: 180-68219-1
Project/Site: Former Sperry Remington Site - North IRM

Laboratory: TestAmerica Pittsburgh

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	11182	03-31-18

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
2540G		Solid	Percent Moisture
2540G		Solid	Percent Solids
8270D LL	3541	Solid	1,4-Dioxane

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68219-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-68219-1	W6, S1, A 071317	Solid	07/13/17 08:00	07/14/17 13:15
180-68219-2	W6, S1, B 071317	Solid	07/13/17 08:05	07/14/17 13:15
180-68219-3	W6, S1, C 071317	Solid	07/13/17 08:10	07/14/17 13:15
180-68219-4	W6, S2, A 071317	Solid	07/13/17 08:20	07/14/17 13:15
180-68219-5	W6, S2, B 071317	Solid	07/13/17 08:25	07/14/17 13:15
180-68219-6	W6, S2, C 071317	Solid	07/13/17 08:30	07/14/17 13:15
180-68219-7	W6, S3, A 071317	Solid	07/13/17 08:45	07/14/17 13:15
180-68219-8	W6, S3, B 071317	Solid	07/13/17 08:50	07/14/17 13:15
180-68219-9	W6, S3, C 071317	Solid	07/13/17 08:55	07/15/17 09:15
180-68219-10	W6, S4, A 071317	Solid	07/13/17 09:15	07/14/17 13:15
180-68219-11	W6, S4, B 071317	Solid	07/13/17 09:20	07/14/17 13:15
180-68219-12	W6, S4, C 071317	Solid	07/13/17 09:25	07/14/17 13:15
180-68219-13	W6, S5, A 071317	Solid	07/13/17 09:45	07/14/17 13:15
180-68219-14	W6, S5, B 071317	Solid	07/13/17 09:55	07/14/17 13:15
180-68219-15	W6, S5, C 071317	Solid	07/13/17 10:00	07/14/17 13:15
180-68219-16	W7, S5, A 71317	Solid	07/13/17 10:15	07/14/17 13:15
180-68219-17	W7, S5, B 71317	Solid	07/13/17 10:20	07/14/17 13:15
180-68219-18	W7, S5, C 71317	Solid	07/13/17 10:25	07/14/17 13:15
180-68219-19	W7, S4, A 71317	Solid	07/13/17 10:45	07/14/17 13:15
180-68219-20	W7, S4, B 71317	Solid	07/13/17 10:50	07/14/17 13:15
180-68219-21	W7, S4, C 71317	Solid	07/13/17 10:55	07/14/17 13:15
180-68219-22	W7, S3, A 71317	Solid	07/13/17 11:30	07/14/17 13:15
180-68219-23	W7, S3, B 71317	Solid	07/13/17 11:35	07/14/17 13:15
180-68219-24	W7, S3, C 71317	Solid	07/13/17 11:40	07/14/17 13:15
180-68219-25	W7, S2, A 71317	Solid	07/13/17 11:55	07/14/17 13:15
180-68219-26	W7, S2, B 71317	Solid	07/13/17 12:00	07/14/17 13:15
180-68219-27	W7, S2, C 71317	Solid	07/13/17 12:05	07/14/17 13:15
180-68219-28	W7, S1, A 71317	Solid	07/13/17 12:15	07/14/17 13:15
180-68219-29	W7, S1, B 71317	Solid	07/13/17 12:20	07/14/17 13:15
180-68219-30	W7, S1, C 71317	Solid	07/13/17 12:25	07/14/17 13:15
180-68219-31	W8, S1, A 71317	Solid	07/13/17 12:45	07/14/17 13:15
180-68219-32	W8, S1, B 71317	Solid	07/13/17 12:50	07/14/17 13:15
180-68219-33	W8, S1, C 71317	Solid	07/13/17 12:55	07/14/17 13:15
180-68219-34	W8, S2, A 71317	Solid	07/13/17 13:15	07/14/17 13:15
180-68219-35	W8, S2, B 71317	Solid	07/13/17 13:20	07/14/17 13:15
180-68219-36	W8, S2, C 71317	Solid	07/13/17 13:25	07/14/17 13:15
180-68219-37	W8, S3, A 71317	Solid	07/13/17 13:45	07/14/17 13:15
180-68219-38	W8, S3, B 71317	Solid	07/13/17 13:50	07/14/17 13:15
180-68219-39	W8, S3, C 71317	Solid	07/13/17 13:55	07/14/17 13:15
180-68219-50	DUP-11	Solid	07/13/17 00:00	07/14/17 13:15
180-68219-51	DUP-12	Solid	07/13/17 00:00	07/14/17 13:15
180-68219-52	DUP-13	Solid	07/13/17 00:00	07/14/17 13:15
180-68219-53	DUP-9	Solid	07/13/17 00:00	07/14/17 13:15
180-68219-54	DUP-10	Solid	07/13/17 00:00	07/14/17 13:15
180-68219-55	TRIP BLANK 1	Water	07/13/17 00:00	07/14/17 13:15
180-68219-56	TRIP BLANK 2	Water	07/13/17 00:00	07/14/17 13:15
180-68219-57	TRIP BLANK 3	Water	07/13/17 00:00	07/14/17 13:15
180-68219-58	TRIP BLANK 4	Water	07/13/17 00:00	07/14/17 13:15

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68219-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL PIT
8260C	Volatile Organic Compounds (GC/MS)	SW846	TAL PIT
8270D LL	Semivolatile Organic Compounds by GC/MS - Low Level	SW846	TAL PIT
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL PIT
6010C	Metals (ICP)	SW846	TAL PIT
7471B	Mercury (CVAA)	SW846	TAL PIT
2540G	SM 2540G	SM22	TAL PIT
9014	Cyanide	SW846	TAL PIT

Protocol References:

SM22 = SM22

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68219-1

Client Sample ID: W6, S1, A 071317
Date Collected: 07/13/17 08:00
Date Received: 07/14/17 13:15

Lab Sample ID: 180-68219-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			217297	07/17/17 14:15	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W6, S1, A 071317
Date Collected: 07/13/17 08:00
Date Received: 07/14/17 13:15

Lab Sample ID: 180-68219-1
Matrix: Solid
Percent Solids: 92.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.8966 g	5 mL	217488	07/19/17 05:28	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	217471	07/19/17 08:52	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W6, S1, B 071317
Date Collected: 07/13/17 08:05
Date Received: 07/14/17 13:15

Lab Sample ID: 180-68219-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			217173	07/15/17 11:55	JWS	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W6, S1, B 071317
Date Collected: 07/13/17 08:05
Date Received: 07/14/17 13:15

Lab Sample ID: 180-68219-2
Matrix: Solid
Percent Solids: 91.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.7116 g	5 mL	217488	07/19/17 05:28	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	217471	07/19/17 09:39	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W6, S1, C 071317
Date Collected: 07/13/17 08:10
Date Received: 07/14/17 13:15

Lab Sample ID: 180-68219-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			217173	07/15/17 11:55	JWS	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W6, S1, C 071317
Date Collected: 07/13/17 08:10
Date Received: 07/14/17 13:15

Lab Sample ID: 180-68219-3
Matrix: Solid
Percent Solids: 94.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	0.5 mL	217139	07/15/17 04:42	BAP	TAL PIT

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68219-1

Client Sample ID: W6, S1, C 071317

Lab Sample ID: 180-68219-3
Date Collected: 07/13/17 08:10
Matrix: Solid
Date Received: 07/14/17 13:15
Percent Solids: 94.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8270D LL		3	1 mL	1 mL	217155	07/15/17 11:52	DLF	TAL PIT
	Instrument ID: CH71									
Total/NA	Prep	3541			15.3 g	20.0 mL	217194	07/16/17 13:30	MAL	TAL PIT
Total/NA	Analysis	8082A		1			217206	07/17/17 10:57	JMO	TAL PIT
	Instrument ID: CHGC10									
Total/NA	Cleanup	3665A			2 mL	2 mL	217332	07/18/17 06:49	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	217333	07/18/17 06:50	JMO	TAL PIT
Total/NA	Prep	3050B			1.01 g	100 mL	217374	07/18/17 10:32	ANA	TAL PIT
Total/NA	Analysis	6010C		1			217700	07/20/17 12:39	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.60 g	100 mL	217423	07/18/17 14:51	RJR	TAL PIT
Total/NA	Analysis	7471B		1			217578	07/19/17 12:36	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.12 g	50 mL	217382	07/18/17 10:56	JAS	TAL PIT
Total/NA	Analysis	9014		1			217445	07/18/17 14:30	JAS	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: W6, S2, A 071317

Lab Sample ID: 180-68219-4
Date Collected: 07/13/17 08:20
Matrix: Solid
Date Received: 07/14/17 13:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			217173	07/15/17 11:55	JWS	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W6, S2, A 071317

Lab Sample ID: 180-68219-4
Date Collected: 07/13/17 08:20
Matrix: Solid
Date Received: 07/14/17 13:15
Percent Solids: 90.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.3089 g	5 mL	217488	07/19/17 05:28	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	217471	07/19/17 10:52	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W6, S2, B 071317

Lab Sample ID: 180-68219-5
Date Collected: 07/13/17 08:25
Matrix: Solid
Date Received: 07/14/17 13:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			217173	07/15/17 11:55	JWS	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W6, S2, B 071317

Lab Sample ID: 180-68219-5
Date Collected: 07/13/17 08:25
Matrix: Solid
Date Received: 07/14/17 13:15
Percent Solids: 92.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.92 g	5 mL	217488	07/19/17 05:28	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	217471	07/19/17 11:15	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W6, S2, C 071317

Lab Sample ID: 180-68219-6
Date Collected: 07/13/17 08:30
Matrix: Solid
Date Received: 07/14/17 13:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			217280	07/17/17 12:16	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W6, S2, C 071317

Lab Sample ID: 180-68219-6
Date Collected: 07/13/17 08:30
Matrix: Solid
Date Received: 07/14/17 13:15
Percent Solids: 88.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.2 g	0.5 mL	217139	07/15/17 04:42	BAP	TAL PIT
Total/NA	Analysis	8270D LL		3	1 mL	1 mL	217242	07/17/17 13:38	DLF	TAL PIT
	Instrument ID: CH71									
Total/NA	Prep	3541			15.0 g	20.0 mL	217194	07/16/17 13:30	MAL	TAL PIT
Total/NA	Analysis	8082A		1			217206	07/17/17 12:35	JMO	TAL PIT
	Instrument ID: CHGC10									
Total/NA	Cleanup	3665A			2 mL	2 mL	217332	07/18/17 06:49	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	217333	07/18/17 06:50	JMO	TAL PIT
Total/NA	Prep	3050B			1.05 g	100 mL	217374	07/18/17 10:32	ANA	TAL PIT
Total/NA	Analysis	6010C		1			217700	07/20/17 13:04	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.63 g	100 mL	217423	07/18/17 14:51	RJR	TAL PIT
Total/NA	Analysis	7471B		1			217578	07/19/17 12:46	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.03 g	50 mL	217382	07/18/17 10:56	JAS	TAL PIT
Total/NA	Analysis	9014		1			217445	07/18/17 14:35	JAS	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: W6, S3, A 071317

Lab Sample ID: 180-68219-7
Date Collected: 07/13/17 08:45
Matrix: Solid
Date Received: 07/14/17 13:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			217297	07/17/17 14:15	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W6, S3, A 071317
Date Collected: 07/13/17 08:45
Date Received: 07/14/17 13:15

Lab Sample ID: 180-68219-7
Matrix: Solid
Percent Solids: 87.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.9168 g	5 mL	217488	07/19/17 05:28	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	217471	07/19/17 11:38	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W6, S3, B 071317
Date Collected: 07/13/17 08:50
Date Received: 07/14/17 13:15

Lab Sample ID: 180-68219-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			217297	07/17/17 14:15	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W6, S3, B 071317
Date Collected: 07/13/17 08:50
Date Received: 07/14/17 13:15

Lab Sample ID: 180-68219-8
Matrix: Solid
Percent Solids: 87.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.6099 g	5 mL	217488	07/19/17 05:28	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	217471	07/19/17 12:00	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W6, S3, C 071317
Date Collected: 07/13/17 08:55
Date Received: 07/15/17 09:15

Lab Sample ID: 180-68219-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			217280	07/17/17 12:16	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W6, S3, C 071317
Date Collected: 07/13/17 08:55
Date Received: 07/15/17 09:15

Lab Sample ID: 180-68219-9
Matrix: Solid
Percent Solids: 88.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.1 g	0.5 mL	217195	07/16/17 13:37	MAL	TAL PIT
Total/NA	Analysis	8270D LL		10	1 mL	1 mL	217231	07/17/17 12:37	VVP	TAL PIT
	Instrument ID: CH733									
Total/NA	Prep	3541			15.2 g	20.0 mL	217194	07/16/17 13:30	MAL	TAL PIT
Total/NA	Analysis	8082A		1			217206	07/17/17 12:55	JMO	TAL PIT
	Instrument ID: CHGC10									
Total/NA	Cleanup	3665A			2 mL	2 mL	217332	07/18/17 06:49	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	217333	07/18/17 06:50	JMO	TAL PIT
Total/NA	Prep	3050B			1.02 g	100 mL	217374	07/18/17 10:32	ANA	TAL PIT

Client Sample ID: W6, S3, C 071317

Lab Sample ID: 180-68219-9
Date Collected: 07/13/17 08:55
Matrix: Solid
Date Received: 07/15/17 09:15
Percent Solids: 88.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	6010C		1			217700	07/20/17 13:10	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.57 g	100 mL	217423	07/18/17 14:51	RJR	TAL PIT
Total/NA	Analysis	7471B		1			217578	07/19/17 13:14	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.1 g	50 mL	217382	07/18/17 10:56	JAS	TAL PIT
Total/NA	Analysis	9014		1			217445	07/18/17 14:37	JAS	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: W6, S4, A 071317

Lab Sample ID: 180-68219-10
Date Collected: 07/13/17 09:15
Matrix: Solid
Date Received: 07/14/17 13:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			217297	07/17/17 14:15	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W6, S4, A 071317

Lab Sample ID: 180-68219-10
Date Collected: 07/13/17 09:15
Matrix: Solid
Date Received: 07/14/17 13:15
Percent Solids: 90.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.0717 g	5 mL	217488	07/19/17 05:28	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	217471	07/19/17 12:23	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W6, S4, B 071317

Lab Sample ID: 180-68219-11
Date Collected: 07/13/17 09:20
Matrix: Solid
Date Received: 07/14/17 13:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			217297	07/17/17 14:15	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W6, S4, B 071317

Lab Sample ID: 180-68219-11
Date Collected: 07/13/17 09:20
Matrix: Solid
Date Received: 07/14/17 13:15
Percent Solids: 87.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.6079 g	5 mL	217488	07/19/17 05:28	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	217471	07/19/17 12:46	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W6, S4, C 071317
Date Collected: 07/13/17 09:25
Date Received: 07/14/17 13:15

Lab Sample ID: 180-68219-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			217297	07/17/17 14:15	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W6, S4, C 071317
Date Collected: 07/13/17 09:25
Date Received: 07/14/17 13:15

Lab Sample ID: 180-68219-12
Matrix: Solid
Percent Solids: 90.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.2 g	0.5 mL	217309	07/18/17 03:38	BAP	TAL PIT
Total/NA	Analysis	8270D LL		4	1 mL	1 mL	217354	07/18/17 18:02	VVP	TAL PIT
	Instrument ID: CH733									
Total/NA	Prep	3541			15.3 g	20.0 mL	217313	07/18/17 03:42	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	217365	07/18/17 10:10	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	217366	07/18/17 10:11	JMO	TAL PIT
Total/NA	Analysis	8082A		1	1 mL	1.0 mL	217334	07/18/17 10:46	JMO	TAL PIT
	Instrument ID: CHGC10									
Total/NA	Prep	3050B			0.98 g	100 mL	217374	07/18/17 10:32	ANA	TAL PIT
Total/NA	Analysis	6010C		1			217700	07/20/17 13:15	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.59 g	100 mL	217423	07/18/17 14:51	RJR	TAL PIT
Total/NA	Analysis	7471B		1			217578	07/19/17 12:48	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.09 g	50 mL	217382	07/18/17 10:56	JAS	TAL PIT
Total/NA	Analysis	9014		1			217445	07/18/17 14:42	JAS	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: W6, S5, A 071317
Date Collected: 07/13/17 09:45
Date Received: 07/14/17 13:15

Lab Sample ID: 180-68219-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			217297	07/17/17 14:15	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W6, S5, A 071317
Date Collected: 07/13/17 09:45
Date Received: 07/14/17 13:15

Lab Sample ID: 180-68219-13
Matrix: Solid
Percent Solids: 91.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.5737 g	5 mL	217616	07/20/17 05:54	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	217610	07/20/17 11:31	KLG	TAL PIT
	Instrument ID: CHHP3									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68219-1

Client Sample ID: W6, S5, B 071317
Date Collected: 07/13/17 09:55
Date Received: 07/14/17 13:15

Lab Sample ID: 180-68219-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			217297	07/17/17 14:15	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W6, S5, B 071317
Date Collected: 07/13/17 09:55
Date Received: 07/14/17 13:15

Lab Sample ID: 180-68219-14
Matrix: Solid
Percent Solids: 90.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.2959 g	5 mL	217616	07/20/17 05:54	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	217610	07/20/17 11:09	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W6, S5, C 071317
Date Collected: 07/13/17 10:00
Date Received: 07/14/17 13:15

Lab Sample ID: 180-68219-15
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			217280	07/17/17 12:16	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W6, S5, C 071317
Date Collected: 07/13/17 10:00
Date Received: 07/14/17 13:15

Lab Sample ID: 180-68219-15
Matrix: Solid
Percent Solids: 91.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.4 g	0.5 mL	217139	07/15/17 04:42	BAP	TAL PIT
Total/NA	Analysis	8270D LL		4	1 mL	1 mL	217242	07/17/17 14:06	DLF	TAL PIT
	Instrument ID: CH71									
Total/NA	Prep	3541			15.0 g	20.0 mL	217194	07/16/17 13:30	MAL	TAL PIT
Total/NA	Analysis	8082A		1			217206	07/17/17 13:16	JMO	TAL PIT
	Instrument ID: CHGC10									
Total/NA	Cleanup	3665A			2 mL	2 mL	217332	07/18/17 06:49	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	217333	07/18/17 06:50	JMO	TAL PIT
Total/NA	Prep	3050B			1.00 g	100 mL	217374	07/18/17 10:32	ANA	TAL PIT
Total/NA	Analysis	6010C		1			217700	07/20/17 13:30	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.62 g	100 mL	217423	07/18/17 14:51	RJR	TAL PIT
Total/NA	Analysis	7471B		1			217578	07/19/17 12:50	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.13 g	50 mL	217382	07/18/17 10:56	JAS	TAL PIT
Total/NA	Analysis	9014		1			217445	07/18/17 14:44	JAS	TAL PIT
	Instrument ID: SEAL2									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68219-1

Client Sample ID: W7, S5, A 71317
Date Collected: 07/13/17 10:15
Date Received: 07/14/17 13:15

Lab Sample ID: 180-68219-16
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			217297	07/17/17 14:15	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W7, S5, A 71317
Date Collected: 07/13/17 10:15
Date Received: 07/14/17 13:15

Lab Sample ID: 180-68219-16
Matrix: Solid
Percent Solids: 92.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.519 g	5 mL	217616	07/20/17 05:54	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	217610	07/20/17 10:46	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W7, S5, B 71317
Date Collected: 07/13/17 10:20
Date Received: 07/14/17 13:15

Lab Sample ID: 180-68219-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			217297	07/17/17 14:15	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W7, S5, B 71317
Date Collected: 07/13/17 10:20
Date Received: 07/14/17 13:15

Lab Sample ID: 180-68219-17
Matrix: Solid
Percent Solids: 93.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.8844 g	5 mL	217616	07/20/17 05:54	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	217610	07/20/17 10:23	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W7, S5, C 71317
Date Collected: 07/13/17 10:25
Date Received: 07/14/17 13:15

Lab Sample ID: 180-68219-18
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			217280	07/17/17 12:16	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W7, S5, C 71317
Date Collected: 07/13/17 10:25
Date Received: 07/14/17 13:15

Lab Sample ID: 180-68219-18
Matrix: Solid
Percent Solids: 91.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.5 g	0.5 mL	217139	07/15/17 04:42	BAP	TAL PIT

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68219-1

Client Sample ID: W7, S5, C 71317

Lab Sample ID: 180-68219-18
Date Collected: 07/13/17 10:25
Matrix: Solid
Date Received: 07/14/17 13:15
Percent Solids: 91.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8270D LL		1	1 mL	1 mL	217242	07/17/17 14:33	DLF	TAL PIT
	Instrument ID: CH71									
Total/NA	Prep	3541			15.2 g	20.0 mL	217194	07/16/17 13:30	MAL	TAL PIT
Total/NA	Analysis	8082A		1			217206	07/17/17 13:36	JMO	TAL PIT
	Instrument ID: CHGC10									
Total/NA	Cleanup	3665A			2 mL	2 mL	217332	07/18/17 06:49	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	217333	07/18/17 06:50	JMO	TAL PIT
Total/NA	Prep	3050B			0.95 g	100 mL	217374	07/18/17 10:32	ANA	TAL PIT
Total/NA	Analysis	6010C		1			217700	07/20/17 13:35	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.57 g	100 mL	217423	07/18/17 14:51	RJR	TAL PIT
Total/NA	Analysis	7471B		1			217578	07/19/17 12:52	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.04 g	50 mL	217382	07/18/17 10:56	JAS	TAL PIT
Total/NA	Analysis	9014		1			217445	07/18/17 14:45	JAS	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: W7, S4, A 71317

Lab Sample ID: 180-68219-19
Date Collected: 07/13/17 10:45
Matrix: Solid
Date Received: 07/14/17 13:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			217297	07/17/17 14:15	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W7, S4, A 71317

Lab Sample ID: 180-68219-19
Date Collected: 07/13/17 10:45
Matrix: Solid
Date Received: 07/14/17 13:15
Percent Solids: 93.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.5914 g	5 mL	217616	07/20/17 05:54	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	217610	07/20/17 10:01	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W7, S4, B 71317

Lab Sample ID: 180-68219-20
Date Collected: 07/13/17 10:50
Matrix: Solid
Date Received: 07/14/17 13:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			217297	07/17/17 14:15	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68219-1

Client Sample ID: W7, S4, B 71317

Lab Sample ID: 180-68219-20
Date Collected: 07/13/17 10:50
Matrix: Solid
Date Received: 07/14/17 13:15
Percent Solids: 92.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.5179 g	5 mL	217488	07/19/17 05:28	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	217471	07/19/17 16:57	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W7, S4, C 71317

Lab Sample ID: 180-68219-21
Date Collected: 07/13/17 10:55
Matrix: Solid
Date Received: 07/14/17 13:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			217297	07/17/17 14:15	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W7, S4, C 71317

Lab Sample ID: 180-68219-21
Date Collected: 07/13/17 10:55
Matrix: Solid
Date Received: 07/14/17 13:15
Percent Solids: 91.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.4 g	0.5 mL	217309	07/18/17 03:38	BAP	TAL PIT
Total/NA	Analysis	8270D LL		5	1 mL	1 mL	217354	07/18/17 19:23	VVP	TAL PIT
	Instrument ID: CH733									
Total/NA	Prep	3541			15.2 g	20.0 mL	217313	07/18/17 03:42	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	217365	07/18/17 10:10	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	217366	07/18/17 10:11	JMO	TAL PIT
Total/NA	Analysis	8082A		1	1 mL	1.0 mL	217334	07/18/17 11:07	JMO	TAL PIT
	Instrument ID: CHGC10									
Total/NA	Prep	3050B			1.00 g	100 mL	217374	07/18/17 10:32	ANA	TAL PIT
Total/NA	Analysis	6010C		1			217700	07/20/17 13:41	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.58 g	100 mL	217423	07/18/17 14:51	RJR	TAL PIT
Total/NA	Analysis	7471B		1			217578	07/19/17 12:54	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.05 g	50 mL	217382	07/18/17 10:56	JAS	TAL PIT
Total/NA	Analysis	9014		1			217445	07/18/17 14:47	JAS	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: W7, S3, A 71317

Lab Sample ID: 180-68219-22
Date Collected: 07/13/17 11:30
Matrix: Solid
Date Received: 07/14/17 13:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			217297	07/17/17 14:15	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W7, S3, A 71317

Lab Sample ID: 180-68219-22
Date Collected: 07/13/17 11:30
Matrix: Solid
Date Received: 07/14/17 13:15
Percent Solids: 90.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.529 g	5 mL	217488	07/19/17 05:28	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	217471	07/19/17 16:34	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W7, S3, B 71317

Lab Sample ID: 180-68219-23
Date Collected: 07/13/17 11:35
Matrix: Solid
Date Received: 07/14/17 13:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			217297	07/17/17 14:15	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W7, S3, B 71317

Lab Sample ID: 180-68219-23
Date Collected: 07/13/17 11:35
Matrix: Solid
Date Received: 07/14/17 13:15
Percent Solids: 89.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.2191 g	5 mL	217488	07/19/17 05:28	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	217471	07/19/17 16:11	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W7, S3, C 71317

Lab Sample ID: 180-68219-24
Date Collected: 07/13/17 11:40
Matrix: Solid
Date Received: 07/14/17 13:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			217280	07/17/17 12:16	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W7, S3, C 71317

Lab Sample ID: 180-68219-24
Date Collected: 07/13/17 11:40
Matrix: Solid
Date Received: 07/14/17 13:15
Percent Solids: 89.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.1 g	0.5 mL	217139	07/15/17 04:42	BAP	TAL PIT
Total/NA	Analysis	8270D LL		1	1 mL	1 mL	217242	07/17/17 15:01	DLF	TAL PIT
	Instrument ID: CH71									
Total/NA	Prep	3541			15.0 g	20.0 mL	217194	07/16/17 13:30	MAL	TAL PIT
Total/NA	Analysis	8082A		1			217206	07/17/17 13:56	JMO	TAL PIT
	Instrument ID: CHGC10									
Total/NA	Cleanup	3665A			2 mL	2 mL	217332	07/18/17 06:49	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	217333	07/18/17 06:50	JMO	TAL PIT
Total/NA	Prep	3050B			0.94 g	100 mL	217374	07/18/17 10:32	ANA	TAL PIT

Client Sample ID: W7, S3, C 71317

Lab Sample ID: 180-68219-24
Date Collected: 07/13/17 11:40
Matrix: Solid
Date Received: 07/14/17 13:15
Percent Solids: 89.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	6010C		1			217700	07/20/17 13:46	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.52 g	100 mL	217423	07/18/17 14:51	RJR	TAL PIT
Total/NA	Analysis	7471B		1			217578	07/19/17 12:56	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.11 g	50 mL	217382	07/18/17 10:56	JAS	TAL PIT
Total/NA	Analysis	9014		1			217445	07/18/17 14:49	JAS	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: W7, S2, A 71317

Lab Sample ID: 180-68219-25
Date Collected: 07/13/17 11:55
Matrix: Solid
Date Received: 07/14/17 13:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			217297	07/17/17 14:15	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W7, S2, A 71317

Lab Sample ID: 180-68219-25
Date Collected: 07/13/17 11:55
Matrix: Solid
Date Received: 07/14/17 13:15
Percent Solids: 90.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.6714 g	5 mL	217488	07/19/17 05:28	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	217471	07/19/17 15:48	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W7, S2, B 71317

Lab Sample ID: 180-68219-26
Date Collected: 07/13/17 12:00
Matrix: Solid
Date Received: 07/14/17 13:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			217297	07/17/17 14:15	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W7, S2, B 71317

Lab Sample ID: 180-68219-26
Date Collected: 07/13/17 12:00
Matrix: Solid
Date Received: 07/14/17 13:15
Percent Solids: 87.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.4709 g	5 mL	217488	07/19/17 05:28	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	217471	07/19/17 15:26	KLG	TAL PIT
	Instrument ID: CHHP3									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68219-1

Client Sample ID: W7, S2, C 71317
Date Collected: 07/13/17 12:05
Date Received: 07/14/17 13:15

Lab Sample ID: 180-68219-27
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			217280	07/17/17 12:16	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W7, S2, C 71317
Date Collected: 07/13/17 12:05
Date Received: 07/14/17 13:15

Lab Sample ID: 180-68219-27
Matrix: Solid
Percent Solids: 89.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	0.5 mL	217139	07/15/17 04:42	BAP	TAL PIT
Total/NA	Analysis	8270D LL		100	1 mL	1 mL	217242	07/17/17 15:28	DLF	TAL PIT
	Instrument ID: CH71									
Total/NA	Prep	3541			15.3 g	20.0 mL	217194	07/16/17 13:30	MAL	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	217332	07/18/17 06:49	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	217333	07/18/17 06:50	JMO	TAL PIT
Total/NA	Analysis	8082A		1	1 mL	1.0 mL	217334	07/18/17 09:07	JMO	TAL PIT
	Instrument ID: CHGC10									
Total/NA	Prep	3050B			1.06 g	100 mL	217374	07/18/17 10:32	ANA	TAL PIT
Total/NA	Analysis	6010C		1			217700	07/20/17 13:51	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.67 g	100 mL	217423	07/18/17 14:51	RJR	TAL PIT
Total/NA	Analysis	7471B		1			217578	07/19/17 12:58	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.13 g	50 mL	217382	07/18/17 10:56	JAS	TAL PIT
Total/NA	Analysis	9014		1			217445	07/18/17 14:51	JAS	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: W7, S1, A 71317
Date Collected: 07/13/17 12:15
Date Received: 07/14/17 13:15

Lab Sample ID: 180-68219-28
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			217297	07/17/17 14:15	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W7, S1, A 71317
Date Collected: 07/13/17 12:15
Date Received: 07/14/17 13:15

Lab Sample ID: 180-68219-28
Matrix: Solid
Percent Solids: 90.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			7.2795 g	5 mL	217488	07/19/17 05:28	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	217471	07/19/17 15:02	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W7, S1, B 71317
Date Collected: 07/13/17 12:20
Date Received: 07/14/17 13:15

Lab Sample ID: 180-68219-29
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			217301	07/17/17 15:21	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W7, S1, B 71317
Date Collected: 07/13/17 12:20
Date Received: 07/14/17 13:15

Lab Sample ID: 180-68219-29
Matrix: Solid
Percent Solids: 91.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			7.2832 g	5 mL	217488	07/19/17 05:28	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	217471	07/19/17 14:40	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W7, S1, C 71317
Date Collected: 07/13/17 12:25
Date Received: 07/14/17 13:15

Lab Sample ID: 180-68219-30
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			217280	07/17/17 12:16	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W7, S1, C 71317
Date Collected: 07/13/17 12:25
Date Received: 07/14/17 13:15

Lab Sample ID: 180-68219-30
Matrix: Solid
Percent Solids: 90.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.3 g	0.5 mL	217139	07/15/17 04:42	BAP	TAL PIT
Total/NA	Analysis	8270D LL		10	1 mL	1 mL	217242	07/17/17 15:56	DLF	TAL PIT
	Instrument ID: CH71									
Total/NA	Prep	3541			15.2 g	20.0 mL	217194	07/16/17 13:30	MAL	TAL PIT
Total/NA	Analysis	8082A		1			217206	07/17/17 14:36	JMO	TAL PIT
	Instrument ID: CHGC10									
Total/NA	Cleanup	3665A			2 mL	2 mL	217332	07/18/17 06:49	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	217333	07/18/17 06:50	JMO	TAL PIT
Total/NA	Prep	3050B			0.96 g	100 mL	217374	07/18/17 10:32	ANA	TAL PIT
Total/NA	Analysis	6010C		1			217700	07/20/17 13:56	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.58 g	100 mL	217423	07/18/17 14:51	RJR	TAL PIT
Total/NA	Analysis	7471B		1			217578	07/19/17 13:00	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.14 g	50 mL	217386	07/18/17 10:56	JAS	TAL PIT
Total/NA	Analysis	9014		1			217445	07/18/17 15:03	JAS	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: W8, S1, A 71317 — **Lab Sample ID: 180-68219-31**
Date Collected: 07/13/17 12:45 — **Matrix: Solid**
Date Received: 07/14/17 13:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			217301	07/17/17 15:21	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W8, S1, A 71317 — **Lab Sample ID: 180-68219-31**
Date Collected: 07/13/17 12:45 — **Matrix: Solid**
Date Received: 07/14/17 13:15 — **Percent Solids: 88.6**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			7.2532 g	5 mL	217488	07/19/17 05:28	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	217471	07/19/17 14:17	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W8, S1, B 71317 — **Lab Sample ID: 180-68219-32**
Date Collected: 07/13/17 12:50 — **Matrix: Solid**
Date Received: 07/14/17 13:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			217301	07/17/17 15:21	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W8, S1, B 71317 — **Lab Sample ID: 180-68219-32**
Date Collected: 07/13/17 12:50 — **Matrix: Solid**
Date Received: 07/14/17 13:15 — **Percent Solids: 91.5**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.761 g	5 mL	217488	07/19/17 05:28	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	217471	07/19/17 13:54	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W8, S1, C 71317 — **Lab Sample ID: 180-68219-33**
Date Collected: 07/13/17 12:55 — **Matrix: Solid**
Date Received: 07/14/17 13:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			217280	07/17/17 12:16	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W8, S1, C 71317 — **Lab Sample ID: 180-68219-33**
Date Collected: 07/13/17 12:55 — **Matrix: Solid**
Date Received: 07/14/17 13:15 — **Percent Solids: 90.6**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.4 g	0.5 mL	217139	07/15/17 04:42	BAP	TAL PIT

Client Sample ID: W8, S1, C 71317

Lab Sample ID: 180-68219-33
Date Collected: 07/13/17 12:55
Matrix: Solid
Date Received: 07/14/17 13:15
Percent Solids: 90.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8270D LL		5	1 mL	1 mL	217242	07/17/17 16:23	DLF	TAL PIT
	Instrument ID: CH71									
Total/NA	Prep	3541			15.3 g	20.0 mL	217194	07/16/17 13:30	MAL	TAL PIT
Total/NA	Analysis	8082A		1			217206	07/17/17 14:57	JMO	TAL PIT
	Instrument ID: CHGC10									
Total/NA	Cleanup	3665A			2 mL	2 mL	217332	07/18/17 06:49	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	217333	07/18/17 06:50	JMO	TAL PIT
Total/NA	Prep	3050B			1.04 g	100 mL	217374	07/18/17 10:32	ANA	TAL PIT
Total/NA	Analysis	6010C		1			217700	07/20/17 14:01	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.55 g	100 mL	217423	07/18/17 14:51	RJR	TAL PIT
Total/NA	Analysis	7471B		1			217578	07/19/17 13:02	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.15 g	50 mL	217386	07/18/17 10:56	JAS	TAL PIT
Total/NA	Analysis	9014		1			217445	07/18/17 15:08	JAS	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: W8, S2, A 71317

Lab Sample ID: 180-68219-34
Date Collected: 07/13/17 13:15
Matrix: Solid
Date Received: 07/14/17 13:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			217301	07/17/17 15:21	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W8, S2, A 71317

Lab Sample ID: 180-68219-34
Date Collected: 07/13/17 13:15
Matrix: Solid
Date Received: 07/14/17 13:15
Percent Solids: 90.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			7.3396 g	5 mL	217616	07/20/17 05:54	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	217610	07/20/17 09:38	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W8, S2, B 71317

Lab Sample ID: 180-68219-35
Date Collected: 07/13/17 13:20
Matrix: Solid
Date Received: 07/14/17 13:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			217301	07/17/17 15:21	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W8, S2, B 71317

Lab Sample ID: 180-68219-35
Date Collected: 07/13/17 13:20
Matrix: Solid
Date Received: 07/14/17 13:15
Percent Solids: 90.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.8924 g	5 mL	217488	07/19/17 05:28	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	217471	07/19/17 13:31	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W8, S2, C 71317

Lab Sample ID: 180-68219-36
Date Collected: 07/13/17 13:25
Matrix: Solid
Date Received: 07/14/17 13:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			217280	07/17/17 12:16	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W8, S2, C 71317

Lab Sample ID: 180-68219-36
Date Collected: 07/13/17 13:25
Matrix: Solid
Date Received: 07/14/17 13:15
Percent Solids: 90.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	0.5 mL	217139	07/15/17 04:42	BAP	TAL PIT
Total/NA	Analysis	8270D LL		5	1 mL	1 mL	217242	07/17/17 16:51	DLF	TAL PIT
	Instrument ID: CH71									
Total/NA	Prep	3541			15.0 g	20.0 mL	217194	07/16/17 13:30	MAL	TAL PIT
Total/NA	Analysis	8082A		1			217206	07/17/17 15:17	JMO	TAL PIT
	Instrument ID: CHGC10									
Total/NA	Cleanup	3665A			2 mL	2 mL	217332	07/18/17 06:49	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	217333	07/18/17 06:50	JMO	TAL PIT
Total/NA	Prep	3050B			1.05 g	100 mL	217374	07/18/17 10:32	ANA	TAL PIT
Total/NA	Analysis	6010C		1			217700	07/20/17 14:06	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.60 g	100 mL	217423	07/18/17 14:51	RJR	TAL PIT
Total/NA	Analysis	7471B		1			217578	07/19/17 13:08	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.02 g	50 mL	217386	07/18/17 10:56	JAS	TAL PIT
Total/NA	Analysis	9014		1			217445	07/18/17 15:10	JAS	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: W8, S3, A 71317

Lab Sample ID: 180-68219-37
Date Collected: 07/13/17 13:45
Matrix: Solid
Date Received: 07/14/17 13:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			217301	07/17/17 15:21	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W8, S3, A 71317
Date Collected: 07/13/17 13:45
Date Received: 07/14/17 13:15

Lab Sample ID: 180-68219-37
Matrix: Solid
Percent Solids: 90.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.3171 g	5 mL	217220	07/17/17 05:28	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	217209	07/17/17 18:06	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W8, S3, B 71317
Date Collected: 07/13/17 13:50
Date Received: 07/14/17 13:15

Lab Sample ID: 180-68219-38
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			217301	07/17/17 15:21	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W8, S3, B 71317
Date Collected: 07/13/17 13:50
Date Received: 07/14/17 13:15

Lab Sample ID: 180-68219-38
Matrix: Solid
Percent Solids: 91.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.057 g	5 mL	217220	07/17/17 05:28	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	217209	07/17/17 11:15	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W8, S3, C 71317
Date Collected: 07/13/17 13:55
Date Received: 07/14/17 13:15

Lab Sample ID: 180-68219-39
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			217280	07/17/17 12:16	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W8, S3, C 71317
Date Collected: 07/13/17 13:55
Date Received: 07/14/17 13:15

Lab Sample ID: 180-68219-39
Matrix: Solid
Percent Solids: 86.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.1 g	0.5 mL	217195	07/16/17 13:37	MAL	TAL PIT
Total/NA	Analysis	8270D LL		2	1 mL	1 mL	217231	07/17/17 13:03	VVP	TAL PIT
	Instrument ID: CH733									
Total/NA	Prep	3541	DL		15.1 g	0.5 mL	217195	07/16/17 13:37	MAL	TAL PIT
Total/NA	Analysis	8270D LL	DL	10	1 mL	1 mL	217354	07/18/17 16:15	VVP	TAL PIT
	Instrument ID: CH733									
Total/NA	Prep	3541			15.3 g	20.0 mL	217194	07/16/17 13:30	MAL	TAL PIT
Total/NA	Analysis	8082A		1			217206	07/17/17 15:37	JMO	TAL PIT
	Instrument ID: CHGC10									

Client Sample ID: W8, S3, C 71317

Lab Sample ID: 180-68219-39
Date Collected: 07/13/17 13:55
Matrix: Solid
Date Received: 07/14/17 13:15
Percent Solids: 86.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Cleanup	3665A			2 mL	2 mL	217332	07/18/17 06:49	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	217333	07/18/17 06:50	JMO	TAL PIT
Total/NA	Prep	3050B			0.97 g	100 mL	217374	07/18/17 10:32	ANA	TAL PIT
Total/NA	Analysis	6010C		1			217700	07/20/17 14:11	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.63 g	100 mL	217423	07/18/17 14:51	RJR	TAL PIT
Total/NA	Analysis	7471B		1			217578	07/19/17 13:10	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.07 g	50 mL	217386	07/18/17 10:56	JAS	TAL PIT
Total/NA	Analysis	9014		1			217445	07/18/17 15:11	JAS	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: DUP-11

Lab Sample ID: 180-68219-50
Date Collected: 07/13/17 00:00
Matrix: Solid
Date Received: 07/14/17 13:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			217301	07/17/17 15:21	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: DUP-11

Lab Sample ID: 180-68219-50
Date Collected: 07/13/17 00:00
Matrix: Solid
Date Received: 07/14/17 13:15
Percent Solids: 92.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.1289 g	5 mL	217331	07/18/17 06:00	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	217322	07/18/17 12:38	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: DUP-12

Lab Sample ID: 180-68219-51
Date Collected: 07/13/17 00:00
Matrix: Solid
Date Received: 07/14/17 13:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			217301	07/17/17 15:21	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: DUP-12

Lab Sample ID: 180-68219-51
Date Collected: 07/13/17 00:00
Matrix: Solid
Date Received: 07/14/17 13:15
Percent Solids: 92.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.6554 g	5 mL	217331	07/18/17 06:00	KLG	TAL PIT

Client Sample ID: DUP-12
Date Collected: 07/13/17 00:00
Date Received: 07/14/17 13:15

Lab Sample ID: 180-68219-51
Matrix: Solid
Percent Solids: 92.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	217322	07/18/17 13:01	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: DUP-13
Date Collected: 07/13/17 00:00
Date Received: 07/14/17 13:15

Lab Sample ID: 180-68219-52
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			217301	07/17/17 15:21	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: DUP-13
Date Collected: 07/13/17 00:00
Date Received: 07/14/17 13:15

Lab Sample ID: 180-68219-52
Matrix: Solid
Percent Solids: 91.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.3775 g	5 mL	217331	07/18/17 06:00	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	217322	07/18/17 13:23	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: DUP-9
Date Collected: 07/13/17 00:00
Date Received: 07/14/17 13:15

Lab Sample ID: 180-68219-53
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			217301	07/17/17 15:21	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: DUP-9
Date Collected: 07/13/17 00:00
Date Received: 07/14/17 13:15

Lab Sample ID: 180-68219-53
Matrix: Solid
Percent Solids: 87.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.0237 g	5 mL	217488	07/19/17 05:28	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	217471	07/19/17 09:15	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: DUP-10
Date Collected: 07/13/17 00:00
Date Received: 07/14/17 13:15

Lab Sample ID: 180-68219-54
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			217280	07/17/17 12:16	JTL	TAL PIT

Client Sample ID: DUP-10
Date Collected: 07/13/17 00:00
Date Received: 07/14/17 13:15

Lab Sample ID: 180-68219-54
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			217280	07/17/17 12:16	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: DUP-10
Date Collected: 07/13/17 00:00
Date Received: 07/14/17 13:15

Lab Sample ID: 180-68219-54
Matrix: Solid
Percent Solids: 87.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.1 g	0.5 mL	217195	07/16/17 13:37	MAL	TAL PIT
Total/NA	Analysis	8270D LL		5	1 mL	1 mL	217231	07/17/17 13:30	VVP	TAL PIT
	Instrument ID: CH733									
Total/NA	Prep	3541			15.2 g	20.0 mL	217194	07/16/17 13:30	MAL	TAL PIT
Total/NA	Analysis	8082A		1			217206	07/17/17 15:57	JMO	TAL PIT
	Instrument ID: CHGC10									
Total/NA	Cleanup	3665A			2 mL	2 mL	217332	07/18/17 06:49	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	217333	07/18/17 06:50	JMO	TAL PIT
Total/NA	Prep	3050B			1.05 g	100 mL	217374	07/18/17 10:32	ANA	TAL PIT
Total/NA	Analysis	6010C		1			217700	07/20/17 14:16	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.62 g	100 mL	217423	07/18/17 14:51	RJR	TAL PIT
Total/NA	Analysis	7471B		1			217578	07/19/17 13:12	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.03 g	50 mL	217386	07/18/17 10:56	JAS	TAL PIT
Total/NA	Analysis	9014		1			217445	07/18/17 15:13	JAS	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: TRIP BLANK 1
Date Collected: 07/13/17 00:00
Date Received: 07/14/17 13:15

Lab Sample ID: 180-68219-55
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	217455	07/19/17 16:09	FBB	TAL PIT
	Instrument ID: CHHP6									

Client Sample ID: TRIP BLANK 2
Date Collected: 07/13/17 00:00
Date Received: 07/14/17 13:15

Lab Sample ID: 180-68219-56
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	217455	07/19/17 16:33	FBB	TAL PIT
	Instrument ID: CHHP6									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68219-1

Client Sample ID: TRIP BLANK 3

Lab Sample ID: 180-68219-57
Matrix: Water
Date Collected: 07/13/17 00:00
Date Received: 07/14/17 13:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	217455	07/19/17 16:57	FBB	TAL PIT
	Instrument ID: CHHP6									

Client Sample ID: TRIP BLANK 4

Lab Sample ID: 180-68219-58
Matrix: Water
Date Collected: 07/13/17 00:00
Date Received: 07/14/17 13:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	217455	07/19/17 17:22	FBB	TAL PIT
	Instrument ID: CHHP6									

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Analyst References:

Lab: TAL PIT

Batch Type: Cleanup

JMO = John Oravec

Batch Type: Prep

ANA = Alexis Anderson

BAP = Brian Pino

JAS = Joshua Schmidt

KLG = Kathy Gordon

MAL = Michael Lonzo

RJR = Ron Rosenbaum

Batch Type: Analysis

DLF = Donald Ferguson

FBB = Frank Bungard

JAS = Joshua Schmidt

JMO = John Oravec

JTL = Justin Landry

JWS = Jim Swanson

KLG = Kathy Gordon

RJG = Rob Good

RJR = Ron Rosenbaum

VVP = Vincent Piccolino

Client Sample ID: W6, S1, A 071317

Date Collected: 07/13/17 08:00
Date Received: 07/14/17 13:15

Lab Sample ID: 180-68219-1

Matrix: Solid
Percent Solids: 92.4

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.018	0.0029	mg/Kg	☼	07/19/17 05:28	07/19/17 08:52	1
Benzene	ND		0.0046	0.0018	mg/Kg	☼	07/19/17 05:28	07/19/17 08:52	1
2-Butanone (MEK)	ND		0.0046	0.0027	mg/Kg	☼	07/19/17 05:28	07/19/17 08:52	1
Carbon tetrachloride	ND		0.0046	0.0030	mg/Kg	☼	07/19/17 05:28	07/19/17 08:52	1
Chlorobenzene	ND		0.0046	0.0014	mg/Kg	☼	07/19/17 05:28	07/19/17 08:52	1
Chloroform	ND		0.0046	0.0019	mg/Kg	☼	07/19/17 05:28	07/19/17 08:52	1
cis-1,2-Dichloroethene	ND		0.0046	0.0014	mg/Kg	☼	07/19/17 05:28	07/19/17 08:52	1
1,2-Dichlorobenzene	ND		0.0046	0.0037	mg/Kg	☼	07/19/17 05:28	07/19/17 08:52	1
1,3-Dichlorobenzene	ND		0.0046	0.0015	mg/Kg	☼	07/19/17 05:28	07/19/17 08:52	1
1,4-Dichlorobenzene	ND		0.0046	0.00094	mg/Kg	☼	07/19/17 05:28	07/19/17 08:52	1
1,1-Dichloroethane	ND		0.0046	0.0017	mg/Kg	☼	07/19/17 05:28	07/19/17 08:52	1
1,2-Dichloroethane	ND		0.0046	0.0013	mg/Kg	☼	07/19/17 05:28	07/19/17 08:52	1
1,1-Dichloroethene	ND		0.0046	0.0026	mg/Kg	☼	07/19/17 05:28	07/19/17 08:52	1
Ethylbenzene	ND		0.0046	0.0020	mg/Kg	☼	07/19/17 05:28	07/19/17 08:52	1
Methylene Chloride	ND		0.0046	0.0022	mg/Kg	☼	07/19/17 05:28	07/19/17 08:52	1
Methyl tert-butyl ether	ND		0.0046	0.0034	mg/Kg	☼	07/19/17 05:28	07/19/17 08:52	1
n-Butylbenzene	ND		0.0046	0.0035	mg/Kg	☼	07/19/17 05:28	07/19/17 08:52	1
N-Propylbenzene	ND		0.0046	0.0019	mg/Kg	☼	07/19/17 05:28	07/19/17 08:52	1
sec-Butylbenzene	ND		0.0046	0.0022	mg/Kg	☼	07/19/17 05:28	07/19/17 08:52	1
tert-Butylbenzene	ND		0.0046	0.0017	mg/Kg	☼	07/19/17 05:28	07/19/17 08:52	1
Tetrachloroethene	ND		0.0046	0.0018	mg/Kg	☼	07/19/17 05:28	07/19/17 08:52	1
Toluene	ND		0.0046	0.0015	mg/Kg	☼	07/19/17 05:28	07/19/17 08:52	1
trans-1,2-Dichloroethene	ND		0.0046	0.0023	mg/Kg	☼	07/19/17 05:28	07/19/17 08:52	1
1,1,1-Trichloroethane	ND		0.0046	0.0023	mg/Kg	☼	07/19/17 05:28	07/19/17 08:52	1
Trichloroethene	ND		0.0046	0.0014	mg/Kg	☼	07/19/17 05:28	07/19/17 08:52	1
1,2,4-Trimethylbenzene	ND		0.0046	0.0012	mg/Kg	☼	07/19/17 05:28	07/19/17 08:52	1
1,3,5-Trimethylbenzene	ND		0.0046	0.0016	mg/Kg	☼	07/19/17 05:28	07/19/17 08:52	1
Vinyl chloride	ND		0.0046	0.0034	mg/Kg	☼	07/19/17 05:28	07/19/17 08:52	1
Xylenes, Total	ND		0.0092	0.0039	mg/Kg	☼	07/19/17 05:28	07/19/17 08:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*63 - 120*	*07/19/17 05:28*	*07/19/17 08:52*	*1*
Dibromofluoromethane (Surr)	*92*		*68 - 121*	*07/19/17 05:28*	*07/19/17 08:52*	*1*
1,2-Dichloroethane-d4 (Surr)	*83*		*52 - 124*	*07/19/17 05:28*	*07/19/17 08:52*	*1*
Toluene-d8 (Surr)	*111*		*72 - 127*	*07/19/17 05:28*	*07/19/17 08:52*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**7.6**		0.1	0.1	%			07/17/17 14:15	1
Percent Solids	**92.4**		0.1	0.1	%			07/17/17 14:15	1

Client Sample ID: W6, S1, B 071317

Date Collected: 07/13/17 08:05
Date Received: 07/14/17 13:15

Lab Sample ID: 180-68219-2

Matrix: Solid
Percent Solids: 91.8

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.019	0.0030	mg/Kg	☼	07/19/17 05:28	07/19/17 09:39	1
Benzene	ND		0.0048	0.0019	mg/Kg	☼	07/19/17 05:28	07/19/17 09:39	1
2-Butanone (MEK)	ND		0.0048	0.0028	mg/Kg	☼	07/19/17 05:28	07/19/17 09:39	1

Client Sample ID: W6, S1, B 071317 — Lab Sample ID: 180-68219-2

Date Collected: 07/13/17 08:05 — **Matrix: Solid**
Date Received: 07/14/17 13:15 — **Percent Solids: 91.8**

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	ND		0.0048	0.0032	mg/Kg	☼	07/19/17 05:28	07/19/17 09:39	1
Chlorobenzene	ND		0.0048	0.0015	mg/Kg	☼	07/19/17 05:28	07/19/17 09:39	1
Chloroform	ND		0.0048	0.0020	mg/Kg	☼	07/19/17 05:28	07/19/17 09:39	1
cis-1,2-Dichloroethene	ND		0.0048	0.0015	mg/Kg	☼	07/19/17 05:28	07/19/17 09:39	1
1,2-Dichlorobenzene	ND		0.0048	0.0038	mg/Kg	☼	07/19/17 05:28	07/19/17 09:39	1
1,3-Dichlorobenzene	ND		0.0048	0.0015	mg/Kg	☼	07/19/17 05:28	07/19/17 09:39	1
1,4-Dichlorobenzene	ND		0.0048	0.00097	mg/Kg	☼	07/19/17 05:28	07/19/17 09:39	1
1,1-Dichloroethane	ND		0.0048	0.0017	mg/Kg	☼	07/19/17 05:28	07/19/17 09:39	1
1,2-Dichloroethane	ND		0.0048	0.0014	mg/Kg	☼	07/19/17 05:28	07/19/17 09:39	1
1,1-Dichloroethene	ND		0.0048	0.0027	mg/Kg	☼	07/19/17 05:28	07/19/17 09:39	1
Ethylbenzene	ND		0.0048	0.0021	mg/Kg	☼	07/19/17 05:28	07/19/17 09:39	1
Methylene Chloride	ND		0.0048	0.0023	mg/Kg	☼	07/19/17 05:28	07/19/17 09:39	1
Methyl tert-butyl ether	ND		0.0048	0.0035	mg/Kg	☼	07/19/17 05:28	07/19/17 09:39	1
n-Butylbenzene	ND		0.0048	0.0036	mg/Kg	☼	07/19/17 05:28	07/19/17 09:39	1
N-Propylbenzene	ND		0.0048	0.0020	mg/Kg	☼	07/19/17 05:28	07/19/17 09:39	1
sec-Butylbenzene	ND		0.0048	0.0023	mg/Kg	☼	07/19/17 05:28	07/19/17 09:39	1
tert-Butylbenzene	ND		0.0048	0.0017	mg/Kg	☼	07/19/17 05:28	07/19/17 09:39	1
Tetrachloroethene	ND		0.0048	0.0019	mg/Kg	☼	07/19/17 05:28	07/19/17 09:39	1
Toluene	ND		0.0048	0.0016	mg/Kg	☼	07/19/17 05:28	07/19/17 09:39	1
trans-1,2-Dichloroethene	ND		0.0048	0.0024	mg/Kg	☼	07/19/17 05:28	07/19/17 09:39	1
1,1,1-Trichloroethane	ND		0.0048	0.0024	mg/Kg	☼	07/19/17 05:28	07/19/17 09:39	1
Trichloroethene	ND		0.0048	0.0014	mg/Kg	☼	07/19/17 05:28	07/19/17 09:39	1
1,2,4-Trimethylbenzene	ND		0.0048	0.0013	mg/Kg	☼	07/19/17 05:28	07/19/17 09:39	1
1,3,5-Trimethylbenzene	ND		0.0048	0.0016	mg/Kg	☼	07/19/17 05:28	07/19/17 09:39	1
Vinyl chloride	ND		0.0048	0.0035	mg/Kg	☼	07/19/17 05:28	07/19/17 09:39	1
Xylenes, Total	ND		0.0095	0.0041	mg/Kg	☼	07/19/17 05:28	07/19/17 09:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*63 - 120*	*07/19/17 05:28*	*07/19/17 09:39*	*1*
Dibromofluoromethane (Surr)	*87*		*68 - 121*	*07/19/17 05:28*	*07/19/17 09:39*	*1*
1,2-Dichloroethane-d4 (Surr)	*78*		*52 - 124*	*07/19/17 05:28*	*07/19/17 09:39*	*1*
Toluene-d8 (Surr)	*103*		*72 - 127*	*07/19/17 05:28*	*07/19/17 09:39*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**8.2**		0.1	0.1	%			07/15/17 11:55	1
Percent Solids	**91.8**		0.1	0.1	%			07/15/17 11:55	1

Client Sample ID: W6, S1, C 071317 — Lab Sample ID: 180-68219-3

Date Collected: 07/13/17 08:10 — **Matrix: Solid**
Date Received: 07/14/17 13:15 — **Percent Solids: 94.4**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.010**	**J**	0.021	0.0071	mg/Kg	☼	07/15/17 04:42	07/15/17 11:52	3
Acenaphthylene	**0.15**		0.021	0.0072	mg/Kg	☼	07/15/17 04:42	07/15/17 11:52	3
Anthracene	**0.17**	**F2**	0.021	0.0078	mg/Kg	☼	07/15/17 04:42	07/15/17 11:52	3
Benzo[a]anthracene	**0.48**	**F2**	0.021	0.0084	mg/Kg	☼	07/15/17 04:42	07/15/17 11:52	3
Benzo[a]pyrene	**0.46**	**F2**	0.021	0.0088	mg/Kg	☼	07/15/17 04:42	07/15/17 11:52	3
Benzo[b]fluoranthene	**0.55**	**F2 F1**	0.021	0.0092	mg/Kg	☼	07/15/17 04:42	07/15/17 11:52	3

Client Sample ID: W6, S1, C 071317 **Lab Sample ID: 180-68219-3**
Date Collected: 07/13/17 08:10 **Matrix: Solid**
Date Received: 07/14/17 13:15 **Percent Solids: 94.4**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	**0.49**	**F1 F2**	0.021	0.0092	mg/Kg	☼	07/15/17 04:42	07/15/17 11:52	3
Benzo[k]fluoranthene	**0.24**		0.021	0.0073	mg/Kg	☼	07/15/17 04:42	07/15/17 11:52	3
Chrysene	**0.46**	**F2**	0.021	0.0083	mg/Kg	☼	07/15/17 04:42	07/15/17 11:52	3
Dibenz(a,h)anthracene	**0.12**		0.021	0.0088	mg/Kg	☼	07/15/17 04:42	07/15/17 11:52	3
Dibenzofuran	**0.029**	**J**	0.10	0.0085	mg/Kg	☼	07/15/17 04:42	07/15/17 11:52	3
2,4-Dinitrotoluene	ND		0.10	0.014	mg/Kg	☼	07/15/17 04:42	07/15/17 11:52	3
1,4-Dioxane	ND		0.21	0.016	mg/Kg	☼	07/15/17 04:42	07/15/17 11:52	3
Fluoranthene	**0.94**	**F2 F1**	0.021	0.0084	mg/Kg	☼	07/15/17 04:42	07/15/17 11:52	3
Fluorene	**0.027**		0.021	0.0076	mg/Kg	☼	07/15/17 04:42	07/15/17 11:52	3
Hexachlorobenzene	ND		0.021	0.0085	mg/Kg	☼	07/15/17 04:42	07/15/17 11:52	3
Hexachlorobutadiene	ND		0.021	0.0067	mg/Kg	☼	07/15/17 04:42	07/15/17 11:52	3
Hexachloroethane	ND		0.10	0.0076	mg/Kg	☼	07/15/17 04:42	07/15/17 11:52	3
Indeno[1,2,3-cd]pyrene	**0.41**		0.021	0.0082	mg/Kg	☼	07/15/17 04:42	07/15/17 11:52	3
2-Methylphenol	ND		0.10	0.0094	mg/Kg	☼	07/15/17 04:42	07/15/17 11:52	3
Methylphenol, 3 & 4	ND		0.10	0.0094	mg/Kg	☼	07/15/17 04:42	07/15/17 11:52	3
Naphthalene	**0.12**		0.021	0.0076	mg/Kg	☼	07/15/17 04:42	07/15/17 11:52	3
Nitrobenzene	ND		0.21	0.0081	mg/Kg	☼	07/15/17 04:42	07/15/17 11:52	3
Pentachlorophenol	ND	F1	0.54	0.20	mg/Kg	☼	07/15/17 04:42	07/15/17 11:52	3
Phenanthrene	**0.37**	**F2 F1**	0.021	0.0089	mg/Kg	☼	07/15/17 04:42	07/15/17 11:52	3
Phenol	ND		0.10	0.014	mg/Kg	☼	07/15/17 04:42	07/15/17 11:52	3
Pyrene	**0.69**	**F2 F1**	0.021	0.0094	mg/Kg	☼	07/15/17 04:42	07/15/17 11:52	3
Pyridine	ND	F1 F2	0.10	0.010	mg/Kg	☼	07/15/17 04:42	07/15/17 11:52	3
2,4,5-Trichlorophenol	ND		0.10	0.010	mg/Kg	☼	07/15/17 04:42	07/15/17 11:52	3
2,4,6-Trichlorophenol	ND		0.10	0.0093	mg/Kg	☼	07/15/17 04:42	07/15/17 11:52	3

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*69*		*42 - 100*	*07/15/17 04:42*	*07/15/17 11:52*	*3*
2-Fluorophenol (Surr)	*64*		*21 - 107*	*07/15/17 04:42*	*07/15/17 11:52*	*3*
Nitrobenzene-d5 (Surr)	*73*		*35 - 109*	*07/15/17 04:42*	*07/15/17 11:52*	*3*
Phenol-d5 (Surr)	*54*		*29 - 105*	*07/15/17 04:42*	*07/15/17 11:52*	*3*
Terphenyl-d14 (Surr)	*66*		*36 - 113*	*07/15/17 04:42*	*07/15/17 11:52*	*3*
2,4,6-Tribromophenol (Surr)	*58*		*20 - 134*	*07/15/17 04:42*	*07/15/17 11:52*	*3*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.017	0.0092	mg/Kg	☼	07/16/17 13:30	07/17/17 10:57	1
PCB-1221	ND		0.017	0.0090	mg/Kg	☼	07/16/17 13:30	07/17/17 10:57	1
PCB-1232	ND		0.017	0.0069	mg/Kg	☼	07/16/17 13:30	07/17/17 10:57	1
PCB-1242	ND		0.017	0.014	mg/Kg	☼	07/16/17 13:30	07/17/17 10:57	1
PCB-1248	**0.80**		0.017	0.0083	mg/Kg	☼	07/16/17 13:30	07/17/17 10:57	1
PCB-1254	**0.47**		0.017	0.0076	mg/Kg	☼	07/16/17 13:30	07/17/17 10:57	1
PCB-1260	**0.15**		0.017	0.012	mg/Kg	☼	07/16/17 13:30	07/17/17 10:57	1
PCB-1262	ND		0.017	0.012	mg/Kg	☼	07/16/17 13:30	07/17/17 10:57	1
PCB-1268	ND		0.017	0.0053	mg/Kg	☼	07/16/17 13:30	07/17/17 10:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*87*		*23 - 150*	*07/16/17 13:30*	*07/17/17 10:57*	*1*
DCB Decachlorobiphenyl (Surr)	*98*		*23 - 150*	*07/16/17 13:30*	*07/17/17 10:57*	*1*
Tetrachloro-m-xylene (Surr)	*94*		*27 - 138*	*07/16/17 13:30*	*07/17/17 10:57*	*1*
Tetrachloro-m-xylene (Surr)	*93*		*27 - 138*	*07/16/17 13:30*	*07/17/17 10:57*	*1*

Client Sample ID: W6, S1, C 071317

Lab Sample ID: 180-68219-3
Date Collected: 07/13/17 08:10
Matrix: Solid
Date Received: 07/14/17 13:15
Percent Solids: 94.4

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.6		1.0	0.46	mg/Kg	☼	07/18/17 10:32	07/20/17 12:39	1
Barium	85		21	5.6	mg/Kg	☼	07/18/17 10:32	07/20/17 12:39	1
Beryllium	0.36	J	0.42	0.11	mg/Kg	☼	07/18/17 10:32	07/20/17 12:39	1
Cadmium	0.16	J	0.52	0.12	mg/Kg	☼	07/18/17 10:32	07/20/17 12:39	1
Chromium	9.1		0.52	0.14	mg/Kg	☼	07/18/17 10:32	07/20/17 12:39	1
Copper	20		2.6	0.81	mg/Kg	☼	07/18/17 10:32	07/20/17 12:39	1
Lead	31		1.0	0.34	mg/Kg	☼	07/18/17 10:32	07/20/17 12:39	1
Manganese	370		1.6	0.43	mg/Kg	☼	07/18/17 10:32	07/20/17 12:39	1
Nickel	17		4.2	0.94	mg/Kg	☼	07/18/17 10:32	07/20/17 12:39	1
Selenium	ND		1.0	0.42	mg/Kg	☼	07/18/17 10:32	07/20/17 12:39	1
Silver	ND		0.52	0.17	mg/Kg	☼	07/18/17 10:32	07/20/17 12:39	1
Zinc	69		2.1	1.1	mg/Kg	☼	07/18/17 10:32	07/20/17 12:39	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.12	F2	0.035	0.0078	mg/Kg	☼	07/18/17 14:51	07/19/17 12:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	5.6		0.1	0.1	%			07/15/17 11:55	1
Percent Solids	94.4		0.1	0.1	%			07/15/17 11:55	1
Cyanide, Total	ND		0.47	0.14	mg/Kg	☼	07/18/17 10:56	07/18/17 14:30	1

Client Sample ID: W6, S2, A 071317

Lab Sample ID: 180-68219-4
Date Collected: 07/13/17 08:20
Matrix: Solid
Date Received: 07/14/17 13:15
Percent Solids: 90.6

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.021	0.0033	mg/Kg	☼	07/19/17 05:28	07/19/17 10:52	1
Benzene	ND		0.0052	0.0020	mg/Kg	☼	07/19/17 05:28	07/19/17 10:52	1
2-Butanone (MEK)	ND		0.0052	0.0030	mg/Kg	☼	07/19/17 05:28	07/19/17 10:52	1
Carbon tetrachloride	ND		0.0052	0.0034	mg/Kg	☼	07/19/17 05:28	07/19/17 10:52	1
Chlorobenzene	ND		0.0052	0.0016	mg/Kg	☼	07/19/17 05:28	07/19/17 10:52	1
Chloroform	ND		0.0052	0.0022	mg/Kg	☼	07/19/17 05:28	07/19/17 10:52	1
cis-1,2-Dichloroethene	ND		0.0052	0.0016	mg/Kg	☼	07/19/17 05:28	07/19/17 10:52	1
1,2-Dichlorobenzene	ND		0.0052	0.0042	mg/Kg	☼	07/19/17 05:28	07/19/17 10:52	1
1,3-Dichlorobenzene	ND		0.0052	0.0017	mg/Kg	☼	07/19/17 05:28	07/19/17 10:52	1
1,4-Dichlorobenzene	ND		0.0052	0.0011	mg/Kg	☼	07/19/17 05:28	07/19/17 10:52	1
1,1-Dichloroethane	ND		0.0052	0.0019	mg/Kg	☼	07/19/17 05:28	07/19/17 10:52	1
1,2-Dichloroethane	ND		0.0052	0.0015	mg/Kg	☼	07/19/17 05:28	07/19/17 10:52	1
1,1-Dichloroethene	ND		0.0052	0.0030	mg/Kg	☼	07/19/17 05:28	07/19/17 10:52	1
Ethylbenzene	ND		0.0052	0.0022	mg/Kg	☼	07/19/17 05:28	07/19/17 10:52	1
Methylene Chloride	ND		0.0052	0.0025	mg/Kg	☼	07/19/17 05:28	07/19/17 10:52	1
Methyl tert-butyl ether	ND		0.0052	0.0038	mg/Kg	☼	07/19/17 05:28	07/19/17 10:52	1
n-Butylbenzene	ND		0.0052	0.0039	mg/Kg	☼	07/19/17 05:28	07/19/17 10:52	1
N-Propylbenzene	ND		0.0052	0.0022	mg/Kg	☼	07/19/17 05:28	07/19/17 10:52	1
sec-Butylbenzene	ND		0.0052	0.0025	mg/Kg	☼	07/19/17 05:28	07/19/17 10:52	1
tert-Butylbenzene	ND		0.0052	0.0019	mg/Kg	☼	07/19/17 05:28	07/19/17 10:52	1
Tetrachloroethene	ND		0.0052	0.0021	mg/Kg	☼	07/19/17 05:28	07/19/17 10:52	1

Client Sample ID: W6, S2, A 071317

Date Collected: 07/13/17 08:20
Date Received: 07/14/17 13:15

Lab Sample ID: 180-68219-4

Matrix: Solid
Percent Solids: 90.6

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		0.0052	0.0018	mg/Kg	☼	07/19/17 05:28	07/19/17 10:52	1
trans-1,2-Dichloroethene	ND		0.0052	0.0026	mg/Kg	☼	07/19/17 05:28	07/19/17 10:52	1
1,1,1-Trichloroethane	ND		0.0052	0.0026	mg/Kg	☼	07/19/17 05:28	07/19/17 10:52	1
Trichloroethene	ND		0.0052	0.0016	mg/Kg	☼	07/19/17 05:28	07/19/17 10:52	1
1,2,4-Trimethylbenzene	ND		0.0052	0.0014	mg/Kg	☼	07/19/17 05:28	07/19/17 10:52	1
1,3,5-Trimethylbenzene	ND		0.0052	0.0018	mg/Kg	☼	07/19/17 05:28	07/19/17 10:52	1
Vinyl chloride	ND		0.0052	0.0038	mg/Kg	☼	07/19/17 05:28	07/19/17 10:52	1
Xylenes, Total	ND		0.010	0.0045	mg/Kg	☼	07/19/17 05:28	07/19/17 10:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*63 - 120*	*07/19/17 05:28*	*07/19/17 10:52*	*1*
Dibromofluoromethane (Surr)	*94*		*68 - 121*	*07/19/17 05:28*	*07/19/17 10:52*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*52 - 124*	*07/19/17 05:28*	*07/19/17 10:52*	*1*
Toluene-d8 (Surr)	*102*		*72 - 127*	*07/19/17 05:28*	*07/19/17 10:52*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.4**		0.1	0.1	%			07/15/17 11:55	1
Percent Solids	**90.6**		0.1	0.1	%			07/15/17 11:55	1

Client Sample ID: W6, S2, B 071317

Date Collected: 07/13/17 08:25
Date Received: 07/14/17 13:15

Lab Sample ID: 180-68219-5

Matrix: Solid
Percent Solids: 92.4

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.018	0.0029	mg/Kg	☼	07/19/17 05:28	07/19/17 11:15	1
Benzene	ND		0.0046	0.0018	mg/Kg	☼	07/19/17 05:28	07/19/17 11:15	1
2-Butanone (MEK)	ND		0.0046	0.0026	mg/Kg	☼	07/19/17 05:28	07/19/17 11:15	1
Carbon tetrachloride	ND		0.0046	0.0030	mg/Kg	☼	07/19/17 05:28	07/19/17 11:15	1
Chlorobenzene	ND		0.0046	0.0014	mg/Kg	☼	07/19/17 05:28	07/19/17 11:15	1
Chloroform	ND		0.0046	0.0019	mg/Kg	☼	07/19/17 05:28	07/19/17 11:15	1
cis-1,2-Dichloroethene	ND		0.0046	0.0014	mg/Kg	☼	07/19/17 05:28	07/19/17 11:15	1
1,2-Dichlorobenzene	ND		0.0046	0.0037	mg/Kg	☼	07/19/17 05:28	07/19/17 11:15	1
1,3-Dichlorobenzene	ND		0.0046	0.0015	mg/Kg	☼	07/19/17 05:28	07/19/17 11:15	1
1,4-Dichlorobenzene	ND		0.0046	0.00093	mg/Kg	☼	07/19/17 05:28	07/19/17 11:15	1
1,1-Dichloroethane	ND		0.0046	0.0017	mg/Kg	☼	07/19/17 05:28	07/19/17 11:15	1
1,2-Dichloroethane	ND		0.0046	0.0013	mg/Kg	☼	07/19/17 05:28	07/19/17 11:15	1
1,1-Dichloroethene	ND		0.0046	0.0026	mg/Kg	☼	07/19/17 05:28	07/19/17 11:15	1
Ethylbenzene	ND		0.0046	0.0020	mg/Kg	☼	07/19/17 05:28	07/19/17 11:15	1
Methylene Chloride	ND		0.0046	0.0022	mg/Kg	☼	07/19/17 05:28	07/19/17 11:15	1
Methyl tert-butyl ether	ND		0.0046	0.0034	mg/Kg	☼	07/19/17 05:28	07/19/17 11:15	1
n-Butylbenzene	ND		0.0046	0.0035	mg/Kg	☼	07/19/17 05:28	07/19/17 11:15	1
N-Propylbenzene	ND		0.0046	0.0019	mg/Kg	☼	07/19/17 05:28	07/19/17 11:15	1
sec-Butylbenzene	ND		0.0046	0.0022	mg/Kg	☼	07/19/17 05:28	07/19/17 11:15	1
tert-Butylbenzene	ND		0.0046	0.0017	mg/Kg	☼	07/19/17 05:28	07/19/17 11:15	1
Tetrachloroethene	ND		0.0046	0.0018	mg/Kg	☼	07/19/17 05:28	07/19/17 11:15	1
Toluene	ND		0.0046	0.0015	mg/Kg	☼	07/19/17 05:28	07/19/17 11:15	1
trans-1,2-Dichloroethene	ND		0.0046	0.0023	mg/Kg	☼	07/19/17 05:28	07/19/17 11:15	1
1,1,1-Trichloroethane	ND		0.0046	0.0023	mg/Kg	☼	07/19/17 05:28	07/19/17 11:15	1

Client Sample ID: W6, S2, B 071317

Lab Sample ID: 180-68219-5
Date Collected: 07/13/17 08:25
Matrix: Solid
Date Received: 07/14/17 13:15
Percent Solids: 92.4

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	ND		0.0046	0.0014	mg/Kg	☼	07/19/17 05:28	07/19/17 11:15	1
1,2,4-Trimethylbenzene	ND		0.0046	0.0012	mg/Kg	☼	07/19/17 05:28	07/19/17 11:15	1
1,3,5-Trimethylbenzene	ND		0.0046	0.0016	mg/Kg	☼	07/19/17 05:28	07/19/17 11:15	1
Vinyl chloride	ND		0.0046	0.0034	mg/Kg	☼	07/19/17 05:28	07/19/17 11:15	1
Xylenes, Total	ND		0.0091	0.0039	mg/Kg	☼	07/19/17 05:28	07/19/17 11:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*63 - 120*	*07/19/17 05:28*	*07/19/17 11:15*	*1*
Dibromofluoromethane (Surr)	*98*		*68 - 121*	*07/19/17 05:28*	*07/19/17 11:15*	*1*
1,2-Dichloroethane-d4 (Surr)	*87*		*52 - 124*	*07/19/17 05:28*	*07/19/17 11:15*	*1*
Toluene-d8 (Surr)	*119*		*72 - 127*	*07/19/17 05:28*	*07/19/17 11:15*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**7.6**		0.1	0.1	%			07/15/17 11:55	1
Percent Solids	**92.4**		0.1	0.1	%			07/15/17 11:55	1

Client Sample ID: W6, S2, C 071317

Lab Sample ID: 180-68219-6
Date Collected: 07/13/17 08:30
Matrix: Solid
Date Received: 07/14/17 13:15
Percent Solids: 88.2

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.022	0.0075	mg/Kg	☼	07/15/17 04:42	07/17/17 13:38	3
Acenaphthylene	**0.051**		0.022	0.0076	mg/Kg	☼	07/15/17 04:42	07/17/17 13:38	3
Anthracene	**0.078**		0.022	0.0083	mg/Kg	☼	07/15/17 04:42	07/17/17 13:38	3
Benzo[a]anthracene	**0.26**		0.022	0.0089	mg/Kg	☼	07/15/17 04:42	07/17/17 13:38	3
Benzo[a]pyrene	**0.24**		0.022	0.0093	mg/Kg	☼	07/15/17 04:42	07/17/17 13:38	3
Benzo[b]fluoranthene	**0.28**		0.022	0.0097	mg/Kg	☼	07/15/17 04:42	07/17/17 13:38	3
Benzo[g,h,i]perylene	**0.23**		0.022	0.0097	mg/Kg	☼	07/15/17 04:42	07/17/17 13:38	3
Benzo[k]fluoranthene	**0.12**		0.022	0.0077	mg/Kg	☼	07/15/17 04:42	07/17/17 13:38	3
Chrysene	**0.24**		0.022	0.0087	mg/Kg	☼	07/15/17 04:42	07/17/17 13:38	3
Dibenz(a,h)anthracene	**0.052**		0.022	0.0093	mg/Kg	☼	07/15/17 04:42	07/17/17 13:38	3
Dibenzofuran	**0.014**	**J**	0.11	0.0090	mg/Kg	☼	07/15/17 04:42	07/17/17 13:38	3
2,4-Dinitrotoluene	ND		0.11	0.015	mg/Kg	☼	07/15/17 04:42	07/17/17 13:38	3
1,4-Dioxane	ND		0.22	0.017	mg/Kg	☼	07/15/17 04:42	07/17/17 13:38	3
Fluoranthene	**0.41**		0.022	0.0088	mg/Kg	☼	07/15/17 04:42	07/17/17 13:38	3
Fluorene	**0.012**	**J**	0.022	0.0080	mg/Kg	☼	07/15/17 04:42	07/17/17 13:38	3
Hexachlorobenzene	ND		0.022	0.0090	mg/Kg	☼	07/15/17 04:42	07/17/17 13:38	3
Hexachlorobutadiene	ND		0.022	0.0071	mg/Kg	☼	07/15/17 04:42	07/17/17 13:38	3
Hexachloroethane	ND		0.11	0.0080	mg/Kg	☼	07/15/17 04:42	07/17/17 13:38	3
Indeno[1,2,3-cd]pyrene	**0.20**		0.022	0.0086	mg/Kg	☼	07/15/17 04:42	07/17/17 13:38	3
2-Methylphenol	ND		0.11	0.0099	mg/Kg	☼	07/15/17 04:42	07/17/17 13:38	3
Methylphenol, 3 & 4	ND		0.11	0.0099	mg/Kg	☼	07/15/17 04:42	07/17/17 13:38	3
Naphthalene	**0.049**		0.022	0.0080	mg/Kg	☼	07/15/17 04:42	07/17/17 13:38	3
Nitrobenzene	ND		0.22	0.0085	mg/Kg	☼	07/15/17 04:42	07/17/17 13:38	3
Pentachlorophenol	ND		0.57	0.21	mg/Kg	☼	07/15/17 04:42	07/17/17 13:38	3
Phenanthrene	**0.26**		0.022	0.0093	mg/Kg	☼	07/15/17 04:42	07/17/17 13:38	3
Phenol	ND		0.11	0.015	mg/Kg	☼	07/15/17 04:42	07/17/17 13:38	3
Pyrene	**0.42**		0.022	0.010	mg/Kg	☼	07/15/17 04:42	07/17/17 13:38	3

Client Sample ID: W6, S2, C 071317 **Lab Sample ID: 180-68219-6**
Date Collected: 07/13/17 08:30 **Matrix: Solid**
Date Received: 07/14/17 13:15 **Percent Solids: 88.2**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyridine	ND		0.11	0.011	mg/Kg	☼	07/15/17 04:42	07/17/17 13:38	3
2,4,5-Trichlorophenol	ND		0.11	0.011	mg/Kg	☼	07/15/17 04:42	07/17/17 13:38	3
2,4,6-Trichlorophenol	ND		0.11	0.0098	mg/Kg	☼	07/15/17 04:42	07/17/17 13:38	3

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*53*		*42 - 100*	*07/15/17 04:42*	*07/17/17 13:38*	*3*
2-Fluorophenol (Surr)	*47*		*21 - 107*	*07/15/17 04:42*	*07/17/17 13:38*	*3*
Nitrobenzene-d5 (Surr)	*56*		*35 - 109*	*07/15/17 04:42*	*07/17/17 13:38*	*3*
Phenol-d5 (Surr)	*43*		*29 - 105*	*07/15/17 04:42*	*07/17/17 13:38*	*3*
Terphenyl-d14 (Surr)	*58*		*36 - 113*	*07/15/17 04:42*	*07/17/17 13:38*	*3*
2,4,6-Tribromophenol (Surr)	*48*		*20 - 134*	*07/15/17 04:42*	*07/17/17 13:38*	*3*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.019	0.010	mg/Kg	☼	07/16/17 13:30	07/17/17 12:35	1
PCB-1221	ND		0.019	0.0098	mg/Kg	☼	07/16/17 13:30	07/17/17 12:35	1
PCB-1232	ND		0.019	0.0075	mg/Kg	☼	07/16/17 13:30	07/17/17 12:35	1
PCB-1242	ND		0.019	0.015	mg/Kg	☼	07/16/17 13:30	07/17/17 12:35	1
PCB-1248	**1.8**		0.019	0.0090	mg/Kg	☼	07/16/17 13:30	07/17/17 12:35	1
PCB-1254	**0.76**		0.019	0.0083	mg/Kg	☼	07/16/17 13:30	07/17/17 12:35	1
PCB-1260	**0.33**		0.019	0.013	mg/Kg	☼	07/16/17 13:30	07/17/17 12:35	1
PCB-1262	ND		0.019	0.014	mg/Kg	☼	07/16/17 13:30	07/17/17 12:35	1
PCB-1268	ND		0.019	0.0058	mg/Kg	☼	07/16/17 13:30	07/17/17 12:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*98*		*23 - 150*	*07/16/17 13:30*	*07/17/17 12:35*	*1*
DCB Decachlorobiphenyl (Surr)	*110*		*23 - 150*	*07/16/17 13:30*	*07/17/17 12:35*	*1*
Tetrachloro-m-xylene (Surr)	*95*		*27 - 138*	*07/16/17 13:30*	*07/17/17 12:35*	*1*
Tetrachloro-m-xylene (Surr)	*92*		*27 - 138*	*07/16/17 13:30*	*07/17/17 12:35*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**6.7**		1.1	0.48	mg/Kg	☼	07/18/17 10:32	07/20/17 13:04	1
Barium	**74**		22	5.8	mg/Kg	☼	07/18/17 10:32	07/20/17 13:04	1
Beryllium	**0.38**	**J**	0.43	0.11	mg/Kg	☼	07/18/17 10:32	07/20/17 13:04	1
Cadmium	**0.14**	**J**	0.54	0.12	mg/Kg	☼	07/18/17 10:32	07/20/17 13:04	1
Chromium	**9.9**		0.54	0.14	mg/Kg	☼	07/18/17 10:32	07/20/17 13:04	1
Copper	**21**		2.7	0.83	mg/Kg	☼	07/18/17 10:32	07/20/17 13:04	1
Lead	**32**		1.1	0.35	mg/Kg	☼	07/18/17 10:32	07/20/17 13:04	1
Manganese	**530**		1.6	0.44	mg/Kg	☼	07/18/17 10:32	07/20/17 13:04	1
Nickel	**19**		4.3	0.97	mg/Kg	☼	07/18/17 10:32	07/20/17 13:04	1
Selenium	ND		1.1	0.43	mg/Kg	☼	07/18/17 10:32	07/20/17 13:04	1
Silver	ND		0.54	0.18	mg/Kg	☼	07/18/17 10:32	07/20/17 13:04	1
Zinc	**81**		2.2	1.1	mg/Kg	☼	07/18/17 10:32	07/20/17 13:04	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.22**		0.036	0.0080	mg/Kg	☼	07/18/17 14:51	07/19/17 12:46	1

Client Sample ID: W6, S2, C 071317 — Lab Sample ID: 180-68219-6

Date Collected: 07/13/17 08:30 — **Matrix: Solid**
Date Received: 07/14/17 13:15 — **Percent Solids: 88.2**

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**11.7**		0.1	0.1	%			07/17/17 12:16	1
Percent Solids	**88.3**		0.1	0.1	%			07/17/17 12:16	1
Cyanide, Total	ND		0.55	0.17	mg/Kg	☼	07/18/17 10:56	07/18/17 14:35	1

Client Sample ID: W6, S3, A 071317 — Lab Sample ID: 180-68219-7

Date Collected: 07/13/17 08:45 — **Matrix: Solid**
Date Received: 07/14/17 13:15 — **Percent Solids: 87.5**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.019	0.0030	mg/Kg	☼	07/19/17 05:28	07/19/17 11:38	1
Benzene	ND		0.0048	0.0019	mg/Kg	☼	07/19/17 05:28	07/19/17 11:38	1
2-Butanone (MEK)	ND		0.0048	0.0028	mg/Kg	☼	07/19/17 05:28	07/19/17 11:38	1
Carbon tetrachloride	ND		0.0048	0.0032	mg/Kg	☼	07/19/17 05:28	07/19/17 11:38	1
Chlorobenzene	ND		0.0048	0.0015	mg/Kg	☼	07/19/17 05:28	07/19/17 11:38	1
Chloroform	ND		0.0048	0.0020	mg/Kg	☼	07/19/17 05:28	07/19/17 11:38	1
cis-1,2-Dichloroethene	ND		0.0048	0.0015	mg/Kg	☼	07/19/17 05:28	07/19/17 11:38	1
1,2-Dichlorobenzene	ND		0.0048	0.0039	mg/Kg	☼	07/19/17 05:28	07/19/17 11:38	1
1,3-Dichlorobenzene	ND		0.0048	0.0015	mg/Kg	☼	07/19/17 05:28	07/19/17 11:38	1
1,4-Dichlorobenzene	ND		0.0048	0.00098	mg/Kg	☼	07/19/17 05:28	07/19/17 11:38	1
1,1-Dichloroethane	ND		0.0048	0.0017	mg/Kg	☼	07/19/17 05:28	07/19/17 11:38	1
1,2-Dichloroethane	ND		0.0048	0.0014	mg/Kg	☼	07/19/17 05:28	07/19/17 11:38	1
1,1-Dichloroethene	ND		0.0048	0.0028	mg/Kg	☼	07/19/17 05:28	07/19/17 11:38	1
Ethylbenzene	ND		0.0048	0.0021	mg/Kg	☼	07/19/17 05:28	07/19/17 11:38	1
Methylene Chloride	**0.0024**	**J**	0.0048	0.0023	mg/Kg	☼	07/19/17 05:28	07/19/17 11:38	1
Methyl tert-butyl ether	ND		0.0048	0.0036	mg/Kg	☼	07/19/17 05:28	07/19/17 11:38	1
n-Butylbenzene	ND		0.0048	0.0037	mg/Kg	☼	07/19/17 05:28	07/19/17 11:38	1
N-Propylbenzene	ND		0.0048	0.0020	mg/Kg	☼	07/19/17 05:28	07/19/17 11:38	1
sec-Butylbenzene	ND		0.0048	0.0024	mg/Kg	☼	07/19/17 05:28	07/19/17 11:38	1
tert-Butylbenzene	ND		0.0048	0.0018	mg/Kg	☼	07/19/17 05:28	07/19/17 11:38	1
Tetrachloroethene	ND		0.0048	0.0019	mg/Kg	☼	07/19/17 05:28	07/19/17 11:38	1
Toluene	ND		0.0048	0.0016	mg/Kg	☼	07/19/17 05:28	07/19/17 11:38	1
trans-1,2-Dichloroethene	ND		0.0048	0.0024	mg/Kg	☼	07/19/17 05:28	07/19/17 11:38	1
1,1,1-Trichloroethane	ND		0.0048	0.0024	mg/Kg	☼	07/19/17 05:28	07/19/17 11:38	1
Trichloroethene	ND		0.0048	0.0015	mg/Kg	☼	07/19/17 05:28	07/19/17 11:38	1
1,2,4-Trimethylbenzene	ND		0.0048	0.0013	mg/Kg	☼	07/19/17 05:28	07/19/17 11:38	1
1,3,5-Trimethylbenzene	ND		0.0048	0.0017	mg/Kg	☼	07/19/17 05:28	07/19/17 11:38	1
Vinyl chloride	ND		0.0048	0.0035	mg/Kg	☼	07/19/17 05:28	07/19/17 11:38	1
Xylenes, Total	ND		0.0097	0.0042	mg/Kg	☼	07/19/17 05:28	07/19/17 11:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*63 - 120*	*07/19/17 05:28*	*07/19/17 11:38*	*1*
Dibromofluoromethane (Surr)	*96*		*68 - 121*	*07/19/17 05:28*	*07/19/17 11:38*	*1*
1,2-Dichloroethane-d4 (Surr)	*87*		*52 - 124*	*07/19/17 05:28*	*07/19/17 11:38*	*1*
Toluene-d8 (Surr)	*114*		*72 - 127*	*07/19/17 05:28*	*07/19/17 11:38*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**12.5**		0.1	0.1	%			07/17/17 14:15	1
Percent Solids	**87.5**		0.1	0.1	%			07/17/17 14:15	1

Client Sample ID: W6, S3, B 071317 — Lab Sample ID: 180-68219-8

Date Collected: 07/13/17 08:50 — **Matrix: Solid**
Date Received: 07/14/17 13:15 — **Percent Solids: 87.5**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.017	0.0027	mg/Kg	☼	07/19/17 05:28	07/19/17 12:00	1
Benzene	ND		0.0043	0.0017	mg/Kg	☼	07/19/17 05:28	07/19/17 12:00	1
2-Butanone (MEK)	ND		0.0043	0.0025	mg/Kg	☼	07/19/17 05:28	07/19/17 12:00	1
Carbon tetrachloride	ND		0.0043	0.0029	mg/Kg	☼	07/19/17 05:28	07/19/17 12:00	1
Chlorobenzene	ND		0.0043	0.0014	mg/Kg	☼	07/19/17 05:28	07/19/17 12:00	1
Chloroform	ND		0.0043	0.0018	mg/Kg	☼	07/19/17 05:28	07/19/17 12:00	1
cis-1,2-Dichloroethene	ND		0.0043	0.0014	mg/Kg	☼	07/19/17 05:28	07/19/17 12:00	1
1,2-Dichlorobenzene	ND		0.0043	0.0035	mg/Kg	☼	07/19/17 05:28	07/19/17 12:00	1
1,3-Dichlorobenzene	ND		0.0043	0.0014	mg/Kg	☼	07/19/17 05:28	07/19/17 12:00	1
1,4-Dichlorobenzene	ND		0.0043	0.00088	mg/Kg	☼	07/19/17 05:28	07/19/17 12:00	1
1,1-Dichloroethane	ND		0.0043	0.0016	mg/Kg	☼	07/19/17 05:28	07/19/17 12:00	1
1,2-Dichloroethane	ND		0.0043	0.0013	mg/Kg	☼	07/19/17 05:28	07/19/17 12:00	1
1,1-Dichloroethene	ND		0.0043	0.0025	mg/Kg	☼	07/19/17 05:28	07/19/17 12:00	1
Ethylbenzene	ND		0.0043	0.0019	mg/Kg	☼	07/19/17 05:28	07/19/17 12:00	1
Methylene Chloride	ND		0.0043	0.0020	mg/Kg	☼	07/19/17 05:28	07/19/17 12:00	1
Methyl tert-butyl ether	ND		0.0043	0.0032	mg/Kg	☼	07/19/17 05:28	07/19/17 12:00	1
n-Butylbenzene	ND		0.0043	0.0033	mg/Kg	☼	07/19/17 05:28	07/19/17 12:00	1
N-Propylbenzene	ND		0.0043	0.0018	mg/Kg	☼	07/19/17 05:28	07/19/17 12:00	1
sec-Butylbenzene	ND		0.0043	0.0021	mg/Kg	☼	07/19/17 05:28	07/19/17 12:00	1
tert-Butylbenzene	ND		0.0043	0.0016	mg/Kg	☼	07/19/17 05:28	07/19/17 12:00	1
Tetrachloroethene	ND		0.0043	0.0017	mg/Kg	☼	07/19/17 05:28	07/19/17 12:00	1
Toluene	ND		0.0043	0.0015	mg/Kg	☼	07/19/17 05:28	07/19/17 12:00	1
trans-1,2-Dichloroethene	ND		0.0043	0.0022	mg/Kg	☼	07/19/17 05:28	07/19/17 12:00	1
1,1,1-Trichloroethane	ND		0.0043	0.0022	mg/Kg	☼	07/19/17 05:28	07/19/17 12:00	1
Trichloroethene	ND		0.0043	0.0013	mg/Kg	☼	07/19/17 05:28	07/19/17 12:00	1
1,2,4-Trimethylbenzene	ND		0.0043	0.0012	mg/Kg	☼	07/19/17 05:28	07/19/17 12:00	1
1,3,5-Trimethylbenzene	ND		0.0043	0.0015	mg/Kg	☼	07/19/17 05:28	07/19/17 12:00	1
Vinyl chloride	ND		0.0043	0.0032	mg/Kg	☼	07/19/17 05:28	07/19/17 12:00	1
Xylenes, Total	ND		0.0086	0.0037	mg/Kg	☼	07/19/17 05:28	07/19/17 12:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*63 - 120*	*07/19/17 05:28*	*07/19/17 12:00*	*1*
Dibromofluoromethane (Surr)	*93*		*68 - 121*	*07/19/17 05:28*	*07/19/17 12:00*	*1*
1,2-Dichloroethane-d4 (Surr)	*84*		*52 - 124*	*07/19/17 05:28*	*07/19/17 12:00*	*1*
Toluene-d8 (Surr)	*114*		*72 - 127*	*07/19/17 05:28*	*07/19/17 12:00*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**12.5**		0.1	0.1	%			07/17/17 14:15	1
Percent Solids	**87.5**		0.1	0.1	%			07/17/17 14:15	1

Client Sample ID: W6, S3, C 071317 — Lab Sample ID: 180-68219-9

Date Collected: 07/13/17 08:55 — **Matrix: Solid**
Date Received: 07/15/17 09:15 — **Percent Solids: 88.7**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.075	0.025	mg/Kg	☼	07/16/17 13:37	07/17/17 12:37	10
Acenaphthylene	**0.13**		0.075	0.025	mg/Kg	☼	07/16/17 13:37	07/17/17 12:37	10
Anthracene	**0.075**		0.075	0.028	mg/Kg	☼	07/16/17 13:37	07/17/17 12:37	10

Client Sample ID: W6, S3, C 071317 **Lab Sample ID: 180-68219-9**
Date Collected: 07/13/17 08:55 **Matrix: Solid**
Date Received: 07/15/17 09:15 **Percent Solids: 88.7**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	**0.32**		0.075	0.030	mg/Kg	☼	07/16/17 13:37	07/17/17 12:37	10
Benzo[a]pyrene	**0.33**		0.075	0.031	mg/Kg	☼	07/16/17 13:37	07/17/17 12:37	10
Benzo[b]fluoranthene	**0.38**		0.075	0.032	mg/Kg	☼	07/16/17 13:37	07/17/17 12:37	10
Benzo[g,h,i]perylene	**0.24**		0.075	0.032	mg/Kg	☼	07/16/17 13:37	07/17/17 12:37	10
Benzo[k]fluoranthene	**0.15**		0.075	0.026	mg/Kg	☼	07/16/17 13:37	07/17/17 12:37	10
Chrysene	**0.31**		0.075	0.029	mg/Kg	☼	07/16/17 13:37	07/17/17 12:37	10
Dibenz(a,h)anthracene	**0.067**	**J**	0.075	0.031	mg/Kg	☼	07/16/17 13:37	07/17/17 12:37	10
Dibenzofuran	ND		0.37	0.030	mg/Kg	☼	07/16/17 13:37	07/17/17 12:37	10
2,4-Dinitrotoluene	ND		0.37	0.049	mg/Kg	☼	07/16/17 13:37	07/17/17 12:37	10
1,4-Dioxane	ND		0.75	0.056	mg/Kg	☼	07/16/17 13:37	07/17/17 12:37	10
Fluoranthene	**0.38**		0.075	0.029	mg/Kg	☼	07/16/17 13:37	07/17/17 12:37	10
Fluorene	**0.029**	**J**	0.075	0.027	mg/Kg	☼	07/16/17 13:37	07/17/17 12:37	10
Hexachlorobenzene	ND		0.075	0.030	mg/Kg	☼	07/16/17 13:37	07/17/17 12:37	10
Hexachlorobutadiene	ND		0.075	0.024	mg/Kg	☼	07/16/17 13:37	07/17/17 12:37	10
Hexachloroethane	ND		0.37	0.027	mg/Kg	☼	07/16/17 13:37	07/17/17 12:37	10
Indeno[1,2,3-cd]pyrene	**0.20**		0.075	0.029	mg/Kg	☼	07/16/17 13:37	07/17/17 12:37	10
2-Methylphenol	ND		0.37	0.033	mg/Kg	☼	07/16/17 13:37	07/17/17 12:37	10
Methylphenol, 3 & 4	ND		0.37	0.033	mg/Kg	☼	07/16/17 13:37	07/17/17 12:37	10
Naphthalene	**0.058**	**J**	0.075	0.027	mg/Kg	☼	07/16/17 13:37	07/17/17 12:37	10
Nitrobenzene	ND		0.75	0.029	mg/Kg	☼	07/16/17 13:37	07/17/17 12:37	10
Pentachlorophenol	ND		1.9	0.71	mg/Kg	☼	07/16/17 13:37	07/17/17 12:37	10
Phenanthrene	**0.16**		0.075	0.031	mg/Kg	☼	07/16/17 13:37	07/17/17 12:37	10
Phenol	ND		0.37	0.050	mg/Kg	☼	07/16/17 13:37	07/17/17 12:37	10
Pyrene	**0.40**		0.075	0.033	mg/Kg	☼	07/16/17 13:37	07/17/17 12:37	10
Pyridine	ND		0.37	0.036	mg/Kg	☼	07/16/17 13:37	07/17/17 12:37	10
2,4,5-Trichlorophenol	ND		0.37	0.036	mg/Kg	☼	07/16/17 13:37	07/17/17 12:37	10
2,4,6-Trichlorophenol	ND		0.37	0.033	mg/Kg	☼	07/16/17 13:37	07/17/17 12:37	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*77*		*42 - 100*	*07/16/17 13:37*	*07/17/17 12:37*	*10*
2-Fluorophenol (Surr)	*64*		*21 - 107*	*07/16/17 13:37*	*07/17/17 12:37*	*10*
Nitrobenzene-d5 (Surr)	*71*		*35 - 109*	*07/16/17 13:37*	*07/17/17 12:37*	*10*
Phenol-d5 (Surr)	*68*		*29 - 105*	*07/16/17 13:37*	*07/17/17 12:37*	*10*
Terphenyl-d14 (Surr)	*82*		*36 - 113*	*07/16/17 13:37*	*07/17/17 12:37*	*10*
2,4,6-Tribromophenol (Surr)	*68*		*20 - 134*	*07/16/17 13:37*	*07/17/17 12:37*	*10*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.019	0.0098	mg/Kg	☼	07/16/17 13:30	07/17/17 12:55	1
PCB-1221	ND		0.019	0.0096	mg/Kg	☼	07/16/17 13:30	07/17/17 12:55	1
PCB-1232	ND		0.019	0.0073	mg/Kg	☼	07/16/17 13:30	07/17/17 12:55	1
PCB-1242	ND		0.019	0.015	mg/Kg	☼	07/16/17 13:30	07/17/17 12:55	1
PCB-1248	**1.2**		0.019	0.0089	mg/Kg	☼	07/16/17 13:30	07/17/17 12:55	1
PCB-1254	**0.55**		0.019	0.0081	mg/Kg	☼	07/16/17 13:30	07/17/17 12:55	1
PCB-1260	**0.23**		0.019	0.012	mg/Kg	☼	07/16/17 13:30	07/17/17 12:55	1
PCB-1262	ND		0.019	0.013	mg/Kg	☼	07/16/17 13:30	07/17/17 12:55	1
PCB-1268	ND		0.019	0.0056	mg/Kg	☼	07/16/17 13:30	07/17/17 12:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*85*		*23 - 150*	*07/16/17 13:30*	*07/17/17 12:55*	*1*

Client Sample ID: W6, S3, C 071317 — Lab Sample ID: 180-68219-9

Date Collected: 07/13/17 08:55 — **Matrix: Solid**
Date Received: 07/15/17 09:15 — **Percent Solids: 88.7**

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*98*		*23 - 150*	*07/16/17 13:30*	*07/17/17 12:55*	*1*
Tetrachloro-m-xylene (Surr)	*80*		*27 - 138*	*07/16/17 13:30*	*07/17/17 12:55*	*1*
Tetrachloro-m-xylene (Surr)	*78*		*27 - 138*	*07/16/17 13:30*	*07/17/17 12:55*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**12**		1.1	0.49	mg/Kg	☼	07/18/17 10:32	07/20/17 13:10	1
Barium	**99**		22	5.9	mg/Kg	☼	07/18/17 10:32	07/20/17 13:10	1
Beryllium	**0.47**		0.44	0.12	mg/Kg	☼	07/18/17 10:32	07/20/17 13:10	1
Cadmium	**0.17**	**J**	0.55	0.12	mg/Kg	☼	07/18/17 10:32	07/20/17 13:10	1
Chromium	**12**		0.55	0.14	mg/Kg	☼	07/18/17 10:32	07/20/17 13:10	1
Copper	**24**		2.8	0.85	mg/Kg	☼	07/18/17 10:32	07/20/17 13:10	1
Lead	**36**		1.1	0.36	mg/Kg	☼	07/18/17 10:32	07/20/17 13:10	1
Manganese	**510**		1.7	0.45	mg/Kg	☼	07/18/17 10:32	07/20/17 13:10	1
Nickel	**22**		4.4	1.0	mg/Kg	☼	07/18/17 10:32	07/20/17 13:10	1
Selenium	ND		1.1	0.44	mg/Kg	☼	07/18/17 10:32	07/20/17 13:10	1
Silver	ND		0.55	0.18	mg/Kg	☼	07/18/17 10:32	07/20/17 13:10	1
Zinc	**76**		2.2	1.1	mg/Kg	☼	07/18/17 10:32	07/20/17 13:10	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.11**		0.039	0.0088	mg/Kg	☼	07/18/17 14:51	07/19/17 13:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**11.3**		0.1	0.1	%			07/17/17 12:16	1
Percent Solids	**88.7**		0.1	0.1	%			07/17/17 12:16	1
Cyanide, Total	ND		0.51	0.16	mg/Kg	☼	07/18/17 10:56	07/18/17 14:37	1

Client Sample ID: W6, S4, A 071317 — Lab Sample ID: 180-68219-10

Date Collected: 07/13/17 09:15 — **Matrix: Solid**
Date Received: 07/14/17 13:15 — **Percent Solids: 90.8**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.018	0.0029	mg/Kg	☼	07/19/17 05:28	07/19/17 12:23	1
Benzene	ND		0.0045	0.0018	mg/Kg	☼	07/19/17 05:28	07/19/17 12:23	1
2-Butanone (MEK)	ND		0.0045	0.0026	mg/Kg	☼	07/19/17 05:28	07/19/17 12:23	1
Carbon tetrachloride	ND		0.0045	0.0030	mg/Kg	☼	07/19/17 05:28	07/19/17 12:23	1
Chlorobenzene	ND		0.0045	0.0014	mg/Kg	☼	07/19/17 05:28	07/19/17 12:23	1
Chloroform	ND		0.0045	0.0019	mg/Kg	☼	07/19/17 05:28	07/19/17 12:23	1
cis-1,2-Dichloroethene	ND		0.0045	0.0014	mg/Kg	☼	07/19/17 05:28	07/19/17 12:23	1
1,2-Dichlorobenzene	ND		0.0045	0.0036	mg/Kg	☼	07/19/17 05:28	07/19/17 12:23	1
1,3-Dichlorobenzene	ND		0.0045	0.0014	mg/Kg	☼	07/19/17 05:28	07/19/17 12:23	1
1,4-Dichlorobenzene	ND		0.0045	0.00092	mg/Kg	☼	07/19/17 05:28	07/19/17 12:23	1
1,1-Dichloroethane	ND		0.0045	0.0016	mg/Kg	☼	07/19/17 05:28	07/19/17 12:23	1
1,2-Dichloroethane	ND		0.0045	0.0013	mg/Kg	☼	07/19/17 05:28	07/19/17 12:23	1
1,1-Dichloroethene	ND		0.0045	0.0026	mg/Kg	☼	07/19/17 05:28	07/19/17 12:23	1
Ethylbenzene	ND		0.0045	0.0020	mg/Kg	☼	07/19/17 05:28	07/19/17 12:23	1
Methylene Chloride	ND		0.0045	0.0021	mg/Kg	☼	07/19/17 05:28	07/19/17 12:23	1

Client Sample ID: W6, S4, A 071317 — Lab Sample ID: 180-68219-10

Date Collected: 07/13/17 09:15 — **Matrix: Solid**
Date Received: 07/14/17 13:15 — **Percent Solids: 90.8**

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.0045	0.0033	mg/Kg	☼	07/19/17 05:28	07/19/17 12:23	1
n-Butylbenzene	ND		0.0045	0.0034	mg/Kg	☼	07/19/17 05:28	07/19/17 12:23	1
N-Propylbenzene	ND		0.0045	0.0019	mg/Kg	☼	07/19/17 05:28	07/19/17 12:23	1
sec-Butylbenzene	ND		0.0045	0.0022	mg/Kg	☼	07/19/17 05:28	07/19/17 12:23	1
tert-Butylbenzene	ND		0.0045	0.0017	mg/Kg	☼	07/19/17 05:28	07/19/17 12:23	1
Tetrachloroethene	ND		0.0045	0.0018	mg/Kg	☼	07/19/17 05:28	07/19/17 12:23	1
Toluene	ND		0.0045	0.0015	mg/Kg	☼	07/19/17 05:28	07/19/17 12:23	1
trans-1,2-Dichloroethene	ND		0.0045	0.0023	mg/Kg	☼	07/19/17 05:28	07/19/17 12:23	1
1,1,1-Trichloroethane	ND		0.0045	0.0023	mg/Kg	☼	07/19/17 05:28	07/19/17 12:23	1
Trichloroethene	ND		0.0045	0.0014	mg/Kg	☼	07/19/17 05:28	07/19/17 12:23	1
1,2,4-Trimethylbenzene	ND		0.0045	0.0012	mg/Kg	☼	07/19/17 05:28	07/19/17 12:23	1
1,3,5-Trimethylbenzene	ND		0.0045	0.0016	mg/Kg	☼	07/19/17 05:28	07/19/17 12:23	1
Vinyl chloride	ND		0.0045	0.0033	mg/Kg	☼	07/19/17 05:28	07/19/17 12:23	1
Xylenes, Total	ND		0.0091	0.0039	mg/Kg	☼	07/19/17 05:28	07/19/17 12:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*63 - 120*	*07/19/17 05:28*	*07/19/17 12:23*	*1*
Dibromofluoromethane (Surr)	*96*		*68 - 121*	*07/19/17 05:28*	*07/19/17 12:23*	*1*
1,2-Dichloroethane-d4 (Surr)	*85*		*52 - 124*	*07/19/17 05:28*	*07/19/17 12:23*	*1*
Toluene-d8 (Surr)	*116*		*72 - 127*	*07/19/17 05:28*	*07/19/17 12:23*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.2**		0.1	0.1	%			07/17/17 14:15	1
Percent Solids	**90.8**		0.1	0.1	%			07/17/17 14:15	1

Client Sample ID: W6, S4, B 071317 — Lab Sample ID: 180-68219-11

Date Collected: 07/13/17 09:20 — **Matrix: Solid**
Date Received: 07/14/17 13:15 — **Percent Solids: 87.9**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.017	0.0027	mg/Kg	☼	07/19/17 05:28	07/19/17 12:46	1
Benzene	ND		0.0043	0.0017	mg/Kg	☼	07/19/17 05:28	07/19/17 12:46	1
2-Butanone (MEK)	ND		0.0043	0.0025	mg/Kg	☼	07/19/17 05:28	07/19/17 12:46	1
Carbon tetrachloride	ND		0.0043	0.0029	mg/Kg	☼	07/19/17 05:28	07/19/17 12:46	1
Chlorobenzene	ND		0.0043	0.0014	mg/Kg	☼	07/19/17 05:28	07/19/17 12:46	1
Chloroform	ND		0.0043	0.0018	mg/Kg	☼	07/19/17 05:28	07/19/17 12:46	1
cis-1,2-Dichloroethene	ND		0.0043	0.0014	mg/Kg	☼	07/19/17 05:28	07/19/17 12:46	1
1,2-Dichlorobenzene	ND		0.0043	0.0035	mg/Kg	☼	07/19/17 05:28	07/19/17 12:46	1
1,3-Dichlorobenzene	ND		0.0043	0.0014	mg/Kg	☼	07/19/17 05:28	07/19/17 12:46	1
1,4-Dichlorobenzene	ND		0.0043	0.00088	mg/Kg	☼	07/19/17 05:28	07/19/17 12:46	1
1,1-Dichloroethane	ND		0.0043	0.0016	mg/Kg	☼	07/19/17 05:28	07/19/17 12:46	1
1,2-Dichloroethane	ND		0.0043	0.0013	mg/Kg	☼	07/19/17 05:28	07/19/17 12:46	1
1,1-Dichloroethene	ND		0.0043	0.0025	mg/Kg	☼	07/19/17 05:28	07/19/17 12:46	1
Ethylbenzene	ND		0.0043	0.0019	mg/Kg	☼	07/19/17 05:28	07/19/17 12:46	1
Methylene Chloride	ND		0.0043	0.0020	mg/Kg	☼	07/19/17 05:28	07/19/17 12:46	1
Methyl tert-butyl ether	ND		0.0043	0.0032	mg/Kg	☼	07/19/17 05:28	07/19/17 12:46	1
n-Butylbenzene	ND		0.0043	0.0033	mg/Kg	☼	07/19/17 05:28	07/19/17 12:46	1
N-Propylbenzene	ND		0.0043	0.0018	mg/Kg	☼	07/19/17 05:28	07/19/17 12:46	1

Client Sample ID: W6, S4, B 071317 — Lab Sample ID: 180-68219-11

Date Collected: 07/13/17 09:20 — **Matrix: Solid**
Date Received: 07/14/17 13:15 — **Percent Solids: 87.9**

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		0.0043	0.0021	mg/Kg	☼	07/19/17 05:28	07/19/17 12:46	1
tert-Butylbenzene	ND		0.0043	0.0016	mg/Kg	☼	07/19/17 05:28	07/19/17 12:46	1
Tetrachloroethene	ND		0.0043	0.0017	mg/Kg	☼	07/19/17 05:28	07/19/17 12:46	1
Toluene	ND		0.0043	0.0015	mg/Kg	☼	07/19/17 05:28	07/19/17 12:46	1
trans-1,2-Dichloroethene	ND		0.0043	0.0022	mg/Kg	☼	07/19/17 05:28	07/19/17 12:46	1
1,1,1-Trichloroethane	ND		0.0043	0.0022	mg/Kg	☼	07/19/17 05:28	07/19/17 12:46	1
Trichloroethene	ND		0.0043	0.0013	mg/Kg	☼	07/19/17 05:28	07/19/17 12:46	1
1,2,4-Trimethylbenzene	ND		0.0043	0.0012	mg/Kg	☼	07/19/17 05:28	07/19/17 12:46	1
1,3,5-Trimethylbenzene	ND		0.0043	0.0015	mg/Kg	☼	07/19/17 05:28	07/19/17 12:46	1
Vinyl chloride	ND		0.0043	0.0032	mg/Kg	☼	07/19/17 05:28	07/19/17 12:46	1
Xylenes, Total	ND		0.0086	0.0037	mg/Kg	☼	07/19/17 05:28	07/19/17 12:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*63 - 120*	*07/19/17 05:28*	*07/19/17 12:46*	*1*
Dibromofluoromethane (Surr)	*96*		*68 - 121*	*07/19/17 05:28*	*07/19/17 12:46*	*1*
1,2-Dichloroethane-d4 (Surr)	*88*		*52 - 124*	*07/19/17 05:28*	*07/19/17 12:46*	*1*
Toluene-d8 (Surr)	*118*		*72 - 127*	*07/19/17 05:28*	*07/19/17 12:46*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**12.1**		0.1	0.1	%			07/17/17 14:15	1
Percent Solids	**87.9**		0.1	0.1	%			07/17/17 14:15	1

Client Sample ID: W6, S4, C 071317 — Lab Sample ID: 180-68219-12

Date Collected: 07/13/17 09:25 — **Matrix: Solid**
Date Received: 07/14/17 13:15 — **Percent Solids: 90.2**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.029	0.0098	mg/Kg	☼	07/18/17 03:38	07/18/17 18:02	4
Acenaphthylene	**0.055**		0.029	0.0099	mg/Kg	☼	07/18/17 03:38	07/18/17 18:02	4
Anthracene	**0.052**		0.029	0.011	mg/Kg	☼	07/18/17 03:38	07/18/17 18:02	4
Benzo[a]anthracene	**0.16**		0.029	0.012	mg/Kg	☼	07/18/17 03:38	07/18/17 18:02	4
Benzo[a]pyrene	**0.15**		0.029	0.012	mg/Kg	☼	07/18/17 03:38	07/18/17 18:02	4
Benzo[b]fluoranthene	**0.19**		0.029	0.013	mg/Kg	☼	07/18/17 03:38	07/18/17 18:02	4
Benzo[g,h,i]perylene	**0.16**		0.029	0.013	mg/Kg	☼	07/18/17 03:38	07/18/17 18:02	4
Benzo[k]fluoranthene	**0.073**		0.029	0.010	mg/Kg	☼	07/18/17 03:38	07/18/17 18:02	4
Chrysene	**0.16**		0.029	0.011	mg/Kg	☼	07/18/17 03:38	07/18/17 18:02	4
Dibenz(a,h)anthracene	**0.040**		0.029	0.012	mg/Kg	☼	07/18/17 03:38	07/18/17 18:02	4
Dibenzofuran	**0.020**	**J**	0.14	0.012	mg/Kg	☼	07/18/17 03:38	07/18/17 18:02	4
2,4-Dinitrotoluene	ND		0.14	0.019	mg/Kg	☼	07/18/17 03:38	07/18/17 18:02	4
1,4-Dioxane	ND		0.29	0.022	mg/Kg	☼	07/18/17 03:38	07/18/17 18:02	4
Fluoranthene	**0.22**		0.029	0.011	mg/Kg	☼	07/18/17 03:38	07/18/17 18:02	4
Fluorene	**0.011**	**J**	0.029	0.010	mg/Kg	☼	07/18/17 03:38	07/18/17 18:02	4
Hexachlorobenzene	ND		0.029	0.012	mg/Kg	☼	07/18/17 03:38	07/18/17 18:02	4
Hexachlorobutadiene	ND		0.029	0.0092	mg/Kg	☼	07/18/17 03:38	07/18/17 18:02	4
Hexachloroethane	ND		0.14	0.010	mg/Kg	☼	07/18/17 03:38	07/18/17 18:02	4
Indeno[1,2,3-cd]pyrene	**0.13**		0.029	0.011	mg/Kg	☼	07/18/17 03:38	07/18/17 18:02	4
2-Methylphenol	ND		0.14	0.013	mg/Kg	☼	07/18/17 03:38	07/18/17 18:02	4
Methylphenol, 3 & 4	ND		0.14	0.013	mg/Kg	☼	07/18/17 03:38	07/18/17 18:02	4

Client Sample ID: W6, S4, C 071317 **Lab Sample ID: 180-68219-12**
Date Collected: 07/13/17 09:25 **Matrix: Solid**
Date Received: 07/14/17 13:15 **Percent Solids: 90.2**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**0.053**		0.029	0.010	mg/Kg	☼	07/18/17 03:38	07/18/17 18:02	4
Nitrobenzene	ND		0.29	0.011	mg/Kg	☼	07/18/17 03:38	07/18/17 18:02	4
Pentachlorophenol	ND		0.74	0.28	mg/Kg	☼	07/18/17 03:38	07/18/17 18:02	4
Phenanthrene	**0.14**		0.029	0.012	mg/Kg	☼	07/18/17 03:38	07/18/17 18:02	4
Phenol	ND		0.14	0.020	mg/Kg	☼	07/18/17 03:38	07/18/17 18:02	4
Pyrene	**0.24**		0.029	0.013	mg/Kg	☼	07/18/17 03:38	07/18/17 18:02	4
Pyridine	ND	F1	0.14	0.014	mg/Kg	☼	07/18/17 03:38	07/18/17 18:02	4
2,4,5-Trichlorophenol	ND		0.14	0.014	mg/Kg	☼	07/18/17 03:38	07/18/17 18:02	4
2,4,6-Trichlorophenol	ND		0.14	0.013	mg/Kg	☼	07/18/17 03:38	07/18/17 18:02	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*70*		*42 - 100*	*07/18/17 03:38*	*07/18/17 18:02*	*4*
2-Fluorophenol (Surr)	*53*		*21 - 107*	*07/18/17 03:38*	*07/18/17 18:02*	*4*
Nitrobenzene-d5 (Surr)	*66*		*35 - 109*	*07/18/17 03:38*	*07/18/17 18:02*	*4*
Phenol-d5 (Surr)	*55*		*29 - 105*	*07/18/17 03:38*	*07/18/17 18:02*	*4*
Terphenyl-d14 (Surr)	*70*		*36 - 113*	*07/18/17 03:38*	*07/18/17 18:02*	*4*
2,4,6-Tribromophenol (Surr)	*64*		*20 - 134*	*07/18/17 03:38*	*07/18/17 18:02*	*4*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.018	0.0096	mg/Kg	☼	07/18/17 03:42	07/18/17 10:46	1
PCB-1221	ND		0.018	0.0094	mg/Kg	☼	07/18/17 03:42	07/18/17 10:46	1
PCB-1232	ND		0.018	0.0072	mg/Kg	☼	07/18/17 03:42	07/18/17 10:46	1
PCB-1242	ND		0.018	0.014	mg/Kg	☼	07/18/17 03:42	07/18/17 10:46	1
PCB-1248	**1.5**		0.018	0.0086	mg/Kg	☼	07/18/17 03:42	07/18/17 10:46	1
PCB-1254	**0.60**		0.018	0.0079	mg/Kg	☼	07/18/17 03:42	07/18/17 10:46	1
PCB-1260	**0.22**		0.018	0.012	mg/Kg	☼	07/18/17 03:42	07/18/17 10:46	1
PCB-1262	ND		0.018	0.013	mg/Kg	☼	07/18/17 03:42	07/18/17 10:46	1
PCB-1268	ND		0.018	0.0055	mg/Kg	☼	07/18/17 03:42	07/18/17 10:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*70*		*23 - 150*	*07/18/17 03:42*	*07/18/17 10:46*	*1*
DCB Decachlorobiphenyl (Surr)	*78*		*23 - 150*	*07/18/17 03:42*	*07/18/17 10:46*	*1*
Tetrachloro-m-xylene (Surr)	*69*		*27 - 138*	*07/18/17 03:42*	*07/18/17 10:46*	*1*
Tetrachloro-m-xylene (Surr)	*68*		*27 - 138*	*07/18/17 03:42*	*07/18/17 10:46*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**7.6**		1.1	0.50	mg/Kg	☼	07/18/17 10:32	07/20/17 13:15	1
Barium	**80**		23	6.1	mg/Kg	☼	07/18/17 10:32	07/20/17 13:15	1
Beryllium	**0.41**	**J**	0.45	0.12	mg/Kg	☼	07/18/17 10:32	07/20/17 13:15	1
Cadmium	**0.16**	**J**	0.57	0.13	mg/Kg	☼	07/18/17 10:32	07/20/17 13:15	1
Chromium	**9.5**		0.57	0.15	mg/Kg	☼	07/18/17 10:32	07/20/17 13:15	1
Copper	**23**		2.8	0.87	mg/Kg	☼	07/18/17 10:32	07/20/17 13:15	1
Lead	**35**		1.1	0.37	mg/Kg	☼	07/18/17 10:32	07/20/17 13:15	1
Manganese	**410**		1.7	0.46	mg/Kg	☼	07/18/17 10:32	07/20/17 13:15	1
Nickel	**18**		4.5	1.0	mg/Kg	☼	07/18/17 10:32	07/20/17 13:15	1
Selenium	**0.83**	**J**	1.1	0.45	mg/Kg	☼	07/18/17 10:32	07/20/17 13:15	1
Silver	ND		0.57	0.19	mg/Kg	☼	07/18/17 10:32	07/20/17 13:15	1
Zinc	**62**		2.3	1.1	mg/Kg	☼	07/18/17 10:32	07/20/17 13:15	1

Client Sample ID: W6, S4, C 071317

Lab Sample ID: 180-68219-12
Date Collected: 07/13/17 09:25
Matrix: Solid
Date Received: 07/14/17 13:15
Percent Solids: 90.2

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.22		0.037	0.0083	mg/Kg	☼	07/18/17 14:51	07/19/17 12:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.8		0.1	0.1	%			07/17/17 14:15	1
Percent Solids	90.2		0.1	0.1	%			07/17/17 14:15	1
Cyanide, Total	ND		0.51	0.16	mg/Kg	☼	07/18/17 10:56	07/18/17 14:42	1

Client Sample ID: W6, S5, A 071317

Lab Sample ID: 180-68219-13
Date Collected: 07/13/17 09:45
Matrix: Solid
Date Received: 07/14/17 13:15
Percent Solids: 91.6

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.020	0.0031	mg/Kg	☼	07/20/17 05:54	07/20/17 11:31	1
Benzene	ND		0.0049	0.0019	mg/Kg	☼	07/20/17 05:54	07/20/17 11:31	1
2-Butanone (MEK)	ND		0.0049	0.0028	mg/Kg	☼	07/20/17 05:54	07/20/17 11:31	1
Carbon tetrachloride	ND		0.0049	0.0032	mg/Kg	☼	07/20/17 05:54	07/20/17 11:31	1
Chlorobenzene	ND		0.0049	0.0015	mg/Kg	☼	07/20/17 05:54	07/20/17 11:31	1
Chloroform	ND		0.0049	0.0021	mg/Kg	☼	07/20/17 05:54	07/20/17 11:31	1
cis-1,2-Dichloroethene	ND		0.0049	0.0015	mg/Kg	☼	07/20/17 05:54	07/20/17 11:31	1
1,2-Dichlorobenzene	ND		0.0049	0.0039	mg/Kg	☼	07/20/17 05:54	07/20/17 11:31	1
1,3-Dichlorobenzene	ND		0.0049	0.0016	mg/Kg	☼	07/20/17 05:54	07/20/17 11:31	1
1,4-Dichlorobenzene	ND		0.0049	0.0010	mg/Kg	☼	07/20/17 05:54	07/20/17 11:31	1
1,1-Dichloroethane	ND		0.0049	0.0018	mg/Kg	☼	07/20/17 05:54	07/20/17 11:31	1
1,2-Dichloroethane	ND		0.0049	0.0014	mg/Kg	☼	07/20/17 05:54	07/20/17 11:31	1
1,1-Dichloroethene	ND		0.0049	0.0028	mg/Kg	☼	07/20/17 05:54	07/20/17 11:31	1
Ethylbenzene	ND		0.0049	0.0021	mg/Kg	☼	07/20/17 05:54	07/20/17 11:31	1
Methylene Chloride	ND		0.0049	0.0023	mg/Kg	☼	07/20/17 05:54	07/20/17 11:31	1
Methyl tert-butyl ether	ND		0.0049	0.0036	mg/Kg	☼	07/20/17 05:54	07/20/17 11:31	1
n-Butylbenzene	ND		0.0049	0.0037	mg/Kg	☼	07/20/17 05:54	07/20/17 11:31	1
N-Propylbenzene	ND		0.0049	0.0021	mg/Kg	☼	07/20/17 05:54	07/20/17 11:31	1
sec-Butylbenzene	ND		0.0049	0.0024	mg/Kg	☼	07/20/17 05:54	07/20/17 11:31	1
tert-Butylbenzene	ND		0.0049	0.0018	mg/Kg	☼	07/20/17 05:54	07/20/17 11:31	1
Tetrachloroethene	ND		0.0049	0.0020	mg/Kg	☼	07/20/17 05:54	07/20/17 11:31	1
Toluene	ND		0.0049	0.0016	mg/Kg	☼	07/20/17 05:54	07/20/17 11:31	1
trans-1,2-Dichloroethene	ND		0.0049	0.0025	mg/Kg	☼	07/20/17 05:54	07/20/17 11:31	1
1,1,1-Trichloroethane	ND		0.0049	0.0025	mg/Kg	☼	07/20/17 05:54	07/20/17 11:31	1
Trichloroethene	ND		0.0049	0.0015	mg/Kg	☼	07/20/17 05:54	07/20/17 11:31	1
1,2,4-Trimethylbenzene	ND		0.0049	0.0013	mg/Kg	☼	07/20/17 05:54	07/20/17 11:31	1
1,3,5-Trimethylbenzene	ND		0.0049	0.0017	mg/Kg	☼	07/20/17 05:54	07/20/17 11:31	1
Vinyl chloride	ND		0.0049	0.0036	mg/Kg	☼	07/20/17 05:54	07/20/17 11:31	1
Xylenes, Total	ND		0.0098	0.0042	mg/Kg	☼	07/20/17 05:54	07/20/17 11:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*63 - 120*	*07/20/17 05:54*	*07/20/17 11:31*	*1*
Dibromofluoromethane (Surr)	*95*		*68 - 121*	*07/20/17 05:54*	*07/20/17 11:31*	*1*
1,2-Dichloroethane-d4 (Surr)	*87*		*52 - 124*	*07/20/17 05:54*	*07/20/17 11:31*	*1*
Toluene-d8 (Surr)	*115*		*72 - 127*	*07/20/17 05:54*	*07/20/17 11:31*	*1*

Client Sample ID: W6, S5, A 071317 — Lab Sample ID: 180-68219-13

Date Collected: 07/13/17 09:45 — **Matrix: Solid**
Date Received: 07/14/17 13:15 — **Percent Solids: 91.6**

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	8.4		0.1	0.1	%			07/17/17 14:15	1
Percent Solids	91.6		0.1	0.1	%			07/17/17 14:15	1

Client Sample ID: W6, S5, B 071317 — Lab Sample ID: 180-68219-14

Date Collected: 07/13/17 09:55 — **Matrix: Solid**
Date Received: 07/14/17 13:15 — **Percent Solids: 90.9**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.017	0.0028	mg/Kg	☼	07/20/17 05:54	07/20/17 11:09	1
Benzene	ND		0.0044	0.0017	mg/Kg	☼	07/20/17 05:54	07/20/17 11:09	1
2-Butanone (MEK)	ND		0.0044	0.0025	mg/Kg	☼	07/20/17 05:54	07/20/17 11:09	1
Carbon tetrachloride	ND		0.0044	0.0029	mg/Kg	☼	07/20/17 05:54	07/20/17 11:09	1
Chlorobenzene	ND		0.0044	0.0014	mg/Kg	☼	07/20/17 05:54	07/20/17 11:09	1
Chloroform	ND		0.0044	0.0018	mg/Kg	☼	07/20/17 05:54	07/20/17 11:09	1
cis-1,2-Dichloroethene	ND		0.0044	0.0014	mg/Kg	☼	07/20/17 05:54	07/20/17 11:09	1
1,2-Dichlorobenzene	ND		0.0044	0.0035	mg/Kg	☼	07/20/17 05:54	07/20/17 11:09	1
1,3-Dichlorobenzene	ND		0.0044	0.0014	mg/Kg	☼	07/20/17 05:54	07/20/17 11:09	1
1,4-Dichlorobenzene	ND		0.0044	0.00089	mg/Kg	☼	07/20/17 05:54	07/20/17 11:09	1
1,1-Dichloroethane	ND		0.0044	0.0016	mg/Kg	☼	07/20/17 05:54	07/20/17 11:09	1
1,2-Dichloroethane	ND		0.0044	0.0013	mg/Kg	☼	07/20/17 05:54	07/20/17 11:09	1
1,1-Dichloroethene	ND		0.0044	0.0025	mg/Kg	☼	07/20/17 05:54	07/20/17 11:09	1
Ethylbenzene	ND		0.0044	0.0019	mg/Kg	☼	07/20/17 05:54	07/20/17 11:09	1
Methylene Chloride	ND		0.0044	0.0021	mg/Kg	☼	07/20/17 05:54	07/20/17 11:09	1
Methyl tert-butyl ether	ND		0.0044	0.0032	mg/Kg	☼	07/20/17 05:54	07/20/17 11:09	1
n-Butylbenzene	ND		0.0044	0.0033	mg/Kg	☼	07/20/17 05:54	07/20/17 11:09	1
N-Propylbenzene	ND		0.0044	0.0018	mg/Kg	☼	07/20/17 05:54	07/20/17 11:09	1
sec-Butylbenzene	ND		0.0044	0.0021	mg/Kg	☼	07/20/17 05:54	07/20/17 11:09	1
tert-Butylbenzene	ND		0.0044	0.0016	mg/Kg	☼	07/20/17 05:54	07/20/17 11:09	1
Tetrachloroethene	ND		0.0044	0.0017	mg/Kg	☼	07/20/17 05:54	07/20/17 11:09	1
Toluene	ND		0.0044	0.0015	mg/Kg	☼	07/20/17 05:54	07/20/17 11:09	1
trans-1,2-Dichloroethene	ND		0.0044	0.0022	mg/Kg	☼	07/20/17 05:54	07/20/17 11:09	1
1,1,1-Trichloroethane	ND		0.0044	0.0022	mg/Kg	☼	07/20/17 05:54	07/20/17 11:09	1
Trichloroethene	ND		0.0044	0.0013	mg/Kg	☼	07/20/17 05:54	07/20/17 11:09	1
1,2,4-Trimethylbenzene	ND		0.0044	0.0012	mg/Kg	☼	07/20/17 05:54	07/20/17 11:09	1
1,3,5-Trimethylbenzene	ND		0.0044	0.0015	mg/Kg	☼	07/20/17 05:54	07/20/17 11:09	1
Vinyl chloride	ND		0.0044	0.0032	mg/Kg	☼	07/20/17 05:54	07/20/17 11:09	1
Xylenes, Total	ND		0.0087	0.0038	mg/Kg	☼	07/20/17 05:54	07/20/17 11:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*63 - 120*	*07/20/17 05:54*	*07/20/17 11:09*	*1*
Dibromofluoromethane (Surr)	*94*		*68 - 121*	*07/20/17 05:54*	*07/20/17 11:09*	*1*
1,2-Dichloroethane-d4 (Surr)	*84*		*52 - 124*	*07/20/17 05:54*	*07/20/17 11:09*	*1*
Toluene-d8 (Surr)	*111*		*72 - 127*	*07/20/17 05:54*	*07/20/17 11:09*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.1		0.1	0.1	%			07/17/17 14:15	1
Percent Solids	90.9		0.1	0.1	%			07/17/17 14:15	1

Client Sample ID: W6, S5, C 071317
Date Collected: 07/13/17 10:00
Date Received: 07/14/17 13:15

Lab Sample ID: 180-68219-15
Matrix: Solid
Percent Solids: 91.8

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.028	0.0095	mg/Kg	☼	07/15/17 04:42	07/17/17 14:06	4
Acenaphthylene	**0.032**		0.028	0.0096	mg/Kg	☼	07/15/17 04:42	07/17/17 14:06	4
Anthracene	**0.066**		0.028	0.010	mg/Kg	☼	07/15/17 04:42	07/17/17 14:06	4
Benzo[a]anthracene	**0.19**		0.028	0.011	mg/Kg	☼	07/15/17 04:42	07/17/17 14:06	4
Benzo[a]pyrene	**0.17**		0.028	0.012	mg/Kg	☼	07/15/17 04:42	07/17/17 14:06	4
Benzo[b]fluoranthene	**0.25**		0.028	0.012	mg/Kg	☼	07/15/17 04:42	07/17/17 14:06	4
Benzo[g,h,i]perylene	**0.19**		0.028	0.012	mg/Kg	☼	07/15/17 04:42	07/17/17 14:06	4
Benzo[k]fluoranthene	**0.050**		0.028	0.0098	mg/Kg	☼	07/15/17 04:42	07/17/17 14:06	4
Chrysene	**0.18**		0.028	0.011	mg/Kg	☼	07/15/17 04:42	07/17/17 14:06	4
Dibenz(a,h)anthracene	**0.045**		0.028	0.012	mg/Kg	☼	07/15/17 04:42	07/17/17 14:06	4
Dibenzofuran	**0.014**	**J**	0.14	0.011	mg/Kg	☼	07/15/17 04:42	07/17/17 14:06	4
2,4-Dinitrotoluene	ND		0.14	0.019	mg/Kg	☼	07/15/17 04:42	07/17/17 14:06	4
1,4-Dioxane	ND		0.28	0.021	mg/Kg	☼	07/15/17 04:42	07/17/17 14:06	4
Fluoranthene	**0.33**		0.028	0.011	mg/Kg	☼	07/15/17 04:42	07/17/17 14:06	4
Fluorene	**0.012**	**J**	0.028	0.010	mg/Kg	☼	07/15/17 04:42	07/17/17 14:06	4
Hexachlorobenzene	ND		0.028	0.011	mg/Kg	☼	07/15/17 04:42	07/17/17 14:06	4
Hexachlorobutadiene	ND		0.028	0.0089	mg/Kg	☼	07/15/17 04:42	07/17/17 14:06	4
Hexachloroethane	ND		0.14	0.010	mg/Kg	☼	07/15/17 04:42	07/17/17 14:06	4
Indeno[1,2,3-cd]pyrene	**0.15**		0.028	0.011	mg/Kg	☼	07/15/17 04:42	07/17/17 14:06	4
2-Methylphenol	ND		0.14	0.012	mg/Kg	☼	07/15/17 04:42	07/17/17 14:06	4
Methylphenol, 3 & 4	ND		0.14	0.013	mg/Kg	☼	07/15/17 04:42	07/17/17 14:06	4
Naphthalene	**0.039**		0.028	0.010	mg/Kg	☼	07/15/17 04:42	07/17/17 14:06	4
Nitrobenzene	ND		0.28	0.011	mg/Kg	☼	07/15/17 04:42	07/17/17 14:06	4
Pentachlorophenol	ND		0.72	0.27	mg/Kg	☼	07/15/17 04:42	07/17/17 14:06	4
Phenanthrene	**0.17**		0.028	0.012	mg/Kg	☼	07/15/17 04:42	07/17/17 14:06	4
Phenol	ND		0.14	0.019	mg/Kg	☼	07/15/17 04:42	07/17/17 14:06	4
Pyrene	**0.30**		0.028	0.013	mg/Kg	☼	07/15/17 04:42	07/17/17 14:06	4
Pyridine	ND		0.14	0.014	mg/Kg	☼	07/15/17 04:42	07/17/17 14:06	4
2,4,5-Trichlorophenol	ND		0.14	0.013	mg/Kg	☼	07/15/17 04:42	07/17/17 14:06	4
2,4,6-Trichlorophenol	ND		0.14	0.012	mg/Kg	☼	07/15/17 04:42	07/17/17 14:06	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*59*		*42 - 100*	*07/15/17 04:42*	*07/17/17 14:06*	*4*
2-Fluorophenol (Surr)	*49*		*21 - 107*	*07/15/17 04:42*	*07/17/17 14:06*	*4*
Nitrobenzene-d5 (Surr)	*61*		*35 - 109*	*07/15/17 04:42*	*07/17/17 14:06*	*4*
Phenol-d5 (Surr)	*50*		*29 - 105*	*07/15/17 04:42*	*07/17/17 14:06*	*4*
Terphenyl-d14 (Surr)	*63*		*36 - 113*	*07/15/17 04:42*	*07/17/17 14:06*	*4*
2,4,6-Tribromophenol (Surr)	*53*		*20 - 134*	*07/15/17 04:42*	*07/17/17 14:06*	*4*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.018	0.0096	mg/Kg	☼	07/16/17 13:30	07/17/17 13:16	1
PCB-1221	ND		0.018	0.0094	mg/Kg	☼	07/16/17 13:30	07/17/17 13:16	1
PCB-1232	ND		0.018	0.0072	mg/Kg	☼	07/16/17 13:30	07/17/17 13:16	1
PCB-1242	ND		0.018	0.014	mg/Kg	☼	07/16/17 13:30	07/17/17 13:16	1
PCB-1248	**1.1**		0.018	0.0087	mg/Kg	☼	07/16/17 13:30	07/17/17 13:16	1
PCB-1254	**0.35**		0.018	0.0080	mg/Kg	☼	07/16/17 13:30	07/17/17 13:16	1
PCB-1260	**0.13**		0.018	0.012	mg/Kg	☼	07/16/17 13:30	07/17/17 13:16	1
PCB-1262	ND		0.018	0.013	mg/Kg	☼	07/16/17 13:30	07/17/17 13:16	1
PCB-1268	ND		0.018	0.0055	mg/Kg	☼	07/16/17 13:30	07/17/17 13:16	1

Client Sample ID: W6, S5, C 071317

Date Collected: 07/13/17 10:00
Date Received: 07/14/17 13:15

Lab Sample ID: 180-68219-15

Matrix: Solid
Percent Solids: 91.8

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*87*		*23 - 150*	*07/16/17 13:30*	*07/17/17 13:16*	*1*
DCB Decachlorobiphenyl (Surr)	*95*		*23 - 150*	*07/16/17 13:30*	*07/17/17 13:16*	*1*
Tetrachloro-m-xylene (Surr)	*90*		*27 - 138*	*07/16/17 13:30*	*07/17/17 13:16*	*1*
Tetrachloro-m-xylene (Surr)	*91*		*27 - 138*	*07/16/17 13:30*	*07/17/17 13:16*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**5.8**		1.1	0.48	mg/Kg	☼	07/18/17 10:32	07/20/17 13:30	1
Barium	**250**		22	5.8	mg/Kg	☼	07/18/17 10:32	07/20/17 13:30	1
Beryllium	**0.23**	**J**	0.44	0.11	mg/Kg	☼	07/18/17 10:32	07/20/17 13:30	1
Cadmium	ND		0.54	0.12	mg/Kg	☼	07/18/17 10:32	07/20/17 13:30	1
Chromium	**6.0**		0.54	0.14	mg/Kg	☼	07/18/17 10:32	07/20/17 13:30	1
Copper	**17**		2.7	0.84	mg/Kg	☼	07/18/17 10:32	07/20/17 13:30	1
Lead	**18**		1.1	0.36	mg/Kg	☼	07/18/17 10:32	07/20/17 13:30	1
Manganese	**390**		1.6	0.44	mg/Kg	☼	07/18/17 10:32	07/20/17 13:30	1
Nickel	**13**		4.4	0.98	mg/Kg	☼	07/18/17 10:32	07/20/17 13:30	1
Selenium	**1.3**		1.1	0.43	mg/Kg	☼	07/18/17 10:32	07/20/17 13:30	1
Silver	ND		0.54	0.18	mg/Kg	☼	07/18/17 10:32	07/20/17 13:30	1
Zinc	**42**		2.2	1.1	mg/Kg	☼	07/18/17 10:32	07/20/17 13:30	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.083**		0.035	0.0078	mg/Kg	☼	07/18/17 14:51	07/19/17 12:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**8.2**		0.1	0.1	%			07/17/17 12:16	1
Percent Solids	**91.8**		0.1	0.1	%			07/17/17 12:16	1
Cyanide, Total	ND		0.48	0.15	mg/Kg	☼	07/18/17 10:56	07/18/17 14:44	1

Client Sample ID: W7, S5, A 71317

Date Collected: 07/13/17 10:15
Date Received: 07/14/17 13:15

Lab Sample ID: 180-68219-16

Matrix: Solid
Percent Solids: 92.0

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.017	0.0026	mg/Kg	☼	07/20/17 05:54	07/20/17 10:46	1
Benzene	ND		0.0042	0.0016	mg/Kg	☼	07/20/17 05:54	07/20/17 10:46	1
2-Butanone (MEK)	ND		0.0042	0.0024	mg/Kg	☼	07/20/17 05:54	07/20/17 10:46	1
Carbon tetrachloride	ND		0.0042	0.0028	mg/Kg	☼	07/20/17 05:54	07/20/17 10:46	1
Chlorobenzene	ND		0.0042	0.0013	mg/Kg	☼	07/20/17 05:54	07/20/17 10:46	1
Chloroform	ND		0.0042	0.0018	mg/Kg	☼	07/20/17 05:54	07/20/17 10:46	1
cis-1,2-Dichloroethene	ND		0.0042	0.0013	mg/Kg	☼	07/20/17 05:54	07/20/17 10:46	1
1,2-Dichlorobenzene	ND		0.0042	0.0034	mg/Kg	☼	07/20/17 05:54	07/20/17 10:46	1
1,3-Dichlorobenzene	ND		0.0042	0.0013	mg/Kg	☼	07/20/17 05:54	07/20/17 10:46	1
1,4-Dichlorobenzene	ND		0.0042	0.00085	mg/Kg	☼	07/20/17 05:54	07/20/17 10:46	1
1,1-Dichloroethane	ND		0.0042	0.0015	mg/Kg	☼	07/20/17 05:54	07/20/17 10:46	1
1,2-Dichloroethane	ND		0.0042	0.0012	mg/Kg	☼	07/20/17 05:54	07/20/17 10:46	1
1,1-Dichloroethene	ND		0.0042	0.0024	mg/Kg	☼	07/20/17 05:54	07/20/17 10:46	1
Ethylbenzene	ND		0.0042	0.0018	mg/Kg	☼	07/20/17 05:54	07/20/17 10:46	1
Methylene Chloride	ND		0.0042	0.0020	mg/Kg	☼	07/20/17 05:54	07/20/17 10:46	1

Client Sample ID: W7, S5, A 71317

Lab Sample ID: 180-68219-16
Date Collected: 07/13/17 10:15
Matrix: Solid
Date Received: 07/14/17 13:15
Percent Solids: 92.0

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.0042	0.0031	mg/Kg	☼	07/20/17 05:54	07/20/17 10:46	1
n-Butylbenzene	ND		0.0042	0.0032	mg/Kg	☼	07/20/17 05:54	07/20/17 10:46	1
N-Propylbenzene	ND		0.0042	0.0018	mg/Kg	☼	07/20/17 05:54	07/20/17 10:46	1
sec-Butylbenzene	ND		0.0042	0.0020	mg/Kg	☼	07/20/17 05:54	07/20/17 10:46	1
tert-Butylbenzene	ND		0.0042	0.0015	mg/Kg	☼	07/20/17 05:54	07/20/17 10:46	1
Tetrachloroethene	ND		0.0042	0.0017	mg/Kg	☼	07/20/17 05:54	07/20/17 10:46	1
Toluene	ND		0.0042	0.0014	mg/Kg	☼	07/20/17 05:54	07/20/17 10:46	1
trans-1,2-Dichloroethene	ND		0.0042	0.0021	mg/Kg	☼	07/20/17 05:54	07/20/17 10:46	1
1,1,1-Trichloroethane	ND		0.0042	0.0021	mg/Kg	☼	07/20/17 05:54	07/20/17 10:46	1
Trichloroethene	ND		0.0042	0.0013	mg/Kg	☼	07/20/17 05:54	07/20/17 10:46	1
1,2,4-Trimethylbenzene	ND		0.0042	0.0011	mg/Kg	☼	07/20/17 05:54	07/20/17 10:46	1
1,3,5-Trimethylbenzene	ND		0.0042	0.0014	mg/Kg	☼	07/20/17 05:54	07/20/17 10:46	1
Vinyl chloride	ND		0.0042	0.0031	mg/Kg	☼	07/20/17 05:54	07/20/17 10:46	1
Xylenes, Total	ND		0.0083	0.0036	mg/Kg	☼	07/20/17 05:54	07/20/17 10:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*63 - 120*	*07/20/17 05:54*	*07/20/17 10:46*	*1*
Dibromofluoromethane (Surr)	*98*		*68 - 121*	*07/20/17 05:54*	*07/20/17 10:46*	*1*
1,2-Dichloroethane-d4 (Surr)	*91*		*52 - 124*	*07/20/17 05:54*	*07/20/17 10:46*	*1*
Toluene-d8 (Surr)	*115*		*72 - 127*	*07/20/17 05:54*	*07/20/17 10:46*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**8.0**		0.1	0.1	%			07/17/17 14:15	1
Percent Solids	**92.0**		0.1	0.1	%			07/17/17 14:15	1

Client Sample ID: W7, S5, B 71317

Lab Sample ID: 180-68219-17
Date Collected: 07/13/17 10:20
Matrix: Solid
Date Received: 07/14/17 13:15
Percent Solids: 93.5

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.018	0.0029	mg/Kg	☼	07/20/17 05:54	07/20/17 10:23	1
Benzene	ND		0.0045	0.0018	mg/Kg	☼	07/20/17 05:54	07/20/17 10:23	1
2-Butanone (MEK)	ND		0.0045	0.0026	mg/Kg	☼	07/20/17 05:54	07/20/17 10:23	1
Carbon tetrachloride	ND		0.0045	0.0030	mg/Kg	☼	07/20/17 05:54	07/20/17 10:23	1
Chlorobenzene	ND		0.0045	0.0014	mg/Kg	☼	07/20/17 05:54	07/20/17 10:23	1
Chloroform	ND		0.0045	0.0019	mg/Kg	☼	07/20/17 05:54	07/20/17 10:23	1
cis-1,2-Dichloroethene	ND		0.0045	0.0014	mg/Kg	☼	07/20/17 05:54	07/20/17 10:23	1
1,2-Dichlorobenzene	ND		0.0045	0.0037	mg/Kg	☼	07/20/17 05:54	07/20/17 10:23	1
1,3-Dichlorobenzene	ND		0.0045	0.0014	mg/Kg	☼	07/20/17 05:54	07/20/17 10:23	1
1,4-Dichlorobenzene	ND		0.0045	0.00093	mg/Kg	☼	07/20/17 05:54	07/20/17 10:23	1
1,1-Dichloroethane	ND		0.0045	0.0016	mg/Kg	☼	07/20/17 05:54	07/20/17 10:23	1
1,2-Dichloroethane	ND		0.0045	0.0013	mg/Kg	☼	07/20/17 05:54	07/20/17 10:23	1
1,1-Dichloroethene	ND		0.0045	0.0026	mg/Kg	☼	07/20/17 05:54	07/20/17 10:23	1
Ethylbenzene	ND		0.0045	0.0020	mg/Kg	☼	07/20/17 05:54	07/20/17 10:23	1
Methylene Chloride	ND		0.0045	0.0021	mg/Kg	☼	07/20/17 05:54	07/20/17 10:23	1
Methyl tert-butyl ether	ND		0.0045	0.0033	mg/Kg	☼	07/20/17 05:54	07/20/17 10:23	1
n-Butylbenzene	ND		0.0045	0.0034	mg/Kg	☼	07/20/17 05:54	07/20/17 10:23	1
N-Propylbenzene	ND		0.0045	0.0019	mg/Kg	☼	07/20/17 05:54	07/20/17 10:23	1

Client Sample ID: W7, S5, B 71317 — Lab Sample ID: 180-68219-17

Date Collected: 07/13/17 10:20 — **Matrix: Solid**
Date Received: 07/14/17 13:15 — **Percent Solids: 93.5**

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		0.0045	0.0022	mg/Kg	☼	07/20/17 05:54	07/20/17 10:23	1
tert-Butylbenzene	ND		0.0045	0.0017	mg/Kg	☼	07/20/17 05:54	07/20/17 10:23	1
Tetrachloroethene	ND		0.0045	0.0018	mg/Kg	☼	07/20/17 05:54	07/20/17 10:23	1
Toluene	ND		0.0045	0.0015	mg/Kg	☼	07/20/17 05:54	07/20/17 10:23	1
trans-1,2-Dichloroethene	ND		0.0045	0.0023	mg/Kg	☼	07/20/17 05:54	07/20/17 10:23	1
1,1,1-Trichloroethane	ND		0.0045	0.0023	mg/Kg	☼	07/20/17 05:54	07/20/17 10:23	1
Trichloroethene	ND		0.0045	0.0014	mg/Kg	☼	07/20/17 05:54	07/20/17 10:23	1
1,2,4-Trimethylbenzene	ND		0.0045	0.0012	mg/Kg	☼	07/20/17 05:54	07/20/17 10:23	1
1,3,5-Trimethylbenzene	ND		0.0045	0.0016	mg/Kg	☼	07/20/17 05:54	07/20/17 10:23	1
Vinyl chloride	ND		0.0045	0.0033	mg/Kg	☼	07/20/17 05:54	07/20/17 10:23	1
Xylenes, Total	ND		0.0091	0.0039	mg/Kg	☼	07/20/17 05:54	07/20/17 10:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*63 - 120*	*07/20/17 05:54*	*07/20/17 10:23*	*1*
Dibromofluoromethane (Surr)	*94*		*68 - 121*	*07/20/17 05:54*	*07/20/17 10:23*	*1*
1,2-Dichloroethane-d4 (Surr)	*85*		*52 - 124*	*07/20/17 05:54*	*07/20/17 10:23*	*1*
Toluene-d8 (Surr)	*113*		*72 - 127*	*07/20/17 05:54*	*07/20/17 10:23*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**6.5**		0.1	0.1	%			07/17/17 14:15	1
Percent Solids	**93.5**		0.1	0.1	%			07/17/17 14:15	1

Client Sample ID: W7, S5, C 71317 — Lab Sample ID: 180-68219-18

Date Collected: 07/13/17 10:25 — **Matrix: Solid**
Date Received: 07/14/17 13:15 — **Percent Solids: 91.6**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0071	0.0024	mg/Kg	☼	07/15/17 04:42	07/17/17 14:33	1
Acenaphthylene	**0.017**		0.0071	0.0024	mg/Kg	☼	07/15/17 04:42	07/17/17 14:33	1
Anthracene	**0.033**		0.0071	0.0026	mg/Kg	☼	07/15/17 04:42	07/17/17 14:33	1
Benzo[a]anthracene	**0.16**		0.0071	0.0028	mg/Kg	☼	07/15/17 04:42	07/17/17 14:33	1
Benzo[a]pyrene	**0.18**		0.0071	0.0029	mg/Kg	☼	07/15/17 04:42	07/17/17 14:33	1
Benzo[b]fluoranthene	**0.21**		0.0071	0.0031	mg/Kg	☼	07/15/17 04:42	07/17/17 14:33	1
Benzo[g,h,i]perylene	**0.16**		0.0071	0.0031	mg/Kg	☼	07/15/17 04:42	07/17/17 14:33	1
Benzo[k]fluoranthene	**0.069**		0.0071	0.0024	mg/Kg	☼	07/15/17 04:42	07/17/17 14:33	1
Chrysene	**0.14**		0.0071	0.0028	mg/Kg	☼	07/15/17 04:42	07/17/17 14:33	1
Dibenz(a,h)anthracene	**0.039**		0.0071	0.0029	mg/Kg	☼	07/15/17 04:42	07/17/17 14:33	1
Dibenzofuran	**0.0045**	**J**	0.035	0.0028	mg/Kg	☼	07/15/17 04:42	07/17/17 14:33	1
2,4-Dinitrotoluene	ND		0.035	0.0047	mg/Kg	☼	07/15/17 04:42	07/17/17 14:33	1
1,4-Dioxane	ND		0.070	0.0053	mg/Kg	☼	07/15/17 04:42	07/17/17 14:33	1
Fluoranthene	**0.24**		0.0071	0.0028	mg/Kg	☼	07/15/17 04:42	07/17/17 14:33	1
Fluorene	**0.0031**	**J**	0.0071	0.0025	mg/Kg	☼	07/15/17 04:42	07/17/17 14:33	1
Hexachlorobenzene	ND		0.0071	0.0028	mg/Kg	☼	07/15/17 04:42	07/17/17 14:33	1
Hexachlorobutadiene	ND		0.0071	0.0022	mg/Kg	☼	07/15/17 04:42	07/17/17 14:33	1
Hexachloroethane	ND		0.035	0.0025	mg/Kg	☼	07/15/17 04:42	07/17/17 14:33	1
Indeno[1,2,3-cd]pyrene	**0.14**		0.0071	0.0027	mg/Kg	☼	07/15/17 04:42	07/17/17 14:33	1
2-Methylphenol	ND		0.035	0.0031	mg/Kg	☼	07/15/17 04:42	07/17/17 14:33	1
Methylphenol, 3 & 4	ND		0.035	0.0031	mg/Kg	☼	07/15/17 04:42	07/17/17 14:33	1

Client Sample ID: W7, S5, C 71317 **Lab Sample ID: 180-68219-18**
Date Collected: 07/13/17 10:25 **Matrix: Solid**
Date Received: 07/14/17 13:15 **Percent Solids: 91.6**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**0.016**		0.0071	0.0025	mg/Kg	☼	07/15/17 04:42	07/17/17 14:33	1
Nitrobenzene	ND		0.070	0.0027	mg/Kg	☼	07/15/17 04:42	07/17/17 14:33	1
Pentachlorophenol	ND		0.18	0.067	mg/Kg	☼	07/15/17 04:42	07/17/17 14:33	1
Phenanthrene	**0.072**		0.0071	0.0029	mg/Kg	☼	07/15/17 04:42	07/17/17 14:33	1
Phenol	ND		0.035	0.0048	mg/Kg	☼	07/15/17 04:42	07/17/17 14:33	1
Pyrene	**0.22**		0.0071	0.0031	mg/Kg	☼	07/15/17 04:42	07/17/17 14:33	1
Pyridine	ND		0.035	0.0034	mg/Kg	☼	07/15/17 04:42	07/17/17 14:33	1
2,4,5-Trichlorophenol	ND		0.035	0.0034	mg/Kg	☼	07/15/17 04:42	07/17/17 14:33	1
2,4,6-Trichlorophenol	ND		0.035	0.0031	mg/Kg	☼	07/15/17 04:42	07/17/17 14:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*55*		*42 - 100*	*07/15/17 04:42*	*07/17/17 14:33*	*1*
2-Fluorophenol (Surr)	*48*		*21 - 107*	*07/15/17 04:42*	*07/17/17 14:33*	*1*
Nitrobenzene-d5 (Surr)	*58*		*35 - 109*	*07/15/17 04:42*	*07/17/17 14:33*	*1*
Phenol-d5 (Surr)	*47*		*29 - 105*	*07/15/17 04:42*	*07/17/17 14:33*	*1*
Terphenyl-d14 (Surr)	*54*		*36 - 113*	*07/15/17 04:42*	*07/17/17 14:33*	*1*
2,4,6-Tribromophenol (Surr)	*57*		*20 - 134*	*07/15/17 04:42*	*07/17/17 14:33*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.018	0.0095	mg/Kg	☼	07/16/17 13:30	07/17/17 13:36	1
PCB-1221	ND		0.018	0.0093	mg/Kg	☼	07/16/17 13:30	07/17/17 13:36	1
PCB-1232	ND		0.018	0.0071	mg/Kg	☼	07/16/17 13:30	07/17/17 13:36	1
PCB-1242	ND		0.018	0.014	mg/Kg	☼	07/16/17 13:30	07/17/17 13:36	1
PCB-1248	**0.24**		0.018	0.0086	mg/Kg	☼	07/16/17 13:30	07/17/17 13:36	1
PCB-1254	**0.12**		0.018	0.0079	mg/Kg	☼	07/16/17 13:30	07/17/17 13:36	1
PCB-1260	**0.047**		0.018	0.012	mg/Kg	☼	07/16/17 13:30	07/17/17 13:36	1
PCB-1262	ND		0.018	0.013	mg/Kg	☼	07/16/17 13:30	07/17/17 13:36	1
PCB-1268	ND		0.018	0.0055	mg/Kg	☼	07/16/17 13:30	07/17/17 13:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*87*		*23 - 150*	*07/16/17 13:30*	*07/17/17 13:36*	*1*
DCB Decachlorobiphenyl (Surr)	*98*		*23 - 150*	*07/16/17 13:30*	*07/17/17 13:36*	*1*
Tetrachloro-m-xylene (Surr)	*87*		*27 - 138*	*07/16/17 13:30*	*07/17/17 13:36*	*1*
Tetrachloro-m-xylene (Surr)	*83*		*27 - 138*	*07/16/17 13:30*	*07/17/17 13:36*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**5.5**		1.1	0.51	mg/Kg	☼	07/18/17 10:32	07/20/17 13:35	1
Barium	**52**		23	6.2	mg/Kg	☼	07/18/17 10:32	07/20/17 13:35	1
Beryllium	**0.30**	**J**	0.46	0.12	mg/Kg	☼	07/18/17 10:32	07/20/17 13:35	1
Cadmium	ND		0.57	0.13	mg/Kg	☼	07/18/17 10:32	07/20/17 13:35	1
Chromium	**7.5**		0.57	0.15	mg/Kg	☼	07/18/17 10:32	07/20/17 13:35	1
Copper	**21**		2.9	0.88	mg/Kg	☼	07/18/17 10:32	07/20/17 13:35	1
Lead	**18**		1.1	0.38	mg/Kg	☼	07/18/17 10:32	07/20/17 13:35	1
Manganese	**490**		1.7	0.47	mg/Kg	☼	07/18/17 10:32	07/20/17 13:35	1
Nickel	**14**		4.6	1.0	mg/Kg	☼	07/18/17 10:32	07/20/17 13:35	1
Selenium	ND		1.1	0.46	mg/Kg	☼	07/18/17 10:32	07/20/17 13:35	1
Silver	ND		0.57	0.19	mg/Kg	☼	07/18/17 10:32	07/20/17 13:35	1
Zinc	**52**		2.3	1.2	mg/Kg	☼	07/18/17 10:32	07/20/17 13:35	1

Client Sample ID: W7, S5, C 71317

Lab Sample ID: 180-68219-18
Date Collected: 07/13/17 10:25
Matrix: Solid
Date Received: 07/14/17 13:15
Percent Solids: 91.6

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.047		0.038	0.0085	mg/Kg	☼	07/18/17 14:51	07/19/17 12:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	8.4		0.1	0.1	%			07/17/17 12:16	1
Percent Solids	91.6		0.1	0.1	%			07/17/17 12:16	1
Cyanide, Total	ND		0.53	0.16	mg/Kg	☼	07/18/17 10:56	07/18/17 14:45	1

Client Sample ID: W7, S4, A 71317

Lab Sample ID: 180-68219-19
Date Collected: 07/13/17 10:45
Matrix: Solid
Date Received: 07/14/17 13:15
Percent Solids: 93.0

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.019	0.0030	mg/Kg	☼	07/20/17 05:54	07/20/17 10:01	1
Benzene	ND		0.0048	0.0019	mg/Kg	☼	07/20/17 05:54	07/20/17 10:01	1
2-Butanone (MEK)	ND		0.0048	0.0028	mg/Kg	☼	07/20/17 05:54	07/20/17 10:01	1
Carbon tetrachloride	ND		0.0048	0.0032	mg/Kg	☼	07/20/17 05:54	07/20/17 10:01	1
Chlorobenzene	ND		0.0048	0.0015	mg/Kg	☼	07/20/17 05:54	07/20/17 10:01	1
Chloroform	ND		0.0048	0.0020	mg/Kg	☼	07/20/17 05:54	07/20/17 10:01	1
cis-1,2-Dichloroethene	ND		0.0048	0.0015	mg/Kg	☼	07/20/17 05:54	07/20/17 10:01	1
1,2-Dichlorobenzene	ND		0.0048	0.0039	mg/Kg	☼	07/20/17 05:54	07/20/17 10:01	1
1,3-Dichlorobenzene	ND		0.0048	0.0015	mg/Kg	☼	07/20/17 05:54	07/20/17 10:01	1
1,4-Dichlorobenzene	ND		0.0048	0.00098	mg/Kg	☼	07/20/17 05:54	07/20/17 10:01	1
1,1-Dichloroethane	ND		0.0048	0.0017	mg/Kg	☼	07/20/17 05:54	07/20/17 10:01	1
1,2-Dichloroethane	ND		0.0048	0.0014	mg/Kg	☼	07/20/17 05:54	07/20/17 10:01	1
1,1-Dichloroethene	ND		0.0048	0.0027	mg/Kg	☼	07/20/17 05:54	07/20/17 10:01	1
Ethylbenzene	ND		0.0048	0.0021	mg/Kg	☼	07/20/17 05:54	07/20/17 10:01	1
Methylene Chloride	ND		0.0048	0.0023	mg/Kg	☼	07/20/17 05:54	07/20/17 10:01	1
Methyl tert-butyl ether	ND		0.0048	0.0035	mg/Kg	☼	07/20/17 05:54	07/20/17 10:01	1
n-Butylbenzene	ND		0.0048	0.0036	mg/Kg	☼	07/20/17 05:54	07/20/17 10:01	1
N-Propylbenzene	ND		0.0048	0.0020	mg/Kg	☼	07/20/17 05:54	07/20/17 10:01	1
sec-Butylbenzene	ND		0.0048	0.0023	mg/Kg	☼	07/20/17 05:54	07/20/17 10:01	1
tert-Butylbenzene	ND		0.0048	0.0018	mg/Kg	☼	07/20/17 05:54	07/20/17 10:01	1
Tetrachloroethene	ND		0.0048	0.0019	mg/Kg	☼	07/20/17 05:54	07/20/17 10:01	1
Toluene	ND		0.0048	0.0016	mg/Kg	☼	07/20/17 05:54	07/20/17 10:01	1
trans-1,2-Dichloroethene	ND		0.0048	0.0024	mg/Kg	☼	07/20/17 05:54	07/20/17 10:01	1
1,1,1-Trichloroethane	ND		0.0048	0.0024	mg/Kg	☼	07/20/17 05:54	07/20/17 10:01	1
Trichloroethene	ND		0.0048	0.0014	mg/Kg	☼	07/20/17 05:54	07/20/17 10:01	1
1,2,4-Trimethylbenzene	ND		0.0048	0.0013	mg/Kg	☼	07/20/17 05:54	07/20/17 10:01	1
1,3,5-Trimethylbenzene	ND		0.0048	0.0017	mg/Kg	☼	07/20/17 05:54	07/20/17 10:01	1
Vinyl chloride	ND		0.0048	0.0035	mg/Kg	☼	07/20/17 05:54	07/20/17 10:01	1
Xylenes, Total	ND		0.0096	0.0041	mg/Kg	☼	07/20/17 05:54	07/20/17 10:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*63 - 120*	*07/20/17 05:54*	*07/20/17 10:01*	*1*
Dibromofluoromethane (Surr)	*92*		*68 - 121*	*07/20/17 05:54*	*07/20/17 10:01*	*1*
1,2-Dichloroethane-d4 (Surr)	*84*		*52 - 124*	*07/20/17 05:54*	*07/20/17 10:01*	*1*
Toluene-d8 (Surr)	*113*		*72 - 127*	*07/20/17 05:54*	*07/20/17 10:01*	*1*

Client Sample ID: W7, S4, A 71317 — Lab Sample ID: 180-68219-19

Date Collected: 07/13/17 10:45 — **Matrix: Solid**
Date Received: 07/14/17 13:15 — **Percent Solids: 93.0**

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	7.0		0.1	0.1	%			07/17/17 14:15	1
Percent Solids	93.0		0.1	0.1	%			07/17/17 14:15	1

Client Sample ID: W7, S4, B 71317 — Lab Sample ID: 180-68219-20

Date Collected: 07/13/17 10:50 — **Matrix: Solid**
Date Received: 07/14/17 13:15 — **Percent Solids: 92.9**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.017	0.0026	mg/Kg	☼	07/19/17 05:28	07/19/17 16:57	1
Benzene	ND		0.0041	0.0016	mg/Kg	☼	07/19/17 05:28	07/19/17 16:57	1
2-Butanone (MEK)	ND		0.0041	0.0024	mg/Kg	☼	07/19/17 05:28	07/19/17 16:57	1
Carbon tetrachloride	ND		0.0041	0.0027	mg/Kg	☼	07/19/17 05:28	07/19/17 16:57	1
Chlorobenzene	ND		0.0041	0.0013	mg/Kg	☼	07/19/17 05:28	07/19/17 16:57	1
Chloroform	ND		0.0041	0.0017	mg/Kg	☼	07/19/17 05:28	07/19/17 16:57	1
cis-1,2-Dichloroethene	ND		0.0041	0.0013	mg/Kg	☼	07/19/17 05:28	07/19/17 16:57	1
1,2-Dichlorobenzene	ND		0.0041	0.0033	mg/Kg	☼	07/19/17 05:28	07/19/17 16:57	1
1,3-Dichlorobenzene	ND		0.0041	0.0013	mg/Kg	☼	07/19/17 05:28	07/19/17 16:57	1
1,4-Dichlorobenzene	ND		0.0041	0.00084	mg/Kg	☼	07/19/17 05:28	07/19/17 16:57	1
1,1-Dichloroethane	ND		0.0041	0.0015	mg/Kg	☼	07/19/17 05:28	07/19/17 16:57	1
1,2-Dichloroethane	ND		0.0041	0.0012	mg/Kg	☼	07/19/17 05:28	07/19/17 16:57	1
1,1-Dichloroethene	ND		0.0041	0.0024	mg/Kg	☼	07/19/17 05:28	07/19/17 16:57	1
Ethylbenzene	ND		0.0041	0.0018	mg/Kg	☼	07/19/17 05:28	07/19/17 16:57	1
Methylene Chloride	ND		0.0041	0.0019	mg/Kg	☼	07/19/17 05:28	07/19/17 16:57	1
Methyl tert-butyl ether	ND		0.0041	0.0030	mg/Kg	☼	07/19/17 05:28	07/19/17 16:57	1
n-Butylbenzene	ND		0.0041	0.0031	mg/Kg	☼	07/19/17 05:28	07/19/17 16:57	1
N-Propylbenzene	ND		0.0041	0.0017	mg/Kg	☼	07/19/17 05:28	07/19/17 16:57	1
sec-Butylbenzene	ND		0.0041	0.0020	mg/Kg	☼	07/19/17 05:28	07/19/17 16:57	1
tert-Butylbenzene	ND		0.0041	0.0015	mg/Kg	☼	07/19/17 05:28	07/19/17 16:57	1
Tetrachloroethene	ND		0.0041	0.0017	mg/Kg	☼	07/19/17 05:28	07/19/17 16:57	1
Toluene	ND		0.0041	0.0014	mg/Kg	☼	07/19/17 05:28	07/19/17 16:57	1
trans-1,2-Dichloroethene	ND		0.0041	0.0021	mg/Kg	☼	07/19/17 05:28	07/19/17 16:57	1
1,1,1-Trichloroethane	ND		0.0041	0.0021	mg/Kg	☼	07/19/17 05:28	07/19/17 16:57	1
Trichloroethene	ND		0.0041	0.0012	mg/Kg	☼	07/19/17 05:28	07/19/17 16:57	1
1,2,4-Trimethylbenzene	ND		0.0041	0.0011	mg/Kg	☼	07/19/17 05:28	07/19/17 16:57	1
1,3,5-Trimethylbenzene	ND		0.0041	0.0014	mg/Kg	☼	07/19/17 05:28	07/19/17 16:57	1
Vinyl chloride	ND		0.0041	0.0030	mg/Kg	☼	07/19/17 05:28	07/19/17 16:57	1
Xylenes, Total	ND		0.0083	0.0036	mg/Kg	☼	07/19/17 05:28	07/19/17 16:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*63 - 120*	*07/19/17 05:28*	*07/19/17 16:57*	*1*
Dibromofluoromethane (Surr)	*94*		*68 - 121*	*07/19/17 05:28*	*07/19/17 16:57*	*1*
1,2-Dichloroethane-d4 (Surr)	*87*		*52 - 124*	*07/19/17 05:28*	*07/19/17 16:57*	*1*
Toluene-d8 (Surr)	*116*		*72 - 127*	*07/19/17 05:28*	*07/19/17 16:57*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	7.1		0.1	0.1	%			07/17/17 14:15	1
Percent Solids	92.9		0.1	0.1	%			07/17/17 14:15	1

Client Sample ID: W7, S4, C 71317
Date Collected: 07/13/17 10:55
Date Received: 07/14/17 13:15

Lab Sample ID: 180-68219-21
Matrix: Solid
Percent Solids: 91.7

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.036	0.012	mg/Kg	☼	07/18/17 03:38	07/18/17 19:23	5
Acenaphthylene	**0.044**		0.036	0.012	mg/Kg	☼	07/18/17 03:38	07/18/17 19:23	5
Anthracene	**0.083**		0.036	0.013	mg/Kg	☼	07/18/17 03:38	07/18/17 19:23	5
Benzo[a]anthracene	**0.35**		0.036	0.014	mg/Kg	☼	07/18/17 03:38	07/18/17 19:23	5
Benzo[a]pyrene	**0.30**		0.036	0.015	mg/Kg	☼	07/18/17 03:38	07/18/17 19:23	5
Benzo[b]fluoranthene	**0.36**		0.036	0.015	mg/Kg	☼	07/18/17 03:38	07/18/17 19:23	5
Benzo[g,h,i]perylene	**0.24**		0.036	0.015	mg/Kg	☼	07/18/17 03:38	07/18/17 19:23	5
Benzo[k]fluoranthene	**0.14**		0.036	0.012	mg/Kg	☼	07/18/17 03:38	07/18/17 19:23	5
Chrysene	**0.30**		0.036	0.014	mg/Kg	☼	07/18/17 03:38	07/18/17 19:23	5
Dibenz(a,h)anthracene	**0.063**		0.036	0.015	mg/Kg	☼	07/18/17 03:38	07/18/17 19:23	5
Dibenzofuran	ND		0.18	0.014	mg/Kg	☼	07/18/17 03:38	07/18/17 19:23	5
2,4-Dinitrotoluene	ND		0.18	0.023	mg/Kg	☼	07/18/17 03:38	07/18/17 19:23	5
1,4-Dioxane	ND		0.35	0.027	mg/Kg	☼	07/18/17 03:38	07/18/17 19:23	5
Fluoranthene	**0.49**		0.036	0.014	mg/Kg	☼	07/18/17 03:38	07/18/17 19:23	5
Fluorene	ND		0.036	0.013	mg/Kg	☼	07/18/17 03:38	07/18/17 19:23	5
Hexachlorobenzene	ND		0.036	0.014	mg/Kg	☼	07/18/17 03:38	07/18/17 19:23	5
Hexachlorobutadiene	ND		0.036	0.011	mg/Kg	☼	07/18/17 03:38	07/18/17 19:23	5
Hexachloroethane	ND		0.18	0.013	mg/Kg	☼	07/18/17 03:38	07/18/17 19:23	5
Indeno[1,2,3-cd]pyrene	**0.21**		0.036	0.014	mg/Kg	☼	07/18/17 03:38	07/18/17 19:23	5
2-Methylphenol	ND		0.18	0.016	mg/Kg	☼	07/18/17 03:38	07/18/17 19:23	5
Methylphenol, 3 & 4	ND		0.18	0.016	mg/Kg	☼	07/18/17 03:38	07/18/17 19:23	5
Naphthalene	**0.029**	**J**	0.036	0.013	mg/Kg	☼	07/18/17 03:38	07/18/17 19:23	5
Nitrobenzene	ND		0.35	0.014	mg/Kg	☼	07/18/17 03:38	07/18/17 19:23	5
Pentachlorophenol	ND		0.90	0.33	mg/Kg	☼	07/18/17 03:38	07/18/17 19:23	5
Phenanthrene	**0.28**		0.036	0.015	mg/Kg	☼	07/18/17 03:38	07/18/17 19:23	5
Phenol	ND		0.18	0.024	mg/Kg	☼	07/18/17 03:38	07/18/17 19:23	5
Pyrene	**0.52**		0.036	0.016	mg/Kg	☼	07/18/17 03:38	07/18/17 19:23	5
Pyridine	ND		0.18	0.017	mg/Kg	☼	07/18/17 03:38	07/18/17 19:23	5
2,4,5-Trichlorophenol	ND		0.18	0.017	mg/Kg	☼	07/18/17 03:38	07/18/17 19:23	5
2,4,6-Trichlorophenol	ND		0.18	0.016	mg/Kg	☼	07/18/17 03:38	07/18/17 19:23	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*63*		*42 - 100*	*07/18/17 03:38*	*07/18/17 19:23*	*5*
2-Fluorophenol (Surr)	*50*		*21 - 107*	*07/18/17 03:38*	*07/18/17 19:23*	*5*
Nitrobenzene-d5 (Surr)	*58*		*35 - 109*	*07/18/17 03:38*	*07/18/17 19:23*	*5*
Phenol-d5 (Surr)	*53*		*29 - 105*	*07/18/17 03:38*	*07/18/17 19:23*	*5*
Terphenyl-d14 (Surr)	*67*		*36 - 113*	*07/18/17 03:38*	*07/18/17 19:23*	*5*
2,4,6-Tribromophenol (Surr)	*65*		*20 - 134*	*07/18/17 03:38*	*07/18/17 19:23*	*5*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.018	0.0095	mg/Kg	☼	07/18/17 03:42	07/18/17 11:07	1
PCB-1221	ND		0.018	0.0093	mg/Kg	☼	07/18/17 03:42	07/18/17 11:07	1
PCB-1232	ND		0.018	0.0071	mg/Kg	☼	07/18/17 03:42	07/18/17 11:07	1
PCB-1242	ND		0.018	0.014	mg/Kg	☼	07/18/17 03:42	07/18/17 11:07	1
PCB-1248	**0.69**		0.018	0.0086	mg/Kg	☼	07/18/17 03:42	07/18/17 11:07	1
PCB-1254	**0.36**		0.018	0.0079	mg/Kg	☼	07/18/17 03:42	07/18/17 11:07	1
PCB-1260	**0.099**		0.018	0.012	mg/Kg	☼	07/18/17 03:42	07/18/17 11:07	1
PCB-1262	ND		0.018	0.013	mg/Kg	☼	07/18/17 03:42	07/18/17 11:07	1
PCB-1268	ND		0.018	0.0055	mg/Kg	☼	07/18/17 03:42	07/18/17 11:07	1

Client Sample ID: W7, S4, C 71317

Lab Sample ID: 180-68219-21

Date Collected: 07/13/17 10:55

Matrix: Solid

Date Received: 07/14/17 13:15

Percent Solids: 91.7

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*69*		*23 - 150*	*07/18/17 03:42*	*07/18/17 11:07*	*1*
DCB Decachlorobiphenyl (Surr)	*77*		*23 - 150*	*07/18/17 03:42*	*07/18/17 11:07*	*1*
Tetrachloro-m-xylene (Surr)	*68*		*27 - 138*	*07/18/17 03:42*	*07/18/17 11:07*	*1*
Tetrachloro-m-xylene (Surr)	*66*		*27 - 138*	*07/18/17 03:42*	*07/18/17 11:07*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**4.8**		1.1	0.48	mg/Kg	☼	07/18/17 10:32	07/20/17 13:41	1
Barium	**40**		22	5.9	mg/Kg	☼	07/18/17 10:32	07/20/17 13:41	1
Beryllium	**0.26**	**J**	0.44	0.11	mg/Kg	☼	07/18/17 10:32	07/20/17 13:41	1
Cadmium	ND		0.55	0.12	mg/Kg	☼	07/18/17 10:32	07/20/17 13:41	1
Chromium	**6.8**		0.55	0.14	mg/Kg	☼	07/18/17 10:32	07/20/17 13:41	1
Copper	**17**		2.7	0.84	mg/Kg	☼	07/18/17 10:32	07/20/17 13:41	1
Lead	**17**		1.1	0.36	mg/Kg	☼	07/18/17 10:32	07/20/17 13:41	1
Manganese	**300**		1.6	0.44	mg/Kg	☼	07/18/17 10:32	07/20/17 13:41	1
Nickel	**12**		4.4	0.98	mg/Kg	☼	07/18/17 10:32	07/20/17 13:41	1
Selenium	ND		1.1	0.43	mg/Kg	☼	07/18/17 10:32	07/20/17 13:41	1
Silver	ND		0.55	0.18	mg/Kg	☼	07/18/17 10:32	07/20/17 13:41	1
Zinc	**47**		2.2	1.1	mg/Kg	☼	07/18/17 10:32	07/20/17 13:41	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.040**		0.037	0.0083	mg/Kg	☼	07/18/17 14:51	07/19/17 12:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**8.3**		0.1	0.1	%			07/17/17 14:15	1
Percent Solids	**91.7**		0.1	0.1	%			07/17/17 14:15	1
Cyanide, Total	**0.39**	**J**	0.52	0.16	mg/Kg	☼	07/18/17 10:56	07/18/17 14:47	1

Client Sample ID: W7, S3, A 71317

Lab Sample ID: 180-68219-22

Date Collected: 07/13/17 11:30

Matrix: Solid

Date Received: 07/14/17 13:15

Percent Solids: 90.5

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.017	0.0027	mg/Kg	☼	07/19/17 05:28	07/19/17 16:34	1
Benzene	ND		0.0042	0.0017	mg/Kg	☼	07/19/17 05:28	07/19/17 16:34	1
2-Butanone (MEK)	ND		0.0042	0.0025	mg/Kg	☼	07/19/17 05:28	07/19/17 16:34	1
Carbon tetrachloride	ND		0.0042	0.0028	mg/Kg	☼	07/19/17 05:28	07/19/17 16:34	1
Chlorobenzene	ND		0.0042	0.0013	mg/Kg	☼	07/19/17 05:28	07/19/17 16:34	1
Chloroform	ND		0.0042	0.0018	mg/Kg	☼	07/19/17 05:28	07/19/17 16:34	1
cis-1,2-Dichloroethene	ND		0.0042	0.0013	mg/Kg	☼	07/19/17 05:28	07/19/17 16:34	1
1,2-Dichlorobenzene	ND		0.0042	0.0034	mg/Kg	☼	07/19/17 05:28	07/19/17 16:34	1
1,3-Dichlorobenzene	ND		0.0042	0.0013	mg/Kg	☼	07/19/17 05:28	07/19/17 16:34	1
1,4-Dichlorobenzene	ND		0.0042	0.00086	mg/Kg	☼	07/19/17 05:28	07/19/17 16:34	1
1,1-Dichloroethane	ND		0.0042	0.0015	mg/Kg	☼	07/19/17 05:28	07/19/17 16:34	1
1,2-Dichloroethane	ND		0.0042	0.0012	mg/Kg	☼	07/19/17 05:28	07/19/17 16:34	1
1,1-Dichloroethene	ND		0.0042	0.0024	mg/Kg	☼	07/19/17 05:28	07/19/17 16:34	1
Ethylbenzene	ND		0.0042	0.0018	mg/Kg	☼	07/19/17 05:28	07/19/17 16:34	1
Methylene Chloride	ND		0.0042	0.0020	mg/Kg	☼	07/19/17 05:28	07/19/17 16:34	1

Client Sample ID: W7, S3, A 71317 — Lab Sample ID: 180-68219-22

Date Collected: 07/13/17 11:30 — **Matrix: Solid**
Date Received: 07/14/17 13:15 — **Percent Solids: 90.5**

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.0042	0.0031	mg/Kg	☼	07/19/17 05:28	07/19/17 16:34	1
n-Butylbenzene	ND		0.0042	0.0032	mg/Kg	☼	07/19/17 05:28	07/19/17 16:34	1
N-Propylbenzene	ND		0.0042	0.0018	mg/Kg	☼	07/19/17 05:28	07/19/17 16:34	1
sec-Butylbenzene	ND		0.0042	0.0021	mg/Kg	☼	07/19/17 05:28	07/19/17 16:34	1
tert-Butylbenzene	ND		0.0042	0.0015	mg/Kg	☼	07/19/17 05:28	07/19/17 16:34	1
Tetrachloroethene	ND		0.0042	0.0017	mg/Kg	☼	07/19/17 05:28	07/19/17 16:34	1
Toluene	ND		0.0042	0.0014	mg/Kg	☼	07/19/17 05:28	07/19/17 16:34	1
trans-1,2-Dichloroethene	ND		0.0042	0.0021	mg/Kg	☼	07/19/17 05:28	07/19/17 16:34	1
1,1,1-Trichloroethane	ND		0.0042	0.0021	mg/Kg	☼	07/19/17 05:28	07/19/17 16:34	1
Trichloroethene	ND		0.0042	0.0013	mg/Kg	☼	07/19/17 05:28	07/19/17 16:34	1
1,2,4-Trimethylbenzene	ND		0.0042	0.0011	mg/Kg	☼	07/19/17 05:28	07/19/17 16:34	1
1,3,5-Trimethylbenzene	ND		0.0042	0.0015	mg/Kg	☼	07/19/17 05:28	07/19/17 16:34	1
Vinyl chloride	ND		0.0042	0.0031	mg/Kg	☼	07/19/17 05:28	07/19/17 16:34	1
Xylenes, Total	ND		0.0085	0.0036	mg/Kg	☼	07/19/17 05:28	07/19/17 16:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*63 - 120*	*07/19/17 05:28*	*07/19/17 16:34*	*1*
Dibromofluoromethane (Surr)	*93*		*68 - 121*	*07/19/17 05:28*	*07/19/17 16:34*	*1*
1,2-Dichloroethane-d4 (Surr)	*86*		*52 - 124*	*07/19/17 05:28*	*07/19/17 16:34*	*1*
Toluene-d8 (Surr)	*113*		*72 - 127*	*07/19/17 05:28*	*07/19/17 16:34*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.5**		0.1	0.1	%			07/17/17 14:15	1
Percent Solids	**90.5**		0.1	0.1	%			07/17/17 14:15	1

Client Sample ID: W7, S3, B 71317 — Lab Sample ID: 180-68219-23

Date Collected: 07/13/17 11:35 — **Matrix: Solid**
Date Received: 07/14/17 13:15 — **Percent Solids: 89.5**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.018	0.0028	mg/Kg	☼	07/19/17 05:28	07/19/17 16:11	1
Benzene	ND		0.0045	0.0018	mg/Kg	☼	07/19/17 05:28	07/19/17 16:11	1
2-Butanone (MEK)	ND		0.0045	0.0026	mg/Kg	☼	07/19/17 05:28	07/19/17 16:11	1
Carbon tetrachloride	ND		0.0045	0.0030	mg/Kg	☼	07/19/17 05:28	07/19/17 16:11	1
Chlorobenzene	ND		0.0045	0.0014	mg/Kg	☼	07/19/17 05:28	07/19/17 16:11	1
Chloroform	ND		0.0045	0.0019	mg/Kg	☼	07/19/17 05:28	07/19/17 16:11	1
cis-1,2-Dichloroethene	ND		0.0045	0.0014	mg/Kg	☼	07/19/17 05:28	07/19/17 16:11	1
1,2-Dichlorobenzene	ND		0.0045	0.0036	mg/Kg	☼	07/19/17 05:28	07/19/17 16:11	1
1,3-Dichlorobenzene	ND		0.0045	0.0014	mg/Kg	☼	07/19/17 05:28	07/19/17 16:11	1
1,4-Dichlorobenzene	ND		0.0045	0.00092	mg/Kg	☼	07/19/17 05:28	07/19/17 16:11	1
1,1-Dichloroethane	ND		0.0045	0.0016	mg/Kg	☼	07/19/17 05:28	07/19/17 16:11	1
1,2-Dichloroethane	ND		0.0045	0.0013	mg/Kg	☼	07/19/17 05:28	07/19/17 16:11	1
1,1-Dichloroethene	ND		0.0045	0.0026	mg/Kg	☼	07/19/17 05:28	07/19/17 16:11	1
Ethylbenzene	ND		0.0045	0.0019	mg/Kg	☼	07/19/17 05:28	07/19/17 16:11	1
Methylene Chloride	ND		0.0045	0.0021	mg/Kg	☼	07/19/17 05:28	07/19/17 16:11	1
Methyl tert-butyl ether	ND		0.0045	0.0033	mg/Kg	☼	07/19/17 05:28	07/19/17 16:11	1
n-Butylbenzene	ND		0.0045	0.0034	mg/Kg	☼	07/19/17 05:28	07/19/17 16:11	1
N-Propylbenzene	ND		0.0045	0.0019	mg/Kg	☼	07/19/17 05:28	07/19/17 16:11	1

Client Sample ID: W7, S3, B 71317 — Lab Sample ID: 180-68219-23

Date Collected: 07/13/17 11:35 — **Matrix: Solid**
Date Received: 07/14/17 13:15 — **Percent Solids: 89.5**

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		0.0045	0.0022	mg/Kg	☼	07/19/17 05:28	07/19/17 16:11	1
tert-Butylbenzene	ND		0.0045	0.0016	mg/Kg	☼	07/19/17 05:28	07/19/17 16:11	1
Tetrachloroethene	ND		0.0045	0.0018	mg/Kg	☼	07/19/17 05:28	07/19/17 16:11	1
Toluene	ND		0.0045	0.0015	mg/Kg	☼	07/19/17 05:28	07/19/17 16:11	1
trans-1,2-Dichloroethene	ND		0.0045	0.0023	mg/Kg	☼	07/19/17 05:28	07/19/17 16:11	1
1,1,1-Trichloroethane	ND		0.0045	0.0023	mg/Kg	☼	07/19/17 05:28	07/19/17 16:11	1
Trichloroethene	ND		0.0045	0.0013	mg/Kg	☼	07/19/17 05:28	07/19/17 16:11	1
1,2,4-Trimethylbenzene	ND		0.0045	0.0012	mg/Kg	☼	07/19/17 05:28	07/19/17 16:11	1
1,3,5-Trimethylbenzene	ND		0.0045	0.0015	mg/Kg	☼	07/19/17 05:28	07/19/17 16:11	1
Vinyl chloride	ND		0.0045	0.0033	mg/Kg	☼	07/19/17 05:28	07/19/17 16:11	1
Xylenes, Total	ND		0.0090	0.0039	mg/Kg	☼	07/19/17 05:28	07/19/17 16:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*63 - 120*	*07/19/17 05:28*	*07/19/17 16:11*	*1*
Dibromofluoromethane (Surr)	*91*		*68 - 121*	*07/19/17 05:28*	*07/19/17 16:11*	*1*
1,2-Dichloroethane-d4 (Surr)	*84*		*52 - 124*	*07/19/17 05:28*	*07/19/17 16:11*	*1*
Toluene-d8 (Surr)	*112*		*72 - 127*	*07/19/17 05:28*	*07/19/17 16:11*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**10.5**		0.1	0.1	%			07/17/17 14:15	1
Percent Solids	**89.5**		0.1	0.1	%			07/17/17 14:15	1

Client Sample ID: W7, S3, C 71317 — Lab Sample ID: 180-68219-24

Date Collected: 07/13/17 11:40 — **Matrix: Solid**
Date Received: 07/14/17 13:15 — **Percent Solids: 89.6**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0074	0.0025	mg/Kg	☼	07/15/17 04:42	07/17/17 15:01	1
Acenaphthylene	**0.020**		0.0074	0.0025	mg/Kg	☼	07/15/17 04:42	07/17/17 15:01	1
Anthracene	**0.045**		0.0074	0.0027	mg/Kg	☼	07/15/17 04:42	07/17/17 15:01	1
Benzo[a]anthracene	**0.15**		0.0074	0.0029	mg/Kg	☼	07/15/17 04:42	07/17/17 15:01	1
Benzo[a]pyrene	**0.15**		0.0074	0.0031	mg/Kg	☼	07/15/17 04:42	07/17/17 15:01	1
Benzo[b]fluoranthene	**0.16**		0.0074	0.0032	mg/Kg	☼	07/15/17 04:42	07/17/17 15:01	1
Benzo[g,h,i]perylene	**0.14**		0.0074	0.0032	mg/Kg	☼	07/15/17 04:42	07/17/17 15:01	1
Benzo[k]fluoranthene	**0.077**		0.0074	0.0026	mg/Kg	☼	07/15/17 04:42	07/17/17 15:01	1
Chrysene	**0.13**		0.0074	0.0029	mg/Kg	☼	07/15/17 04:42	07/17/17 15:01	1
Dibenz(a,h)anthracene	**0.035**		0.0074	0.0031	mg/Kg	☼	07/15/17 04:42	07/17/17 15:01	1
Dibenzofuran	**0.0069**	**J**	0.037	0.0030	mg/Kg	☼	07/15/17 04:42	07/17/17 15:01	1
2,4-Dinitrotoluene	ND		0.037	0.0049	mg/Kg	☼	07/15/17 04:42	07/17/17 15:01	1
1,4-Dioxane	ND		0.074	0.0056	mg/Kg	☼	07/15/17 04:42	07/17/17 15:01	1
Fluoranthene	**0.26**		0.0074	0.0029	mg/Kg	☼	07/15/17 04:42	07/17/17 15:01	1
Fluorene	**0.0070**	**J**	0.0074	0.0026	mg/Kg	☼	07/15/17 04:42	07/17/17 15:01	1
Hexachlorobenzene	ND		0.0074	0.0030	mg/Kg	☼	07/15/17 04:42	07/17/17 15:01	1
Hexachlorobutadiene	ND		0.0074	0.0023	mg/Kg	☼	07/15/17 04:42	07/17/17 15:01	1
Hexachloroethane	ND		0.037	0.0027	mg/Kg	☼	07/15/17 04:42	07/17/17 15:01	1
Indeno[1,2,3-cd]pyrene	**0.13**		0.0074	0.0029	mg/Kg	☼	07/15/17 04:42	07/17/17 15:01	1
2-Methylphenol	ND		0.037	0.0033	mg/Kg	☼	07/15/17 04:42	07/17/17 15:01	1
Methylphenol, 3 & 4	**0.0055**	**J**	0.037	0.0033	mg/Kg	☼	07/15/17 04:42	07/17/17 15:01	1

Client Sample ID: W7, S3, C 71317
Date Collected: 07/13/17 11:40
Date Received: 07/14/17 13:15

Lab Sample ID: 180-68219-24
Matrix: Solid
Percent Solids: 89.6

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**0.022**		0.0074	0.0027	mg/Kg	☼	07/15/17 04:42	07/17/17 15:01	1
Nitrobenzene	ND		0.074	0.0028	mg/Kg	☼	07/15/17 04:42	07/17/17 15:01	1
Pentachlorophenol	ND		0.19	0.070	mg/Kg	☼	07/15/17 04:42	07/17/17 15:01	1
Phenanthrene	**0.15**		0.0074	0.0031	mg/Kg	☼	07/15/17 04:42	07/17/17 15:01	1
Phenol	ND		0.037	0.0050	mg/Kg	☼	07/15/17 04:42	07/17/17 15:01	1
Pyrene	**0.23**		0.0074	0.0033	mg/Kg	☼	07/15/17 04:42	07/17/17 15:01	1
Pyridine	ND		0.037	0.0035	mg/Kg	☼	07/15/17 04:42	07/17/17 15:01	1
2,4,5-Trichlorophenol	ND		0.037	0.0035	mg/Kg	☼	07/15/17 04:42	07/17/17 15:01	1
2,4,6-Trichlorophenol	ND		0.037	0.0032	mg/Kg	☼	07/15/17 04:42	07/17/17 15:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*64*		*42 - 100*	*07/15/17 04:42*	*07/17/17 15:01*	*1*
2-Fluorophenol (Surr)	*53*		*21 - 107*	*07/15/17 04:42*	*07/17/17 15:01*	*1*
Nitrobenzene-d5 (Surr)	*62*		*35 - 109*	*07/15/17 04:42*	*07/17/17 15:01*	*1*
Phenol-d5 (Surr)	*51*		*29 - 105*	*07/15/17 04:42*	*07/17/17 15:01*	*1*
Terphenyl-d14 (Surr)	*58*		*36 - 113*	*07/15/17 04:42*	*07/17/17 15:01*	*1*
2,4,6-Tribromophenol (Surr)	*60*		*20 - 134*	*07/15/17 04:42*	*07/17/17 15:01*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.019	0.0099	mg/Kg	☼	07/16/17 13:30	07/17/17 13:56	1
PCB-1221	ND		0.019	0.0096	mg/Kg	☼	07/16/17 13:30	07/17/17 13:56	1
PCB-1232	ND		0.019	0.0074	mg/Kg	☼	07/16/17 13:30	07/17/17 13:56	1
PCB-1242	ND		0.019	0.015	mg/Kg	☼	07/16/17 13:30	07/17/17 13:56	1
PCB-1248	**0.50**		0.019	0.0089	mg/Kg	☼	07/16/17 13:30	07/17/17 13:56	1
PCB-1254	**0.24**		0.019	0.0082	mg/Kg	☼	07/16/17 13:30	07/17/17 13:56	1
PCB-1260	**0.092**		0.019	0.012	mg/Kg	☼	07/16/17 13:30	07/17/17 13:56	1
PCB-1262	ND		0.019	0.013	mg/Kg	☼	07/16/17 13:30	07/17/17 13:56	1
PCB-1268	ND		0.019	0.0057	mg/Kg	☼	07/16/17 13:30	07/17/17 13:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*83*		*23 - 150*	*07/16/17 13:30*	*07/17/17 13:56*	*1*
DCB Decachlorobiphenyl (Surr)	*92*		*23 - 150*	*07/16/17 13:30*	*07/17/17 13:56*	*1*
Tetrachloro-m-xylene (Surr)	*79*		*27 - 138*	*07/16/17 13:30*	*07/17/17 13:56*	*1*
Tetrachloro-m-xylene (Surr)	*78*		*27 - 138*	*07/16/17 13:30*	*07/17/17 13:56*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**7.4**		1.2	0.52	mg/Kg	☼	07/18/17 10:32	07/20/17 13:46	1
Barium	**78**		24	6.4	mg/Kg	☼	07/18/17 10:32	07/20/17 13:46	1
Beryllium	**0.40**	**J**	0.47	0.12	mg/Kg	☼	07/18/17 10:32	07/20/17 13:46	1
Cadmium	**0.16**	**J**	0.59	0.13	mg/Kg	☼	07/18/17 10:32	07/20/17 13:46	1
Chromium	**11**		0.59	0.15	mg/Kg	☼	07/18/17 10:32	07/20/17 13:46	1
Copper	**23**		3.0	0.91	mg/Kg	☼	07/18/17 10:32	07/20/17 13:46	1
Lead	**24**		1.2	0.39	mg/Kg	☼	07/18/17 10:32	07/20/17 13:46	1
Manganese	**470**		1.8	0.48	mg/Kg	☼	07/18/17 10:32	07/20/17 13:46	1
Nickel	**18**		4.7	1.1	mg/Kg	☼	07/18/17 10:32	07/20/17 13:46	1
Selenium	ND		1.2	0.47	mg/Kg	☼	07/18/17 10:32	07/20/17 13:46	1
Silver	ND		0.59	0.20	mg/Kg	☼	07/18/17 10:32	07/20/17 13:46	1
Zinc	**67**		2.4	1.2	mg/Kg	☼	07/18/17 10:32	07/20/17 13:46	1

Client Sample ID: W7, S3, C 71317

Lab Sample ID: 180-68219-24
Date Collected: 07/13/17 11:40
Matrix: Solid
Date Received: 07/14/17 13:15
Percent Solids: 89.6

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.043		0.042	0.0095	mg/Kg	☼	07/18/17 14:51	07/19/17 12:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	10.4		0.1	0.1	%			07/17/17 12:16	1
Percent Solids	89.6		0.1	0.1	%			07/17/17 12:16	1
Cyanide, Total	ND		0.50	0.15	mg/Kg	☼	07/18/17 10:56	07/18/17 14:49	1

Client Sample ID: W7, S2, A 71317

Lab Sample ID: 180-68219-25
Date Collected: 07/13/17 11:55
Matrix: Solid
Date Received: 07/14/17 13:15
Percent Solids: 90.2

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.017	0.0026	mg/Kg	☼	07/19/17 05:28	07/19/17 15:48	1
Benzene	ND		0.0042	0.0016	mg/Kg	☼	07/19/17 05:28	07/19/17 15:48	1
2-Butanone (MEK)	ND		0.0042	0.0024	mg/Kg	☼	07/19/17 05:28	07/19/17 15:48	1
Carbon tetrachloride	ND		0.0042	0.0028	mg/Kg	☼	07/19/17 05:28	07/19/17 15:48	1
Chlorobenzene	ND		0.0042	0.0013	mg/Kg	☼	07/19/17 05:28	07/19/17 15:48	1
Chloroform	ND		0.0042	0.0018	mg/Kg	☼	07/19/17 05:28	07/19/17 15:48	1
cis-1,2-Dichloroethene	ND		0.0042	0.0013	mg/Kg	☼	07/19/17 05:28	07/19/17 15:48	1
1,2-Dichlorobenzene	ND		0.0042	0.0033	mg/Kg	☼	07/19/17 05:28	07/19/17 15:48	1
1,3-Dichlorobenzene	ND		0.0042	0.0013	mg/Kg	☼	07/19/17 05:28	07/19/17 15:48	1
1,4-Dichlorobenzene	ND		0.0042	0.00085	mg/Kg	☼	07/19/17 05:28	07/19/17 15:48	1
1,1-Dichloroethane	ND		0.0042	0.0015	mg/Kg	☼	07/19/17 05:28	07/19/17 15:48	1
1,2-Dichloroethane	ND		0.0042	0.0012	mg/Kg	☼	07/19/17 05:28	07/19/17 15:48	1
1,1-Dichloroethene	ND		0.0042	0.0024	mg/Kg	☼	07/19/17 05:28	07/19/17 15:48	1
Ethylbenzene	ND		0.0042	0.0018	mg/Kg	☼	07/19/17 05:28	07/19/17 15:48	1
Methylene Chloride	ND		0.0042	0.0020	mg/Kg	☼	07/19/17 05:28	07/19/17 15:48	1
Methyl tert-butyl ether	ND		0.0042	0.0031	mg/Kg	☼	07/19/17 05:28	07/19/17 15:48	1
n-Butylbenzene	ND		0.0042	0.0031	mg/Kg	☼	07/19/17 05:28	07/19/17 15:48	1
N-Propylbenzene	ND		0.0042	0.0018	mg/Kg	☼	07/19/17 05:28	07/19/17 15:48	1
sec-Butylbenzene	ND		0.0042	0.0020	mg/Kg	☼	07/19/17 05:28	07/19/17 15:48	1
tert-Butylbenzene	ND		0.0042	0.0015	mg/Kg	☼	07/19/17 05:28	07/19/17 15:48	1
Tetrachloroethene	ND		0.0042	0.0017	mg/Kg	☼	07/19/17 05:28	07/19/17 15:48	1
Toluene	ND		0.0042	0.0014	mg/Kg	☼	07/19/17 05:28	07/19/17 15:48	1
trans-1,2-Dichloroethene	ND		0.0042	0.0021	mg/Kg	☼	07/19/17 05:28	07/19/17 15:48	1
1,1,1-Trichloroethane	ND		0.0042	0.0021	mg/Kg	☼	07/19/17 05:28	07/19/17 15:48	1
Trichloroethene	ND		0.0042	0.0012	mg/Kg	☼	07/19/17 05:28	07/19/17 15:48	1
1,2,4-Trimethylbenzene	ND		0.0042	0.0011	mg/Kg	☼	07/19/17 05:28	07/19/17 15:48	1
1,3,5-Trimethylbenzene	ND		0.0042	0.0014	mg/Kg	☼	07/19/17 05:28	07/19/17 15:48	1
Vinyl chloride	ND		0.0042	0.0030	mg/Kg	☼	07/19/17 05:28	07/19/17 15:48	1
Xylenes, Total	ND		0.0083	0.0036	mg/Kg	☼	07/19/17 05:28	07/19/17 15:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*63 - 120*	*07/19/17 05:28*	*07/19/17 15:48*	*1*
Dibromofluoromethane (Surr)	*98*		*68 - 121*	*07/19/17 05:28*	*07/19/17 15:48*	*1*
1,2-Dichloroethane-d4 (Surr)	*90*		*52 - 124*	*07/19/17 05:28*	*07/19/17 15:48*	*1*
Toluene-d8 (Surr)	*119*		*72 - 127*	*07/19/17 05:28*	*07/19/17 15:48*	*1*

Client Sample ID: W7, S2, A 71317 — Lab Sample ID: 180-68219-25

Date Collected: 07/13/17 11:55 — **Matrix: Solid**
Date Received: 07/14/17 13:15 — **Percent Solids: 90.2**

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.8		0.1	0.1	%			07/17/17 14:15	1
Percent Solids	90.2		0.1	0.1	%			07/17/17 14:15	1

Client Sample ID: W7, S2, B 71317 — Lab Sample ID: 180-68219-26

Date Collected: 07/13/17 12:00 — **Matrix: Solid**
Date Received: 07/14/17 13:15 — **Percent Solids: 87.4**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.021	0.0033	mg/Kg	☼	07/19/17 05:28	07/19/17 15:26	1
Benzene	ND		0.0052	0.0021	mg/Kg	☼	07/19/17 05:28	07/19/17 15:26	1
2-Butanone (MEK)	ND		0.0052	0.0030	mg/Kg	☼	07/19/17 05:28	07/19/17 15:26	1
Carbon tetrachloride	ND		0.0052	0.0035	mg/Kg	☼	07/19/17 05:28	07/19/17 15:26	1
Chlorobenzene	ND		0.0052	0.0016	mg/Kg	☼	07/19/17 05:28	07/19/17 15:26	1
Chloroform	ND		0.0052	0.0022	mg/Kg	☼	07/19/17 05:28	07/19/17 15:26	1
cis-1,2-Dichloroethene	ND		0.0052	0.0016	mg/Kg	☼	07/19/17 05:28	07/19/17 15:26	1
1,2-Dichlorobenzene	ND		0.0052	0.0042	mg/Kg	☼	07/19/17 05:28	07/19/17 15:26	1
1,3-Dichlorobenzene	ND		0.0052	0.0017	mg/Kg	☼	07/19/17 05:28	07/19/17 15:26	1
1,4-Dichlorobenzene	ND		0.0052	0.0011	mg/Kg	☼	07/19/17 05:28	07/19/17 15:26	1
1,1-Dichloroethane	ND		0.0052	0.0019	mg/Kg	☼	07/19/17 05:28	07/19/17 15:26	1
1,2-Dichloroethane	ND		0.0052	0.0015	mg/Kg	☼	07/19/17 05:28	07/19/17 15:26	1
1,1-Dichloroethene	ND		0.0052	0.0030	mg/Kg	☼	07/19/17 05:28	07/19/17 15:26	1
Ethylbenzene	ND		0.0052	0.0023	mg/Kg	☼	07/19/17 05:28	07/19/17 15:26	1
Methylene Chloride	ND		0.0052	0.0025	mg/Kg	☼	07/19/17 05:28	07/19/17 15:26	1
Methyl tert-butyl ether	ND		0.0052	0.0039	mg/Kg	☼	07/19/17 05:28	07/19/17 15:26	1
n-Butylbenzene	ND		0.0052	0.0040	mg/Kg	☼	07/19/17 05:28	07/19/17 15:26	1
N-Propylbenzene	ND		0.0052	0.0022	mg/Kg	☼	07/19/17 05:28	07/19/17 15:26	1
sec-Butylbenzene	ND		0.0052	0.0026	mg/Kg	☼	07/19/17 05:28	07/19/17 15:26	1
tert-Butylbenzene	ND		0.0052	0.0019	mg/Kg	☼	07/19/17 05:28	07/19/17 15:26	1
Tetrachloroethene	ND		0.0052	0.0021	mg/Kg	☼	07/19/17 05:28	07/19/17 15:26	1
Toluene	ND		0.0052	0.0018	mg/Kg	☼	07/19/17 05:28	07/19/17 15:26	1
trans-1,2-Dichloroethene	ND		0.0052	0.0027	mg/Kg	☼	07/19/17 05:28	07/19/17 15:26	1
1,1,1-Trichloroethane	ND		0.0052	0.0026	mg/Kg	☼	07/19/17 05:28	07/19/17 15:26	1
Trichloroethene	ND		0.0052	0.0016	mg/Kg	☼	07/19/17 05:28	07/19/17 15:26	1
1,2,4-Trimethylbenzene	ND		0.0052	0.0014	mg/Kg	☼	07/19/17 05:28	07/19/17 15:26	1
1,3,5-Trimethylbenzene	ND		0.0052	0.0018	mg/Kg	☼	07/19/17 05:28	07/19/17 15:26	1
Vinyl chloride	ND		0.0052	0.0038	mg/Kg	☼	07/19/17 05:28	07/19/17 15:26	1
Xylenes, Total	ND		0.010	0.0045	mg/Kg	☼	07/19/17 05:28	07/19/17 15:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*63 - 120*	*07/19/17 05:28*	*07/19/17 15:26*	*1*
Dibromofluoromethane (Surr)	*89*		*68 - 121*	*07/19/17 05:28*	*07/19/17 15:26*	*1*
1,2-Dichloroethane-d4 (Surr)	*82*		*52 - 124*	*07/19/17 05:28*	*07/19/17 15:26*	*1*
Toluene-d8 (Surr)	*112*		*72 - 127*	*07/19/17 05:28*	*07/19/17 15:26*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	12.6		0.1	0.1	%			07/17/17 14:15	1
Percent Solids	87.4		0.1	0.1	%			07/17/17 14:15	1

Client Sample ID: W7, S2, C 71317
Date Collected: 07/13/17 12:05
Date Received: 07/14/17 13:15

Lab Sample ID: 180-68219-27
Matrix: Solid
Percent Solids: 89.6

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.75	0.25	mg/Kg	☼	07/15/17 04:42	07/17/17 15:28	100
Acenaphthylene	**1.2**		0.75	0.25	mg/Kg	☼	07/15/17 04:42	07/17/17 15:28	100
Anthracene	**6.0**		0.75	0.27	mg/Kg	☼	07/15/17 04:42	07/17/17 15:28	100
Benzo[a]anthracene	**12**		0.75	0.30	mg/Kg	☼	07/15/17 04:42	07/17/17 15:28	100
Benzo[a]pyrene	**9.8**		0.75	0.31	mg/Kg	☼	07/15/17 04:42	07/17/17 15:28	100
Benzo[b]fluoranthene	**12**		0.75	0.32	mg/Kg	☼	07/15/17 04:42	07/17/17 15:28	100
Benzo[g,h,i]perylene	**7.3**		0.75	0.32	mg/Kg	☼	07/15/17 04:42	07/17/17 15:28	100
Benzo[k]fluoranthene	**3.4**		0.75	0.26	mg/Kg	☼	07/15/17 04:42	07/17/17 15:28	100
Chrysene	**9.3**		0.75	0.29	mg/Kg	☼	07/15/17 04:42	07/17/17 15:28	100
Dibenz(a,h)anthracene	**2.0**		0.75	0.31	mg/Kg	☼	07/15/17 04:42	07/17/17 15:28	100
Dibenzofuran	**0.57**	**J**	3.7	0.30	mg/Kg	☼	07/15/17 04:42	07/17/17 15:28	100
2,4-Dinitrotoluene	ND		3.7	0.49	mg/Kg	☼	07/15/17 04:42	07/17/17 15:28	100
1,4-Dioxane	ND		7.4	0.56	mg/Kg	☼	07/15/17 04:42	07/17/17 15:28	100
Fluoranthene	**24**		0.75	0.29	mg/Kg	☼	07/15/17 04:42	07/17/17 15:28	100
Fluorene	**0.92**		0.75	0.27	mg/Kg	☼	07/15/17 04:42	07/17/17 15:28	100
Hexachlorobenzene	ND		0.75	0.30	mg/Kg	☼	07/15/17 04:42	07/17/17 15:28	100
Hexachlorobutadiene	ND		0.75	0.23	mg/Kg	☼	07/15/17 04:42	07/17/17 15:28	100
Hexachloroethane	ND		3.7	0.27	mg/Kg	☼	07/15/17 04:42	07/17/17 15:28	100
Indeno[1,2,3-cd]pyrene	**7.0**		0.75	0.29	mg/Kg	☼	07/15/17 04:42	07/17/17 15:28	100
2-Methylphenol	ND		3.7	0.33	mg/Kg	☼	07/15/17 04:42	07/17/17 15:28	100
Methylphenol, 3 & 4	ND		3.7	0.33	mg/Kg	☼	07/15/17 04:42	07/17/17 15:28	100
Naphthalene	**0.57**	**J**	0.75	0.27	mg/Kg	☼	07/15/17 04:42	07/17/17 15:28	100
Nitrobenzene	ND		7.4	0.28	mg/Kg	☼	07/15/17 04:42	07/17/17 15:28	100
Pentachlorophenol	ND		19	7.0	mg/Kg	☼	07/15/17 04:42	07/17/17 15:28	100
Phenanthrene	**19**		0.75	0.31	mg/Kg	☼	07/15/17 04:42	07/17/17 15:28	100
Phenol	ND		3.7	0.50	mg/Kg	☼	07/15/17 04:42	07/17/17 15:28	100
Pyrene	**21**		0.75	0.33	mg/Kg	☼	07/15/17 04:42	07/17/17 15:28	100
Pyridine	ND		3.7	0.36	mg/Kg	☼	07/15/17 04:42	07/17/17 15:28	100
2,4,5-Trichlorophenol	ND		3.7	0.35	mg/Kg	☼	07/15/17 04:42	07/17/17 15:28	100
2,4,6-Trichlorophenol	ND		3.7	0.33	mg/Kg	☼	07/15/17 04:42	07/17/17 15:28	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*0*	*X D*	*42 - 100*	*07/15/17 04:42*	*07/17/17 15:28*	*100*
2-Fluorophenol (Surr)	*0*	*X D*	*21 - 107*	*07/15/17 04:42*	*07/17/17 15:28*	*100*
Nitrobenzene-d5 (Surr)	*0*	*X D*	*35 - 109*	*07/15/17 04:42*	*07/17/17 15:28*	*100*
Phenol-d5 (Surr)	*0*	*X D*	*29 - 105*	*07/15/17 04:42*	*07/17/17 15:28*	*100*
Terphenyl-d14 (Surr)	*0*	*X D*	*36 - 113*	*07/15/17 04:42*	*07/17/17 15:28*	*100*
2,4,6-Tribromophenol (Surr)	*0*	*X D*	*20 - 134*	*07/15/17 04:42*	*07/17/17 15:28*	*100*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.018	0.0097	mg/Kg	☼	07/16/17 13:30	07/18/17 09:07	1
PCB-1221	ND		0.018	0.0094	mg/Kg	☼	07/16/17 13:30	07/18/17 09:07	1
PCB-1232	ND		0.018	0.0072	mg/Kg	☼	07/16/17 13:30	07/18/17 09:07	1
PCB-1242	ND		0.018	0.014	mg/Kg	☼	07/16/17 13:30	07/18/17 09:07	1
PCB-1248	**1.5**		0.018	0.0087	mg/Kg	☼	07/16/17 13:30	07/18/17 09:07	1
PCB-1254	**0.53**		0.018	0.0080	mg/Kg	☼	07/16/17 13:30	07/18/17 09:07	1
PCB-1260	**0.19**		0.018	0.012	mg/Kg	☼	07/16/17 13:30	07/18/17 09:07	1
PCB-1262	ND		0.018	0.013	mg/Kg	☼	07/16/17 13:30	07/18/17 09:07	1
PCB-1268	ND		0.018	0.0056	mg/Kg	☼	07/16/17 13:30	07/18/17 09:07	1

Client Sample ID: W7, S2, C 71317

Lab Sample ID: 180-68219-27

Date Collected: 07/13/17 12:05
Matrix: Solid
Date Received: 07/14/17 13:15
Percent Solids: 89.6

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*79*		*23 - 150*	*07/16/17 13:30*	*07/18/17 09:07*	*1*
DCB Decachlorobiphenyl (Surr)	*88*		*23 - 150*	*07/16/17 13:30*	*07/18/17 09:07*	*1*
Tetrachloro-m-xylene (Surr)	*83*		*27 - 138*	*07/16/17 13:30*	*07/18/17 09:07*	*1*
Tetrachloro-m-xylene (Surr)	*79*		*27 - 138*	*07/16/17 13:30*	*07/18/17 09:07*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**9.0**		1.1	0.46	mg/Kg	☼	07/18/17 10:32	07/20/17 13:51	1
Barium	**78**		21	5.7	mg/Kg	☼	07/18/17 10:32	07/20/17 13:51	1
Beryllium	**0.40**	**J**	0.42	0.11	mg/Kg	☼	07/18/17 10:32	07/20/17 13:51	1
Cadmium	**0.18**	**J**	0.53	0.12	mg/Kg	☼	07/18/17 10:32	07/20/17 13:51	1
Chromium	**11**		0.53	0.14	mg/Kg	☼	07/18/17 10:32	07/20/17 13:51	1
Copper	**29**		2.6	0.81	mg/Kg	☼	07/18/17 10:32	07/20/17 13:51	1
Lead	**38**		1.1	0.35	mg/Kg	☼	07/18/17 10:32	07/20/17 13:51	1
Manganese	**440**		1.6	0.43	mg/Kg	☼	07/18/17 10:32	07/20/17 13:51	1
Nickel	**21**		4.2	0.95	mg/Kg	☼	07/18/17 10:32	07/20/17 13:51	1
Selenium	ND		1.1	0.42	mg/Kg	☼	07/18/17 10:32	07/20/17 13:51	1
Silver	ND		0.53	0.17	mg/Kg	☼	07/18/17 10:32	07/20/17 13:51	1
Zinc	**83**		2.1	1.1	mg/Kg	☼	07/18/17 10:32	07/20/17 13:51	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.042**		0.033	0.0074	mg/Kg	☼	07/18/17 14:51	07/19/17 12:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**10.4**		0.1	0.1	%			07/17/17 12:16	1
Percent Solids	**89.6**		0.1	0.1	%			07/17/17 12:16	1
Cyanide, Total	**0.23**	**J**	0.49	0.15	mg/Kg	☼	07/18/17 10:56	07/18/17 14:51	1

Client Sample ID: W7, S1, A 71317

Lab Sample ID: 180-68219-28

Date Collected: 07/13/17 12:15
Matrix: Solid
Date Received: 07/14/17 13:15
Percent Solids: 90.5

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.015	0.0024	mg/Kg	☼	07/19/17 05:28	07/19/17 15:02	1
Benzene	ND		0.0038	0.0015	mg/Kg	☼	07/19/17 05:28	07/19/17 15:02	1
2-Butanone (MEK)	ND		0.0038	0.0022	mg/Kg	☼	07/19/17 05:28	07/19/17 15:02	1
Carbon tetrachloride	ND		0.0038	0.0025	mg/Kg	☼	07/19/17 05:28	07/19/17 15:02	1
Chlorobenzene	ND		0.0038	0.0012	mg/Kg	☼	07/19/17 05:28	07/19/17 15:02	1
Chloroform	ND		0.0038	0.0016	mg/Kg	☼	07/19/17 05:28	07/19/17 15:02	1
cis-1,2-Dichloroethene	ND		0.0038	0.0012	mg/Kg	☼	07/19/17 05:28	07/19/17 15:02	1
1,2-Dichlorobenzene	ND		0.0038	0.0031	mg/Kg	☼	07/19/17 05:28	07/19/17 15:02	1
1,3-Dichlorobenzene	ND		0.0038	0.0012	mg/Kg	☼	07/19/17 05:28	07/19/17 15:02	1
1,4-Dichlorobenzene	ND		0.0038	0.00077	mg/Kg	☼	07/19/17 05:28	07/19/17 15:02	1
1,1-Dichloroethane	ND		0.0038	0.0014	mg/Kg	☼	07/19/17 05:28	07/19/17 15:02	1
1,2-Dichloroethane	ND		0.0038	0.0011	mg/Kg	☼	07/19/17 05:28	07/19/17 15:02	1
1,1-Dichloroethene	ND		0.0038	0.0022	mg/Kg	☼	07/19/17 05:28	07/19/17 15:02	1
Ethylbenzene	ND		0.0038	0.0016	mg/Kg	☼	07/19/17 05:28	07/19/17 15:02	1
Methylene Chloride	ND		0.0038	0.0018	mg/Kg	☼	07/19/17 05:28	07/19/17 15:02	1

Client Sample ID: W7, S1, A 71317 — Lab Sample ID: 180-68219-28

Date Collected: 07/13/17 12:15 — **Matrix: Solid**
Date Received: 07/14/17 13:15 — **Percent Solids: 90.5**

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.0038	0.0028	mg/Kg	☼	07/19/17 05:28	07/19/17 15:02	1
n-Butylbenzene	ND		0.0038	0.0029	mg/Kg	☼	07/19/17 05:28	07/19/17 15:02	1
N-Propylbenzene	ND		0.0038	0.0016	mg/Kg	☼	07/19/17 05:28	07/19/17 15:02	1
sec-Butylbenzene	ND		0.0038	0.0019	mg/Kg	☼	07/19/17 05:28	07/19/17 15:02	1
tert-Butylbenzene	ND		0.0038	0.0014	mg/Kg	☼	07/19/17 05:28	07/19/17 15:02	1
Tetrachloroethene	ND		0.0038	0.0015	mg/Kg	☼	07/19/17 05:28	07/19/17 15:02	1
Toluene	ND		0.0038	0.0013	mg/Kg	☼	07/19/17 05:28	07/19/17 15:02	1
trans-1,2-Dichloroethene	ND		0.0038	0.0019	mg/Kg	☼	07/19/17 05:28	07/19/17 15:02	1
1,1,1-Trichloroethane	ND		0.0038	0.0019	mg/Kg	☼	07/19/17 05:28	07/19/17 15:02	1
Trichloroethene	ND		0.0038	0.0011	mg/Kg	☼	07/19/17 05:28	07/19/17 15:02	1
1,2,4-Trimethylbenzene	ND		0.0038	0.0010	mg/Kg	☼	07/19/17 05:28	07/19/17 15:02	1
1,3,5-Trimethylbenzene	ND		0.0038	0.0013	mg/Kg	☼	07/19/17 05:28	07/19/17 15:02	1
Vinyl chloride	ND		0.0038	0.0028	mg/Kg	☼	07/19/17 05:28	07/19/17 15:02	1
Xylenes, Total	ND		0.0076	0.0033	mg/Kg	☼	07/19/17 05:28	07/19/17 15:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*63 - 120*	*07/19/17 05:28*	*07/19/17 15:02*	*1*
Dibromofluoromethane (Surr)	*91*		*68 - 121*	*07/19/17 05:28*	*07/19/17 15:02*	*1*
1,2-Dichloroethane-d4 (Surr)	*83*		*52 - 124*	*07/19/17 05:28*	*07/19/17 15:02*	*1*
Toluene-d8 (Surr)	*113*		*72 - 127*	*07/19/17 05:28*	*07/19/17 15:02*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.5**		0.1	0.1	%			07/17/17 14:15	1
Percent Solids	**90.5**		0.1	0.1	%			07/17/17 14:15	1

Client Sample ID: W7, S1, B 71317 — Lab Sample ID: 180-68219-29

Date Collected: 07/13/17 12:20 — **Matrix: Solid**
Date Received: 07/14/17 13:15 — **Percent Solids: 91.0**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.015	0.0024	mg/Kg	☼	07/19/17 05:28	07/19/17 14:40	1
Benzene	ND		0.0038	0.0015	mg/Kg	☼	07/19/17 05:28	07/19/17 14:40	1
2-Butanone (MEK)	ND		0.0038	0.0022	mg/Kg	☼	07/19/17 05:28	07/19/17 14:40	1
Carbon tetrachloride	ND		0.0038	0.0025	mg/Kg	☼	07/19/17 05:28	07/19/17 14:40	1
Chlorobenzene	ND		0.0038	0.0012	mg/Kg	☼	07/19/17 05:28	07/19/17 14:40	1
Chloroform	ND		0.0038	0.0016	mg/Kg	☼	07/19/17 05:28	07/19/17 14:40	1
cis-1,2-Dichloroethene	ND		0.0038	0.0012	mg/Kg	☼	07/19/17 05:28	07/19/17 14:40	1
1,2-Dichlorobenzene	ND		0.0038	0.0030	mg/Kg	☼	07/19/17 05:28	07/19/17 14:40	1
1,3-Dichlorobenzene	ND		0.0038	0.0012	mg/Kg	☼	07/19/17 05:28	07/19/17 14:40	1
1,4-Dichlorobenzene	ND		0.0038	0.00077	mg/Kg	☼	07/19/17 05:28	07/19/17 14:40	1
1,1-Dichloroethane	ND		0.0038	0.0014	mg/Kg	☼	07/19/17 05:28	07/19/17 14:40	1
1,2-Dichloroethane	ND		0.0038	0.0011	mg/Kg	☼	07/19/17 05:28	07/19/17 14:40	1
1,1-Dichloroethene	ND		0.0038	0.0021	mg/Kg	☼	07/19/17 05:28	07/19/17 14:40	1
Ethylbenzene	ND		0.0038	0.0016	mg/Kg	☼	07/19/17 05:28	07/19/17 14:40	1
Methylene Chloride	ND		0.0038	0.0018	mg/Kg	☼	07/19/17 05:28	07/19/17 14:40	1
Methyl tert-butyl ether	ND		0.0038	0.0028	mg/Kg	☼	07/19/17 05:28	07/19/17 14:40	1
n-Butylbenzene	ND		0.0038	0.0029	mg/Kg	☼	07/19/17 05:28	07/19/17 14:40	1
N-Propylbenzene	ND		0.0038	0.0016	mg/Kg	☼	07/19/17 05:28	07/19/17 14:40	1

Client Sample ID: W7, S1, B 71317

Lab Sample ID: 180-68219-29
Date Collected: 07/13/17 12:20
Matrix: Solid
Date Received: 07/14/17 13:15
Percent Solids: 91.0

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		0.0038	0.0018	mg/Kg	☼	07/19/17 05:28	07/19/17 14:40	1
tert-Butylbenzene	ND		0.0038	0.0014	mg/Kg	☼	07/19/17 05:28	07/19/17 14:40	1
Tetrachloroethene	ND		0.0038	0.0015	mg/Kg	☼	07/19/17 05:28	07/19/17 14:40	1
Toluene	ND		0.0038	0.0013	mg/Kg	☼	07/19/17 05:28	07/19/17 14:40	1
trans-1,2-Dichloroethene	ND		0.0038	0.0019	mg/Kg	☼	07/19/17 05:28	07/19/17 14:40	1
1,1,1-Trichloroethane	ND		0.0038	0.0019	mg/Kg	☼	07/19/17 05:28	07/19/17 14:40	1
Trichloroethene	ND		0.0038	0.0011	mg/Kg	☼	07/19/17 05:28	07/19/17 14:40	1
1,2,4-Trimethylbenzene	ND		0.0038	0.0010	mg/Kg	☼	07/19/17 05:28	07/19/17 14:40	1
1,3,5-Trimethylbenzene	ND		0.0038	0.0013	mg/Kg	☼	07/19/17 05:28	07/19/17 14:40	1
Vinyl chloride	ND		0.0038	0.0028	mg/Kg	☼	07/19/17 05:28	07/19/17 14:40	1
Xylenes, Total	ND		0.0075	0.0032	mg/Kg	☼	07/19/17 05:28	07/19/17 14:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*63 - 120*	*07/19/17 05:28*	*07/19/17 14:40*	*1*
Dibromofluoromethane (Surr)	*96*		*68 - 121*	*07/19/17 05:28*	*07/19/17 14:40*	*1*
1,2-Dichloroethane-d4 (Surr)	*91*		*52 - 124*	*07/19/17 05:28*	*07/19/17 14:40*	*1*
Toluene-d8 (Surr)	*115*		*72 - 127*	*07/19/17 05:28*	*07/19/17 14:40*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.0**		0.1	0.1	%			07/17/17 15:21	1
Percent Solids	**91.0**		0.1	0.1	%			07/17/17 15:21	1

Client Sample ID: W7, S1, C 71317

Lab Sample ID: 180-68219-30
Date Collected: 07/13/17 12:25
Matrix: Solid
Date Received: 07/14/17 13:15
Percent Solids: 90.2

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.029**	**J**	0.073	0.024	mg/Kg	☼	07/15/17 04:42	07/17/17 15:56	10
Acenaphthylene	**0.28**		0.073	0.025	mg/Kg	☼	07/15/17 04:42	07/17/17 15:56	10
Anthracene	**0.69**		0.073	0.027	mg/Kg	☼	07/15/17 04:42	07/17/17 15:56	10
Benzo[a]anthracene	**1.9**		0.073	0.029	mg/Kg	☼	07/15/17 04:42	07/17/17 15:56	10
Benzo[a]pyrene	**2.0**		0.073	0.030	mg/Kg	☼	07/15/17 04:42	07/17/17 15:56	10
Benzo[b]fluoranthene	**2.4**		0.073	0.031	mg/Kg	☼	07/15/17 04:42	07/17/17 15:56	10
Benzo[g,h,i]perylene	**2.0**		0.073	0.031	mg/Kg	☼	07/15/17 04:42	07/17/17 15:56	10
Benzo[k]fluoranthene	**0.70**		0.073	0.025	mg/Kg	☼	07/15/17 04:42	07/17/17 15:56	10
Chrysene	**1.7**		0.073	0.028	mg/Kg	☼	07/15/17 04:42	07/17/17 15:56	10
Dibenz(a,h)anthracene	**0.41**		0.073	0.030	mg/Kg	☼	07/15/17 04:42	07/17/17 15:56	10
Dibenzofuran	**0.10**	**J**	0.36	0.029	mg/Kg	☼	07/15/17 04:42	07/17/17 15:56	10
2,4-Dinitrotoluene	ND		0.36	0.048	mg/Kg	☼	07/15/17 04:42	07/17/17 15:56	10
1,4-Dioxane	ND		0.73	0.055	mg/Kg	☼	07/15/17 04:42	07/17/17 15:56	10
Fluoranthene	**3.5**		0.073	0.029	mg/Kg	☼	07/15/17 04:42	07/17/17 15:56	10
Fluorene	**0.078**		0.073	0.026	mg/Kg	☼	07/15/17 04:42	07/17/17 15:56	10
Hexachlorobenzene	ND		0.073	0.029	mg/Kg	☼	07/15/17 04:42	07/17/17 15:56	10
Hexachlorobutadiene	ND		0.073	0.023	mg/Kg	☼	07/15/17 04:42	07/17/17 15:56	10
Hexachloroethane	ND		0.36	0.026	mg/Kg	☼	07/15/17 04:42	07/17/17 15:56	10
Indeno[1,2,3-cd]pyrene	**1.7**		0.073	0.028	mg/Kg	☼	07/15/17 04:42	07/17/17 15:56	10
2-Methylphenol	ND		0.36	0.032	mg/Kg	☼	07/15/17 04:42	07/17/17 15:56	10
Methylphenol, 3 & 4	ND		0.36	0.032	mg/Kg	☼	07/15/17 04:42	07/17/17 15:56	10

Client Sample ID: W7, S1, C 71317
Lab Sample ID: 180-68219-30
Date Collected: 07/13/17 12:25
Matrix: Solid
Date Received: 07/14/17 13:15
Percent Solids: 90.2

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**0.32**		0.073	0.026	mg/Kg	☼	07/15/17 04:42	07/17/17 15:56	10
Nitrobenzene	ND		0.73	0.028	mg/Kg	☼	07/15/17 04:42	07/17/17 15:56	10
Pentachlorophenol	ND		1.8	0.69	mg/Kg	☼	07/15/17 04:42	07/17/17 15:56	10
Phenanthrene	**2.0**		0.073	0.030	mg/Kg	☼	07/15/17 04:42	07/17/17 15:56	10
Phenol	ND		0.36	0.049	mg/Kg	☼	07/15/17 04:42	07/17/17 15:56	10
Pyrene	**3.3**		0.073	0.032	mg/Kg	☼	07/15/17 04:42	07/17/17 15:56	10
Pyridine	ND		0.36	0.035	mg/Kg	☼	07/15/17 04:42	07/17/17 15:56	10
2,4,5-Trichlorophenol	ND		0.36	0.034	mg/Kg	☼	07/15/17 04:42	07/17/17 15:56	10
2,4,6-Trichlorophenol	ND		0.36	0.032	mg/Kg	☼	07/15/17 04:42	07/17/17 15:56	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*50*		*42 - 100*	*07/15/17 04:42*	*07/17/17 15:56*	*10*
2-Fluorophenol (Surr)	*49*		*21 - 107*	*07/15/17 04:42*	*07/17/17 15:56*	*10*
Nitrobenzene-d5 (Surr)	*60*		*35 - 109*	*07/15/17 04:42*	*07/17/17 15:56*	*10*
Phenol-d5 (Surr)	*48*		*29 - 105*	*07/15/17 04:42*	*07/17/17 15:56*	*10*
Terphenyl-d14 (Surr)	*58*		*36 - 113*	*07/15/17 04:42*	*07/17/17 15:56*	*10*
2,4,6-Tribromophenol (Surr)	*43*		*20 - 134*	*07/15/17 04:42*	*07/17/17 15:56*	*10*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.018	0.0097	mg/Kg	☼	07/16/17 13:30	07/17/17 14:36	1
PCB-1221	ND		0.018	0.0094	mg/Kg	☼	07/16/17 13:30	07/17/17 14:36	1
PCB-1232	ND		0.018	0.0072	mg/Kg	☼	07/16/17 13:30	07/17/17 14:36	1
PCB-1242	ND		0.018	0.014	mg/Kg	☼	07/16/17 13:30	07/17/17 14:36	1
PCB-1248	**1.1**		0.018	0.0087	mg/Kg	☼	07/16/17 13:30	07/17/17 14:36	1
PCB-1254	**0.42**		0.018	0.0080	mg/Kg	☼	07/16/17 13:30	07/17/17 14:36	1
PCB-1260	**0.17**		0.018	0.012	mg/Kg	☼	07/16/17 13:30	07/17/17 14:36	1
PCB-1262	ND		0.018	0.013	mg/Kg	☼	07/16/17 13:30	07/17/17 14:36	1
PCB-1268	ND		0.018	0.0056	mg/Kg	☼	07/16/17 13:30	07/17/17 14:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*87*		*23 - 150*	*07/16/17 13:30*	*07/17/17 14:36*	*1*
DCB Decachlorobiphenyl (Surr)	*96*		*23 - 150*	*07/16/17 13:30*	*07/17/17 14:36*	*1*
Tetrachloro-m-xylene (Surr)	*82*		*27 - 138*	*07/16/17 13:30*	*07/17/17 14:36*	*1*
Tetrachloro-m-xylene (Surr)	*78*		*27 - 138*	*07/16/17 13:30*	*07/17/17 14:36*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**6.9**		1.2	0.51	mg/Kg	☼	07/18/17 10:32	07/20/17 13:56	1
Barium	**61**		23	6.2	mg/Kg	☼	07/18/17 10:32	07/20/17 13:56	1
Beryllium	**0.32**	**J**	0.46	0.12	mg/Kg	☼	07/18/17 10:32	07/20/17 13:56	1
Cadmium	**0.17**	**J**	0.58	0.13	mg/Kg	☼	07/18/17 10:32	07/20/17 13:56	1
Chromium	**9.1**		0.58	0.15	mg/Kg	☼	07/18/17 10:32	07/20/17 13:56	1
Copper	**25**		2.9	0.89	mg/Kg	☼	07/18/17 10:32	07/20/17 13:56	1
Lead	**33**		1.2	0.38	mg/Kg	☼	07/18/17 10:32	07/20/17 13:56	1
Manganese	**390**		1.7	0.47	mg/Kg	☼	07/18/17 10:32	07/20/17 13:56	1
Nickel	**18**		4.6	1.0	mg/Kg	☼	07/18/17 10:32	07/20/17 13:56	1
Selenium	**0.56**	**J**	1.2	0.46	mg/Kg	☼	07/18/17 10:32	07/20/17 13:56	1
Silver	ND		0.58	0.19	mg/Kg	☼	07/18/17 10:32	07/20/17 13:56	1
Zinc	**74**		2.3	1.2	mg/Kg	☼	07/18/17 10:32	07/20/17 13:56	1

Client Sample ID: W7, S1, C 71317

Lab Sample ID: 180-68219-30
Date Collected: 07/13/17 12:25
Matrix: Solid
Date Received: 07/14/17 13:15
Percent Solids: 90.2

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.057		0.038	0.0085	mg/Kg	☼	07/18/17 14:51	07/19/17 13:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.8		0.1	0.1	%			07/17/17 12:16	1
Percent Solids	90.2		0.1	0.1	%			07/17/17 12:16	1
Cyanide, Total	0.42	J	0.49	0.15	mg/Kg	☼	07/18/17 10:56	07/18/17 15:03	1

Client Sample ID: W8, S1, A 71317

Lab Sample ID: 180-68219-31
Date Collected: 07/13/17 12:45
Matrix: Solid
Date Received: 07/14/17 13:15
Percent Solids: 88.6

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.016	0.0025	mg/Kg	☼	07/19/17 05:28	07/19/17 14:17	1
Benzene	ND		0.0039	0.0015	mg/Kg	☼	07/19/17 05:28	07/19/17 14:17	1
2-Butanone (MEK)	ND		0.0039	0.0023	mg/Kg	☼	07/19/17 05:28	07/19/17 14:17	1
Carbon tetrachloride	ND		0.0039	0.0026	mg/Kg	☼	07/19/17 05:28	07/19/17 14:17	1
Chlorobenzene	ND		0.0039	0.0012	mg/Kg	☼	07/19/17 05:28	07/19/17 14:17	1
Chloroform	ND		0.0039	0.0016	mg/Kg	☼	07/19/17 05:28	07/19/17 14:17	1
cis-1,2-Dichloroethene	ND		0.0039	0.0012	mg/Kg	☼	07/19/17 05:28	07/19/17 14:17	1
1,2-Dichlorobenzene	ND		0.0039	0.0031	mg/Kg	☼	07/19/17 05:28	07/19/17 14:17	1
1,3-Dichlorobenzene	ND		0.0039	0.0012	mg/Kg	☼	07/19/17 05:28	07/19/17 14:17	1
1,4-Dichlorobenzene	ND		0.0039	0.00079	mg/Kg	☼	07/19/17 05:28	07/19/17 14:17	1
1,1-Dichloroethane	ND		0.0039	0.0014	mg/Kg	☼	07/19/17 05:28	07/19/17 14:17	1
1,2-Dichloroethane	ND		0.0039	0.0011	mg/Kg	☼	07/19/17 05:28	07/19/17 14:17	1
1,1-Dichloroethene	ND		0.0039	0.0022	mg/Kg	☼	07/19/17 05:28	07/19/17 14:17	1
Ethylbenzene	ND		0.0039	0.0017	mg/Kg	☼	07/19/17 05:28	07/19/17 14:17	1
Methylene Chloride	ND		0.0039	0.0018	mg/Kg	☼	07/19/17 05:28	07/19/17 14:17	1
Methyl tert-butyl ether	ND		0.0039	0.0029	mg/Kg	☼	07/19/17 05:28	07/19/17 14:17	1
n-Butylbenzene	ND		0.0039	0.0029	mg/Kg	☼	07/19/17 05:28	07/19/17 14:17	1
N-Propylbenzene	ND		0.0039	0.0016	mg/Kg	☼	07/19/17 05:28	07/19/17 14:17	1
sec-Butylbenzene	ND		0.0039	0.0019	mg/Kg	☼	07/19/17 05:28	07/19/17 14:17	1
tert-Butylbenzene	ND		0.0039	0.0014	mg/Kg	☼	07/19/17 05:28	07/19/17 14:17	1
Tetrachloroethene	ND		0.0039	0.0016	mg/Kg	☼	07/19/17 05:28	07/19/17 14:17	1
Toluene	ND		0.0039	0.0013	mg/Kg	☼	07/19/17 05:28	07/19/17 14:17	1
trans-1,2-Dichloroethene	ND		0.0039	0.0020	mg/Kg	☼	07/19/17 05:28	07/19/17 14:17	1
1,1,1-Trichloroethane	ND		0.0039	0.0020	mg/Kg	☼	07/19/17 05:28	07/19/17 14:17	1
Trichloroethene	ND		0.0039	0.0012	mg/Kg	☼	07/19/17 05:28	07/19/17 14:17	1
1,2,4-Trimethylbenzene	ND		0.0039	0.0010	mg/Kg	☼	07/19/17 05:28	07/19/17 14:17	1
1,3,5-Trimethylbenzene	ND		0.0039	0.0013	mg/Kg	☼	07/19/17 05:28	07/19/17 14:17	1
Vinyl chloride	ND		0.0039	0.0029	mg/Kg	☼	07/19/17 05:28	07/19/17 14:17	1
Xylenes, Total	ND		0.0078	0.0033	mg/Kg	☼	07/19/17 05:28	07/19/17 14:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*83*		*63 - 120*	*07/19/17 05:28*	*07/19/17 14:17*	*1*
Dibromofluoromethane (Surr)	*88*		*68 - 121*	*07/19/17 05:28*	*07/19/17 14:17*	*1*
1,2-Dichloroethane-d4 (Surr)	*80*		*52 - 124*	*07/19/17 05:28*	*07/19/17 14:17*	*1*
Toluene-d8 (Surr)	*115*		*72 - 127*	*07/19/17 05:28*	*07/19/17 14:17*	*1*

Client Sample ID: W8, S1, A 71317 — Lab Sample ID: 180-68219-31

Date Collected: 07/13/17 12:45 — **Matrix: Solid**
Date Received: 07/14/17 13:15 — **Percent Solids: 88.6**

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	11.4		0.1	0.1	%			07/17/17 15:21	1
Percent Solids	88.6		0.1	0.1	%			07/17/17 15:21	1

Client Sample ID: W8, S1, B 71317 — Lab Sample ID: 180-68219-32

Date Collected: 07/13/17 12:50 — **Matrix: Solid**
Date Received: 07/14/17 13:15 — **Percent Solids: 91.5**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.016	0.0025	mg/Kg	☼	07/19/17 05:28	07/19/17 13:54	1
Benzene	ND		0.0040	0.0016	mg/Kg	☼	07/19/17 05:28	07/19/17 13:54	1
2-Butanone (MEK)	ND		0.0040	0.0023	mg/Kg	☼	07/19/17 05:28	07/19/17 13:54	1
Carbon tetrachloride	ND		0.0040	0.0027	mg/Kg	☼	07/19/17 05:28	07/19/17 13:54	1
Chlorobenzene	ND		0.0040	0.0013	mg/Kg	☼	07/19/17 05:28	07/19/17 13:54	1
Chloroform	ND		0.0040	0.0017	mg/Kg	☼	07/19/17 05:28	07/19/17 13:54	1
cis-1,2-Dichloroethene	ND		0.0040	0.0013	mg/Kg	☼	07/19/17 05:28	07/19/17 13:54	1
1,2-Dichlorobenzene	ND		0.0040	0.0033	mg/Kg	☼	07/19/17 05:28	07/19/17 13:54	1
1,3-Dichlorobenzene	ND		0.0040	0.0013	mg/Kg	☼	07/19/17 05:28	07/19/17 13:54	1
1,4-Dichlorobenzene	ND		0.0040	0.00082	mg/Kg	☼	07/19/17 05:28	07/19/17 13:54	1
1,1-Dichloroethane	ND		0.0040	0.0015	mg/Kg	☼	07/19/17 05:28	07/19/17 13:54	1
1,2-Dichloroethane	ND		0.0040	0.0012	mg/Kg	☼	07/19/17 05:28	07/19/17 13:54	1
1,1-Dichloroethene	ND		0.0040	0.0023	mg/Kg	☼	07/19/17 05:28	07/19/17 13:54	1
Ethylbenzene	ND		0.0040	0.0017	mg/Kg	☼	07/19/17 05:28	07/19/17 13:54	1
Methylene Chloride	ND		0.0040	0.0019	mg/Kg	☼	07/19/17 05:28	07/19/17 13:54	1
Methyl tert-butyl ether	ND		0.0040	0.0030	mg/Kg	☼	07/19/17 05:28	07/19/17 13:54	1
n-Butylbenzene	ND		0.0040	0.0031	mg/Kg	☼	07/19/17 05:28	07/19/17 13:54	1
N-Propylbenzene	ND		0.0040	0.0017	mg/Kg	☼	07/19/17 05:28	07/19/17 13:54	1
sec-Butylbenzene	ND		0.0040	0.0020	mg/Kg	☼	07/19/17 05:28	07/19/17 13:54	1
tert-Butylbenzene	ND		0.0040	0.0015	mg/Kg	☼	07/19/17 05:28	07/19/17 13:54	1
Tetrachloroethene	ND		0.0040	0.0016	mg/Kg	☼	07/19/17 05:28	07/19/17 13:54	1
Toluene	ND		0.0040	0.0014	mg/Kg	☼	07/19/17 05:28	07/19/17 13:54	1
trans-1,2-Dichloroethene	ND		0.0040	0.0021	mg/Kg	☼	07/19/17 05:28	07/19/17 13:54	1
1,1,1-Trichloroethane	ND		0.0040	0.0020	mg/Kg	☼	07/19/17 05:28	07/19/17 13:54	1
Trichloroethene	ND		0.0040	0.0012	mg/Kg	☼	07/19/17 05:28	07/19/17 13:54	1
1,2,4-Trimethylbenzene	ND		0.0040	0.0011	mg/Kg	☼	07/19/17 05:28	07/19/17 13:54	1
1,3,5-Trimethylbenzene	ND		0.0040	0.0014	mg/Kg	☼	07/19/17 05:28	07/19/17 13:54	1
Vinyl chloride	ND		0.0040	0.0030	mg/Kg	☼	07/19/17 05:28	07/19/17 13:54	1
Xylenes, Total	ND		0.0081	0.0035	mg/Kg	☼	07/19/17 05:28	07/19/17 13:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*63 - 120*	*07/19/17 05:28*	*07/19/17 13:54*	*1*
Dibromofluoromethane (Surr)	*95*		*68 - 121*	*07/19/17 05:28*	*07/19/17 13:54*	*1*
1,2-Dichloroethane-d4 (Surr)	*89*		*52 - 124*	*07/19/17 05:28*	*07/19/17 13:54*	*1*
Toluene-d8 (Surr)	*122*		*72 - 127*	*07/19/17 05:28*	*07/19/17 13:54*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	8.5		0.1	0.1	%			07/17/17 15:21	1
Percent Solids	91.5		0.1	0.1	%			07/17/17 15:21	1

Client Sample ID: W8, S1, C 71317
Date Collected: 07/13/17 12:55
Date Received: 07/14/17 13:15

Lab Sample ID: 180-68219-33
Matrix: Solid
Percent Solids: 90.6

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.036	0.012	mg/Kg	☼	07/15/17 04:42	07/17/17 16:23	5
Acenaphthylene	**0.14**		0.036	0.012	mg/Kg	☼	07/15/17 04:42	07/17/17 16:23	5
Anthracene	**0.15**		0.036	0.013	mg/Kg	☼	07/15/17 04:42	07/17/17 16:23	5
Benzo[a]anthracene	**0.49**		0.036	0.014	mg/Kg	☼	07/15/17 04:42	07/17/17 16:23	5
Benzo[a]pyrene	**0.54**		0.036	0.015	mg/Kg	☼	07/15/17 04:42	07/17/17 16:23	5
Benzo[b]fluoranthene	**0.73**		0.036	0.016	mg/Kg	☼	07/15/17 04:42	07/17/17 16:23	5
Benzo[g,h,i]perylene	**0.72**		0.036	0.016	mg/Kg	☼	07/15/17 04:42	07/17/17 16:23	5
Benzo[k]fluoranthene	**0.20**		0.036	0.012	mg/Kg	☼	07/15/17 04:42	07/17/17 16:23	5
Chrysene	**0.48**		0.036	0.014	mg/Kg	☼	07/15/17 04:42	07/17/17 16:23	5
Dibenz(a,h)anthracene	**0.13**		0.036	0.015	mg/Kg	☼	07/15/17 04:42	07/17/17 16:23	5
Dibenzofuran	**0.055**	**J**	0.18	0.014	mg/Kg	☼	07/15/17 04:42	07/17/17 16:23	5
2,4-Dinitrotoluene	ND		0.18	0.024	mg/Kg	☼	07/15/17 04:42	07/17/17 16:23	5
1,4-Dioxane	ND		0.36	0.027	mg/Kg	☼	07/15/17 04:42	07/17/17 16:23	5
Fluoranthene	**0.74**		0.036	0.014	mg/Kg	☼	07/15/17 04:42	07/17/17 16:23	5
Fluorene	**0.026**	**J**	0.036	0.013	mg/Kg	☼	07/15/17 04:42	07/17/17 16:23	5
Hexachlorobenzene	ND		0.036	0.014	mg/Kg	☼	07/15/17 04:42	07/17/17 16:23	5
Hexachlorobutadiene	ND		0.036	0.011	mg/Kg	☼	07/15/17 04:42	07/17/17 16:23	5
Hexachloroethane	ND		0.18	0.013	mg/Kg	☼	07/15/17 04:42	07/17/17 16:23	5
Indeno[1,2,3-cd]pyrene	**0.58**		0.036	0.014	mg/Kg	☼	07/15/17 04:42	07/17/17 16:23	5
2-Methylphenol	ND		0.18	0.016	mg/Kg	☼	07/15/17 04:42	07/17/17 16:23	5
Methylphenol, 3 & 4	ND		0.18	0.016	mg/Kg	☼	07/15/17 04:42	07/17/17 16:23	5
Naphthalene	**0.17**		0.036	0.013	mg/Kg	☼	07/15/17 04:42	07/17/17 16:23	5
Nitrobenzene	ND		0.36	0.014	mg/Kg	☼	07/15/17 04:42	07/17/17 16:23	5
Pentachlorophenol	ND		0.91	0.34	mg/Kg	☼	07/15/17 04:42	07/17/17 16:23	5
Phenanthrene	**0.34**		0.036	0.015	mg/Kg	☼	07/15/17 04:42	07/17/17 16:23	5
Phenol	ND		0.18	0.024	mg/Kg	☼	07/15/17 04:42	07/17/17 16:23	5
Pyrene	**0.69**		0.036	0.016	mg/Kg	☼	07/15/17 04:42	07/17/17 16:23	5
Pyridine	ND		0.18	0.017	mg/Kg	☼	07/15/17 04:42	07/17/17 16:23	5
2,4,5-Trichlorophenol	ND		0.18	0.017	mg/Kg	☼	07/15/17 04:42	07/17/17 16:23	5
2,4,6-Trichlorophenol	ND		0.18	0.016	mg/Kg	☼	07/15/17 04:42	07/17/17 16:23	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*52*		*42 - 100*	*07/15/17 04:42*	*07/17/17 16:23*	*5*
2-Fluorophenol (Surr)	*46*		*21 - 107*	*07/15/17 04:42*	*07/17/17 16:23*	*5*
Nitrobenzene-d5 (Surr)	*50*		*35 - 109*	*07/15/17 04:42*	*07/17/17 16:23*	*5*
Phenol-d5 (Surr)	*45*		*29 - 105*	*07/15/17 04:42*	*07/17/17 16:23*	*5*
Terphenyl-d14 (Surr)	*47*		*36 - 113*	*07/15/17 04:42*	*07/17/17 16:23*	*5*
2,4,6-Tribromophenol (Surr)	*51*		*20 - 134*	*07/15/17 04:42*	*07/17/17 16:23*	*5*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.018	0.0096	mg/Kg	☼	07/16/17 13:30	07/17/17 14:57	1
PCB-1221	ND		0.018	0.0093	mg/Kg	☼	07/16/17 13:30	07/17/17 14:57	1
PCB-1232	ND		0.018	0.0071	mg/Kg	☼	07/16/17 13:30	07/17/17 14:57	1
PCB-1242	ND		0.018	0.014	mg/Kg	☼	07/16/17 13:30	07/17/17 14:57	1
PCB-1248	**0.63**		0.018	0.0086	mg/Kg	☼	07/16/17 13:30	07/17/17 14:57	1
PCB-1254	**0.32**		0.018	0.0079	mg/Kg	☼	07/16/17 13:30	07/17/17 14:57	1
PCB-1260	**0.16**		0.018	0.012	mg/Kg	☼	07/16/17 13:30	07/17/17 14:57	1
PCB-1262	ND		0.018	0.013	mg/Kg	☼	07/16/17 13:30	07/17/17 14:57	1
PCB-1268	ND		0.018	0.0055	mg/Kg	☼	07/16/17 13:30	07/17/17 14:57	1

Client Sample ID: W8, S1, C 71317

Lab Sample ID: 180-68219-33

Date Collected: 07/13/17 12:55

Matrix: Solid

Date Received: 07/14/17 13:15

Percent Solids: 90.6

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*83*		*23 - 150*	*07/16/17 13:30*	*07/17/17 14:57*	*1*
DCB Decachlorobiphenyl (Surr)	*96*		*23 - 150*	*07/16/17 13:30*	*07/17/17 14:57*	*1*
Tetrachloro-m-xylene (Surr)	*82*		*27 - 138*	*07/16/17 13:30*	*07/17/17 14:57*	*1*
Tetrachloro-m-xylene (Surr)	*81*		*27 - 138*	*07/16/17 13:30*	*07/17/17 14:57*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**7.3**		1.1	0.47	mg/Kg	☼	07/18/17 10:32	07/20/17 14:01	1
Barium	**98**		21	5.7	mg/Kg	☼	07/18/17 10:32	07/20/17 14:01	1
Beryllium	**0.36**	**J**	0.42	0.11	mg/Kg	☼	07/18/17 10:32	07/20/17 14:01	1
Cadmium	**0.27**	**J**	0.53	0.12	mg/Kg	☼	07/18/17 10:32	07/20/17 14:01	1
Chromium	**13**		0.53	0.14	mg/Kg	☼	07/18/17 10:32	07/20/17 14:01	1
Copper	**67**		2.7	0.82	mg/Kg	☼	07/18/17 10:32	07/20/17 14:01	1
Lead	**75**		1.1	0.35	mg/Kg	☼	07/18/17 10:32	07/20/17 14:01	1
Manganese	**440**		1.6	0.43	mg/Kg	☼	07/18/17 10:32	07/20/17 14:01	1
Nickel	**18**		4.2	0.96	mg/Kg	☼	07/18/17 10:32	07/20/17 14:01	1
Selenium	ND		1.1	0.42	mg/Kg	☼	07/18/17 10:32	07/20/17 14:01	1
Silver	ND		0.53	0.18	mg/Kg	☼	07/18/17 10:32	07/20/17 14:01	1
Zinc	**120**		2.1	1.1	mg/Kg	☼	07/18/17 10:32	07/20/17 14:01	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.86**		0.040	0.0089	mg/Kg	☼	07/18/17 14:51	07/19/17 13:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.4**		0.1	0.1	%			07/17/17 12:16	1
Percent Solids	**90.6**		0.1	0.1	%			07/17/17 12:16	1
Cyanide, Total	**0.22**	**J**	0.48	0.15	mg/Kg	☼	07/18/17 10:56	07/18/17 15:08	1

Client Sample ID: W8, S2, A 71317

Lab Sample ID: 180-68219-34

Date Collected: 07/13/17 13:15

Matrix: Solid

Date Received: 07/14/17 13:15

Percent Solids: 90.2

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.015	0.0024	mg/Kg	☼	07/20/17 05:54	07/20/17 09:38	1
Benzene	ND		0.0038	0.0015	mg/Kg	☼	07/20/17 05:54	07/20/17 09:38	1
2-Butanone (MEK)	ND		0.0038	0.0022	mg/Kg	☼	07/20/17 05:54	07/20/17 09:38	1
Carbon tetrachloride	ND		0.0038	0.0025	mg/Kg	☼	07/20/17 05:54	07/20/17 09:38	1
Chlorobenzene	ND		0.0038	0.0012	mg/Kg	☼	07/20/17 05:54	07/20/17 09:38	1
Chloroform	ND		0.0038	0.0016	mg/Kg	☼	07/20/17 05:54	07/20/17 09:38	1
cis-1,2-Dichloroethene	ND		0.0038	0.0012	mg/Kg	☼	07/20/17 05:54	07/20/17 09:38	1
1,2-Dichlorobenzene	ND		0.0038	0.0030	mg/Kg	☼	07/20/17 05:54	07/20/17 09:38	1
1,3-Dichlorobenzene	ND		0.0038	0.0012	mg/Kg	☼	07/20/17 05:54	07/20/17 09:38	1
1,4-Dichlorobenzene	ND		0.0038	0.00077	mg/Kg	☼	07/20/17 05:54	07/20/17 09:38	1
1,1-Dichloroethane	ND		0.0038	0.0014	mg/Kg	☼	07/20/17 05:54	07/20/17 09:38	1
1,2-Dichloroethane	ND		0.0038	0.0011	mg/Kg	☼	07/20/17 05:54	07/20/17 09:38	1
1,1-Dichloroethene	ND		0.0038	0.0022	mg/Kg	☼	07/20/17 05:54	07/20/17 09:38	1
Ethylbenzene	ND		0.0038	0.0016	mg/Kg	☼	07/20/17 05:54	07/20/17 09:38	1
Methylene Chloride	ND		0.0038	0.0018	mg/Kg	☼	07/20/17 05:54	07/20/17 09:38	1

Client Sample ID: W8, S2, A 71317 — Lab Sample ID: 180-68219-34

Date Collected: 07/13/17 13:15 — **Matrix: Solid**
Date Received: 07/14/17 13:15 — **Percent Solids: 90.2**

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.0038	0.0028	mg/Kg	☼	07/20/17 05:54	07/20/17 09:38	1
n-Butylbenzene	ND		0.0038	0.0029	mg/Kg	☼	07/20/17 05:54	07/20/17 09:38	1
N-Propylbenzene	ND		0.0038	0.0016	mg/Kg	☼	07/20/17 05:54	07/20/17 09:38	1
sec-Butylbenzene	ND		0.0038	0.0018	mg/Kg	☼	07/20/17 05:54	07/20/17 09:38	1
tert-Butylbenzene	ND		0.0038	0.0014	mg/Kg	☼	07/20/17 05:54	07/20/17 09:38	1
Tetrachloroethene	ND		0.0038	0.0015	mg/Kg	☼	07/20/17 05:54	07/20/17 09:38	1
Toluene	ND		0.0038	0.0013	mg/Kg	☼	07/20/17 05:54	07/20/17 09:38	1
trans-1,2-Dichloroethene	ND		0.0038	0.0019	mg/Kg	☼	07/20/17 05:54	07/20/17 09:38	1
1,1,1-Trichloroethane	ND		0.0038	0.0019	mg/Kg	☼	07/20/17 05:54	07/20/17 09:38	1
Trichloroethene	ND		0.0038	0.0011	mg/Kg	☼	07/20/17 05:54	07/20/17 09:38	1
1,2,4-Trimethylbenzene	ND		0.0038	0.0010	mg/Kg	☼	07/20/17 05:54	07/20/17 09:38	1
1,3,5-Trimethylbenzene	ND		0.0038	0.0013	mg/Kg	☼	07/20/17 05:54	07/20/17 09:38	1
Vinyl chloride	ND		0.0038	0.0028	mg/Kg	☼	07/20/17 05:54	07/20/17 09:38	1
Xylenes, Total	ND		0.0076	0.0033	mg/Kg	☼	07/20/17 05:54	07/20/17 09:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*63 - 120*	*07/20/17 05:54*	*07/20/17 09:38*	*1*
Dibromofluoromethane (Surr)	*92*		*68 - 121*	*07/20/17 05:54*	*07/20/17 09:38*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*52 - 124*	*07/20/17 05:54*	*07/20/17 09:38*	*1*
Toluene-d8 (Surr)	*106*		*72 - 127*	*07/20/17 05:54*	*07/20/17 09:38*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.8**		0.1	0.1	%			07/17/17 15:21	1
Percent Solids	**90.2**		0.1	0.1	%			07/17/17 15:21	1

Client Sample ID: W8, S2, B 71317 — Lab Sample ID: 180-68219-35

Date Collected: 07/13/17 13:20 — **Matrix: Solid**
Date Received: 07/14/17 13:15 — **Percent Solids: 90.0**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.016	0.0025	mg/Kg	☼	07/19/17 05:28	07/19/17 13:31	1
Benzene	ND		0.0040	0.0016	mg/Kg	☼	07/19/17 05:28	07/19/17 13:31	1
2-Butanone (MEK)	ND		0.0040	0.0023	mg/Kg	☼	07/19/17 05:28	07/19/17 13:31	1
Carbon tetrachloride	ND		0.0040	0.0027	mg/Kg	☼	07/19/17 05:28	07/19/17 13:31	1
Chlorobenzene	ND		0.0040	0.0013	mg/Kg	☼	07/19/17 05:28	07/19/17 13:31	1
Chloroform	ND		0.0040	0.0017	mg/Kg	☼	07/19/17 05:28	07/19/17 13:31	1
cis-1,2-Dichloroethene	ND		0.0040	0.0013	mg/Kg	☼	07/19/17 05:28	07/19/17 13:31	1
1,2-Dichlorobenzene	ND		0.0040	0.0032	mg/Kg	☼	07/19/17 05:28	07/19/17 13:31	1
1,3-Dichlorobenzene	ND		0.0040	0.0013	mg/Kg	☼	07/19/17 05:28	07/19/17 13:31	1
1,4-Dichlorobenzene	ND		0.0040	0.00082	mg/Kg	☼	07/19/17 05:28	07/19/17 13:31	1
1,1-Dichloroethane	ND		0.0040	0.0015	mg/Kg	☼	07/19/17 05:28	07/19/17 13:31	1
1,2-Dichloroethane	ND		0.0040	0.0012	mg/Kg	☼	07/19/17 05:28	07/19/17 13:31	1
1,1-Dichloroethene	ND		0.0040	0.0023	mg/Kg	☼	07/19/17 05:28	07/19/17 13:31	1
Ethylbenzene	ND		0.0040	0.0017	mg/Kg	☼	07/19/17 05:28	07/19/17 13:31	1
Methylene Chloride	ND		0.0040	0.0019	mg/Kg	☼	07/19/17 05:28	07/19/17 13:31	1
Methyl tert-butyl ether	ND		0.0040	0.0030	mg/Kg	☼	07/19/17 05:28	07/19/17 13:31	1
n-Butylbenzene	ND		0.0040	0.0031	mg/Kg	☼	07/19/17 05:28	07/19/17 13:31	1
N-Propylbenzene	ND		0.0040	0.0017	mg/Kg	☼	07/19/17 05:28	07/19/17 13:31	1

Client Sample ID: W8, S2, B 71317 — Lab Sample ID: 180-68219-35

Date Collected: 07/13/17 13:20 — **Matrix: Solid**
Date Received: 07/14/17 13:15 — **Percent Solids: 90.0**

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		0.0040	0.0020	mg/Kg	☼	07/19/17 05:28	07/19/17 13:31	1
tert-Butylbenzene	ND		0.0040	0.0015	mg/Kg	☼	07/19/17 05:28	07/19/17 13:31	1
Tetrachloroethene	ND		0.0040	0.0016	mg/Kg	☼	07/19/17 05:28	07/19/17 13:31	1
Toluene	ND		0.0040	0.0014	mg/Kg	☼	07/19/17 05:28	07/19/17 13:31	1
trans-1,2-Dichloroethene	ND		0.0040	0.0020	mg/Kg	☼	07/19/17 05:28	07/19/17 13:31	1
1,1,1-Trichloroethane	ND		0.0040	0.0020	mg/Kg	☼	07/19/17 05:28	07/19/17 13:31	1
Trichloroethene	ND		0.0040	0.0012	mg/Kg	☼	07/19/17 05:28	07/19/17 13:31	1
1,2,4-Trimethylbenzene	ND		0.0040	0.0011	mg/Kg	☼	07/19/17 05:28	07/19/17 13:31	1
1,3,5-Trimethylbenzene	ND		0.0040	0.0014	mg/Kg	☼	07/19/17 05:28	07/19/17 13:31	1
Vinyl chloride	ND		0.0040	0.0030	mg/Kg	☼	07/19/17 05:28	07/19/17 13:31	1
Xylenes, Total	ND		0.0081	0.0035	mg/Kg	☼	07/19/17 05:28	07/19/17 13:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*63 - 120*	*07/19/17 05:28*	*07/19/17 13:31*	*1*
Dibromofluoromethane (Surr)	*94*		*68 - 121*	*07/19/17 05:28*	*07/19/17 13:31*	*1*
1,2-Dichloroethane-d4 (Surr)	*87*		*52 - 124*	*07/19/17 05:28*	*07/19/17 13:31*	*1*
Toluene-d8 (Surr)	*115*		*72 - 127*	*07/19/17 05:28*	*07/19/17 13:31*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**10**		0.1	0.1	%			07/17/17 15:21	1
Percent Solids	**90.0**		0.1	0.1	%			07/17/17 15:21	1

Client Sample ID: W8, S2, C 71317 — Lab Sample ID: 180-68219-36

Date Collected: 07/13/17 13:25 — **Matrix: Solid**
Date Received: 07/14/17 13:15 — **Percent Solids: 90.0**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.037	0.012	mg/Kg	☼	07/15/17 04:42	07/17/17 16:51	5
Acenaphthylene	**0.13**		0.037	0.013	mg/Kg	☼	07/15/17 04:42	07/17/17 16:51	5
Anthracene	**0.20**		0.037	0.014	mg/Kg	☼	07/15/17 04:42	07/17/17 16:51	5
Benzo[a]anthracene	**0.69**		0.037	0.015	mg/Kg	☼	07/15/17 04:42	07/17/17 16:51	5
Benzo[a]pyrene	**0.70**		0.037	0.015	mg/Kg	☼	07/15/17 04:42	07/17/17 16:51	5
Benzo[b]fluoranthene	**0.76**		0.037	0.016	mg/Kg	☼	07/15/17 04:42	07/17/17 16:51	5
Benzo[g,h,i]perylene	**0.73**		0.037	0.016	mg/Kg	☼	07/15/17 04:42	07/17/17 16:51	5
Benzo[k]fluoranthene	**0.30**		0.037	0.013	mg/Kg	☼	07/15/17 04:42	07/17/17 16:51	5
Chrysene	**0.62**		0.037	0.014	mg/Kg	☼	07/15/17 04:42	07/17/17 16:51	5
Dibenz(a,h)anthracene	**0.15**		0.037	0.015	mg/Kg	☼	07/15/17 04:42	07/17/17 16:51	5
Dibenzofuran	**0.048**	**J**	0.18	0.015	mg/Kg	☼	07/15/17 04:42	07/17/17 16:51	5
2,4-Dinitrotoluene	ND		0.18	0.025	mg/Kg	☼	07/15/17 04:42	07/17/17 16:51	5
1,4-Dioxane	ND		0.37	0.028	mg/Kg	☼	07/15/17 04:42	07/17/17 16:51	5
Fluoranthene	**1.0**		0.037	0.015	mg/Kg	☼	07/15/17 04:42	07/17/17 16:51	5
Fluorene	**0.034**	**J**	0.037	0.013	mg/Kg	☼	07/15/17 04:42	07/17/17 16:51	5
Hexachlorobenzene	ND		0.037	0.015	mg/Kg	☼	07/15/17 04:42	07/17/17 16:51	5
Hexachlorobutadiene	ND		0.037	0.012	mg/Kg	☼	07/15/17 04:42	07/17/17 16:51	5
Hexachloroethane	ND		0.18	0.013	mg/Kg	☼	07/15/17 04:42	07/17/17 16:51	5
Indeno[1,2,3-cd]pyrene	**0.61**		0.037	0.014	mg/Kg	☼	07/15/17 04:42	07/17/17 16:51	5
2-Methylphenol	ND		0.18	0.016	mg/Kg	☼	07/15/17 04:42	07/17/17 16:51	5
Methylphenol, 3 & 4	ND		0.18	0.016	mg/Kg	☼	07/15/17 04:42	07/17/17 16:51	5

Client Sample ID: W8, S2, C 71317 **Lab Sample ID: 180-68219-36**
Date Collected: 07/13/17 13:25 **Matrix: Solid**
Date Received: 07/14/17 13:15 **Percent Solids: 90.0**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**0.13**		0.037	0.013	mg/Kg	☼	07/15/17 04:42	07/17/17 16:51	5
Nitrobenzene	ND		0.37	0.014	mg/Kg	☼	07/15/17 04:42	07/17/17 16:51	5
Pentachlorophenol	ND		0.94	0.35	mg/Kg	☼	07/15/17 04:42	07/17/17 16:51	5
Phenanthrene	**0.55**		0.037	0.015	mg/Kg	☼	07/15/17 04:42	07/17/17 16:51	5
Phenol	ND		0.18	0.025	mg/Kg	☼	07/15/17 04:42	07/17/17 16:51	5
Pyrene	**0.94**		0.037	0.016	mg/Kg	☼	07/15/17 04:42	07/17/17 16:51	5
Pyridine	ND		0.18	0.018	mg/Kg	☼	07/15/17 04:42	07/17/17 16:51	5
2,4,5-Trichlorophenol	ND		0.18	0.018	mg/Kg	☼	07/15/17 04:42	07/17/17 16:51	5
2,4,6-Trichlorophenol	ND		0.18	0.016	mg/Kg	☼	07/15/17 04:42	07/17/17 16:51	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*48*		*42 - 100*	*07/15/17 04:42*	*07/17/17 16:51*	*5*
2-Fluorophenol (Surr)	*42*		*21 - 107*	*07/15/17 04:42*	*07/17/17 16:51*	*5*
Nitrobenzene-d5 (Surr)	*47*		*35 - 109*	*07/15/17 04:42*	*07/17/17 16:51*	*5*
Phenol-d5 (Surr)	*44*		*29 - 105*	*07/15/17 04:42*	*07/17/17 16:51*	*5*
Terphenyl-d14 (Surr)	*47*		*36 - 113*	*07/15/17 04:42*	*07/17/17 16:51*	*5*
2,4,6-Tribromophenol (Surr)	*47*		*20 - 134*	*07/15/17 04:42*	*07/17/17 16:51*	*5*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.019	0.0098	mg/Kg	☼	07/16/17 13:30	07/17/17 15:17	1
PCB-1221	ND		0.019	0.0096	mg/Kg	☼	07/16/17 13:30	07/17/17 15:17	1
PCB-1232	ND		0.019	0.0073	mg/Kg	☼	07/16/17 13:30	07/17/17 15:17	1
PCB-1242	ND		0.019	0.015	mg/Kg	☼	07/16/17 13:30	07/17/17 15:17	1
PCB-1248	**0.48**		0.019	0.0088	mg/Kg	☼	07/16/17 13:30	07/17/17 15:17	1
PCB-1254	**0.29**		0.019	0.0081	mg/Kg	☼	07/16/17 13:30	07/17/17 15:17	1
PCB-1260	**0.11**		0.019	0.012	mg/Kg	☼	07/16/17 13:30	07/17/17 15:17	1
PCB-1262	ND		0.019	0.013	mg/Kg	☼	07/16/17 13:30	07/17/17 15:17	1
PCB-1268	ND		0.019	0.0056	mg/Kg	☼	07/16/17 13:30	07/17/17 15:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*81*		*23 - 150*	*07/16/17 13:30*	*07/17/17 15:17*	*1*
DCB Decachlorobiphenyl (Surr)	*94*		*23 - 150*	*07/16/17 13:30*	*07/17/17 15:17*	*1*
Tetrachloro-m-xylene (Surr)	*80*		*27 - 138*	*07/16/17 13:30*	*07/17/17 15:17*	*1*
Tetrachloro-m-xylene (Surr)	*73*		*27 - 138*	*07/16/17 13:30*	*07/17/17 15:17*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**6.6**		1.1	0.47	mg/Kg	☼	07/18/17 10:32	07/20/17 14:06	1
Barium	**67**		21	5.7	mg/Kg	☼	07/18/17 10:32	07/20/17 14:06	1
Beryllium	**0.26**	**J**	0.42	0.11	mg/Kg	☼	07/18/17 10:32	07/20/17 14:06	1
Cadmium	**0.17**	**J**	0.53	0.12	mg/Kg	☼	07/18/17 10:32	07/20/17 14:06	1
Chromium	**9.2**		0.53	0.14	mg/Kg	☼	07/18/17 10:32	07/20/17 14:06	1
Copper	**36**		2.6	0.81	mg/Kg	☼	07/18/17 10:32	07/20/17 14:06	1
Lead	**45**		1.1	0.35	mg/Kg	☼	07/18/17 10:32	07/20/17 14:06	1
Manganese	**370**		1.6	0.43	mg/Kg	☼	07/18/17 10:32	07/20/17 14:06	1
Nickel	**15**		4.2	0.95	mg/Kg	☼	07/18/17 10:32	07/20/17 14:06	1
Selenium	**0.67**	**J**	1.1	0.42	mg/Kg	☼	07/18/17 10:32	07/20/17 14:06	1
Silver	ND		0.53	0.18	mg/Kg	☼	07/18/17 10:32	07/20/17 14:06	1
Zinc	**75**		2.1	1.1	mg/Kg	☼	07/18/17 10:32	07/20/17 14:06	1

Client Sample ID: W8, S2, C 71317

Lab Sample ID: 180-68219-36
Date Collected: 07/13/17 13:25
Matrix: Solid
Date Received: 07/14/17 13:15
Percent Solids: 90.0

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.60		0.037	0.0082	mg/Kg	☼	07/18/17 14:51	07/19/17 13:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	10.0		0.1	0.1	%			07/17/17 12:16	1
Percent Solids	90.0		0.1	0.1	%			07/17/17 12:16	1
Cyanide, Total	0.28	J	0.54	0.17	mg/Kg	☼	07/18/17 10:56	07/18/17 15:10	1

Client Sample ID: W8, S3, A 71317

Lab Sample ID: 180-68219-37
Date Collected: 07/13/17 13:45
Matrix: Solid
Date Received: 07/14/17 13:15
Percent Solids: 90.6

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.017	0.0028	mg/Kg	☼	07/17/17 05:28	07/17/17 18:06	1
Benzene	ND		0.0044	0.0017	mg/Kg	☼	07/17/17 05:28	07/17/17 18:06	1
2-Butanone (MEK)	ND		0.0044	0.0025	mg/Kg	☼	07/17/17 05:28	07/17/17 18:06	1
Carbon tetrachloride	ND		0.0044	0.0029	mg/Kg	☼	07/17/17 05:28	07/17/17 18:06	1
Chlorobenzene	ND		0.0044	0.0014	mg/Kg	☼	07/17/17 05:28	07/17/17 18:06	1
Chloroform	ND		0.0044	0.0018	mg/Kg	☼	07/17/17 05:28	07/17/17 18:06	1
cis-1,2-Dichloroethene	ND		0.0044	0.0014	mg/Kg	☼	07/17/17 05:28	07/17/17 18:06	1
1,2-Dichlorobenzene	ND		0.0044	0.0035	mg/Kg	☼	07/17/17 05:28	07/17/17 18:06	1
1,3-Dichlorobenzene	ND		0.0044	0.0014	mg/Kg	☼	07/17/17 05:28	07/17/17 18:06	1
1,4-Dichlorobenzene	ND		0.0044	0.00089	mg/Kg	☼	07/17/17 05:28	07/17/17 18:06	1
1,1-Dichloroethane	ND		0.0044	0.0016	mg/Kg	☼	07/17/17 05:28	07/17/17 18:06	1
1,2-Dichloroethane	ND		0.0044	0.0013	mg/Kg	☼	07/17/17 05:28	07/17/17 18:06	1
1,1-Dichloroethene	ND		0.0044	0.0025	mg/Kg	☼	07/17/17 05:28	07/17/17 18:06	1
Ethylbenzene	ND		0.0044	0.0019	mg/Kg	☼	07/17/17 05:28	07/17/17 18:06	1
Methylene Chloride	ND		0.0044	0.0021	mg/Kg	☼	07/17/17 05:28	07/17/17 18:06	1
Methyl tert-butyl ether	ND		0.0044	0.0032	mg/Kg	☼	07/17/17 05:28	07/17/17 18:06	1
n-Butylbenzene	ND		0.0044	0.0033	mg/Kg	☼	07/17/17 05:28	07/17/17 18:06	1
N-Propylbenzene	ND		0.0044	0.0018	mg/Kg	☼	07/17/17 05:28	07/17/17 18:06	1
sec-Butylbenzene	ND		0.0044	0.0021	mg/Kg	☼	07/17/17 05:28	07/17/17 18:06	1
tert-Butylbenzene	ND		0.0044	0.0016	mg/Kg	☼	07/17/17 05:28	07/17/17 18:06	1
Tetrachloroethene	ND		0.0044	0.0017	mg/Kg	☼	07/17/17 05:28	07/17/17 18:06	1
Toluene	ND		0.0044	0.0015	mg/Kg	☼	07/17/17 05:28	07/17/17 18:06	1
trans-1,2-Dichloroethene	ND		0.0044	0.0022	mg/Kg	☼	07/17/17 05:28	07/17/17 18:06	1
1,1,1-Trichloroethane	ND		0.0044	0.0022	mg/Kg	☼	07/17/17 05:28	07/17/17 18:06	1
Trichloroethene	ND		0.0044	0.0013	mg/Kg	☼	07/17/17 05:28	07/17/17 18:06	1
1,2,4-Trimethylbenzene	ND		0.0044	0.0012	mg/Kg	☼	07/17/17 05:28	07/17/17 18:06	1
1,3,5-Trimethylbenzene	ND		0.0044	0.0015	mg/Kg	☼	07/17/17 05:28	07/17/17 18:06	1
Vinyl chloride	ND		0.0044	0.0032	mg/Kg	☼	07/17/17 05:28	07/17/17 18:06	1
Xylenes, Total	ND		0.0087	0.0038	mg/Kg	☼	07/17/17 05:28	07/17/17 18:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*63 - 120*	*07/17/17 05:28*	*07/17/17 18:06*	*1*
Dibromofluoromethane (Surr)	*90*		*68 - 121*	*07/17/17 05:28*	*07/17/17 18:06*	*1*
1,2-Dichloroethane-d4 (Surr)	*82*		*52 - 124*	*07/17/17 05:28*	*07/17/17 18:06*	*1*
Toluene-d8 (Surr)	*111*		*72 - 127*	*07/17/17 05:28*	*07/17/17 18:06*	*1*

Client Sample ID: W8, S3, A 71317 — Lab Sample ID: 180-68219-37

Date Collected: 07/13/17 13:45 — **Matrix: Solid**
Date Received: 07/14/17 13:15 — **Percent Solids: 90.6**

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.4**		0.1	0.1	%			07/17/17 15:21	1
Percent Solids	**90.6**		0.1	0.1	%			07/17/17 15:21	1

Client Sample ID: W8, S3, B 71317 — Lab Sample ID: 180-68219-38

Date Collected: 07/13/17 13:50 — **Matrix: Solid**
Date Received: 07/14/17 13:15 — **Percent Solids: 91.3**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.018	0.0028	mg/Kg	☼	07/17/17 05:28	07/17/17 11:15	1
Benzene	ND	F2	0.0045	0.0018	mg/Kg	☼	07/17/17 05:28	07/17/17 11:15	1
2-Butanone (MEK)	ND		0.0045	0.0026	mg/Kg	☼	07/17/17 05:28	07/17/17 11:15	1
Carbon tetrachloride	ND		0.0045	0.0030	mg/Kg	☼	07/17/17 05:28	07/17/17 11:15	1
Chlorobenzene	ND	F2	0.0045	0.0014	mg/Kg	☼	07/17/17 05:28	07/17/17 11:15	1
Chloroform	ND		0.0045	0.0019	mg/Kg	☼	07/17/17 05:28	07/17/17 11:15	1
cis-1,2-Dichloroethene	ND		0.0045	0.0014	mg/Kg	☼	07/17/17 05:28	07/17/17 11:15	1
1,2-Dichlorobenzene	ND		0.0045	0.0036	mg/Kg	☼	07/17/17 05:28	07/17/17 11:15	1
1,3-Dichlorobenzene	ND		0.0045	0.0014	mg/Kg	☼	07/17/17 05:28	07/17/17 11:15	1
1,4-Dichlorobenzene	ND	F2	0.0045	0.00092	mg/Kg	☼	07/17/17 05:28	07/17/17 11:15	1
1,1-Dichloroethane	ND		0.0045	0.0016	mg/Kg	☼	07/17/17 05:28	07/17/17 11:15	1
1,2-Dichloroethane	ND		0.0045	0.0013	mg/Kg	☼	07/17/17 05:28	07/17/17 11:15	1
1,1-Dichloroethene	ND		0.0045	0.0026	mg/Kg	☼	07/17/17 05:28	07/17/17 11:15	1
Ethylbenzene	ND	F2	0.0045	0.0019	mg/Kg	☼	07/17/17 05:28	07/17/17 11:15	1
Methylene Chloride	**0.0021**	**J**	0.0045	0.0021	mg/Kg	☼	07/17/17 05:28	07/17/17 11:15	1
Methyl tert-butyl ether	ND		0.0045	0.0033	mg/Kg	☼	07/17/17 05:28	07/17/17 11:15	1
n-Butylbenzene	ND		0.0045	0.0034	mg/Kg	☼	07/17/17 05:28	07/17/17 11:15	1
N-Propylbenzene	ND	F2	0.0045	0.0019	mg/Kg	☼	07/17/17 05:28	07/17/17 11:15	1
sec-Butylbenzene	ND		0.0045	0.0022	mg/Kg	☼	07/17/17 05:28	07/17/17 11:15	1
tert-Butylbenzene	ND		0.0045	0.0017	mg/Kg	☼	07/17/17 05:28	07/17/17 11:15	1
Tetrachloroethene	ND	F2	0.0045	0.0018	mg/Kg	☼	07/17/17 05:28	07/17/17 11:15	1
Toluene	ND	F2	0.0045	0.0015	mg/Kg	☼	07/17/17 05:28	07/17/17 11:15	1
trans-1,2-Dichloroethene	ND		0.0045	0.0023	mg/Kg	☼	07/17/17 05:28	07/17/17 11:15	1
1,1,1-Trichloroethane	ND		0.0045	0.0023	mg/Kg	☼	07/17/17 05:28	07/17/17 11:15	1
Trichloroethene	ND		0.0045	0.0014	mg/Kg	☼	07/17/17 05:28	07/17/17 11:15	1
1,2,4-Trimethylbenzene	ND	F2	0.0045	0.0012	mg/Kg	☼	07/17/17 05:28	07/17/17 11:15	1
1,3,5-Trimethylbenzene	ND		0.0045	0.0016	mg/Kg	☼	07/17/17 05:28	07/17/17 11:15	1
Vinyl chloride	ND		0.0045	0.0033	mg/Kg	☼	07/17/17 05:28	07/17/17 11:15	1
Xylenes, Total	ND	F2	0.0090	0.0039	mg/Kg	☼	07/17/17 05:28	07/17/17 11:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*63 - 120*	*07/17/17 05:28*	*07/17/17 11:15*	*1*
Dibromofluoromethane (Surr)	*91*		*68 - 121*	*07/17/17 05:28*	*07/17/17 11:15*	*1*
1,2-Dichloroethane-d4 (Surr)	*82*		*52 - 124*	*07/17/17 05:28*	*07/17/17 11:15*	*1*
Toluene-d8 (Surr)	*112*		*72 - 127*	*07/17/17 05:28*	*07/17/17 11:15*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**8.7**		0.1	0.1	%			07/17/17 15:21	1
Percent Solids	**91.3**		0.1	0.1	%			07/17/17 15:21	1

Client Sample ID: W8, S3, C 71317
Date Collected: 07/13/17 13:55
Date Received: 07/14/17 13:15

Lab Sample ID: 180-68219-39
Matrix: Solid
Percent Solids: 86.6

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.017**		0.015	0.0051	mg/Kg	☼	07/16/17 13:37	07/17/17 13:03	2
Acenaphthylene	**0.37**		0.015	0.0052	mg/Kg	☼	07/16/17 13:37	07/17/17 13:03	2
Anthracene	**0.67**		0.015	0.0056	mg/Kg	☼	07/16/17 13:37	07/17/17 13:03	2
Benzo[a]anthracene	**2.0**		0.015	0.0061	mg/Kg	☼	07/16/17 13:37	07/17/17 13:03	2
Benzo[a]pyrene	**1.8**		0.015	0.0063	mg/Kg	☼	07/16/17 13:37	07/17/17 13:03	2
Benzo[b]fluoranthene	**2.1**		0.015	0.0066	mg/Kg	☼	07/16/17 13:37	07/17/17 13:03	2
Benzo[g,h,i]perylene	**1.4**		0.015	0.0066	mg/Kg	☼	07/16/17 13:37	07/17/17 13:03	2
Benzo[k]fluoranthene	**0.85**		0.015	0.0053	mg/Kg	☼	07/16/17 13:37	07/17/17 13:03	2
Chrysene	**1.6**		0.015	0.0060	mg/Kg	☼	07/16/17 13:37	07/17/17 13:03	2
Dibenz(a,h)anthracene	**0.36**		0.015	0.0063	mg/Kg	☼	07/16/17 13:37	07/17/17 13:03	2
Dibenzofuran	**0.11**		0.076	0.0061	mg/Kg	☼	07/16/17 13:37	07/17/17 13:03	2
2,4-Dinitrotoluene	ND		0.076	0.010	mg/Kg	☼	07/16/17 13:37	07/17/17 13:03	2
1,4-Dioxane	ND		0.15	0.012	mg/Kg	☼	07/16/17 13:37	07/17/17 13:03	2
Fluoranthene	**3.8**	**E**	0.015	0.0060	mg/Kg	☼	07/16/17 13:37	07/17/17 13:03	2
Fluorene	**0.12**		0.015	0.0055	mg/Kg	☼	07/16/17 13:37	07/17/17 13:03	2
Hexachlorobenzene	ND		0.015	0.0062	mg/Kg	☼	07/16/17 13:37	07/17/17 13:03	2
Hexachlorobutadiene	ND		0.015	0.0048	mg/Kg	☼	07/16/17 13:37	07/17/17 13:03	2
Hexachloroethane	ND		0.076	0.0055	mg/Kg	☼	07/16/17 13:37	07/17/17 13:03	2
Indeno[1,2,3-cd]pyrene	**1.3**		0.015	0.0059	mg/Kg	☼	07/16/17 13:37	07/17/17 13:03	2
2-Methylphenol	**0.0096**	**J**	0.076	0.0068	mg/Kg	☼	07/16/17 13:37	07/17/17 13:03	2
Methylphenol, 3 & 4	**0.045**	**J**	0.076	0.0068	mg/Kg	☼	07/16/17 13:37	07/17/17 13:03	2
Naphthalene	**0.19**		0.015	0.0055	mg/Kg	☼	07/16/17 13:37	07/17/17 13:03	2
Nitrobenzene	ND		0.15	0.0058	mg/Kg	☼	07/16/17 13:37	07/17/17 13:03	2
Pentachlorophenol	ND		0.39	0.14	mg/Kg	☼	07/16/17 13:37	07/17/17 13:03	2
Phenanthrene	**2.5**		0.015	0.0064	mg/Kg	☼	07/16/17 13:37	07/17/17 13:03	2
Phenol	**0.033**	**J**	0.076	0.010	mg/Kg	☼	07/16/17 13:37	07/17/17 13:03	2
Pyrene	**3.4**	**E**	0.015	0.0068	mg/Kg	☼	07/16/17 13:37	07/17/17 13:03	2
Pyridine	ND		0.076	0.0073	mg/Kg	☼	07/16/17 13:37	07/17/17 13:03	2
2,4,5-Trichlorophenol	ND		0.076	0.0073	mg/Kg	☼	07/16/17 13:37	07/17/17 13:03	2
2,4,6-Trichlorophenol	ND		0.076	0.0067	mg/Kg	☼	07/16/17 13:37	07/17/17 13:03	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*70*		*42 - 100*	*07/16/17 13:37*	*07/17/17 13:03*	*2*
2-Fluorophenol (Surr)	*60*		*21 - 107*	*07/16/17 13:37*	*07/17/17 13:03*	*2*
Nitrobenzene-d5 (Surr)	*66*		*35 - 109*	*07/16/17 13:37*	*07/17/17 13:03*	*2*
Phenol-d5 (Surr)	*66*		*29 - 105*	*07/16/17 13:37*	*07/17/17 13:03*	*2*
Terphenyl-d14 (Surr)	*76*		*36 - 113*	*07/16/17 13:37*	*07/17/17 13:03*	*2*
2,4,6-Tribromophenol (Surr)	*76*		*20 - 134*	*07/16/17 13:37*	*07/17/17 13:03*	*2*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.077	0.026	mg/Kg	☼	07/16/17 13:37	07/18/17 16:15	10
Acenaphthylene	**0.33**		0.077	0.026	mg/Kg	☼	07/16/17 13:37	07/18/17 16:15	10
Anthracene	**0.67**		0.077	0.028	mg/Kg	☼	07/16/17 13:37	07/18/17 16:15	10
Benzo[a]anthracene	**2.1**		0.077	0.030	mg/Kg	☼	07/16/17 13:37	07/18/17 16:15	10
Benzo[a]pyrene	**1.9**		0.077	0.032	mg/Kg	☼	07/16/17 13:37	07/18/17 16:15	10
Benzo[b]fluoranthene	**2.4**		0.077	0.033	mg/Kg	☼	07/16/17 13:37	07/18/17 16:15	10
Benzo[g,h,i]perylene	**1.3**		0.077	0.033	mg/Kg	☼	07/16/17 13:37	07/18/17 16:15	10
Benzo[k]fluoranthene	**0.86**		0.077	0.026	mg/Kg	☼	07/16/17 13:37	07/18/17 16:15	10
Chrysene	**1.7**		0.077	0.030	mg/Kg	☼	07/16/17 13:37	07/18/17 16:15	10

Client Sample ID: W8, S3, C 71317 **Lab Sample ID: 180-68219-39**
Date Collected: 07/13/17 13:55 **Matrix: Solid**
Date Received: 07/14/17 13:15 **Percent Solids: 86.6**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	**0.33**		0.077	0.032	mg/Kg	☼	07/16/17 13:37	07/18/17 16:15	10
Dibenzofuran	**0.12**	**J**	0.38	0.031	mg/Kg	☼	07/16/17 13:37	07/18/17 16:15	10
2,4-Dinitrotoluene	ND		0.38	0.051	mg/Kg	☼	07/16/17 13:37	07/18/17 16:15	10
1,4-Dioxane	ND		0.77	0.058	mg/Kg	☼	07/16/17 13:37	07/18/17 16:15	10
Fluoranthene	**4.4**		0.077	0.030	mg/Kg	☼	07/16/17 13:37	07/18/17 16:15	10
Fluorene	**0.13**		0.077	0.027	mg/Kg	☼	07/16/17 13:37	07/18/17 16:15	10
Hexachlorobenzene	ND		0.077	0.031	mg/Kg	☼	07/16/17 13:37	07/18/17 16:15	10
Hexachlorobutadiene	ND		0.077	0.024	mg/Kg	☼	07/16/17 13:37	07/18/17 16:15	10
Hexachloroethane	ND		0.38	0.027	mg/Kg	☼	07/16/17 13:37	07/18/17 16:15	10
Indeno[1,2,3-cd]pyrene	**1.2**		0.077	0.030	mg/Kg	☼	07/16/17 13:37	07/18/17 16:15	10
2-Methylphenol	ND		0.38	0.034	mg/Kg	☼	07/16/17 13:37	07/18/17 16:15	10
Methylphenol, 3 & 4	**0.041**	**J**	0.38	0.034	mg/Kg	☼	07/16/17 13:37	07/18/17 16:15	10
Naphthalene	**0.21**		0.077	0.028	mg/Kg	☼	07/16/17 13:37	07/18/17 16:15	10
Nitrobenzene	ND		0.77	0.029	mg/Kg	☼	07/16/17 13:37	07/18/17 16:15	10
Pentachlorophenol	ND		2.0	0.72	mg/Kg	☼	07/16/17 13:37	07/18/17 16:15	10
Phenanthrene	**2.8**		0.077	0.032	mg/Kg	☼	07/16/17 13:37	07/18/17 16:15	10
Phenol	ND		0.38	0.052	mg/Kg	☼	07/16/17 13:37	07/18/17 16:15	10
Pyrene	**3.8**		0.077	0.034	mg/Kg	☼	07/16/17 13:37	07/18/17 16:15	10
Pyridine	ND		0.38	0.037	mg/Kg	☼	07/16/17 13:37	07/18/17 16:15	10
2,4,5-Trichlorophenol	ND		0.38	0.036	mg/Kg	☼	07/16/17 13:37	07/18/17 16:15	10
2,4,6-Trichlorophenol	ND		0.38	0.034	mg/Kg	☼	07/16/17 13:37	07/18/17 16:15	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*77*		*42 - 100*	*07/16/17 13:37*	*07/18/17 16:15*	*10*
2-Fluorophenol (Surr)	*60*		*21 - 107*	*07/16/17 13:37*	*07/18/17 16:15*	*10*
Nitrobenzene-d5 (Surr)	*68*		*35 - 109*	*07/16/17 13:37*	*07/18/17 16:15*	*10*
Phenol-d5 (Surr)	*68*		*29 - 105*	*07/16/17 13:37*	*07/18/17 16:15*	*10*
Terphenyl-d14 (Surr)	*86*		*36 - 113*	*07/16/17 13:37*	*07/18/17 16:15*	*10*
2,4,6-Tribromophenol (Surr)	*73*		*20 - 134*	*07/16/17 13:37*	*07/18/17 16:15*	*10*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.019	0.010	mg/Kg	☼	07/16/17 13:30	07/17/17 15:37	1
PCB-1221	ND		0.019	0.0098	mg/Kg	☼	07/16/17 13:30	07/17/17 15:37	1
PCB-1232	ND		0.019	0.0075	mg/Kg	☼	07/16/17 13:30	07/17/17 15:37	1
PCB-1242	ND		0.019	0.015	mg/Kg	☼	07/16/17 13:30	07/17/17 15:37	1
PCB-1248	**0.17**		0.019	0.0090	mg/Kg	☼	07/16/17 13:30	07/17/17 15:37	1
PCB-1254	**0.079**		0.019	0.0083	mg/Kg	☼	07/16/17 13:30	07/17/17 15:37	1
PCB-1260	**0.030**		0.019	0.013	mg/Kg	☼	07/16/17 13:30	07/17/17 15:37	1
PCB-1262	ND		0.019	0.014	mg/Kg	☼	07/16/17 13:30	07/17/17 15:37	1
PCB-1268	ND		0.019	0.0057	mg/Kg	☼	07/16/17 13:30	07/17/17 15:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*86*		*23 - 150*	*07/16/17 13:30*	*07/17/17 15:37*	*1*
DCB Decachlorobiphenyl (Surr)	*95*		*23 - 150*	*07/16/17 13:30*	*07/17/17 15:37*	*1*
Tetrachloro-m-xylene (Surr)	*83*		*27 - 138*	*07/16/17 13:30*	*07/17/17 15:37*	*1*
Tetrachloro-m-xylene (Surr)	*80*		*27 - 138*	*07/16/17 13:30*	*07/17/17 15:37*	*1*

Client Sample ID: W8, S3, C 71317

Lab Sample ID: 180-68219-39
Date Collected: 07/13/17 13:55
Matrix: Solid
Date Received: 07/14/17 13:15
Percent Solids: 86.6

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.5		1.2	0.53	mg/Kg	☼	07/18/17 10:32	07/20/17 14:11	1
Barium	76		24	6.4	mg/Kg	☼	07/18/17 10:32	07/20/17 14:11	1
Beryllium	0.42	J	0.48	0.12	mg/Kg	☼	07/18/17 10:32	07/20/17 14:11	1
Cadmium	0.13	J	0.60	0.13	mg/Kg	☼	07/18/17 10:32	07/20/17 14:11	1
Chromium	11		0.60	0.15	mg/Kg	☼	07/18/17 10:32	07/20/17 14:11	1
Copper	23		3.0	0.92	mg/Kg	☼	07/18/17 10:32	07/20/17 14:11	1
Lead	33		1.2	0.39	mg/Kg	☼	07/18/17 10:32	07/20/17 14:11	1
Manganese	390		1.8	0.48	mg/Kg	☼	07/18/17 10:32	07/20/17 14:11	1
Nickel	19		4.8	1.1	mg/Kg	☼	07/18/17 10:32	07/20/17 14:11	1
Selenium	ND		1.2	0.47	mg/Kg	☼	07/18/17 10:32	07/20/17 14:11	1
Silver	ND		0.60	0.20	mg/Kg	☼	07/18/17 10:32	07/20/17 14:11	1
Zinc	83		2.4	1.2	mg/Kg	☼	07/18/17 10:32	07/20/17 14:11	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.16		0.036	0.0081	mg/Kg	☼	07/18/17 14:51	07/19/17 13:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	13.4		0.1	0.1	%			07/17/17 12:16	1
Percent Solids	86.6		0.1	0.1	%			07/17/17 12:16	1
Cyanide, Total	0.64		0.54	0.17	mg/Kg	☼	07/18/17 10:56	07/18/17 15:11	1

Client Sample ID: DUP-11

Lab Sample ID: 180-68219-50
Date Collected: 07/13/17 00:00
Matrix: Solid
Date Received: 07/14/17 13:15
Percent Solids: 92.7

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.018	0.0028	mg/Kg	☼	07/18/17 06:00	07/18/17 12:38	1
Benzene	ND		0.0044	0.0017	mg/Kg	☼	07/18/17 06:00	07/18/17 12:38	1
2-Butanone (MEK)	ND		0.0044	0.0025	mg/Kg	☼	07/18/17 06:00	07/18/17 12:38	1
Carbon tetrachloride	ND		0.0044	0.0029	mg/Kg	☼	07/18/17 06:00	07/18/17 12:38	1
Chlorobenzene	ND		0.0044	0.0014	mg/Kg	☼	07/18/17 06:00	07/18/17 12:38	1
Chloroform	ND		0.0044	0.0019	mg/Kg	☼	07/18/17 06:00	07/18/17 12:38	1
cis-1,2-Dichloroethene	ND		0.0044	0.0014	mg/Kg	☼	07/18/17 06:00	07/18/17 12:38	1
1,2-Dichlorobenzene	ND		0.0044	0.0035	mg/Kg	☼	07/18/17 06:00	07/18/17 12:38	1
1,3-Dichlorobenzene	ND		0.0044	0.0014	mg/Kg	☼	07/18/17 06:00	07/18/17 12:38	1
1,4-Dichlorobenzene	ND		0.0044	0.00090	mg/Kg	☼	07/18/17 06:00	07/18/17 12:38	1
1,1-Dichloroethane	ND		0.0044	0.0016	mg/Kg	☼	07/18/17 06:00	07/18/17 12:38	1
1,2-Dichloroethane	ND		0.0044	0.0013	mg/Kg	☼	07/18/17 06:00	07/18/17 12:38	1
1,1-Dichloroethene	ND		0.0044	0.0025	mg/Kg	☼	07/18/17 06:00	07/18/17 12:38	1
Ethylbenzene	ND		0.0044	0.0019	mg/Kg	☼	07/18/17 06:00	07/18/17 12:38	1
Methylene Chloride	ND		0.0044	0.0021	mg/Kg	☼	07/18/17 06:00	07/18/17 12:38	1
Methyl tert-butyl ether	ND		0.0044	0.0032	mg/Kg	☼	07/18/17 06:00	07/18/17 12:38	1
n-Butylbenzene	ND		0.0044	0.0033	mg/Kg	☼	07/18/17 06:00	07/18/17 12:38	1
N-Propylbenzene	ND		0.0044	0.0019	mg/Kg	☼	07/18/17 06:00	07/18/17 12:38	1
sec-Butylbenzene	ND		0.0044	0.0021	mg/Kg	☼	07/18/17 06:00	07/18/17 12:38	1
tert-Butylbenzene	ND		0.0044	0.0016	mg/Kg	☼	07/18/17 06:00	07/18/17 12:38	1
Tetrachloroethene	ND		0.0044	0.0018	mg/Kg	☼	07/18/17 06:00	07/18/17 12:38	1

Client Sample ID: DUP-11

Date Collected: 07/13/17 00:00
Date Received: 07/14/17 13:15

Lab Sample ID: 180-68219-50

Matrix: Solid
Percent Solids: 92.7

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		0.0044	0.0015	mg/Kg	☼	07/18/17 06:00	07/18/17 12:38	1
trans-1,2-Dichloroethene	ND		0.0044	0.0022	mg/Kg	☼	07/18/17 06:00	07/18/17 12:38	1
1,1,1-Trichloroethane	ND		0.0044	0.0022	mg/Kg	☼	07/18/17 06:00	07/18/17 12:38	1
Trichloroethene	ND		0.0044	0.0013	mg/Kg	☼	07/18/17 06:00	07/18/17 12:38	1
1,2,4-Trimethylbenzene	ND		0.0044	0.0012	mg/Kg	☼	07/18/17 06:00	07/18/17 12:38	1
1,3,5-Trimethylbenzene	ND		0.0044	0.0015	mg/Kg	☼	07/18/17 06:00	07/18/17 12:38	1
Vinyl chloride	ND		0.0044	0.0032	mg/Kg	☼	07/18/17 06:00	07/18/17 12:38	1
Xylenes, Total	ND		0.0088	0.0038	mg/Kg	☼	07/18/17 06:00	07/18/17 12:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*63 - 120*	*07/18/17 06:00*	*07/18/17 12:38*	*1*
Dibromofluoromethane (Surr)	*92*		*68 - 121*	*07/18/17 06:00*	*07/18/17 12:38*	*1*
1,2-Dichloroethane-d4 (Surr)	*80*		*52 - 124*	*07/18/17 06:00*	*07/18/17 12:38*	*1*
Toluene-d8 (Surr)	*114*		*72 - 127*	*07/18/17 06:00*	*07/18/17 12:38*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**7.3**		0.1	0.1	%			07/17/17 15:21	1
Percent Solids	**92.7**		0.1	0.1	%			07/17/17 15:21	1

Client Sample ID: DUP-12

Date Collected: 07/13/17 00:00
Date Received: 07/14/17 13:15

Lab Sample ID: 180-68219-51

Matrix: Solid
Percent Solids: 92.0

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.016	0.0026	mg/Kg	☼	07/18/17 06:00	07/18/17 13:01	1
Benzene	ND		0.0041	0.0016	mg/Kg	☼	07/18/17 06:00	07/18/17 13:01	1
2-Butanone (MEK)	ND		0.0041	0.0024	mg/Kg	☼	07/18/17 06:00	07/18/17 13:01	1
Carbon tetrachloride	ND		0.0041	0.0027	mg/Kg	☼	07/18/17 06:00	07/18/17 13:01	1
Chlorobenzene	ND		0.0041	0.0013	mg/Kg	☼	07/18/17 06:00	07/18/17 13:01	1
Chloroform	ND		0.0041	0.0017	mg/Kg	☼	07/18/17 06:00	07/18/17 13:01	1
cis-1,2-Dichloroethene	ND		0.0041	0.0013	mg/Kg	☼	07/18/17 06:00	07/18/17 13:01	1
1,2-Dichlorobenzene	ND		0.0041	0.0033	mg/Kg	☼	07/18/17 06:00	07/18/17 13:01	1
1,3-Dichlorobenzene	ND		0.0041	0.0013	mg/Kg	☼	07/18/17 06:00	07/18/17 13:01	1
1,4-Dichlorobenzene	ND		0.0041	0.00083	mg/Kg	☼	07/18/17 06:00	07/18/17 13:01	1
1,1-Dichloroethane	ND		0.0041	0.0015	mg/Kg	☼	07/18/17 06:00	07/18/17 13:01	1
1,2-Dichloroethane	ND		0.0041	0.0012	mg/Kg	☼	07/18/17 06:00	07/18/17 13:01	1
1,1-Dichloroethene	ND		0.0041	0.0023	mg/Kg	☼	07/18/17 06:00	07/18/17 13:01	1
Ethylbenzene	ND		0.0041	0.0018	mg/Kg	☼	07/18/17 06:00	07/18/17 13:01	1
Methylene Chloride	ND		0.0041	0.0019	mg/Kg	☼	07/18/17 06:00	07/18/17 13:01	1
Methyl tert-butyl ether	ND		0.0041	0.0030	mg/Kg	☼	07/18/17 06:00	07/18/17 13:01	1
n-Butylbenzene	ND		0.0041	0.0031	mg/Kg	☼	07/18/17 06:00	07/18/17 13:01	1
N-Propylbenzene	ND		0.0041	0.0017	mg/Kg	☼	07/18/17 06:00	07/18/17 13:01	1
sec-Butylbenzene	ND		0.0041	0.0020	mg/Kg	☼	07/18/17 06:00	07/18/17 13:01	1
tert-Butylbenzene	ND		0.0041	0.0015	mg/Kg	☼	07/18/17 06:00	07/18/17 13:01	1
Tetrachloroethene	ND		0.0041	0.0016	mg/Kg	☼	07/18/17 06:00	07/18/17 13:01	1
Toluene	ND		0.0041	0.0014	mg/Kg	☼	07/18/17 06:00	07/18/17 13:01	1
trans-1,2-Dichloroethene	ND		0.0041	0.0021	mg/Kg	☼	07/18/17 06:00	07/18/17 13:01	1
1,1,1-Trichloroethane	ND		0.0041	0.0020	mg/Kg	☼	07/18/17 06:00	07/18/17 13:01	1

Client Sample ID: DUP-12

Date Collected: 07/13/17 00:00
Date Received: 07/14/17 13:15

Lab Sample ID: 180-68219-51

Matrix: Solid
Percent Solids: 92.0

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	ND		0.0041	0.0012	mg/Kg	☼	07/18/17 06:00	07/18/17 13:01	1
1,2,4-Trimethylbenzene	ND		0.0041	0.0011	mg/Kg	☼	07/18/17 06:00	07/18/17 13:01	1
1,3,5-Trimethylbenzene	ND		0.0041	0.0014	mg/Kg	☼	07/18/17 06:00	07/18/17 13:01	1
Vinyl chloride	ND		0.0041	0.0030	mg/Kg	☼	07/18/17 06:00	07/18/17 13:01	1
Xylenes, Total	ND		0.0082	0.0035	mg/Kg	☼	07/18/17 06:00	07/18/17 13:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*63 - 120*	*07/18/17 06:00*	*07/18/17 13:01*	*1*
Dibromofluoromethane (Surr)	*92*		*68 - 121*	*07/18/17 06:00*	*07/18/17 13:01*	*1*
1,2-Dichloroethane-d4 (Surr)	*81*		*52 - 124*	*07/18/17 06:00*	*07/18/17 13:01*	*1*
Toluene-d8 (Surr)	*113*		*72 - 127*	*07/18/17 06:00*	*07/18/17 13:01*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**8.0**		0.1	0.1	%			07/17/17 15:21	1
Percent Solids	**92.0**		0.1	0.1	%			07/17/17 15:21	1

Client Sample ID: DUP-13

Date Collected: 07/13/17 00:00
Date Received: 07/14/17 13:15

Lab Sample ID: 180-68219-52

Matrix: Solid
Percent Solids: 91.0

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.017	0.0027	mg/Kg	☼	07/18/17 06:00	07/18/17 13:23	1
Benzene	ND		0.0043	0.0017	mg/Kg	☼	07/18/17 06:00	07/18/17 13:23	1
2-Butanone (MEK)	ND		0.0043	0.0025	mg/Kg	☼	07/18/17 06:00	07/18/17 13:23	1
Carbon tetrachloride	ND		0.0043	0.0029	mg/Kg	☼	07/18/17 06:00	07/18/17 13:23	1
Chlorobenzene	ND		0.0043	0.0014	mg/Kg	☼	07/18/17 06:00	07/18/17 13:23	1
Chloroform	ND		0.0043	0.0018	mg/Kg	☼	07/18/17 06:00	07/18/17 13:23	1
cis-1,2-Dichloroethene	ND		0.0043	0.0014	mg/Kg	☼	07/18/17 06:00	07/18/17 13:23	1
1,2-Dichlorobenzene	ND		0.0043	0.0035	mg/Kg	☼	07/18/17 06:00	07/18/17 13:23	1
1,3-Dichlorobenzene	ND		0.0043	0.0014	mg/Kg	☼	07/18/17 06:00	07/18/17 13:23	1
1,4-Dichlorobenzene	ND		0.0043	0.00088	mg/Kg	☼	07/18/17 06:00	07/18/17 13:23	1
1,1-Dichloroethane	ND		0.0043	0.0016	mg/Kg	☼	07/18/17 06:00	07/18/17 13:23	1
1,2-Dichloroethane	ND		0.0043	0.0013	mg/Kg	☼	07/18/17 06:00	07/18/17 13:23	1
1,1-Dichloroethene	ND		0.0043	0.0025	mg/Kg	☼	07/18/17 06:00	07/18/17 13:23	1
Ethylbenzene	ND		0.0043	0.0019	mg/Kg	☼	07/18/17 06:00	07/18/17 13:23	1
Methylene Chloride	ND		0.0043	0.0020	mg/Kg	☼	07/18/17 06:00	07/18/17 13:23	1
Methyl tert-butyl ether	ND		0.0043	0.0032	mg/Kg	☼	07/18/17 06:00	07/18/17 13:23	1
n-Butylbenzene	ND		0.0043	0.0033	mg/Kg	☼	07/18/17 06:00	07/18/17 13:23	1
N-Propylbenzene	ND		0.0043	0.0018	mg/Kg	☼	07/18/17 06:00	07/18/17 13:23	1
sec-Butylbenzene	ND		0.0043	0.0021	mg/Kg	☼	07/18/17 06:00	07/18/17 13:23	1
tert-Butylbenzene	ND		0.0043	0.0016	mg/Kg	☼	07/18/17 06:00	07/18/17 13:23	1
Tetrachloroethene	ND		0.0043	0.0017	mg/Kg	☼	07/18/17 06:00	07/18/17 13:23	1
Toluene	ND		0.0043	0.0015	mg/Kg	☼	07/18/17 06:00	07/18/17 13:23	1
trans-1,2-Dichloroethene	ND		0.0043	0.0022	mg/Kg	☼	07/18/17 06:00	07/18/17 13:23	1
1,1,1-Trichloroethane	ND		0.0043	0.0022	mg/Kg	☼	07/18/17 06:00	07/18/17 13:23	1
Trichloroethene	ND		0.0043	0.0013	mg/Kg	☼	07/18/17 06:00	07/18/17 13:23	1
1,2,4-Trimethylbenzene	ND		0.0043	0.0012	mg/Kg	☼	07/18/17 06:00	07/18/17 13:23	1
1,3,5-Trimethylbenzene	ND		0.0043	0.0015	mg/Kg	☼	07/18/17 06:00	07/18/17 13:23	1

Client Sample ID: DUP-13 — Lab Sample ID: 180-68219-52

Date Collected: 07/13/17 00:00 — **Matrix: Solid**
Date Received: 07/14/17 13:15 — **Percent Solids: 91.0**

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		0.0043	0.0032	mg/Kg	☼	07/18/17 06:00	07/18/17 13:23	1
Xylenes, Total	ND		0.0086	0.0037	mg/Kg	☼	07/18/17 06:00	07/18/17 13:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*84*		*63 - 120*	*07/18/17 06:00*	*07/18/17 13:23*	*1*
Dibromofluoromethane (Surr)	*93*		*68 - 121*	*07/18/17 06:00*	*07/18/17 13:23*	*1*
1,2-Dichloroethane-d4 (Surr)	*82*		*52 - 124*	*07/18/17 06:00*	*07/18/17 13:23*	*1*
Toluene-d8 (Surr)	*118*		*72 - 127*	*07/18/17 06:00*	*07/18/17 13:23*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.0**		0.1	0.1	%			07/17/17 15:21	1
Percent Solids	**91.0**		0.1	0.1	%			07/17/17 15:21	1

Client Sample ID: DUP-9 — Lab Sample ID: 180-68219-53

Date Collected: 07/13/17 00:00 — **Matrix: Solid**
Date Received: 07/14/17 13:15 — **Percent Solids: 87.3**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.019	0.0030	mg/Kg	☼	07/19/17 05:28	07/19/17 09:15	1
Benzene	ND		0.0048	0.0019	mg/Kg	☼	07/19/17 05:28	07/19/17 09:15	1
2-Butanone (MEK)	ND		0.0048	0.0028	mg/Kg	☼	07/19/17 05:28	07/19/17 09:15	1
Carbon tetrachloride	ND		0.0048	0.0032	mg/Kg	☼	07/19/17 05:28	07/19/17 09:15	1
Chlorobenzene	ND		0.0048	0.0015	mg/Kg	☼	07/19/17 05:28	07/19/17 09:15	1
Chloroform	ND		0.0048	0.0020	mg/Kg	☼	07/19/17 05:28	07/19/17 09:15	1
cis-1,2-Dichloroethene	ND		0.0048	0.0015	mg/Kg	☼	07/19/17 05:28	07/19/17 09:15	1
1,2-Dichlorobenzene	ND		0.0048	0.0038	mg/Kg	☼	07/19/17 05:28	07/19/17 09:15	1
1,3-Dichlorobenzene	ND		0.0048	0.0015	mg/Kg	☼	07/19/17 05:28	07/19/17 09:15	1
1,4-Dichlorobenzene	ND		0.0048	0.00097	mg/Kg	☼	07/19/17 05:28	07/19/17 09:15	1
1,1-Dichloroethane	ND		0.0048	0.0017	mg/Kg	☼	07/19/17 05:28	07/19/17 09:15	1
1,2-Dichloroethane	ND		0.0048	0.0014	mg/Kg	☼	07/19/17 05:28	07/19/17 09:15	1
1,1-Dichloroethene	ND		0.0048	0.0027	mg/Kg	☼	07/19/17 05:28	07/19/17 09:15	1
Ethylbenzene	ND		0.0048	0.0020	mg/Kg	☼	07/19/17 05:28	07/19/17 09:15	1
Methylene Chloride	ND		0.0048	0.0022	mg/Kg	☼	07/19/17 05:28	07/19/17 09:15	1
Methyl tert-butyl ether	ND		0.0048	0.0035	mg/Kg	☼	07/19/17 05:28	07/19/17 09:15	1
n-Butylbenzene	ND		0.0048	0.0036	mg/Kg	☼	07/19/17 05:28	07/19/17 09:15	1
N-Propylbenzene	ND		0.0048	0.0020	mg/Kg	☼	07/19/17 05:28	07/19/17 09:15	1
sec-Butylbenzene	ND		0.0048	0.0023	mg/Kg	☼	07/19/17 05:28	07/19/17 09:15	1
tert-Butylbenzene	ND		0.0048	0.0017	mg/Kg	☼	07/19/17 05:28	07/19/17 09:15	1
Tetrachloroethene	ND		0.0048	0.0019	mg/Kg	☼	07/19/17 05:28	07/19/17 09:15	1
Toluene	ND		0.0048	0.0016	mg/Kg	☼	07/19/17 05:28	07/19/17 09:15	1
trans-1,2-Dichloroethene	ND		0.0048	0.0024	mg/Kg	☼	07/19/17 05:28	07/19/17 09:15	1
1,1,1-Trichloroethane	ND		0.0048	0.0024	mg/Kg	☼	07/19/17 05:28	07/19/17 09:15	1
Trichloroethene	ND		0.0048	0.0014	mg/Kg	☼	07/19/17 05:28	07/19/17 09:15	1
1,2,4-Trimethylbenzene	ND		0.0048	0.0013	mg/Kg	☼	07/19/17 05:28	07/19/17 09:15	1
1,3,5-Trimethylbenzene	ND		0.0048	0.0016	mg/Kg	☼	07/19/17 05:28	07/19/17 09:15	1
Vinyl chloride	ND		0.0048	0.0035	mg/Kg	☼	07/19/17 05:28	07/19/17 09:15	1
Xylenes, Total	ND		0.0095	0.0041	mg/Kg	☼	07/19/17 05:28	07/19/17 09:15	1

Client Sample ID: DUP-9

Lab Sample ID: 180-68219-53
Date Collected: 07/13/17 00:00
Matrix: Solid
Date Received: 07/14/17 13:15
Percent Solids: 87.3

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*97*		*63 - 120*	*07/19/17 05:28*	*07/19/17 09:15*	*1*
Dibromofluoromethane (Surr)	*92*		*68 - 121*	*07/19/17 05:28*	*07/19/17 09:15*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*52 - 124*	*07/19/17 05:28*	*07/19/17 09:15*	*1*
Toluene-d8 (Surr)	*105*		*72 - 127*	*07/19/17 05:28*	*07/19/17 09:15*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**12.7**		0.1	0.1	%			07/17/17 15:21	1
Percent Solids	**87.3**		0.1	0.1	%			07/17/17 15:21	1

Client Sample ID: DUP-10

Lab Sample ID: 180-68219-54
Date Collected: 07/13/17 00:00
Matrix: Solid
Date Received: 07/14/17 13:15
Percent Solids: 87.2

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.038	0.013	mg/Kg	☼	07/16/17 13:37	07/17/17 13:30	5
Acenaphthylene	**0.10**		0.038	0.013	mg/Kg	☼	07/16/17 13:37	07/17/17 13:30	5
Anthracene	**0.066**		0.038	0.014	mg/Kg	☼	07/16/17 13:37	07/17/17 13:30	5
Benzo[a]anthracene	**0.18**		0.038	0.015	mg/Kg	☼	07/16/17 13:37	07/17/17 13:30	5
Benzo[a]pyrene	**0.19**		0.038	0.016	mg/Kg	☼	07/16/17 13:37	07/17/17 13:30	5
Benzo[b]fluoranthene	**0.21**		0.038	0.016	mg/Kg	☼	07/16/17 13:37	07/17/17 13:30	5
Benzo[g,h,i]perylene	**0.18**		0.038	0.016	mg/Kg	☼	07/16/17 13:37	07/17/17 13:30	5
Benzo[k]fluoranthene	**0.088**		0.038	0.013	mg/Kg	☼	07/16/17 13:37	07/17/17 13:30	5
Chrysene	**0.18**		0.038	0.015	mg/Kg	☼	07/16/17 13:37	07/17/17 13:30	5
Dibenz(a,h)anthracene	**0.042**		0.038	0.016	mg/Kg	☼	07/16/17 13:37	07/17/17 13:30	5
Dibenzofuran	ND		0.19	0.015	mg/Kg	☼	07/16/17 13:37	07/17/17 13:30	5
2,4-Dinitrotoluene	ND		0.19	0.025	mg/Kg	☼	07/16/17 13:37	07/17/17 13:30	5
1,4-Dioxane	ND		0.38	0.029	mg/Kg	☼	07/16/17 13:37	07/17/17 13:30	5
Fluoranthene	**0.26**		0.038	0.015	mg/Kg	☼	07/16/17 13:37	07/17/17 13:30	5
Fluorene	**0.016**	**J**	0.038	0.014	mg/Kg	☼	07/16/17 13:37	07/17/17 13:30	5
Hexachlorobenzene	ND		0.038	0.015	mg/Kg	☼	07/16/17 13:37	07/17/17 13:30	5
Hexachlorobutadiene	ND		0.038	0.012	mg/Kg	☼	07/16/17 13:37	07/17/17 13:30	5
Hexachloroethane	ND		0.19	0.014	mg/Kg	☼	07/16/17 13:37	07/17/17 13:30	5
Indeno[1,2,3-cd]pyrene	**0.14**		0.038	0.015	mg/Kg	☼	07/16/17 13:37	07/17/17 13:30	5
2-Methylphenol	ND		0.19	0.017	mg/Kg	☼	07/16/17 13:37	07/17/17 13:30	5
Methylphenol, 3 & 4	ND		0.19	0.017	mg/Kg	☼	07/16/17 13:37	07/17/17 13:30	5
Naphthalene	**0.050**		0.038	0.014	mg/Kg	☼	07/16/17 13:37	07/17/17 13:30	5
Nitrobenzene	ND		0.38	0.015	mg/Kg	☼	07/16/17 13:37	07/17/17 13:30	5
Pentachlorophenol	ND		0.97	0.36	mg/Kg	☼	07/16/17 13:37	07/17/17 13:30	5
Phenanthrene	**0.14**		0.038	0.016	mg/Kg	☼	07/16/17 13:37	07/17/17 13:30	5
Phenol	ND		0.19	0.026	mg/Kg	☼	07/16/17 13:37	07/17/17 13:30	5
Pyrene	**0.27**		0.038	0.017	mg/Kg	☼	07/16/17 13:37	07/17/17 13:30	5
Pyridine	ND		0.19	0.018	mg/Kg	☼	07/16/17 13:37	07/17/17 13:30	5
2,4,5-Trichlorophenol	ND		0.19	0.018	mg/Kg	☼	07/16/17 13:37	07/17/17 13:30	5
2,4,6-Trichlorophenol	ND		0.19	0.017	mg/Kg	☼	07/16/17 13:37	07/17/17 13:30	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	*67*		*42 - 100*	*07/16/17 13:37*	*07/17/17 13:30*	*5*
2-Fluorophenol (Surr)	*58*		*21 - 107*	*07/16/17 13:37*	*07/17/17 13:30*	*5*
Nitrobenzene-d5 (Surr)	*65*		*35 - 109*	*07/16/17 13:37*	*07/17/17 13:30*	*5*

Client Sample ID: DUP-10
Date Collected: 07/13/17 00:00
Date Received: 07/14/17 13:15

Lab Sample ID: 180-68219-54
Matrix: Solid
Percent Solids: 87.2

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Phenol-d5 (Surr)	*61*		*29 - 105*	*07/16/17 13:37*	*07/17/17 13:30*	*5*
Terphenyl-d14 (Surr)	*72*		*36 - 113*	*07/16/17 13:37*	*07/17/17 13:30*	*5*
2,4,6-Tribromophenol (Surr)	*66*		*20 - 134*	*07/16/17 13:37*	*07/17/17 13:30*	*5*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.019	0.010	mg/Kg	☼	07/16/17 13:30	07/17/17 15:57	1
PCB-1221	ND		0.019	0.0098	mg/Kg	☼	07/16/17 13:30	07/17/17 15:57	1
PCB-1232	ND		0.019	0.0075	mg/Kg	☼	07/16/17 13:30	07/17/17 15:57	1
PCB-1242	ND		0.019	0.015	mg/Kg	☼	07/16/17 13:30	07/17/17 15:57	1
PCB-1248	**1.5**		0.019	0.0090	mg/Kg	☼	07/16/17 13:30	07/17/17 15:57	1
PCB-1254	**0.60**		0.019	0.0083	mg/Kg	☼	07/16/17 13:30	07/17/17 15:57	1
PCB-1260	**0.23**		0.019	0.013	mg/Kg	☼	07/16/17 13:30	07/17/17 15:57	1
PCB-1262	ND		0.019	0.014	mg/Kg	☼	07/16/17 13:30	07/17/17 15:57	1
PCB-1268	ND		0.019	0.0057	mg/Kg	☼	07/16/17 13:30	07/17/17 15:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	*92*		*23 - 150*	*07/16/17 13:30*	*07/17/17 15:57*	*1*
DCB Decachlorobiphenyl (Surr)	*98*		*23 - 150*	*07/16/17 13:30*	*07/17/17 15:57*	*1*
Tetrachloro-m-xylene (Surr)	*89*		*27 - 138*	*07/16/17 13:30*	*07/17/17 15:57*	*1*
Tetrachloro-m-xylene (Surr)	*86*		*27 - 138*	*07/16/17 13:30*	*07/17/17 15:57*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**4.4**		1.1	0.48	mg/Kg	☼	07/18/17 10:32	07/20/17 14:16	1
Barium	**42**		22	5.9	mg/Kg	☼	07/18/17 10:32	07/20/17 14:16	1
Beryllium	**0.25**	**J**	0.44	0.11	mg/Kg	☼	07/18/17 10:32	07/20/17 14:16	1
Cadmium	ND		0.55	0.12	mg/Kg	☼	07/18/17 10:32	07/20/17 14:16	1
Chromium	**7.5**		0.55	0.14	mg/Kg	☼	07/18/17 10:32	07/20/17 14:16	1
Copper	**26**		2.7	0.84	mg/Kg	☼	07/18/17 10:32	07/20/17 14:16	1
Lead	**26**		1.1	0.36	mg/Kg	☼	07/18/17 10:32	07/20/17 14:16	1
Manganese	**270**		1.6	0.44	mg/Kg	☼	07/18/17 10:32	07/20/17 14:16	1
Nickel	**13**		4.4	0.98	mg/Kg	☼	07/18/17 10:32	07/20/17 14:16	1
Selenium	ND		1.1	0.43	mg/Kg	☼	07/18/17 10:32	07/20/17 14:16	1
Silver	ND		0.55	0.18	mg/Kg	☼	07/18/17 10:32	07/20/17 14:16	1
Zinc	**47**		2.2	1.1	mg/Kg	☼	07/18/17 10:32	07/20/17 14:16	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.10**		0.037	0.0082	mg/Kg	☼	07/18/17 14:51	07/19/17 13:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**12.8**		0.1	0.1	%			07/17/17 12:16	1
Percent Solids	**87.2**		0.1	0.1	%			07/17/17 12:16	1
Cyanide, Total	**0.17**	**J**	0.56	0.17	mg/Kg	☼	07/18/17 10:56	07/18/17 15:13	1

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68219-1

Client Sample ID: TRIP BLANK 1

Lab Sample ID: 180-68219-55
Date Collected: 07/13/17 00:00
Matrix: Water
Date Received: 07/14/17 13:15

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	3.5	J	5.0	3.1	ug/L			07/19/17 16:09	1
Benzene	ND		1.0	0.18	ug/L			07/19/17 16:09	1
2-Butanone (MEK)	ND		5.0	2.6	ug/L			07/19/17 16:09	1
Carbon tetrachloride	ND		1.0	0.56	ug/L			07/19/17 16:09	1
Chlorobenzene	ND		1.0	0.15	ug/L			07/19/17 16:09	1
Chloroform	ND		1.0	0.27	ug/L			07/19/17 16:09	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			07/19/17 16:09	1
1,2-Dichlorobenzene	ND		1.0	0.23	ug/L			07/19/17 16:09	1
1,3-Dichlorobenzene	ND		1.0	0.21	ug/L			07/19/17 16:09	1
1,4-Dichlorobenzene	ND		1.0	0.24	ug/L			07/19/17 16:09	1
1,1-Dichloroethane	ND		1.0	0.34	ug/L			07/19/17 16:09	1
1,2-Dichloroethane	ND		1.0	0.24	ug/L			07/19/17 16:09	1
1,1-Dichloroethene	ND		1.0	0.32	ug/L			07/19/17 16:09	1
Ethylbenzene	ND		1.0	0.25	ug/L			07/19/17 16:09	1
Methylene Chloride	ND		1.0	0.94	ug/L			07/19/17 16:09	1
Methyl tert-butyl ether	ND		1.0	0.20	ug/L			07/19/17 16:09	1
n-Butylbenzene	ND		1.0	0.22	ug/L			07/19/17 16:09	1
N-Propylbenzene	ND		1.0	0.20	ug/L			07/19/17 16:09	1
sec-Butylbenzene	ND		1.0	0.22	ug/L			07/19/17 16:09	1
tert-Butylbenzene	ND		1.0	0.17	ug/L			07/19/17 16:09	1
Tetrachloroethene	ND		1.0	0.24	ug/L			07/19/17 16:09	1
Toluene	ND		1.0	0.16	ug/L			07/19/17 16:09	1
trans-1,2-Dichloroethene	ND		1.0	0.20	ug/L			07/19/17 16:09	1
1,1,1-Trichloroethane	ND		1.0	0.27	ug/L			07/19/17 16:09	1
Trichloroethene	ND		1.0	0.20	ug/L			07/19/17 16:09	1
1,2,4-Trimethylbenzene	ND		1.0	0.18	ug/L			07/19/17 16:09	1
1,3,5-Trimethylbenzene	ND		1.0	0.17	ug/L			07/19/17 16:09	1
Vinyl chloride	ND		1.0	0.17	ug/L			07/19/17 16:09	1
Xylenes, Total	ND		2.0	0.27	ug/L			07/19/17 16:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*72 - 120*		*07/19/17 16:09*	*1*
Dibromofluoromethane (Surr)	*89*		*77 - 127*		*07/19/17 16:09*	*1*
1,2-Dichloroethane-d4 (Surr)	*80*		*72 - 134*		*07/19/17 16:09*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*07/19/17 16:09*	*1*

Client Sample ID: TRIP BLANK 2

Lab Sample ID: 180-68219-56
Date Collected: 07/13/17 00:00
Matrix: Water
Date Received: 07/14/17 13:15

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	3.9	J	5.0	3.1	ug/L			07/19/17 16:33	1
Benzene	ND		1.0	0.18	ug/L			07/19/17 16:33	1
2-Butanone (MEK)	ND		5.0	2.6	ug/L			07/19/17 16:33	1
Carbon tetrachloride	ND		1.0	0.56	ug/L			07/19/17 16:33	1
Chlorobenzene	ND		1.0	0.15	ug/L			07/19/17 16:33	1
Chloroform	ND		1.0	0.27	ug/L			07/19/17 16:33	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			07/19/17 16:33	1
1,2-Dichlorobenzene	ND		1.0	0.23	ug/L			07/19/17 16:33	1

Client Sample ID: TRIP BLANK 2

Lab Sample ID: 180-68219-56

Date Collected: 07/13/17 00:00

Matrix: Water

Date Received: 07/14/17 13:15

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		1.0	0.21	ug/L			07/19/17 16:33	1
1,4-Dichlorobenzene	ND		1.0	0.24	ug/L			07/19/17 16:33	1
1,1-Dichloroethane	ND		1.0	0.34	ug/L			07/19/17 16:33	1
1,2-Dichloroethane	ND		1.0	0.24	ug/L			07/19/17 16:33	1
1,1-Dichloroethene	ND		1.0	0.32	ug/L			07/19/17 16:33	1
Ethylbenzene	ND		1.0	0.25	ug/L			07/19/17 16:33	1
Methylene Chloride	ND		1.0	0.94	ug/L			07/19/17 16:33	1
Methyl tert-butyl ether	ND		1.0	0.20	ug/L			07/19/17 16:33	1
n-Butylbenzene	ND		1.0	0.22	ug/L			07/19/17 16:33	1
N-Propylbenzene	ND		1.0	0.20	ug/L			07/19/17 16:33	1
sec-Butylbenzene	ND		1.0	0.22	ug/L			07/19/17 16:33	1
tert-Butylbenzene	ND		1.0	0.17	ug/L			07/19/17 16:33	1
Tetrachloroethene	ND		1.0	0.24	ug/L			07/19/17 16:33	1
Toluene	ND		1.0	0.16	ug/L			07/19/17 16:33	1
trans-1,2-Dichloroethene	ND		1.0	0.20	ug/L			07/19/17 16:33	1
1,1,1-Trichloroethane	ND		1.0	0.27	ug/L			07/19/17 16:33	1
Trichloroethene	ND		1.0	0.20	ug/L			07/19/17 16:33	1
1,2,4-Trimethylbenzene	ND		1.0	0.18	ug/L			07/19/17 16:33	1
1,3,5-Trimethylbenzene	ND		1.0	0.17	ug/L			07/19/17 16:33	1
Vinyl chloride	ND		1.0	0.17	ug/L			07/19/17 16:33	1
Xylenes, Total	ND		2.0	0.27	ug/L			07/19/17 16:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*72 - 120*		*07/19/17 16:33*	*1*
Dibromofluoromethane (Surr)	*90*		*77 - 127*		*07/19/17 16:33*	*1*
1,2-Dichloroethane-d4 (Surr)	*78*		*72 - 134*		*07/19/17 16:33*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*07/19/17 16:33*	*1*

Client Sample ID: TRIP BLANK 3

Lab Sample ID: 180-68219-57

Date Collected: 07/13/17 00:00

Matrix: Water

Date Received: 07/14/17 13:15

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**3.2**	**J**	5.0	3.1	ug/L			07/19/17 16:57	1
Benzene	ND		1.0	0.18	ug/L			07/19/17 16:57	1
2-Butanone (MEK)	ND		5.0	2.6	ug/L			07/19/17 16:57	1
Carbon tetrachloride	ND		1.0	0.56	ug/L			07/19/17 16:57	1
Chlorobenzene	ND		1.0	0.15	ug/L			07/19/17 16:57	1
Chloroform	ND		1.0	0.27	ug/L			07/19/17 16:57	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			07/19/17 16:57	1
1,2-Dichlorobenzene	ND		1.0	0.23	ug/L			07/19/17 16:57	1
1,3-Dichlorobenzene	ND		1.0	0.21	ug/L			07/19/17 16:57	1
1,4-Dichlorobenzene	ND		1.0	0.24	ug/L			07/19/17 16:57	1
1,1-Dichloroethane	ND		1.0	0.34	ug/L			07/19/17 16:57	1
1,2-Dichloroethane	ND		1.0	0.24	ug/L			07/19/17 16:57	1
1,1-Dichloroethene	ND		1.0	0.32	ug/L			07/19/17 16:57	1
Ethylbenzene	ND		1.0	0.25	ug/L			07/19/17 16:57	1
Methylene Chloride	ND		1.0	0.94	ug/L			07/19/17 16:57	1
Methyl tert-butyl ether	ND		1.0	0.20	ug/L			07/19/17 16:57	1

Client Sample ID: TRIP BLANK 3

Lab Sample ID: 180-68219-57
Date Collected: 07/13/17 00:00
Matrix: Water
Date Received: 07/14/17 13:15

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Butylbenzene	ND		1.0	0.22	ug/L			07/19/17 16:57	1
N-Propylbenzene	ND		1.0	0.20	ug/L			07/19/17 16:57	1
sec-Butylbenzene	ND		1.0	0.22	ug/L			07/19/17 16:57	1
tert-Butylbenzene	ND		1.0	0.17	ug/L			07/19/17 16:57	1
Tetrachloroethene	ND		1.0	0.24	ug/L			07/19/17 16:57	1
Toluene	ND		1.0	0.16	ug/L			07/19/17 16:57	1
trans-1,2-Dichloroethene	ND		1.0	0.20	ug/L			07/19/17 16:57	1
1,1,1-Trichloroethane	ND		1.0	0.27	ug/L			07/19/17 16:57	1
Trichloroethene	ND		1.0	0.20	ug/L			07/19/17 16:57	1
1,2,4-Trimethylbenzene	ND		1.0	0.18	ug/L			07/19/17 16:57	1
1,3,5-Trimethylbenzene	ND		1.0	0.17	ug/L			07/19/17 16:57	1
Vinyl chloride	ND		1.0	0.17	ug/L			07/19/17 16:57	1
Xylenes, Total	ND		2.0	0.27	ug/L			07/19/17 16:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*72 - 120*		*07/19/17 16:57*	*1*
Dibromofluoromethane (Surr)	*91*		*77 - 127*		*07/19/17 16:57*	*1*
1,2-Dichloroethane-d4 (Surr)	*78*		*72 - 134*		*07/19/17 16:57*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*07/19/17 16:57*	*1*

Client Sample ID: TRIP BLANK 4

Lab Sample ID: 180-68219-58
Date Collected: 07/13/17 00:00
Matrix: Water
Date Received: 07/14/17 13:15

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**4.0**	**J**	5.0	3.1	ug/L			07/19/17 17:22	1
Benzene	ND		1.0	0.18	ug/L			07/19/17 17:22	1
2-Butanone (MEK)	ND		5.0	2.6	ug/L			07/19/17 17:22	1
Carbon tetrachloride	ND		1.0	0.56	ug/L			07/19/17 17:22	1
Chlorobenzene	ND		1.0	0.15	ug/L			07/19/17 17:22	1
Chloroform	ND		1.0	0.27	ug/L			07/19/17 17:22	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			07/19/17 17:22	1
1,2-Dichlorobenzene	ND		1.0	0.23	ug/L			07/19/17 17:22	1
1,3-Dichlorobenzene	ND		1.0	0.21	ug/L			07/19/17 17:22	1
1,4-Dichlorobenzene	ND		1.0	0.24	ug/L			07/19/17 17:22	1
1,1-Dichloroethane	ND		1.0	0.34	ug/L			07/19/17 17:22	1
1,2-Dichloroethane	ND		1.0	0.24	ug/L			07/19/17 17:22	1
1,1-Dichloroethene	ND		1.0	0.32	ug/L			07/19/17 17:22	1
Ethylbenzene	ND		1.0	0.25	ug/L			07/19/17 17:22	1
Methylene Chloride	ND		1.0	0.94	ug/L			07/19/17 17:22	1
Methyl tert-butyl ether	ND		1.0	0.20	ug/L			07/19/17 17:22	1
n-Butylbenzene	ND		1.0	0.22	ug/L			07/19/17 17:22	1
N-Propylbenzene	ND		1.0	0.20	ug/L			07/19/17 17:22	1
sec-Butylbenzene	ND		1.0	0.22	ug/L			07/19/17 17:22	1
tert-Butylbenzene	ND		1.0	0.17	ug/L			07/19/17 17:22	1
Tetrachloroethene	ND		1.0	0.24	ug/L			07/19/17 17:22	1
Toluene	ND		1.0	0.16	ug/L			07/19/17 17:22	1
trans-1,2-Dichloroethene	ND		1.0	0.20	ug/L			07/19/17 17:22	1
1,1,1-Trichloroethane	ND		1.0	0.27	ug/L			07/19/17 17:22	1

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68219-1

Client Sample ID: TRIP BLANK 4
Date Collected: 07/13/17 00:00
Date Received: 07/14/17 13:15

Lab Sample ID: 180-68219-58
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	ND		1.0	0.20	ug/L			07/19/17 17:22	1
1,2,4-Trimethylbenzene	ND		1.0	0.18	ug/L			07/19/17 17:22	1
1,3,5-Trimethylbenzene	ND		1.0	0.17	ug/L			07/19/17 17:22	1
Vinyl chloride	ND		1.0	0.17	ug/L			07/19/17 17:22	1
Xylenes, Total	ND		2.0	0.27	ug/L			07/19/17 17:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*72 - 120*		*07/19/17 17:22*	*1*
Dibromofluoromethane (Surr)	*92*		*77 - 127*		*07/19/17 17:22*	*1*
1,2-Dichloroethane-d4 (Surr)	*80*		*72 - 134*		*07/19/17 17:22*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*07/19/17 17:22*	*1*

Method: 8260C - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 180-217455/5
Matrix: Water
Analysis Batch: 217455

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		5.0	3.1	ug/L			07/19/17 12:04	1
Benzene	ND		1.0	0.18	ug/L			07/19/17 12:04	1
2-Butanone (MEK)	ND		5.0	2.6	ug/L			07/19/17 12:04	1
Carbon tetrachloride	ND		1.0	0.56	ug/L			07/19/17 12:04	1
Chlorobenzene	ND		1.0	0.15	ug/L			07/19/17 12:04	1
Chloroform	ND		1.0	0.27	ug/L			07/19/17 12:04	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			07/19/17 12:04	1
1,2-Dichlorobenzene	ND		1.0	0.23	ug/L			07/19/17 12:04	1
1,3-Dichlorobenzene	ND		1.0	0.21	ug/L			07/19/17 12:04	1
1,4-Dichlorobenzene	ND		1.0	0.24	ug/L			07/19/17 12:04	1
1,1-Dichloroethane	ND		1.0	0.34	ug/L			07/19/17 12:04	1
1,2-Dichloroethane	ND		1.0	0.24	ug/L			07/19/17 12:04	1
1,1-Dichloroethene	ND		1.0	0.32	ug/L			07/19/17 12:04	1
Ethylbenzene	ND		1.0	0.25	ug/L			07/19/17 12:04	1
Methylene Chloride	ND		1.0	0.94	ug/L			07/19/17 12:04	1
Methyl tert-butyl ether	ND		1.0	0.20	ug/L			07/19/17 12:04	1
n-Butylbenzene	ND		1.0	0.22	ug/L			07/19/17 12:04	1
N-Propylbenzene	ND		1.0	0.20	ug/L			07/19/17 12:04	1
sec-Butylbenzene	ND		1.0	0.22	ug/L			07/19/17 12:04	1
tert-Butylbenzene	ND		1.0	0.17	ug/L			07/19/17 12:04	1
Tetrachloroethene	ND		1.0	0.24	ug/L			07/19/17 12:04	1
Toluene	ND		1.0	0.16	ug/L			07/19/17 12:04	1
trans-1,2-Dichloroethene	ND		1.0	0.20	ug/L			07/19/17 12:04	1
1,1,1-Trichloroethane	ND		1.0	0.27	ug/L			07/19/17 12:04	1
Trichloroethene	ND		1.0	0.20	ug/L			07/19/17 12:04	1
1,2,4-Trimethylbenzene	ND		1.0	0.18	ug/L			07/19/17 12:04	1
1,3,5-Trimethylbenzene	ND		1.0	0.17	ug/L			07/19/17 12:04	1
Vinyl chloride	ND		1.0	0.17	ug/L			07/19/17 12:04	1
Xylenes, Total	ND		2.0	0.27	ug/L			07/19/17 12:04	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*72 - 120*		*07/19/17 12:04*	*1*
Dibromofluoromethane (Surr)	*93*		*77 - 127*		*07/19/17 12:04*	*1*
1,2-Dichloroethane-d4 (Surr)	*79*		*72 - 134*		*07/19/17 12:04*	*1*
Toluene-d8 (Surr)	*93*		*80 - 120*		*07/19/17 12:04*	*1*

Lab Sample ID: LCS 180-217455/3
Matrix: Water
Analysis Batch: 217455

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	20.0	16.4		ug/L		82	10 - 150
Benzene	10.0	9.04		ug/L		90	80 - 121
2-Butanone (MEK)	20.0	16.0		ug/L		80	41 - 150
Carbon tetrachloride	10.0	11.5		ug/L		115	59 - 145
Chlorobenzene	10.0	8.62		ug/L		86	80 - 120
Chloroform	10.0	9.01		ug/L		90	78 - 122
cis-1,2-Dichloroethene	10.0	9.30		ug/L		93	80 - 120

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 180-217455/3
Matrix: Water
Analysis Batch: 217455

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichlorobenzene	10.0	8.18		ug/L		82	80 - 120
1,3-Dichlorobenzene	10.0	8.10		ug/L		81	80 - 120
1,4-Dichlorobenzene	10.0	8.17		ug/L		82	80 - 120
1,1-Dichloroethane	10.0	8.66		ug/L		87	76 - 126
1,2-Dichloroethane	10.0	7.52		ug/L		75	72 - 126
1,1-Dichloroethene	10.0	8.93		ug/L		89	71 - 122
Ethylbenzene	10.0	8.85		ug/L		89	80 - 123
Methylene Chloride	10.0	8.57		ug/L		86	71 - 129
Methyl tert-butyl ether	10.0	8.42		ug/L		84	68 - 124
n-Butylbenzene	10.0	8.83		ug/L		88	75 - 120
N-Propylbenzene	10.0	7.80		ug/L		78	78 - 121
sec-Butylbenzene	10.0	8.56		ug/L		86	80 - 121
tert-Butylbenzene	10.0	8.09		ug/L		81	79 - 120
Tetrachloroethene	10.0	8.91		ug/L		89	80 - 122
Toluene	10.0	9.03		ug/L		90	80 - 125
trans-1,2-Dichloroethene	10.0	8.96		ug/L		90	80 - 121
1,1,1-Trichloroethane	10.0	10.3		ug/L		103	57 - 128
Trichloroethene	10.0	8.66		ug/L		87	79 - 120
1,2,4-Trimethylbenzene	10.0	8.18		ug/L		82	80 - 120
1,3,5-Trimethylbenzene	10.0	8.35		ug/L		84	80 - 122
Vinyl chloride	10.0	10.7		ug/L		107	61 - 138
Xylenes, Total	20.0	17.7		ug/L		88	80 - 123

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*94*		*72 - 120*
Dibromofluoromethane (Surr)	*93*		*77 - 127*
1,2-Dichloroethane-d4 (Surr)	*76*		*72 - 134*
Toluene-d8 (Surr)	*94*		*80 - 120*

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 180-217209/11
Matrix: Solid
Analysis Batch: 217209

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.020	0.0032	mg/Kg			07/17/17 10:30	1
Benzene	ND		0.0050	0.0020	mg/Kg			07/17/17 10:30	1
2-Butanone (MEK)	ND		0.0050	0.0029	mg/Kg			07/17/17 10:30	1
Carbon tetrachloride	ND		0.0050	0.0033	mg/Kg			07/17/17 10:30	1
Chlorobenzene	ND		0.0050	0.0016	mg/Kg			07/17/17 10:30	1
Chloroform	ND		0.0050	0.0021	mg/Kg			07/17/17 10:30	1
cis-1,2-Dichloroethene	ND		0.0050	0.0016	mg/Kg			07/17/17 10:30	1
1,2-Dichlorobenzene	ND		0.0050	0.0040	mg/Kg			07/17/17 10:30	1
1,3-Dichlorobenzene	ND		0.0050	0.0016	mg/Kg			07/17/17 10:30	1
1,4-Dichlorobenzene	ND		0.0050	0.0010	mg/Kg			07/17/17 10:30	1
1,1-Dichloroethane	ND		0.0050	0.0018	mg/Kg			07/17/17 10:30	1
1,2-Dichloroethane	ND		0.0050	0.0015	mg/Kg			07/17/17 10:30	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 180-217209/11
Matrix: Solid
Analysis Batch: 217209

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		0.0050	0.0029	mg/Kg			07/17/17 10:30	1
Ethylbenzene	ND		0.0050	0.0022	mg/Kg			07/17/17 10:30	1
Methylene Chloride	ND		0.0050	0.0024	mg/Kg			07/17/17 10:30	1
Methyl tert-butyl ether	ND		0.0050	0.0037	mg/Kg			07/17/17 10:30	1
n-Butylbenzene	ND		0.0050	0.0038	mg/Kg			07/17/17 10:30	1
N-Propylbenzene	ND		0.0050	0.0021	mg/Kg			07/17/17 10:30	1
sec-Butylbenzene	ND		0.0050	0.0024	mg/Kg			07/17/17 10:30	1
tert-Butylbenzene	ND		0.0050	0.0018	mg/Kg			07/17/17 10:30	1
Tetrachloroethene	ND		0.0050	0.0020	mg/Kg			07/17/17 10:30	1
Toluene	ND		0.0050	0.0017	mg/Kg			07/17/17 10:30	1
trans-1,2-Dichloroethene	ND		0.0050	0.0025	mg/Kg			07/17/17 10:30	1
1,1,1-Trichloroethane	ND		0.0050	0.0025	mg/Kg			07/17/17 10:30	1
Trichloroethene	ND		0.0050	0.0015	mg/Kg			07/17/17 10:30	1
1,2,4-Trimethylbenzene	ND		0.0050	0.0013	mg/Kg			07/17/17 10:30	1
1,3,5-Trimethylbenzene	ND		0.0050	0.0017	mg/Kg			07/17/17 10:30	1
Vinyl chloride	ND		0.0050	0.0037	mg/Kg			07/17/17 10:30	1
Xylenes, Total	ND		0.010	0.0043	mg/Kg			07/17/17 10:30	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*63 - 120*		*07/17/17 10:30*	*1*
Dibromofluoromethane (Surr)	*91*		*68 - 121*		*07/17/17 10:30*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*52 - 124*		*07/17/17 10:30*	*1*
Toluene-d8 (Surr)	*106*		*72 - 127*		*07/17/17 10:30*	*1*

Lab Sample ID: LCS 180-217209/4
Matrix: Solid
Analysis Batch: 217209

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0400	0.0410		mg/Kg		103	20 - 150
Benzene	0.0400	0.0372		mg/Kg		93	77 - 120
2-Butanone (MEK)	0.0400	0.0368		mg/Kg		92	35 - 149
Carbon tetrachloride	0.0400	0.0320		mg/Kg		80	69 - 122
Chlorobenzene	0.0400	0.0361		mg/Kg		90	79 - 120
Chloroform	0.0400	0.0353		mg/Kg		88	72 - 120
cis-1,2-Dichloroethene	0.0400	0.0351		mg/Kg		88	80 - 118
1,2-Dichlorobenzene	0.0400	0.0369		mg/Kg		92	71 - 124
1,3-Dichlorobenzene	0.0400	0.0365		mg/Kg		91	75 - 118
1,4-Dichlorobenzene	0.0400	0.0364		mg/Kg		91	77 - 116
1,1-Dichloroethane	0.0400	0.0384		mg/Kg		96	66 - 124
1,2-Dichloroethane	0.0400	0.0348		mg/Kg		87	61 - 127
1,1-Dichloroethene	0.0400	0.0355		mg/Kg		89	59 - 129
Ethylbenzene	0.0400	0.0356		mg/Kg		89	78 - 125
Methylene Chloride	0.0400	0.0330		mg/Kg		82	58 - 127
Methyl tert-butyl ether	0.0400	0.0339		mg/Kg		85	48 - 132
n-Butylbenzene	0.0400	0.0398		mg/Kg		100	59 - 145
N-Propylbenzene	0.0400	0.0360		mg/Kg		90	80 - 120
sec-Butylbenzene	0.0400	0.0387		mg/Kg		97	70 - 130

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 180-217209/4
Matrix: Solid
Analysis Batch: 217209

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
tert-Butylbenzene	0.0400	0.0375		mg/Kg		94	74 - 133
Tetrachloroethene	0.0400	0.0369		mg/Kg		92	78 - 129
Toluene	0.0400	0.0392		mg/Kg		98	78 - 124
trans-1,2-Dichloroethene	0.0400	0.0360		mg/Kg		90	77 - 121
1,1,1-Trichloroethane	0.0400	0.0347		mg/Kg		87	67 - 126
Trichloroethene	0.0400	0.0350		mg/Kg		87	76 - 119
1,2,4-Trimethylbenzene	0.0400	0.0380		mg/Kg		95	80 - 121
1,3,5-Trimethylbenzene	0.0400	0.0380		mg/Kg		95	68 - 133
Vinyl chloride	0.0400	0.0455		mg/Kg		114	63 - 124
Xylenes, Total	0.0800	0.0729		mg/Kg		91	83 - 126

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*63 - 120*
Dibromofluoromethane (Surr)	*93*		*68 - 121*
1,2-Dichloroethane-d4 (Surr)	*93*		*52 - 124*
Toluene-d8 (Surr)	*105*		*72 - 127*

Lab Sample ID: 180-68219-38 MS
Matrix: Solid
Analysis Batch: 217209

Client Sample ID: W8, S3, B 71317
Prep Type: Total/NA
Prep Batch: 217220

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	ND		0.0346	0.0403		mg/Kg	☼	116	20 - 150
Benzene	ND	F2	0.0346	0.0347		mg/Kg	☼	100	77 - 120
2-Butanone (MEK)	ND		0.0346	0.0374		mg/Kg	☼	108	35 - 149
Carbon tetrachloride	ND		0.0346	0.0293		mg/Kg	☼	85	69 - 122
Chlorobenzene	ND	F2	0.0346	0.0342		mg/Kg	☼	99	79 - 120
Chloroform	ND		0.0346	0.0330		mg/Kg	☼	95	72 - 120
cis-1,2-Dichloroethene	ND		0.0346	0.0324		mg/Kg	☼	94	80 - 118
1,2-Dichlorobenzene	ND		0.0346	0.0346		mg/Kg	☼	100	71 - 124
1,3-Dichlorobenzene	ND		0.0346	0.0338		mg/Kg	☼	98	75 - 118
1,4-Dichlorobenzene	ND	F2	0.0346	0.0339		mg/Kg	☼	98	77 - 116
1,1-Dichloroethane	ND		0.0346	0.0363		mg/Kg	☼	105	66 - 124
1,2-Dichloroethane	ND		0.0346	0.0337		mg/Kg	☼	97	61 - 127
1,1-Dichloroethene	ND		0.0346	0.0330		mg/Kg	☼	95	59 - 129
Ethylbenzene	ND	F2	0.0346	0.0332		mg/Kg	☼	96	78 - 125
Methylene Chloride	0.0021	J	0.0346	0.0314		mg/Kg	☼	91	58 - 127
Methyl tert-butyl ether	ND		0.0346	0.0333		mg/Kg	☼	96	48 - 132
n-Butylbenzene	ND		0.0346	0.0354		mg/Kg	☼	102	59 - 145
N-Propylbenzene	ND	F2	0.0346	0.0331		mg/Kg	☼	96	80 - 120
sec-Butylbenzene	ND		0.0346	0.0349		mg/Kg	☼	101	70 - 130
tert-Butylbenzene	ND		0.0346	0.0342		mg/Kg	☼	99	74 - 133
Tetrachloroethene	ND	F2	0.0346	0.0340		mg/Kg	☼	98	78 - 129
Toluene	ND	F2	0.0346	0.0362		mg/Kg	☼	105	78 - 124
trans-1,2-Dichloroethene	ND		0.0346	0.0335		mg/Kg	☼	97	77 - 121
1,1,1-Trichloroethane	ND		0.0346	0.0327		mg/Kg	☼	94	67 - 126
Trichloroethene	ND		0.0346	0.0328		mg/Kg	☼	95	76 - 119
1,2,4-Trimethylbenzene	ND	F2	0.0346	0.0349		mg/Kg	☼	101	80 - 121

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 180-68219-38 MS
Matrix: Solid
Analysis Batch: 217209

Client Sample ID: W8, S3, B 71317
Prep Type: Total/NA
Prep Batch: 217220

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,3,5-Trimethylbenzene	ND		0.0346	0.0348		mg/Kg	☼	101	68 - 133
Vinyl chloride	ND		0.0346	0.0424		mg/Kg	☼	122	63 - 124
Xylenes, Total	ND	F2	0.0692	0.0671		mg/Kg	☼	97	83 - 126

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*63 - 120*
Dibromofluoromethane (Surr)	*92*		*68 - 121*
1,2-Dichloroethane-d4 (Surr)	*94*		*52 - 124*
Toluene-d8 (Surr)	*102*		*72 - 127*

Lab Sample ID: 180-68219-38 MSD
Matrix: Solid
Analysis Batch: 217209

Client Sample ID: W8, S3, B 71317
Prep Type: Total/NA
Prep Batch: 217220

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	ND		0.0303	0.0353		mg/Kg	☼	117	20 - 150	13	40
Benzene	ND	F2	0.0303	0.0280	F2	mg/Kg	☼	92	77 - 120	21	20
2-Butanone (MEK)	ND		0.0303	0.0305		mg/Kg	☼	101	35 - 149	20	36
Carbon tetrachloride	ND		0.0303	0.0243		mg/Kg	☼	80	69 - 122	19	22
Chlorobenzene	ND	F2	0.0303	0.0272	F2	mg/Kg	☼	90	79 - 120	23	20
Chloroform	ND		0.0303	0.0266		mg/Kg	☼	88	72 - 120	22	25
cis-1,2-Dichloroethene	ND		0.0303	0.0267		mg/Kg	☼	88	80 - 118	20	20
1,2-Dichlorobenzene	ND		0.0303	0.0281		mg/Kg	☼	93	71 - 124	21	22
1,3-Dichlorobenzene	ND		0.0303	0.0276		mg/Kg	☼	91	75 - 118	20	20
1,4-Dichlorobenzene	ND	F2	0.0303	0.0275	F2	mg/Kg	☼	91	77 - 116	21	20
1,1-Dichloroethane	ND		0.0303	0.0295		mg/Kg	☼	97	66 - 124	20	23
1,2-Dichloroethane	ND		0.0303	0.0275		mg/Kg	☼	91	61 - 127	20	23
1,1-Dichloroethene	ND		0.0303	0.0270		mg/Kg	☼	89	59 - 129	20	25
Ethylbenzene	ND	F2	0.0303	0.0266	F2	mg/Kg	☼	88	78 - 125	22	21
Methylene Chloride	0.0021	J	0.0303	0.0260		mg/Kg	☼	86	58 - 127	19	28
Methyl tert-butyl ether	ND		0.0303	0.0274		mg/Kg	☼	90	48 - 132	19	36
n-Butylbenzene	ND		0.0303	0.0295		mg/Kg	☼	97	59 - 145	18	24
N-Propylbenzene	ND	F2	0.0303	0.0269	F2	mg/Kg	☼	89	80 - 120	21	20
sec-Butylbenzene	ND		0.0303	0.0288		mg/Kg	☼	95	70 - 130	19	21
tert-Butylbenzene	ND		0.0303	0.0279		mg/Kg	☼	92	74 - 133	20	22
Tetrachloroethene	ND	F2	0.0303	0.0272	F2	mg/Kg	☼	90	78 - 129	22	20
Toluene	ND	F2	0.0303	0.0286	F2	mg/Kg	☼	94	78 - 124	23	21
trans-1,2-Dichloroethene	ND		0.0303	0.0275		mg/Kg	☼	91	77 - 121	20	20
1,1,1-Trichloroethane	ND		0.0303	0.0273		mg/Kg	☼	90	67 - 126	18	31
Trichloroethene	ND		0.0303	0.0268		mg/Kg	☼	88	76 - 119	20	21
1,2,4-Trimethylbenzene	ND	F2	0.0303	0.0284	F2	mg/Kg	☼	94	80 - 121	21	20
1,3,5-Trimethylbenzene	ND		0.0303	0.0283		mg/Kg	☼	93	68 - 133	21	21
Vinyl chloride	ND		0.0303	0.0347		mg/Kg	☼	114	63 - 124	20	27
Xylenes, Total	ND	F2	0.0607	0.0535	F2	mg/Kg	☼	88	83 - 126	23	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*63 - 120*

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 180-68219-38 MSD
Matrix: Solid
Analysis Batch: 217209

Client Sample ID: W8, S3, B 71317
Prep Type: Total/NA
Prep Batch: 217220

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Dibromofluoromethane (Surr)	*96*		*68 - 121*
1,2-Dichloroethane-d4 (Surr)	*98*		*52 - 124*
Toluene-d8 (Surr)	*102*		*72 - 127*

Lab Sample ID: MB 180-217322/9
Matrix: Solid
Analysis Batch: 217322

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.020	0.0032	mg/Kg			07/18/17 08:28	1
Benzene	ND		0.0050	0.0020	mg/Kg			07/18/17 08:28	1
2-Butanone (MEK)	ND		0.0050	0.0029	mg/Kg			07/18/17 08:28	1
Carbon tetrachloride	ND		0.0050	0.0033	mg/Kg			07/18/17 08:28	1
Chlorobenzene	ND		0.0050	0.0016	mg/Kg			07/18/17 08:28	1
Chloroform	ND		0.0050	0.0021	mg/Kg			07/18/17 08:28	1
cis-1,2-Dichloroethene	ND		0.0050	0.0016	mg/Kg			07/18/17 08:28	1
1,2-Dichlorobenzene	ND		0.0050	0.0040	mg/Kg			07/18/17 08:28	1
1,3-Dichlorobenzene	ND		0.0050	0.0016	mg/Kg			07/18/17 08:28	1
1,4-Dichlorobenzene	ND		0.0050	0.0010	mg/Kg			07/18/17 08:28	1
1,1-Dichloroethane	ND		0.0050	0.0018	mg/Kg			07/18/17 08:28	1
1,2-Dichloroethane	ND		0.0050	0.0015	mg/Kg			07/18/17 08:28	1
1,1-Dichloroethene	ND		0.0050	0.0029	mg/Kg			07/18/17 08:28	1
Ethylbenzene	ND		0.0050	0.0022	mg/Kg			07/18/17 08:28	1
Methylene Chloride	ND		0.0050	0.0024	mg/Kg			07/18/17 08:28	1
Methyl tert-butyl ether	ND		0.0050	0.0037	mg/Kg			07/18/17 08:28	1
n-Butylbenzene	ND		0.0050	0.0038	mg/Kg			07/18/17 08:28	1
N-Propylbenzene	ND		0.0050	0.0021	mg/Kg			07/18/17 08:28	1
sec-Butylbenzene	ND		0.0050	0.0024	mg/Kg			07/18/17 08:28	1
tert-Butylbenzene	ND		0.0050	0.0018	mg/Kg			07/18/17 08:28	1
Tetrachloroethene	ND		0.0050	0.0020	mg/Kg			07/18/17 08:28	1
Toluene	ND		0.0050	0.0017	mg/Kg			07/18/17 08:28	1
trans-1,2-Dichloroethene	ND		0.0050	0.0025	mg/Kg			07/18/17 08:28	1
1,1,1-Trichloroethane	ND		0.0050	0.0025	mg/Kg			07/18/17 08:28	1
Trichloroethene	ND		0.0050	0.0015	mg/Kg			07/18/17 08:28	1
1,2,4-Trimethylbenzene	ND		0.0050	0.0013	mg/Kg			07/18/17 08:28	1
1,3,5-Trimethylbenzene	ND		0.0050	0.0017	mg/Kg			07/18/17 08:28	1
Vinyl chloride	ND		0.0050	0.0037	mg/Kg			07/18/17 08:28	1
Xylenes, Total	ND		0.010	0.0043	mg/Kg			07/18/17 08:28	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*95*		*63 - 120*		*07/18/17 08:28*	*1*
Dibromofluoromethane (Surr)	*90*		*68 - 121*		*07/18/17 08:28*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*52 - 124*		*07/18/17 08:28*	*1*
Toluene-d8 (Surr)	*102*		*72 - 127*		*07/18/17 08:28*	*1*

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 180-217322/4
Matrix: Solid
Analysis Batch: 217322

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0400	0.0444		mg/Kg		111	20 - 150
Benzene	0.0400	0.0397		mg/Kg		99	77 - 120
2-Butanone (MEK)	0.0400	0.0404		mg/Kg		101	35 - 149
Carbon tetrachloride	0.0400	0.0349		mg/Kg		87	69 - 122
Chlorobenzene	0.0400	0.0383		mg/Kg		96	79 - 120
Chloroform	0.0400	0.0376		mg/Kg		94	72 - 120
cis-1,2-Dichloroethene	0.0400	0.0377		mg/Kg		94	80 - 118
1,2-Dichlorobenzene	0.0400	0.0394		mg/Kg		98	71 - 124
1,3-Dichlorobenzene	0.0400	0.0401		mg/Kg		100	75 - 118
1,4-Dichlorobenzene	0.0400	0.0395		mg/Kg		99	77 - 116
1,1-Dichloroethane	0.0400	0.0409		mg/Kg		102	66 - 124
1,2-Dichloroethane	0.0400	0.0365		mg/Kg		91	61 - 127
1,1-Dichloroethene	0.0400	0.0377		mg/Kg		94	59 - 129
Ethylbenzene	0.0400	0.0388		mg/Kg		97	78 - 125
Methylene Chloride	0.0400	0.0352		mg/Kg		88	58 - 127
Methyl tert-butyl ether	0.0400	0.0371		mg/Kg		93	48 - 132
n-Butylbenzene	0.0400	0.0426		mg/Kg		107	59 - 145
N-Propylbenzene	0.0400	0.0386		mg/Kg		97	80 - 120
sec-Butylbenzene	0.0400	0.0421		mg/Kg		105	70 - 130
tert-Butylbenzene	0.0400	0.0403		mg/Kg		101	74 - 133
Tetrachloroethene	0.0400	0.0405		mg/Kg		101	78 - 129
Toluene	0.0400	0.0413		mg/Kg		103	78 - 124
trans-1,2-Dichloroethene	0.0400	0.0385		mg/Kg		96	77 - 121
1,1,1-Trichloroethane	0.0400	0.0393		mg/Kg		98	67 - 126
Trichloroethene	0.0400	0.0380		mg/Kg		95	76 - 119
1,2,4-Trimethylbenzene	0.0400	0.0410		mg/Kg		102	80 - 121
1,3,5-Trimethylbenzene	0.0400	0.0411		mg/Kg		103	68 - 133
Vinyl chloride	0.0400	0.0477		mg/Kg		119	63 - 124
Xylenes, Total	0.0800	0.0777		mg/Kg		97	83 - 126

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*63 - 120*
Dibromofluoromethane (Surr)	*96*		*68 - 121*
1,2-Dichloroethane-d4 (Surr)	*95*		*52 - 124*
Toluene-d8 (Surr)	*106*		*72 - 127*

Lab Sample ID: MB 180-217471/9
Matrix: Solid
Analysis Batch: 217471

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.020	0.0032	mg/Kg			07/19/17 08:29	1
Benzene	ND		0.0050	0.0020	mg/Kg			07/19/17 08:29	1
2-Butanone (MEK)	ND		0.0050	0.0029	mg/Kg			07/19/17 08:29	1
Carbon tetrachloride	ND		0.0050	0.0033	mg/Kg			07/19/17 08:29	1
Chlorobenzene	ND		0.0050	0.0016	mg/Kg			07/19/17 08:29	1
Chloroform	ND		0.0050	0.0021	mg/Kg			07/19/17 08:29	1
cis-1,2-Dichloroethene	ND		0.0050	0.0016	mg/Kg			07/19/17 08:29	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 180-217471/9
Matrix: Solid
Analysis Batch: 217471

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		0.0050	0.0040	mg/Kg			07/19/17 08:29	1
1,3-Dichlorobenzene	ND		0.0050	0.0016	mg/Kg			07/19/17 08:29	1
1,4-Dichlorobenzene	ND		0.0050	0.0010	mg/Kg			07/19/17 08:29	1
1,1-Dichloroethane	ND		0.0050	0.0018	mg/Kg			07/19/17 08:29	1
1,2-Dichloroethane	ND		0.0050	0.0015	mg/Kg			07/19/17 08:29	1
1,1-Dichloroethene	ND		0.0050	0.0029	mg/Kg			07/19/17 08:29	1
Ethylbenzene	ND		0.0050	0.0022	mg/Kg			07/19/17 08:29	1
Methylene Chloride	ND		0.0050	0.0024	mg/Kg			07/19/17 08:29	1
Methyl tert-butyl ether	ND		0.0050	0.0037	mg/Kg			07/19/17 08:29	1
n-Butylbenzene	ND		0.0050	0.0038	mg/Kg			07/19/17 08:29	1
N-Propylbenzene	ND		0.0050	0.0021	mg/Kg			07/19/17 08:29	1
sec-Butylbenzene	ND		0.0050	0.0024	mg/Kg			07/19/17 08:29	1
tert-Butylbenzene	ND		0.0050	0.0018	mg/Kg			07/19/17 08:29	1
Tetrachloroethene	ND		0.0050	0.0020	mg/Kg			07/19/17 08:29	1
Toluene	ND		0.0050	0.0017	mg/Kg			07/19/17 08:29	1
trans-1,2-Dichloroethene	ND		0.0050	0.0025	mg/Kg			07/19/17 08:29	1
1,1,1-Trichloroethane	ND		0.0050	0.0025	mg/Kg			07/19/17 08:29	1
Trichloroethene	ND		0.0050	0.0015	mg/Kg			07/19/17 08:29	1
1,2,4-Trimethylbenzene	ND		0.0050	0.0013	mg/Kg			07/19/17 08:29	1
1,3,5-Trimethylbenzene	ND		0.0050	0.0017	mg/Kg			07/19/17 08:29	1
Vinyl chloride	ND		0.0050	0.0037	mg/Kg			07/19/17 08:29	1
Xylenes, Total	ND		0.010	0.0043	mg/Kg			07/19/17 08:29	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*63 - 120*		*07/19/17 08:29*	*1*
Dibromofluoromethane (Surr)	*93*		*68 - 121*		*07/19/17 08:29*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*52 - 124*		*07/19/17 08:29*	*1*
Toluene-d8 (Surr)	*106*		*72 - 127*		*07/19/17 08:29*	*1*

Lab Sample ID: LCS 180-217471/4
Matrix: Solid
Analysis Batch: 217471

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0400	0.0429		mg/Kg		107	20 - 150
Benzene	0.0400	0.0395		mg/Kg		99	77 - 120
2-Butanone (MEK)	0.0400	0.0387		mg/Kg		97	35 - 149
Carbon tetrachloride	0.0400	0.0344		mg/Kg		86	69 - 122
Chlorobenzene	0.0400	0.0380		mg/Kg		95	79 - 120
Chloroform	0.0400	0.0373		mg/Kg		93	72 - 120
cis-1,2-Dichloroethene	0.0400	0.0382		mg/Kg		96	80 - 118
1,2-Dichlorobenzene	0.0400	0.0390		mg/Kg		97	71 - 124
1,3-Dichlorobenzene	0.0400	0.0393		mg/Kg		98	75 - 118
1,4-Dichlorobenzene	0.0400	0.0391		mg/Kg		98	77 - 116
1,1-Dichloroethane	0.0400	0.0401		mg/Kg		100	66 - 124
1,2-Dichloroethane	0.0400	0.0357		mg/Kg		89	61 - 127
1,1-Dichloroethene	0.0400	0.0380		mg/Kg		95	59 - 129
Ethylbenzene	0.0400	0.0383		mg/Kg		96	78 - 125

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 180-217471/4
Matrix: Solid
Analysis Batch: 217471

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methylene Chloride	0.0400	0.0358		mg/Kg		89	58 - 127
Methyl tert-butyl ether	0.0400	0.0363		mg/Kg		91	48 - 132
n-Butylbenzene	0.0400	0.0403		mg/Kg		101	59 - 145
N-Propylbenzene	0.0400	0.0380		mg/Kg		95	80 - 120
sec-Butylbenzene	0.0400	0.0403		mg/Kg		101	70 - 130
tert-Butylbenzene	0.0400	0.0399		mg/Kg		100	74 - 133
Tetrachloroethene	0.0400	0.0418		mg/Kg		104	78 - 129
Toluene	0.0400	0.0409		mg/Kg		102	78 - 124
trans-1,2-Dichloroethene	0.0400	0.0389		mg/Kg		97	77 - 121
1,1,1-Trichloroethane	0.0400	0.0378		mg/Kg		94	67 - 126
Trichloroethene	0.0400	0.0382		mg/Kg		95	76 - 119
1,2,4-Trimethylbenzene	0.0400	0.0390		mg/Kg		97	80 - 121
1,3,5-Trimethylbenzene	0.0400	0.0397		mg/Kg		99	68 - 133
Vinyl chloride	0.0400	0.0459		mg/Kg		115	63 - 124
Xylenes, Total	0.0800	0.0774		mg/Kg		97	83 - 126

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*63 - 120*
Dibromofluoromethane (Surr)	*96*		*68 - 121*
1,2-Dichloroethane-d4 (Surr)	*93*		*52 - 124*
Toluene-d8 (Surr)	*103*		*72 - 127*

Lab Sample ID: 180-68219-1 MS
Matrix: Solid
Analysis Batch: 217471

Client Sample ID: W6, S1, A 071317
Prep Type: Total/NA
Prep Batch: 217488

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	ND		0.0371	0.0376		mg/Kg	☼	102	20 - 150
Benzene	ND		0.0371	0.0345		mg/Kg	☼	93	77 - 120
2-Butanone (MEK)	ND		0.0371	0.0352		mg/Kg	☼	95	35 - 149
Carbon tetrachloride	ND		0.0371	0.0298		mg/Kg	☼	81	69 - 122
Chlorobenzene	ND		0.0371	0.0332		mg/Kg	☼	90	79 - 120
Chloroform	ND		0.0371	0.0324		mg/Kg	☼	87	72 - 120
cis-1,2-Dichloroethene	ND		0.0371	0.0331		mg/Kg	☼	89	80 - 118
1,2-Dichlorobenzene	ND		0.0371	0.0342		mg/Kg	☼	92	71 - 124
1,3-Dichlorobenzene	ND		0.0371	0.0342		mg/Kg	☼	92	75 - 118
1,4-Dichlorobenzene	ND		0.0371	0.0342		mg/Kg	☼	92	77 - 116
1,1-Dichloroethane	ND		0.0371	0.0351		mg/Kg	☼	95	66 - 124
1,2-Dichloroethane	ND		0.0371	0.0313		mg/Kg	☼	85	61 - 127
1,1-Dichloroethene	ND		0.0371	0.0338		mg/Kg	☼	91	59 - 129
Ethylbenzene	ND		0.0371	0.0332		mg/Kg	☼	90	78 - 125
Methylene Chloride	ND		0.0371	0.0311		mg/Kg	☼	84	58 - 127
Methyl tert-butyl ether	ND		0.0371	0.0322		mg/Kg	☼	87	48 - 132
n-Butylbenzene	ND		0.0371	0.0354		mg/Kg	☼	96	59 - 145
N-Propylbenzene	ND		0.0371	0.0327		mg/Kg	☼	88	80 - 120
sec-Butylbenzene	ND		0.0371	0.0354		mg/Kg	☼	96	70 - 130
tert-Butylbenzene	ND		0.0371	0.0342		mg/Kg	☼	92	74 - 133
Tetrachloroethene	ND		0.0371	0.0361		mg/Kg	☼	97	78 - 129

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 180-68219-1 MS
Matrix: Solid
Analysis Batch: 217471

Client Sample ID: W6, S1, A 071317
Prep Type: Total/NA
Prep Batch: 217488

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Toluene	ND		0.0371	0.0358		mg/Kg	☼	96	78 - 124
trans-1,2-Dichloroethene	ND		0.0371	0.0340		mg/Kg	☼	92	77 - 121
1,1,1-Trichloroethane	ND		0.0371	0.0324		mg/Kg	☼	88	67 - 126
Trichloroethene	ND		0.0371	0.0336		mg/Kg	☼	91	76 - 119
1,2,4-Trimethylbenzene	ND		0.0371	0.0344		mg/Kg	☼	93	80 - 121
1,3,5-Trimethylbenzene	ND		0.0371	0.0343		mg/Kg	☼	93	68 - 133
Vinyl chloride	ND		0.0371	0.0396		mg/Kg	☼	107	63 - 124
Xylenes, Total	ND		0.0741	0.0668		mg/Kg	☼	90	83 - 126

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*63 - 120*
Dibromofluoromethane (Surr)	*98*		*68 - 121*
1,2-Dichloroethane-d4 (Surr)	*93*		*52 - 124*
Toluene-d8 (Surr)	*106*		*72 - 127*

Lab Sample ID: 180-68219-1 MSD
Matrix: Solid
Analysis Batch: 217471

Client Sample ID: W6, S1, A 071317
Prep Type: Total/NA
Prep Batch: 217488

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	ND		0.0360	0.0350		mg/Kg	☼	97	20 - 150	7	40
Benzene	ND		0.0360	0.0331		mg/Kg	☼	92	77 - 120	4	20
2-Butanone (MEK)	ND		0.0360	0.0334		mg/Kg	☼	93	35 - 149	5	36
Carbon tetrachloride	ND		0.0360	0.0280		mg/Kg	☼	78	69 - 122	6	22
Chlorobenzene	ND		0.0360	0.0327		mg/Kg	☼	91	79 - 120	1	20
Chloroform	ND		0.0360	0.0313		mg/Kg	☼	87	72 - 120	3	25
cis-1,2-Dichloroethene	ND		0.0360	0.0320		mg/Kg	☼	89	80 - 118	3	20
1,2-Dichlorobenzene	ND		0.0360	0.0336		mg/Kg	☼	93	71 - 124	2	22
1,3-Dichlorobenzene	ND		0.0360	0.0335		mg/Kg	☼	93	75 - 118	2	20
1,4-Dichlorobenzene	ND		0.0360	0.0334		mg/Kg	☼	93	77 - 116	3	20
1,1-Dichloroethane	ND		0.0360	0.0333		mg/Kg	☼	93	66 - 124	5	23
1,2-Dichloroethane	ND		0.0360	0.0299		mg/Kg	☼	83	61 - 127	5	23
1,1-Dichloroethene	ND		0.0360	0.0324		mg/Kg	☼	90	59 - 129	4	25
Ethylbenzene	ND		0.0360	0.0326		mg/Kg	☼	91	78 - 125	2	21
Methylene Chloride	ND		0.0360	0.0300		mg/Kg	☼	83	58 - 127	4	28
Methyl tert-butyl ether	ND		0.0360	0.0305		mg/Kg	☼	85	48 - 132	5	36
n-Butylbenzene	ND		0.0360	0.0351		mg/Kg	☼	98	59 - 145	1	24
N-Propylbenzene	ND		0.0360	0.0318		mg/Kg	☼	88	80 - 120	3	20
sec-Butylbenzene	ND		0.0360	0.0346		mg/Kg	☼	96	70 - 130	2	21
tert-Butylbenzene	ND		0.0360	0.0334		mg/Kg	☼	93	74 - 133	2	22
Tetrachloroethene	ND		0.0360	0.0347		mg/Kg	☼	96	78 - 129	4	20
Toluene	ND		0.0360	0.0347		mg/Kg	☼	96	78 - 124	3	21
trans-1,2-Dichloroethene	ND		0.0360	0.0324		mg/Kg	☼	90	77 - 121	5	20
1,1,1-Trichloroethane	ND		0.0360	0.0312		mg/Kg	☼	87	67 - 126	4	31
Trichloroethene	ND		0.0360	0.0323		mg/Kg	☼	90	76 - 119	4	21
1,2,4-Trimethylbenzene	ND		0.0360	0.0336		mg/Kg	☼	93	80 - 121	2	20
1,3,5-Trimethylbenzene	ND		0.0360	0.0336		mg/Kg	☼	93	68 - 133	2	21
Vinyl chloride	ND		0.0360	0.0398		mg/Kg	☼	111	63 - 124	1	27

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 180-68219-1 MSD
Matrix: Solid
Analysis Batch: 217471

Client Sample ID: W6, S1, A 071317
Prep Type: Total/NA
Prep Batch: 217488

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Xylenes, Total	ND		0.0720	0.0659		mg/Kg	☼	92	83 - 126	1	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*95*		*63 - 120*
Dibromofluoromethane (Surr)	*91*		*68 - 121*
1,2-Dichloroethane-d4 (Surr)	*88*		*52 - 124*
Toluene-d8 (Surr)	*101*		*72 - 127*

Lab Sample ID: MB 180-217610/9
Matrix: Solid
Analysis Batch: 217610

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.020	0.0032	mg/Kg			07/20/17 09:16	1
Benzene	ND		0.0050	0.0020	mg/Kg			07/20/17 09:16	1
2-Butanone (MEK)	ND		0.0050	0.0029	mg/Kg			07/20/17 09:16	1
Carbon tetrachloride	ND		0.0050	0.0033	mg/Kg			07/20/17 09:16	1
Chlorobenzene	ND		0.0050	0.0016	mg/Kg			07/20/17 09:16	1
Chloroform	ND		0.0050	0.0021	mg/Kg			07/20/17 09:16	1
cis-1,2-Dichloroethene	ND		0.0050	0.0016	mg/Kg			07/20/17 09:16	1
1,2-Dichlorobenzene	ND		0.0050	0.0040	mg/Kg			07/20/17 09:16	1
1,3-Dichlorobenzene	ND		0.0050	0.0016	mg/Kg			07/20/17 09:16	1
1,4-Dichlorobenzene	ND		0.0050	0.0010	mg/Kg			07/20/17 09:16	1
1,1-Dichloroethane	ND		0.0050	0.0018	mg/Kg			07/20/17 09:16	1
1,2-Dichloroethane	ND		0.0050	0.0015	mg/Kg			07/20/17 09:16	1
1,1-Dichloroethene	ND		0.0050	0.0029	mg/Kg			07/20/17 09:16	1
Ethylbenzene	ND		0.0050	0.0022	mg/Kg			07/20/17 09:16	1
Methylene Chloride	ND		0.0050	0.0024	mg/Kg			07/20/17 09:16	1
Methyl tert-butyl ether	ND		0.0050	0.0037	mg/Kg			07/20/17 09:16	1
n-Butylbenzene	ND		0.0050	0.0038	mg/Kg			07/20/17 09:16	1
N-Propylbenzene	ND		0.0050	0.0021	mg/Kg			07/20/17 09:16	1
sec-Butylbenzene	ND		0.0050	0.0024	mg/Kg			07/20/17 09:16	1
tert-Butylbenzene	ND		0.0050	0.0018	mg/Kg			07/20/17 09:16	1
Tetrachloroethene	ND		0.0050	0.0020	mg/Kg			07/20/17 09:16	1
Toluene	ND		0.0050	0.0017	mg/Kg			07/20/17 09:16	1
trans-1,2-Dichloroethene	ND		0.0050	0.0025	mg/Kg			07/20/17 09:16	1
1,1,1-Trichloroethane	ND		0.0050	0.0025	mg/Kg			07/20/17 09:16	1
Trichloroethene	ND		0.0050	0.0015	mg/Kg			07/20/17 09:16	1
1,2,4-Trimethylbenzene	ND		0.0050	0.0013	mg/Kg			07/20/17 09:16	1
1,3,5-Trimethylbenzene	ND		0.0050	0.0017	mg/Kg			07/20/17 09:16	1
Vinyl chloride	ND		0.0050	0.0037	mg/Kg			07/20/17 09:16	1
Xylenes, Total	ND		0.010	0.0043	mg/Kg			07/20/17 09:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*63 - 120*		*07/20/17 09:16*	*1*
Dibromofluoromethane (Surr)	*94*		*68 - 121*		*07/20/17 09:16*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*52 - 124*		*07/20/17 09:16*	*1*

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 180-217610/9
Matrix: Solid
Analysis Batch: 217610

Client Sample ID: Method Blank
Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	109		72 - 127		07/20/17 09:16	1

Lab Sample ID: LCS 180-217610/4
Matrix: Solid
Analysis Batch: 217610

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0400	0.0360		mg/Kg		90	20 - 150
Benzene	0.0400	0.0367		mg/Kg		92	77 - 120
2-Butanone (MEK)	0.0400	0.0382		mg/Kg		95	35 - 149
Carbon tetrachloride	0.0400	0.0309		mg/Kg		77	69 - 122
Chlorobenzene	0.0400	0.0356		mg/Kg		89	79 - 120
Chloroform	0.0400	0.0347		mg/Kg		87	72 - 120
cis-1,2-Dichloroethene	0.0400	0.0349		mg/Kg		87	80 - 118
1,2-Dichlorobenzene	0.0400	0.0363		mg/Kg		91	71 - 124
1,3-Dichlorobenzene	0.0400	0.0359		mg/Kg		90	75 - 118
1,4-Dichlorobenzene	0.0400	0.0363		mg/Kg		91	77 - 116
1,1-Dichloroethane	0.0400	0.0381		mg/Kg		95	66 - 124
1,2-Dichloroethane	0.0400	0.0343		mg/Kg		86	61 - 127
1,1-Dichloroethene	0.0400	0.0354		mg/Kg		89	59 - 129
Ethylbenzene	0.0400	0.0359		mg/Kg		90	78 - 125
Methylene Chloride	0.0400	0.0331		mg/Kg		83	58 - 127
Methyl tert-butyl ether	0.0400	0.0349		mg/Kg		87	48 - 132
n-Butylbenzene	0.0400	0.0386		mg/Kg		97	59 - 145
N-Propylbenzene	0.0400	0.0346		mg/Kg		87	80 - 120
sec-Butylbenzene	0.0400	0.0377		mg/Kg		94	70 - 130
tert-Butylbenzene	0.0400	0.0363		mg/Kg		91	74 - 133
Tetrachloroethene	0.0400	0.0368		mg/Kg		92	78 - 129
Toluene	0.0400	0.0381		mg/Kg		95	78 - 124
trans-1,2-Dichloroethene	0.0400	0.0360		mg/Kg		90	77 - 121
1,1,1-Trichloroethane	0.0400	0.0348		mg/Kg		87	67 - 126
Trichloroethene	0.0400	0.0350		mg/Kg		87	76 - 119
1,2,4-Trimethylbenzene	0.0400	0.0369		mg/Kg		92	80 - 121
1,3,5-Trimethylbenzene	0.0400	0.0369		mg/Kg		92	68 - 133
Vinyl chloride	0.0400	0.0424		mg/Kg		106	63 - 124
Xylenes, Total	0.0800	0.0713		mg/Kg		89	83 - 126

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		63 - 120
Dibromofluoromethane (Surr)	94		68 - 121
1,2-Dichloroethane-d4 (Surr)	93		52 - 124
Toluene-d8 (Surr)	103		72 - 127

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 180-217610/5
Matrix: Solid
Analysis Batch: 217610

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	0.0400	0.0363		mg/Kg		91	20 - 150	1	40
Benzene	0.0400	0.0397		mg/Kg		99	77 - 120	8	20
2-Butanone (MEK)	0.0400	0.0387		mg/Kg		97	35 - 149	1	36
Carbon tetrachloride	0.0400	0.0347		mg/Kg		87	69 - 122	12	22
Chlorobenzene	0.0400	0.0387		mg/Kg		97	79 - 120	8	20
Chloroform	0.0400	0.0381		mg/Kg		95	72 - 120	9	25
cis-1,2-Dichloroethene	0.0400	0.0379		mg/Kg		95	80 - 118	8	20
1,2-Dichlorobenzene	0.0400	0.0396		mg/Kg		99	71 - 124	9	22
1,3-Dichlorobenzene	0.0400	0.0390		mg/Kg		98	75 - 118	8	20
1,4-Dichlorobenzene	0.0400	0.0391		mg/Kg		98	77 - 116	7	20
1,1-Dichloroethane	0.0400	0.0408		mg/Kg		102	66 - 124	7	23
1,2-Dichloroethane	0.0400	0.0375		mg/Kg		94	61 - 127	9	23
1,1-Dichloroethene	0.0400	0.0383		mg/Kg		96	59 - 129	8	25
Ethylbenzene	0.0400	0.0391		mg/Kg		98	78 - 125	8	21
Methylene Chloride	0.0400	0.0364		mg/Kg		91	58 - 127	10	28
Methyl tert-butyl ether	0.0400	0.0371		mg/Kg		93	48 - 132	6	36
n-Butylbenzene	0.0400	0.0419		mg/Kg		105	59 - 145	8	24
N-Propylbenzene	0.0400	0.0383		mg/Kg		96	80 - 120	10	20
sec-Butylbenzene	0.0400	0.0412		mg/Kg		103	70 - 130	9	21
tert-Butylbenzene	0.0400	0.0391		mg/Kg		98	74 - 133	8	22
Tetrachloroethene	0.0400	0.0395		mg/Kg		99	78 - 129	7	20
Toluene	0.0400	0.0404		mg/Kg		101	78 - 124	6	21
trans-1,2-Dichloroethene	0.0400	0.0385		mg/Kg		96	77 - 121	7	20
1,1,1-Trichloroethane	0.0400	0.0385		mg/Kg		96	67 - 126	10	31
Trichloroethene	0.0400	0.0382		mg/Kg		96	76 - 119	9	21
1,2,4-Trimethylbenzene	0.0400	0.0401		mg/Kg		100	80 - 121	8	20
1,3,5-Trimethylbenzene	0.0400	0.0399		mg/Kg		100	68 - 133	8	21
Vinyl chloride	0.0400	0.0461		mg/Kg		115	63 - 124	8	27
Xylenes, Total	0.0800	0.0773		mg/Kg		97	83 - 126	8	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*63 - 120*
Dibromofluoromethane (Surr)	*97*		*68 - 121*
1,2-Dichloroethane-d4 (Surr)	*98*		*52 - 124*
Toluene-d8 (Surr)	*106*		*72 - 127*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Lab Sample ID: MB 180-217139/1-A
Matrix: Solid
Analysis Batch: 217155

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 217139

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0067	0.0022	mg/Kg		07/15/17 04:42	07/15/17 10:59	1
Acenaphthylene	ND		0.0067	0.0023	mg/Kg		07/15/17 04:42	07/15/17 10:59	1
Anthracene	ND		0.0067	0.0025	mg/Kg		07/15/17 04:42	07/15/17 10:59	1
Benzo[a]anthracene	ND		0.0067	0.0026	mg/Kg		07/15/17 04:42	07/15/17 10:59	1

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: MB 180-217139/1-A
Matrix: Solid
Analysis Batch: 217155

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 217139

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	ND		0.0067	0.0028	mg/Kg		07/15/17 04:42	07/15/17 10:59	1
Benzo[b]fluoranthene	ND		0.0067	0.0029	mg/Kg		07/15/17 04:42	07/15/17 10:59	1
Benzo[g,h,i]perylene	ND		0.0067	0.0029	mg/Kg		07/15/17 04:42	07/15/17 10:59	1
Benzo[k]fluoranthene	ND		0.0067	0.0023	mg/Kg		07/15/17 04:42	07/15/17 10:59	1
Chrysene	ND		0.0067	0.0026	mg/Kg		07/15/17 04:42	07/15/17 10:59	1
Dibenz(a,h)anthracene	ND		0.0067	0.0028	mg/Kg		07/15/17 04:42	07/15/17 10:59	1
Dibenzofuran	ND		0.033	0.0027	mg/Kg		07/15/17 04:42	07/15/17 10:59	1
2,4-Dinitrotoluene	ND		0.033	0.0044	mg/Kg		07/15/17 04:42	07/15/17 10:59	1
1,4-Dioxane	ND		0.067	0.0050	mg/Kg		07/15/17 04:42	07/15/17 10:59	1
Fluoranthene	ND		0.0067	0.0026	mg/Kg		07/15/17 04:42	07/15/17 10:59	1
Fluorene	ND		0.0067	0.0024	mg/Kg		07/15/17 04:42	07/15/17 10:59	1
Hexachlorobenzene	ND		0.0067	0.0027	mg/Kg		07/15/17 04:42	07/15/17 10:59	1
Hexachlorobutadiene	ND		0.0067	0.0021	mg/Kg		07/15/17 04:42	07/15/17 10:59	1
Hexachloroethane	ND		0.033	0.0024	mg/Kg		07/15/17 04:42	07/15/17 10:59	1
Indeno[1,2,3-cd]pyrene	ND		0.0067	0.0026	mg/Kg		07/15/17 04:42	07/15/17 10:59	1
2-Methylphenol	ND		0.033	0.0029	mg/Kg		07/15/17 04:42	07/15/17 10:59	1
Methylphenol, 3 & 4	ND		0.033	0.0030	mg/Kg		07/15/17 04:42	07/15/17 10:59	1
Naphthalene	ND		0.0067	0.0024	mg/Kg		07/15/17 04:42	07/15/17 10:59	1
Nitrobenzene	ND		0.067	0.0025	mg/Kg		07/15/17 04:42	07/15/17 10:59	1
Pentachlorophenol	ND		0.17	0.063	mg/Kg		07/15/17 04:42	07/15/17 10:59	1
Phenanthrene	ND		0.0067	0.0028	mg/Kg		07/15/17 04:42	07/15/17 10:59	1
Phenol	ND		0.033	0.0045	mg/Kg		07/15/17 04:42	07/15/17 10:59	1
Pyrene	ND		0.0067	0.0030	mg/Kg		07/15/17 04:42	07/15/17 10:59	1
Pyridine	ND		0.033	0.0032	mg/Kg		07/15/17 04:42	07/15/17 10:59	1
2,4,5-Trichlorophenol	ND		0.033	0.0032	mg/Kg		07/15/17 04:42	07/15/17 10:59	1
2,4,6-Trichlorophenol	ND		0.033	0.0029	mg/Kg		07/15/17 04:42	07/15/17 10:59	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*82*		*42 - 100*	*07/15/17 04:42*	*07/15/17 10:59*	*1*
2-Fluorophenol (Surr)	*75*		*21 - 107*	*07/15/17 04:42*	*07/15/17 10:59*	*1*
Nitrobenzene-d5 (Surr)	*82*		*35 - 109*	*07/15/17 04:42*	*07/15/17 10:59*	*1*
Phenol-d5 (Surr)	*68*		*29 - 105*	*07/15/17 04:42*	*07/15/17 10:59*	*1*
Terphenyl-d14 (Surr)	*86*		*36 - 113*	*07/15/17 04:42*	*07/15/17 10:59*	*1*
2,4,6-Tribromophenol (Surr)	*77*		*20 - 134*	*07/15/17 04:42*	*07/15/17 10:59*	*1*

Lab Sample ID: MB 180-217139/1-A
Matrix: Solid
Analysis Batch: 217242

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 217139

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0067	0.0022	mg/Kg		07/15/17 04:42	07/17/17 11:21	1
Acenaphthylene	ND		0.0067	0.0023	mg/Kg		07/15/17 04:42	07/17/17 11:21	1
Anthracene	ND		0.0067	0.0025	mg/Kg		07/15/17 04:42	07/17/17 11:21	1
Benzo[a]anthracene	ND		0.0067	0.0026	mg/Kg		07/15/17 04:42	07/17/17 11:21	1
Benzo[a]pyrene	ND		0.0067	0.0028	mg/Kg		07/15/17 04:42	07/17/17 11:21	1
Benzo[b]fluoranthene	ND		0.0067	0.0029	mg/Kg		07/15/17 04:42	07/17/17 11:21	1
Benzo[g,h,i]perylene	ND		0.0067	0.0029	mg/Kg		07/15/17 04:42	07/17/17 11:21	1
Benzo[k]fluoranthene	ND		0.0067	0.0023	mg/Kg		07/15/17 04:42	07/17/17 11:21	1

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: MB 180-217139/1-A
Matrix: Solid
Analysis Batch: 217242

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 217139

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	ND		0.0067	0.0026	mg/Kg		07/15/17 04:42	07/17/17 11:21	1
Dibenz(a,h)anthracene	ND		0.0067	0.0028	mg/Kg		07/15/17 04:42	07/17/17 11:21	1
Dibenzofuran	ND		0.033	0.0027	mg/Kg		07/15/17 04:42	07/17/17 11:21	1
2,4-Dinitrotoluene	ND		0.033	0.0044	mg/Kg		07/15/17 04:42	07/17/17 11:21	1
1,4-Dioxane	ND		0.067	0.0050	mg/Kg		07/15/17 04:42	07/17/17 11:21	1
Fluoranthene	ND		0.0067	0.0026	mg/Kg		07/15/17 04:42	07/17/17 11:21	1
Fluorene	ND		0.0067	0.0024	mg/Kg		07/15/17 04:42	07/17/17 11:21	1
Hexachlorobenzene	ND		0.0067	0.0027	mg/Kg		07/15/17 04:42	07/17/17 11:21	1
Hexachlorobutadiene	ND		0.0067	0.0021	mg/Kg		07/15/17 04:42	07/17/17 11:21	1
Hexachloroethane	ND		0.033	0.0024	mg/Kg		07/15/17 04:42	07/17/17 11:21	1
Indeno[1,2,3-cd]pyrene	ND		0.0067	0.0026	mg/Kg		07/15/17 04:42	07/17/17 11:21	1
2-Methylphenol	ND		0.033	0.0029	mg/Kg		07/15/17 04:42	07/17/17 11:21	1
Methylphenol, 3 & 4	ND		0.033	0.0030	mg/Kg		07/15/17 04:42	07/17/17 11:21	1
Naphthalene	ND		0.0067	0.0024	mg/Kg		07/15/17 04:42	07/17/17 11:21	1
Nitrobenzene	ND		0.067	0.0025	mg/Kg		07/15/17 04:42	07/17/17 11:21	1
Pentachlorophenol	ND		0.17	0.063	mg/Kg		07/15/17 04:42	07/17/17 11:21	1
Phenanthrene	ND		0.0067	0.0028	mg/Kg		07/15/17 04:42	07/17/17 11:21	1
Phenol	ND		0.033	0.0045	mg/Kg		07/15/17 04:42	07/17/17 11:21	1
Pyrene	ND		0.0067	0.0030	mg/Kg		07/15/17 04:42	07/17/17 11:21	1
Pyridine	ND		0.033	0.0032	mg/Kg		07/15/17 04:42	07/17/17 11:21	1
2,4,5-Trichlorophenol	ND		0.033	0.0032	mg/Kg		07/15/17 04:42	07/17/17 11:21	1
2,4,6-Trichlorophenol	ND		0.033	0.0029	mg/Kg		07/15/17 04:42	07/17/17 11:21	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*61*		*42 - 100*	*07/15/17 04:42*	*07/17/17 11:21*	*1*
2-Fluorophenol (Surr)	*65*		*21 - 107*	*07/15/17 04:42*	*07/17/17 11:21*	*1*
Nitrobenzene-d5 (Surr)	*66*		*35 - 109*	*07/15/17 04:42*	*07/17/17 11:21*	*1*
Phenol-d5 (Surr)	*60*		*29 - 105*	*07/15/17 04:42*	*07/17/17 11:21*	*1*
Terphenyl-d14 (Surr)	*62*		*36 - 113*	*07/15/17 04:42*	*07/17/17 11:21*	*1*
2,4,6-Tribromophenol (Surr)	*66*		*20 - 134*	*07/15/17 04:42*	*07/17/17 11:21*	*1*

Lab Sample ID: LCS 180-217139/2-A
Matrix: Solid
Analysis Batch: 217155

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 217139

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	0.667	0.531		mg/Kg		80	39 - 100
Acenaphthylene	0.667	0.513		mg/Kg		77	42 - 100
Anthracene	0.667	0.587		mg/Kg		88	43 - 100
Benzo[a]anthracene	0.667	0.572		mg/Kg		86	43 - 100
Benzo[a]pyrene	0.667	0.551		mg/Kg		83	43 - 100
Benzo[b]fluoranthene	0.667	0.523		mg/Kg		78	40 - 100
Benzo[g,h,i]perylene	0.667	0.540		mg/Kg		81	41 - 102
Benzo[k]fluoranthene	0.667	0.528		mg/Kg		79	44 - 100
Chrysene	0.667	0.545		mg/Kg		82	44 - 100
Dibenz(a,h)anthracene	0.667	0.547		mg/Kg		82	40 - 104
Dibenzofuran	0.667	0.506		mg/Kg		76	42 - 100
2,4-Dinitrotoluene	0.667	0.562		mg/Kg		84	42 - 110

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCS 180-217139/2-A
Matrix: Solid
Analysis Batch: 217155

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 217139

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	0.667	0.547		mg/Kg		82	19 - 107
Fluoranthene	0.667	0.592		mg/Kg		89	41 - 104
Fluorene	0.667	0.538		mg/Kg		81	41 - 100
Hexachlorobenzene	0.667	0.626		mg/Kg		94	43 - 100
Hexachlorobutadiene	0.667	0.581		mg/Kg		87	35 - 100
Hexachloroethane	0.667	0.455		mg/Kg		68	35 - 100
Indeno[1,2,3-cd]pyrene	0.667	0.555		mg/Kg		83	41 - 104
2-Methylphenol	0.667	0.460		mg/Kg		69	38 - 100
Methylphenol, 3 & 4	0.667	0.435		mg/Kg		65	40 - 100
Naphthalene	0.667	0.467		mg/Kg		70	38 - 100
Nitrobenzene	0.667	0.480		mg/Kg		72	34 - 100
Pentachlorophenol	1.33	0.863		mg/Kg		65	34 - 102
Phenanthrene	0.667	0.563		mg/Kg		84	41 - 100
Phenol	0.667	0.430		mg/Kg		65	36 - 100
Pyrene	0.667	0.540		mg/Kg		81	42 - 100
Pyridine	1.33	1.20		mg/Kg		90	25 - 119
2,4,5-Trichlorophenol	0.667	0.574		mg/Kg		86	42 - 100
2,4,6-Trichlorophenol	0.667	0.554		mg/Kg		83	41 - 103

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*74*		*42 - 100*
2-Fluorophenol (Surr)	*68*		*21 - 107*
Nitrobenzene-d5 (Surr)	*67*		*35 - 109*
Phenol-d5 (Surr)	*59*		*29 - 105*
Terphenyl-d14 (Surr)	*78*		*36 - 113*
2,4,6-Tribromophenol (Surr)	*79*		*20 - 134*

Lab Sample ID: 180-68219-3 MS
Matrix: Solid
Analysis Batch: 217155

Client Sample ID: W6, S1, C 071317
Prep Type: Total/NA
Prep Batch: 217139

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	0.010	J	0.693	0.497		mg/Kg	☼	70	39 - 100
Acenaphthylene	0.15		0.693	0.672		mg/Kg	☼	76	42 - 100
Anthracene	0.17	F2	0.693	0.751		mg/Kg	☼	84	43 - 100
Benzo[a]anthracene	0.48	F2	0.693	1.10		mg/Kg	☼	89	43 - 100
Benzo[a]pyrene	0.46	F2	0.693	1.06		mg/Kg	☼	86	43 - 100
Benzo[b]fluoranthene	0.55	F2 F1	0.693	1.11		mg/Kg	☼	80	40 - 100
Benzo[g,h,i]perylene	0.49	F1 F2	0.693	1.25	F1	mg/Kg	☼	110	41 - 102
Benzo[k]fluoranthene	0.24		0.693	0.756		mg/Kg	☼	75	44 - 100
Chrysene	0.46	F2	0.693	1.04		mg/Kg	☼	83	44 - 100
Dibenz(a,h)anthracene	0.12		0.693	0.757		mg/Kg	☼	92	40 - 104
Dibenzofuran	0.029	J	0.693	0.499		mg/Kg	☼	68	42 - 100
2,4-Dinitrotoluene	ND		0.693	0.542		mg/Kg	☼	78	42 - 110
1,4-Dioxane	ND		0.693	0.453		mg/Kg	☼	65	19 - 107
Fluoranthene	0.94	F2 F1	0.693	1.61		mg/Kg	☼	97	41 - 104
Fluorene	0.027		0.693	0.526		mg/Kg	☼	72	41 - 100
Hexachlorobenzene	ND		0.693	0.582		mg/Kg	☼	84	43 - 100

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: 180-68219-3 MS
Matrix: Solid
Analysis Batch: 217155

Client Sample ID: W6, S1, C 071317
Prep Type: Total/NA
Prep Batch: 217139

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Hexachlorobutadiene	ND		0.693	0.549		mg/Kg	☼	79	35 - 100
Hexachloroethane	ND		0.693	0.390		mg/Kg	☼	56	35 - 100
Indeno[1,2,3-cd]pyrene	0.41		0.693	1.12		mg/Kg	☼	103	41 - 104
2-Methylphenol	ND		0.693	0.367		mg/Kg	☼	53	38 - 100
Methylphenol, 3 & 4	ND		0.693	0.357		mg/Kg	☼	52	40 - 100
Naphthalene	0.12		0.693	0.563		mg/Kg	☼	64	38 - 100
Nitrobenzene	ND		0.693	0.495		mg/Kg	☼	71	34 - 100
Pentachlorophenol	ND	F1	1.39	0.336	J F1	mg/Kg	☼	24	34 - 102
Phenanthrene	0.37	F2 F1	0.693	0.904		mg/Kg	☼	76	41 - 100
Phenol	ND		0.693	0.344		mg/Kg	☼	50	36 - 100
Pyrene	0.69	F2 F1	0.693	1.17		mg/Kg	☼	68	42 - 100
Pyridine	ND	F1 F2	1.39	0.0243	J F1	mg/Kg	☼	2	25 - 119
2,4,5-Trichlorophenol	ND		0.693	0.473		mg/Kg	☼	68	42 - 100
2,4,6-Trichlorophenol	ND		0.693	0.471		mg/Kg	☼	68	41 - 103

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl	*63*		*42 - 100*
2-Fluorophenol (Surr)	*52*		*21 - 107*
Nitrobenzene-d5 (Surr)	*63*		*35 - 109*
Phenol-d5 (Surr)	*50*		*29 - 105*
Terphenyl-d14 (Surr)	*62*		*36 - 113*
2,4,6-Tribromophenol (Surr)	*70*		*20 - 134*

Lab Sample ID: 180-68219-3 MSD
Matrix: Solid
Analysis Batch: 217155

Client Sample ID: W6, S1, C 071317
Prep Type: Total/NA
Prep Batch: 217139

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	0.010	J	0.697	0.468		mg/Kg	☼	66	39 - 100	6	20
Acenaphthylene	0.15		0.697	0.618		mg/Kg	☼	68	42 - 100	8	20
Anthracene	0.17	F2	0.697	0.602	F2	mg/Kg	☼	63	43 - 100	22	20
Benzo[a]anthracene	0.48	F2	0.697	0.878	F2	mg/Kg	☼	57	43 - 100	22	20
Benzo[a]pyrene	0.46	F2	0.697	0.799	F2	mg/Kg	☼	48	43 - 100	28	20
Benzo[b]fluoranthene	0.55	F2 F1	0.697	0.787	F1 F2	mg/Kg	☼	33	40 - 100	34	20
Benzo[g,h,i]perylene	0.49	F1 F2	0.697	0.988	F2	mg/Kg	☼	72	41 - 102	23	20
Benzo[k]fluoranthene	0.24		0.697	0.633		mg/Kg	☼	57	44 - 100	18	20
Chrysene	0.46	F2	0.697	0.815	F2	mg/Kg	☼	50	44 - 100	24	20
Dibenz(a,h)anthracene	0.12		0.697	0.661		mg/Kg	☼	78	40 - 104	14	26
Dibenzofuran	0.029	J	0.697	0.504		mg/Kg	☼	68	42 - 100	1	23
2,4-Dinitrotoluene	ND		0.697	0.566		mg/Kg	☼	81	42 - 110	4	21
1,4-Dioxane	ND		0.697	0.494		mg/Kg	☼	71	19 - 107	9	20
Fluoranthene	0.94	F2 F1	0.697	1.09	F1 F2	mg/Kg	☼	21	41 - 104	39	20
Fluorene	0.027		0.697	0.512		mg/Kg	☼	70	41 - 100	3	21
Hexachlorobenzene	ND		0.697	0.526		mg/Kg	☼	76	43 - 100	10	21
Hexachlorobutadiene	ND		0.697	0.533		mg/Kg	☼	77	35 - 100	3	20
Hexachloroethane	ND		0.697	0.399		mg/Kg	☼	57	35 - 100	2	20
Indeno[1,2,3-cd]pyrene	0.41		0.697	0.881		mg/Kg	☼	68	41 - 104	24	25
2-Methylphenol	ND		0.697	0.352		mg/Kg	☼	51	38 - 100	4	20

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: 180-68219-3 MSD
Matrix: Solid
Analysis Batch: 217155

Client Sample ID: W6, S1, C 071317
Prep Type: Total/NA
Prep Batch: 217139

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methylphenol, 3 & 4	ND		0.697	0.344		mg/Kg	☼	49	40 - 100	4	20
Naphthalene	0.12		0.697	0.509		mg/Kg	☼	56	38 - 100	10	20
Nitrobenzene	ND		0.697	0.456		mg/Kg	☼	65	34 - 100	8	20
Pentachlorophenol	ND	F1	1.39	0.289	J F1	mg/Kg	☼	21	34 - 102	15	20
Phenanthrene	0.37	F2 F1	0.697	0.655	F1 F2	mg/Kg	☼	40	41 - 100	32	20
Phenol	ND		0.697	0.333		mg/Kg	☼	48	36 - 100	3	20
Pyrene	0.69	F2 F1	0.697	0.871	F1 F2	mg/Kg	☼	26	42 - 100	29	21
Pyridine	ND	F1 F2	1.39	0.215	F1 F2	mg/Kg	☼	15	25 - 119	159	20
2,4,5-Trichlorophenol	ND		0.697	0.492		mg/Kg	☼	71	42 - 100	4	22
2,4,6-Trichlorophenol	ND		0.697	0.469		mg/Kg	☼	67	41 - 103	0	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl	*62*		*42 - 100*
2-Fluorophenol (Surr)	*49*		*21 - 107*
Nitrobenzene-d5 (Surr)	*58*		*35 - 109*
Phenol-d5 (Surr)	*44*		*29 - 105*
Terphenyl-d14 (Surr)	*60*		*36 - 113*
2,4,6-Tribromophenol (Surr)	*54*		*20 - 134*

Lab Sample ID: MB 180-217195/1-A
Matrix: Solid
Analysis Batch: 217231

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 217195

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0034	0.0011	mg/Kg		07/16/17 13:37	07/17/17 09:31	1
Acenaphthylene	ND		0.0034	0.0011	mg/Kg		07/16/17 13:37	07/17/17 09:31	1
Anthracene	ND		0.0034	0.0012	mg/Kg		07/16/17 13:37	07/17/17 09:31	1
Benzo[a]anthracene	ND		0.0034	0.0013	mg/Kg		07/16/17 13:37	07/17/17 09:31	1
Benzo[a]pyrene	ND		0.0034	0.0014	mg/Kg		07/16/17 13:37	07/17/17 09:31	1
Benzo[b]fluoranthene	ND		0.0034	0.0014	mg/Kg		07/16/17 13:37	07/17/17 09:31	1
Benzo[g,h,i]perylene	ND		0.0034	0.0014	mg/Kg		07/16/17 13:37	07/17/17 09:31	1
Benzo[k]fluoranthene	ND		0.0034	0.0012	mg/Kg		07/16/17 13:37	07/17/17 09:31	1
Chrysene	ND		0.0034	0.0013	mg/Kg		07/16/17 13:37	07/17/17 09:31	1
Dibenz(a,h)anthracene	ND		0.0034	0.0014	mg/Kg		07/16/17 13:37	07/17/17 09:31	1
Dibenzofuran	ND		0.017	0.0013	mg/Kg		07/16/17 13:37	07/17/17 09:31	1
2,4-Dinitrotoluene	ND		0.017	0.0022	mg/Kg		07/16/17 13:37	07/17/17 09:31	1
1,4-Dioxane	ND		0.033	0.0025	mg/Kg		07/16/17 13:37	07/17/17 09:31	1
Fluoranthene	ND		0.0034	0.0013	mg/Kg		07/16/17 13:37	07/17/17 09:31	1
Fluorene	ND		0.0034	0.0012	mg/Kg		07/16/17 13:37	07/17/17 09:31	1
Hexachlorobenzene	ND		0.0034	0.0013	mg/Kg		07/16/17 13:37	07/17/17 09:31	1
Hexachlorobutadiene	ND		0.0034	0.0011	mg/Kg		07/16/17 13:37	07/17/17 09:31	1
Hexachloroethane	ND		0.017	0.0012	mg/Kg		07/16/17 13:37	07/17/17 09:31	1
Indeno[1,2,3-cd]pyrene	ND		0.0034	0.0013	mg/Kg		07/16/17 13:37	07/17/17 09:31	1
2-Methylphenol	ND		0.017	0.0015	mg/Kg		07/16/17 13:37	07/17/17 09:31	1
Methylphenol, 3 & 4	ND		0.017	0.0015	mg/Kg		07/16/17 13:37	07/17/17 09:31	1
Naphthalene	ND		0.0034	0.0012	mg/Kg		07/16/17 13:37	07/17/17 09:31	1
Nitrobenzene	ND		0.033	0.0013	mg/Kg		07/16/17 13:37	07/17/17 09:31	1
Pentachlorophenol	ND		0.085	0.032	mg/Kg		07/16/17 13:37	07/17/17 09:31	1

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: MB 180-217195/1-A
Matrix: Solid
Analysis Batch: 217231

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 217195

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenanthrene	ND		0.0034	0.0014	mg/Kg		07/16/17 13:37	07/17/17 09:31	1
Phenol	ND		0.017	0.0023	mg/Kg		07/16/17 13:37	07/17/17 09:31	1
Pyrene	ND		0.0034	0.0015	mg/Kg		07/16/17 13:37	07/17/17 09:31	1
Pyridine	ND		0.017	0.0016	mg/Kg		07/16/17 13:37	07/17/17 09:31	1
2,4,5-Trichlorophenol	ND		0.017	0.0016	mg/Kg		07/16/17 13:37	07/17/17 09:31	1
2,4,6-Trichlorophenol	ND		0.017	0.0015	mg/Kg		07/16/17 13:37	07/17/17 09:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*71*		*42 - 100*	*07/16/17 13:37*	*07/17/17 09:31*	*1*
2-Fluorophenol (Surr)	*69*		*21 - 107*	*07/16/17 13:37*	*07/17/17 09:31*	*1*
Nitrobenzene-d5 (Surr)	*69*		*35 - 109*	*07/16/17 13:37*	*07/17/17 09:31*	*1*
Phenol-d5 (Surr)	*71*		*29 - 105*	*07/16/17 13:37*	*07/17/17 09:31*	*1*
Terphenyl-d14 (Surr)	*80*		*36 - 113*	*07/16/17 13:37*	*07/17/17 09:31*	*1*
2,4,6-Tribromophenol (Surr)	*74*		*20 - 134*	*07/16/17 13:37*	*07/17/17 09:31*	*1*

Lab Sample ID: LCS 180-217195/2-A
Matrix: Solid
Analysis Batch: 217231

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 217195

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	0.333	0.242		mg/Kg		72	39 - 100
Acenaphthylene	0.333	0.245		mg/Kg		73	42 - 100
Anthracene	0.333	0.250		mg/Kg		75	43 - 100
Benzo[a]anthracene	0.333	0.245		mg/Kg		73	43 - 100
Benzo[a]pyrene	0.333	0.251		mg/Kg		75	43 - 100
Benzo[b]fluoranthene	0.333	0.236		mg/Kg		71	40 - 100
Benzo[g,h,i]perylene	0.333	0.251		mg/Kg		75	41 - 102
Benzo[k]fluoranthene	0.333	0.255		mg/Kg		77	44 - 100
Chrysene	0.333	0.245		mg/Kg		73	44 - 100
Dibenz(a,h)anthracene	0.333	0.253		mg/Kg		76	40 - 104
Dibenzofuran	0.333	0.246		mg/Kg		74	42 - 100
2,4-Dinitrotoluene	0.333	0.271		mg/Kg		81	42 - 110
1,4-Dioxane	0.333	0.232		mg/Kg		70	19 - 107
Fluoranthene	0.333	0.261		mg/Kg		78	41 - 104
Fluorene	0.333	0.245		mg/Kg		73	41 - 100
Hexachlorobenzene	0.333	0.249		mg/Kg		75	43 - 100
Hexachlorobutadiene	0.333	0.231		mg/Kg		69	35 - 100
Hexachloroethane	0.333	0.227		mg/Kg		68	35 - 100
Indeno[1,2,3-cd]pyrene	0.333	0.256		mg/Kg		77	41 - 104
2-Methylphenol	0.333	0.241		mg/Kg		72	38 - 100
Methylphenol, 3 & 4	0.333	0.238		mg/Kg		71	40 - 100
Naphthalene	0.333	0.238		mg/Kg		71	38 - 100
Nitrobenzene	0.333	0.240		mg/Kg		72	34 - 100
Pentachlorophenol	0.667	0.490		mg/Kg		74	34 - 102
Phenanthrene	0.333	0.245		mg/Kg		73	41 - 100
Phenol	0.333	0.245		mg/Kg		74	36 - 100
Pyrene	0.333	0.247		mg/Kg		74	42 - 100
Pyridine	0.667	0.502		mg/Kg		75	25 - 119

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCS 180-217195/2-A
Matrix: Solid
Analysis Batch: 217231

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 217195

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
2,4,5-Trichlorophenol			0.333	0.248		mg/Kg		74	42 - 100		
2,4,6-Trichlorophenol			0.333	0.259		mg/Kg		78	41 - 103		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*71*		*42 - 100*
2-Fluorophenol (Surr)	*71*		*21 - 107*
Nitrobenzene-d5 (Surr)	*71*		*35 - 109*
Phenol-d5 (Surr)	*72*		*29 - 105*
Terphenyl-d14 (Surr)	*74*		*36 - 113*
2,4,6-Tribromophenol (Surr)	*75*		*20 - 134*

Lab Sample ID: LCSD 180-217195/3-A
Matrix: Solid
Analysis Batch: 217231

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 217195

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene			0.333	0.249		mg/Kg		75	39 - 100	3	20
Acenaphthylene			0.333	0.250		mg/Kg		75	42 - 100	2	20
Anthracene			0.333	0.258		mg/Kg		77	43 - 100	3	20
Benzo[a]anthracene			0.333	0.251		mg/Kg		75	43 - 100	3	20
Benzo[a]pyrene			0.333	0.261		mg/Kg		78	43 - 100	4	20
Benzo[b]fluoranthene			0.333	0.247		mg/Kg		74	40 - 100	4	20
Benzo[g,h,i]perylene			0.333	0.261		mg/Kg		78	41 - 102	4	20
Benzo[k]fluoranthene			0.333	0.264		mg/Kg		79	44 - 100	3	20
Chrysene			0.333	0.252		mg/Kg		76	44 - 100	3	20
Dibenz(a,h)anthracene			0.333	0.260		mg/Kg		78	40 - 104	3	26
Dibenzofuran			0.333	0.253		mg/Kg		76	42 - 100	3	23
2,4-Dinitrotoluene			0.333	0.279		mg/Kg		84	42 - 110	3	21
1,4-Dioxane			0.333	0.227		mg/Kg		68	19 - 107	2	20
Fluoranthene			0.333	0.267		mg/Kg		80	41 - 104	2	20
Fluorene			0.333	0.255		mg/Kg		76	41 - 100	4	21
Hexachlorobenzene			0.333	0.254		mg/Kg		76	43 - 100	2	21
Hexachlorobutadiene			0.333	0.243		mg/Kg		73	35 - 100	5	20
Hexachloroethane			0.333	0.233		mg/Kg		70	35 - 100	3	20
Indeno[1,2,3-cd]pyrene			0.333	0.263		mg/Kg		79	41 - 104	3	25
2-Methylphenol			0.333	0.244		mg/Kg		73	38 - 100	1	20
Methylphenol, 3 & 4			0.333	0.243		mg/Kg		73	40 - 100	2	20
Naphthalene			0.333	0.245		mg/Kg		73	38 - 100	3	20
Nitrobenzene			0.333	0.250		mg/Kg		75	34 - 100	4	20
Pentachlorophenol			0.667	0.511		mg/Kg		77	34 - 102	4	20
Phenanthrene			0.333	0.251		mg/Kg		75	41 - 100	2	20
Phenol			0.333	0.248		mg/Kg		74	36 - 100	1	20
Pyrene			0.333	0.258		mg/Kg		77	42 - 100	4	21
Pyridine			0.667	0.498		mg/Kg		75	25 - 119	1	20
2,4,5-Trichlorophenol			0.333	0.254		mg/Kg		76	42 - 100	2	22
2,4,6-Trichlorophenol			0.333	0.263		mg/Kg		79	41 - 103	1	25

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCSD 180-217195/3-A
Matrix: Solid
Analysis Batch: 217231

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 217195

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*72*		*42 - 100*
2-Fluorophenol (Surr)	*71*		*21 - 107*
Nitrobenzene-d5 (Surr)	*74*		*35 - 109*
Phenol-d5 (Surr)	*73*		*29 - 105*
Terphenyl-d14 (Surr)	*77*		*36 - 113*
2,4,6-Tribromophenol (Surr)	*79*		*20 - 134*

Lab Sample ID: MB 180-217309/1-A
Matrix: Solid
Analysis Batch: 217354

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 217309

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0067	0.0022	mg/Kg		07/18/17 03:38	07/18/17 10:30	1
Acenaphthylene	ND		0.0067	0.0023	mg/Kg		07/18/17 03:38	07/18/17 10:30	1
Anthracene	ND		0.0067	0.0025	mg/Kg		07/18/17 03:38	07/18/17 10:30	1
Benzo[a]anthracene	ND		0.0067	0.0026	mg/Kg		07/18/17 03:38	07/18/17 10:30	1
Benzo[a]pyrene	ND		0.0067	0.0028	mg/Kg		07/18/17 03:38	07/18/17 10:30	1
Benzo[b]fluoranthene	ND		0.0067	0.0029	mg/Kg		07/18/17 03:38	07/18/17 10:30	1
Benzo[g,h,i]perylene	ND		0.0067	0.0029	mg/Kg		07/18/17 03:38	07/18/17 10:30	1
Benzo[k]fluoranthene	ND		0.0067	0.0023	mg/Kg		07/18/17 03:38	07/18/17 10:30	1
Chrysene	ND		0.0067	0.0026	mg/Kg		07/18/17 03:38	07/18/17 10:30	1
Dibenz(a,h)anthracene	ND		0.0067	0.0028	mg/Kg		07/18/17 03:38	07/18/17 10:30	1
Dibenzofuran	ND		0.033	0.0027	mg/Kg		07/18/17 03:38	07/18/17 10:30	1
2,4-Dinitrotoluene	ND		0.033	0.0044	mg/Kg		07/18/17 03:38	07/18/17 10:30	1
1,4-Dioxane	ND		0.067	0.0050	mg/Kg		07/18/17 03:38	07/18/17 10:30	1
Fluoranthene	ND		0.0067	0.0026	mg/Kg		07/18/17 03:38	07/18/17 10:30	1
Fluorene	ND		0.0067	0.0024	mg/Kg		07/18/17 03:38	07/18/17 10:30	1
Hexachlorobenzene	ND		0.0067	0.0027	mg/Kg		07/18/17 03:38	07/18/17 10:30	1
Hexachlorobutadiene	ND		0.0067	0.0021	mg/Kg		07/18/17 03:38	07/18/17 10:30	1
Hexachloroethane	ND		0.033	0.0024	mg/Kg		07/18/17 03:38	07/18/17 10:30	1
Indeno[1,2,3-cd]pyrene	ND		0.0067	0.0026	mg/Kg		07/18/17 03:38	07/18/17 10:30	1
2-Methylphenol	ND		0.033	0.0029	mg/Kg		07/18/17 03:38	07/18/17 10:30	1
Methylphenol, 3 & 4	ND		0.033	0.0030	mg/Kg		07/18/17 03:38	07/18/17 10:30	1
Naphthalene	ND		0.0067	0.0024	mg/Kg		07/18/17 03:38	07/18/17 10:30	1
Nitrobenzene	ND		0.067	0.0025	mg/Kg		07/18/17 03:38	07/18/17 10:30	1
Pentachlorophenol	ND		0.17	0.063	mg/Kg		07/18/17 03:38	07/18/17 10:30	1
Phenanthrene	ND		0.0067	0.0028	mg/Kg		07/18/17 03:38	07/18/17 10:30	1
Phenol	ND		0.033	0.0045	mg/Kg		07/18/17 03:38	07/18/17 10:30	1
Pyrene	ND		0.0067	0.0030	mg/Kg		07/18/17 03:38	07/18/17 10:30	1
Pyridine	ND		0.033	0.0032	mg/Kg		07/18/17 03:38	07/18/17 10:30	1
2,4,5-Trichlorophenol	ND		0.033	0.0032	mg/Kg		07/18/17 03:38	07/18/17 10:30	1
2,4,6-Trichlorophenol	ND		0.033	0.0029	mg/Kg		07/18/17 03:38	07/18/17 10:30	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*68*		*42 - 100*	*07/18/17 03:38*	*07/18/17 10:30*	*1*
2-Fluorophenol (Surr)	*66*		*21 - 107*	*07/18/17 03:38*	*07/18/17 10:30*	*1*
Nitrobenzene-d5 (Surr)	*66*		*35 - 109*	*07/18/17 03:38*	*07/18/17 10:30*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: MB 180-217309/1-A
Matrix: Solid
Analysis Batch: 217354

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 217309

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Phenol-d5 (Surr)	*68*		*29 - 105*	*07/18/17 03:38*	*07/18/17 10:30*	*1*
Terphenyl-d14 (Surr)	*73*		*36 - 113*	*07/18/17 03:38*	*07/18/17 10:30*	*1*
2,4,6-Tribromophenol (Surr)	*71*		*20 - 134*	*07/18/17 03:38*	*07/18/17 10:30*	*1*

Lab Sample ID: LCS 180-217309/2-A
Matrix: Solid
Analysis Batch: 217354

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 217309

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	0.667	0.446		mg/Kg		67	39 - 100
Acenaphthylene	0.667	0.454		mg/Kg		68	42 - 100
Anthracene	0.667	0.471		mg/Kg		71	43 - 100
Benzo[a]anthracene	0.667	0.460		mg/Kg		69	43 - 100
Benzo[a]pyrene	0.667	0.459		mg/Kg		69	43 - 100
Benzo[b]fluoranthene	0.667	0.445		mg/Kg		67	40 - 100
Benzo[g,h,i]perylene	0.667	0.429		mg/Kg		64	41 - 102
Benzo[k]fluoranthene	0.667	0.458		mg/Kg		69	44 - 100
Chrysene	0.667	0.460		mg/Kg		69	44 - 100
Dibenz(a,h)anthracene	0.667	0.442		mg/Kg		66	40 - 104
Dibenzofuran	0.667	0.451		mg/Kg		68	42 - 100
2,4-Dinitrotoluene	0.667	0.495		mg/Kg		74	42 - 110
1,4-Dioxane	0.667	0.419		mg/Kg		63	19 - 107
Fluoranthene	0.667	0.483		mg/Kg		72	41 - 104
Fluorene	0.667	0.458		mg/Kg		69	41 - 100
Hexachlorobenzene	0.667	0.465		mg/Kg		70	43 - 100
Hexachlorobutadiene	0.667	0.442		mg/Kg		66	35 - 100
Hexachloroethane	0.667	0.438		mg/Kg		66	35 - 100
Indeno[1,2,3-cd]pyrene	0.667	0.444		mg/Kg		67	41 - 104
2-Methylphenol	0.667	0.456		mg/Kg		68	38 - 100
Methylphenol, 3 & 4	0.667	0.457		mg/Kg		69	40 - 100
Naphthalene	0.667	0.449		mg/Kg		67	38 - 100
Nitrobenzene	0.667	0.445		mg/Kg		67	34 - 100
Pentachlorophenol	1.33	0.884		mg/Kg		66	34 - 102
Phenanthrene	0.667	0.455		mg/Kg		68	41 - 100
Phenol	0.667	0.460		mg/Kg		69	36 - 100
Pyrene	0.667	0.465		mg/Kg		70	42 - 100
Pyridine	1.33	0.928		mg/Kg		70	25 - 119
2,4,5-Trichlorophenol	0.667	0.456		mg/Kg		68	42 - 100
2,4,6-Trichlorophenol	0.667	0.471		mg/Kg		71	41 - 103

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	*67*		*42 - 100*
2-Fluorophenol (Surr)	*69*		*21 - 107*
Nitrobenzene-d5 (Surr)	*66*		*35 - 109*
Phenol-d5 (Surr)	*69*		*29 - 105*
Terphenyl-d14 (Surr)	*72*		*36 - 113*
2,4,6-Tribromophenol (Surr)	*72*		*20 - 134*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: 180-68219-12 MS
Matrix: Solid
Analysis Batch: 217354

Client Sample ID: W6, S4, C 071317
Prep Type: Total/NA
Prep Batch: 217309

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	ND		0.724	0.585		mg/Kg	☼	81	39 - 100
Acenaphthylene	0.055		0.724	0.625		mg/Kg	☼	79	42 - 100
Anthracene	0.052		0.724	0.641		mg/Kg	☼	81	43 - 100
Benzo[a]anthracene	0.16		0.724	0.772		mg/Kg	☼	85	43 - 100
Benzo[a]pyrene	0.15		0.724	0.694		mg/Kg	☼	75	43 - 100
Benzo[b]fluoranthene	0.19		0.724	0.642		mg/Kg	☼	63	40 - 100
Benzo[g,h,i]perylene	0.16		0.724	0.833		mg/Kg	☼	93	41 - 102
Benzo[k]fluoranthene	0.073		0.724	0.609		mg/Kg	☼	74	44 - 100
Chrysene	0.16		0.724	0.746		mg/Kg	☼	80	44 - 100
Dibenz(a,h)anthracene	0.040		0.724	0.702		mg/Kg	☼	91	40 - 104
Dibenzofuran	0.020	J	0.724	0.602		mg/Kg	☼	80	42 - 100
2,4-Dinitrotoluene	ND		0.724	0.607		mg/Kg	☼	84	42 - 110
1,4-Dioxane	ND		0.724	0.418		mg/Kg	☼	58	19 - 107
Fluoranthene	0.22		0.724	0.775		mg/Kg	☼	76	41 - 104
Fluorene	0.011	J	0.724	0.587		mg/Kg	☼	80	41 - 100
Hexachlorobenzene	ND		0.724	0.604		mg/Kg	☼	83	43 - 100
Hexachlorobutadiene	ND		0.724	0.533		mg/Kg	☼	74	35 - 100
Hexachloroethane	ND		0.724	0.466		mg/Kg	☼	64	35 - 100
Indeno[1,2,3-cd]pyrene	0.13		0.724	0.792		mg/Kg	☼	92	41 - 104
2-Methylphenol	ND		0.724	0.506		mg/Kg	☼	70	38 - 100
Methylphenol, 3 & 4	ND		0.724	0.514		mg/Kg	☼	71	40 - 100
Naphthalene	0.053		0.724	0.570		mg/Kg	☼	71	38 - 100
Nitrobenzene	ND		0.724	0.529		mg/Kg	☼	73	34 - 100
Pentachlorophenol	ND		1.45	0.856		mg/Kg	☼	59	34 - 102
Phenanthrene	0.14		0.724	0.734		mg/Kg	☼	82	41 - 100
Phenol	ND		0.724	0.478		mg/Kg	☼	66	36 - 100
Pyrene	0.24		0.724	0.840		mg/Kg	☼	83	42 - 100
Pyridine	ND	F1	1.45	0.374		mg/Kg	☼	26	25 - 119
2,4,5-Trichlorophenol	ND		0.724	0.559		mg/Kg	☼	77	42 - 100
2,4,6-Trichlorophenol	ND		0.724	0.598		mg/Kg	☼	83	41 - 103

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl	*79*		*42 - 100*
2-Fluorophenol (Surr)	*62*		*21 - 107*
Nitrobenzene-d5 (Surr)	*71*		*35 - 109*
Phenol-d5 (Surr)	*65*		*29 - 105*
Terphenyl-d14 (Surr)	*78*		*36 - 113*
2,4,6-Tribromophenol (Surr)	*82*		*20 - 134*

Lab Sample ID: 180-68219-12 MSD
Matrix: Solid
Analysis Batch: 217354

Client Sample ID: W6, S4, C 071317
Prep Type: Total/NA
Prep Batch: 217309

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	ND		0.734	0.554		mg/Kg	☼	75	39 - 100	6	20
Acenaphthylene	0.055		0.734	0.599		mg/Kg	☼	74	42 - 100	4	20
Anthracene	0.052		0.734	0.612		mg/Kg	☼	76	43 - 100	5	20
Benzo[a]anthracene	0.16		0.734	0.721		mg/Kg	☼	77	43 - 100	7	20

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: 180-68219-12 MSD
Matrix: Solid
Analysis Batch: 217354

Client Sample ID: W6, S4, C 071317
Prep Type: Total/NA
Prep Batch: 217309

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzo[a]pyrene	0.15		0.734	0.679		mg/Kg	☼	72	43 - 100	2	20
Benzo[b]fluoranthene	0.19		0.734	0.638		mg/Kg	☼	61	40 - 100	1	20
Benzo[g,h,i]perylene	0.16		0.734	0.821		mg/Kg	☼	90	41 - 102	2	20
Benzo[k]fluoranthene	0.073		0.734	0.570		mg/Kg	☼	68	44 - 100	7	20
Chrysene	0.16		0.734	0.721		mg/Kg	☼	76	44 - 100	3	20
Dibenz(a,h)anthracene	0.040		0.734	0.675		mg/Kg	☼	86	40 - 104	4	26
Dibenzofuran	0.020	J	0.734	0.571		mg/Kg	☼	75	42 - 100	5	23
2,4-Dinitrotoluene	ND		0.734	0.584		mg/Kg	☼	80	42 - 110	4	21
1,4-Dioxane	ND		0.734	0.393		mg/Kg	☼	54	19 - 107	6	20
Fluoranthene	0.22		0.734	0.764		mg/Kg	☼	73	41 - 104	2	20
Fluorene	0.011	J	0.734	0.570		mg/Kg	☼	76	41 - 100	3	21
Hexachlorobenzene	ND		0.734	0.594		mg/Kg	☼	81	43 - 100	2	21
Hexachlorobutadiene	ND		0.734	0.507		mg/Kg	☼	69	35 - 100	5	20
Hexachloroethane	ND		0.734	0.446		mg/Kg	☼	61	35 - 100	4	20
Indeno[1,2,3-cd]pyrene	0.13		0.734	0.759		mg/Kg	☼	86	41 - 104	4	25
2-Methylphenol	ND		0.734	0.485		mg/Kg	☼	66	38 - 100	4	20
Methylphenol, 3 & 4	ND		0.734	0.512		mg/Kg	☼	70	40 - 100	1	20
Naphthalene	0.053		0.734	0.553		mg/Kg	☼	68	38 - 100	3	20
Nitrobenzene	ND		0.734	0.499		mg/Kg	☼	68	34 - 100	6	20
Pentachlorophenol	ND		1.47	0.820		mg/Kg	☼	56	34 - 102	4	20
Phenanthrene	0.14		0.734	0.711		mg/Kg	☼	78	41 - 100	3	20
Phenol	ND		0.734	0.468		mg/Kg	☼	64	36 - 100	2	20
Pyrene	0.24		0.734	0.874		mg/Kg	☼	87	42 - 100	4	21
Pyridine	ND	F1	1.47	0.312	F1	mg/Kg	☼	21	25 - 119	18	20
2,4,5-Trichlorophenol	ND		0.734	0.537		mg/Kg	☼	73	42 - 100	4	22
2,4,6-Trichlorophenol	ND		0.734	0.572		mg/Kg	☼	78	41 - 103	4	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl	*73*		*42 - 100*
2-Fluorophenol (Surr)	*58*		*21 - 107*
Nitrobenzene-d5 (Surr)	*66*		*35 - 109*
Phenol-d5 (Surr)	*63*		*29 - 105*
Terphenyl-d14 (Surr)	*78*		*36 - 113*
2,4,6-Tribromophenol (Surr)	*79*		*20 - 134*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 180-217194/1-A
Matrix: Solid
Analysis Batch: 217206

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 217194

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.017	0.0088	mg/Kg		07/16/17 13:30	07/17/17 07:09	1
PCB-1221	ND		0.017	0.0086	mg/Kg		07/16/17 13:30	07/17/17 07:09	1
PCB-1232	ND		0.017	0.0066	mg/Kg		07/16/17 13:30	07/17/17 07:09	1
PCB-1242	ND		0.017	0.013	mg/Kg		07/16/17 13:30	07/17/17 07:09	1
PCB-1248	ND		0.017	0.0080	mg/Kg		07/16/17 13:30	07/17/17 07:09	1
PCB-1254	ND		0.017	0.0073	mg/Kg		07/16/17 13:30	07/17/17 07:09	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: MB 180-217194/1-A
Matrix: Solid
Analysis Batch: 217206

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 217194

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1260	ND		0.017	0.011	mg/Kg		07/16/17 13:30	07/17/17 07:09	1
PCB-1262	ND		0.017	0.012	mg/Kg		07/16/17 13:30	07/17/17 07:09	1
PCB-1268	ND		0.017	0.0051	mg/Kg		07/16/17 13:30	07/17/17 07:09	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*99*		*23 - 150*	*07/16/17 13:30*	*07/17/17 07:09*	*1*
DCB Decachlorobiphenyl (Surr)	*105*		*23 - 150*	*07/16/17 13:30*	*07/17/17 07:09*	*1*
Tetrachloro-m-xylene (Surr)	*92*		*27 - 138*	*07/16/17 13:30*	*07/17/17 07:09*	*1*
Tetrachloro-m-xylene (Surr)	*93*		*27 - 138*	*07/16/17 13:30*	*07/17/17 07:09*	*1*

Lab Sample ID: LCS 180-217194/2-A
Matrix: Solid
Analysis Batch: 217206

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 217194

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			1.33	1.09		mg/Kg		82	52 - 126		
PCB-1260			1.33	1.20		mg/Kg		90	50 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*89*		*23 - 150*
DCB Decachlorobiphenyl (Surr)	*99*		*23 - 150*
Tetrachloro-m-xylene (Surr)	*91*		*27 - 138*
Tetrachloro-m-xylene (Surr)	*88*		*27 - 138*

Lab Sample ID: 180-68219-3 MS
Matrix: Solid
Analysis Batch: 217206

Client Sample ID: W6, S1, C 071317
Prep Type: Total/NA
Prep Batch: 217194

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016	ND		1.41	1.51		mg/Kg	☼	107	52 - 126		
PCB-1260	0.15		1.41	1.36		mg/Kg	☼	85	50 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*95*		*23 - 150*
DCB Decachlorobiphenyl (Surr)	*104*		*23 - 150*
Tetrachloro-m-xylene (Surr)	*83*		*27 - 138*
Tetrachloro-m-xylene (Surr)	*82*		*27 - 138*

Lab Sample ID: 180-68219-3 MSD
Matrix: Solid
Analysis Batch: 217206

Client Sample ID: W6, S1, C 071317
Prep Type: Total/NA
Prep Batch: 217194

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	ND		1.41	1.58		mg/Kg	☼	112	52 - 126	5	20
PCB-1260	0.15		1.41	1.37		mg/Kg	☼	86	50 - 130	0	21

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 180-68219-3 MSD
Matrix: Solid
Analysis Batch: 217206

Client Sample ID: W6, S1, C 071317
Prep Type: Total/NA
Prep Batch: 217194

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*91*		*23 - 150*
DCB Decachlorobiphenyl (Surr)	*102*		*23 - 150*
Tetrachloro-m-xylene (Surr)	*83*		*27 - 138*
Tetrachloro-m-xylene (Surr)	*82*		*27 - 138*

Lab Sample ID: MB 180-217313/1-C
Matrix: Solid
Analysis Batch: 217334

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 217313

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.017	0.0088	mg/Kg		07/18/17 03:42	07/18/17 10:26	1
PCB-1221	ND		0.017	0.0086	mg/Kg		07/18/17 03:42	07/18/17 10:26	1
PCB-1232	ND		0.017	0.0066	mg/Kg		07/18/17 03:42	07/18/17 10:26	1
PCB-1242	ND		0.017	0.013	mg/Kg		07/18/17 03:42	07/18/17 10:26	1
PCB-1248	ND		0.017	0.0080	mg/Kg		07/18/17 03:42	07/18/17 10:26	1
PCB-1254	ND		0.017	0.0073	mg/Kg		07/18/17 03:42	07/18/17 10:26	1
PCB-1260	ND		0.017	0.011	mg/Kg		07/18/17 03:42	07/18/17 10:26	1
PCB-1262	ND		0.017	0.012	mg/Kg		07/18/17 03:42	07/18/17 10:26	1
PCB-1268	ND		0.017	0.0051	mg/Kg		07/18/17 03:42	07/18/17 10:26	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*96*		*23 - 150*	*07/18/17 03:42*	*07/18/17 10:26*	*1*
DCB Decachlorobiphenyl (Surr)	*108*		*23 - 150*	*07/18/17 03:42*	*07/18/17 10:26*	*1*
Tetrachloro-m-xylene (Surr)	*93*		*27 - 138*	*07/18/17 03:42*	*07/18/17 10:26*	*1*
Tetrachloro-m-xylene (Surr)	*94*		*27 - 138*	*07/18/17 03:42*	*07/18/17 10:26*	*1*

Lab Sample ID: LCS 180-217313/2-C
Matrix: Solid
Analysis Batch: 217334

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 217313

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	1.33	0.961		mg/Kg		72	52 - 126
PCB-1260	1.33	0.923		mg/Kg		69	50 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*85*		*23 - 150*
DCB Decachlorobiphenyl (Surr)	*90*		*23 - 150*
Tetrachloro-m-xylene (Surr)	*79*		*27 - 138*
Tetrachloro-m-xylene (Surr)	*79*		*27 - 138*

Lab Sample ID: 180-68219-21 MS
Matrix: Solid
Analysis Batch: 217334

Client Sample ID: W7, S4, C 71317
Prep Type: Total/NA
Prep Batch: 217313

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	ND		1.44	1.45		mg/Kg	☼	100	52 - 126
PCB-1260	0.099		1.44	1.05		mg/Kg	☼	66	50 - 130

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 180-68219-21 MS
Matrix: Solid
Analysis Batch: 217334

Client Sample ID: W7, S4, C 71317
Prep Type: Total/NA
Prep Batch: 217313

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*71*		*23 - 150*
DCB Decachlorobiphenyl (Surr)	*77*		*23 - 150*
Tetrachloro-m-xylene (Surr)	*71*		*27 - 138*
Tetrachloro-m-xylene (Surr)	*69*		*27 - 138*

Lab Sample ID: 180-68219-21 MSD
Matrix: Solid
Analysis Batch: 217334

Client Sample ID: W7, S4, C 71317
Prep Type: Total/NA
Prep Batch: 217313

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	ND		1.45	1.67		mg/Kg	☼	115	52 - 126	15	20
PCB-1260	0.099		1.45	1.17		mg/Kg	☼	74	50 - 130	11	21

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*76*		*23 - 150*
DCB Decachlorobiphenyl (Surr)	*84*		*23 - 150*
Tetrachloro-m-xylene (Surr)	*81*		*27 - 138*
Tetrachloro-m-xylene (Surr)	*78*		*27 - 138*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 180-217374/1-A
Matrix: Solid
Analysis Batch: 217700

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 217374

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		1.0	0.44	mg/Kg		07/18/17 10:32	07/20/17 12:29	1
Barium	ND		20	5.4	mg/Kg		07/18/17 10:32	07/20/17 12:29	1
Beryllium	ND		0.40	0.10	mg/Kg		07/18/17 10:32	07/20/17 12:29	1
Cadmium	ND		0.50	0.11	mg/Kg		07/18/17 10:32	07/20/17 12:29	1
Chromium	ND		0.50	0.13	mg/Kg		07/18/17 10:32	07/20/17 12:29	1
Copper	ND		2.5	0.77	mg/Kg		07/18/17 10:32	07/20/17 12:29	1
Lead	ND		1.0	0.33	mg/Kg		07/18/17 10:32	07/20/17 12:29	1
Manganese	ND		1.5	0.41	mg/Kg		07/18/17 10:32	07/20/17 12:29	1
Nickel	ND		4.0	0.90	mg/Kg		07/18/17 10:32	07/20/17 12:29	1
Selenium	ND		1.0	0.40	mg/Kg		07/18/17 10:32	07/20/17 12:29	1
Silver	ND		0.50	0.17	mg/Kg		07/18/17 10:32	07/20/17 12:29	1
Zinc	ND		2.0	1.0	mg/Kg		07/18/17 10:32	07/20/17 12:29	1

Lab Sample ID: LCS 180-217374/2-A
Matrix: Solid
Analysis Batch: 217700

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 217374

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	50.0	51.0		mg/Kg		102	80 - 120
Barium	200	198		mg/Kg		99	80 - 120
Beryllium	5.00	5.03		mg/Kg		101	80 - 120
Cadmium	5.00	5.12		mg/Kg		102	80 - 120

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCS 180-217374/2-A
Matrix: Solid
Analysis Batch: 217700

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 217374

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium	20.0	19.4		mg/Kg		97	80 - 120
Copper	25.0	24.8		mg/Kg		99	80 - 120
Lead	50.0	48.7		mg/Kg		97	80 - 120
Manganese	50.0	49.2		mg/Kg		98	80 - 120
Nickel	50.0	50.6		mg/Kg		101	80 - 120
Selenium	50.0	50.3		mg/Kg		101	80 - 120
Silver	5.00	4.97		mg/Kg		99	80 - 120
Zinc	50.0	49.7		mg/Kg		99	80 - 120

Lab Sample ID: 180-68219-3 MS
Matrix: Solid
Analysis Batch: 217700

Client Sample ID: W6, S1, C 071317
Prep Type: Total/NA
Prep Batch: 217374

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	6.6		53.0	54.0		mg/Kg	☼	89	75 - 125
Barium	85		212	260		mg/Kg	☼	83	75 - 125
Beryllium	0.36	J	5.30	5.04		mg/Kg	☼	88	75 - 125
Cadmium	0.16	J	5.30	4.92		mg/Kg	☼	90	75 - 125
Chromium	9.1		21.2	28.6		mg/Kg	☼	92	75 - 125
Copper	20		26.5	44.7		mg/Kg	☼	91	75 - 125
Lead	31		53.0	76.5		mg/Kg	☼	86	75 - 125
Manganese	370		53.0	501	4	mg/Kg	☼	238	75 - 125
Nickel	17		53.0	69.0		mg/Kg	☼	98	75 - 125
Selenium	ND		53.0	46.4		mg/Kg	☼	88	75 - 125
Silver	ND		5.30	4.82		mg/Kg	☼	91	75 - 125
Zinc	69		53.0	111		mg/Kg	☼	80	75 - 125

Lab Sample ID: 180-68219-3 MSD
Matrix: Solid
Analysis Batch: 217700

Client Sample ID: W6, S1, C 071317
Prep Type: Total/NA
Prep Batch: 217374

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	6.6		51.9	49.8		mg/Kg	☼	83	75 - 125	8	20
Barium	85		208	250		mg/Kg	☼	79	75 - 125	4	20
Beryllium	0.36	J	5.19	4.80		mg/Kg	☼	86	75 - 125	5	20
Cadmium	0.16	J	5.19	4.56		mg/Kg	☼	85	75 - 125	8	20
Chromium	9.1		20.8	27.7		mg/Kg	☼	90	75 - 125	3	20
Copper	20		26.0	43.5		mg/Kg	☼	89	75 - 125	3	20
Lead	31		51.9	70.2		mg/Kg	☼	76	75 - 125	9	20
Manganese	370		51.9	427	4	mg/Kg	☼	101	75 - 125	16	20
Nickel	17		51.9	64.5		mg/Kg	☼	91	75 - 125	7	20
Selenium	ND		51.9	42.2		mg/Kg	☼	81	75 - 125	9	20
Silver	ND		5.19	4.35		mg/Kg	☼	84	75 - 125	10	20
Zinc	69		51.9	108		mg/Kg	☼	75	75 - 125	3	20

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 180-217423/1-A
Matrix: Solid
Analysis Batch: 217578

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 217423

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.033	0.0074	mg/Kg		07/18/17 14:51	07/19/17 12:32	1

Lab Sample ID: LCS 180-217423/2-A
Matrix: Solid
Analysis Batch: 217578

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 217423

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.417	0.454		mg/Kg		109	80 - 120

Lab Sample ID: 180-68219-3 MS
Matrix: Solid
Analysis Batch: 217578

Client Sample ID: W6, S1, C 071317
Prep Type: Total/NA
Prep Batch: 217423

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.12	F2	0.180	0.274		mg/Kg	☼	83	80 - 120

Lab Sample ID: 180-68219-3 MSD
Matrix: Solid
Analysis Batch: 217578

Client Sample ID: W6, S1, C 071317
Prep Type: Total/NA
Prep Batch: 217423

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.12	F2	0.186	0.341	F2	mg/Kg	☼	116	80 - 120	22	20

Method: 2540G - SM 2540G

Lab Sample ID: 180-68219-3 DU
Matrix: Solid
Analysis Batch: 217173

Client Sample ID: W6, S1, C 071317
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	5.6		6.0		%		7	20
Percent Solids	94.4		94.0		%		0.4	20

Lab Sample ID: 180-68219-36 DU
Matrix: Solid
Analysis Batch: 217280

Client Sample ID: W8, S2, C 71317
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	10.0		10.2		%		2	20
Percent Solids	90.0		89.8		%		0.2	20

Lab Sample ID: 180-68219-12 DU
Matrix: Solid
Analysis Batch: 217297

Client Sample ID: W6, S4, C 071317
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	9.8		10.0		%		3	20
Percent Solids	90.2		90.0		%		0.3	20

Method: 2540G - SM 2540G (Continued)

Lab Sample ID: 180-68219-34 DU
Matrix: Solid
Analysis Batch: 217301

Client Sample ID: W8, S2, A 71317
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	9.8			11.1		%				12	20
Percent Moisture	9.8			11.1		%				12	20
Percent Solids	90.2			88.9		%				1	20
Percent Solids	90.2			88.9		%				1	20

Lab Sample ID: 180-68219-35 DU
Matrix: Solid
Analysis Batch: 217301

Client Sample ID: W8, S2, B 71317
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	10			9.5		%				5	20
Percent Moisture	10			9.5		%				5	20
Percent Solids	90.0			90.5		%				0.5	20
Percent Solids	90.0			90.5		%				0.5	20

Method: 9014 - Cyanide

Lab Sample ID: MB 180-217382/4-A
Matrix: Solid
Analysis Batch: 217445

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 217382

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.50	0.15	mg/Kg		07/18/17 10:56	07/18/17 14:05	1

Lab Sample ID: HLCS 180-217382/2-A
Matrix: Solid
Analysis Batch: 217445

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 217382

Analyte			Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cyanide, Total			0.250	0.248		mg/Kg		99	90 - 110		

Lab Sample ID: LCS 180-217382/3-A
Matrix: Solid
Analysis Batch: 217445

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 217382

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cyanide, Total			158	106		mg/Kg		67	38 - 162		

Lab Sample ID: LLCS 180-217382/1-A
Matrix: Solid
Analysis Batch: 217445

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 217382

Analyte			Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cyanide, Total			0.0500	0.0493		mg/Kg		99	90 - 110		

Method: 9014 - Cyanide (Continued)

Lab Sample ID: 180-68219-3 MS
Matrix: Solid
Analysis Batch: 217445

Client Sample ID: W6, S1, C 071317
Prep Type: Total/NA
Prep Batch: 217382

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	ND		4.77	4.73		mg/Kg	☼	99	75 - 125

Lab Sample ID: 180-68219-3 MSD
Matrix: Solid
Analysis Batch: 217445

Client Sample ID: W6, S1, C 071317
Prep Type: Total/NA
Prep Batch: 217382

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cyanide, Total	ND		4.82	4.67		mg/Kg	☼	97	75 - 125	1	20

Lab Sample ID: MB 180-217386/4-A
Matrix: Solid
Analysis Batch: 217445

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 217386

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.50	0.15	mg/Kg		07/18/17 10:56	07/18/17 14:58	1

Lab Sample ID: HLCS 180-217386/2-A
Matrix: Solid
Analysis Batch: 217445

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 217386

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.250	0.247		mg/Kg		99	90 - 110

Lab Sample ID: LCS 180-217386/3-A
Matrix: Solid
Analysis Batch: 217445

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 217386

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	158	108		mg/Kg		69	38 - 162

Lab Sample ID: LLCS 180-217386/1-A
Matrix: Solid
Analysis Batch: 217445

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 217386

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.0500	0.0501		mg/Kg		100	90 - 110

Lab Sample ID: 180-68219-30 MS
Matrix: Solid
Analysis Batch: 217445

Client Sample ID: W7, S1, C 71317
Prep Type: Total/NA
Prep Batch: 217386

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.42	J	5.13	5.50		mg/Kg	☼	99	75 - 125

Lab Sample ID: 180-68219-30 MSD
Matrix: Solid
Analysis Batch: 217445

Client Sample ID: W7, S1, C 71317
Prep Type: Total/NA
Prep Batch: 217386

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cyanide, Total	0.42	J	5.33	5.45		mg/Kg	☼	94	75 - 125	1	20

GC/MS VOA

Analysis Batch: 217209

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68219-37	W8, S3, A 71317	Total/NA	Solid	8260C	217220
180-68219-38	W8, S3, B 71317	Total/NA	Solid	8260C	217220
MB 180-217209/11	Method Blank	Total/NA	Solid	8260C	
LCS 180-217209/4	Lab Control Sample	Total/NA	Solid	8260C	
180-68219-38 MS	W8, S3, B 71317	Total/NA	Solid	8260C	217220
180-68219-38 MSD	W8, S3, B 71317	Total/NA	Solid	8260C	217220

Prep Batch: 217220

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68219-37	W8, S3, A 71317	Total/NA	Solid	5035	
180-68219-38	W8, S3, B 71317	Total/NA	Solid	5035	
180-68219-38 MS	W8, S3, B 71317	Total/NA	Solid	5035	
180-68219-38 MSD	W8, S3, B 71317	Total/NA	Solid	5035	

Analysis Batch: 217322

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68219-50	DUP-11	Total/NA	Solid	8260C	217331
180-68219-51	DUP-12	Total/NA	Solid	8260C	217331
180-68219-52	DUP-13	Total/NA	Solid	8260C	217331
MB 180-217322/9	Method Blank	Total/NA	Solid	8260C	
LCS 180-217322/4	Lab Control Sample	Total/NA	Solid	8260C	

Prep Batch: 217331

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68219-50	DUP-11	Total/NA	Solid	5035	
180-68219-51	DUP-12	Total/NA	Solid	5035	
180-68219-52	DUP-13	Total/NA	Solid	5035	

Analysis Batch: 217455

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68219-55	TRIP BLANK 1	Total/NA	Water	8260C	
180-68219-56	TRIP BLANK 2	Total/NA	Water	8260C	
180-68219-57	TRIP BLANK 3	Total/NA	Water	8260C	
180-68219-58	TRIP BLANK 4	Total/NA	Water	8260C	
MB 180-217455/5	Method Blank	Total/NA	Water	8260C	
LCS 180-217455/3	Lab Control Sample	Total/NA	Water	8260C	

Analysis Batch: 217471

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68219-1	W6, S1, A 071317	Total/NA	Solid	8260C	217488
180-68219-2	W6, S1, B 071317	Total/NA	Solid	8260C	217488
180-68219-4	W6, S2, A 071317	Total/NA	Solid	8260C	217488
180-68219-5	W6, S2, B 071317	Total/NA	Solid	8260C	217488
180-68219-7	W6, S3, A 071317	Total/NA	Solid	8260C	217488
180-68219-8	W6, S3, B 071317	Total/NA	Solid	8260C	217488
180-68219-10	W6, S4, A 071317	Total/NA	Solid	8260C	217488
180-68219-11	W6, S4, B 071317	Total/NA	Solid	8260C	217488
180-68219-20	W7, S4, B 71317	Total/NA	Solid	8260C	217488
180-68219-22	W7, S3, A 71317	Total/NA	Solid	8260C	217488
180-68219-23	W7, S3, B 71317	Total/NA	Solid	8260C	217488
180-68219-25	W7, S2, A 71317	Total/NA	Solid	8260C	217488

GC/MS VOA (Continued)

Analysis Batch: 217471 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68219-26	W7, S2, B 71317	Total/NA	Solid	8260C	217488
180-68219-28	W7, S1, A 71317	Total/NA	Solid	8260C	217488
180-68219-29	W7, S1, B 71317	Total/NA	Solid	8260C	217488
180-68219-31	W8, S1, A 71317	Total/NA	Solid	8260C	217488
180-68219-32	W8, S1, B 71317	Total/NA	Solid	8260C	217488
180-68219-35	W8, S2, B 71317	Total/NA	Solid	8260C	217488
180-68219-53	DUP-9	Total/NA	Solid	8260C	217488
MB 180-217471/9	Method Blank	Total/NA	Solid	8260C	
LCS 180-217471/4	Lab Control Sample	Total/NA	Solid	8260C	
180-68219-1 MS	W6, S1, A 071317	Total/NA	Solid	8260C	217488
180-68219-1 MSD	W6, S1, A 071317	Total/NA	Solid	8260C	217488

Prep Batch: 217488

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68219-1	W6, S1, A 071317	Total/NA	Solid	5035	
180-68219-2	W6, S1, B 071317	Total/NA	Solid	5035	
180-68219-4	W6, S2, A 071317	Total/NA	Solid	5035	
180-68219-5	W6, S2, B 071317	Total/NA	Solid	5035	
180-68219-7	W6, S3, A 071317	Total/NA	Solid	5035	
180-68219-8	W6, S3, B 071317	Total/NA	Solid	5035	
180-68219-10	W6, S4, A 071317	Total/NA	Solid	5035	
180-68219-11	W6, S4, B 071317	Total/NA	Solid	5035	
180-68219-20	W7, S4, B 71317	Total/NA	Solid	5035	
180-68219-22	W7, S3, A 71317	Total/NA	Solid	5035	
180-68219-23	W7, S3, B 71317	Total/NA	Solid	5035	
180-68219-25	W7, S2, A 71317	Total/NA	Solid	5035	
180-68219-26	W7, S2, B 71317	Total/NA	Solid	5035	
180-68219-28	W7, S1, A 71317	Total/NA	Solid	5035	
180-68219-29	W7, S1, B 71317	Total/NA	Solid	5035	
180-68219-31	W8, S1, A 71317	Total/NA	Solid	5035	
180-68219-32	W8, S1, B 71317	Total/NA	Solid	5035	
180-68219-35	W8, S2, B 71317	Total/NA	Solid	5035	
180-68219-53	DUP-9	Total/NA	Solid	5035	
180-68219-1 MS	W6, S1, A 071317	Total/NA	Solid	5035	
180-68219-1 MSD	W6, S1, A 071317	Total/NA	Solid	5035	

Analysis Batch: 217610

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68219-13	W6, S5, A 071317	Total/NA	Solid	8260C	217616
180-68219-14	W6, S5, B 071317	Total/NA	Solid	8260C	217616
180-68219-16	W7, S5, A 71317	Total/NA	Solid	8260C	217616
180-68219-17	W7, S5, B 71317	Total/NA	Solid	8260C	217616
180-68219-19	W7, S4, A 71317	Total/NA	Solid	8260C	217616
180-68219-34	W8, S2, A 71317	Total/NA	Solid	8260C	217616
MB 180-217610/9	Method Blank	Total/NA	Solid	8260C	
LCS 180-217610/4	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 180-217610/5	Lab Control Sample Dup	Total/NA	Solid	8260C	

Prep Batch: 217616

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68219-13	W6, S5, A 071317	Total/NA	Solid	5035	

GC/MS VOA (Continued)

Prep Batch: 217616 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68219-14	W6, S5, B 071317	Total/NA	Solid	5035	
180-68219-16	W7, S5, A 71317	Total/NA	Solid	5035	
180-68219-17	W7, S5, B 71317	Total/NA	Solid	5035	
180-68219-19	W7, S4, A 71317	Total/NA	Solid	5035	
180-68219-34	W8, S2, A 71317	Total/NA	Solid	5035	

GC/MS Semi VOA

Prep Batch: 217139

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68219-3	W6, S1, C 071317	Total/NA	Solid	3541	
180-68219-6	W6, S2, C 071317	Total/NA	Solid	3541	
180-68219-15	W6, S5, C 071317	Total/NA	Solid	3541	
180-68219-18	W7, S5, C 71317	Total/NA	Solid	3541	
180-68219-24	W7, S3, C 71317	Total/NA	Solid	3541	
180-68219-27	W7, S2, C 71317	Total/NA	Solid	3541	
180-68219-30	W7, S1, C 71317	Total/NA	Solid	3541	
180-68219-33	W8, S1, C 71317	Total/NA	Solid	3541	
180-68219-36	W8, S2, C 71317	Total/NA	Solid	3541	
MB 180-217139/1-A	Method Blank	Total/NA	Solid	3541	
LCS 180-217139/2-A	Lab Control Sample	Total/NA	Solid	3541	
180-68219-3 MS	W6, S1, C 071317	Total/NA	Solid	3541	
180-68219-3 MSD	W6, S1, C 071317	Total/NA	Solid	3541	

Analysis Batch: 217155

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68219-3	W6, S1, C 071317	Total/NA	Solid	8270D LL	217139
MB 180-217139/1-A	Method Blank	Total/NA	Solid	8270D LL	217139
LCS 180-217139/2-A	Lab Control Sample	Total/NA	Solid	8270D LL	217139
180-68219-3 MS	W6, S1, C 071317	Total/NA	Solid	8270D LL	217139
180-68219-3 MSD	W6, S1, C 071317	Total/NA	Solid	8270D LL	217139

Prep Batch: 217195

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68219-9	W6, S3, C 071317	Total/NA	Solid	3541	
180-68219-39 - DL	W8, S3, C 71317	Total/NA	Solid	3541	
180-68219-39	W8, S3, C 71317	Total/NA	Solid	3541	
180-68219-54	DUP-10	Total/NA	Solid	3541	
MB 180-217195/1-A	Method Blank	Total/NA	Solid	3541	
LCS 180-217195/2-A	Lab Control Sample	Total/NA	Solid	3541	
LCSD 180-217195/3-A	Lab Control Sample Dup	Total/NA	Solid	3541	

Analysis Batch: 217231

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68219-9	W6, S3, C 071317	Total/NA	Solid	8270D LL	217195
180-68219-39	W8, S3, C 71317	Total/NA	Solid	8270D LL	217195
180-68219-54	DUP-10	Total/NA	Solid	8270D LL	217195
MB 180-217195/1-A	Method Blank	Total/NA	Solid	8270D LL	217195
LCS 180-217195/2-A	Lab Control Sample	Total/NA	Solid	8270D LL	217195
LCSD 180-217195/3-A	Lab Control Sample Dup	Total/NA	Solid	8270D LL	217195

GC/MS Semi VOA (Continued)

Analysis Batch: 217242

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68219-6	W6, S2, C 071317	Total/NA	Solid	8270D LL	217139
180-68219-15	W6, S5, C 071317	Total/NA	Solid	8270D LL	217139
180-68219-18	W7, S5, C 71317	Total/NA	Solid	8270D LL	217139
180-68219-24	W7, S3, C 71317	Total/NA	Solid	8270D LL	217139
180-68219-27	W7, S2, C 71317	Total/NA	Solid	8270D LL	217139
180-68219-30	W7, S1, C 71317	Total/NA	Solid	8270D LL	217139
180-68219-33	W8, S1, C 71317	Total/NA	Solid	8270D LL	217139
180-68219-36	W8, S2, C 71317	Total/NA	Solid	8270D LL	217139
MB 180-217139/1-A	Method Blank	Total/NA	Solid	8270D LL	217139

Prep Batch: 217309

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68219-12	W6, S4, C 071317	Total/NA	Solid	3541	
180-68219-21	W7, S4, C 71317	Total/NA	Solid	3541	
MB 180-217309/1-A	Method Blank	Total/NA	Solid	3541	
LCS 180-217309/2-A	Lab Control Sample	Total/NA	Solid	3541	
180-68219-12 MS	W6, S4, C 071317	Total/NA	Solid	3541	
180-68219-12 MSD	W6, S4, C 071317	Total/NA	Solid	3541	

Analysis Batch: 217354

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68219-12	W6, S4, C 071317	Total/NA	Solid	8270D LL	217309
180-68219-21	W7, S4, C 71317	Total/NA	Solid	8270D LL	217309
180-68219-39 - DL	W8, S3, C 71317	Total/NA	Solid	8270D LL	217195
MB 180-217309/1-A	Method Blank	Total/NA	Solid	8270D LL	217309
LCS 180-217309/2-A	Lab Control Sample	Total/NA	Solid	8270D LL	217309
180-68219-12 MS	W6, S4, C 071317	Total/NA	Solid	8270D LL	217309
180-68219-12 MSD	W6, S4, C 071317	Total/NA	Solid	8270D LL	217309

GC Semi VOA

Prep Batch: 217194

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68219-3	W6, S1, C 071317	Total/NA	Solid	3541	
180-68219-6	W6, S2, C 071317	Total/NA	Solid	3541	
180-68219-9	W6, S3, C 071317	Total/NA	Solid	3541	
180-68219-15	W6, S5, C 071317	Total/NA	Solid	3541	
180-68219-18	W7, S5, C 71317	Total/NA	Solid	3541	
180-68219-24	W7, S3, C 71317	Total/NA	Solid	3541	
180-68219-27	W7, S2, C 71317	Total/NA	Solid	3541	
180-68219-30	W7, S1, C 71317	Total/NA	Solid	3541	
180-68219-33	W8, S1, C 71317	Total/NA	Solid	3541	
180-68219-36	W8, S2, C 71317	Total/NA	Solid	3541	
180-68219-39	W8, S3, C 71317	Total/NA	Solid	3541	
180-68219-54	DUP-10	Total/NA	Solid	3541	
MB 180-217194/1-A	Method Blank	Total/NA	Solid	3541	
LCS 180-217194/2-A	Lab Control Sample	Total/NA	Solid	3541	
180-68219-3 MS	W6, S1, C 071317	Total/NA	Solid	3541	
180-68219-3 MSD	W6, S1, C 071317	Total/NA	Solid	3541	

GC Semi VOA (Continued)

Analysis Batch: 217206

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68219-3	W6, S1, C 071317	Total/NA	Solid	8082A	217333
180-68219-6	W6, S2, C 071317	Total/NA	Solid	8082A	217333
180-68219-9	W6, S3, C 071317	Total/NA	Solid	8082A	217333
180-68219-15	W6, S5, C 071317	Total/NA	Solid	8082A	217333
180-68219-18	W7, S5, C 71317	Total/NA	Solid	8082A	217333
180-68219-24	W7, S3, C 71317	Total/NA	Solid	8082A	217333
180-68219-30	W7, S1, C 71317	Total/NA	Solid	8082A	217333
180-68219-33	W8, S1, C 71317	Total/NA	Solid	8082A	217333
180-68219-36	W8, S2, C 71317	Total/NA	Solid	8082A	217333
180-68219-39	W8, S3, C 71317	Total/NA	Solid	8082A	217333
180-68219-54	DUP-10	Total/NA	Solid	8082A	217333
MB 180-217194/1-A	Method Blank	Total/NA	Solid	8082A	217194
LCS 180-217194/2-A	Lab Control Sample	Total/NA	Solid	8082A	217194
180-68219-3 MS	W6, S1, C 071317	Total/NA	Solid	8082A	217333
180-68219-3 MSD	W6, S1, C 071317	Total/NA	Solid	8082A	217333

Prep Batch: 217313

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68219-12	W6, S4, C 071317	Total/NA	Solid	3541	
180-68219-21	W7, S4, C 71317	Total/NA	Solid	3541	
MB 180-217313/1-C	Method Blank	Total/NA	Solid	3541	
LCS 180-217313/2-C	Lab Control Sample	Total/NA	Solid	3541	
180-68219-21 MS	W7, S4, C 71317	Total/NA	Solid	3541	
180-68219-21 MSD	W7, S4, C 71317	Total/NA	Solid	3541	

Cleanup Batch: 217332

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68219-3	W6, S1, C 071317	Total/NA	Solid	3665A	217194
180-68219-6	W6, S2, C 071317	Total/NA	Solid	3665A	217194
180-68219-9	W6, S3, C 071317	Total/NA	Solid	3665A	217194
180-68219-15	W6, S5, C 071317	Total/NA	Solid	3665A	217194
180-68219-18	W7, S5, C 71317	Total/NA	Solid	3665A	217194
180-68219-24	W7, S3, C 71317	Total/NA	Solid	3665A	217194
180-68219-27	W7, S2, C 71317	Total/NA	Solid	3665A	217194
180-68219-30	W7, S1, C 71317	Total/NA	Solid	3665A	217194
180-68219-33	W8, S1, C 71317	Total/NA	Solid	3665A	217194
180-68219-36	W8, S2, C 71317	Total/NA	Solid	3665A	217194
180-68219-39	W8, S3, C 71317	Total/NA	Solid	3665A	217194
180-68219-54	DUP-10	Total/NA	Solid	3665A	217194
180-68219-3 MS	W6, S1, C 071317	Total/NA	Solid	3665A	217194
180-68219-3 MSD	W6, S1, C 071317	Total/NA	Solid	3665A	217194

Cleanup Batch: 217333

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68219-3	W6, S1, C 071317	Total/NA	Solid	3660B	217332
180-68219-6	W6, S2, C 071317	Total/NA	Solid	3660B	217332
180-68219-9	W6, S3, C 071317	Total/NA	Solid	3660B	217332
180-68219-15	W6, S5, C 071317	Total/NA	Solid	3660B	217332
180-68219-18	W7, S5, C 71317	Total/NA	Solid	3660B	217332
180-68219-24	W7, S3, C 71317	Total/NA	Solid	3660B	217332
180-68219-27	W7, S2, C 71317	Total/NA	Solid	3660B	217332

GC Semi VOA (Continued)

Cleanup Batch: 217333 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68219-30	W7, S1, C 71317	Total/NA	Solid	3660B	217332
180-68219-33	W8, S1, C 71317	Total/NA	Solid	3660B	217332
180-68219-36	W8, S2, C 71317	Total/NA	Solid	3660B	217332
180-68219-39	W8, S3, C 71317	Total/NA	Solid	3660B	217332
180-68219-54	DUP-10	Total/NA	Solid	3660B	217332
180-68219-3 MS	W6, S1, C 071317	Total/NA	Solid	3660B	217332
180-68219-3 MSD	W6, S1, C 071317	Total/NA	Solid	3660B	217332

Analysis Batch: 217334

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68219-12	W6, S4, C 071317	Total/NA	Solid	8082A	217366
180-68219-21	W7, S4, C 71317	Total/NA	Solid	8082A	217366
180-68219-27	W7, S2, C 71317	Total/NA	Solid	8082A	217333
MB 180-217313/1-C	Method Blank	Total/NA	Solid	8082A	217366
LCS 180-217313/2-C	Lab Control Sample	Total/NA	Solid	8082A	217366
180-68219-21 MS	W7, S4, C 71317	Total/NA	Solid	8082A	217366
180-68219-21 MSD	W7, S4, C 71317	Total/NA	Solid	8082A	217366

Cleanup Batch: 217365

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68219-12	W6, S4, C 071317	Total/NA	Solid	3665A	217313
180-68219-21	W7, S4, C 71317	Total/NA	Solid	3665A	217313
MB 180-217313/1-C	Method Blank	Total/NA	Solid	3665A	217313
LCS 180-217313/2-C	Lab Control Sample	Total/NA	Solid	3665A	217313
180-68219-21 MS	W7, S4, C 71317	Total/NA	Solid	3665A	217313
180-68219-21 MSD	W7, S4, C 71317	Total/NA	Solid	3665A	217313

Cleanup Batch: 217366

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68219-12	W6, S4, C 071317	Total/NA	Solid	3660B	217365
180-68219-21	W7, S4, C 71317	Total/NA	Solid	3660B	217365
MB 180-217313/1-C	Method Blank	Total/NA	Solid	3660B	217365
LCS 180-217313/2-C	Lab Control Sample	Total/NA	Solid	3660B	217365
180-68219-21 MS	W7, S4, C 71317	Total/NA	Solid	3660B	217365
180-68219-21 MSD	W7, S4, C 71317	Total/NA	Solid	3660B	217365

Metals

Prep Batch: 217374

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68219-3	W6, S1, C 071317	Total/NA	Solid	3050B	
180-68219-6	W6, S2, C 071317	Total/NA	Solid	3050B	
180-68219-9	W6, S3, C 071317	Total/NA	Solid	3050B	
180-68219-12	W6, S4, C 071317	Total/NA	Solid	3050B	
180-68219-15	W6, S5, C 071317	Total/NA	Solid	3050B	
180-68219-18	W7, S5, C 71317	Total/NA	Solid	3050B	
180-68219-21	W7, S4, C 71317	Total/NA	Solid	3050B	
180-68219-24	W7, S3, C 71317	Total/NA	Solid	3050B	
180-68219-27	W7, S2, C 71317	Total/NA	Solid	3050B	
180-68219-30	W7, S1, C 71317	Total/NA	Solid	3050B	

Metals (Continued)

Prep Batch: 217374 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68219-33	W8, S1, C 71317	Total/NA	Solid	3050B	
180-68219-36	W8, S2, C 71317	Total/NA	Solid	3050B	
180-68219-39	W8, S3, C 71317	Total/NA	Solid	3050B	
180-68219-54	DUP-10	Total/NA	Solid	3050B	
MB 180-217374/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 180-217374/2-A	Lab Control Sample	Total/NA	Solid	3050B	
180-68219-3 MS	W6, S1, C 071317	Total/NA	Solid	3050B	
180-68219-3 MSD	W6, S1, C 071317	Total/NA	Solid	3050B	

Prep Batch: 217423

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68219-3	W6, S1, C 071317	Total/NA	Solid	7471B	
180-68219-6	W6, S2, C 071317	Total/NA	Solid	7471B	
180-68219-9	W6, S3, C 071317	Total/NA	Solid	7471B	
180-68219-12	W6, S4, C 071317	Total/NA	Solid	7471B	
180-68219-15	W6, S5, C 071317	Total/NA	Solid	7471B	
180-68219-18	W7, S5, C 71317	Total/NA	Solid	7471B	
180-68219-21	W7, S4, C 71317	Total/NA	Solid	7471B	
180-68219-24	W7, S3, C 71317	Total/NA	Solid	7471B	
180-68219-27	W7, S2, C 71317	Total/NA	Solid	7471B	
180-68219-30	W7, S1, C 71317	Total/NA	Solid	7471B	
180-68219-33	W8, S1, C 71317	Total/NA	Solid	7471B	
180-68219-36	W8, S2, C 71317	Total/NA	Solid	7471B	
180-68219-39	W8, S3, C 71317	Total/NA	Solid	7471B	
180-68219-54	DUP-10	Total/NA	Solid	7471B	
MB 180-217423/1-A	Method Blank	Total/NA	Solid	7471B	
LCS 180-217423/2-A	Lab Control Sample	Total/NA	Solid	7471B	
180-68219-3 MS	W6, S1, C 071317	Total/NA	Solid	7471B	
180-68219-3 MSD	W6, S1, C 071317	Total/NA	Solid	7471B	

Analysis Batch: 217578

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68219-3	W6, S1, C 071317	Total/NA	Solid	7471B	217423
180-68219-6	W6, S2, C 071317	Total/NA	Solid	7471B	217423
180-68219-9	W6, S3, C 071317	Total/NA	Solid	7471B	217423
180-68219-12	W6, S4, C 071317	Total/NA	Solid	7471B	217423
180-68219-15	W6, S5, C 071317	Total/NA	Solid	7471B	217423
180-68219-18	W7, S5, C 71317	Total/NA	Solid	7471B	217423
180-68219-21	W7, S4, C 71317	Total/NA	Solid	7471B	217423
180-68219-24	W7, S3, C 71317	Total/NA	Solid	7471B	217423
180-68219-27	W7, S2, C 71317	Total/NA	Solid	7471B	217423
180-68219-30	W7, S1, C 71317	Total/NA	Solid	7471B	217423
180-68219-33	W8, S1, C 71317	Total/NA	Solid	7471B	217423
180-68219-36	W8, S2, C 71317	Total/NA	Solid	7471B	217423
180-68219-39	W8, S3, C 71317	Total/NA	Solid	7471B	217423
180-68219-54	DUP-10	Total/NA	Solid	7471B	217423
MB 180-217423/1-A	Method Blank	Total/NA	Solid	7471B	217423
LCS 180-217423/2-A	Lab Control Sample	Total/NA	Solid	7471B	217423
180-68219-3 MS	W6, S1, C 071317	Total/NA	Solid	7471B	217423
180-68219-3 MSD	W6, S1, C 071317	Total/NA	Solid	7471B	217423

Metals (Continued)

Analysis Batch: 217700

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68219-3	W6, S1, C 071317	Total/NA	Solid	6010C	217374
180-68219-6	W6, S2, C 071317	Total/NA	Solid	6010C	217374
180-68219-9	W6, S3, C 071317	Total/NA	Solid	6010C	217374
180-68219-12	W6, S4, C 071317	Total/NA	Solid	6010C	217374
180-68219-15	W6, S5, C 071317	Total/NA	Solid	6010C	217374
180-68219-18	W7, S5, C 71317	Total/NA	Solid	6010C	217374
180-68219-21	W7, S4, C 71317	Total/NA	Solid	6010C	217374
180-68219-24	W7, S3, C 71317	Total/NA	Solid	6010C	217374
180-68219-27	W7, S2, C 71317	Total/NA	Solid	6010C	217374
180-68219-30	W7, S1, C 71317	Total/NA	Solid	6010C	217374
180-68219-33	W8, S1, C 71317	Total/NA	Solid	6010C	217374
180-68219-36	W8, S2, C 71317	Total/NA	Solid	6010C	217374
180-68219-39	W8, S3, C 71317	Total/NA	Solid	6010C	217374
180-68219-54	DUP-10	Total/NA	Solid	6010C	217374
MB 180-217374/1-A	Method Blank	Total/NA	Solid	6010C	217374
LCS 180-217374/2-A	Lab Control Sample	Total/NA	Solid	6010C	217374
180-68219-3 MS	W6, S1, C 071317	Total/NA	Solid	6010C	217374
180-68219-3 MSD	W6, S1, C 071317	Total/NA	Solid	6010C	217374

General Chemistry

Analysis Batch: 217173

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68219-2	W6, S1, B 071317	Total/NA	Solid	2540G	
180-68219-3	W6, S1, C 071317	Total/NA	Solid	2540G	
180-68219-4	W6, S2, A 071317	Total/NA	Solid	2540G	
180-68219-5	W6, S2, B 071317	Total/NA	Solid	2540G	
180-68219-3 DU	W6, S1, C 071317	Total/NA	Solid	2540G	

Analysis Batch: 217280

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68219-6	W6, S2, C 071317	Total/NA	Solid	2540G	
180-68219-9	W6, S3, C 071317	Total/NA	Solid	2540G	
180-68219-15	W6, S5, C 071317	Total/NA	Solid	2540G	
180-68219-18	W7, S5, C 71317	Total/NA	Solid	2540G	
180-68219-24	W7, S3, C 71317	Total/NA	Solid	2540G	
180-68219-27	W7, S2, C 71317	Total/NA	Solid	2540G	
180-68219-30	W7, S1, C 71317	Total/NA	Solid	2540G	
180-68219-33	W8, S1, C 71317	Total/NA	Solid	2540G	
180-68219-36	W8, S2, C 71317	Total/NA	Solid	2540G	
180-68219-39	W8, S3, C 71317	Total/NA	Solid	2540G	
180-68219-54	DUP-10	Total/NA	Solid	2540G	
180-68219-36 DU	W8, S2, C 71317	Total/NA	Solid	2540G	

Analysis Batch: 217297

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68219-1	W6, S1, A 071317	Total/NA	Solid	2540G	
180-68219-7	W6, S3, A 071317	Total/NA	Solid	2540G	
180-68219-8	W6, S3, B 071317	Total/NA	Solid	2540G	
180-68219-10	W6, S4, A 071317	Total/NA	Solid	2540G	

General Chemistry (Continued)

Analysis Batch: 217297 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68219-11	W6, S4, B 071317	Total/NA	Solid	2540G	
180-68219-12	W6, S4, C 071317	Total/NA	Solid	2540G	
180-68219-13	W6, S5, A 071317	Total/NA	Solid	2540G	
180-68219-14	W6, S5, B 071317	Total/NA	Solid	2540G	
180-68219-16	W7, S5, A 71317	Total/NA	Solid	2540G	
180-68219-17	W7, S5, B 71317	Total/NA	Solid	2540G	
180-68219-19	W7, S4, A 71317	Total/NA	Solid	2540G	
180-68219-20	W7, S4, B 71317	Total/NA	Solid	2540G	
180-68219-21	W7, S4, C 71317	Total/NA	Solid	2540G	
180-68219-22	W7, S3, A 71317	Total/NA	Solid	2540G	
180-68219-23	W7, S3, B 71317	Total/NA	Solid	2540G	
180-68219-25	W7, S2, A 71317	Total/NA	Solid	2540G	
180-68219-26	W7, S2, B 71317	Total/NA	Solid	2540G	
180-68219-28	W7, S1, A 71317	Total/NA	Solid	2540G	
180-68219-12 DU	W6, S4, C 071317	Total/NA	Solid	2540G	

Analysis Batch: 217301

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68219-29	W7, S1, B 71317	Total/NA	Solid	2540G	
180-68219-31	W8, S1, A 71317	Total/NA	Solid	2540G	
180-68219-32	W8, S1, B 71317	Total/NA	Solid	2540G	
180-68219-34	W8, S2, A 71317	Total/NA	Solid	2540G	
180-68219-35	W8, S2, B 71317	Total/NA	Solid	2540G	
180-68219-37	W8, S3, A 71317	Total/NA	Solid	2540G	
180-68219-38	W8, S3, B 71317	Total/NA	Solid	2540G	
180-68219-50	DUP-11	Total/NA	Solid	2540G	
180-68219-51	DUP-12	Total/NA	Solid	2540G	
180-68219-52	DUP-13	Total/NA	Solid	2540G	
180-68219-53	DUP-9	Total/NA	Solid	2540G	
180-68219-34 DU	W8, S2, A 71317	Total/NA	Solid	2540G	
180-68219-35 DU	W8, S2, B 71317	Total/NA	Solid	2540G	

Prep Batch: 217382

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68219-3	W6, S1, C 071317	Total/NA	Solid	9010C	
180-68219-6	W6, S2, C 071317	Total/NA	Solid	9010C	
180-68219-9	W6, S3, C 071317	Total/NA	Solid	9010C	
180-68219-12	W6, S4, C 071317	Total/NA	Solid	9010C	
180-68219-15	W6, S5, C 071317	Total/NA	Solid	9010C	
180-68219-18	W7, S5, C 71317	Total/NA	Solid	9010C	
180-68219-21	W7, S4, C 71317	Total/NA	Solid	9010C	
180-68219-24	W7, S3, C 71317	Total/NA	Solid	9010C	
180-68219-27	W7, S2, C 71317	Total/NA	Solid	9010C	
MB 180-217382/4-A	Method Blank	Total/NA	Solid	9010C	
HLCS 180-217382/2-A	Lab Control Sample	Total/NA	Solid	9010C	
LCS 180-217382/3-A	Lab Control Sample	Total/NA	Solid	9010C	
LLCS 180-217382/1-A	Lab Control Sample	Total/NA	Solid	9010C	
180-68219-3 MS	W6, S1, C 071317	Total/NA	Solid	9010C	
180-68219-3 MSD	W6, S1, C 071317	Total/NA	Solid	9010C	

General Chemistry (Continued)

Prep Batch: 217386

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68219-30	W7, S1, C 71317	Total/NA	Solid	9010C	
180-68219-33	W8, S1, C 71317	Total/NA	Solid	9010C	
180-68219-36	W8, S2, C 71317	Total/NA	Solid	9010C	
180-68219-39	W8, S3, C 71317	Total/NA	Solid	9010C	
180-68219-54	DUP-10	Total/NA	Solid	9010C	
MB 180-217386/4-A	Method Blank	Total/NA	Solid	9010C	
HLCS 180-217386/2-A	Lab Control Sample	Total/NA	Solid	9010C	
LCS 180-217386/3-A	Lab Control Sample	Total/NA	Solid	9010C	
LLCS 180-217386/1-A	Lab Control Sample	Total/NA	Solid	9010C	
180-68219-30 MS	W7, S1, C 71317	Total/NA	Solid	9010C	
180-68219-30 MSD	W7, S1, C 71317	Total/NA	Solid	9010C	

Analysis Batch: 217445

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68219-3	W6, S1, C 071317	Total/NA	Solid	9014	217382
180-68219-6	W6, S2, C 071317	Total/NA	Solid	9014	217382
180-68219-9	W6, S3, C 071317	Total/NA	Solid	9014	217382
180-68219-12	W6, S4, C 071317	Total/NA	Solid	9014	217382
180-68219-15	W6, S5, C 071317	Total/NA	Solid	9014	217382
180-68219-18	W7, S5, C 71317	Total/NA	Solid	9014	217382
180-68219-21	W7, S4, C 71317	Total/NA	Solid	9014	217382
180-68219-24	W7, S3, C 71317	Total/NA	Solid	9014	217382
180-68219-27	W7, S2, C 71317	Total/NA	Solid	9014	217382
180-68219-30	W7, S1, C 71317	Total/NA	Solid	9014	217386
180-68219-33	W8, S1, C 71317	Total/NA	Solid	9014	217386
180-68219-36	W8, S2, C 71317	Total/NA	Solid	9014	217386
180-68219-39	W8, S3, C 71317	Total/NA	Solid	9014	217386
180-68219-54	DUP-10	Total/NA	Solid	9014	217386
MB 180-217382/4-A	Method Blank	Total/NA	Solid	9014	217382
MB 180-217386/4-A	Method Blank	Total/NA	Solid	9014	217386
HLCS 180-217382/2-A	Lab Control Sample	Total/NA	Solid	9014	217382
HLCS 180-217386/2-A	Lab Control Sample	Total/NA	Solid	9014	217386
LCS 180-217382/3-A	Lab Control Sample	Total/NA	Solid	9014	217382
LCS 180-217386/3-A	Lab Control Sample	Total/NA	Solid	9014	217386
LLCS 180-217382/1-A	Lab Control Sample	Total/NA	Solid	9014	217382
LLCS 180-217386/1-A	Lab Control Sample	Total/NA	Solid	9014	217386
180-68219-3 MS	W6, S1, C 071317	Total/NA	Solid	9014	217382
180-68219-3 MSD	W6, S1, C 071317	Total/NA	Solid	9014	217382
180-68219-30 MS	W7, S1, C 71317	Total/NA	Solid	9014	217386
180-68219-30 MSD	W7, S1, C 71317	Total/NA	Solid	9014	217386

TestAmerica Pittsburgh
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Pittsburgh, PA 15238
Phone (412) 963-7058 Fax (412) 963-2468

Chain of Custody Record

180-66219 Chain of Custody

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Alexandra Ambrosino	Lab PM: Dunlap, David A	COC No: 180-38494-8381.1
Client Contact: Ashwin Ranna,Aron Krasnopoler	Phone:	E-Mail: david.dunlap@testamericainc.com	Page: Page 1 of 6
Company: Geosyntec Consultants, Inc.			Job #:
Address: Penn Center West One, Suite 402 1 Penn Center West Drive	Due Date Requested:		
City: Pittsburgh	TAT Requested (days): 1 Day		
State, Zip: PA, 15276			
Phone:	PO #: MN0832B		
Email: aranna@geosyntec.com, Akrasnopoler@geosyntec.com	WO #:		
Project Name: Former Sperry Remington Site - North IRM	Project #: 18013464		
Site: Elmira	SSOW#:		

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - VOA-Select List	6010C, 7471B, 9014 - Select ICP Metals, Mercury, Cyanide	8082A, 8270D, PCBs, Select BNA	8260C - VOA-Select List (Trip Blanks only)	Total Number of containers	Special Instructions/Note:
			Preservation Code:		N	N	N	N	N	A		
W6,S1,A 71317	7.13.2017	800	G	Solid	N	Y	X				12	Perform MS MSD 4
W6,S1,B 71317	7.13.2017	805	G	Solid	N	N	X				4	
W6,S1,C 71317	7.13.2017	810	C	Solid	N	Y		X	X		6	Perform MS/MSD 5
W6,S2,A 71317	7.13.2017	820	G	Solid	N	N	X				4	
W6,S2,B 71317	7.13.2017	825	G	Solid	N	N	X			Trip Blank B	4	Rush
W6,S2,C 71317	7.13.2017	830	C	Solid	N	N		X	X		2	
W6,S3,A 71317	7.13.2017	845	G	Solid	N	N	X				4	
W6,S3,B 71317	7.13.2017	850	G	Solid	N	N	X				4	
W6,S3,C 71317	7.13.2017	855	C	Solid	N	N		X	X		2	
W6,S4,A 71317	7.13.2017	915	G	Solid	N	N	X				4	
W6,S4,B 71317	7.13.2017	920	G	Solid	N	N	X				4	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 7/14/17 930	Company TAP
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

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7/27/2017

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Pittsburgh, PA 15238
Phone (412) 963-7058 Fax (412) 963-2468

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Alexandra Ambrosino	Lab PM: Dunlap, David A	Carrier Tracking No(s):	COC No: 180-38494-8381.1
Client Contact: Ashwin Ranna,Aron Krasnopoler	Phone:	E-Mail: david.dunlap@testamericainc.com		Page: Page 2 of 6
Company: Geosyntec Consultants, Inc.				Job #:

Address: Penn Center West One, Suite 402 1 Penn Center West Drive	Due Date Requested:
City: Pittsburgh	TAT Requested (days):
State, Zip: PA, 15276	
Phone:	PO #: MN0832B
Email: aranna@geosyntec.com, Akrasnopoler@geosyntec.com	WO #:
Project Name: Former Sperry Remington Site - North IRM	Project #: 18013464
Site: Elmira	SSOW#:

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - VOA-Select List	6010C, 7471B, 9014 - Select ICP Metals, Mercury, Cyanide	8082A, 8270D, PCBs, Select BNA	8260C - VOA-Select List (Trip Blanks only)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	A		
W6S4,C 71317	71317	925	C	Solid	N			X	X	Trip Blank 3	2	
W6S,5A 71317	7.13.2017	945	G	Solid	N		X				4	
W6S5B 71317	7.13.2017	955	G	Solid	N		X				4	
W6S5C 71317	7.13.2017	1000	C	Solid	N			X	X		2	Rush
W7S5A 71317	7.13.2017	1015	G	Solid	N		X				4	
W7S5,B 71317	7.13.2017	1020	G	Solid	N		X				4	
W7,S5C 71317	7.13.2017	1025	C	Solid	N			X	X	Trip Blank 4	2	
W7,S4A 71317	7.13.2017	1045	G	Solid	N		X				4	
W7,S4,B,71317	7.13.2017	1050	G	Solid	N		X				4	
W7,S4C 71317	7.13.2017	1055	C	Solid	N			X	X		2	
W7,S3,A 71317	7.13.2017	1120	G	Solid	N		X				4	✓

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
				7/14/17 930	TAA
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

7/27/2017

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Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Alexandra Ambrosino	Lab PM: Dunlap, David A	Carrier Tracking No(s):	COC No: 180-38494-8381.1
Client Contact: Ashwin Ranna,Aron Krasnopoler	Phone:	E-Mail: david.dunlap@testamericainc.com		Page: Page 3 of 6
Company: Geosyntec Consultants, Inc.				Job #:
Address: Penn Center West One, Suite 402 1 Penn Center West Drive	Due Date Requested:			
City: Pittsburgh	TAT Requested (days):			
State, Zip: PA, 15276				
Phone:	PO #: MN0832B			
Email: aranna@geosyntec.com, Akrasnopoler@geosyntec.com	WO #:			
Project Name: Former Sperry Remington Site - North IRM	Project #: 18013464			
Site: Elmirap	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - VOA-Select List	6010C, 7471B, 9014 - Select ICP Metals, Mercury, Cyanide	8082A, 8270D, PCBs, Select BNA	8260C - VOA-Select List (Trip Blanks only)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	A		
W7,S3,B 71317	7.13.2017	1135	G	Solid	N		X				4	
W7,S3,C 71317	7.13.2017	1140	C	Solid	N			X	X		2	
W7,S2,A 71317	7.13.2017	1155	G	Solid	N		X				4	Trip Blank 4
W7,S2,B 71317	7.13.2017	1200	G	Solid	N		X				4	
W7,S2,C 71317	7.13.2017	1205	C	Solid	N			X	X		2	Rush
W7,S1,A 71317	7.13.2017	1215	G	Solid	N		X				4	
W7,S1,B 71317	7.13.2017	1220	G	Solid	N		X				4	
W7,S1,C 71317	7.13.2017	1225	C	Solid	N			X	X		2	
W8,S1,A 71317	7.13.2017	1245	G	Solid	N		X				4	
W8,S1 B 71317	7.13.2017	1250	G	Solid	N		X				4	
W8,S1,C 71317	7.13.2017	1255	C	Solid	N			X	X		2	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
				7/14/17 930	TAP
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

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Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Alexandra Ambrosino	Lab PM: Dunlap, David A	Carrier Tracking No(s):	COC No: 180-38494-8381.1
Client Contact: Ashwin Ranna,Aron Krasnopoler	Phone:	E-Mail: david.dunlap@testamericainc.com		Page: Page 1 of 6
Company: Geosyntec Consultants, Inc.				Job #:

Address: Penn Center West One, Suite 402 1 Penn Center West Drive	Due Date Requested:
City: Pittsburgh	TAT Requested (days):
State, Zip: PA, 15276	
Phone:	PO #: MN0832B
Email: aranna@geosyntec.com, Akrasnopoler@geosyntec.com	WO #:
Project Name: Former Sperry Remington Site - North IRM	Project #: 18013464
Site: Elmira	SSOW#:

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - VOA-Select List	6010C, 7471B, 9014 - Select ICP Metals, Mercury, Cyanide	8082A, 8270D, PCBs, Select BNA	8260C - VOA-Select List (Trip Blanks only)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	A		
W8,S2,A 71317	7.13.2017	1315	G	Solid	N		X				4	
W8,S2,B 71317	7.13.2017	1320	G	Solid	N		X				4	
W8,S2C 71317	7.13.2017	1325	C	Solid	N			X	X		2	
W8,S3,A 71317	7.13.2017	1345	G	Solid	N		X				4	
W8,S3,B 71317	7.13.2017	1350	G	Solid	N	Y	X				12	Rush
W8,S3,C 71317	7.13.2017	1355	C	Solid	N			X	X		2	
W4,S1,A 71317	7.13.2017	1415	G	Solid	N		X				4	
W4,S1,B 71317	7.13.2017	1420	G	Solid	N		X				4	
W4,S1,C 71317	7.13.2017		C	Solid	N			X	X		2	
W4,S2,A 71317	7.13.2017	1445	G	Solid	N		X				4	
W4,S2,B 71317	7.13.2017	1450	G	Solid	N		X				4	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 7/14/17 930	Company TAP
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

7/27/2017

TestAmerica Pittsburgh
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Pittsburgh, PA 15238
Phone (412) 963-7058 Fax (412) 963-2468

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Alexandra Ambrosino	Lab PM: Dunlap, David A	Carrier Tracking No(s):	COC No: 180-38494-8381.1
Client Contact: Ashwin Ranna,Aron Krasnopoler	Phone:	E-Mail: david.dunlap@testamericainc.com		Page: Page 5 of 6
Company: Geosyntec Consultants, Inc.				Job #:

Address: Penn Center West One, Suite 402 1 Penn Center West Drive	Due Date Requested:	Analysis Requested	Preservation Codes:
City: Pittsburgh	TAT Requested (days): 1 Day		A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify) Other:
State, Zip: PA, 15276			
Phone:	PO #: MN0832B		
Email: aranna@geosyntec.com, Akrasnopoler@geosyntec.com	WO #:		
Project Name: Former Sperry Remington Site - North IRM	Project #: 18013464		
Site: Elmira	SSOW#:		

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - VOA-Select List	6010C, 7471B, 9014 - Select ICP Metals, Mercury, Cyanide	8082A, 8270D, PCBs, Select BNA	8260C - VOA-Select List (Trip Blanks only)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	A		
~~W4,S3,C 71317~~				Solid								
W4,S4,A 71317	7.13.2017	1515	G	Solid	N	Y	X				12	Perform MS MSD67
W4,S4,B 71317	7.13.2017	1520	G	Solid	N	N	X				4	
W4,S5,A 71317	7.13.2017	1545	G	Solid	N	N	X	*			4	
W4,S5,B 71317	7.13.2017	1550	G	Solid	N	N	X				4	
W4,S2,A 71317	7.13.2017	1600	G	Solid	N	N	X				4	
W4,S3,B 71317	7.13.2017	1605	G	Solid	N	N	X				4	
DUP-11	7.13.2017	—	G	Solid	N	N	X				4	
DUP-12	7.13.2017	—	G	Solid	N	N	X				4	
DUP-13	7.13.2017	—	G	Solid	N	N	X				4	
DUP-9	7.13.2017	—	G	Solid	N	N	X				4	

Rush

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
				7/14/17 930	TAP
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

7/27/2017

TestAmerica Pittsburgh
301 Alpha Drive RIDC Park
Pittsburgh, PA 15238
Phone (412) 963-7058 Fax (412) 963-2468

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Alexandra Ambrosino	Lab PM: Dunlap, David A	Carrier Tracking No(s):	COC No: 180-38494-8381.1
Client Contact: Ashwin Ranna,Aron Krasnopoler	Phone:	E-Mail: david.dunlap@testamericainc.com		Page: Page 6 of 6
Company: Geosyntec Consultants, Inc.				Job #:

Address: Penn Center West One, Suite 402 1 Penn Center West Drive	Due Date Requested:
City: Pittsburgh	TAT Requested (days):
State, Zip: PA, 15276	
Phone:	PO #: MN0832B
Email: aranna@geosyntec.com, Akrasnopoler@geosyntec.com	WO #:
Project Name: Former Sperry Remington Site - North IRM	Project #: 18013464
Site: Elmira	SSOW#:

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - VOA-Select List	6010C, 7471B, 9014 - Select ICP Metals, Mercury, Cyanide	8082A, 8270D, PCBs, Select BNA	8260C - VOA-Select List (Trip Blanks only)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	A		
DUP-10	7.13.2017	—	C	Solid	N	N		X	X		4	Rush
Trip Blank 1	—	—	—	~~W~~ Solid	N	N				X	2	
Trip Blank 2	←	—	—	~~W~~ Solid	N	N				X	2	
Trip Blank 3	—	—	—	~~W~~ Solid	N	N				X	2	
				Solid								
				Solid								
				Solid								
				Solid								
				Solid								
				Solid								
				Solid								

Possible Hazard Identification
☐ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* ☐ *Poison B* ☐ *Unknown* ☐ *Radiological*

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For _____ Months*

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Date/Time:	Company	Received by:	Date/Time:	Company
				7/14/17 930	TAP
	Date/Time:	Company	Received by:	Date/Time:	Company
	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks:

7/27/2017

TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
phone 412.963.7058 fax 412.963.2468

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☑ Other: Ashwin Ranra

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Aron Krasnopoler	Site Contact: ~~Jay Thompson~~	Date: 7.14.2017	COC No: 1 of 1
Geosyntec Consultants	Tel/Fax: 401-381-4333	Lab Contact: Dave Dunlap	Carrier: FedEx	1 of 1 COCs
10211 Wincopin Circle, 4th Floor	Analysis Turnaround Time			Sampler: ARA/AT
Columbia, MD 21044	☐ CALENDAR DAYS ☑ WORKING DAYS			For Lab Use Only:
410-381-4333 Phone	TAT if different from Below _____			Walk-in Client:
410-381-4499 FAX	☐ 2 weeks			Sampling:
Project Name: Former Sperry Remington Site - North	☐ 1 week			
Site: Elmira	☐ 2 days			/ SDG No.:
P O # MN0832B	☑ 1 day			

180-68219-02 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	PCBs - 8082A	~~VOCs - 8260B~~ 8260C/624B	~~TCLP Lead~~ 6010C/7470A	Sample Specific Notes:
W6,S3,C 71317	7.13.2017	855	C	S	2	N	~~N~~	X	X	X	Bottles off from previous COC
MSD-5 [W6,S1,C(713,17)]	7.13.2017	810	C	S	1	N	N	X	X	X	
W6,S2,C 71317	7.13.2017	830	C	S	1	N	N	X	X	X	
W6,S1,G,71317	7.13.2017	810	C	S	1	N	N	X	X	X	
W6,S1,C (MS-5) 7B17	7.13.2017	810	C	S	1	N	N	X	X	X	

Rush

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd: _____ Corr'd: _____		Therm ID No.: _____
Relinquished by: Jay Thompson	Company: Geosyntec	Date/Time: 7.14.2017	Received by:	Company: TAP	Date/Time: 7/14/17 915
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Form No. CA-C-WI-002, Rev. 4.3, dated 12/05/2013

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 180-68219-1

Login Number: 68219
List Number: 1
Creator: Kovitch, Christina M

List Source: TestAmerica Pittsburgh

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	False	not relinquished by client
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

TestAmerica Job ID: 180-68509-1
Client Project/Site: Former Sperry Remington Site - North IRM

For:
Geosyntec Consultants, Inc.
10211 Wincopin Circle
4'th Floor
Columbia, Maryland 21044

Attn: Mr. Aron Krasnopoler

Authorized for release by:
7/28/2017 4:37:35 PM

David Dunlap, Senior Project Manager
(412)963-2432
david.dunlap@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Job ID: 180-68509-1

Laboratory: TestAmerica Pittsburgh

Narrative

Job Narrative
180-68509-1

Receipt
The samples were received on 7/25/2017 9:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 2.6º C, 4.1º C and 4.4º C.

GC/MS VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC/MS Semi VOA
Method(s) 8270D LL: The following samples were diluted due to the nature of the sample matrix (viscous extracts): WB 7-8, S2, C 072417 (180-68509-6), W9, S1, C 072417 (180-68509-15), and DUP 14 (180-68509-24). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc. TestAmerica Job ID: 180-68509-1
Project/Site: Former Sperry Remington Site - North IRM

Laboratory: TestAmerica Pittsburgh

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	11182	03-31-18

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
2540G		Solid	Percent Moisture
2540G		Solid	Percent Solids
8270D LL	3541	Solid	1,4-Dioxane

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68509-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-68509-1	WB 7-8, S1, A 072417	Solid	07/24/17 10:05	07/25/17 09:15
180-68509-2	WB 7-8, S1, B 072417	Solid	07/24/17 10:10	07/25/17 09:15
180-68509-3	WB 7-8, S1, C 072417	Solid	07/24/17 10:20	07/25/17 09:15
180-68509-4	WB 7-8, S2, A 072417	Solid	07/24/17 10:45	07/25/17 09:15
180-68509-5	WB 7-8, S2, B 072417	Solid	07/24/17 10:50	07/25/17 09:15
180-68509-6	WB 7-8, S2, C 072417	Solid	07/24/17 10:55	07/25/17 09:15
180-68509-7	WB 7-8, S3, A 072417	Solid	07/24/17 11:10	07/25/17 09:15
180-68509-8	WB 7-8, S3, B 072417	Solid	07/24/17 11:20	07/25/17 09:15
180-68509-9	WB 7-8, S3, C 072417	Solid	07/24/17 11:30	07/25/17 09:15
180-68509-10	WB 7-8, S4, A 072417	Solid	07/24/17 12:05	07/25/17 09:15
180-68509-11	WB 7-8, S4, B 072417	Solid	07/24/17 12:10	07/25/17 09:15
180-68509-12	WB 7-8, S4, C 072417	Solid	07/24/17 12:15	07/25/17 09:15
180-68509-13	W9, S1, A 072417	Solid	07/24/17 13:10	07/25/17 09:15
180-68509-14	W9, S1, B 072417	Solid	07/24/17 13:15	07/25/17 09:15
180-68509-15	W9, S1, C 072417	Solid	07/24/17 13:20	07/25/17 09:15
180-68509-22	TRIP BLANK	Water	07/24/17 00:00	07/25/17 09:15
180-68509-23	DUP 15	Solid	07/24/17 00:00	07/25/17 09:15
180-68509-24	DUP 14	Solid	07/24/17 00:00	07/25/17 09:15

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68509-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL PIT
8260C	Volatile Organic Compounds (GC/MS)	SW846	TAL PIT
8270D LL	Semivolatile Organic Compounds by GC/MS - Low Level	SW846	TAL PIT
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL PIT
6010C	Metals (ICP)	SW846	TAL PIT
7471B	Mercury (CVAA)	SW846	TAL PIT
2540G	SM 2540G	SM22	TAL PIT
9014	Cyanide	SW846	TAL PIT

Protocol References:

SM22 = SM22

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68509-1

Client Sample ID: WB 7-8, S1, A 072417
Date Collected: 07/24/17 10:05
Date Received: 07/25/17 09:15

Lab Sample ID: 180-68509-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218069	07/25/17 15:39	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: WB 7-8, S1, A 072417
Date Collected: 07/24/17 10:05
Date Received: 07/25/17 09:15

Lab Sample ID: 180-68509-1
Matrix: Solid
Percent Solids: 78.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.7664 g	5 mL	218110	07/26/17 05:40	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	218103	07/26/17 16:12	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: WB 7-8, S1, B 072417
Date Collected: 07/24/17 10:10
Date Received: 07/25/17 09:15

Lab Sample ID: 180-68509-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218069	07/25/17 15:39	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: WB 7-8, S1, B 072417
Date Collected: 07/24/17 10:10
Date Received: 07/25/17 09:15

Lab Sample ID: 180-68509-2
Matrix: Solid
Percent Solids: 70.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.4722 g	5 mL	218110	07/26/17 05:40	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	218103	07/26/17 16:35	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: WB 7-8, S1, C 072417
Date Collected: 07/24/17 10:20
Date Received: 07/25/17 09:15

Lab Sample ID: 180-68509-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218069	07/25/17 15:39	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: WB 7-8, S1, C 072417
Date Collected: 07/24/17 10:20
Date Received: 07/25/17 09:15

Lab Sample ID: 180-68509-3
Matrix: Solid
Percent Solids: 73.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	0.5 mL	218278	07/27/17 11:21	MAL	TAL PIT

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68509-1

Client Sample ID: WB 7-8, S1, C 072417

Lab Sample ID: 180-68509-3
Date Collected: 07/24/17 10:20
Matrix: Solid
Date Received: 07/25/17 09:15
Percent Solids: 73.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8270D LL		1	1 mL	1 mL	218265	07/27/17 20:25	VVP	TAL PIT
	Instrument ID: CH732									
Total/NA	Prep	3541			15.1 g	20.0 mL	218112	07/26/17 08:33	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	218177	07/26/17 13:57	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	218178	07/26/17 13:58	JMO	TAL PIT
Total/NA	Analysis	8082A		1			218100	07/27/17 00:48	JMO	TAL PIT
	Instrument ID: CHGC16									
Total/NA	Prep	3050B			0.98 g	100 mL	218293	07/27/17 12:44	CRM	TAL PIT
Total/NA	Analysis	6010C		1			218421	07/28/17 08:45	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.60 g	100 mL	218097	07/26/17 05:04	RJR	TAL PIT
Total/NA	Analysis	7471B		1			218142	07/26/17 09:20	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.01 g	50 mL	218282	07/27/17 11:19	JAS	TAL PIT
Total/NA	Analysis	9014		1			218335	07/27/17 14:49	JAS	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: WB 7-8, S2, A 072417

Lab Sample ID: 180-68509-4
Date Collected: 07/24/17 10:45
Matrix: Solid
Date Received: 07/25/17 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218069	07/25/17 15:39	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: WB 7-8, S2, A 072417

Lab Sample ID: 180-68509-4
Date Collected: 07/24/17 10:45
Matrix: Solid
Date Received: 07/25/17 09:15
Percent Solids: 79.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.8871 g	5 mL	218110	07/26/17 05:40	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	218103	07/26/17 16:58	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: WB 7-8, S2, B 072417

Lab Sample ID: 180-68509-5
Date Collected: 07/24/17 10:50
Matrix: Solid
Date Received: 07/25/17 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218069	07/25/17 15:39	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68509-1

Client Sample ID: WB 7-8, S2, B 072417
Date Collected: 07/24/17 10:50
Date Received: 07/25/17 09:15

Lab Sample ID: 180-68509-5
Matrix: Solid
Percent Solids: 74.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.683 g	5 mL	218236	07/27/17 05:30	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	218225	07/27/17 12:26	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: WB 7-8, S2, C 072417
Date Collected: 07/24/17 10:55
Date Received: 07/25/17 09:15

Lab Sample ID: 180-68509-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218069	07/25/17 15:39	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: WB 7-8, S2, C 072417
Date Collected: 07/24/17 10:55
Date Received: 07/25/17 09:15

Lab Sample ID: 180-68509-6
Matrix: Solid
Percent Solids: 72.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	0.5 mL	218278	07/27/17 11:21	MAL	TAL PIT
Total/NA	Analysis	8270D LL		2	1 mL	1 mL	218265	07/27/17 20:52	VVP	TAL PIT
	Instrument ID: CH732									
Total/NA	Prep	3541			15.3 g	20.0 mL	218112	07/26/17 08:33	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	218177	07/26/17 13:57	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	218178	07/26/17 13:58	JMO	TAL PIT
Total/NA	Analysis	8082A		1			218100	07/27/17 01:09	JMO	TAL PIT
	Instrument ID: CHGC16									
Total/NA	Prep	3050B			1.00 g	100 mL	218293	07/27/17 12:44	CRM	TAL PIT
Total/NA	Analysis	6010C		1			218421	07/28/17 08:50	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.60 g	100 mL	218097	07/26/17 05:04	RJR	TAL PIT
Total/NA	Analysis	7471B		1			218142	07/26/17 09:22	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.01 g	50 mL	218282	07/27/17 11:19	JAS	TAL PIT
Total/NA	Analysis	9014		1			218335	07/27/17 14:50	JAS	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: WB 7-8, S3, A 072417
Date Collected: 07/24/17 11:10
Date Received: 07/25/17 09:15

Lab Sample ID: 180-68509-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218069	07/25/17 15:39	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: WB 7-8, S3, A 072417

Lab Sample ID: 180-68509-7
Date Collected: 07/24/17 11:10
Matrix: Solid
Date Received: 07/25/17 09:15
Percent Solids: 78.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.0199 g	5 mL	218236	07/27/17 05:30	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	218225	07/27/17 12:49	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: WB 7-8, S3, B 072417

Lab Sample ID: 180-68509-8
Date Collected: 07/24/17 11:20
Matrix: Solid
Date Received: 07/25/17 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218069	07/25/17 15:39	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: WB 7-8, S3, B 072417

Lab Sample ID: 180-68509-8
Date Collected: 07/24/17 11:20
Matrix: Solid
Date Received: 07/25/17 09:15
Percent Solids: 83.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.7011 g	5 mL	218236	07/27/17 05:30	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	218225	07/27/17 13:11	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: WB 7-8, S3, C 072417

Lab Sample ID: 180-68509-9
Date Collected: 07/24/17 11:30
Matrix: Solid
Date Received: 07/25/17 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218069	07/25/17 15:39	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: WB 7-8, S3, C 072417

Lab Sample ID: 180-68509-9
Date Collected: 07/24/17 11:30
Matrix: Solid
Date Received: 07/25/17 09:15
Percent Solids: 77.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	0.5 mL	218278	07/27/17 11:21	MAL	TAL PIT
Total/NA	Analysis	8270D LL		1	1 mL	1 mL	218265	07/27/17 21:19	VVP	TAL PIT
	Instrument ID: CH732									
Total/NA	Prep	3541			15.0 g	20.0 mL	218112	07/26/17 08:33	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	218177	07/26/17 13:57	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	218178	07/26/17 13:58	JMO	TAL PIT
Total/NA	Analysis	8082A		1			218100	07/27/17 01:30	JMO	TAL PIT
	Instrument ID: CHGC16									
Total/NA	Prep	3050B			0.91 g	100 mL	218293	07/27/17 12:44	CRM	TAL PIT

Client Sample ID: WB 7-8, S3, C 072417

Lab Sample ID: 180-68509-9
Date Collected: 07/24/17 11:30
Matrix: Solid
Date Received: 07/25/17 09:15
Percent Solids: 77.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	6010C		1			218421	07/28/17 08:55	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.66 g	100 mL	218097	07/26/17 05:04	RJR	TAL PIT
Total/NA	Analysis	7471B		1			218142	07/26/17 09:24	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.00 g	50 mL	218282	07/27/17 11:19	JAS	TAL PIT
Total/NA	Analysis	9014		1			218335	07/27/17 14:52	JAS	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: WB 7-8, S4, A 072417

Lab Sample ID: 180-68509-10
Date Collected: 07/24/17 12:05
Matrix: Solid
Date Received: 07/25/17 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218069	07/25/17 15:39	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: WB 7-8, S4, A 072417

Lab Sample ID: 180-68509-10
Date Collected: 07/24/17 12:05
Matrix: Solid
Date Received: 07/25/17 09:15
Percent Solids: 71.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.4255 g	5 mL	218236	07/27/17 05:30	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	218225	07/27/17 13:34	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: WB 7-8, S4, B 072417

Lab Sample ID: 180-68509-11
Date Collected: 07/24/17 12:10
Matrix: Solid
Date Received: 07/25/17 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218069	07/25/17 15:39	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: WB 7-8, S4, B 072417

Lab Sample ID: 180-68509-11
Date Collected: 07/24/17 12:10
Matrix: Solid
Date Received: 07/25/17 09:15
Percent Solids: 62.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.5162 g	5 mL	218236	07/27/17 05:30	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	218225	07/27/17 13:57	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: WB 7-8, S4, C 072417

Lab Sample ID: 180-68509-12

Date Collected: 07/24/17 12:15

Matrix: Solid

Date Received: 07/25/17 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218069	07/25/17 15:39	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: WB 7-8, S4, C 072417

Lab Sample ID: 180-68509-12

Date Collected: 07/24/17 12:15

Matrix: Solid

Date Received: 07/25/17 09:15

Percent Solids: 71.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	0.5 mL	218278	07/27/17 11:21	MAL	TAL PIT
Total/NA	Analysis	8270D LL		1	1 mL	1 mL	218265	07/27/17 21:46	VVP	TAL PIT
	Instrument ID: CH732									
Total/NA	Prep	3541			15.2 g	20.0 mL	218112	07/26/17 08:33	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	218177	07/26/17 13:57	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	218178	07/26/17 13:58	JMO	TAL PIT
Total/NA	Analysis	8082A		1			218100	07/27/17 01:50	JMO	TAL PIT
	Instrument ID: CHGC16									
Total/NA	Prep	3050B			1.05 g	100 mL	218293	07/27/17 12:44	CRM	TAL PIT
Total/NA	Analysis	6010C		1			218421	07/28/17 09:00	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.63 g	100 mL	218097	07/26/17 05:04	RJR	TAL PIT
Total/NA	Analysis	7471B		1			218142	07/26/17 09:28	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.01 g	50 mL	218282	07/27/17 11:19	JAS	TAL PIT
Total/NA	Analysis	9014		1			218335	07/27/17 14:54	JAS	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: W9, S1, A 072417

Lab Sample ID: 180-68509-13

Date Collected: 07/24/17 13:10

Matrix: Solid

Date Received: 07/25/17 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218069	07/25/17 15:39	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W9, S1, A 072417

Lab Sample ID: 180-68509-13

Date Collected: 07/24/17 13:10

Matrix: Solid

Date Received: 07/25/17 09:15

Percent Solids: 94.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.0889 g	5 mL	218236	07/27/17 05:30	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	218225	07/27/17 14:20	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W9, S1, B 072417

Lab Sample ID: 180-68509-14
Date Collected: 07/24/17 13:15
Matrix: Solid
Date Received: 07/25/17 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218069	07/25/17 15:39	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W9, S1, B 072417

Lab Sample ID: 180-68509-14
Date Collected: 07/24/17 13:15
Matrix: Solid
Date Received: 07/25/17 09:15
Percent Solids: 94.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.8203 g	5 mL	218236	07/27/17 05:30	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	218225	07/27/17 14:42	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W9, S1, C 072417

Lab Sample ID: 180-68509-15
Date Collected: 07/24/17 13:20
Matrix: Solid
Date Received: 07/25/17 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218069	07/25/17 15:39	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W9, S1, C 072417

Lab Sample ID: 180-68509-15
Date Collected: 07/24/17 13:20
Matrix: Solid
Date Received: 07/25/17 09:15
Percent Solids: 92.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	0.5 mL	218278	07/27/17 11:21	MAL	TAL PIT
Total/NA	Analysis	8270D LL		3	1 mL	1 mL	218265	07/27/17 22:13	VVP	TAL PIT
	Instrument ID: CH732									
Total/NA	Prep	3541			15.1 g	20.0 mL	218112	07/26/17 08:33	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	218177	07/26/17 13:57	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	218178	07/26/17 13:58	JMO	TAL PIT
Total/NA	Analysis	8082A		1			218100	07/27/17 02:11	JMO	TAL PIT
	Instrument ID: CHGC16									
Total/NA	Prep	3050B			0.96 g	100 mL	218293	07/27/17 12:44	CRM	TAL PIT
Total/NA	Analysis	6010C		1			218421	07/28/17 09:05	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.63 g	100 mL	218097	07/26/17 05:04	RJR	TAL PIT
Total/NA	Analysis	7471B		1			218142	07/26/17 09:26	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.02 g	50 mL	218282	07/27/17 11:19	JAS	TAL PIT
Total/NA	Analysis	9014		1			218335	07/27/17 14:56	JAS	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: TRIP BLANK
Date Collected: 07/24/17 00:00
Date Received: 07/25/17 09:15

Lab Sample ID: 180-68509-22
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	218093	07/26/17 10:33	FBB	TAL PIT
	Instrument ID: CHHP6									

Client Sample ID: DUP 15
Date Collected: 07/24/17 00:00
Date Received: 07/25/17 09:15

Lab Sample ID: 180-68509-23
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218069	07/25/17 15:39	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: DUP 15
Date Collected: 07/24/17 00:00
Date Received: 07/25/17 09:15

Lab Sample ID: 180-68509-23
Matrix: Solid
Percent Solids: 94.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.7378 g	5 mL	218236	07/27/17 05:30	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	218225	07/27/17 15:05	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: DUP 14
Date Collected: 07/24/17 00:00
Date Received: 07/25/17 09:15

Lab Sample ID: 180-68509-24
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218069	07/25/17 15:39	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: DUP 14
Date Collected: 07/24/17 00:00
Date Received: 07/25/17 09:15

Lab Sample ID: 180-68509-24
Matrix: Solid
Percent Solids: 68.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	0.5 mL	218278	07/27/17 11:21	MAL	TAL PIT
Total/NA	Analysis	8270D LL		2	1 mL	1 mL	218265	07/27/17 22:40	VVP	TAL PIT
	Instrument ID: CH732									
Total/NA	Prep	3541			15.2 g	20.0 mL	218112	07/26/17 08:33	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	218177	07/26/17 13:57	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	218178	07/26/17 13:58	JMO	TAL PIT
Total/NA	Analysis	8082A		1			218100	07/27/17 03:36	JMO	TAL PIT
	Instrument ID: CHGC16									
Total/NA	Prep	3050B			0.94 g	100 mL	218293	07/27/17 12:44	CRM	TAL PIT

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68509-1

Client Sample ID: DUP 14
Date Collected: 07/24/17 00:00
Date Received: 07/25/17 09:15

Lab Sample ID: 180-68509-24
Matrix: Solid
Percent Solids: 68.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	6010C		1			218421	07/28/17 09:11	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.63 g	100 mL	218097	07/26/17 05:04	RJR	TAL PIT
Total/NA	Analysis	7471B		1			218142	07/26/17 09:30	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.01 g	50 mL	218282	07/27/17 11:19	JAS	TAL PIT
Total/NA	Analysis	9014		1			218335	07/27/17 14:57	JAS	TAL PIT
	Instrument ID: SEAL2									

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Analyst References:

Lab: TAL PIT

Batch Type: Cleanup

JMO = John Oravec

Batch Type: Prep

BAP = Brian Pino

CRM = Caitlin McEvoy

JAS = Joshua Schmidt

KLG = Kathy Gordon

MAL = Michael Lonzo

RJR = Ron Rosenbaum

Batch Type: Analysis

FBB = Frank Bungard

JAS = Joshua Schmidt

JMO = John Oravec

JTL = Justin Landry

KLG = Kathy Gordon

RJG = Rob Good

RJR = Ron Rosenbaum

VVP = Vincent Piccolino

Client Sample ID: WB 7-8, S1, A 072417

Lab Sample ID: 180-68509-1
Date Collected: 07/24/17 10:05
Matrix: Solid
Date Received: 07/25/17 09:15
Percent Solids: 78.4

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.022	0.0035	mg/Kg	☼	07/26/17 05:40	07/26/17 16:12	1
Benzene	ND		0.0055	0.0022	mg/Kg	☼	07/26/17 05:40	07/26/17 16:12	1
2-Butanone (MEK)	ND		0.0055	0.0032	mg/Kg	☼	07/26/17 05:40	07/26/17 16:12	1
Carbon tetrachloride	ND		0.0055	0.0037	mg/Kg	☼	07/26/17 05:40	07/26/17 16:12	1
Chlorobenzene	ND		0.0055	0.0017	mg/Kg	☼	07/26/17 05:40	07/26/17 16:12	1
Chloroform	ND		0.0055	0.0023	mg/Kg	☼	07/26/17 05:40	07/26/17 16:12	1
cis-1,2-Dichloroethene	ND		0.0055	0.0017	mg/Kg	☼	07/26/17 05:40	07/26/17 16:12	1
1,2-Dichlorobenzene	ND		0.0055	0.0044	mg/Kg	☼	07/26/17 05:40	07/26/17 16:12	1
1,3-Dichlorobenzene	ND		0.0055	0.0018	mg/Kg	☼	07/26/17 05:40	07/26/17 16:12	1
1,4-Dichlorobenzene	ND		0.0055	0.0011	mg/Kg	☼	07/26/17 05:40	07/26/17 16:12	1
1,1-Dichloroethane	ND		0.0055	0.0020	mg/Kg	☼	07/26/17 05:40	07/26/17 16:12	1
1,2-Dichloroethane	ND		0.0055	0.0016	mg/Kg	☼	07/26/17 05:40	07/26/17 16:12	1
1,1-Dichloroethene	ND		0.0055	0.0032	mg/Kg	☼	07/26/17 05:40	07/26/17 16:12	1
Ethylbenzene	ND		0.0055	0.0024	mg/Kg	☼	07/26/17 05:40	07/26/17 16:12	1
Methylene Chloride	ND		0.0055	0.0026	mg/Kg	☼	07/26/17 05:40	07/26/17 16:12	1
Methyl tert-butyl ether	ND		0.0055	0.0041	mg/Kg	☼	07/26/17 05:40	07/26/17 16:12	1
n-Butylbenzene	ND		0.0055	0.0042	mg/Kg	☼	07/26/17 05:40	07/26/17 16:12	1
N-Propylbenzene	ND		0.0055	0.0023	mg/Kg	☼	07/26/17 05:40	07/26/17 16:12	1
sec-Butylbenzene	ND		0.0055	0.0027	mg/Kg	☼	07/26/17 05:40	07/26/17 16:12	1
tert-Butylbenzene	ND		0.0055	0.0020	mg/Kg	☼	07/26/17 05:40	07/26/17 16:12	1
Tetrachloroethene	ND		0.0055	0.0022	mg/Kg	☼	07/26/17 05:40	07/26/17 16:12	1
Toluene	ND		0.0055	0.0019	mg/Kg	☼	07/26/17 05:40	07/26/17 16:12	1
trans-1,2-Dichloroethene	ND		0.0055	0.0028	mg/Kg	☼	07/26/17 05:40	07/26/17 16:12	1
1,1,1-Trichloroethane	ND		0.0055	0.0028	mg/Kg	☼	07/26/17 05:40	07/26/17 16:12	1
Trichloroethene	ND		0.0055	0.0017	mg/Kg	☼	07/26/17 05:40	07/26/17 16:12	1
1,2,4-Trimethylbenzene	ND		0.0055	0.0015	mg/Kg	☼	07/26/17 05:40	07/26/17 16:12	1
1,3,5-Trimethylbenzene	ND		0.0055	0.0019	mg/Kg	☼	07/26/17 05:40	07/26/17 16:12	1
Vinyl chloride	ND		0.0055	0.0041	mg/Kg	☼	07/26/17 05:40	07/26/17 16:12	1
Xylenes, Total	ND		0.011	0.0048	mg/Kg	☼	07/26/17 05:40	07/26/17 16:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*63 - 120*	*07/26/17 05:40*	*07/26/17 16:12*	*1*
Dibromofluoromethane (Surr)	*101*		*68 - 121*	*07/26/17 05:40*	*07/26/17 16:12*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*52 - 124*	*07/26/17 05:40*	*07/26/17 16:12*	*1*
Toluene-d8 (Surr)	*108*		*72 - 127*	*07/26/17 05:40*	*07/26/17 16:12*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**21.6**		0.1	0.1	%			07/25/17 15:39	1
Percent Solids	**78.4**		0.1	0.1	%			07/25/17 15:39	1

Client Sample ID: WB 7-8, S1, B 072417

Lab Sample ID: 180-68509-2
Date Collected: 07/24/17 10:10
Matrix: Solid
Date Received: 07/25/17 09:15
Percent Solids: 70.7

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.022	0.0034	mg/Kg	☼	07/26/17 05:40	07/26/17 16:35	1
Benzene	ND		0.0055	0.0021	mg/Kg	☼	07/26/17 05:40	07/26/17 16:35	1
2-Butanone (MEK)	ND		0.0055	0.0032	mg/Kg	☼	07/26/17 05:40	07/26/17 16:35	1

Client Sample ID: WB 7-8, S1, B 072417 — Lab Sample ID: 180-68509-2

Date Collected: 07/24/17 10:10 — Matrix: Solid
Date Received: 07/25/17 09:15 — Percent Solids: 70.7

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	ND		0.0055	0.0036	mg/Kg	☼	07/26/17 05:40	07/26/17 16:35	1
Chlorobenzene	ND		0.0055	0.0017	mg/Kg	☼	07/26/17 05:40	07/26/17 16:35	1
Chloroform	ND		0.0055	0.0023	mg/Kg	☼	07/26/17 05:40	07/26/17 16:35	1
cis-1,2-Dichloroethene	ND		0.0055	0.0017	mg/Kg	☼	07/26/17 05:40	07/26/17 16:35	1
1,2-Dichlorobenzene	ND		0.0055	0.0044	mg/Kg	☼	07/26/17 05:40	07/26/17 16:35	1
1,3-Dichlorobenzene	ND		0.0055	0.0017	mg/Kg	☼	07/26/17 05:40	07/26/17 16:35	1
1,4-Dichlorobenzene	ND		0.0055	0.0011	mg/Kg	☼	07/26/17 05:40	07/26/17 16:35	1
1,1-Dichloroethane	ND		0.0055	0.0020	mg/Kg	☼	07/26/17 05:40	07/26/17 16:35	1
1,2-Dichloroethane	ND		0.0055	0.0016	mg/Kg	☼	07/26/17 05:40	07/26/17 16:35	1
1,1-Dichloroethene	ND		0.0055	0.0031	mg/Kg	☼	07/26/17 05:40	07/26/17 16:35	1
Ethylbenzene	ND		0.0055	0.0024	mg/Kg	☼	07/26/17 05:40	07/26/17 16:35	1
Methylene Chloride	ND		0.0055	0.0026	mg/Kg	☼	07/26/17 05:40	07/26/17 16:35	1
Methyl tert-butyl ether	ND		0.0055	0.0040	mg/Kg	☼	07/26/17 05:40	07/26/17 16:35	1
n-Butylbenzene	ND		0.0055	0.0041	mg/Kg	☼	07/26/17 05:40	07/26/17 16:35	1
N-Propylbenzene	ND		0.0055	0.0023	mg/Kg	☼	07/26/17 05:40	07/26/17 16:35	1
sec-Butylbenzene	ND		0.0055	0.0027	mg/Kg	☼	07/26/17 05:40	07/26/17 16:35	1
tert-Butylbenzene	ND		0.0055	0.0020	mg/Kg	☼	07/26/17 05:40	07/26/17 16:35	1
Tetrachloroethene	ND		0.0055	0.0022	mg/Kg	☼	07/26/17 05:40	07/26/17 16:35	1
Toluene	ND		0.0055	0.0018	mg/Kg	☼	07/26/17 05:40	07/26/17 16:35	1
trans-1,2-Dichloroethene	ND		0.0055	0.0028	mg/Kg	☼	07/26/17 05:40	07/26/17 16:35	1
1,1,1-Trichloroethane	ND		0.0055	0.0027	mg/Kg	☼	07/26/17 05:40	07/26/17 16:35	1
Trichloroethene	ND		0.0055	0.0016	mg/Kg	☼	07/26/17 05:40	07/26/17 16:35	1
1,2,4-Trimethylbenzene	ND		0.0055	0.0015	mg/Kg	☼	07/26/17 05:40	07/26/17 16:35	1
1,3,5-Trimethylbenzene	ND		0.0055	0.0019	mg/Kg	☼	07/26/17 05:40	07/26/17 16:35	1
Vinyl chloride	ND		0.0055	0.0040	mg/Kg	☼	07/26/17 05:40	07/26/17 16:35	1
Xylenes, Total	ND		0.011	0.0047	mg/Kg	☼	07/26/17 05:40	07/26/17 16:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*63 - 120*	*07/26/17 05:40*	*07/26/17 16:35*	*1*
Dibromofluoromethane (Surr)	*101*		*68 - 121*	*07/26/17 05:40*	*07/26/17 16:35*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*52 - 124*	*07/26/17 05:40*	*07/26/17 16:35*	*1*
Toluene-d8 (Surr)	*109*		*72 - 127*	*07/26/17 05:40*	*07/26/17 16:35*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**29.3**		0.1	0.1	%			07/25/17 15:39	1
Percent Solids	**70.7**		0.1	0.1	%			07/25/17 15:39	1

Client Sample ID: WB 7-8, S1, C 072417 — Lab Sample ID: 180-68509-3

Date Collected: 07/24/17 10:20 — Matrix: Solid
Date Received: 07/25/17 09:15 — Percent Solids: 73.3

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.012**		0.0091	0.0031	mg/Kg	☼	07/27/17 11:21	07/27/17 20:25	1
Acenaphthylene	**0.029**		0.0091	0.0031	mg/Kg	☼	07/27/17 11:21	07/27/17 20:25	1
Anthracene	**0.045**		0.0091	0.0034	mg/Kg	☼	07/27/17 11:21	07/27/17 20:25	1
Benzo[a]anthracene	**0.14**		0.0091	0.0036	mg/Kg	☼	07/27/17 11:21	07/27/17 20:25	1
Benzo[a]pyrene	**0.15**		0.0091	0.0038	mg/Kg	☼	07/27/17 11:21	07/27/17 20:25	1
Benzo[b]fluoranthene	**0.19**		0.0091	0.0039	mg/Kg	☼	07/27/17 11:21	07/27/17 20:25	1

Client Sample ID: WB 7-8, S1, C 072417 **Lab Sample ID: 180-68509-3**
Date Collected: 07/24/17 10:20 **Matrix: Solid**
Date Received: 07/25/17 09:15 **Percent Solids: 73.3**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	**0.16**		0.0091	0.0039	mg/Kg	☼	07/27/17 11:21	07/27/17 20:25	1
Benzo[k]fluoranthene	**0.080**		0.0091	0.0031	mg/Kg	☼	07/27/17 11:21	07/27/17 20:25	1
Chrysene	**0.16**		0.0091	0.0036	mg/Kg	☼	07/27/17 11:21	07/27/17 20:25	1
Dibenz(a,h)anthracene	**0.035**		0.0091	0.0038	mg/Kg	☼	07/27/17 11:21	07/27/17 20:25	1
Dibenzofuran	**0.0091**	**J**	0.045	0.0036	mg/Kg	☼	07/27/17 11:21	07/27/17 20:25	1
1,4-Dioxane	ND		0.091	0.0069	mg/Kg	☼	07/27/17 11:21	07/27/17 20:25	1
Fluoranthene	**0.29**		0.0091	0.0036	mg/Kg	☼	07/27/17 11:21	07/27/17 20:25	1
Fluorene	**0.014**		0.0091	0.0032	mg/Kg	☼	07/27/17 11:21	07/27/17 20:25	1
Hexachlorobenzene	ND		0.0091	0.0037	mg/Kg	☼	07/27/17 11:21	07/27/17 20:25	1
Indeno[1,2,3-cd]pyrene	**0.14**		0.0091	0.0035	mg/Kg	☼	07/27/17 11:21	07/27/17 20:25	1
2-Methylphenol	ND		0.045	0.0040	mg/Kg	☼	07/27/17 11:21	07/27/17 20:25	1
Methylphenol, 3 & 4	**0.0082**	**J**	0.045	0.0040	mg/Kg	☼	07/27/17 11:21	07/27/17 20:25	1
Naphthalene	**0.011**		0.0091	0.0033	mg/Kg	☼	07/27/17 11:21	07/27/17 20:25	1
Pentachlorophenol	ND		0.23	0.086	mg/Kg	☼	07/27/17 11:21	07/27/17 20:25	1
Phenanthrene	**0.12**		0.0091	0.0038	mg/Kg	☼	07/27/17 11:21	07/27/17 20:25	1
Phenol	ND		0.045	0.0061	mg/Kg	☼	07/27/17 11:21	07/27/17 20:25	1
Pyrene	**0.21**		0.0091	0.0041	mg/Kg	☼	07/27/17 11:21	07/27/17 20:25	1
Hexachloroethane	ND		45	3.3	ug/Kg	☼	07/27/17 11:21	07/27/17 20:25	1
Nitrobenzene	ND		91	3.5	ug/Kg	☼	07/27/17 11:21	07/27/17 20:25	1
Hexachlorobutadiene	ND		9.1	2.9	ug/Kg	☼	07/27/17 11:21	07/27/17 20:25	1
2,4,5-Trichlorophenol	ND		45	4.3	ug/Kg	☼	07/27/17 11:21	07/27/17 20:25	1
2,4,6-Trichlorophenol	ND		45	4.0	ug/Kg	☼	07/27/17 11:21	07/27/17 20:25	1
2,4-Dinitrotoluene	ND		45	6.0	ug/Kg	☼	07/27/17 11:21	07/27/17 20:25	1
Pyridine	ND		45	4.4	ug/Kg	☼	07/27/17 11:21	07/27/17 20:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*55*		*42 - 100*	*07/27/17 11:21*	*07/27/17 20:25*	*1*
2-Fluorophenol (Surr)	*51*		*21 - 107*	*07/27/17 11:21*	*07/27/17 20:25*	*1*
Nitrobenzene-d5 (Surr)	*48*		*35 - 109*	*07/27/17 11:21*	*07/27/17 20:25*	*1*
Phenol-d5 (Surr)	*49*		*29 - 105*	*07/27/17 11:21*	*07/27/17 20:25*	*1*
Terphenyl-d14 (Surr)	*49*		*36 - 113*	*07/27/17 11:21*	*07/27/17 20:25*	*1*
2,4,6-Tribromophenol (Surr)	*70*		*20 - 134*	*07/27/17 11:21*	*07/27/17 20:25*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.023	0.012	mg/Kg	☼	07/26/17 08:33	07/27/17 00:48	1
PCB-1221	ND		0.023	0.012	mg/Kg	☼	07/26/17 08:33	07/27/17 00:48	1
PCB-1232	ND		0.023	0.0089	mg/Kg	☼	07/26/17 08:33	07/27/17 00:48	1
PCB-1242	ND		0.023	0.018	mg/Kg	☼	07/26/17 08:33	07/27/17 00:48	1
PCB-1248	**1.3**		0.023	0.011	mg/Kg	☼	07/26/17 08:33	07/27/17 00:48	1
PCB-1254	**0.50**		0.023	0.0099	mg/Kg	☼	07/26/17 08:33	07/27/17 00:48	1
PCB-1260	**0.054**		0.023	0.015	mg/Kg	☼	07/26/17 08:33	07/27/17 00:48	1
PCB-1262	ND		0.023	0.016	mg/Kg	☼	07/26/17 08:33	07/27/17 00:48	1
PCB-1268	ND		0.023	0.0069	mg/Kg	☼	07/26/17 08:33	07/27/17 00:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*65*		*23 - 150*	*07/26/17 08:33*	*07/27/17 00:48*	*1*
DCB Decachlorobiphenyl (Surr)	*65*		*23 - 150*	*07/26/17 08:33*	*07/27/17 00:48*	*1*
Tetrachloro-m-xylene (Surr)	*69*		*27 - 138*	*07/26/17 08:33*	*07/27/17 00:48*	*1*
Tetrachloro-m-xylene (Surr)	*69*		*27 - 138*	*07/26/17 08:33*	*07/27/17 00:48*	*1*

Client Sample ID: WB 7-8, S1, C 072417

Lab Sample ID: 180-68509-3
Date Collected: 07/24/17 10:20
Matrix: Solid
Date Received: 07/25/17 09:15
Percent Solids: 73.3

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.6		1.4	0.61	mg/Kg	☼	07/27/17 12:44	07/28/17 08:45	1
Barium	90		28	7.5	mg/Kg	☼	07/27/17 12:44	07/28/17 08:45	1
Beryllium	0.31	J	0.56	0.15	mg/Kg	☼	07/27/17 12:44	07/28/17 08:45	1
Cadmium	0.23	J	0.70	0.16	mg/Kg	☼	07/27/17 12:44	07/28/17 08:45	1
Chromium	9.2		0.70	0.18	mg/Kg	☼	07/27/17 12:44	07/28/17 08:45	1
Copper	29		3.5	1.1	mg/Kg	☼	07/27/17 12:44	07/28/17 08:45	1
Lead	39		1.4	0.46	mg/Kg	☼	07/27/17 12:44	07/28/17 08:45	1
Manganese	380		2.1	0.56	mg/Kg	☼	07/27/17 12:44	07/28/17 08:45	1
Nickel	19		5.6	1.3	mg/Kg	☼	07/27/17 12:44	07/28/17 08:45	1
Selenium	ND		1.4	0.55	mg/Kg	☼	07/27/17 12:44	07/28/17 08:45	1
Silver	ND		0.70	0.23	mg/Kg	☼	07/27/17 12:44	07/28/17 08:45	1
Zinc	63		2.8	1.4	mg/Kg	☼	07/27/17 12:44	07/28/17 08:45	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.044	J	0.045	0.010	mg/Kg	☼	07/26/17 05:04	07/26/17 09:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	26.7		0.1	0.1	%			07/25/17 15:39	1
Percent Solids	73.3		0.1	0.1	%			07/25/17 15:39	1
Cyanide, Total	0.34	J	0.68	0.21	mg/Kg	☼	07/27/17 11:19	07/27/17 14:49	1

Client Sample ID: WB 7-8, S2, A 072417

Lab Sample ID: 180-68509-4
Date Collected: 07/24/17 10:45
Matrix: Solid
Date Received: 07/25/17 09:15
Percent Solids: 79.2

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.026	0.0041	mg/Kg	☼	07/26/17 05:40	07/26/17 16:58	1
Benzene	ND		0.0065	0.0025	mg/Kg	☼	07/26/17 05:40	07/26/17 16:58	1
2-Butanone (MEK)	ND		0.0065	0.0037	mg/Kg	☼	07/26/17 05:40	07/26/17 16:58	1
Carbon tetrachloride	ND		0.0065	0.0043	mg/Kg	☼	07/26/17 05:40	07/26/17 16:58	1
Chlorobenzene	ND		0.0065	0.0020	mg/Kg	☼	07/26/17 05:40	07/26/17 16:58	1
Chloroform	ND		0.0065	0.0027	mg/Kg	☼	07/26/17 05:40	07/26/17 16:58	1
cis-1,2-Dichloroethene	ND		0.0065	0.0020	mg/Kg	☼	07/26/17 05:40	07/26/17 16:58	1
1,2-Dichlorobenzene	ND		0.0065	0.0052	mg/Kg	☼	07/26/17 05:40	07/26/17 16:58	1
1,3-Dichlorobenzene	ND		0.0065	0.0021	mg/Kg	☼	07/26/17 05:40	07/26/17 16:58	1
1,4-Dichlorobenzene	ND		0.0065	0.0013	mg/Kg	☼	07/26/17 05:40	07/26/17 16:58	1
1,1-Dichloroethane	ND		0.0065	0.0023	mg/Kg	☼	07/26/17 05:40	07/26/17 16:58	1
1,2-Dichloroethane	ND		0.0065	0.0019	mg/Kg	☼	07/26/17 05:40	07/26/17 16:58	1
1,1-Dichloroethene	ND		0.0065	0.0037	mg/Kg	☼	07/26/17 05:40	07/26/17 16:58	1
Ethylbenzene	0.0040	J	0.0065	0.0028	mg/Kg	☼	07/26/17 05:40	07/26/17 16:58	1
Methylene Chloride	ND		0.0065	0.0030	mg/Kg	☼	07/26/17 05:40	07/26/17 16:58	1
Methyl tert-butyl ether	ND		0.0065	0.0048	mg/Kg	☼	07/26/17 05:40	07/26/17 16:58	1
n-Butylbenzene	ND		0.0065	0.0049	mg/Kg	☼	07/26/17 05:40	07/26/17 16:58	1
N-Propylbenzene	ND		0.0065	0.0027	mg/Kg	☼	07/26/17 05:40	07/26/17 16:58	1
sec-Butylbenzene	ND		0.0065	0.0031	mg/Kg	☼	07/26/17 05:40	07/26/17 16:58	1
tert-Butylbenzene	ND		0.0065	0.0024	mg/Kg	☼	07/26/17 05:40	07/26/17 16:58	1
Tetrachloroethene	ND		0.0065	0.0026	mg/Kg	☼	07/26/17 05:40	07/26/17 16:58	1

Client Sample ID: WB 7-8, S2, A 072417

Lab Sample ID: 180-68509-4
Date Collected: 07/24/17 10:45
Matrix: Solid
Date Received: 07/25/17 09:15
Percent Solids: 79.2

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		0.0065	0.0022	mg/Kg	☼	07/26/17 05:40	07/26/17 16:58	1
trans-1,2-Dichloroethene	ND		0.0065	0.0033	mg/Kg	☼	07/26/17 05:40	07/26/17 16:58	1
1,1,1-Trichloroethane	ND		0.0065	0.0032	mg/Kg	☼	07/26/17 05:40	07/26/17 16:58	1
Trichloroethene	ND		0.0065	0.0019	mg/Kg	☼	07/26/17 05:40	07/26/17 16:58	1
1,2,4-Trimethylbenzene	ND		0.0065	0.0017	mg/Kg	☼	07/26/17 05:40	07/26/17 16:58	1
1,3,5-Trimethylbenzene	ND		0.0065	0.0022	mg/Kg	☼	07/26/17 05:40	07/26/17 16:58	1
Vinyl chloride	ND		0.0065	0.0047	mg/Kg	☼	07/26/17 05:40	07/26/17 16:58	1
Xylenes, Total	**0.026**		0.013	0.0056	mg/Kg	☼	07/26/17 05:40	07/26/17 16:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*63 - 120*	*07/26/17 05:40*	*07/26/17 16:58*	*1*
Dibromofluoromethane (Surr)	*103*		*68 - 121*	*07/26/17 05:40*	*07/26/17 16:58*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*52 - 124*	*07/26/17 05:40*	*07/26/17 16:58*	*1*
Toluene-d8 (Surr)	*113*		*72 - 127*	*07/26/17 05:40*	*07/26/17 16:58*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**20.8**		0.1	0.1	%			07/25/17 15:39	1
Percent Solids	**79.2**		0.1	0.1	%			07/25/17 15:39	1

Client Sample ID: WB 7-8, S2, B 072417

Lab Sample ID: 180-68509-5
Date Collected: 07/24/17 10:50
Matrix: Solid
Date Received: 07/25/17 09:15
Percent Solids: 74.2

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.024	0.0037	mg/Kg	☼	07/27/17 05:30	07/27/17 12:26	1
Benzene	ND		0.0059	0.0023	mg/Kg	☼	07/27/17 05:30	07/27/17 12:26	1
2-Butanone (MEK)	ND		0.0059	0.0034	mg/Kg	☼	07/27/17 05:30	07/27/17 12:26	1
Carbon tetrachloride	ND		0.0059	0.0039	mg/Kg	☼	07/27/17 05:30	07/27/17 12:26	1
Chlorobenzene	ND		0.0059	0.0019	mg/Kg	☼	07/27/17 05:30	07/27/17 12:26	1
Chloroform	ND		0.0059	0.0025	mg/Kg	☼	07/27/17 05:30	07/27/17 12:26	1
cis-1,2-Dichloroethene	ND		0.0059	0.0019	mg/Kg	☼	07/27/17 05:30	07/27/17 12:26	1
1,2-Dichlorobenzene	ND		0.0059	0.0048	mg/Kg	☼	07/27/17 05:30	07/27/17 12:26	1
1,3-Dichlorobenzene	ND		0.0059	0.0019	mg/Kg	☼	07/27/17 05:30	07/27/17 12:26	1
1,4-Dichlorobenzene	ND		0.0059	0.0012	mg/Kg	☼	07/27/17 05:30	07/27/17 12:26	1
1,1-Dichloroethane	ND		0.0059	0.0021	mg/Kg	☼	07/27/17 05:30	07/27/17 12:26	1
1,2-Dichloroethane	ND		0.0059	0.0017	mg/Kg	☼	07/27/17 05:30	07/27/17 12:26	1
1,1-Dichloroethene	ND		0.0059	0.0034	mg/Kg	☼	07/27/17 05:30	07/27/17 12:26	1
Ethylbenzene	ND		0.0059	0.0026	mg/Kg	☼	07/27/17 05:30	07/27/17 12:26	1
Methylene Chloride	ND		0.0059	0.0028	mg/Kg	☼	07/27/17 05:30	07/27/17 12:26	1
Methyl tert-butyl ether	ND		0.0059	0.0044	mg/Kg	☼	07/27/17 05:30	07/27/17 12:26	1
n-Butylbenzene	ND		0.0059	0.0045	mg/Kg	☼	07/27/17 05:30	07/27/17 12:26	1
N-Propylbenzene	ND		0.0059	0.0025	mg/Kg	☼	07/27/17 05:30	07/27/17 12:26	1
sec-Butylbenzene	ND		0.0059	0.0029	mg/Kg	☼	07/27/17 05:30	07/27/17 12:26	1
tert-Butylbenzene	ND		0.0059	0.0022	mg/Kg	☼	07/27/17 05:30	07/27/17 12:26	1
Tetrachloroethene	ND		0.0059	0.0024	mg/Kg	☼	07/27/17 05:30	07/27/17 12:26	1
Toluene	ND		0.0059	0.0020	mg/Kg	☼	07/27/17 05:30	07/27/17 12:26	1
trans-1,2-Dichloroethene	ND		0.0059	0.0030	mg/Kg	☼	07/27/17 05:30	07/27/17 12:26	1
1,1,1-Trichloroethane	ND		0.0059	0.0030	mg/Kg	☼	07/27/17 05:30	07/27/17 12:26	1

Client Sample ID: WB 7-8, S2, B 072417

Lab Sample ID: 180-68509-5
Date Collected: 07/24/17 10:50
Matrix: Solid
Date Received: 07/25/17 09:15
Percent Solids: 74.2

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	ND		0.0059	0.0018	mg/Kg	☼	07/27/17 05:30	07/27/17 12:26	1
1,2,4-Trimethylbenzene	ND		0.0059	0.0016	mg/Kg	☼	07/27/17 05:30	07/27/17 12:26	1
1,3,5-Trimethylbenzene	ND		0.0059	0.0020	mg/Kg	☼	07/27/17 05:30	07/27/17 12:26	1
Vinyl chloride	ND		0.0059	0.0043	mg/Kg	☼	07/27/17 05:30	07/27/17 12:26	1
Xylenes, Total	ND		0.012	0.0051	mg/Kg	☼	07/27/17 05:30	07/27/17 12:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*63 - 120*	*07/27/17 05:30*	*07/27/17 12:26*	*1*
Dibromofluoromethane (Surr)	*99*		*68 - 121*	*07/27/17 05:30*	*07/27/17 12:26*	*1*
1,2-Dichloroethane-d4 (Surr)	*91*		*52 - 124*	*07/27/17 05:30*	*07/27/17 12:26*	*1*
Toluene-d8 (Surr)	*112*		*72 - 127*	*07/27/17 05:30*	*07/27/17 12:26*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**25.8**		0.1	0.1	%			07/25/17 15:39	1
Percent Solids	**74.2**		0.1	0.1	%			07/25/17 15:39	1

Client Sample ID: WB 7-8, S2, C 072417

Lab Sample ID: 180-68509-6
Date Collected: 07/24/17 10:55
Matrix: Solid
Date Received: 07/25/17 09:15
Percent Solids: 72.6

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.037**		0.018	0.0062	mg/Kg	☼	07/27/17 11:21	07/27/17 20:52	2
Acenaphthylene	**0.062**		0.018	0.0062	mg/Kg	☼	07/27/17 11:21	07/27/17 20:52	2
Anthracene	**0.10**		0.018	0.0068	mg/Kg	☼	07/27/17 11:21	07/27/17 20:52	2
Benzo[a]anthracene	**0.23**		0.018	0.0073	mg/Kg	☼	07/27/17 11:21	07/27/17 20:52	2
Benzo[a]pyrene	**0.22**		0.018	0.0076	mg/Kg	☼	07/27/17 11:21	07/27/17 20:52	2
Benzo[b]fluoranthene	**0.29**		0.018	0.0080	mg/Kg	☼	07/27/17 11:21	07/27/17 20:52	2
Benzo[g,h,i]perylene	**0.22**		0.018	0.0080	mg/Kg	☼	07/27/17 11:21	07/27/17 20:52	2
Benzo[k]fluoranthene	**0.10**		0.018	0.0063	mg/Kg	☼	07/27/17 11:21	07/27/17 20:52	2
Chrysene	**0.25**		0.018	0.0072	mg/Kg	☼	07/27/17 11:21	07/27/17 20:52	2
Dibenz(a,h)anthracene	**0.053**		0.018	0.0076	mg/Kg	☼	07/27/17 11:21	07/27/17 20:52	2
Dibenzofuran	**0.028**	**J**	0.091	0.0073	mg/Kg	☼	07/27/17 11:21	07/27/17 20:52	2
1,4-Dioxane	ND		0.18	0.014	mg/Kg	☼	07/27/17 11:21	07/27/17 20:52	2
Fluoranthene	**0.46**		0.018	0.0072	mg/Kg	☼	07/27/17 11:21	07/27/17 20:52	2
Fluorene	**0.044**		0.018	0.0065	mg/Kg	☼	07/27/17 11:21	07/27/17 20:52	2
Hexachlorobenzene	ND		0.018	0.0074	mg/Kg	☼	07/27/17 11:21	07/27/17 20:52	2
Indeno[1,2,3-cd]pyrene	**0.18**		0.018	0.0071	mg/Kg	☼	07/27/17 11:21	07/27/17 20:52	2
2-Methylphenol	ND		0.091	0.0081	mg/Kg	☼	07/27/17 11:21	07/27/17 20:52	2
Methylphenol, 3 & 4	**0.021**	**J**	0.091	0.0081	mg/Kg	☼	07/27/17 11:21	07/27/17 20:52	2
Naphthalene	**0.030**		0.018	0.0066	mg/Kg	☼	07/27/17 11:21	07/27/17 20:52	2
Pentachlorophenol	ND		0.47	0.17	mg/Kg	☼	07/27/17 11:21	07/27/17 20:52	2
Phenanthrene	**0.28**		0.018	0.0077	mg/Kg	☼	07/27/17 11:21	07/27/17 20:52	2
Phenol	ND		0.091	0.012	mg/Kg	☼	07/27/17 11:21	07/27/17 20:52	2
Pyrene	**0.33**		0.018	0.0082	mg/Kg	☼	07/27/17 11:21	07/27/17 20:52	2
Hexachloroethane	ND		91	6.6	ug/Kg	☼	07/27/17 11:21	07/27/17 20:52	2
Nitrobenzene	ND		180	7.0	ug/Kg	☼	07/27/17 11:21	07/27/17 20:52	2
Hexachlorobutadiene	ND		18	5.8	ug/Kg	☼	07/27/17 11:21	07/27/17 20:52	2
2,4,5-Trichlorophenol	ND		91	8.7	ug/Kg	☼	07/27/17 11:21	07/27/17 20:52	2

Client Sample ID: WB 7-8, S2, C 072417
Date Collected: 07/24/17 10:55
Date Received: 07/25/17 09:15

Lab Sample ID: 180-68509-6
Matrix: Solid
Percent Solids: 72.6

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,6-Trichlorophenol	ND		91	8.0	ug/Kg	☼	07/27/17 11:21	07/27/17 20:52	2
2,4-Dinitrotoluene	ND		91	12	ug/Kg	☼	07/27/17 11:21	07/27/17 20:52	2
Pyridine	ND		91	8.8	ug/Kg	☼	07/27/17 11:21	07/27/17 20:52	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*67*		*42 - 100*	*07/27/17 11:21*	*07/27/17 20:52*	*2*
2-Fluorophenol (Surr)	*56*		*21 - 107*	*07/27/17 11:21*	*07/27/17 20:52*	*2*
Nitrobenzene-d5 (Surr)	*55*		*35 - 109*	*07/27/17 11:21*	*07/27/17 20:52*	*2*
Phenol-d5 (Surr)	*59*		*29 - 105*	*07/27/17 11:21*	*07/27/17 20:52*	*2*
Terphenyl-d14 (Surr)	*63*		*36 - 113*	*07/27/17 11:21*	*07/27/17 20:52*	*2*
2,4,6-Tribromophenol (Surr)	*87*		*20 - 134*	*07/27/17 11:21*	*07/27/17 20:52*	*2*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.022	0.012	mg/Kg	☼	07/26/17 08:33	07/27/17 01:09	1
PCB-1221	ND		0.022	0.012	mg/Kg	☼	07/26/17 08:33	07/27/17 01:09	1
PCB-1232	ND		0.022	0.0089	mg/Kg	☼	07/26/17 08:33	07/27/17 01:09	1
PCB-1242	ND		0.022	0.018	mg/Kg	☼	07/26/17 08:33	07/27/17 01:09	1
PCB-1248	**0.79**		0.022	0.011	mg/Kg	☼	07/26/17 08:33	07/27/17 01:09	1
PCB-1254	**0.30**		0.022	0.0099	mg/Kg	☼	07/26/17 08:33	07/27/17 01:09	1
PCB-1260	**0.043**		0.022	0.015	mg/Kg	☼	07/26/17 08:33	07/27/17 01:09	1
PCB-1262	ND		0.022	0.016	mg/Kg	☼	07/26/17 08:33	07/27/17 01:09	1
PCB-1268	ND		0.022	0.0069	mg/Kg	☼	07/26/17 08:33	07/27/17 01:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*64*		*23 - 150*	*07/26/17 08:33*	*07/27/17 01:09*	*1*
DCB Decachlorobiphenyl (Surr)	*65*		*23 - 150*	*07/26/17 08:33*	*07/27/17 01:09*	*1*
Tetrachloro-m-xylene (Surr)	*68*		*27 - 138*	*07/26/17 08:33*	*07/27/17 01:09*	*1*
Tetrachloro-m-xylene (Surr)	*70*		*27 - 138*	*07/26/17 08:33*	*07/27/17 01:09*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**7.2**		1.4	0.61	mg/Kg	☼	07/27/17 12:44	07/28/17 08:50	1
Barium	**97**		28	7.4	mg/Kg	☼	07/27/17 12:44	07/28/17 08:50	1
Beryllium	**0.41**	**J**	0.55	0.14	mg/Kg	☼	07/27/17 12:44	07/28/17 08:50	1
Cadmium	**0.23**	**J**	0.69	0.15	mg/Kg	☼	07/27/17 12:44	07/28/17 08:50	1
Chromium	**12**		0.69	0.18	mg/Kg	☼	07/27/17 12:44	07/28/17 08:50	1
Copper	**33**		3.4	1.1	mg/Kg	☼	07/27/17 12:44	07/28/17 08:50	1
Lead	**42**		1.4	0.45	mg/Kg	☼	07/27/17 12:44	07/28/17 08:50	1
Manganese	**490**		2.1	0.56	mg/Kg	☼	07/27/17 12:44	07/28/17 08:50	1
Nickel	**26**		5.5	1.2	mg/Kg	☼	07/27/17 12:44	07/28/17 08:50	1
Selenium	ND		1.4	0.55	mg/Kg	☼	07/27/17 12:44	07/28/17 08:50	1
Silver	ND		0.69	0.23	mg/Kg	☼	07/27/17 12:44	07/28/17 08:50	1
Zinc	**74**		2.8	1.4	mg/Kg	☼	07/27/17 12:44	07/28/17 08:50	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.066**		0.045	0.010	mg/Kg	☼	07/26/17 05:04	07/26/17 09:22	1

Client Sample ID: WB 7-8, S2, C 072417 — Lab Sample ID: 180-68509-6

Date Collected: 07/24/17 10:55 — **Matrix: Solid**
Date Received: 07/25/17 09:15 — **Percent Solids: 72.6**

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	27.4		0.1	0.1	%			07/25/17 15:39	1
Percent Solids	72.6		0.1	0.1	%			07/25/17 15:39	1
Cyanide, Total	0.30	J	0.68	0.21	mg/Kg	☼	07/27/17 11:19	07/27/17 14:50	1

Client Sample ID: WB 7-8, S3, A 072417 — Lab Sample ID: 180-68509-7

Date Collected: 07/24/17 11:10 — **Matrix: Solid**
Date Received: 07/25/17 09:15 — **Percent Solids: 78.5**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.021	0.0033	mg/Kg	☼	07/27/17 05:30	07/27/17 12:49	1
Benzene	ND		0.0053	0.0021	mg/Kg	☼	07/27/17 05:30	07/27/17 12:49	1
2-Butanone (MEK)	ND		0.0053	0.0031	mg/Kg	☼	07/27/17 05:30	07/27/17 12:49	1
Carbon tetrachloride	ND		0.0053	0.0035	mg/Kg	☼	07/27/17 05:30	07/27/17 12:49	1
Chlorobenzene	ND		0.0053	0.0017	mg/Kg	☼	07/27/17 05:30	07/27/17 12:49	1
Chloroform	ND		0.0053	0.0022	mg/Kg	☼	07/27/17 05:30	07/27/17 12:49	1
cis-1,2-Dichloroethene	ND		0.0053	0.0017	mg/Kg	☼	07/27/17 05:30	07/27/17 12:49	1
1,2-Dichlorobenzene	ND		0.0053	0.0043	mg/Kg	☼	07/27/17 05:30	07/27/17 12:49	1
1,3-Dichlorobenzene	ND		0.0053	0.0017	mg/Kg	☼	07/27/17 05:30	07/27/17 12:49	1
1,4-Dichlorobenzene	ND		0.0053	0.0011	mg/Kg	☼	07/27/17 05:30	07/27/17 12:49	1
1,1-Dichloroethane	ND		0.0053	0.0019	mg/Kg	☼	07/27/17 05:30	07/27/17 12:49	1
1,2-Dichloroethane	ND		0.0053	0.0015	mg/Kg	☼	07/27/17 05:30	07/27/17 12:49	1
1,1-Dichloroethene	ND		0.0053	0.0030	mg/Kg	☼	07/27/17 05:30	07/27/17 12:49	1
Ethylbenzene	ND		0.0053	0.0023	mg/Kg	☼	07/27/17 05:30	07/27/17 12:49	1
Methylene Chloride	ND		0.0053	0.0025	mg/Kg	☼	07/27/17 05:30	07/27/17 12:49	1
Methyl tert-butyl ether	ND		0.0053	0.0039	mg/Kg	☼	07/27/17 05:30	07/27/17 12:49	1
n-Butylbenzene	ND		0.0053	0.0040	mg/Kg	☼	07/27/17 05:30	07/27/17 12:49	1
N-Propylbenzene	ND		0.0053	0.0022	mg/Kg	☼	07/27/17 05:30	07/27/17 12:49	1
sec-Butylbenzene	ND		0.0053	0.0026	mg/Kg	☼	07/27/17 05:30	07/27/17 12:49	1
tert-Butylbenzene	ND		0.0053	0.0019	mg/Kg	☼	07/27/17 05:30	07/27/17 12:49	1
Tetrachloroethene	ND		0.0053	0.0021	mg/Kg	☼	07/27/17 05:30	07/27/17 12:49	1
Toluene	ND		0.0053	0.0018	mg/Kg	☼	07/27/17 05:30	07/27/17 12:49	1
trans-1,2-Dichloroethene	ND		0.0053	0.0027	mg/Kg	☼	07/27/17 05:30	07/27/17 12:49	1
1,1,1-Trichloroethane	ND		0.0053	0.0027	mg/Kg	☼	07/27/17 05:30	07/27/17 12:49	1
Trichloroethene	ND		0.0053	0.0016	mg/Kg	☼	07/27/17 05:30	07/27/17 12:49	1
1,2,4-Trimethylbenzene	ND		0.0053	0.0014	mg/Kg	☼	07/27/17 05:30	07/27/17 12:49	1
1,3,5-Trimethylbenzene	ND		0.0053	0.0018	mg/Kg	☼	07/27/17 05:30	07/27/17 12:49	1
Vinyl chloride	ND		0.0053	0.0039	mg/Kg	☼	07/27/17 05:30	07/27/17 12:49	1
Xylenes, Total	ND		0.011	0.0046	mg/Kg	☼	07/27/17 05:30	07/27/17 12:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*63 - 120*	*07/27/17 05:30*	*07/27/17 12:49*	*1*
Dibromofluoromethane (Surr)	*99*		*68 - 121*	*07/27/17 05:30*	*07/27/17 12:49*	*1*
1,2-Dichloroethane-d4 (Surr)	*91*		*52 - 124*	*07/27/17 05:30*	*07/27/17 12:49*	*1*
Toluene-d8 (Surr)	*110*		*72 - 127*	*07/27/17 05:30*	*07/27/17 12:49*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	21.5		0.1	0.1	%			07/25/17 15:39	1
Percent Solids	78.5		0.1	0.1	%			07/25/17 15:39	1

Client Sample ID: WB 7-8, S3, B 072417 — Lab Sample ID: 180-68509-8

Date Collected: 07/24/17 11:20 — **Matrix: Solid**
Date Received: 07/25/17 09:15 — **Percent Solids: 83.6**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.018	0.0028	mg/Kg	☼	07/27/17 05:30	07/27/17 13:11	1
Benzene	ND		0.0045	0.0018	mg/Kg	☼	07/27/17 05:30	07/27/17 13:11	1
2-Butanone (MEK)	ND		0.0045	0.0026	mg/Kg	☼	07/27/17 05:30	07/27/17 13:11	1
Carbon tetrachloride	ND		0.0045	0.0030	mg/Kg	☼	07/27/17 05:30	07/27/17 13:11	1
Chlorobenzene	ND		0.0045	0.0014	mg/Kg	☼	07/27/17 05:30	07/27/17 13:11	1
Chloroform	ND		0.0045	0.0019	mg/Kg	☼	07/27/17 05:30	07/27/17 13:11	1
cis-1,2-Dichloroethene	ND		0.0045	0.0014	mg/Kg	☼	07/27/17 05:30	07/27/17 13:11	1
1,2-Dichlorobenzene	ND		0.0045	0.0036	mg/Kg	☼	07/27/17 05:30	07/27/17 13:11	1
1,3-Dichlorobenzene	ND		0.0045	0.0014	mg/Kg	☼	07/27/17 05:30	07/27/17 13:11	1
1,4-Dichlorobenzene	ND		0.0045	0.00091	mg/Kg	☼	07/27/17 05:30	07/27/17 13:11	1
1,1-Dichloroethane	ND		0.0045	0.0016	mg/Kg	☼	07/27/17 05:30	07/27/17 13:11	1
1,2-Dichloroethane	ND		0.0045	0.0013	mg/Kg	☼	07/27/17 05:30	07/27/17 13:11	1
1,1-Dichloroethene	ND		0.0045	0.0025	mg/Kg	☼	07/27/17 05:30	07/27/17 13:11	1
Ethylbenzene	ND		0.0045	0.0019	mg/Kg	☼	07/27/17 05:30	07/27/17 13:11	1
Methylene Chloride	ND		0.0045	0.0021	mg/Kg	☼	07/27/17 05:30	07/27/17 13:11	1
Methyl tert-butyl ether	ND		0.0045	0.0033	mg/Kg	☼	07/27/17 05:30	07/27/17 13:11	1
n-Butylbenzene	ND		0.0045	0.0034	mg/Kg	☼	07/27/17 05:30	07/27/17 13:11	1
N-Propylbenzene	ND		0.0045	0.0019	mg/Kg	☼	07/27/17 05:30	07/27/17 13:11	1
sec-Butylbenzene	ND		0.0045	0.0022	mg/Kg	☼	07/27/17 05:30	07/27/17 13:11	1
tert-Butylbenzene	ND		0.0045	0.0016	mg/Kg	☼	07/27/17 05:30	07/27/17 13:11	1
Tetrachloroethene	ND		0.0045	0.0018	mg/Kg	☼	07/27/17 05:30	07/27/17 13:11	1
Toluene	ND		0.0045	0.0015	mg/Kg	☼	07/27/17 05:30	07/27/17 13:11	1
trans-1,2-Dichloroethene	ND		0.0045	0.0023	mg/Kg	☼	07/27/17 05:30	07/27/17 13:11	1
1,1,1-Trichloroethane	ND		0.0045	0.0022	mg/Kg	☼	07/27/17 05:30	07/27/17 13:11	1
Trichloroethene	ND		0.0045	0.0013	mg/Kg	☼	07/27/17 05:30	07/27/17 13:11	1
1,2,4-Trimethylbenzene	ND		0.0045	0.0012	mg/Kg	☼	07/27/17 05:30	07/27/17 13:11	1
1,3,5-Trimethylbenzene	ND		0.0045	0.0015	mg/Kg	☼	07/27/17 05:30	07/27/17 13:11	1
Vinyl chloride	ND		0.0045	0.0033	mg/Kg	☼	07/27/17 05:30	07/27/17 13:11	1
Xylenes, Total	ND		0.0089	0.0038	mg/Kg	☼	07/27/17 05:30	07/27/17 13:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*63 - 120*	*07/27/17 05:30*	*07/27/17 13:11*	*1*
Dibromofluoromethane (Surr)	*104*		*68 - 121*	*07/27/17 05:30*	*07/27/17 13:11*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*52 - 124*	*07/27/17 05:30*	*07/27/17 13:11*	*1*
Toluene-d8 (Surr)	*116*		*72 - 127*	*07/27/17 05:30*	*07/27/17 13:11*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**16.4**		0.1	0.1	%			07/25/17 15:39	1
Percent Solids	**83.6**		0.1	0.1	%			07/25/17 15:39	1

Client Sample ID: WB 7-8, S3, C 072417 — Lab Sample ID: 180-68509-9

Date Collected: 07/24/17 11:30 — **Matrix: Solid**
Date Received: 07/25/17 09:15 — **Percent Solids: 77.7**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.013**		0.0086	0.0029	mg/Kg	☼	07/27/17 11:21	07/27/17 21:19	1
Acenaphthylene	**0.12**		0.0086	0.0029	mg/Kg	☼	07/27/17 11:21	07/27/17 21:19	1
Anthracene	**0.097**		0.0086	0.0032	mg/Kg	☼	07/27/17 11:21	07/27/17 21:19	1

Client Sample ID: WB 7-8, S3, C 072417 **Lab Sample ID: 180-68509-9**
Date Collected: 07/24/17 11:30 **Matrix: Solid**
Date Received: 07/25/17 09:15 **Percent Solids: 77.7**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	**0.18**		0.0086	0.0034	mg/Kg	☼	07/27/17 11:21	07/27/17 21:19	1
Benzo[a]pyrene	**0.19**		0.0086	0.0036	mg/Kg	☼	07/27/17 11:21	07/27/17 21:19	1
Benzo[b]fluoranthene	**0.27**		0.0086	0.0037	mg/Kg	☼	07/27/17 11:21	07/27/17 21:19	1
Benzo[g,h,i]perylene	**0.25**		0.0086	0.0037	mg/Kg	☼	07/27/17 11:21	07/27/17 21:19	1
Benzo[k]fluoranthene	**0.085**		0.0086	0.0030	mg/Kg	☼	07/27/17 11:21	07/27/17 21:19	1
Chrysene	**0.26**		0.0086	0.0033	mg/Kg	☼	07/27/17 11:21	07/27/17 21:19	1
Dibenz(a,h)anthracene	**0.062**		0.0086	0.0036	mg/Kg	☼	07/27/17 11:21	07/27/17 21:19	1
Dibenzofuran	**0.011**	**J**	0.042	0.0034	mg/Kg	☼	07/27/17 11:21	07/27/17 21:19	1
1,4-Dioxane	ND		0.086	0.0065	mg/Kg	☼	07/27/17 11:21	07/27/17 21:19	1
Fluoranthene	**0.31**		0.0086	0.0034	mg/Kg	☼	07/27/17 11:21	07/27/17 21:19	1
Fluorene	**0.019**		0.0086	0.0031	mg/Kg	☼	07/27/17 11:21	07/27/17 21:19	1
Hexachlorobenzene	ND		0.0086	0.0035	mg/Kg	☼	07/27/17 11:21	07/27/17 21:19	1
Indeno[1,2,3-cd]pyrene	**0.20**		0.0086	0.0033	mg/Kg	☼	07/27/17 11:21	07/27/17 21:19	1
2-Methylphenol	ND		0.042	0.0038	mg/Kg	☼	07/27/17 11:21	07/27/17 21:19	1
Methylphenol, 3 & 4	**0.019**	**J**	0.042	0.0038	mg/Kg	☼	07/27/17 11:21	07/27/17 21:19	1
Naphthalene	**0.030**		0.0086	0.0031	mg/Kg	☼	07/27/17 11:21	07/27/17 21:19	1
Pentachlorophenol	ND		0.22	0.081	mg/Kg	☼	07/27/17 11:21	07/27/17 21:19	1
Phenanthrene	**0.14**		0.0086	0.0036	mg/Kg	☼	07/27/17 11:21	07/27/17 21:19	1
Phenol	ND		0.042	0.0058	mg/Kg	☼	07/27/17 11:21	07/27/17 21:19	1
Pyrene	**0.26**		0.0086	0.0038	mg/Kg	☼	07/27/17 11:21	07/27/17 21:19	1
Hexachloroethane	ND		42	3.1	ug/Kg	☼	07/27/17 11:21	07/27/17 21:19	1
Nitrobenzene	ND		86	3.3	ug/Kg	☼	07/27/17 11:21	07/27/17 21:19	1
Hexachlorobutadiene	ND		8.6	2.7	ug/Kg	☼	07/27/17 11:21	07/27/17 21:19	1
2,4,5-Trichlorophenol	ND		42	4.1	ug/Kg	☼	07/27/17 11:21	07/27/17 21:19	1
2,4,6-Trichlorophenol	ND		42	3.8	ug/Kg	☼	07/27/17 11:21	07/27/17 21:19	1
2,4-Dinitrotoluene	ND		42	5.7	ug/Kg	☼	07/27/17 11:21	07/27/17 21:19	1
Pyridine	ND		42	4.1	ug/Kg	☼	07/27/17 11:21	07/27/17 21:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*58*		*42 - 100*	*07/27/17 11:21*	*07/27/17 21:19*	*1*
2-Fluorophenol (Surr)	*59*		*21 - 107*	*07/27/17 11:21*	*07/27/17 21:19*	*1*
Nitrobenzene-d5 (Surr)	*52*		*35 - 109*	*07/27/17 11:21*	*07/27/17 21:19*	*1*
Phenol-d5 (Surr)	*56*		*29 - 105*	*07/27/17 11:21*	*07/27/17 21:19*	*1*
Terphenyl-d14 (Surr)	*53*		*36 - 113*	*07/27/17 11:21*	*07/27/17 21:19*	*1*
2,4,6-Tribromophenol (Surr)	*74*		*20 - 134*	*07/27/17 11:21*	*07/27/17 21:19*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.021	0.011	mg/Kg	☼	07/26/17 08:33	07/27/17 01:30	1
PCB-1221	ND		0.021	0.011	mg/Kg	☼	07/26/17 08:33	07/27/17 01:30	1
PCB-1232	ND		0.021	0.0085	mg/Kg	☼	07/26/17 08:33	07/27/17 01:30	1
PCB-1242	ND		0.021	0.017	mg/Kg	☼	07/26/17 08:33	07/27/17 01:30	1
PCB-1248	**1.3**		0.021	0.010	mg/Kg	☼	07/26/17 08:33	07/27/17 01:30	1
PCB-1254	**0.46**		0.021	0.0094	mg/Kg	☼	07/26/17 08:33	07/27/17 01:30	1
PCB-1260	**0.050**		0.021	0.014	mg/Kg	☼	07/26/17 08:33	07/27/17 01:30	1
PCB-1262	ND		0.021	0.015	mg/Kg	☼	07/26/17 08:33	07/27/17 01:30	1
PCB-1268	ND		0.021	0.0065	mg/Kg	☼	07/26/17 08:33	07/27/17 01:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*61*		*23 - 150*	*07/26/17 08:33*	*07/27/17 01:30*	*1*

Client Sample ID: WB 7-8, S3, C 072417 — Lab Sample ID: 180-68509-9

Date Collected: 07/24/17 11:30 — **Matrix: Solid**
Date Received: 07/25/17 09:15 — **Percent Solids: 77.7**

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*65*		*23 - 150*	*07/26/17 08:33*	*07/27/17 01:30*	*1*
Tetrachloro-m-xylene (Surr)	*68*		*27 - 138*	*07/26/17 08:33*	*07/27/17 01:30*	*1*
Tetrachloro-m-xylene (Surr)	*65*		*27 - 138*	*07/26/17 08:33*	*07/27/17 01:30*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**7.4**		1.4	0.62	mg/Kg	☼	07/27/17 12:44	07/28/17 08:55	1
Barium	**120**		28	7.6	mg/Kg	☼	07/27/17 12:44	07/28/17 08:55	1
Beryllium	**0.45**	**J**	0.57	0.15	mg/Kg	☼	07/27/17 12:44	07/28/17 08:55	1
Cadmium	**0.26**	**J**	0.71	0.16	mg/Kg	☼	07/27/17 12:44	07/28/17 08:55	1
Chromium	**14**		0.71	0.18	mg/Kg	☼	07/27/17 12:44	07/28/17 08:55	1
Copper	**33**		3.5	1.1	mg/Kg	☼	07/27/17 12:44	07/28/17 08:55	1
Lead	**46**		1.4	0.46	mg/Kg	☼	07/27/17 12:44	07/28/17 08:55	1
Manganese	**510**		2.1	0.57	mg/Kg	☼	07/27/17 12:44	07/28/17 08:55	1
Nickel	**39**		5.7	1.3	mg/Kg	☼	07/27/17 12:44	07/28/17 08:55	1
Selenium	ND		1.4	0.56	mg/Kg	☼	07/27/17 12:44	07/28/17 08:55	1
Silver	ND		0.71	0.23	mg/Kg	☼	07/27/17 12:44	07/28/17 08:55	1
Zinc	**110**		2.8	1.4	mg/Kg	☼	07/27/17 12:44	07/28/17 08:55	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.060**		0.039	0.0086	mg/Kg	☼	07/26/17 05:04	07/26/17 09:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**22.3**		0.1	0.1	%			07/25/17 15:39	1
Percent Solids	**77.7**		0.1	0.1	%			07/25/17 15:39	1
Cyanide, Total	**0.40**	**J**	0.64	0.20	mg/Kg	☼	07/27/17 11:19	07/27/17 14:52	1

Client Sample ID: WB 7-8, S4, A 072417 — Lab Sample ID: 180-68509-10

Date Collected: 07/24/17 12:05 — **Matrix: Solid**
Date Received: 07/25/17 09:15 — **Percent Solids: 71.2**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.026	0.0041	mg/Kg	☼	07/27/17 05:30	07/27/17 13:34	1
Benzene	ND		0.0065	0.0025	mg/Kg	☼	07/27/17 05:30	07/27/17 13:34	1
2-Butanone (MEK)	ND		0.0065	0.0038	mg/Kg	☼	07/27/17 05:30	07/27/17 13:34	1
Carbon tetrachloride	ND		0.0065	0.0043	mg/Kg	☼	07/27/17 05:30	07/27/17 13:34	1
Chlorobenzene	ND		0.0065	0.0020	mg/Kg	☼	07/27/17 05:30	07/27/17 13:34	1
Chloroform	ND		0.0065	0.0027	mg/Kg	☼	07/27/17 05:30	07/27/17 13:34	1
cis-1,2-Dichloroethene	ND		0.0065	0.0020	mg/Kg	☼	07/27/17 05:30	07/27/17 13:34	1
1,2-Dichlorobenzene	ND		0.0065	0.0052	mg/Kg	☼	07/27/17 05:30	07/27/17 13:34	1
1,3-Dichlorobenzene	ND		0.0065	0.0021	mg/Kg	☼	07/27/17 05:30	07/27/17 13:34	1
1,4-Dichlorobenzene	ND		0.0065	0.0013	mg/Kg	☼	07/27/17 05:30	07/27/17 13:34	1
1,1-Dichloroethane	ND		0.0065	0.0023	mg/Kg	☼	07/27/17 05:30	07/27/17 13:34	1
1,2-Dichloroethane	ND		0.0065	0.0019	mg/Kg	☼	07/27/17 05:30	07/27/17 13:34	1
1,1-Dichloroethene	ND		0.0065	0.0037	mg/Kg	☼	07/27/17 05:30	07/27/17 13:34	1
Ethylbenzene	ND		0.0065	0.0028	mg/Kg	☼	07/27/17 05:30	07/27/17 13:34	1
Methylene Chloride	ND		0.0065	0.0031	mg/Kg	☼	07/27/17 05:30	07/27/17 13:34	1

Client Sample ID: WB 7-8, S4, A 072417 — Lab Sample ID: 180-68509-10

Date Collected: 07/24/17 12:05 — **Matrix: Solid**
Date Received: 07/25/17 09:15 — **Percent Solids: 71.2**

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.0065	0.0048	mg/Kg	☼	07/27/17 05:30	07/27/17 13:34	1
n-Butylbenzene	ND		0.0065	0.0049	mg/Kg	☼	07/27/17 05:30	07/27/17 13:34	1
N-Propylbenzene	ND		0.0065	0.0027	mg/Kg	☼	07/27/17 05:30	07/27/17 13:34	1
sec-Butylbenzene	ND		0.0065	0.0032	mg/Kg	☼	07/27/17 05:30	07/27/17 13:34	1
tert-Butylbenzene	ND		0.0065	0.0024	mg/Kg	☼	07/27/17 05:30	07/27/17 13:34	1
Tetrachloroethene	ND		0.0065	0.0026	mg/Kg	☼	07/27/17 05:30	07/27/17 13:34	1
Toluene	ND		0.0065	0.0022	mg/Kg	☼	07/27/17 05:30	07/27/17 13:34	1
trans-1,2-Dichloroethene	ND		0.0065	0.0033	mg/Kg	☼	07/27/17 05:30	07/27/17 13:34	1
1,1,1-Trichloroethane	ND		0.0065	0.0032	mg/Kg	☼	07/27/17 05:30	07/27/17 13:34	1
Trichloroethene	ND		0.0065	0.0019	mg/Kg	☼	07/27/17 05:30	07/27/17 13:34	1
1,2,4-Trimethylbenzene	ND		0.0065	0.0017	mg/Kg	☼	07/27/17 05:30	07/27/17 13:34	1
1,3,5-Trimethylbenzene	ND		0.0065	0.0022	mg/Kg	☼	07/27/17 05:30	07/27/17 13:34	1
Vinyl chloride	ND		0.0065	0.0048	mg/Kg	☼	07/27/17 05:30	07/27/17 13:34	1
Xylenes, Total	ND		0.013	0.0056	mg/Kg	☼	07/27/17 05:30	07/27/17 13:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*63 - 120*	*07/27/17 05:30*	*07/27/17 13:34*	*1*
Dibromofluoromethane (Surr)	*101*		*68 - 121*	*07/27/17 05:30*	*07/27/17 13:34*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*52 - 124*	*07/27/17 05:30*	*07/27/17 13:34*	*1*
Toluene-d8 (Surr)	*113*		*72 - 127*	*07/27/17 05:30*	*07/27/17 13:34*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**28.8**		0.1	0.1	%			07/25/17 15:39	1
Percent Solids	**71.2**		0.1	0.1	%			07/25/17 15:39	1

Client Sample ID: WB 7-8, S4, B 072417 — Lab Sample ID: 180-68509-11

Date Collected: 07/24/17 12:10 — **Matrix: Solid**
Date Received: 07/25/17 09:15 — **Percent Solids: 62.4**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.029	0.0046	mg/Kg	☼	07/27/17 05:30	07/27/17 13:57	1
Benzene	ND		0.0073	0.0028	mg/Kg	☼	07/27/17 05:30	07/27/17 13:57	1
2-Butanone (MEK)	ND		0.0073	0.0042	mg/Kg	☼	07/27/17 05:30	07/27/17 13:57	1
Carbon tetrachloride	ND		0.0073	0.0048	mg/Kg	☼	07/27/17 05:30	07/27/17 13:57	1
Chlorobenzene	ND		0.0073	0.0023	mg/Kg	☼	07/27/17 05:30	07/27/17 13:57	1
Chloroform	ND		0.0073	0.0031	mg/Kg	☼	07/27/17 05:30	07/27/17 13:57	1
cis-1,2-Dichloroethene	ND		0.0073	0.0023	mg/Kg	☼	07/27/17 05:30	07/27/17 13:57	1
1,2-Dichlorobenzene	ND		0.0073	0.0058	mg/Kg	☼	07/27/17 05:30	07/27/17 13:57	1
1,3-Dichlorobenzene	ND		0.0073	0.0023	mg/Kg	☼	07/27/17 05:30	07/27/17 13:57	1
1,4-Dichlorobenzene	ND		0.0073	0.0015	mg/Kg	☼	07/27/17 05:30	07/27/17 13:57	1
1,1-Dichloroethane	ND		0.0073	0.0026	mg/Kg	☼	07/27/17 05:30	07/27/17 13:57	1
1,2-Dichloroethane	ND		0.0073	0.0021	mg/Kg	☼	07/27/17 05:30	07/27/17 13:57	1
1,1-Dichloroethene	ND		0.0073	0.0041	mg/Kg	☼	07/27/17 05:30	07/27/17 13:57	1
Ethylbenzene	ND		0.0073	0.0031	mg/Kg	☼	07/27/17 05:30	07/27/17 13:57	1
Methylene Chloride	ND		0.0073	0.0034	mg/Kg	☼	07/27/17 05:30	07/27/17 13:57	1
Methyl tert-butyl ether	ND		0.0073	0.0053	mg/Kg	☼	07/27/17 05:30	07/27/17 13:57	1
n-Butylbenzene	ND		0.0073	0.0055	mg/Kg	☼	07/27/17 05:30	07/27/17 13:57	1
N-Propylbenzene	ND		0.0073	0.0031	mg/Kg	☼	07/27/17 05:30	07/27/17 13:57	1

Client Sample ID: WB 7-8, S4, B 072417 — Lab Sample ID: 180-68509-11

Date Collected: 07/24/17 12:10 — **Matrix: Solid**
Date Received: 07/25/17 09:15 — **Percent Solids: 62.4**

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		0.0073	0.0035	mg/Kg	☼	07/27/17 05:30	07/27/17 13:57	1
tert-Butylbenzene	ND		0.0073	0.0027	mg/Kg	☼	07/27/17 05:30	07/27/17 13:57	1
Tetrachloroethene	ND		0.0073	0.0029	mg/Kg	☼	07/27/17 05:30	07/27/17 13:57	1
Toluene	ND		0.0073	0.0024	mg/Kg	☼	07/27/17 05:30	07/27/17 13:57	1
trans-1,2-Dichloroethene	ND		0.0073	0.0037	mg/Kg	☼	07/27/17 05:30	07/27/17 13:57	1
1,1,1-Trichloroethane	ND		0.0073	0.0036	mg/Kg	☼	07/27/17 05:30	07/27/17 13:57	1
Trichloroethene	ND		0.0073	0.0022	mg/Kg	☼	07/27/17 05:30	07/27/17 13:57	1
1,2,4-Trimethylbenzene	ND		0.0073	0.0020	mg/Kg	☼	07/27/17 05:30	07/27/17 13:57	1
1,3,5-Trimethylbenzene	ND		0.0073	0.0025	mg/Kg	☼	07/27/17 05:30	07/27/17 13:57	1
Vinyl chloride	ND		0.0073	0.0053	mg/Kg	☼	07/27/17 05:30	07/27/17 13:57	1
Xylenes, Total	ND		0.015	0.0063	mg/Kg	☼	07/27/17 05:30	07/27/17 13:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*63 - 120*	*07/27/17 05:30*	*07/27/17 13:57*	*1*
Dibromofluoromethane (Surr)	*97*		*68 - 121*	*07/27/17 05:30*	*07/27/17 13:57*	*1*
1,2-Dichloroethane-d4 (Surr)	*90*		*52 - 124*	*07/27/17 05:30*	*07/27/17 13:57*	*1*
Toluene-d8 (Surr)	*109*		*72 - 127*	*07/27/17 05:30*	*07/27/17 13:57*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**37.6**		0.1	0.1	%			07/25/17 15:39	1
Percent Solids	**62.4**		0.1	0.1	%			07/25/17 15:39	1

Client Sample ID: WB 7-8, S4, C 072417 — Lab Sample ID: 180-68509-12

Date Collected: 07/24/17 12:15 — **Matrix: Solid**
Date Received: 07/25/17 09:15 — **Percent Solids: 71.8**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.0089**	**J**	0.0093	0.0031	mg/Kg	☼	07/27/17 11:21	07/27/17 21:46	1
Acenaphthylene	**0.052**		0.0093	0.0032	mg/Kg	☼	07/27/17 11:21	07/27/17 21:46	1
Anthracene	**0.050**		0.0093	0.0034	mg/Kg	☼	07/27/17 11:21	07/27/17 21:46	1
Benzo[a]anthracene	**0.12**		0.0093	0.0037	mg/Kg	☼	07/27/17 11:21	07/27/17 21:46	1
Benzo[a]pyrene	**0.13**		0.0093	0.0038	mg/Kg	☼	07/27/17 11:21	07/27/17 21:46	1
Benzo[b]fluoranthene	**0.17**		0.0093	0.0040	mg/Kg	☼	07/27/17 11:21	07/27/17 21:46	1
Benzo[g,h,i]perylene	**0.14**		0.0093	0.0040	mg/Kg	☼	07/27/17 11:21	07/27/17 21:46	1
Benzo[k]fluoranthene	**0.058**		0.0093	0.0032	mg/Kg	☼	07/27/17 11:21	07/27/17 21:46	1
Chrysene	**0.13**		0.0093	0.0036	mg/Kg	☼	07/27/17 11:21	07/27/17 21:46	1
Dibenz(a,h)anthracene	**0.037**		0.0093	0.0038	mg/Kg	☼	07/27/17 11:21	07/27/17 21:46	1
Dibenzofuran	**0.0078**	**J**	0.046	0.0037	mg/Kg	☼	07/27/17 11:21	07/27/17 21:46	1
1,4-Dioxane	ND		0.093	0.0070	mg/Kg	☼	07/27/17 11:21	07/27/17 21:46	1
Fluoranthene	**0.23**		0.0093	0.0037	mg/Kg	☼	07/27/17 11:21	07/27/17 21:46	1
Fluorene	**0.013**		0.0093	0.0033	mg/Kg	☼	07/27/17 11:21	07/27/17 21:46	1
Hexachlorobenzene	ND		0.0093	0.0037	mg/Kg	☼	07/27/17 11:21	07/27/17 21:46	1
Indeno[1,2,3-cd]pyrene	**0.12**		0.0093	0.0036	mg/Kg	☼	07/27/17 11:21	07/27/17 21:46	1
2-Methylphenol	ND		0.046	0.0041	mg/Kg	☼	07/27/17 11:21	07/27/17 21:46	1
Methylphenol, 3 & 4	**0.0074**	**J**	0.046	0.0041	mg/Kg	☼	07/27/17 11:21	07/27/17 21:46	1
Naphthalene	**0.016**		0.0093	0.0033	mg/Kg	☼	07/27/17 11:21	07/27/17 21:46	1
Pentachlorophenol	ND		0.24	0.088	mg/Kg	☼	07/27/17 11:21	07/27/17 21:46	1
Phenanthrene	**0.10**		0.0093	0.0039	mg/Kg	☼	07/27/17 11:21	07/27/17 21:46	1

Client Sample ID: WB 7-8, S4, C 072417 **Lab Sample ID: 180-68509-12**
Date Collected: 07/24/17 12:15 **Matrix: Solid**
Date Received: 07/25/17 09:15 **Percent Solids: 71.8**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		0.046	0.0063	mg/Kg	☼	07/27/17 11:21	07/27/17 21:46	1
Pyrene	**0.17**		0.0093	0.0041	mg/Kg	☼	07/27/17 11:21	07/27/17 21:46	1
Hexachloroethane	ND		46	3.3	ug/Kg	☼	07/27/17 11:21	07/27/17 21:46	1
Nitrobenzene	ND		93	3.6	ug/Kg	☼	07/27/17 11:21	07/27/17 21:46	1
Hexachlorobutadiene	ND		9.3	2.9	ug/Kg	☼	07/27/17 11:21	07/27/17 21:46	1
2,4,5-Trichlorophenol	ND		46	4.4	ug/Kg	☼	07/27/17 11:21	07/27/17 21:46	1
2,4,6-Trichlorophenol	ND		46	4.1	ug/Kg	☼	07/27/17 11:21	07/27/17 21:46	1
2,4-Dinitrotoluene	ND		46	6.2	ug/Kg	☼	07/27/17 11:21	07/27/17 21:46	1
Pyridine	ND		46	4.4	ug/Kg	☼	07/27/17 11:21	07/27/17 21:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*45*		*42 - 100*	*07/27/17 11:21*	*07/27/17 21:46*	*1*
2-Fluorophenol (Surr)	*49*		*21 - 107*	*07/27/17 11:21*	*07/27/17 21:46*	*1*
Nitrobenzene-d5 (Surr)	*43*		*35 - 109*	*07/27/17 11:21*	*07/27/17 21:46*	*1*
Phenol-d5 (Surr)	*46*		*29 - 105*	*07/27/17 11:21*	*07/27/17 21:46*	*1*
Terphenyl-d14 (Surr)	*41*		*36 - 113*	*07/27/17 11:21*	*07/27/17 21:46*	*1*
2,4,6-Tribromophenol (Surr)	*57*		*20 - 134*	*07/27/17 11:21*	*07/27/17 21:46*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.023	0.012	mg/Kg	☼	07/26/17 08:33	07/27/17 01:50	1
PCB-1221	ND		0.023	0.012	mg/Kg	☼	07/26/17 08:33	07/27/17 01:50	1
PCB-1232	ND		0.023	0.0091	mg/Kg	☼	07/26/17 08:33	07/27/17 01:50	1
PCB-1242	ND		0.023	0.018	mg/Kg	☼	07/26/17 08:33	07/27/17 01:50	1
PCB-1248	**1.0**		0.023	0.011	mg/Kg	☼	07/26/17 08:33	07/27/17 01:50	1
PCB-1254	**0.42**		0.023	0.010	mg/Kg	☼	07/26/17 08:33	07/27/17 01:50	1
PCB-1260	**0.040**		0.023	0.015	mg/Kg	☼	07/26/17 08:33	07/27/17 01:50	1
PCB-1262	ND		0.023	0.016	mg/Kg	☼	07/26/17 08:33	07/27/17 01:50	1
PCB-1268	ND		0.023	0.0070	mg/Kg	☼	07/26/17 08:33	07/27/17 01:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*66*		*23 - 150*	*07/26/17 08:33*	*07/27/17 01:50*	*1*
DCB Decachlorobiphenyl (Surr)	*65*		*23 - 150*	*07/26/17 08:33*	*07/27/17 01:50*	*1*
Tetrachloro-m-xylene (Surr)	*65*		*27 - 138*	*07/26/17 08:33*	*07/27/17 01:50*	*1*
Tetrachloro-m-xylene (Surr)	*66*		*27 - 138*	*07/26/17 08:33*	*07/27/17 01:50*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**5.9**		1.3	0.59	mg/Kg	☼	07/27/17 12:44	07/28/17 09:00	1
Barium	**95**		27	7.1	mg/Kg	☼	07/27/17 12:44	07/28/17 09:00	1
Beryllium	**0.34**	**J**	0.53	0.14	mg/Kg	☼	07/27/17 12:44	07/28/17 09:00	1
Cadmium	**0.19**	**J**	0.66	0.15	mg/Kg	☼	07/27/17 12:44	07/28/17 09:00	1
Chromium	**9.6**		0.66	0.17	mg/Kg	☼	07/27/17 12:44	07/28/17 09:00	1
Copper	**21**		3.3	1.0	mg/Kg	☼	07/27/17 12:44	07/28/17 09:00	1
Lead	**35**		1.3	0.44	mg/Kg	☼	07/27/17 12:44	07/28/17 09:00	1
Manganese	**450**		2.0	0.54	mg/Kg	☼	07/27/17 12:44	07/28/17 09:00	1
Nickel	**17**		5.3	1.2	mg/Kg	☼	07/27/17 12:44	07/28/17 09:00	1
Selenium	ND		1.3	0.53	mg/Kg	☼	07/27/17 12:44	07/28/17 09:00	1
Silver	ND		0.66	0.22	mg/Kg	☼	07/27/17 12:44	07/28/17 09:00	1
Zinc	**55**		2.7	1.3	mg/Kg	☼	07/27/17 12:44	07/28/17 09:00	1

Client Sample ID: WB 7-8, S4, C 072417

Lab Sample ID: 180-68509-12
Date Collected: 07/24/17 12:15
Matrix: Solid
Date Received: 07/25/17 09:15
Percent Solids: 71.8

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.048		0.044	0.0098	mg/Kg	☼	07/26/17 05:04	07/26/17 09:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	28.2		0.1	0.1	%			07/25/17 15:39	1
Percent Solids	71.8		0.1	0.1	%			07/25/17 15:39	1
Cyanide, Total	0.75		0.69	0.21	mg/Kg	☼	07/27/17 11:19	07/27/17 14:54	1

Client Sample ID: W9, S1, A 072417

Lab Sample ID: 180-68509-13
Date Collected: 07/24/17 13:10
Matrix: Solid
Date Received: 07/25/17 09:15
Percent Solids: 94.1

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.017	0.0028	mg/Kg	☼	07/27/17 05:30	07/27/17 14:20	1
Benzene	ND		0.0044	0.0017	mg/Kg	☼	07/27/17 05:30	07/27/17 14:20	1
2-Butanone (MEK)	ND		0.0044	0.0025	mg/Kg	☼	07/27/17 05:30	07/27/17 14:20	1
Carbon tetrachloride	ND		0.0044	0.0029	mg/Kg	☼	07/27/17 05:30	07/27/17 14:20	1
Chlorobenzene	ND		0.0044	0.0014	mg/Kg	☼	07/27/17 05:30	07/27/17 14:20	1
Chloroform	ND		0.0044	0.0018	mg/Kg	☼	07/27/17 05:30	07/27/17 14:20	1
cis-1,2-Dichloroethene	ND		0.0044	0.0014	mg/Kg	☼	07/27/17 05:30	07/27/17 14:20	1
1,2-Dichlorobenzene	ND		0.0044	0.0035	mg/Kg	☼	07/27/17 05:30	07/27/17 14:20	1
1,3-Dichlorobenzene	ND		0.0044	0.0014	mg/Kg	☼	07/27/17 05:30	07/27/17 14:20	1
1,4-Dichlorobenzene	ND		0.0044	0.00089	mg/Kg	☼	07/27/17 05:30	07/27/17 14:20	1
1,1-Dichloroethane	ND		0.0044	0.0016	mg/Kg	☼	07/27/17 05:30	07/27/17 14:20	1
1,2-Dichloroethane	ND		0.0044	0.0013	mg/Kg	☼	07/27/17 05:30	07/27/17 14:20	1
1,1-Dichloroethene	ND		0.0044	0.0025	mg/Kg	☼	07/27/17 05:30	07/27/17 14:20	1
Ethylbenzene	ND		0.0044	0.0019	mg/Kg	☼	07/27/17 05:30	07/27/17 14:20	1
Methylene Chloride	ND		0.0044	0.0021	mg/Kg	☼	07/27/17 05:30	07/27/17 14:20	1
Methyl tert-butyl ether	ND		0.0044	0.0032	mg/Kg	☼	07/27/17 05:30	07/27/17 14:20	1
n-Butylbenzene	ND		0.0044	0.0033	mg/Kg	☼	07/27/17 05:30	07/27/17 14:20	1
N-Propylbenzene	ND		0.0044	0.0018	mg/Kg	☼	07/27/17 05:30	07/27/17 14:20	1
sec-Butylbenzene	ND		0.0044	0.0021	mg/Kg	☼	07/27/17 05:30	07/27/17 14:20	1
tert-Butylbenzene	ND		0.0044	0.0016	mg/Kg	☼	07/27/17 05:30	07/27/17 14:20	1
Tetrachloroethene	ND		0.0044	0.0017	mg/Kg	☼	07/27/17 05:30	07/27/17 14:20	1
Toluene	ND		0.0044	0.0015	mg/Kg	☼	07/27/17 05:30	07/27/17 14:20	1
trans-1,2-Dichloroethene	ND		0.0044	0.0022	mg/Kg	☼	07/27/17 05:30	07/27/17 14:20	1
1,1,1-Trichloroethane	ND		0.0044	0.0022	mg/Kg	☼	07/27/17 05:30	07/27/17 14:20	1
Trichloroethene	ND		0.0044	0.0013	mg/Kg	☼	07/27/17 05:30	07/27/17 14:20	1
1,2,4-Trimethylbenzene	ND		0.0044	0.0012	mg/Kg	☼	07/27/17 05:30	07/27/17 14:20	1
1,3,5-Trimethylbenzene	ND		0.0044	0.0015	mg/Kg	☼	07/27/17 05:30	07/27/17 14:20	1
Vinyl chloride	ND		0.0044	0.0032	mg/Kg	☼	07/27/17 05:30	07/27/17 14:20	1
Xylenes, Total	ND		0.0087	0.0038	mg/Kg	☼	07/27/17 05:30	07/27/17 14:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*63 - 120*	*07/27/17 05:30*	*07/27/17 14:20*	*1*
Dibromofluoromethane (Surr)	*92*		*68 - 121*	*07/27/17 05:30*	*07/27/17 14:20*	*1*
1,2-Dichloroethane-d4 (Surr)	*84*		*52 - 124*	*07/27/17 05:30*	*07/27/17 14:20*	*1*
Toluene-d8 (Surr)	*101*		*72 - 127*	*07/27/17 05:30*	*07/27/17 14:20*	*1*

Client Sample ID: W9, S1, A 072417

Lab Sample ID: 180-68509-13
Date Collected: 07/24/17 13:10
Matrix: Solid
Date Received: 07/25/17 09:15
Percent Solids: 94.1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	5.9		0.1	0.1	%			07/25/17 15:39	1
Percent Solids	94.1		0.1	0.1	%			07/25/17 15:39	1

Client Sample ID: W9, S1, B 072417

Lab Sample ID: 180-68509-14
Date Collected: 07/24/17 13:15
Matrix: Solid
Date Received: 07/25/17 09:15
Percent Solids: 94.2

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.018	0.0029	mg/Kg	☼	07/27/17 05:30	07/27/17 14:42	1
Benzene	ND		0.0046	0.0018	mg/Kg	☼	07/27/17 05:30	07/27/17 14:42	1
2-Butanone (MEK)	ND		0.0046	0.0026	mg/Kg	☼	07/27/17 05:30	07/27/17 14:42	1
Carbon tetrachloride	ND		0.0046	0.0030	mg/Kg	☼	07/27/17 05:30	07/27/17 14:42	1
Chlorobenzene	ND		0.0046	0.0014	mg/Kg	☼	07/27/17 05:30	07/27/17 14:42	1
Chloroform	ND		0.0046	0.0019	mg/Kg	☼	07/27/17 05:30	07/27/17 14:42	1
cis-1,2-Dichloroethene	ND		0.0046	0.0014	mg/Kg	☼	07/27/17 05:30	07/27/17 14:42	1
1,2-Dichlorobenzene	ND		0.0046	0.0037	mg/Kg	☼	07/27/17 05:30	07/27/17 14:42	1
1,3-Dichlorobenzene	ND		0.0046	0.0015	mg/Kg	☼	07/27/17 05:30	07/27/17 14:42	1
1,4-Dichlorobenzene	ND		0.0046	0.00093	mg/Kg	☼	07/27/17 05:30	07/27/17 14:42	1
1,1-Dichloroethane	ND		0.0046	0.0017	mg/Kg	☼	07/27/17 05:30	07/27/17 14:42	1
1,2-Dichloroethane	ND		0.0046	0.0013	mg/Kg	☼	07/27/17 05:30	07/27/17 14:42	1
1,1-Dichloroethene	ND		0.0046	0.0026	mg/Kg	☼	07/27/17 05:30	07/27/17 14:42	1
Ethylbenzene	ND		0.0046	0.0020	mg/Kg	☼	07/27/17 05:30	07/27/17 14:42	1
Methylene Chloride	ND		0.0046	0.0022	mg/Kg	☼	07/27/17 05:30	07/27/17 14:42	1
Methyl tert-butyl ether	ND		0.0046	0.0034	mg/Kg	☼	07/27/17 05:30	07/27/17 14:42	1
n-Butylbenzene	ND		0.0046	0.0035	mg/Kg	☼	07/27/17 05:30	07/27/17 14:42	1
N-Propylbenzene	ND		0.0046	0.0019	mg/Kg	☼	07/27/17 05:30	07/27/17 14:42	1
sec-Butylbenzene	ND		0.0046	0.0022	mg/Kg	☼	07/27/17 05:30	07/27/17 14:42	1
tert-Butylbenzene	ND		0.0046	0.0017	mg/Kg	☼	07/27/17 05:30	07/27/17 14:42	1
Tetrachloroethene	ND		0.0046	0.0018	mg/Kg	☼	07/27/17 05:30	07/27/17 14:42	1
Toluene	ND		0.0046	0.0015	mg/Kg	☼	07/27/17 05:30	07/27/17 14:42	1
trans-1,2-Dichloroethene	ND		0.0046	0.0023	mg/Kg	☼	07/27/17 05:30	07/27/17 14:42	1
1,1,1-Trichloroethane	ND		0.0046	0.0023	mg/Kg	☼	07/27/17 05:30	07/27/17 14:42	1
Trichloroethene	ND		0.0046	0.0014	mg/Kg	☼	07/27/17 05:30	07/27/17 14:42	1
1,2,4-Trimethylbenzene	ND		0.0046	0.0012	mg/Kg	☼	07/27/17 05:30	07/27/17 14:42	1
1,3,5-Trimethylbenzene	ND		0.0046	0.0016	mg/Kg	☼	07/27/17 05:30	07/27/17 14:42	1
Vinyl chloride	ND		0.0046	0.0033	mg/Kg	☼	07/27/17 05:30	07/27/17 14:42	1
Xylenes, Total	ND		0.0091	0.0039	mg/Kg	☼	07/27/17 05:30	07/27/17 14:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*63 - 120*	*07/27/17 05:30*	*07/27/17 14:42*	*1*
Dibromofluoromethane (Surr)	*101*		*68 - 121*	*07/27/17 05:30*	*07/27/17 14:42*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*52 - 124*	*07/27/17 05:30*	*07/27/17 14:42*	*1*
Toluene-d8 (Surr)	*110*		*72 - 127*	*07/27/17 05:30*	*07/27/17 14:42*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	5.8		0.1	0.1	%			07/25/17 15:39	1
Percent Solids	94.2		0.1	0.1	%			07/25/17 15:39	1

Client Sample ID: W9, S1, C 072417
Date Collected: 07/24/17 13:20
Date Received: 07/25/17 09:15

Lab Sample ID: 180-68509-15
Matrix: Solid
Percent Solids: 92.1

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.021**	**J**	0.022	0.0073	mg/Kg	☼	07/27/17 11:21	07/27/17 22:13	3
Acenaphthylene	**0.052**		0.022	0.0074	mg/Kg	☼	07/27/17 11:21	07/27/17 22:13	3
Anthracene	**0.077**		0.022	0.0080	mg/Kg	☼	07/27/17 11:21	07/27/17 22:13	3
Benzo[a]anthracene	**0.29**		0.022	0.0086	mg/Kg	☼	07/27/17 11:21	07/27/17 22:13	3
Benzo[a]pyrene	**0.31**		0.022	0.0090	mg/Kg	☼	07/27/17 11:21	07/27/17 22:13	3
Benzo[b]fluoranthene	**0.41**		0.022	0.0094	mg/Kg	☼	07/27/17 11:21	07/27/17 22:13	3
Benzo[g,h,i]perylene	**0.34**		0.022	0.0094	mg/Kg	☼	07/27/17 11:21	07/27/17 22:13	3
Benzo[k]fluoranthene	**0.14**		0.022	0.0075	mg/Kg	☼	07/27/17 11:21	07/27/17 22:13	3
Chrysene	**0.36**		0.022	0.0085	mg/Kg	☼	07/27/17 11:21	07/27/17 22:13	3
Dibenz(a,h)anthracene	**0.084**		0.022	0.0090	mg/Kg	☼	07/27/17 11:21	07/27/17 22:13	3
Dibenzofuran	**0.027**	**J**	0.11	0.0087	mg/Kg	☼	07/27/17 11:21	07/27/17 22:13	3
1,4-Dioxane	ND		0.22	0.016	mg/Kg	☼	07/27/17 11:21	07/27/17 22:13	3
Fluoranthene	**0.65**		0.022	0.0086	mg/Kg	☼	07/27/17 11:21	07/27/17 22:13	3
Fluorene	**0.026**		0.022	0.0077	mg/Kg	☼	07/27/17 11:21	07/27/17 22:13	3
Hexachlorobenzene	ND		0.022	0.0087	mg/Kg	☼	07/27/17 11:21	07/27/17 22:13	3
Indeno[1,2,3-cd]pyrene	**0.31**		0.022	0.0084	mg/Kg	☼	07/27/17 11:21	07/27/17 22:13	3
2-Methylphenol	ND		0.11	0.0096	mg/Kg	☼	07/27/17 11:21	07/27/17 22:13	3
Methylphenol, 3 & 4	ND		0.11	0.0096	mg/Kg	☼	07/27/17 11:21	07/27/17 22:13	3
Naphthalene	**0.047**		0.022	0.0078	mg/Kg	☼	07/27/17 11:21	07/27/17 22:13	3
Pentachlorophenol	ND		0.55	0.21	mg/Kg	☼	07/27/17 11:21	07/27/17 22:13	3
Phenanthrene	**0.28**		0.022	0.0091	mg/Kg	☼	07/27/17 11:21	07/27/17 22:13	3
Phenol	ND		0.11	0.015	mg/Kg	☼	07/27/17 11:21	07/27/17 22:13	3
Pyrene	**0.45**		0.022	0.0097	mg/Kg	☼	07/27/17 11:21	07/27/17 22:13	3
Hexachloroethane	ND		110	7.8	ug/Kg	☼	07/27/17 11:21	07/27/17 22:13	3
Nitrobenzene	ND		220	8.3	ug/Kg	☼	07/27/17 11:21	07/27/17 22:13	3
Hexachlorobutadiene	ND		22	6.8	ug/Kg	☼	07/27/17 11:21	07/27/17 22:13	3
2,4,5-Trichlorophenol	ND		110	10	ug/Kg	☼	07/27/17 11:21	07/27/17 22:13	3
2,4,6-Trichlorophenol	ND		110	9.5	ug/Kg	☼	07/27/17 11:21	07/27/17 22:13	3
2,4-Dinitrotoluene	ND		110	14	ug/Kg	☼	07/27/17 11:21	07/27/17 22:13	3
Pyridine	ND		110	10	ug/Kg	☼	07/27/17 11:21	07/27/17 22:13	3

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*72*		*42 - 100*	*07/27/17 11:21*	*07/27/17 22:13*	*3*
2-Fluorophenol (Surr)	*62*		*21 - 107*	*07/27/17 11:21*	*07/27/17 22:13*	*3*
Nitrobenzene-d5 (Surr)	*62*		*35 - 109*	*07/27/17 11:21*	*07/27/17 22:13*	*3*
Phenol-d5 (Surr)	*64*		*29 - 105*	*07/27/17 11:21*	*07/27/17 22:13*	*3*
Terphenyl-d14 (Surr)	*62*		*36 - 113*	*07/27/17 11:21*	*07/27/17 22:13*	*3*
2,4,6-Tribromophenol (Surr)	*84*		*20 - 134*	*07/27/17 11:21*	*07/27/17 22:13*	*3*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.018	0.0095	mg/Kg	☼	07/26/17 08:33	07/27/17 02:11	1
PCB-1221	ND		0.018	0.0093	mg/Kg	☼	07/26/17 08:33	07/27/17 02:11	1
PCB-1232	ND		0.018	0.0071	mg/Kg	☼	07/26/17 08:33	07/27/17 02:11	1
PCB-1242	ND		0.018	0.014	mg/Kg	☼	07/26/17 08:33	07/27/17 02:11	1
PCB-1248	**0.15**		0.018	0.0086	mg/Kg	☼	07/26/17 08:33	07/27/17 02:11	1
PCB-1254	**0.053**		0.018	0.0079	mg/Kg	☼	07/26/17 08:33	07/27/17 02:11	1
PCB-1260	ND		0.018	0.012	mg/Kg	☼	07/26/17 08:33	07/27/17 02:11	1
PCB-1262	ND		0.018	0.013	mg/Kg	☼	07/26/17 08:33	07/27/17 02:11	1
PCB-1268	ND		0.018	0.0055	mg/Kg	☼	07/26/17 08:33	07/27/17 02:11	1

Client Sample ID: W9, S1, C 072417

Lab Sample ID: 180-68509-15

Date Collected: 07/24/17 13:20
Matrix: Solid
Date Received: 07/25/17 09:15
Percent Solids: 92.1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	65		23 - 150	07/26/17 08:33	07/27/17 02:11	1
DCB Decachlorobiphenyl (Surr)	70		23 - 150	07/26/17 08:33	07/27/17 02:11	1
Tetrachloro-m-xylene (Surr)	68		27 - 138	07/26/17 08:33	07/27/17 02:11	1
Tetrachloro-m-xylene (Surr)	71		27 - 138	07/26/17 08:33	07/27/17 02:11	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.7		1.1	0.50	mg/Kg	☼	07/27/17 12:44	07/28/17 09:05	1
Barium	68		23	6.1	mg/Kg	☼	07/27/17 12:44	07/28/17 09:05	1
Beryllium	0.33	J	0.45	0.12	mg/Kg	☼	07/27/17 12:44	07/28/17 09:05	1
Cadmium	0.15	J	0.57	0.13	mg/Kg	☼	07/27/17 12:44	07/28/17 09:05	1
Chromium	10		0.57	0.15	mg/Kg	☼	07/27/17 12:44	07/28/17 09:05	1
Copper	34		2.8	0.87	mg/Kg	☼	07/27/17 12:44	07/28/17 09:05	1
Lead	35		1.1	0.37	mg/Kg	☼	07/27/17 12:44	07/28/17 09:05	1
Manganese	500		1.7	0.46	mg/Kg	☼	07/27/17 12:44	07/28/17 09:05	1
Nickel	19		4.5	1.0	mg/Kg	☼	07/27/17 12:44	07/28/17 09:05	1
Selenium	ND		1.1	0.45	mg/Kg	☼	07/27/17 12:44	07/28/17 09:05	1
Silver	ND		0.57	0.19	mg/Kg	☼	07/27/17 12:44	07/28/17 09:05	1
Zinc	64		2.3	1.1	mg/Kg	☼	07/27/17 12:44	07/28/17 09:05	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.022	J	0.034	0.0076	mg/Kg	☼	07/26/17 05:04	07/26/17 09:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	7.9		0.1	0.1	%			07/25/17 15:39	1
Percent Solids	92.1		0.1	0.1	%			07/25/17 15:39	1
Cyanide, Total	0.37	J	0.53	0.16	mg/Kg	☼	07/27/17 11:19	07/27/17 14:56	1

Client Sample ID: TRIP BLANK

Lab Sample ID: 180-68509-22

Date Collected: 07/24/17 00:00
Matrix: Water
Date Received: 07/25/17 09:15

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		5.0	3.1	ug/L			07/26/17 10:33	1
Benzene	ND		1.0	0.18	ug/L			07/26/17 10:33	1
2-Butanone (MEK)	ND		5.0	2.6	ug/L			07/26/17 10:33	1
Carbon tetrachloride	ND		1.0	0.56	ug/L			07/26/17 10:33	1
Chlorobenzene	ND		1.0	0.15	ug/L			07/26/17 10:33	1
Chloroform	ND		1.0	0.27	ug/L			07/26/17 10:33	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			07/26/17 10:33	1
1,2-Dichlorobenzene	ND		1.0	0.23	ug/L			07/26/17 10:33	1
1,3-Dichlorobenzene	ND		1.0	0.21	ug/L			07/26/17 10:33	1
1,4-Dichlorobenzene	ND		1.0	0.24	ug/L			07/26/17 10:33	1
1,1-Dichloroethane	ND		1.0	0.34	ug/L			07/26/17 10:33	1
1,2-Dichloroethane	ND		1.0	0.24	ug/L			07/26/17 10:33	1
1,1-Dichloroethene	ND		1.0	0.32	ug/L			07/26/17 10:33	1
Ethylbenzene	ND		1.0	0.25	ug/L			07/26/17 10:33	1
Methylene Chloride	ND		1.0	0.94	ug/L			07/26/17 10:33	1

Client Sample ID: TRIP BLANK

Lab Sample ID: 180-68509-22
Date Collected: 07/24/17 00:00
Matrix: Water
Date Received: 07/25/17 09:15

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		1.0	0.20	ug/L			07/26/17 10:33	1
n-Butylbenzene	ND		1.0	0.22	ug/L			07/26/17 10:33	1
N-Propylbenzene	ND		1.0	0.20	ug/L			07/26/17 10:33	1
sec-Butylbenzene	ND		1.0	0.22	ug/L			07/26/17 10:33	1
tert-Butylbenzene	ND		1.0	0.17	ug/L			07/26/17 10:33	1
Tetrachloroethene	ND		1.0	0.24	ug/L			07/26/17 10:33	1
Toluene	ND		1.0	0.16	ug/L			07/26/17 10:33	1
trans-1,2-Dichloroethene	ND		1.0	0.20	ug/L			07/26/17 10:33	1
1,1,1-Trichloroethane	ND		1.0	0.27	ug/L			07/26/17 10:33	1
Trichloroethene	ND		1.0	0.20	ug/L			07/26/17 10:33	1
1,2,4-Trimethylbenzene	ND		1.0	0.18	ug/L			07/26/17 10:33	1
1,3,5-Trimethylbenzene	ND		1.0	0.17	ug/L			07/26/17 10:33	1
Vinyl chloride	ND		1.0	0.17	ug/L			07/26/17 10:33	1
Xylenes, Total	ND		2.0	0.27	ug/L			07/26/17 10:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*72 - 120*		*07/26/17 10:33*	*1*
Dibromofluoromethane (Surr)	*90*		*77 - 127*		*07/26/17 10:33*	*1*
1,2-Dichloroethane-d4 (Surr)	*81*		*72 - 134*		*07/26/17 10:33*	*1*
Toluene-d8 (Surr)	*91*		*80 - 120*		*07/26/17 10:33*	*1*

Client Sample ID: DUP 15

Lab Sample ID: 180-68509-23
Date Collected: 07/24/17 00:00
Matrix: Solid
Date Received: 07/25/17 09:15
Percent Solids: 94.1

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.016	0.0025	mg/Kg	☼	07/27/17 05:30	07/27/17 15:05	1
Benzene	ND		0.0039	0.0015	mg/Kg	☼	07/27/17 05:30	07/27/17 15:05	1
2-Butanone (MEK)	ND		0.0039	0.0023	mg/Kg	☼	07/27/17 05:30	07/27/17 15:05	1
Carbon tetrachloride	ND		0.0039	0.0026	mg/Kg	☼	07/27/17 05:30	07/27/17 15:05	1
Chlorobenzene	ND		0.0039	0.0012	mg/Kg	☼	07/27/17 05:30	07/27/17 15:05	1
Chloroform	ND		0.0039	0.0017	mg/Kg	☼	07/27/17 05:30	07/27/17 15:05	1
cis-1,2-Dichloroethene	ND		0.0039	0.0012	mg/Kg	☼	07/27/17 05:30	07/27/17 15:05	1
1,2-Dichlorobenzene	ND		0.0039	0.0032	mg/Kg	☼	07/27/17 05:30	07/27/17 15:05	1
1,3-Dichlorobenzene	ND		0.0039	0.0013	mg/Kg	☼	07/27/17 05:30	07/27/17 15:05	1
1,4-Dichlorobenzene	ND		0.0039	0.00080	mg/Kg	☼	07/27/17 05:30	07/27/17 15:05	1
1,1-Dichloroethane	ND		0.0039	0.0014	mg/Kg	☼	07/27/17 05:30	07/27/17 15:05	1
1,2-Dichloroethane	ND		0.0039	0.0011	mg/Kg	☼	07/27/17 05:30	07/27/17 15:05	1
1,1-Dichloroethene	ND		0.0039	0.0022	mg/Kg	☼	07/27/17 05:30	07/27/17 15:05	1
Ethylbenzene	ND		0.0039	0.0017	mg/Kg	☼	07/27/17 05:30	07/27/17 15:05	1
Methylene Chloride	ND		0.0039	0.0019	mg/Kg	☼	07/27/17 05:30	07/27/17 15:05	1
Methyl tert-butyl ether	ND		0.0039	0.0029	mg/Kg	☼	07/27/17 05:30	07/27/17 15:05	1
n-Butylbenzene	ND		0.0039	0.0030	mg/Kg	☼	07/27/17 05:30	07/27/17 15:05	1
N-Propylbenzene	ND		0.0039	0.0017	mg/Kg	☼	07/27/17 05:30	07/27/17 15:05	1
sec-Butylbenzene	ND		0.0039	0.0019	mg/Kg	☼	07/27/17 05:30	07/27/17 15:05	1
tert-Butylbenzene	ND		0.0039	0.0014	mg/Kg	☼	07/27/17 05:30	07/27/17 15:05	1
Tetrachloroethene	ND		0.0039	0.0016	mg/Kg	☼	07/27/17 05:30	07/27/17 15:05	1
Toluene	ND		0.0039	0.0013	mg/Kg	☼	07/27/17 05:30	07/27/17 15:05	1
trans-1,2-Dichloroethene	ND		0.0039	0.0020	mg/Kg	☼	07/27/17 05:30	07/27/17 15:05	1

Client Sample ID: DUP 15

Date Collected: 07/24/17 00:00
Date Received: 07/25/17 09:15

Lab Sample ID: 180-68509-23

Matrix: Solid
Percent Solids: 94.1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.0039	0.0020	mg/Kg	☼	07/27/17 05:30	07/27/17 15:05	1
Trichloroethene	ND		0.0039	0.0012	mg/Kg	☼	07/27/17 05:30	07/27/17 15:05	1
1,2,4-Trimethylbenzene	ND		0.0039	0.0011	mg/Kg	☼	07/27/17 05:30	07/27/17 15:05	1
1,3,5-Trimethylbenzene	ND		0.0039	0.0014	mg/Kg	☼	07/27/17 05:30	07/27/17 15:05	1
Vinyl chloride	ND		0.0039	0.0029	mg/Kg	☼	07/27/17 05:30	07/27/17 15:05	1
Xylenes, Total	ND		0.0079	0.0034	mg/Kg	☼	07/27/17 05:30	07/27/17 15:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*63 - 120*	*07/27/17 05:30*	*07/27/17 15:05*	*1*
Dibromofluoromethane (Surr)	*104*		*68 - 121*	*07/27/17 05:30*	*07/27/17 15:05*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*52 - 124*	*07/27/17 05:30*	*07/27/17 15:05*	*1*
Toluene-d8 (Surr)	*115*		*72 - 127*	*07/27/17 05:30*	*07/27/17 15:05*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**5.9**		0.1	0.1	%			07/25/17 15:39	1
Percent Solids	**94.1**		0.1	0.1	%			07/25/17 15:39	1

Client Sample ID: DUP 14

Date Collected: 07/24/17 00:00
Date Received: 07/25/17 09:15

Lab Sample ID: 180-68509-24

Matrix: Solid
Percent Solids: 68.7

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.0085**	**J**	0.020	0.0065	mg/Kg	☼	07/27/17 11:21	07/27/17 22:40	2
Acenaphthylene	**0.064**		0.020	0.0066	mg/Kg	☼	07/27/17 11:21	07/27/17 22:40	2
Anthracene	**0.056**		0.020	0.0072	mg/Kg	☼	07/27/17 11:21	07/27/17 22:40	2
Benzo[a]anthracene	**0.13**		0.020	0.0077	mg/Kg	☼	07/27/17 11:21	07/27/17 22:40	2
Benzo[a]pyrene	**0.14**		0.020	0.0080	mg/Kg	☼	07/27/17 11:21	07/27/17 22:40	2
Benzo[b]fluoranthene	**0.19**		0.020	0.0084	mg/Kg	☼	07/27/17 11:21	07/27/17 22:40	2
Benzo[g,h,i]perylene	**0.14**		0.020	0.0084	mg/Kg	☼	07/27/17 11:21	07/27/17 22:40	2
Benzo[k]fluoranthene	**0.058**		0.020	0.0067	mg/Kg	☼	07/27/17 11:21	07/27/17 22:40	2
Chrysene	**0.15**		0.020	0.0076	mg/Kg	☼	07/27/17 11:21	07/27/17 22:40	2
Dibenz(a,h)anthracene	**0.038**		0.020	0.0080	mg/Kg	☼	07/27/17 11:21	07/27/17 22:40	2
Dibenzofuran	**0.0097**	**J**	0.096	0.0078	mg/Kg	☼	07/27/17 11:21	07/27/17 22:40	2
1,4-Dioxane	ND		0.19	0.015	mg/Kg	☼	07/27/17 11:21	07/27/17 22:40	2
Fluoranthene	**0.25**		0.020	0.0077	mg/Kg	☼	07/27/17 11:21	07/27/17 22:40	2
Fluorene	**0.014**	**J**	0.020	0.0069	mg/Kg	☼	07/27/17 11:21	07/27/17 22:40	2
Hexachlorobenzene	ND		0.020	0.0078	mg/Kg	☼	07/27/17 11:21	07/27/17 22:40	2
Indeno[1,2,3-cd]pyrene	**0.13**		0.020	0.0075	mg/Kg	☼	07/27/17 11:21	07/27/17 22:40	2
2-Methylphenol	ND		0.096	0.0086	mg/Kg	☼	07/27/17 11:21	07/27/17 22:40	2
Methylphenol, 3 & 4	**0.016**	**J**	0.096	0.0086	mg/Kg	☼	07/27/17 11:21	07/27/17 22:40	2
Naphthalene	**0.016**	**J**	0.020	0.0070	mg/Kg	☼	07/27/17 11:21	07/27/17 22:40	2
Pentachlorophenol	ND		0.49	0.18	mg/Kg	☼	07/27/17 11:21	07/27/17 22:40	2
Phenanthrene	**0.095**		0.020	0.0081	mg/Kg	☼	07/27/17 11:21	07/27/17 22:40	2
Phenol	ND		0.096	0.013	mg/Kg	☼	07/27/17 11:21	07/27/17 22:40	2
Pyrene	**0.19**		0.020	0.0086	mg/Kg	☼	07/27/17 11:21	07/27/17 22:40	2
Hexachloroethane	ND		96	7.0	ug/Kg	☼	07/27/17 11:21	07/27/17 22:40	2
Nitrobenzene	ND		190	7.4	ug/Kg	☼	07/27/17 11:21	07/27/17 22:40	2
Hexachlorobutadiene	ND		20	6.1	ug/Kg	☼	07/27/17 11:21	07/27/17 22:40	2

Client Sample ID: DUP 14 **Lab Sample ID: 180-68509-24**
Date Collected: 07/24/17 00:00 **Matrix: Solid**
Date Received: 07/25/17 09:15 **Percent Solids: 68.7**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		96	9.2	ug/Kg	☼	07/27/17 11:21	07/27/17 22:40	2
2,4,6-Trichlorophenol	ND		96	8.5	ug/Kg	☼	07/27/17 11:21	07/27/17 22:40	2
2,4-Dinitrotoluene	ND		96	13	ug/Kg	☼	07/27/17 11:21	07/27/17 22:40	2
Pyridine	ND		96	9.3	ug/Kg	☼	07/27/17 11:21	07/27/17 22:40	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*60*		*42 - 100*	*07/27/17 11:21*	*07/27/17 22:40*	*2*
2-Fluorophenol (Surr)	*59*		*21 - 107*	*07/27/17 11:21*	*07/27/17 22:40*	*2*
Nitrobenzene-d5 (Surr)	*54*		*35 - 109*	*07/27/17 11:21*	*07/27/17 22:40*	*2*
Phenol-d5 (Surr)	*58*		*29 - 105*	*07/27/17 11:21*	*07/27/17 22:40*	*2*
Terphenyl-d14 (Surr)	*54*		*36 - 113*	*07/27/17 11:21*	*07/27/17 22:40*	*2*
2,4,6-Tribromophenol (Surr)	*78*		*20 - 134*	*07/27/17 11:21*	*07/27/17 22:40*	*2*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.024	0.013	mg/Kg	☼	07/26/17 08:33	07/27/17 03:36	1
PCB-1221	ND		0.024	0.012	mg/Kg	☼	07/26/17 08:33	07/27/17 03:36	1
PCB-1232	ND		0.024	0.0095	mg/Kg	☼	07/26/17 08:33	07/27/17 03:36	1
PCB-1242	ND		0.024	0.019	mg/Kg	☼	07/26/17 08:33	07/27/17 03:36	1
PCB-1248	**1.5**		0.024	0.011	mg/Kg	☼	07/26/17 08:33	07/27/17 03:36	1
PCB-1254	**0.48**		0.024	0.010	mg/Kg	☼	07/26/17 08:33	07/27/17 03:36	1
PCB-1260	**0.043**		0.024	0.016	mg/Kg	☼	07/26/17 08:33	07/27/17 03:36	1
PCB-1262	ND		0.024	0.017	mg/Kg	☼	07/26/17 08:33	07/27/17 03:36	1
PCB-1268	ND		0.024	0.0073	mg/Kg	☼	07/26/17 08:33	07/27/17 03:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*64*		*23 - 150*	*07/26/17 08:33*	*07/27/17 03:36*	*1*
DCB Decachlorobiphenyl (Surr)	*69*		*23 - 150*	*07/26/17 08:33*	*07/27/17 03:36*	*1*
Tetrachloro-m-xylene (Surr)	*68*		*27 - 138*	*07/26/17 08:33*	*07/27/17 03:36*	*1*
Tetrachloro-m-xylene (Surr)	*62*		*27 - 138*	*07/26/17 08:33*	*07/27/17 03:36*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**7.3**		1.5	0.68	mg/Kg	☼	07/27/17 12:44	07/28/17 09:11	1
Barium	**110**		31	8.3	mg/Kg	☼	07/27/17 12:44	07/28/17 09:11	1
Beryllium	**0.45**	**J**	0.62	0.16	mg/Kg	☼	07/27/17 12:44	07/28/17 09:11	1
Cadmium	**0.29**	**J**	0.77	0.17	mg/Kg	☼	07/27/17 12:44	07/28/17 09:11	1
Chromium	**12**		0.77	0.20	mg/Kg	☼	07/27/17 12:44	07/28/17 09:11	1
Copper	**26**		3.9	1.2	mg/Kg	☼	07/27/17 12:44	07/28/17 09:11	1
Lead	**41**		1.5	0.51	mg/Kg	☼	07/27/17 12:44	07/28/17 09:11	1
Manganese	**490**		2.3	0.63	mg/Kg	☼	07/27/17 12:44	07/28/17 09:11	1
Nickel	**22**		6.2	1.4	mg/Kg	☼	07/27/17 12:44	07/28/17 09:11	1
Selenium	ND		1.5	0.61	mg/Kg	☼	07/27/17 12:44	07/28/17 09:11	1
Silver	ND		0.77	0.26	mg/Kg	☼	07/27/17 12:44	07/28/17 09:11	1
Zinc	**81**		3.1	1.6	mg/Kg	☼	07/27/17 12:44	07/28/17 09:11	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.051**		0.046	0.010	mg/Kg	☼	07/26/17 05:04	07/26/17 09:30	1

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68509-1

Client Sample ID: DUP 14
Date Collected: 07/24/17 00:00
Date Received: 07/25/17 09:15

Lab Sample ID: 180-68509-24
Matrix: Solid
Percent Solids: 68.7

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	31.3		0.1	0.1	%			07/25/17 15:39	1
Percent Solids	68.7		0.1	0.1	%			07/25/17 15:39	1
Cyanide, Total	0.41	J	0.72	0.22	mg/Kg	☼	07/27/17 11:19	07/27/17 14:57	1

Method: 8260C - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 180-218093/6
Matrix: Water
Analysis Batch: 218093

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		5.0	3.1	ug/L			07/26/17 03:21	1
Benzene	ND		1.0	0.18	ug/L			07/26/17 03:21	1
2-Butanone (MEK)	ND		5.0	2.6	ug/L			07/26/17 03:21	1
Carbon tetrachloride	ND		1.0	0.56	ug/L			07/26/17 03:21	1
Chlorobenzene	ND		1.0	0.15	ug/L			07/26/17 03:21	1
Chloroform	ND		1.0	0.27	ug/L			07/26/17 03:21	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			07/26/17 03:21	1
1,2-Dichlorobenzene	ND		1.0	0.23	ug/L			07/26/17 03:21	1
1,3-Dichlorobenzene	ND		1.0	0.21	ug/L			07/26/17 03:21	1
1,4-Dichlorobenzene	ND		1.0	0.24	ug/L			07/26/17 03:21	1
1,1-Dichloroethane	ND		1.0	0.34	ug/L			07/26/17 03:21	1
1,2-Dichloroethane	ND		1.0	0.24	ug/L			07/26/17 03:21	1
1,1-Dichloroethene	ND		1.0	0.32	ug/L			07/26/17 03:21	1
Ethylbenzene	ND		1.0	0.25	ug/L			07/26/17 03:21	1
Methylene Chloride	ND		1.0	0.94	ug/L			07/26/17 03:21	1
Methyl tert-butyl ether	ND		1.0	0.20	ug/L			07/26/17 03:21	1
n-Butylbenzene	ND		1.0	0.22	ug/L			07/26/17 03:21	1
N-Propylbenzene	ND		1.0	0.20	ug/L			07/26/17 03:21	1
sec-Butylbenzene	ND		1.0	0.22	ug/L			07/26/17 03:21	1
tert-Butylbenzene	ND		1.0	0.17	ug/L			07/26/17 03:21	1
Tetrachloroethene	ND		1.0	0.24	ug/L			07/26/17 03:21	1
Toluene	ND		1.0	0.16	ug/L			07/26/17 03:21	1
trans-1,2-Dichloroethene	ND		1.0	0.20	ug/L			07/26/17 03:21	1
1,1,1-Trichloroethane	ND		1.0	0.27	ug/L			07/26/17 03:21	1
Trichloroethene	ND		1.0	0.20	ug/L			07/26/17 03:21	1
1,2,4-Trimethylbenzene	ND		1.0	0.18	ug/L			07/26/17 03:21	1
1,3,5-Trimethylbenzene	ND		1.0	0.17	ug/L			07/26/17 03:21	1
Vinyl chloride	ND		1.0	0.17	ug/L			07/26/17 03:21	1
Xylenes, Total	ND		2.0	0.27	ug/L			07/26/17 03:21	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*72 - 120*		*07/26/17 03:21*	*1*
Dibromofluoromethane (Surr)	*91*		*77 - 127*		*07/26/17 03:21*	*1*
1,2-Dichloroethane-d4 (Surr)	*86*		*72 - 134*		*07/26/17 03:21*	*1*
Toluene-d8 (Surr)	*92*		*80 - 120*		*07/26/17 03:21*	*1*

Lab Sample ID: LCS 180-218093/3
Matrix: Water
Analysis Batch: 218093

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	20.0	22.3		ug/L		111	10 - 150
Benzene	10.0	10.7		ug/L		107	80 - 121
2-Butanone (MEK)	20.0	21.1		ug/L		105	41 - 150
Carbon tetrachloride	10.0	10.6		ug/L		106	59 - 145
Chlorobenzene	10.0	10.8		ug/L		108	80 - 120
Chloroform	10.0	10.6		ug/L		106	78 - 122
cis-1,2-Dichloroethene	10.0	10.2		ug/L		102	80 - 120

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 180-218093/3
Matrix: Water
Analysis Batch: 218093

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichlorobenzene	10.0	10.5		ug/L		105	80 - 120
1,3-Dichlorobenzene	10.0	10.4		ug/L		104	80 - 120
1,4-Dichlorobenzene	10.0	10.4		ug/L		104	80 - 120
1,1-Dichloroethane	10.0	10.5		ug/L		105	76 - 126
1,2-Dichloroethane	10.0	9.61		ug/L		96	72 - 126
1,1-Dichloroethene	10.0	11.0		ug/L		110	71 - 122
Ethylbenzene	10.0	11.1		ug/L		111	80 - 123
Methylene Chloride	10.0	9.52		ug/L		95	71 - 129
Methyl tert-butyl ether	10.0	9.79		ug/L		98	68 - 124
n-Butylbenzene	10.0	11.9		ug/L		119	75 - 120
N-Propylbenzene	10.0	10.4		ug/L		104	78 - 121
sec-Butylbenzene	10.0	11.6		ug/L		116	80 - 121
tert-Butylbenzene	10.0	11.3		ug/L		113	79 - 120
Tetrachloroethene	10.0	10.7		ug/L		107	80 - 122
Toluene	10.0	11.2		ug/L		112	80 - 125
trans-1,2-Dichloroethene	10.0	10.6		ug/L		106	80 - 121
1,1,1-Trichloroethane	10.0	10.2		ug/L		102	57 - 128
Trichloroethene	10.0	10.1		ug/L		101	79 - 120
1,2,4-Trimethylbenzene	10.0	11.3		ug/L		113	80 - 120
1,3,5-Trimethylbenzene	10.0	11.3		ug/L		113	80 - 122
Vinyl chloride	10.0	10.8		ug/L		108	61 - 138
Xylenes, Total	20.0	22.4		ug/L		112	80 - 123

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*107*		*72 - 120*
Dibromofluoromethane (Surr)	*102*		*77 - 127*
1,2-Dichloroethane-d4 (Surr)	*94*		*72 - 134*
Toluene-d8 (Surr)	*115*		*80 - 120*

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 180-218103/7
Matrix: Solid
Analysis Batch: 218103

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.020	0.0032	mg/Kg			07/26/17 09:00	1
Benzene	ND		0.0050	0.0020	mg/Kg			07/26/17 09:00	1
2-Butanone (MEK)	ND		0.0050	0.0029	mg/Kg			07/26/17 09:00	1
Carbon tetrachloride	ND		0.0050	0.0033	mg/Kg			07/26/17 09:00	1
Chlorobenzene	ND		0.0050	0.0016	mg/Kg			07/26/17 09:00	1
Chloroform	ND		0.0050	0.0021	mg/Kg			07/26/17 09:00	1
cis-1,2-Dichloroethene	ND		0.0050	0.0016	mg/Kg			07/26/17 09:00	1
1,2-Dichlorobenzene	ND		0.0050	0.0040	mg/Kg			07/26/17 09:00	1
1,3-Dichlorobenzene	ND		0.0050	0.0016	mg/Kg			07/26/17 09:00	1
1,4-Dichlorobenzene	ND		0.0050	0.0010	mg/Kg			07/26/17 09:00	1
1,1-Dichloroethane	ND		0.0050	0.0018	mg/Kg			07/26/17 09:00	1
1,2-Dichloroethane	ND		0.0050	0.0015	mg/Kg			07/26/17 09:00	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 180-218103/7
Matrix: Solid
Analysis Batch: 218103

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		0.0050	0.0029	mg/Kg			07/26/17 09:00	1
Ethylbenzene	ND		0.0050	0.0022	mg/Kg			07/26/17 09:00	1
Methylene Chloride	ND		0.0050	0.0024	mg/Kg			07/26/17 09:00	1
Methyl tert-butyl ether	ND		0.0050	0.0037	mg/Kg			07/26/17 09:00	1
n-Butylbenzene	ND		0.0050	0.0038	mg/Kg			07/26/17 09:00	1
N-Propylbenzene	ND		0.0050	0.0021	mg/Kg			07/26/17 09:00	1
sec-Butylbenzene	ND		0.0050	0.0024	mg/Kg			07/26/17 09:00	1
tert-Butylbenzene	ND		0.0050	0.0018	mg/Kg			07/26/17 09:00	1
Tetrachloroethene	ND		0.0050	0.0020	mg/Kg			07/26/17 09:00	1
Toluene	ND		0.0050	0.0017	mg/Kg			07/26/17 09:00	1
trans-1,2-Dichloroethene	ND		0.0050	0.0025	mg/Kg			07/26/17 09:00	1
1,1,1-Trichloroethane	ND		0.0050	0.0025	mg/Kg			07/26/17 09:00	1
Trichloroethene	ND		0.0050	0.0015	mg/Kg			07/26/17 09:00	1
1,2,4-Trimethylbenzene	ND		0.0050	0.0013	mg/Kg			07/26/17 09:00	1
1,3,5-Trimethylbenzene	ND		0.0050	0.0017	mg/Kg			07/26/17 09:00	1
Vinyl chloride	ND		0.0050	0.0037	mg/Kg			07/26/17 09:00	1
Xylenes, Total	ND		0.010	0.0043	mg/Kg			07/26/17 09:00	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*63 - 120*		*07/26/17 09:00*	*1*
Dibromofluoromethane (Surr)	*104*		*68 - 121*		*07/26/17 09:00*	*1*
1,2-Dichloroethane-d4 (Surr)	*107*		*52 - 124*		*07/26/17 09:00*	*1*
Toluene-d8 (Surr)	*104*		*72 - 127*		*07/26/17 09:00*	*1*

Lab Sample ID: LCS 180-218103/3
Matrix: Solid
Analysis Batch: 218103

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0400	0.0408		mg/Kg		102	20 - 150
Benzene	0.0400	0.0414		mg/Kg		103	77 - 120
2-Butanone (MEK)	0.0400	0.0400		mg/Kg		100	35 - 149
Carbon tetrachloride	0.0400	0.0451		mg/Kg		113	69 - 122
Chlorobenzene	0.0400	0.0411		mg/Kg		103	79 - 120
Chloroform	0.0400	0.0425		mg/Kg		106	72 - 120
cis-1,2-Dichloroethene	0.0400	0.0421		mg/Kg		105	80 - 118
1,2-Dichlorobenzene	0.0400	0.0420		mg/Kg		105	71 - 124
1,3-Dichlorobenzene	0.0400	0.0426		mg/Kg		106	75 - 118
1,4-Dichlorobenzene	0.0400	0.0423		mg/Kg		106	77 - 116
1,1-Dichloroethane	0.0400	0.0426		mg/Kg		106	66 - 124
1,2-Dichloroethane	0.0400	0.0413		mg/Kg		103	61 - 127
1,1-Dichloroethene	0.0400	0.0417		mg/Kg		104	59 - 129
Ethylbenzene	0.0400	0.0420		mg/Kg		105	78 - 125
Methylene Chloride	0.0400	0.0414		mg/Kg		104	58 - 127
Methyl tert-butyl ether	0.0400	0.0424		mg/Kg		106	48 - 132
n-Butylbenzene	0.0400	0.0455		mg/Kg		114	59 - 145
N-Propylbenzene	0.0400	0.0433		mg/Kg		108	80 - 120
sec-Butylbenzene	0.0400	0.0452		mg/Kg		113	70 - 130

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 180-218103/3
Matrix: Solid
Analysis Batch: 218103

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
tert-Butylbenzene	0.0400	0.0440		mg/Kg		110	74 - 133
Tetrachloroethene	0.0400	0.0424		mg/Kg		106	78 - 129
Toluene	0.0400	0.0419		mg/Kg		105	78 - 124
trans-1,2-Dichloroethene	0.0400	0.0427		mg/Kg		107	77 - 121
1,1,1-Trichloroethane	0.0400	0.0463		mg/Kg		116	67 - 126
Trichloroethene	0.0400	0.0414		mg/Kg		104	76 - 119
1,2,4-Trimethylbenzene	0.0400	0.0434		mg/Kg		108	80 - 121
1,3,5-Trimethylbenzene	0.0400	0.0437		mg/Kg		109	68 - 133
Vinyl chloride	0.0400	0.0421		mg/Kg		105	63 - 124
Xylenes, Total	0.0800	0.0843		mg/Kg		105	83 - 126

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*63 - 120*
Dibromofluoromethane (Surr)	*102*		*68 - 121*
1,2-Dichloroethane-d4 (Surr)	*100*		*52 - 124*
Toluene-d8 (Surr)	*100*		*72 - 127*

Lab Sample ID: MB 180-218225/7
Matrix: Solid
Analysis Batch: 218225

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.020	0.0032	mg/Kg			07/27/17 08:40	1
Benzene	ND		0.0050	0.0020	mg/Kg			07/27/17 08:40	1
2-Butanone (MEK)	ND		0.0050	0.0029	mg/Kg			07/27/17 08:40	1
Carbon tetrachloride	ND		0.0050	0.0033	mg/Kg			07/27/17 08:40	1
Chlorobenzene	ND		0.0050	0.0016	mg/Kg			07/27/17 08:40	1
Chloroform	ND		0.0050	0.0021	mg/Kg			07/27/17 08:40	1
cis-1,2-Dichloroethene	ND		0.0050	0.0016	mg/Kg			07/27/17 08:40	1
1,2-Dichlorobenzene	ND		0.0050	0.0040	mg/Kg			07/27/17 08:40	1
1,3-Dichlorobenzene	ND		0.0050	0.0016	mg/Kg			07/27/17 08:40	1
1,4-Dichlorobenzene	ND		0.0050	0.0010	mg/Kg			07/27/17 08:40	1
1,1-Dichloroethane	ND		0.0050	0.0018	mg/Kg			07/27/17 08:40	1
1,2-Dichloroethane	ND		0.0050	0.0015	mg/Kg			07/27/17 08:40	1
1,1-Dichloroethene	ND		0.0050	0.0029	mg/Kg			07/27/17 08:40	1
Ethylbenzene	ND		0.0050	0.0022	mg/Kg			07/27/17 08:40	1
Methylene Chloride	ND		0.0050	0.0024	mg/Kg			07/27/17 08:40	1
Methyl tert-butyl ether	ND		0.0050	0.0037	mg/Kg			07/27/17 08:40	1
n-Butylbenzene	ND		0.0050	0.0038	mg/Kg			07/27/17 08:40	1
N-Propylbenzene	ND		0.0050	0.0021	mg/Kg			07/27/17 08:40	1
sec-Butylbenzene	ND		0.0050	0.0024	mg/Kg			07/27/17 08:40	1
tert-Butylbenzene	ND		0.0050	0.0018	mg/Kg			07/27/17 08:40	1
Tetrachloroethene	ND		0.0050	0.0020	mg/Kg			07/27/17 08:40	1
Toluene	ND		0.0050	0.0017	mg/Kg			07/27/17 08:40	1
trans-1,2-Dichloroethene	ND		0.0050	0.0025	mg/Kg			07/27/17 08:40	1
1,1,1-Trichloroethane	ND		0.0050	0.0025	mg/Kg			07/27/17 08:40	1
Trichloroethene	ND		0.0050	0.0015	mg/Kg			07/27/17 08:40	1
1,2,4-Trimethylbenzene	ND		0.0050	0.0013	mg/Kg			07/27/17 08:40	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 180-218225/7
Matrix: Solid
Analysis Batch: 218225

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	ND		0.0050	0.0017	mg/Kg			07/27/17 08:40	1
Vinyl chloride	ND		0.0050	0.0037	mg/Kg			07/27/17 08:40	1
Xylenes, Total	ND		0.010	0.0043	mg/Kg			07/27/17 08:40	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*63 - 120*		*07/27/17 08:40*	*1*
Dibromofluoromethane (Surr)	*102*		*68 - 121*		*07/27/17 08:40*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*52 - 124*		*07/27/17 08:40*	*1*
Toluene-d8 (Surr)	*103*		*72 - 127*		*07/27/17 08:40*	*1*

Lab Sample ID: LCS 180-218225/3
Matrix: Solid
Analysis Batch: 218225

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0400	0.0431		mg/Kg		108	20 - 150
Benzene	0.0400	0.0402		mg/Kg		101	77 - 120
2-Butanone (MEK)	0.0400	0.0413		mg/Kg		103	35 - 149
Carbon tetrachloride	0.0400	0.0433		mg/Kg		108	69 - 122
Chlorobenzene	0.0400	0.0395		mg/Kg		99	79 - 120
Chloroform	0.0400	0.0421		mg/Kg		105	72 - 120
cis-1,2-Dichloroethene	0.0400	0.0414		mg/Kg		103	80 - 118
1,2-Dichlorobenzene	0.0400	0.0399		mg/Kg		100	71 - 124
1,3-Dichlorobenzene	0.0400	0.0403		mg/Kg		101	75 - 118
1,4-Dichlorobenzene	0.0400	0.0405		mg/Kg		101	77 - 116
1,1-Dichloroethane	0.0400	0.0420		mg/Kg		105	66 - 124
1,2-Dichloroethane	0.0400	0.0407		mg/Kg		102	61 - 127
1,1-Dichloroethene	0.0400	0.0425		mg/Kg		106	59 - 129
Ethylbenzene	0.0400	0.0400		mg/Kg		100	78 - 125
Methylene Chloride	0.0400	0.0417		mg/Kg		104	58 - 127
Methyl tert-butyl ether	0.0400	0.0425		mg/Kg		106	48 - 132
n-Butylbenzene	0.0400	0.0447		mg/Kg		112	59 - 145
N-Propylbenzene	0.0400	0.0419		mg/Kg		105	80 - 120
sec-Butylbenzene	0.0400	0.0436		mg/Kg		109	70 - 130
tert-Butylbenzene	0.0400	0.0424		mg/Kg		106	74 - 133
Tetrachloroethene	0.0400	0.0388		mg/Kg		97	78 - 129
Toluene	0.0400	0.0390		mg/Kg		98	78 - 124
trans-1,2-Dichloroethene	0.0400	0.0425		mg/Kg		106	77 - 121
1,1,1-Trichloroethane	0.0400	0.0441		mg/Kg		110	67 - 126
Trichloroethene	0.0400	0.0399		mg/Kg		100	76 - 119
1,2,4-Trimethylbenzene	0.0400	0.0423		mg/Kg		106	80 - 121
1,3,5-Trimethylbenzene	0.0400	0.0422		mg/Kg		106	68 - 133
Vinyl chloride	0.0400	0.0405		mg/Kg		101	63 - 124
Xylenes, Total	0.0800	0.0797		mg/Kg		100	83 - 126

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*63 - 120*

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 180-218225/3
Matrix: Solid
Analysis Batch: 218225

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Dibromofluoromethane (Surr)	*102*		*68 - 121*
1,2-Dichloroethane-d4 (Surr)	*102*		*52 - 124*
Toluene-d8 (Surr)	*99*		*72 - 127*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Lab Sample ID: MB 180-218278/1-A
Matrix: Solid
Analysis Batch: 218265

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 218278

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0067	0.0022	mg/Kg		07/27/17 11:20	07/27/17 17:17	1
Acenaphthylene	ND		0.0067	0.0023	mg/Kg		07/27/17 11:20	07/27/17 17:17	1
Anthracene	ND		0.0067	0.0025	mg/Kg		07/27/17 11:20	07/27/17 17:17	1
Benzo[a]anthracene	ND		0.0067	0.0026	mg/Kg		07/27/17 11:20	07/27/17 17:17	1
Benzo[a]pyrene	ND		0.0067	0.0028	mg/Kg		07/27/17 11:20	07/27/17 17:17	1
Benzo[b]fluoranthene	ND		0.0067	0.0029	mg/Kg		07/27/17 11:20	07/27/17 17:17	1
Benzo[g,h,i]perylene	ND		0.0067	0.0029	mg/Kg		07/27/17 11:20	07/27/17 17:17	1
Benzo[k]fluoranthene	ND		0.0067	0.0023	mg/Kg		07/27/17 11:20	07/27/17 17:17	1
Chrysene	ND		0.0067	0.0026	mg/Kg		07/27/17 11:20	07/27/17 17:17	1
Dibenz(a,h)anthracene	ND		0.0067	0.0028	mg/Kg		07/27/17 11:20	07/27/17 17:17	1
Dibenzofuran	ND		0.033	0.0027	mg/Kg		07/27/17 11:20	07/27/17 17:17	1
1,4-Dioxane	ND		0.067	0.0050	mg/Kg		07/27/17 11:20	07/27/17 17:17	1
Fluoranthene	ND		0.0067	0.0026	mg/Kg		07/27/17 11:20	07/27/17 17:17	1
Fluorene	ND		0.0067	0.0024	mg/Kg		07/27/17 11:20	07/27/17 17:17	1
Hexachlorobenzene	ND		0.0067	0.0027	mg/Kg		07/27/17 11:20	07/27/17 17:17	1
Indeno[1,2,3-cd]pyrene	ND		0.0067	0.0026	mg/Kg		07/27/17 11:20	07/27/17 17:17	1
2-Methylphenol	ND		0.033	0.0029	mg/Kg		07/27/17 11:20	07/27/17 17:17	1
Methylphenol, 3 & 4	ND		0.033	0.0030	mg/Kg		07/27/17 11:20	07/27/17 17:17	1
Naphthalene	ND		0.0067	0.0024	mg/Kg		07/27/17 11:20	07/27/17 17:17	1
Pentachlorophenol	ND		0.17	0.063	mg/Kg		07/27/17 11:20	07/27/17 17:17	1
Phenanthrene	ND		0.0067	0.0028	mg/Kg		07/27/17 11:20	07/27/17 17:17	1
Phenol	ND		0.033	0.0045	mg/Kg		07/27/17 11:20	07/27/17 17:17	1
Pyrene	ND		0.0067	0.0030	mg/Kg		07/27/17 11:20	07/27/17 17:17	1
Hexachloroethane	ND		33	2.4	ug/Kg		07/27/17 11:20	07/27/17 17:17	1
Nitrobenzene	ND		67	2.5	ug/Kg		07/27/17 11:20	07/27/17 17:17	1
Hexachlorobutadiene	ND		6.7	2.1	ug/Kg		07/27/17 11:20	07/27/17 17:17	1
2,4,5-Trichlorophenol	ND		33	3.2	ug/Kg		07/27/17 11:20	07/27/17 17:17	1
2,4,6-Trichlorophenol	ND		33	2.9	ug/Kg		07/27/17 11:20	07/27/17 17:17	1
2,4-Dinitrotoluene	ND		33	4.4	ug/Kg		07/27/17 11:20	07/27/17 17:17	1
Pyridine	ND		33	3.2	ug/Kg		07/27/17 11:20	07/27/17 17:17	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	*54*		*42 - 100*	*07/27/17 11:20*	*07/27/17 17:17*	*1*
2-Fluorophenol (Surr)	*57*		*21 - 107*	*07/27/17 11:20*	*07/27/17 17:17*	*1*
Nitrobenzene-d5 (Surr)	*50*		*35 - 109*	*07/27/17 11:20*	*07/27/17 17:17*	*1*
Phenol-d5 (Surr)	*53*		*29 - 105*	*07/27/17 11:20*	*07/27/17 17:17*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: MB 180-218278/1-A
Matrix: Solid
Analysis Batch: 218265

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 218278

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14 (Surr)	*54*		*36 - 113*	*07/27/17 11:20*	*07/27/17 17:17*	*1*
2,4,6-Tribromophenol (Surr)	*66*		*20 - 134*	*07/27/17 11:20*	*07/27/17 17:17*	*1*

Lab Sample ID: LCS 180-218278/2-A
Matrix: Solid
Analysis Batch: 218265

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 218278

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	0.667	0.341		mg/Kg		51	39 - 100
Acenaphthylene	0.667	0.351		mg/Kg		53	42 - 100
Anthracene	0.667	0.364		mg/Kg		55	43 - 100
Benzo[a]anthracene	0.667	0.369		mg/Kg		55	43 - 100
Benzo[a]pyrene	0.667	0.374		mg/Kg		56	43 - 100
Benzo[b]fluoranthene	0.667	0.350		mg/Kg		53	40 - 100
Benzo[g,h,i]perylene	0.667	0.422		mg/Kg		63	41 - 102
Benzo[k]fluoranthene	0.667	0.346		mg/Kg		52	44 - 100
Chrysene	0.667	0.390		mg/Kg		58	44 - 100
Dibenz(a,h)anthracene	0.667	0.414		mg/Kg		62	40 - 104
Dibenzofuran	0.667	0.380		mg/Kg		57	42 - 100
1,4-Dioxane	0.667	0.404		mg/Kg		61	19 - 107
Fluoranthene	0.667	0.404		mg/Kg		61	41 - 104
Fluorene	0.667	0.374		mg/Kg		56	41 - 100
Hexachlorobenzene	0.667	0.383		mg/Kg		57	43 - 100
Indeno[1,2,3-cd]pyrene	0.667	0.413		mg/Kg		62	41 - 104
2-Methylphenol	0.667	0.369		mg/Kg		55	38 - 100
Methylphenol, 3 & 4	0.667	0.373		mg/Kg		56	40 - 100
Naphthalene	0.667	0.351		mg/Kg		53	38 - 100
Pentachlorophenol	1.33	0.723		mg/Kg		54	34 - 102
Phenanthrene	0.667	0.355		mg/Kg		53	41 - 100
Phenol	0.667	0.357		mg/Kg		54	36 - 100
Pyrene	0.667	0.352		mg/Kg		53	42 - 100
Hexachloroethane	667	364		ug/Kg		55	35 - 100
Nitrobenzene	667	310		ug/Kg		47	34 - 100
Hexachlorobutadiene	667	425		ug/Kg		64	35 - 100
2,4,5-Trichlorophenol	667	387		ug/Kg		58	42 - 100
2,4,6-Trichlorophenol	667	380		ug/Kg		57	41 - 103
2,4-Dinitrotoluene	667	437		ug/Kg		66	42 - 110
Pyridine	1330	863		ug/Kg		65	25 - 119

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	*48*		*42 - 100*
2-Fluorophenol (Surr)	*58*		*21 - 107*
Nitrobenzene-d5 (Surr)	*45*		*35 - 109*
Phenol-d5 (Surr)	*54*		*29 - 105*
Terphenyl-d14 (Surr)	*54*		*36 - 113*
2,4,6-Tribromophenol (Surr)	*63*		*20 - 134*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 180-218112/1-C
Matrix: Solid
Analysis Batch: 218100

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 218112

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.017	0.0088	mg/Kg		07/26/17 06:50	07/26/17 22:20	1
PCB-1221	ND		0.017	0.0086	mg/Kg		07/26/17 06:50	07/26/17 22:20	1
PCB-1232	ND		0.017	0.0066	mg/Kg		07/26/17 06:50	07/26/17 22:20	1
PCB-1242	ND		0.017	0.013	mg/Kg		07/26/17 06:50	07/26/17 22:20	1
PCB-1248	ND		0.017	0.0080	mg/Kg		07/26/17 06:50	07/26/17 22:20	1
PCB-1254	ND		0.017	0.0073	mg/Kg		07/26/17 06:50	07/26/17 22:20	1
PCB-1260	ND		0.017	0.011	mg/Kg		07/26/17 06:50	07/26/17 22:20	1
PCB-1262	ND		0.017	0.012	mg/Kg		07/26/17 06:50	07/26/17 22:20	1
PCB-1268	ND		0.017	0.0051	mg/Kg		07/26/17 06:50	07/26/17 22:20	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*75*		*23 - 150*	*07/26/17 06:50*	*07/26/17 22:20*	*1*
DCB Decachlorobiphenyl (Surr)	*80*		*23 - 150*	*07/26/17 06:50*	*07/26/17 22:20*	*1*
Tetrachloro-m-xylene (Surr)	*77*		*27 - 138*	*07/26/17 06:50*	*07/26/17 22:20*	*1*
Tetrachloro-m-xylene (Surr)	*80*		*27 - 138*	*07/26/17 06:50*	*07/26/17 22:20*	*1*

Lab Sample ID: LCS 180-218112/2-C
Matrix: Solid
Analysis Batch: 218100

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 218112

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			1.33	1.07		mg/Kg		81	52 - 126		
PCB-1260			1.33	1.03		mg/Kg		77	50 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*77*		*23 - 150*
DCB Decachlorobiphenyl (Surr)	*82*		*23 - 150*
Tetrachloro-m-xylene (Surr)	*78*		*27 - 138*
Tetrachloro-m-xylene (Surr)	*82*		*27 - 138*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 180-218293/1-A
Matrix: Solid
Analysis Batch: 218421

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 218293

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		1.0	0.44	mg/Kg		07/27/17 12:44	07/28/17 08:35	1
Barium	ND		20	5.4	mg/Kg		07/27/17 12:44	07/28/17 08:35	1
Beryllium	ND		0.40	0.10	mg/Kg		07/27/17 12:44	07/28/17 08:35	1
Cadmium	ND		0.50	0.11	mg/Kg		07/27/17 12:44	07/28/17 08:35	1
Chromium	ND		0.50	0.13	mg/Kg		07/27/17 12:44	07/28/17 08:35	1
Copper	ND		2.5	0.77	mg/Kg		07/27/17 12:44	07/28/17 08:35	1
Lead	ND		1.0	0.33	mg/Kg		07/27/17 12:44	07/28/17 08:35	1
Manganese	ND		1.5	0.41	mg/Kg		07/27/17 12:44	07/28/17 08:35	1
Nickel	ND		4.0	0.90	mg/Kg		07/27/17 12:44	07/28/17 08:35	1
Selenium	ND		1.0	0.40	mg/Kg		07/27/17 12:44	07/28/17 08:35	1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: MB 180-218293/1-A
Matrix: Solid
Analysis Batch: 218421

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 218293

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.50	0.17	mg/Kg		07/27/17 12:44	07/28/17 08:35	1
Zinc	ND		2.0	1.0	mg/Kg		07/27/17 12:44	07/28/17 08:35	1

Lab Sample ID: LCS 180-218293/2-A
Matrix: Solid
Analysis Batch: 218421

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 218293

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	50.0	51.2		mg/Kg		102	80 - 120
Barium	200	202		mg/Kg		101	80 - 120
Beryllium	5.00	5.06		mg/Kg		101	80 - 120
Cadmium	5.00	5.12		mg/Kg		102	80 - 120
Chromium	20.0	19.2		mg/Kg		96	80 - 120
Copper	25.0	24.7		mg/Kg		99	80 - 120
Lead	50.0	48.3		mg/Kg		97	80 - 120
Manganese	50.0	49.9		mg/Kg		100	80 - 120
Nickel	50.0	50.7		mg/Kg		101	80 - 120
Selenium	50.0	49.9		mg/Kg		100	80 - 120
Silver	5.00	4.95		mg/Kg		99	80 - 120
Zinc	50.0	49.5		mg/Kg		99	80 - 120

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 180-218097/1-A
Matrix: Solid
Analysis Batch: 218142

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 218097

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.033	0.0074	mg/Kg		07/26/17 05:04	07/26/17 09:09	1

Lab Sample ID: LCS 180-218097/2-A
Matrix: Solid
Analysis Batch: 218142

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 218097

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.417	0.469		mg/Kg		112	80 - 120

Lab Sample ID: LCSD 180-218097/3-A
Matrix: Solid
Analysis Batch: 218142

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 218097

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.417	0.444		mg/Kg		107	80 - 120	5	20

Method: 2540G - SM 2540G

Lab Sample ID: 180-68509-3 DU
Matrix: Solid
Analysis Batch: 218069

Client Sample ID: WB 7-8, S1, C 072417
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	26.7		22.7		%		16	20
Percent Solids	73.3		77.3		%		5	20

Lab Sample ID: 180-68509-9 DU
Matrix: Solid
Analysis Batch: 218069

Client Sample ID: WB 7-8, S3, C 072417
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	22.3		26.7		%		18	20
Percent Solids	77.7		73.3		%		6	20

Method: 9014 - Cyanide

Lab Sample ID: MB 180-218282/4-A
Matrix: Solid
Analysis Batch: 218335

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 218282

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.50	0.15	mg/Kg		07/27/17 11:19	07/27/17 14:28	1

Lab Sample ID: HLCS 180-218282/2-A
Matrix: Solid
Analysis Batch: 218335

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 218282

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.250	0.236		mg/Kg		94	90 - 110

Lab Sample ID: LCS 180-218282/3-A
Matrix: Solid
Analysis Batch: 218335

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 218282

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	163	117		mg/Kg		72	38 - 162

Lab Sample ID: LLCS 180-218282/1-A
Matrix: Solid
Analysis Batch: 218335

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 218282

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.0500	0.0497		mg/Kg		99	90 - 110

GC/MS VOA

Analysis Batch: 218093

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68509-22	TRIP BLANK	Total/NA	Water	8260C	
MB 180-218093/6	Method Blank	Total/NA	Water	8260C	
LCS 180-218093/3	Lab Control Sample	Total/NA	Water	8260C	

Analysis Batch: 218103

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68509-1	WB 7-8, S1, A 072417	Total/NA	Solid	8260C	218110
180-68509-2	WB 7-8, S1, B 072417	Total/NA	Solid	8260C	218110
180-68509-4	WB 7-8, S2, A 072417	Total/NA	Solid	8260C	218110
MB 180-218103/7	Method Blank	Total/NA	Solid	8260C	
LCS 180-218103/3	Lab Control Sample	Total/NA	Solid	8260C	

Prep Batch: 218110

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68509-1	WB 7-8, S1, A 072417	Total/NA	Solid	5035	
180-68509-2	WB 7-8, S1, B 072417	Total/NA	Solid	5035	
180-68509-4	WB 7-8, S2, A 072417	Total/NA	Solid	5035	

Analysis Batch: 218225

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68509-5	WB 7-8, S2, B 072417	Total/NA	Solid	8260C	218236
180-68509-7	WB 7-8, S3, A 072417	Total/NA	Solid	8260C	218236
180-68509-8	WB 7-8, S3, B 072417	Total/NA	Solid	8260C	218236
180-68509-10	WB 7-8, S4, A 072417	Total/NA	Solid	8260C	218236
180-68509-11	WB 7-8, S4, B 072417	Total/NA	Solid	8260C	218236
180-68509-13	W9, S1, A 072417	Total/NA	Solid	8260C	218236
180-68509-14	W9, S1, B 072417	Total/NA	Solid	8260C	218236
180-68509-23	DUP 15	Total/NA	Solid	8260C	218236
MB 180-218225/7	Method Blank	Total/NA	Solid	8260C	
LCS 180-218225/3	Lab Control Sample	Total/NA	Solid	8260C	

Prep Batch: 218236

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68509-5	WB 7-8, S2, B 072417	Total/NA	Solid	5035	
180-68509-7	WB 7-8, S3, A 072417	Total/NA	Solid	5035	
180-68509-8	WB 7-8, S3, B 072417	Total/NA	Solid	5035	
180-68509-10	WB 7-8, S4, A 072417	Total/NA	Solid	5035	
180-68509-11	WB 7-8, S4, B 072417	Total/NA	Solid	5035	
180-68509-13	W9, S1, A 072417	Total/NA	Solid	5035	
180-68509-14	W9, S1, B 072417	Total/NA	Solid	5035	
180-68509-23	DUP 15	Total/NA	Solid	5035	

GC/MS Semi VOA

Analysis Batch: 218265

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68509-3	WB 7-8, S1, C 072417	Total/NA	Solid	8270D LL	218278
180-68509-6	WB 7-8, S2, C 072417	Total/NA	Solid	8270D LL	218278
180-68509-9	WB 7-8, S3, C 072417	Total/NA	Solid	8270D LL	218278
180-68509-12	WB 7-8, S4, C 072417	Total/NA	Solid	8270D LL	218278

GC/MS Semi VOA (Continued)

Analysis Batch: 218265 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68509-15	W9, S1, C 072417	Total/NA	Solid	8270D LL	218278
180-68509-24	DUP 14	Total/NA	Solid	8270D LL	218278
MB 180-218278/1-A	Method Blank	Total/NA	Solid	8270D LL	218278
LCS 180-218278/2-A	Lab Control Sample	Total/NA	Solid	8270D LL	218278

Prep Batch: 218278

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68509-3	WB 7-8, S1, C 072417	Total/NA	Solid	3541	
180-68509-6	WB 7-8, S2, C 072417	Total/NA	Solid	3541	
180-68509-9	WB 7-8, S3, C 072417	Total/NA	Solid	3541	
180-68509-12	WB 7-8, S4, C 072417	Total/NA	Solid	3541	
180-68509-15	W9, S1, C 072417	Total/NA	Solid	3541	
180-68509-24	DUP 14	Total/NA	Solid	3541	
MB 180-218278/1-A	Method Blank	Total/NA	Solid	3541	
LCS 180-218278/2-A	Lab Control Sample	Total/NA	Solid	3541	

GC Semi VOA

Analysis Batch: 218100

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68509-3	WB 7-8, S1, C 072417	Total/NA	Solid	8082A	218178
180-68509-6	WB 7-8, S2, C 072417	Total/NA	Solid	8082A	218178
180-68509-9	WB 7-8, S3, C 072417	Total/NA	Solid	8082A	218178
180-68509-12	WB 7-8, S4, C 072417	Total/NA	Solid	8082A	218178
180-68509-15	W9, S1, C 072417	Total/NA	Solid	8082A	218178
180-68509-24	DUP 14	Total/NA	Solid	8082A	218178
MB 180-218112/1-C	Method Blank	Total/NA	Solid	8082A	218178
LCS 180-218112/2-C	Lab Control Sample	Total/NA	Solid	8082A	218178

Prep Batch: 218112

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68509-3	WB 7-8, S1, C 072417	Total/NA	Solid	3541	
180-68509-6	WB 7-8, S2, C 072417	Total/NA	Solid	3541	
180-68509-9	WB 7-8, S3, C 072417	Total/NA	Solid	3541	
180-68509-12	WB 7-8, S4, C 072417	Total/NA	Solid	3541	
180-68509-15	W9, S1, C 072417	Total/NA	Solid	3541	
180-68509-24	DUP 14	Total/NA	Solid	3541	
MB 180-218112/1-C	Method Blank	Total/NA	Solid	3541	
LCS 180-218112/2-C	Lab Control Sample	Total/NA	Solid	3541	

Cleanup Batch: 218177

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68509-3	WB 7-8, S1, C 072417	Total/NA	Solid	3665A	218112
180-68509-6	WB 7-8, S2, C 072417	Total/NA	Solid	3665A	218112
180-68509-9	WB 7-8, S3, C 072417	Total/NA	Solid	3665A	218112
180-68509-12	WB 7-8, S4, C 072417	Total/NA	Solid	3665A	218112
180-68509-15	W9, S1, C 072417	Total/NA	Solid	3665A	218112
180-68509-24	DUP 14	Total/NA	Solid	3665A	218112
MB 180-218112/1-C	Method Blank	Total/NA	Solid	3665A	218112
LCS 180-218112/2-C	Lab Control Sample	Total/NA	Solid	3665A	218112

GC Semi VOA (Continued)

Cleanup Batch: 218178

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68509-3	WB 7-8, S1, C 072417	Total/NA	Solid	3660B	218177
180-68509-6	WB 7-8, S2, C 072417	Total/NA	Solid	3660B	218177
180-68509-9	WB 7-8, S3, C 072417	Total/NA	Solid	3660B	218177
180-68509-12	WB 7-8, S4, C 072417	Total/NA	Solid	3660B	218177
180-68509-15	W9, S1, C 072417	Total/NA	Solid	3660B	218177
180-68509-24	DUP 14	Total/NA	Solid	3660B	218177
MB 180-218112/1-C	Method Blank	Total/NA	Solid	3660B	218177
LCS 180-218112/2-C	Lab Control Sample	Total/NA	Solid	3660B	218177

Metals

Prep Batch: 218097

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68509-3	WB 7-8, S1, C 072417	Total/NA	Solid	7471B	
180-68509-6	WB 7-8, S2, C 072417	Total/NA	Solid	7471B	
180-68509-9	WB 7-8, S3, C 072417	Total/NA	Solid	7471B	
180-68509-12	WB 7-8, S4, C 072417	Total/NA	Solid	7471B	
180-68509-15	W9, S1, C 072417	Total/NA	Solid	7471B	
180-68509-24	DUP 14	Total/NA	Solid	7471B	
MB 180-218097/1-A	Method Blank	Total/NA	Solid	7471B	
LCS 180-218097/2-A	Lab Control Sample	Total/NA	Solid	7471B	
LCSD 180-218097/3-A	Lab Control Sample Dup	Total/NA	Solid	7471B	

Analysis Batch: 218142

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68509-3	WB 7-8, S1, C 072417	Total/NA	Solid	7471B	218097
180-68509-6	WB 7-8, S2, C 072417	Total/NA	Solid	7471B	218097
180-68509-9	WB 7-8, S3, C 072417	Total/NA	Solid	7471B	218097
180-68509-12	WB 7-8, S4, C 072417	Total/NA	Solid	7471B	218097
180-68509-15	W9, S1, C 072417	Total/NA	Solid	7471B	218097
180-68509-24	DUP 14	Total/NA	Solid	7471B	218097
MB 180-218097/1-A	Method Blank	Total/NA	Solid	7471B	218097
LCS 180-218097/2-A	Lab Control Sample	Total/NA	Solid	7471B	218097
LCSD 180-218097/3-A	Lab Control Sample Dup	Total/NA	Solid	7471B	218097

Prep Batch: 218293

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68509-3	WB 7-8, S1, C 072417	Total/NA	Solid	3050B	
180-68509-6	WB 7-8, S2, C 072417	Total/NA	Solid	3050B	
180-68509-9	WB 7-8, S3, C 072417	Total/NA	Solid	3050B	
180-68509-12	WB 7-8, S4, C 072417	Total/NA	Solid	3050B	
180-68509-15	W9, S1, C 072417	Total/NA	Solid	3050B	
180-68509-24	DUP 14	Total/NA	Solid	3050B	
MB 180-218293/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 180-218293/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Analysis Batch: 218421

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68509-3	WB 7-8, S1, C 072417	Total/NA	Solid	6010C	218293
180-68509-6	WB 7-8, S2, C 072417	Total/NA	Solid	6010C	218293

Metals (Continued)

Analysis Batch: 218421 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68509-9	WB 7-8, S3, C 072417	Total/NA	Solid	6010C	218293
180-68509-12	WB 7-8, S4, C 072417	Total/NA	Solid	6010C	218293
180-68509-15	W9, S1, C 072417	Total/NA	Solid	6010C	218293
180-68509-24	DUP 14	Total/NA	Solid	6010C	218293
MB 180-218293/1-A	Method Blank	Total/NA	Solid	6010C	218293
LCS 180-218293/2-A	Lab Control Sample	Total/NA	Solid	6010C	218293

General Chemistry

Analysis Batch: 218069

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68509-1	WB 7-8, S1, A 072417	Total/NA	Solid	2540G	
180-68509-2	WB 7-8, S1, B 072417	Total/NA	Solid	2540G	
180-68509-3	WB 7-8, S1, C 072417	Total/NA	Solid	2540G	
180-68509-4	WB 7-8, S2, A 072417	Total/NA	Solid	2540G	
180-68509-5	WB 7-8, S2, B 072417	Total/NA	Solid	2540G	
180-68509-6	WB 7-8, S2, C 072417	Total/NA	Solid	2540G	
180-68509-7	WB 7-8, S3, A 072417	Total/NA	Solid	2540G	
180-68509-8	WB 7-8, S3, B 072417	Total/NA	Solid	2540G	
180-68509-9	WB 7-8, S3, C 072417	Total/NA	Solid	2540G	
180-68509-10	WB 7-8, S4, A 072417	Total/NA	Solid	2540G	
180-68509-11	WB 7-8, S4, B 072417	Total/NA	Solid	2540G	
180-68509-12	WB 7-8, S4, C 072417	Total/NA	Solid	2540G	
180-68509-13	W9, S1, A 072417	Total/NA	Solid	2540G	
180-68509-14	W9, S1, B 072417	Total/NA	Solid	2540G	
180-68509-15	W9, S1, C 072417	Total/NA	Solid	2540G	
180-68509-23	DUP 15	Total/NA	Solid	2540G	
180-68509-24	DUP 14	Total/NA	Solid	2540G	
180-68509-3 DU	WB 7-8, S1, C 072417	Total/NA	Solid	2540G	
180-68509-9 DU	WB 7-8, S3, C 072417	Total/NA	Solid	2540G	

Prep Batch: 218282

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68509-3	WB 7-8, S1, C 072417	Total/NA	Solid	9010C	
180-68509-6	WB 7-8, S2, C 072417	Total/NA	Solid	9010C	
180-68509-9	WB 7-8, S3, C 072417	Total/NA	Solid	9010C	
180-68509-12	WB 7-8, S4, C 072417	Total/NA	Solid	9010C	
180-68509-15	W9, S1, C 072417	Total/NA	Solid	9010C	
180-68509-24	DUP 14	Total/NA	Solid	9010C	
MB 180-218282/4-A	Method Blank	Total/NA	Solid	9010C	
HLCS 180-218282/2-A	Lab Control Sample	Total/NA	Solid	9010C	
LCS 180-218282/3-A	Lab Control Sample	Total/NA	Solid	9010C	
LLCS 180-218282/1-A	Lab Control Sample	Total/NA	Solid	9010C	

Analysis Batch: 218335

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68509-3	WB 7-8, S1, C 072417	Total/NA	Solid	9014	218282
180-68509-6	WB 7-8, S2, C 072417	Total/NA	Solid	9014	218282
180-68509-9	WB 7-8, S3, C 072417	Total/NA	Solid	9014	218282
180-68509-12	WB 7-8, S4, C 072417	Total/NA	Solid	9014	218282

General Chemistry (Continued)

Analysis Batch: 218335 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68509-15	W9, S1, C 072417	Total/NA	Solid	9014	218282
180-68509-24	DUP 14	Total/NA	Solid	9014	218282
MB 180-218282/4-A	Method Blank	Total/NA	Solid	9014	218282
HLCS 180-218282/2-A	Lab Control Sample	Total/NA	Solid	9014	218282
LCS 180-218282/3-A	Lab Control Sample	Total/NA	Solid	9014	218282
LLCS 180-218282/1-A	Lab Control Sample	Total/NA	Solid	9014	218282

TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
phone 412.963.7058 fax 412.963.2468

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☑ Other:

Client Contact	Project Manager: Aron Krasnopoler	Site Contact: Ashwin Ranna/Ellen Buelow	Date: 7-24-2017	COC No:
Geosyntec Consultants	Tel/Fax: 401-381-4333	Lab Contact: Dave Dunlap	Carrier: FedEx	1 of 3 COCs
10211 Wincopin Circle, 4th Floor	Analysis Turnaround Time			Sampler: Ellen Buelow
Columbia, MD 21044	☐ CALENDAR DAYS ☑ WORKING DAYS			For Lab Use Only:
410-381-4333 Phone	TAT if different from Below _____			Walk-in Client:
410-381-4499 FAX	☐ 2 weeks			Lab Sampling:
Project Name: Former Sperry Remington Site - North	☐ 1 week			Job / SDG No.:
Site: Elmira	☐ 2 days			
P O # MN0832B	☑ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	8260C - VOA- Select List	6010C, 7471B, 9014	8082A, 8270D_LL	8260C_LL-VOA-Select List	8260C Select List	Sample Specific Notes:
WB78,S1,A 72417	7-24-17	10:05	G	S	4	N	N	X					Rush
WB7-8,S1,B 72417	7-24-17	10:10	G	S	4	N	N	X					
WB7-8,S1,C 72417	7-24-17	10:20	C	S	2	N	N		X	X			
WB7-8,S2,A 72417	7-24-17	10:45	G	S	4	N	N	X					
WB7-8,S2,B 072417	7-24-17	10:50	G	S	4	N	N	X					
WB7-8,S2,C 72417	7-24-17	10:55	C	S	2	N	N		X	X			
WB7-8,S3,A 72417	72417	11:10	G	S	4	N	N	X					
WB7-8,S3,B 72417	72417	11:20	G	S	4	N	N	X					
WB7-8 S3, C 72417	72417	11:30	C	S	2	N	N		X	X			
WB7-8-S4,A 72417	72417	12:05	G	S	4	N	N	X					
WB7-8-S4,B 72417	72417	12:10	G	S	4	N	N	X					
WB7-8 S4,C 72417	72417	12:15	C	S	2	N	N		X	X			
								1					

180-68509 Chain of Custody

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd: _____ Corr'd: _____ | Therm ID No.: _____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Ashwin Ranna	Geosyntec	7-24-2017 1615	[signature]	TMHT	7/25/17 0915
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Form No. CA-C-WI-002, Rev. 4.3, dated 12/05/20*

TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
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Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☑ Other:

Client Contact	Project Manager: Aron Krasnopoler	Site Contact: Ashwin Ranna/Ellen Buelow	Date:	COC No:
Geosyntec Consultants	Tel/Fax: 401-381-4333	Lab Contact: Dave Dunlap	Carrier: FedEx	2 of 3 COCs
10211 Wincopin Circle, 4th Floor	Analysis Turnaround Time			Sampler:
Columbia, MD 21044	☐ CALENDAR DAYS ☑ WORKING DAYS			For Lab Use Only:
410-381-4333 Phone	TAT if different from Below _____			Walk-in Client:
410-381-4499 FAX	☐ 2 weeks			Lab Sampling:
Project Name: Former Sperry Remington Site - North	☐ 1 week			Job / SDG No.:
Site: Elmira	☐ 2 days			
P O # MN0832B	☑ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	PCBs - 8082A	VOCs - 8260C select list	TCLP - Lead	6010C, 7471B, 2014	8082A 8270D SL	TCLP RCRA METALS	RCRA TCLP SemiVOA	TCLP VOC	8260C WorkType No.	Sample Specific Notes:
W9,S1,A 072417 (FB)	~~7.24.17~~ 13:10	13:10	G	S	4	N	N		X								
W9,S1,B 072417 (EB)	~~7.24.17~~ 13:15	13:15	G	S	4	N	N		X								
W9,S1,C 072417 (EB)	~~7.24.17~~ 13:20	13:20	C	S	2	N	N				X	X					
W9,S2,C 072417	~~07.24.17~~	14:15	C	S	3	N	N	X					X	X			
W9,S3,C 072417	07.24.17	14:35	C	S	3	N	N	X					X	X			
W9,S4,C 072417	07.24.17	14:40	C	S	3	N	N	X					X	X			
W9,S2,A 072417	072417	15:45	G	S	2	N	N								X		
W9,S3,A 072417	072417	15:50	G	S	2	N	N								X		
W9,S4,A 072417	072417	15:55	G	S	2	N	N								X		
(Trip blank)	—	—	—	W	2	N	N									X	
~~DUP-5~~ EKB	~~072417~~	—	~~G~~	~~S~~	~~4~~												
~~DUP-14~~ EKB	~~07.24.17~~	—	~~G~~	~~S~~	~~2~~												
								1									

PCB's to be analyzed as discussed with Ellen Buelow 7/28/17

Rush

Preservation Used: 1= Ice, 2= HCl; 3= H_2SO_4; 4=HNO_3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd: _____ Corr'd: _____ Therm ID No.: _____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Ashwin Ranna	Geosyntec	7.24.17 1545		TA Pitt	7/25/17 0915
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Form No. CA-C-WI-002, Rev. 4.3, dated 12/05/2013

TestAmerica Pittsburgh
301 Alpha Drive RIDC Park
Pittsburgh, PA 15238
Phone (412) 963-7058 Fax (412) 963-2468

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Ellen Buelow	Lab PM: Dunlap, David A	Carrier Tracking No(s):	COC No: 180-38494-8381.1
Client Contact: Ashwin Ranna; Aron Krasnopoler	Phone: 412-552-4758	E-Mail: david.dunlap@testamericainc.com		Page: Page 3 of 3
Company: Geosyntec Consultants, Inc.				Job #:
Address: Penn Center West One, Suite 402 1 Penn Center West Drive	Due Date Requested:			
City: Pittsburgh	TAT Requested (days):			
State, Zip: PA, 15276				
Phone:	PO #: MN0832B			
Email: aranna@geosyntec.com; Akrasnopoler@geosyntec.com	WO #:			
Project Name: Former Sperry Remington Site - North IRM	Project #: 18013464			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - VOA-Select List	6010C, 7471B, 9014 - Select ICP Metals, Mercury, Cyanide	8082A, 8270D, PCBs, Select BNA	8260C - VOA-Select List (Trip Blanks only)	TCLP Semivolatiles, TCLP metals, PCBs										Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	A												
DUP 15	07-24-17	—	FG	Solid	N	N	X															Results
DUP 14	07-2417	—	FC	Solid	N	N		X	X													
DUP 16	07 2417	—	FG	Solid	N	N	X				XX											
				Solid																		
				Solid																		
				Solid																		
				Solid																		
				Solid																		
				Solid																		
				Solid																		
				Solid																		
				Solid																		

Changes as discussed with Ellen Buelow 7/25/17

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Ashwin Ranna	7-24-2017 / 1845	Geosyntec		7/25/17 0915	TA Pgh
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

7/28/2017

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 180-68509-1

Login Number: 68509
List Number: 1
Creator: Neri, Tom

List Source: TestAmerica Pittsburgh

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

TestAmerica Job ID: 180-68556-1
Client Project/Site: Former Sperry Remington Site - North IRM

For:
Geosyntec Consultants, Inc.
10211 Wincopin Circle
4'th Floor
Columbia, Maryland 21044

Attn: Mr. Aron Krasnopoler

Authorized for release by:
7/31/2017 6:55:32 PM

David Dunlap, Senior Project Manager
(412)963-2432
david.dunlap@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68556-1

Job ID: 180-68556-1

Laboratory: TestAmerica Pittsburgh

Narrative

Job Narrative
180-68556-1

Receipt
The samples were received on 7/26/2017 7:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.7º C.

GC/MS VOA
Method(s) 8260C: The matrix spike/matrix spike duplicate (MS/MSD) of sample WB7-8, S5, A 72517 (180-68556-1) had several recoveries slightly above the control limits. The recoveries of the laboratory control sample (LCS) were within the control limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method(s) 8270D LL: The matrix spike (MS) of sample WB7-8, S5, C 72517 (180-68556-3) had several recoveries slightly below the control limits. The RPD between the spikes was above the control limits for all analytes. The recoveries of the matrix spike duplicate (MSD) and laboratory control sample were within the control limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals
Method(s) 7471B: The matrix spike duplicate (MSD) of sample WB7-8, S5, C 72517 (180-68556-3) was above the control limits for mercury. The recoveries of the matrix spike (MS) and laboratory control sample were within the control limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.

GC/MS Semi VOA

Qualifier	Qualifier Description
F2	MS/MSD RPD exceeds control limits
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance limits.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

General Chemistry

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc. TestAmerica Job ID: 180-68556-1
Project/Site: Former Sperry Remington Site - North IRM

Laboratory: TestAmerica Pittsburgh

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	11182	03-31-18

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
2540G		Solid	Percent Moisture
2540G		Solid	Percent Solids
8270D LL	3541	Solid	1,4-Dioxane

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68556-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-68556-1	WB7-8, S5, A 72517	Solid	07/25/17 11:35	07/26/17 07:30
180-68556-2	WB7-8, S5, B 72517	Solid	07/25/17 11:50	07/26/17 07:30
180-68556-3	WB7-8, S5, C 72517	Solid	07/25/17 11:55	07/26/17 07:30
180-68556-4	WB6-7, S1, A 72517	Solid	07/25/17 15:10	07/26/17 07:30
180-68556-5	WB6-7, S1, B 72517	Solid	07/25/17 15:20	07/26/17 07:30
180-68556-6	WB6-7, S1, C 72517	Solid	07/25/17 15:25	07/26/17 07:30
180-68556-7	WB6-7, S2, A 72517	Solid	07/25/17 16:35	07/26/17 07:30
180-68556-8	WB6-7, S2, B 72517	Solid	07/25/17 16:25	07/26/17 07:30
180-68556-9	WB6-7, S2, C 72517	Solid	07/25/17 16:40	07/26/17 07:30
180-68556-10	DUP 17 72517	Solid	07/25/17 00:00	07/26/17 07:30
180-68556-11	TRIP BLANK	Water	07/25/17 00:00	07/26/17 07:30

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68556-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL PIT
8260C	Volatile Organic Compounds (GC/MS)	SW846	TAL PIT
8270D LL	Semivolatile Organic Compounds by GC/MS - Low Level	SW846	TAL PIT
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL PIT
6010C	Metals (ICP)	SW846	TAL PIT
7471B	Mercury (CVAA)	SW846	TAL PIT
2540G	SM 2540G	SM22	TAL PIT
9014	Cyanide	SW846	TAL PIT

Protocol References:

SM22 = SM22

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68556-1

Client Sample ID: WB7-8, S5, A 72517
Date Collected: 07/25/17 11:35
Date Received: 07/26/17 07:30

Lab Sample ID: 180-68556-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218185	07/26/17 15:12	JJZ	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: WB7-8, S5, A 72517
Date Collected: 07/25/17 11:35
Date Received: 07/26/17 07:30

Lab Sample ID: 180-68556-1
Matrix: Solid
Percent Solids: 82.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.132 g	5 mL	218236	07/27/17 05:30	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	218225	07/27/17 09:03	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: WB7-8, S5, B 72517
Date Collected: 07/25/17 11:50
Date Received: 07/26/17 07:30

Lab Sample ID: 180-68556-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218185	07/26/17 15:12	JJZ	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: WB7-8, S5, B 72517
Date Collected: 07/25/17 11:50
Date Received: 07/26/17 07:30

Lab Sample ID: 180-68556-2
Matrix: Solid
Percent Solids: 84.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.9514 g	5 mL	218236	07/27/17 05:30	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	218225	07/27/17 09:25	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: WB7-8, S5, C 72517
Date Collected: 07/25/17 11:55
Date Received: 07/26/17 07:30

Lab Sample ID: 180-68556-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218185	07/26/17 15:12	JJZ	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: WB7-8, S5, C 72517
Date Collected: 07/25/17 11:55
Date Received: 07/26/17 07:30

Lab Sample ID: 180-68556-3
Matrix: Solid
Percent Solids: 75.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	0.5 mL	218278	07/27/17 11:20	MAL	TAL PIT

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68556-1

Client Sample ID: WB7-8, S5, C 72517
Date Collected: 07/25/17 11:55
Date Received: 07/26/17 07:30

Lab Sample ID: 180-68556-3
Matrix: Solid
Percent Solids: 75.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8270D LL		1	1 mL	1 mL	218265	07/27/17 18:11	VVP	TAL PIT
	Instrument ID: CH732									
Total/NA	Prep	3541			15.0 g	20.0 mL	218279	07/27/17 11:28	MAL	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	218348	07/28/17 05:08	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	218349	07/28/17 05:09	JMO	TAL PIT
Total/NA	Analysis	8082A		1			218352	07/28/17 08:06	JMO	TAL PIT
	Instrument ID: CHGC16									
Total/NA	Prep	3050B			0.96 g	100 mL	218293	07/27/17 12:44	CRM	TAL PIT
Total/NA	Analysis	6010C		1			218421	07/28/17 09:16	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.57 g	100 mL	218383	07/31/17 08:10	RJR	TAL PIT
Total/NA	Analysis	7471B		1			218639	07/31/17 11:42	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.02 g	50 mL	218282	07/27/17 11:19	JAS	TAL PIT
Total/NA	Analysis	9014		1			218335	07/27/17 14:59	JAS	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: WB6-7, S1, A 72517
Date Collected: 07/25/17 15:10
Date Received: 07/26/17 07:30

Lab Sample ID: 180-68556-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218185	07/26/17 15:12	JJZ	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: WB6-7, S1, A 72517
Date Collected: 07/25/17 15:10
Date Received: 07/26/17 07:30

Lab Sample ID: 180-68556-4
Matrix: Solid
Percent Solids: 77.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.9238 g	5 mL	218236	07/27/17 05:30	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	218225	07/27/17 09:48	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: WB6-7, S1, B 72517
Date Collected: 07/25/17 15:20
Date Received: 07/26/17 07:30

Lab Sample ID: 180-68556-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218185	07/26/17 15:12	JJZ	TAL PIT
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68556-1

Client Sample ID: WB6-7, S1, B 72517
Date Collected: 07/25/17 15:20
Date Received: 07/26/17 07:30

Lab Sample ID: 180-68556-5
Matrix: Solid
Percent Solids: 77.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.5191 g	5 mL	218236	07/27/17 05:30	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	218225	07/27/17 10:10	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: WB6-7, S1, C 72517
Date Collected: 07/25/17 15:25
Date Received: 07/26/17 07:30

Lab Sample ID: 180-68556-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218185	07/26/17 15:12	JJZ	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: WB6-7, S1, C 72517
Date Collected: 07/25/17 15:25
Date Received: 07/26/17 07:30

Lab Sample ID: 180-68556-6
Matrix: Solid
Percent Solids: 77.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	0.5 mL	218278	07/27/17 11:20	MAL	TAL PIT
Total/NA	Analysis	8270D LL		1	1 mL	1 mL	218265	07/27/17 19:32	VVP	TAL PIT
	Instrument ID: CH732									
Total/NA	Prep	3541			15.0 g	20.0 mL	218279	07/27/17 11:28	MAL	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	218348	07/28/17 05:08	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	218349	07/28/17 05:09	JMO	TAL PIT
Total/NA	Analysis	8082A		1			218352	07/28/17 09:08	JMO	TAL PIT
	Instrument ID: CHGC16									
Total/NA	Prep	3050B			1.01 g	100 mL	218293	07/27/17 12:44	CRM	TAL PIT
Total/NA	Analysis	6010C		1			218421	07/28/17 09:50	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.62 g	100 mL	218383	07/31/17 08:10	RJR	TAL PIT
Total/NA	Analysis	7471B		1			218639	07/31/17 11:52	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.00 g	50 mL	218282	07/27/17 11:19	JAS	TAL PIT
Total/NA	Analysis	9014		1			218335	07/27/17 15:08	JAS	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: WB6-7, S2, A 72517
Date Collected: 07/25/17 16:35
Date Received: 07/26/17 07:30

Lab Sample ID: 180-68556-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218185	07/26/17 15:12	JJZ	TAL PIT
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68556-1

Client Sample ID: WB6-7, S2, A 72517
Date Collected: 07/25/17 16:35
Date Received: 07/26/17 07:30

Lab Sample ID: 180-68556-7
Matrix: Solid
Percent Solids: 71.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.6665 g	5 mL	218236	07/27/17 05:30	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	218225	07/27/17 10:33	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: WB6-7, S2, B 72517
Date Collected: 07/25/17 16:25
Date Received: 07/26/17 07:30

Lab Sample ID: 180-68556-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218185	07/26/17 15:12	JJZ	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: WB6-7, S2, B 72517
Date Collected: 07/25/17 16:25
Date Received: 07/26/17 07:30

Lab Sample ID: 180-68556-8
Matrix: Solid
Percent Solids: 84.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			7.4758 g	5 mL	218236	07/27/17 05:30	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	218225	07/27/17 10:56	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: WB6-7, S2, C 72517
Date Collected: 07/25/17 16:40
Date Received: 07/26/17 07:30

Lab Sample ID: 180-68556-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218185	07/26/17 15:12	JJZ	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: WB6-7, S2, C 72517
Date Collected: 07/25/17 16:40
Date Received: 07/26/17 07:30

Lab Sample ID: 180-68556-9
Matrix: Solid
Percent Solids: 82.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	0.5 mL	218278	07/27/17 11:20	MAL	TAL PIT
Total/NA	Analysis	8270D LL		1	1 mL	1 mL	218265	07/27/17 19:59	VVP	TAL PIT
	Instrument ID: CH732									
Total/NA	Prep	3541			15.0 g	20.0 mL	218279	07/27/17 11:28	MAL	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	218348	07/28/17 05:08	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	218349	07/28/17 05:09	JMO	TAL PIT
Total/NA	Analysis	8082A		1			218352	07/28/17 09:29	JMO	TAL PIT
	Instrument ID: CHGC16									
Total/NA	Prep	3050B			1.01 g	100 mL	218293	07/27/17 12:44	CRM	TAL PIT

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68556-1

Client Sample ID: WB6-7, S2, C 72517

Date Collected: 07/25/17 16:40
Date Received: 07/26/17 07:30

Lab Sample ID: 180-68556-9

Matrix: Solid
Percent Solids: 82.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	6010C		1			218421	07/28/17 09:55	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.57 g	100 mL	218383	07/31/17 08:10	RJR	TAL PIT
Total/NA	Analysis	7471B		1			218639	07/31/17 11:55	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.02 g	50 mL	218282	07/27/17 11:19	JAS	TAL PIT
Total/NA	Analysis	9014		1			218335	07/27/17 15:10	JAS	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: DUP 17 72517

Date Collected: 07/25/17 00:00
Date Received: 07/26/17 07:30

Lab Sample ID: 180-68556-10

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218185	07/26/17 15:12	JJZ	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: DUP 17 72517

Date Collected: 07/25/17 00:00
Date Received: 07/26/17 07:30

Lab Sample ID: 180-68556-10

Matrix: Solid
Percent Solids: 79.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.0205 g	5 mL	218236	07/27/17 05:30	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	218225	07/27/17 11:18	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: TRIP BLANK

Date Collected: 07/25/17 00:00
Date Received: 07/26/17 07:30

Lab Sample ID: 180-68556-11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	218214	07/27/17 05:26	FBB	TAL PIT
	Instrument ID: CHHP6									

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Analyst References:

Lab: TAL PIT

Batch Type: Cleanup

JMO = John Oravec

Batch Type: Prep

CRM = Caitlin McEvoy

JAS = Joshua Schmidt

KLG = Kathy Gordon

MAL = Michael Lonzo

RJR = Ron Rosenbaum

Batch Type: Analysis

FBB = Frank Bungard

JAS = Joshua Schmidt

JJZ = Joseph Zubrow

JMO = John Oravec

KLG = Kathy Gordon

RJG = Rob Good

RJR = Ron Rosenbaum

VVP = Vincent Piccolino

Client Sample ID: WB7-8, S5, A 72517

Lab Sample ID: 180-68556-1
Date Collected: 07/25/17 11:35
Matrix: Solid
Date Received: 07/26/17 07:30
Percent Solids: 82.4

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.029	0.0046	mg/Kg	☼	07/27/17 05:30	07/27/17 09:03	1
Benzene	ND		0.0073	0.0029	mg/Kg	☼	07/27/17 05:30	07/27/17 09:03	1
2-Butanone (MEK)	ND		0.0073	0.0043	mg/Kg	☼	07/27/17 05:30	07/27/17 09:03	1
Carbon tetrachloride	ND	F1	0.0073	0.0049	mg/Kg	☼	07/27/17 05:30	07/27/17 09:03	1
Chlorobenzene	ND		0.0073	0.0023	mg/Kg	☼	07/27/17 05:30	07/27/17 09:03	1
Chloroform	ND		0.0073	0.0031	mg/Kg	☼	07/27/17 05:30	07/27/17 09:03	1
cis-1,2-Dichloroethene	ND		0.0073	0.0023	mg/Kg	☼	07/27/17 05:30	07/27/17 09:03	1
1,2-Dichlorobenzene	ND		0.0073	0.0059	mg/Kg	☼	07/27/17 05:30	07/27/17 09:03	1
1,3-Dichlorobenzene	ND		0.0073	0.0023	mg/Kg	☼	07/27/17 05:30	07/27/17 09:03	1
1,4-Dichlorobenzene	ND		0.0073	0.0015	mg/Kg	☼	07/27/17 05:30	07/27/17 09:03	1
1,1-Dichloroethane	ND		0.0073	0.0027	mg/Kg	☼	07/27/17 05:30	07/27/17 09:03	1
1,2-Dichloroethane	ND		0.0073	0.0021	mg/Kg	☼	07/27/17 05:30	07/27/17 09:03	1
1,1-Dichloroethene	ND		0.0073	0.0042	mg/Kg	☼	07/27/17 05:30	07/27/17 09:03	1
Ethylbenzene	ND		0.0073	0.0032	mg/Kg	☼	07/27/17 05:30	07/27/17 09:03	1
Methylene Chloride	ND		0.0073	0.0035	mg/Kg	☼	07/27/17 05:30	07/27/17 09:03	1
Methyl tert-butyl ether	ND		0.0073	0.0054	mg/Kg	☼	07/27/17 05:30	07/27/17 09:03	1
n-Butylbenzene	ND		0.0073	0.0056	mg/Kg	☼	07/27/17 05:30	07/27/17 09:03	1
N-Propylbenzene	ND	F1	0.0073	0.0031	mg/Kg	☼	07/27/17 05:30	07/27/17 09:03	1
sec-Butylbenzene	ND		0.0073	0.0036	mg/Kg	☼	07/27/17 05:30	07/27/17 09:03	1
tert-Butylbenzene	ND		0.0073	0.0027	mg/Kg	☼	07/27/17 05:30	07/27/17 09:03	1
Tetrachloroethene	ND		0.0073	0.0029	mg/Kg	☼	07/27/17 05:30	07/27/17 09:03	1
Toluene	ND		0.0073	0.0025	mg/Kg	☼	07/27/17 05:30	07/27/17 09:03	1
trans-1,2-Dichloroethene	ND		0.0073	0.0037	mg/Kg	☼	07/27/17 05:30	07/27/17 09:03	1
1,1,1-Trichloroethane	ND	F1	0.0073	0.0037	mg/Kg	☼	07/27/17 05:30	07/27/17 09:03	1
Trichloroethene	ND		0.0073	0.0022	mg/Kg	☼	07/27/17 05:30	07/27/17 09:03	1
1,2,4-Trimethylbenzene	ND	F1	0.0073	0.0020	mg/Kg	☼	07/27/17 05:30	07/27/17 09:03	1
1,3,5-Trimethylbenzene	ND		0.0073	0.0025	mg/Kg	☼	07/27/17 05:30	07/27/17 09:03	1
Vinyl chloride	ND		0.0073	0.0054	mg/Kg	☼	07/27/17 05:30	07/27/17 09:03	1
Xylenes, Total	ND		0.015	0.0063	mg/Kg	☼	07/27/17 05:30	07/27/17 09:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*63 - 120*	*07/27/17 05:30*	*07/27/17 09:03*	*1*
Dibromofluoromethane (Surr)	*100*		*68 - 121*	*07/27/17 05:30*	*07/27/17 09:03*	*1*
1,2-Dichloroethane-d4 (Surr)	*89*		*52 - 124*	*07/27/17 05:30*	*07/27/17 09:03*	*1*
Toluene-d8 (Surr)	*109*		*72 - 127*	*07/27/17 05:30*	*07/27/17 09:03*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**17.6**		0.1	0.1	%			07/26/17 15:12	1
Percent Solids	**82.4**		0.1	0.1	%			07/26/17 15:12	1

Client Sample ID: WB7-8, S5, B 72517

Lab Sample ID: 180-68556-2
Date Collected: 07/25/17 11:50
Matrix: Solid
Date Received: 07/26/17 07:30
Percent Solids: 84.5

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.020	0.0031	mg/Kg	☼	07/27/17 05:30	07/27/17 09:25	1
Benzene	ND		0.0050	0.0020	mg/Kg	☼	07/27/17 05:30	07/27/17 09:25	1
2-Butanone (MEK)	ND		0.0050	0.0029	mg/Kg	☼	07/27/17 05:30	07/27/17 09:25	1

Client Sample ID: WB7-8, S5, B 72517 — Lab Sample ID: 180-68556-2

Date Collected: 07/25/17 11:50 — **Matrix: Solid**
Date Received: 07/26/17 07:30 — **Percent Solids: 84.5**

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	ND		0.0050	0.0033	mg/Kg	☼	07/27/17 05:30	07/27/17 09:25	1
Chlorobenzene	ND		0.0050	0.0016	mg/Kg	☼	07/27/17 05:30	07/27/17 09:25	1
Chloroform	ND		0.0050	0.0021	mg/Kg	☼	07/27/17 05:30	07/27/17 09:25	1
cis-1,2-Dichloroethene	ND		0.0050	0.0016	mg/Kg	☼	07/27/17 05:30	07/27/17 09:25	1
1,2-Dichlorobenzene	ND		0.0050	0.0040	mg/Kg	☼	07/27/17 05:30	07/27/17 09:25	1
1,3-Dichlorobenzene	ND		0.0050	0.0016	mg/Kg	☼	07/27/17 05:30	07/27/17 09:25	1
1,4-Dichlorobenzene	ND		0.0050	0.0010	mg/Kg	☼	07/27/17 05:30	07/27/17 09:25	1
1,1-Dichloroethane	ND		0.0050	0.0018	mg/Kg	☼	07/27/17 05:30	07/27/17 09:25	1
1,2-Dichloroethane	ND		0.0050	0.0014	mg/Kg	☼	07/27/17 05:30	07/27/17 09:25	1
1,1-Dichloroethene	ND		0.0050	0.0028	mg/Kg	☼	07/27/17 05:30	07/27/17 09:25	1
Ethylbenzene	ND		0.0050	0.0021	mg/Kg	☼	07/27/17 05:30	07/27/17 09:25	1
Methylene Chloride	ND		0.0050	0.0023	mg/Kg	☼	07/27/17 05:30	07/27/17 09:25	1
Methyl tert-butyl ether	ND		0.0050	0.0037	mg/Kg	☼	07/27/17 05:30	07/27/17 09:25	1
n-Butylbenzene	ND		0.0050	0.0038	mg/Kg	☼	07/27/17 05:30	07/27/17 09:25	1
N-Propylbenzene	ND		0.0050	0.0021	mg/Kg	☼	07/27/17 05:30	07/27/17 09:25	1
sec-Butylbenzene	ND		0.0050	0.0024	mg/Kg	☼	07/27/17 05:30	07/27/17 09:25	1
tert-Butylbenzene	ND		0.0050	0.0018	mg/Kg	☼	07/27/17 05:30	07/27/17 09:25	1
Tetrachloroethene	ND		0.0050	0.0020	mg/Kg	☼	07/27/17 05:30	07/27/17 09:25	1
Toluene	ND		0.0050	0.0017	mg/Kg	☼	07/27/17 05:30	07/27/17 09:25	1
trans-1,2-Dichloroethene	ND		0.0050	0.0025	mg/Kg	☼	07/27/17 05:30	07/27/17 09:25	1
1,1,1-Trichloroethane	ND		0.0050	0.0025	mg/Kg	☼	07/27/17 05:30	07/27/17 09:25	1
Trichloroethene	ND		0.0050	0.0015	mg/Kg	☼	07/27/17 05:30	07/27/17 09:25	1
1,2,4-Trimethylbenzene	ND		0.0050	0.0013	mg/Kg	☼	07/27/17 05:30	07/27/17 09:25	1
1,3,5-Trimethylbenzene	ND		0.0050	0.0017	mg/Kg	☼	07/27/17 05:30	07/27/17 09:25	1
Vinyl chloride	ND		0.0050	0.0036	mg/Kg	☼	07/27/17 05:30	07/27/17 09:25	1
Xylenes, Total	ND		0.0099	0.0043	mg/Kg	☼	07/27/17 05:30	07/27/17 09:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*63 - 120*	*07/27/17 05:30*	*07/27/17 09:25*	*1*
Dibromofluoromethane (Surr)	*98*		*68 - 121*	*07/27/17 05:30*	*07/27/17 09:25*	*1*
1,2-Dichloroethane-d4 (Surr)	*88*		*52 - 124*	*07/27/17 05:30*	*07/27/17 09:25*	*1*
Toluene-d8 (Surr)	*110*		*72 - 127*	*07/27/17 05:30*	*07/27/17 09:25*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**15.5**		0.1	0.1	%			07/26/17 15:12	1
Percent Solids	**84.5**		0.1	0.1	%			07/26/17 15:12	1

Client Sample ID: WB7-8, S5, C 72517 — Lab Sample ID: 180-68556-3

Date Collected: 07/25/17 11:55 — **Matrix: Solid**
Date Received: 07/26/17 07:30 — **Percent Solids: 75.3**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.0091**	**F2**	0.0089	0.0030	mg/Kg	☼	07/27/17 11:20	07/27/17 18:11	1
Acenaphthylene	**0.038**	**F2 F1**	0.0089	0.0030	mg/Kg	☼	07/27/17 11:20	07/27/17 18:11	1
Anthracene	**0.036**	**F2 F1**	0.0089	0.0033	mg/Kg	☼	07/27/17 11:20	07/27/17 18:11	1
Benzo[a]anthracene	**0.097**	**F2 F1**	0.0089	0.0035	mg/Kg	☼	07/27/17 11:20	07/27/17 18:11	1
Benzo[a]pyrene	**0.10**	**F2**	0.0089	0.0037	mg/Kg	☼	07/27/17 11:20	07/27/17 18:11	1
Benzo[b]fluoranthene	**0.14**	**F2 F1**	0.0089	0.0038	mg/Kg	☼	07/27/17 11:20	07/27/17 18:11	1

Client Sample ID: WB7-8, S5, C 72517 **Lab Sample ID: 180-68556-3**
Date Collected: 07/25/17 11:55 **Matrix: Solid**
Date Received: 07/26/17 07:30 **Percent Solids: 75.3**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	**0.096**	**F2**	0.0089	0.0038	mg/Kg	☼	07/27/17 11:20	07/27/17 18:11	1
Benzo[k]fluoranthene	**0.051**	**F2 F1**	0.0089	0.0031	mg/Kg	☼	07/27/17 11:20	07/27/17 18:11	1
Chrysene	**0.11**	**F2**	0.0089	0.0035	mg/Kg	☼	07/27/17 11:20	07/27/17 18:11	1
Dibenz(a,h)anthracene	**0.024**	**F2**	0.0089	0.0037	mg/Kg	☼	07/27/17 11:20	07/27/17 18:11	1
Dibenzofuran	**0.0075**	**J F2**	0.044	0.0035	mg/Kg	☼	07/27/17 11:20	07/27/17 18:11	1
1,4-Dioxane	ND	F2	0.089	0.0067	mg/Kg	☼	07/27/17 11:20	07/27/17 18:11	1
Fluoranthene	**0.18**	**F2**	0.0089	0.0035	mg/Kg	☼	07/27/17 11:20	07/27/17 18:11	1
Fluorene	**0.011**	**F2**	0.0089	0.0032	mg/Kg	☼	07/27/17 11:20	07/27/17 18:11	1
Hexachlorobenzene	ND	F2	0.0089	0.0036	mg/Kg	☼	07/27/17 11:20	07/27/17 18:11	1
Indeno[1,2,3-cd]pyrene	**0.082**	**F2**	0.0089	0.0034	mg/Kg	☼	07/27/17 11:20	07/27/17 18:11	1
2-Methylphenol	ND	F2	0.044	0.0039	mg/Kg	☼	07/27/17 11:20	07/27/17 18:11	1
Methylphenol, 3 & 4	**0.012**	**J F2**	0.044	0.0039	mg/Kg	☼	07/27/17 11:20	07/27/17 18:11	1
Naphthalene	**0.015**	**F2**	0.0089	0.0032	mg/Kg	☼	07/27/17 11:20	07/27/17 18:11	1
Pentachlorophenol	ND	F2	0.23	0.084	mg/Kg	☼	07/27/17 11:20	07/27/17 18:11	1
Phenanthrene	**0.085**	**F2 F1**	0.0089	0.0037	mg/Kg	☼	07/27/17 11:20	07/27/17 18:11	1
Phenol	ND	F2	0.044	0.0060	mg/Kg	☼	07/27/17 11:20	07/27/17 18:11	1
Pyrene	**0.15**	**F2 F1**	0.0089	0.0039	mg/Kg	☼	07/27/17 11:20	07/27/17 18:11	1
Hexachloroethane	ND	F2	44	3.2	ug/Kg	☼	07/27/17 11:20	07/27/17 18:11	1
Nitrobenzene	ND	F2	89	3.4	ug/Kg	☼	07/27/17 11:20	07/27/17 18:11	1
Hexachlorobutadiene	ND	F2	8.9	2.8	ug/Kg	☼	07/27/17 11:20	07/27/17 18:11	1
2,4,5-Trichlorophenol	ND	F2	44	4.2	ug/Kg	☼	07/27/17 11:20	07/27/17 18:11	1
2,4,6-Trichlorophenol	ND	F2	44	3.9	ug/Kg	☼	07/27/17 11:20	07/27/17 18:11	1
2,4-Dinitrotoluene	ND	F2	44	5.9	ug/Kg	☼	07/27/17 11:20	07/27/17 18:11	1
Pyridine	ND	F2 F1	44	4.2	ug/Kg	☼	07/27/17 11:20	07/27/17 18:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*51*		*42 - 100*	*07/27/17 11:20*	*07/27/17 18:11*	*1*
2-Fluorophenol (Surr)	*50*		*21 - 107*	*07/27/17 11:20*	*07/27/17 18:11*	*1*
Nitrobenzene-d5 (Surr)	*46*		*35 - 109*	*07/27/17 11:20*	*07/27/17 18:11*	*1*
Phenol-d5 (Surr)	*50*		*29 - 105*	*07/27/17 11:20*	*07/27/17 18:11*	*1*
Terphenyl-d14 (Surr)	*51*		*36 - 113*	*07/27/17 11:20*	*07/27/17 18:11*	*1*
2,4,6-Tribromophenol (Surr)	*71*		*20 - 134*	*07/27/17 11:20*	*07/27/17 18:11*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.022	0.012	mg/Kg	☼	07/27/17 11:28	07/28/17 08:06	1
PCB-1221	ND		0.022	0.011	mg/Kg	☼	07/27/17 11:28	07/28/17 08:06	1
PCB-1232	ND		0.022	0.0088	mg/Kg	☼	07/27/17 11:28	07/28/17 08:06	1
PCB-1242	ND		0.022	0.018	mg/Kg	☼	07/27/17 11:28	07/28/17 08:06	1
PCB-1248	**0.87**		0.022	0.011	mg/Kg	☼	07/27/17 11:28	07/28/17 08:06	1
PCB-1254	**0.36**		0.022	0.0097	mg/Kg	☼	07/27/17 11:28	07/28/17 08:06	1
PCB-1260	**0.038**		0.022	0.015	mg/Kg	☼	07/27/17 11:28	07/28/17 08:06	1
PCB-1262	ND		0.022	0.016	mg/Kg	☼	07/27/17 11:28	07/28/17 08:06	1
PCB-1268	ND		0.022	0.0067	mg/Kg	☼	07/27/17 11:28	07/28/17 08:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*84*		*23 - 150*	*07/27/17 11:28*	*07/28/17 08:06*	*1*
DCB Decachlorobiphenyl (Surr)	*89*		*23 - 150*	*07/27/17 11:28*	*07/28/17 08:06*	*1*
Tetrachloro-m-xylene (Surr)	*79*		*27 - 138*	*07/27/17 11:28*	*07/28/17 08:06*	*1*
Tetrachloro-m-xylene (Surr)	*84*		*27 - 138*	*07/27/17 11:28*	*07/28/17 08:06*	*1*

Client Sample ID: WB7-8, S5, C 72517 — Lab Sample ID: 180-68556-3

Date Collected: 07/25/17 11:55 — **Matrix: Solid**
Date Received: 07/26/17 07:30 — **Percent Solids: 75.3**

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.6		1.4	0.61	mg/Kg	☼	07/27/17 12:44	07/28/17 09:16	1
Barium	90		28	7.4	mg/Kg	☼	07/27/17 12:44	07/28/17 09:16	1
Beryllium	0.38	J	0.55	0.14	mg/Kg	☼	07/27/17 12:44	07/28/17 09:16	1
Cadmium	0.26	J	0.69	0.16	mg/Kg	☼	07/27/17 12:44	07/28/17 09:16	1
Chromium	9.8		0.69	0.18	mg/Kg	☼	07/27/17 12:44	07/28/17 09:16	1
Copper	21		3.5	1.1	mg/Kg	☼	07/27/17 12:44	07/28/17 09:16	1
Lead	22		1.4	0.45	mg/Kg	☼	07/27/17 12:44	07/28/17 09:16	1
Manganese	420		2.1	0.56	mg/Kg	☼	07/27/17 12:44	07/28/17 09:16	1
Nickel	18		5.5	1.2	mg/Kg	☼	07/27/17 12:44	07/28/17 09:16	1
Selenium	ND		1.4	0.55	mg/Kg	☼	07/27/17 12:44	07/28/17 09:16	1
Silver	ND		0.69	0.23	mg/Kg	☼	07/27/17 12:44	07/28/17 09:16	1
Zinc	59		2.8	1.4	mg/Kg	☼	07/27/17 12:44	07/28/17 09:16	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.036	J F1	0.046	0.010	mg/Kg	☼	07/31/17 08:10	07/31/17 11:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	24.7		0.1	0.1	%			07/26/17 15:12	1
Percent Solids	75.3		0.1	0.1	%			07/26/17 15:12	1
Cyanide, Total	0.38	J	0.65	0.20	mg/Kg	☼	07/27/17 11:19	07/27/17 14:59	1

Client Sample ID: WB6-7, S1, A 72517 — Lab Sample ID: 180-68556-4

Date Collected: 07/25/17 15:10 — **Matrix: Solid**
Date Received: 07/26/17 07:30 — **Percent Solids: 77.5**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.026	0.0041	mg/Kg	☼	07/27/17 05:30	07/27/17 09:48	1
Benzene	ND		0.0065	0.0026	mg/Kg	☼	07/27/17 05:30	07/27/17 09:48	1
2-Butanone (MEK)	ND		0.0065	0.0038	mg/Kg	☼	07/27/17 05:30	07/27/17 09:48	1
Carbon tetrachloride	ND		0.0065	0.0043	mg/Kg	☼	07/27/17 05:30	07/27/17 09:48	1
Chlorobenzene	ND		0.0065	0.0021	mg/Kg	☼	07/27/17 05:30	07/27/17 09:48	1
Chloroform	ND		0.0065	0.0028	mg/Kg	☼	07/27/17 05:30	07/27/17 09:48	1
cis-1,2-Dichloroethene	ND		0.0065	0.0021	mg/Kg	☼	07/27/17 05:30	07/27/17 09:48	1
1,2-Dichlorobenzene	ND		0.0065	0.0053	mg/Kg	☼	07/27/17 05:30	07/27/17 09:48	1
1,3-Dichlorobenzene	ND		0.0065	0.0021	mg/Kg	☼	07/27/17 05:30	07/27/17 09:48	1
1,4-Dichlorobenzene	ND		0.0065	0.0013	mg/Kg	☼	07/27/17 05:30	07/27/17 09:48	1
1,1-Dichloroethane	ND		0.0065	0.0024	mg/Kg	☼	07/27/17 05:30	07/27/17 09:48	1
1,2-Dichloroethane	ND		0.0065	0.0019	mg/Kg	☼	07/27/17 05:30	07/27/17 09:48	1
1,1-Dichloroethene	ND		0.0065	0.0037	mg/Kg	☼	07/27/17 05:30	07/27/17 09:48	1
Ethylbenzene	ND		0.0065	0.0028	mg/Kg	☼	07/27/17 05:30	07/27/17 09:48	1
Methylene Chloride	ND		0.0065	0.0031	mg/Kg	☼	07/27/17 05:30	07/27/17 09:48	1
Methyl tert-butyl ether	ND		0.0065	0.0048	mg/Kg	☼	07/27/17 05:30	07/27/17 09:48	1
n-Butylbenzene	ND		0.0065	0.0050	mg/Kg	☼	07/27/17 05:30	07/27/17 09:48	1
N-Propylbenzene	ND		0.0065	0.0028	mg/Kg	☼	07/27/17 05:30	07/27/17 09:48	1
sec-Butylbenzene	ND		0.0065	0.0032	mg/Kg	☼	07/27/17 05:30	07/27/17 09:48	1
tert-Butylbenzene	ND		0.0065	0.0024	mg/Kg	☼	07/27/17 05:30	07/27/17 09:48	1
Tetrachloroethene	ND		0.0065	0.0026	mg/Kg	☼	07/27/17 05:30	07/27/17 09:48	1

Client Sample ID: WB6-7, S1, A 72517

Lab Sample ID: 180-68556-4
Date Collected: 07/25/17 15:10
Matrix: Solid
Date Received: 07/26/17 07:30
Percent Solids: 77.5

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		0.0065	0.0022	mg/Kg	☼	07/27/17 05:30	07/27/17 09:48	1
trans-1,2-Dichloroethene	ND		0.0065	0.0033	mg/Kg	☼	07/27/17 05:30	07/27/17 09:48	1
1,1,1-Trichloroethane	ND		0.0065	0.0033	mg/Kg	☼	07/27/17 05:30	07/27/17 09:48	1
Trichloroethene	ND		0.0065	0.0020	mg/Kg	☼	07/27/17 05:30	07/27/17 09:48	1
1,2,4-Trimethylbenzene	ND		0.0065	0.0018	mg/Kg	☼	07/27/17 05:30	07/27/17 09:48	1
1,3,5-Trimethylbenzene	ND		0.0065	0.0023	mg/Kg	☼	07/27/17 05:30	07/27/17 09:48	1
Vinyl chloride	ND		0.0065	0.0048	mg/Kg	☼	07/27/17 05:30	07/27/17 09:48	1
Xylenes, Total	ND		0.013	0.0056	mg/Kg	☼	07/27/17 05:30	07/27/17 09:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*63 - 120*	*07/27/17 05:30*	*07/27/17 09:48*	*1*
Dibromofluoromethane (Surr)	*96*		*68 - 121*	*07/27/17 05:30*	*07/27/17 09:48*	*1*
1,2-Dichloroethane-d4 (Surr)	*86*		*52 - 124*	*07/27/17 05:30*	*07/27/17 09:48*	*1*
Toluene-d8 (Surr)	*107*		*72 - 127*	*07/27/17 05:30*	*07/27/17 09:48*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**22.5**		0.1	0.1	%			07/26/17 15:12	1
Percent Solids	**77.5**		0.1	0.1	%			07/26/17 15:12	1

Client Sample ID: WB6-7, S1, B 72517

Lab Sample ID: 180-68556-5
Date Collected: 07/25/17 15:20
Matrix: Solid
Date Received: 07/26/17 07:30
Percent Solids: 77.4

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.029	0.0045	mg/Kg	☼	07/27/17 05:30	07/27/17 10:10	1
Benzene	ND		0.0071	0.0028	mg/Kg	☼	07/27/17 05:30	07/27/17 10:10	1
2-Butanone (MEK)	ND		0.0071	0.0041	mg/Kg	☼	07/27/17 05:30	07/27/17 10:10	1
Carbon tetrachloride	ND		0.0071	0.0047	mg/Kg	☼	07/27/17 05:30	07/27/17 10:10	1
Chlorobenzene	ND		0.0071	0.0022	mg/Kg	☼	07/27/17 05:30	07/27/17 10:10	1
Chloroform	ND		0.0071	0.0030	mg/Kg	☼	07/27/17 05:30	07/27/17 10:10	1
cis-1,2-Dichloroethene	ND		0.0071	0.0022	mg/Kg	☼	07/27/17 05:30	07/27/17 10:10	1
1,2-Dichlorobenzene	ND		0.0071	0.0057	mg/Kg	☼	07/27/17 05:30	07/27/17 10:10	1
1,3-Dichlorobenzene	ND		0.0071	0.0023	mg/Kg	☼	07/27/17 05:30	07/27/17 10:10	1
1,4-Dichlorobenzene	ND		0.0071	0.0015	mg/Kg	☼	07/27/17 05:30	07/27/17 10:10	1
1,1-Dichloroethane	ND		0.0071	0.0026	mg/Kg	☼	07/27/17 05:30	07/27/17 10:10	1
1,2-Dichloroethane	ND		0.0071	0.0021	mg/Kg	☼	07/27/17 05:30	07/27/17 10:10	1
1,1-Dichloroethene	ND		0.0071	0.0041	mg/Kg	☼	07/27/17 05:30	07/27/17 10:10	1
Ethylbenzene	ND		0.0071	0.0031	mg/Kg	☼	07/27/17 05:30	07/27/17 10:10	1
Methylene Chloride	ND		0.0071	0.0034	mg/Kg	☼	07/27/17 05:30	07/27/17 10:10	1
Methyl tert-butyl ether	ND		0.0071	0.0053	mg/Kg	☼	07/27/17 05:30	07/27/17 10:10	1
n-Butylbenzene	ND		0.0071	0.0054	mg/Kg	☼	07/27/17 05:30	07/27/17 10:10	1
N-Propylbenzene	ND		0.0071	0.0030	mg/Kg	☼	07/27/17 05:30	07/27/17 10:10	1
sec-Butylbenzene	ND		0.0071	0.0035	mg/Kg	☼	07/27/17 05:30	07/27/17 10:10	1
tert-Butylbenzene	ND		0.0071	0.0026	mg/Kg	☼	07/27/17 05:30	07/27/17 10:10	1
Tetrachloroethene	ND		0.0071	0.0029	mg/Kg	☼	07/27/17 05:30	07/27/17 10:10	1
Toluene	ND		0.0071	0.0024	mg/Kg	☼	07/27/17 05:30	07/27/17 10:10	1
trans-1,2-Dichloroethene	ND		0.0071	0.0036	mg/Kg	☼	07/27/17 05:30	07/27/17 10:10	1
1,1,1-Trichloroethane	ND		0.0071	0.0036	mg/Kg	☼	07/27/17 05:30	07/27/17 10:10	1

Client Sample ID: WB6-7, S1, B 72517

Lab Sample ID: 180-68556-5
Date Collected: 07/25/17 15:20
Matrix: Solid
Date Received: 07/26/17 07:30
Percent Solids: 77.4

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	ND		0.0071	0.0021	mg/Kg	☼	07/27/17 05:30	07/27/17 10:10	1
1,2,4-Trimethylbenzene	ND		0.0071	0.0019	mg/Kg	☼	07/27/17 05:30	07/27/17 10:10	1
1,3,5-Trimethylbenzene	ND		0.0071	0.0025	mg/Kg	☼	07/27/17 05:30	07/27/17 10:10	1
Vinyl chloride	ND		0.0071	0.0052	mg/Kg	☼	07/27/17 05:30	07/27/17 10:10	1
Xylenes, Total	ND		0.014	0.0062	mg/Kg	☼	07/27/17 05:30	07/27/17 10:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*63 - 120*	*07/27/17 05:30*	*07/27/17 10:10*	*1*
Dibromofluoromethane (Surr)	*102*		*68 - 121*	*07/27/17 05:30*	*07/27/17 10:10*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*52 - 124*	*07/27/17 05:30*	*07/27/17 10:10*	*1*
Toluene-d8 (Surr)	*113*		*72 - 127*	*07/27/17 05:30*	*07/27/17 10:10*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**22.6**		0.1	0.1	%			07/26/17 15:12	1
Percent Solids	**77.4**		0.1	0.1	%			07/26/17 15:12	1

Client Sample ID: WB6-7, S1, C 72517

Lab Sample ID: 180-68556-6
Date Collected: 07/25/17 15:25
Matrix: Solid
Date Received: 07/26/17 07:30
Percent Solids: 77.2

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.0044**	**J**	0.0087	0.0029	mg/Kg	☼	07/27/17 11:20	07/27/17 19:32	1
Acenaphthylene	**0.040**		0.0087	0.0029	mg/Kg	☼	07/27/17 11:20	07/27/17 19:32	1
Anthracene	**0.035**		0.0087	0.0032	mg/Kg	☼	07/27/17 11:20	07/27/17 19:32	1
Benzo[a]anthracene	**0.12**		0.0087	0.0034	mg/Kg	☼	07/27/17 11:20	07/27/17 19:32	1
Benzo[a]pyrene	**0.13**		0.0087	0.0036	mg/Kg	☼	07/27/17 11:20	07/27/17 19:32	1
Benzo[b]fluoranthene	**0.18**		0.0087	0.0037	mg/Kg	☼	07/27/17 11:20	07/27/17 19:32	1
Benzo[g,h,i]perylene	**0.15**		0.0087	0.0037	mg/Kg	☼	07/27/17 11:20	07/27/17 19:32	1
Benzo[k]fluoranthene	**0.067**		0.0087	0.0030	mg/Kg	☼	07/27/17 11:20	07/27/17 19:32	1
Chrysene	**0.15**		0.0087	0.0034	mg/Kg	☼	07/27/17 11:20	07/27/17 19:32	1
Dibenz(a,h)anthracene	**0.032**		0.0087	0.0036	mg/Kg	☼	07/27/17 11:20	07/27/17 19:32	1
Dibenzofuran	**0.0078**	**J**	0.043	0.0035	mg/Kg	☼	07/27/17 11:20	07/27/17 19:32	1
1,4-Dioxane	ND		0.086	0.0065	mg/Kg	☼	07/27/17 11:20	07/27/17 19:32	1
Fluoranthene	**0.21**		0.0087	0.0034	mg/Kg	☼	07/27/17 11:20	07/27/17 19:32	1
Fluorene	**0.0081**	**J**	0.0087	0.0031	mg/Kg	☼	07/27/17 11:20	07/27/17 19:32	1
Hexachlorobenzene	ND		0.0087	0.0035	mg/Kg	☼	07/27/17 11:20	07/27/17 19:32	1
Indeno[1,2,3-cd]pyrene	**0.12**		0.0087	0.0033	mg/Kg	☼	07/27/17 11:20	07/27/17 19:32	1
2-Methylphenol	ND		0.043	0.0038	mg/Kg	☼	07/27/17 11:20	07/27/17 19:32	1
Methylphenol, 3 & 4	**0.0091**	**J**	0.043	0.0038	mg/Kg	☼	07/27/17 11:20	07/27/17 19:32	1
Naphthalene	**0.018**		0.0087	0.0031	mg/Kg	☼	07/27/17 11:20	07/27/17 19:32	1
Pentachlorophenol	ND		0.22	0.082	mg/Kg	☼	07/27/17 11:20	07/27/17 19:32	1
Phenanthrene	**0.075**		0.0087	0.0036	mg/Kg	☼	07/27/17 11:20	07/27/17 19:32	1
Phenol	ND		0.043	0.0058	mg/Kg	☼	07/27/17 11:20	07/27/17 19:32	1
Pyrene	**0.16**		0.0087	0.0038	mg/Kg	☼	07/27/17 11:20	07/27/17 19:32	1
Hexachloroethane	ND		43	3.1	ug/Kg	☼	07/27/17 11:20	07/27/17 19:32	1
Nitrobenzene	ND		86	3.3	ug/Kg	☼	07/27/17 11:20	07/27/17 19:32	1
Hexachlorobutadiene	ND		8.7	2.7	ug/Kg	☼	07/27/17 11:20	07/27/17 19:32	1
2,4,5-Trichlorophenol	ND		43	4.1	ug/Kg	☼	07/27/17 11:20	07/27/17 19:32	1

Client Sample ID: WB6-7, S1, C 72517 **Lab Sample ID: 180-68556-6**
Date Collected: 07/25/17 15:25 **Matrix: Solid**
Date Received: 07/26/17 07:30 **Percent Solids: 77.2**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,6-Trichlorophenol	ND		43	3.8	ug/Kg	☼	07/27/17 11:20	07/27/17 19:32	1
2,4-Dinitrotoluene	ND		43	5.7	ug/Kg	☼	07/27/17 11:20	07/27/17 19:32	1
Pyridine	ND		43	4.1	ug/Kg	☼	07/27/17 11:20	07/27/17 19:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*49*		*42 - 100*	*07/27/17 11:20*	*07/27/17 19:32*	*1*
2-Fluorophenol (Surr)	*42*		*21 - 107*	*07/27/17 11:20*	*07/27/17 19:32*	*1*
Nitrobenzene-d5 (Surr)	*41*		*35 - 109*	*07/27/17 11:20*	*07/27/17 19:32*	*1*
Phenol-d5 (Surr)	*44*		*29 - 105*	*07/27/17 11:20*	*07/27/17 19:32*	*1*
Terphenyl-d14 (Surr)	*44*		*36 - 113*	*07/27/17 11:20*	*07/27/17 19:32*	*1*
2,4,6-Tribromophenol (Surr)	*60*		*20 - 134*	*07/27/17 11:20*	*07/27/17 19:32*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.022	0.011	mg/Kg	☼	07/27/17 11:28	07/28/17 09:08	1
PCB-1221	ND		0.022	0.011	mg/Kg	☼	07/27/17 11:28	07/28/17 09:08	1
PCB-1232	ND		0.022	0.0085	mg/Kg	☼	07/27/17 11:28	07/28/17 09:08	1
PCB-1242	ND		0.022	0.017	mg/Kg	☼	07/27/17 11:28	07/28/17 09:08	1
PCB-1248	**0.78**		0.022	0.010	mg/Kg	☼	07/27/17 11:28	07/28/17 09:08	1
PCB-1254	**0.29**		0.022	0.0095	mg/Kg	☼	07/27/17 11:28	07/28/17 09:08	1
PCB-1260	**0.041**		0.022	0.014	mg/Kg	☼	07/27/17 11:28	07/28/17 09:08	1
PCB-1262	ND		0.022	0.015	mg/Kg	☼	07/27/17 11:28	07/28/17 09:08	1
PCB-1268	ND		0.022	0.0066	mg/Kg	☼	07/27/17 11:28	07/28/17 09:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*84*		*23 - 150*	*07/27/17 11:28*	*07/28/17 09:08*	*1*
DCB Decachlorobiphenyl (Surr)	*87*		*23 - 150*	*07/27/17 11:28*	*07/28/17 09:08*	*1*
Tetrachloro-m-xylene (Surr)	*77*		*27 - 138*	*07/27/17 11:28*	*07/28/17 09:08*	*1*
Tetrachloro-m-xylene (Surr)	*81*		*27 - 138*	*07/27/17 11:28*	*07/28/17 09:08*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**4.7**		1.3	0.57	mg/Kg	☼	07/27/17 12:44	07/28/17 09:50	1
Barium	**72**		26	6.9	mg/Kg	☼	07/27/17 12:44	07/28/17 09:50	1
Beryllium	**0.27**	**J**	0.51	0.13	mg/Kg	☼	07/27/17 12:44	07/28/17 09:50	1
Cadmium	**0.21**	**J**	0.64	0.14	mg/Kg	☼	07/27/17 12:44	07/28/17 09:50	1
Chromium	**8.2**		0.64	0.17	mg/Kg	☼	07/27/17 12:44	07/28/17 09:50	1
Copper	**23**		3.2	0.99	mg/Kg	☼	07/27/17 12:44	07/28/17 09:50	1
Lead	**23**		1.3	0.42	mg/Kg	☼	07/27/17 12:44	07/28/17 09:50	1
Manganese	**400**		1.9	0.52	mg/Kg	☼	07/27/17 12:44	07/28/17 09:50	1
Nickel	**16**		5.1	1.2	mg/Kg	☼	07/27/17 12:44	07/28/17 09:50	1
Selenium	ND		1.3	0.51	mg/Kg	☼	07/27/17 12:44	07/28/17 09:50	1
Silver	ND		0.64	0.21	mg/Kg	☼	07/27/17 12:44	07/28/17 09:50	1
Zinc	**53**		2.6	1.3	mg/Kg	☼	07/27/17 12:44	07/28/17 09:50	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.035**	**J**	0.041	0.0093	mg/Kg	☼	07/31/17 08:10	07/31/17 11:52	1

Client Sample ID: WB6-7, S1, C 72517 — Lab Sample ID: 180-68556-6

Date Collected: 07/25/17 15:25 — **Matrix: Solid**
Date Received: 07/26/17 07:30 — **Percent Solids: 77.2**

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	22.8		0.1	0.1	%			07/26/17 15:12	1
Percent Solids	77.2		0.1	0.1	%			07/26/17 15:12	1
Cyanide, Total	0.47	J	0.65	0.20	mg/Kg	☼	07/27/17 11:19	07/27/17 15:08	1

Client Sample ID: WB6-7, S2, A 72517 — Lab Sample ID: 180-68556-7

Date Collected: 07/25/17 16:35 — **Matrix: Solid**
Date Received: 07/26/17 07:30 — **Percent Solids: 71.2**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.021	0.0033	mg/Kg	☼	07/27/17 05:30	07/27/17 10:33	1
Benzene	ND		0.0053	0.0021	mg/Kg	☼	07/27/17 05:30	07/27/17 10:33	1
2-Butanone (MEK)	ND		0.0053	0.0031	mg/Kg	☼	07/27/17 05:30	07/27/17 10:33	1
Carbon tetrachloride	ND		0.0053	0.0035	mg/Kg	☼	07/27/17 05:30	07/27/17 10:33	1
Chlorobenzene	ND		0.0053	0.0017	mg/Kg	☼	07/27/17 05:30	07/27/17 10:33	1
Chloroform	ND		0.0053	0.0022	mg/Kg	☼	07/27/17 05:30	07/27/17 10:33	1
cis-1,2-Dichloroethene	ND		0.0053	0.0017	mg/Kg	☼	07/27/17 05:30	07/27/17 10:33	1
1,2-Dichlorobenzene	ND		0.0053	0.0042	mg/Kg	☼	07/27/17 05:30	07/27/17 10:33	1
1,3-Dichlorobenzene	ND		0.0053	0.0017	mg/Kg	☼	07/27/17 05:30	07/27/17 10:33	1
1,4-Dichlorobenzene	ND		0.0053	0.0011	mg/Kg	☼	07/27/17 05:30	07/27/17 10:33	1
1,1-Dichloroethane	ND		0.0053	0.0019	mg/Kg	☼	07/27/17 05:30	07/27/17 10:33	1
1,2-Dichloroethane	ND		0.0053	0.0015	mg/Kg	☼	07/27/17 05:30	07/27/17 10:33	1
1,1-Dichloroethene	ND		0.0053	0.0030	mg/Kg	☼	07/27/17 05:30	07/27/17 10:33	1
Ethylbenzene	ND		0.0053	0.0023	mg/Kg	☼	07/27/17 05:30	07/27/17 10:33	1
Methylene Chloride	ND		0.0053	0.0025	mg/Kg	☼	07/27/17 05:30	07/27/17 10:33	1
Methyl tert-butyl ether	ND		0.0053	0.0039	mg/Kg	☼	07/27/17 05:30	07/27/17 10:33	1
n-Butylbenzene	ND		0.0053	0.0040	mg/Kg	☼	07/27/17 05:30	07/27/17 10:33	1
N-Propylbenzene	ND		0.0053	0.0022	mg/Kg	☼	07/27/17 05:30	07/27/17 10:33	1
sec-Butylbenzene	ND		0.0053	0.0026	mg/Kg	☼	07/27/17 05:30	07/27/17 10:33	1
tert-Butylbenzene	ND		0.0053	0.0019	mg/Kg	☼	07/27/17 05:30	07/27/17 10:33	1
Tetrachloroethene	ND		0.0053	0.0021	mg/Kg	☼	07/27/17 05:30	07/27/17 10:33	1
Toluene	ND		0.0053	0.0018	mg/Kg	☼	07/27/17 05:30	07/27/17 10:33	1
trans-1,2-Dichloroethene	ND		0.0053	0.0027	mg/Kg	☼	07/27/17 05:30	07/27/17 10:33	1
1,1,1-Trichloroethane	ND		0.0053	0.0026	mg/Kg	☼	07/27/17 05:30	07/27/17 10:33	1
Trichloroethene	ND		0.0053	0.0016	mg/Kg	☼	07/27/17 05:30	07/27/17 10:33	1
1,2,4-Trimethylbenzene	ND		0.0053	0.0014	mg/Kg	☼	07/27/17 05:30	07/27/17 10:33	1
1,3,5-Trimethylbenzene	ND		0.0053	0.0018	mg/Kg	☼	07/27/17 05:30	07/27/17 10:33	1
Vinyl chloride	ND		0.0053	0.0039	mg/Kg	☼	07/27/17 05:30	07/27/17 10:33	1
Xylenes, Total	ND		0.011	0.0045	mg/Kg	☼	07/27/17 05:30	07/27/17 10:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*63 - 120*	*07/27/17 05:30*	*07/27/17 10:33*	*1*
Dibromofluoromethane (Surr)	*96*		*68 - 121*	*07/27/17 05:30*	*07/27/17 10:33*	*1*
1,2-Dichloroethane-d4 (Surr)	*87*		*52 - 124*	*07/27/17 05:30*	*07/27/17 10:33*	*1*
Toluene-d8 (Surr)	*107*		*72 - 127*	*07/27/17 05:30*	*07/27/17 10:33*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	28.8		0.1	0.1	%			07/26/17 15:12	1
Percent Solids	71.2		0.1	0.1	%			07/26/17 15:12	1

Client Sample ID: WB6-7, S2, B 72517 — Lab Sample ID: 180-68556-8

Date Collected: 07/25/17 16:25 — **Matrix: Solid**
Date Received: 07/26/17 07:30 — **Percent Solids: 84.6**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.016	0.0025	mg/Kg	☼	07/27/17 05:30	07/27/17 10:56	1
Benzene	ND		0.0040	0.0016	mg/Kg	☼	07/27/17 05:30	07/27/17 10:56	1
2-Butanone (MEK)	ND		0.0040	0.0023	mg/Kg	☼	07/27/17 05:30	07/27/17 10:56	1
Carbon tetrachloride	ND		0.0040	0.0026	mg/Kg	☼	07/27/17 05:30	07/27/17 10:56	1
Chlorobenzene	ND		0.0040	0.0012	mg/Kg	☼	07/27/17 05:30	07/27/17 10:56	1
Chloroform	ND		0.0040	0.0017	mg/Kg	☼	07/27/17 05:30	07/27/17 10:56	1
cis-1,2-Dichloroethene	ND		0.0040	0.0012	mg/Kg	☼	07/27/17 05:30	07/27/17 10:56	1
1,2-Dichlorobenzene	ND		0.0040	0.0032	mg/Kg	☼	07/27/17 05:30	07/27/17 10:56	1
1,3-Dichlorobenzene	ND		0.0040	0.0013	mg/Kg	☼	07/27/17 05:30	07/27/17 10:56	1
1,4-Dichlorobenzene	ND		0.0040	0.00081	mg/Kg	☼	07/27/17 05:30	07/27/17 10:56	1
1,1-Dichloroethane	ND		0.0040	0.0014	mg/Kg	☼	07/27/17 05:30	07/27/17 10:56	1
1,2-Dichloroethane	ND		0.0040	0.0011	mg/Kg	☼	07/27/17 05:30	07/27/17 10:56	1
1,1-Dichloroethene	ND		0.0040	0.0023	mg/Kg	☼	07/27/17 05:30	07/27/17 10:56	1
Ethylbenzene	ND		0.0040	0.0017	mg/Kg	☼	07/27/17 05:30	07/27/17 10:56	1
Methylene Chloride	ND		0.0040	0.0019	mg/Kg	☼	07/27/17 05:30	07/27/17 10:56	1
Methyl tert-butyl ether	ND		0.0040	0.0029	mg/Kg	☼	07/27/17 05:30	07/27/17 10:56	1
n-Butylbenzene	ND		0.0040	0.0030	mg/Kg	☼	07/27/17 05:30	07/27/17 10:56	1
N-Propylbenzene	ND		0.0040	0.0017	mg/Kg	☼	07/27/17 05:30	07/27/17 10:56	1
sec-Butylbenzene	ND		0.0040	0.0019	mg/Kg	☼	07/27/17 05:30	07/27/17 10:56	1
tert-Butylbenzene	ND		0.0040	0.0014	mg/Kg	☼	07/27/17 05:30	07/27/17 10:56	1
Tetrachloroethene	ND		0.0040	0.0016	mg/Kg	☼	07/27/17 05:30	07/27/17 10:56	1
Toluene	ND		0.0040	0.0013	mg/Kg	☼	07/27/17 05:30	07/27/17 10:56	1
trans-1,2-Dichloroethene	ND		0.0040	0.0020	mg/Kg	☼	07/27/17 05:30	07/27/17 10:56	1
1,1,1-Trichloroethane	ND		0.0040	0.0020	mg/Kg	☼	07/27/17 05:30	07/27/17 10:56	1
Trichloroethene	ND		0.0040	0.0012	mg/Kg	☼	07/27/17 05:30	07/27/17 10:56	1
1,2,4-Trimethylbenzene	ND		0.0040	0.0011	mg/Kg	☼	07/27/17 05:30	07/27/17 10:56	1
1,3,5-Trimethylbenzene	ND		0.0040	0.0014	mg/Kg	☼	07/27/17 05:30	07/27/17 10:56	1
Vinyl chloride	ND		0.0040	0.0029	mg/Kg	☼	07/27/17 05:30	07/27/17 10:56	1
Xylenes, Total	ND		0.0079	0.0034	mg/Kg	☼	07/27/17 05:30	07/27/17 10:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*63 - 120*	*07/27/17 05:30*	*07/27/17 10:56*	*1*
Dibromofluoromethane (Surr)	*94*		*68 - 121*	*07/27/17 05:30*	*07/27/17 10:56*	*1*
1,2-Dichloroethane-d4 (Surr)	*85*		*52 - 124*	*07/27/17 05:30*	*07/27/17 10:56*	*1*
Toluene-d8 (Surr)	*105*		*72 - 127*	*07/27/17 05:30*	*07/27/17 10:56*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**15.4**		0.1	0.1	%			07/26/17 15:12	1
Percent Solids	**84.6**		0.1	0.1	%			07/26/17 15:12	1

Client Sample ID: WB6-7, S2, C 72517 — Lab Sample ID: 180-68556-9

Date Collected: 07/25/17 16:40 — **Matrix: Solid**
Date Received: 07/26/17 07:30 — **Percent Solids: 82.0**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.032**		0.0082	0.0027	mg/Kg	☼	07/27/17 11:20	07/27/17 19:59	1
Acenaphthylene	**0.042**		0.0082	0.0028	mg/Kg	☼	07/27/17 11:20	07/27/17 19:59	1
Anthracene	**0.10**		0.0082	0.0030	mg/Kg	☼	07/27/17 11:20	07/27/17 19:59	1

Client Sample ID: WB6-7, S2, C 72517 **Lab Sample ID: 180-68556-9**
Date Collected: 07/25/17 16:40 **Matrix: Solid**
Date Received: 07/26/17 07:30 **Percent Solids: 82.0**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	**0.24**		0.0082	0.0032	mg/Kg	☼	07/27/17 11:20	07/27/17 19:59	1
Benzo[a]pyrene	**0.23**		0.0082	0.0034	mg/Kg	☼	07/27/17 11:20	07/27/17 19:59	1
Benzo[b]fluoranthene	**0.28**		0.0082	0.0035	mg/Kg	☼	07/27/17 11:20	07/27/17 19:59	1
Benzo[g,h,i]perylene	**0.24**		0.0082	0.0035	mg/Kg	☼	07/27/17 11:20	07/27/17 19:59	1
Benzo[k]fluoranthene	**0.12**		0.0082	0.0028	mg/Kg	☼	07/27/17 11:20	07/27/17 19:59	1
Chrysene	**0.27**		0.0082	0.0032	mg/Kg	☼	07/27/17 11:20	07/27/17 19:59	1
Dibenz(a,h)anthracene	**0.054**		0.0082	0.0034	mg/Kg	☼	07/27/17 11:20	07/27/17 19:59	1
Dibenzofuran	**0.023**	**J**	0.040	0.0033	mg/Kg	☼	07/27/17 11:20	07/27/17 19:59	1
1,4-Dioxane	ND		0.081	0.0061	mg/Kg	☼	07/27/17 11:20	07/27/17 19:59	1
Fluoranthene	**0.51**		0.0082	0.0032	mg/Kg	☼	07/27/17 11:20	07/27/17 19:59	1
Fluorene	**0.032**		0.0082	0.0029	mg/Kg	☼	07/27/17 11:20	07/27/17 19:59	1
Hexachlorobenzene	ND		0.0082	0.0033	mg/Kg	☼	07/27/17 11:20	07/27/17 19:59	1
Indeno[1,2,3-cd]pyrene	**0.20**		0.0082	0.0031	mg/Kg	☼	07/27/17 11:20	07/27/17 19:59	1
2-Methylphenol	ND		0.040	0.0036	mg/Kg	☼	07/27/17 11:20	07/27/17 19:59	1
Methylphenol, 3 & 4	**0.0055**	**J**	0.040	0.0036	mg/Kg	☼	07/27/17 11:20	07/27/17 19:59	1
Naphthalene	**0.028**		0.0082	0.0029	mg/Kg	☼	07/27/17 11:20	07/27/17 19:59	1
Pentachlorophenol	ND		0.21	0.077	mg/Kg	☼	07/27/17 11:20	07/27/17 19:59	1
Phenanthrene	**0.31**		0.0082	0.0034	mg/Kg	☼	07/27/17 11:20	07/27/17 19:59	1
Phenol	ND		0.040	0.0055	mg/Kg	☼	07/27/17 11:20	07/27/17 19:59	1
Pyrene	**0.38**		0.0082	0.0036	mg/Kg	☼	07/27/17 11:20	07/27/17 19:59	1
Hexachloroethane	ND		40	2.9	ug/Kg	☼	07/27/17 11:20	07/27/17 19:59	1
Nitrobenzene	ND		81	3.1	ug/Kg	☼	07/27/17 11:20	07/27/17 19:59	1
Hexachlorobutadiene	ND		8.2	2.6	ug/Kg	☼	07/27/17 11:20	07/27/17 19:59	1
2,4,5-Trichlorophenol	ND		40	3.9	ug/Kg	☼	07/27/17 11:20	07/27/17 19:59	1
2,4,6-Trichlorophenol	ND		40	3.6	ug/Kg	☼	07/27/17 11:20	07/27/17 19:59	1
2,4-Dinitrotoluene	ND		40	5.4	ug/Kg	☼	07/27/17 11:20	07/27/17 19:59	1
Pyridine	ND		40	3.9	ug/Kg	☼	07/27/17 11:20	07/27/17 19:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*61*		*42 - 100*	*07/27/17 11:20*	*07/27/17 19:59*	*1*
2-Fluorophenol (Surr)	*56*		*21 - 107*	*07/27/17 11:20*	*07/27/17 19:59*	*1*
Nitrobenzene-d5 (Surr)	*53*		*35 - 109*	*07/27/17 11:20*	*07/27/17 19:59*	*1*
Phenol-d5 (Surr)	*55*		*29 - 105*	*07/27/17 11:20*	*07/27/17 19:59*	*1*
Terphenyl-d14 (Surr)	*56*		*36 - 113*	*07/27/17 11:20*	*07/27/17 19:59*	*1*
2,4,6-Tribromophenol (Surr)	*76*		*20 - 134*	*07/27/17 11:20*	*07/27/17 19:59*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.020	0.011	mg/Kg	☼	07/27/17 11:28	07/28/17 09:29	1
PCB-1221	ND		0.020	0.011	mg/Kg	☼	07/27/17 11:28	07/28/17 09:29	1
PCB-1232	ND		0.020	0.0081	mg/Kg	☼	07/27/17 11:28	07/28/17 09:29	1
PCB-1242	ND		0.020	0.016	mg/Kg	☼	07/27/17 11:28	07/28/17 09:29	1
PCB-1248	**0.98**		0.020	0.0097	mg/Kg	☼	07/27/17 11:28	07/28/17 09:29	1
PCB-1254	**0.43**		0.020	0.0089	mg/Kg	☼	07/27/17 11:28	07/28/17 09:29	1
PCB-1260	**0.059**		0.020	0.014	mg/Kg	☼	07/27/17 11:28	07/28/17 09:29	1
PCB-1262	ND		0.020	0.015	mg/Kg	☼	07/27/17 11:28	07/28/17 09:29	1
PCB-1268	ND		0.020	0.0062	mg/Kg	☼	07/27/17 11:28	07/28/17 09:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*90*		*23 - 150*	*07/27/17 11:28*	*07/28/17 09:29*	*1*

Client Sample ID: WB6-7, S2, C 72517 — Lab Sample ID: 180-68556-9

Date Collected: 07/25/17 16:40 — **Matrix: Solid**
Date Received: 07/26/17 07:30 — **Percent Solids: 82.0**

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	94		23 - 150	07/27/17 11:28	07/28/17 09:29	1
Tetrachloro-m-xylene (Surr)	80		27 - 138	07/27/17 11:28	07/28/17 09:29	1
Tetrachloro-m-xylene (Surr)	83		27 - 138	07/27/17 11:28	07/28/17 09:29	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.1		1.2	0.53	mg/Kg	☼	07/27/17 12:44	07/28/17 09:55	1
Barium	68		24	6.5	mg/Kg	☼	07/27/17 12:44	07/28/17 09:55	1
Beryllium	0.31	J	0.48	0.13	mg/Kg	☼	07/27/17 12:44	07/28/17 09:55	1
Cadmium	0.16	J	0.60	0.14	mg/Kg	☼	07/27/17 12:44	07/28/17 09:55	1
Chromium	10		0.60	0.16	mg/Kg	☼	07/27/17 12:44	07/28/17 09:55	1
Copper	35		3.0	0.93	mg/Kg	☼	07/27/17 12:44	07/28/17 09:55	1
Lead	28		1.2	0.40	mg/Kg	☼	07/27/17 12:44	07/28/17 09:55	1
Manganese	400		1.8	0.49	mg/Kg	☼	07/27/17 12:44	07/28/17 09:55	1
Nickel	18		4.8	1.1	mg/Kg	☼	07/27/17 12:44	07/28/17 09:55	1
Selenium	ND		1.2	0.48	mg/Kg	☼	07/27/17 12:44	07/28/17 09:55	1
Silver	ND		0.60	0.20	mg/Kg	☼	07/27/17 12:44	07/28/17 09:55	1
Zinc	55		2.4	1.2	mg/Kg	☼	07/27/17 12:44	07/28/17 09:55	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.033	J	0.042	0.0095	mg/Kg	☼	07/31/17 08:10	07/31/17 11:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	18.0		0.1	0.1	%			07/26/17 15:12	1
Percent Solids	82.0		0.1	0.1	%			07/26/17 15:12	1
Cyanide, Total	0.29	J	0.60	0.18	mg/Kg	☼	07/27/17 11:19	07/27/17 15:10	1

Client Sample ID: DUP 17 72517 — Lab Sample ID: 180-68556-10

Date Collected: 07/25/17 00:00 — **Matrix: Solid**
Date Received: 07/26/17 07:30 — **Percent Solids: 79.1**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.021	0.0033	mg/Kg	☼	07/27/17 05:30	07/27/17 11:18	1
Benzene	ND		0.0052	0.0021	mg/Kg	☼	07/27/17 05:30	07/27/17 11:18	1
2-Butanone (MEK)	ND		0.0052	0.0030	mg/Kg	☼	07/27/17 05:30	07/27/17 11:18	1
Carbon tetrachloride	ND		0.0052	0.0035	mg/Kg	☼	07/27/17 05:30	07/27/17 11:18	1
Chlorobenzene	ND		0.0052	0.0017	mg/Kg	☼	07/27/17 05:30	07/27/17 11:18	1
Chloroform	ND		0.0052	0.0022	mg/Kg	☼	07/27/17 05:30	07/27/17 11:18	1
cis-1,2-Dichloroethene	ND		0.0052	0.0017	mg/Kg	☼	07/27/17 05:30	07/27/17 11:18	1
1,2-Dichlorobenzene	ND		0.0052	0.0042	mg/Kg	☼	07/27/17 05:30	07/27/17 11:18	1
1,3-Dichlorobenzene	ND		0.0052	0.0017	mg/Kg	☼	07/27/17 05:30	07/27/17 11:18	1
1,4-Dichlorobenzene	ND		0.0052	0.0011	mg/Kg	☼	07/27/17 05:30	07/27/17 11:18	1
1,1-Dichloroethane	ND		0.0052	0.0019	mg/Kg	☼	07/27/17 05:30	07/27/17 11:18	1
1,2-Dichloroethane	ND		0.0052	0.0015	mg/Kg	☼	07/27/17 05:30	07/27/17 11:18	1
1,1-Dichloroethene	ND		0.0052	0.0030	mg/Kg	☼	07/27/17 05:30	07/27/17 11:18	1
Ethylbenzene	ND		0.0052	0.0023	mg/Kg	☼	07/27/17 05:30	07/27/17 11:18	1
Methylene Chloride	ND		0.0052	0.0025	mg/Kg	☼	07/27/17 05:30	07/27/17 11:18	1

Client Sample ID: DUP 17 72517 — Lab Sample ID: 180-68556-10

Date Collected: 07/25/17 00:00 — **Matrix: Solid**
Date Received: 07/26/17 07:30 — **Percent Solids: 79.1**

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.0052	0.0039	mg/Kg	☼	07/27/17 05:30	07/27/17 11:18	1
n-Butylbenzene	ND		0.0052	0.0040	mg/Kg	☼	07/27/17 05:30	07/27/17 11:18	1
N-Propylbenzene	ND		0.0052	0.0022	mg/Kg	☼	07/27/17 05:30	07/27/17 11:18	1
sec-Butylbenzene	ND		0.0052	0.0026	mg/Kg	☼	07/27/17 05:30	07/27/17 11:18	1
tert-Butylbenzene	ND		0.0052	0.0019	mg/Kg	☼	07/27/17 05:30	07/27/17 11:18	1
Tetrachloroethene	ND		0.0052	0.0021	mg/Kg	☼	07/27/17 05:30	07/27/17 11:18	1
Toluene	ND		0.0052	0.0018	mg/Kg	☼	07/27/17 05:30	07/27/17 11:18	1
trans-1,2-Dichloroethene	ND		0.0052	0.0027	mg/Kg	☼	07/27/17 05:30	07/27/17 11:18	1
1,1,1-Trichloroethane	ND		0.0052	0.0026	mg/Kg	☼	07/27/17 05:30	07/27/17 11:18	1
Trichloroethene	ND		0.0052	0.0016	mg/Kg	☼	07/27/17 05:30	07/27/17 11:18	1
1,2,4-Trimethylbenzene	ND		0.0052	0.0014	mg/Kg	☼	07/27/17 05:30	07/27/17 11:18	1
1,3,5-Trimethylbenzene	ND		0.0052	0.0018	mg/Kg	☼	07/27/17 05:30	07/27/17 11:18	1
Vinyl chloride	ND		0.0052	0.0039	mg/Kg	☼	07/27/17 05:30	07/27/17 11:18	1
Xylenes, Total	ND		0.010	0.0045	mg/Kg	☼	07/27/17 05:30	07/27/17 11:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*63 - 120*	*07/27/17 05:30*	*07/27/17 11:18*	*1*
Dibromofluoromethane (Surr)	*98*		*68 - 121*	*07/27/17 05:30*	*07/27/17 11:18*	*1*
1,2-Dichloroethane-d4 (Surr)	*89*		*52 - 124*	*07/27/17 05:30*	*07/27/17 11:18*	*1*
Toluene-d8 (Surr)	*108*		*72 - 127*	*07/27/17 05:30*	*07/27/17 11:18*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**20.9**		0.1	0.1	%			07/26/17 15:12	1
Percent Solids	**79.1**		0.1	0.1	%			07/26/17 15:12	1

Client Sample ID: TRIP BLANK — Lab Sample ID: 180-68556-11

Date Collected: 07/25/17 00:00 — **Matrix: Water**
Date Received: 07/26/17 07:30

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**5.1**		5.0	3.1	ug/L			07/27/17 05:26	1
Benzene	ND		1.0	0.18	ug/L			07/27/17 05:26	1
2-Butanone (MEK)	ND		5.0	2.6	ug/L			07/27/17 05:26	1
Carbon tetrachloride	ND		1.0	0.56	ug/L			07/27/17 05:26	1
Chlorobenzene	ND		1.0	0.15	ug/L			07/27/17 05:26	1
Chloroform	ND		1.0	0.27	ug/L			07/27/17 05:26	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			07/27/17 05:26	1
1,2-Dichlorobenzene	ND		1.0	0.23	ug/L			07/27/17 05:26	1
1,3-Dichlorobenzene	ND		1.0	0.21	ug/L			07/27/17 05:26	1
1,4-Dichlorobenzene	ND		1.0	0.24	ug/L			07/27/17 05:26	1
1,1-Dichloroethane	ND		1.0	0.34	ug/L			07/27/17 05:26	1
1,2-Dichloroethane	ND		1.0	0.24	ug/L			07/27/17 05:26	1
1,1-Dichloroethene	ND		1.0	0.32	ug/L			07/27/17 05:26	1
Ethylbenzene	ND		1.0	0.25	ug/L			07/27/17 05:26	1
Methylene Chloride	ND		1.0	0.94	ug/L			07/27/17 05:26	1
Methyl tert-butyl ether	ND		1.0	0.20	ug/L			07/27/17 05:26	1
n-Butylbenzene	ND		1.0	0.22	ug/L			07/27/17 05:26	1
N-Propylbenzene	ND		1.0	0.20	ug/L			07/27/17 05:26	1

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68556-1

Client Sample ID: TRIP BLANK
Date Collected: 07/25/17 00:00
Date Received: 07/26/17 07:30

Lab Sample ID: 180-68556-11
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.22	ug/L			07/27/17 05:26	1
tert-Butylbenzene	ND		1.0	0.17	ug/L			07/27/17 05:26	1
Tetrachloroethene	ND		1.0	0.24	ug/L			07/27/17 05:26	1
Toluene	ND		1.0	0.16	ug/L			07/27/17 05:26	1
trans-1,2-Dichloroethene	ND		1.0	0.20	ug/L			07/27/17 05:26	1
1,1,1-Trichloroethane	ND		1.0	0.27	ug/L			07/27/17 05:26	1
Trichloroethene	ND		1.0	0.20	ug/L			07/27/17 05:26	1
1,2,4-Trimethylbenzene	ND		1.0	0.18	ug/L			07/27/17 05:26	1
1,3,5-Trimethylbenzene	ND		1.0	0.17	ug/L			07/27/17 05:26	1
Vinyl chloride	ND		1.0	0.17	ug/L			07/27/17 05:26	1
Xylenes, Total	ND		2.0	0.27	ug/L			07/27/17 05:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*72 - 120*		*07/27/17 05:26*	*1*
Dibromofluoromethane (Surr)	*86*		*77 - 127*		*07/27/17 05:26*	*1*
1,2-Dichloroethane-d4 (Surr)	*78*		*72 - 134*		*07/27/17 05:26*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*07/27/17 05:26*	*1*

Method: 8260C - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 180-218214/6
Matrix: Water
Analysis Batch: 218214

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		5.0	3.1	ug/L			07/27/17 03:15	1
Benzene	ND		1.0	0.18	ug/L			07/27/17 03:15	1
2-Butanone (MEK)	ND		5.0	2.6	ug/L			07/27/17 03:15	1
Carbon tetrachloride	ND		1.0	0.56	ug/L			07/27/17 03:15	1
Chlorobenzene	ND		1.0	0.15	ug/L			07/27/17 03:15	1
Chloroform	ND		1.0	0.27	ug/L			07/27/17 03:15	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			07/27/17 03:15	1
1,2-Dichlorobenzene	ND		1.0	0.23	ug/L			07/27/17 03:15	1
1,3-Dichlorobenzene	ND		1.0	0.21	ug/L			07/27/17 03:15	1
1,4-Dichlorobenzene	ND		1.0	0.24	ug/L			07/27/17 03:15	1
1,1-Dichloroethane	ND		1.0	0.34	ug/L			07/27/17 03:15	1
1,2-Dichloroethane	ND		1.0	0.24	ug/L			07/27/17 03:15	1
1,1-Dichloroethene	ND		1.0	0.32	ug/L			07/27/17 03:15	1
Ethylbenzene	ND		1.0	0.25	ug/L			07/27/17 03:15	1
Methylene Chloride	ND		1.0	0.94	ug/L			07/27/17 03:15	1
Methyl tert-butyl ether	ND		1.0	0.20	ug/L			07/27/17 03:15	1
n-Butylbenzene	ND		1.0	0.22	ug/L			07/27/17 03:15	1
N-Propylbenzene	ND		1.0	0.20	ug/L			07/27/17 03:15	1
sec-Butylbenzene	ND		1.0	0.22	ug/L			07/27/17 03:15	1
tert-Butylbenzene	ND		1.0	0.17	ug/L			07/27/17 03:15	1
Tetrachloroethene	ND		1.0	0.24	ug/L			07/27/17 03:15	1
Toluene	ND		1.0	0.16	ug/L			07/27/17 03:15	1
trans-1,2-Dichloroethene	ND		1.0	0.20	ug/L			07/27/17 03:15	1
1,1,1-Trichloroethane	ND		1.0	0.27	ug/L			07/27/17 03:15	1
Trichloroethene	ND		1.0	0.20	ug/L			07/27/17 03:15	1
1,2,4-Trimethylbenzene	ND		1.0	0.18	ug/L			07/27/17 03:15	1
1,3,5-Trimethylbenzene	ND		1.0	0.17	ug/L			07/27/17 03:15	1
Vinyl chloride	ND		1.0	0.17	ug/L			07/27/17 03:15	1
Xylenes, Total	ND		2.0	0.27	ug/L			07/27/17 03:15	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*72 - 120*		*07/27/17 03:15*	*1*
Dibromofluoromethane (Surr)	*82*		*77 - 127*		*07/27/17 03:15*	*1*
1,2-Dichloroethane-d4 (Surr)	*75*		*72 - 134*		*07/27/17 03:15*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*07/27/17 03:15*	*1*

Lab Sample ID: LCS 180-218214/3
Matrix: Water
Analysis Batch: 218214

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	20.0	20.1		ug/L		100	10 - 150
Benzene	10.0	10.2		ug/L		102	80 - 121
2-Butanone (MEK)	20.0	20.0		ug/L		100	41 - 150
Carbon tetrachloride	10.0	9.77		ug/L		98	59 - 145
Chlorobenzene	10.0	10.3		ug/L		103	80 - 120
Chloroform	10.0	9.71		ug/L		97	78 - 122
cis-1,2-Dichloroethene	10.0	9.86		ug/L		99	80 - 120

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 180-218214/3
Matrix: Water
Analysis Batch: 218214

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichlorobenzene	10.0	10.1		ug/L		101	80 - 120
1,3-Dichlorobenzene	10.0	10.1		ug/L		101	80 - 120
1,4-Dichlorobenzene	10.0	10.1		ug/L		101	80 - 120
1,1-Dichloroethane	10.0	10.0		ug/L		100	76 - 126
1,2-Dichloroethane	10.0	8.83		ug/L		88	72 - 126
1,1-Dichloroethene	10.0	9.57		ug/L		96	71 - 122
Ethylbenzene	10.0	10.4		ug/L		104	80 - 123
Methylene Chloride	10.0	9.58		ug/L		96	71 - 129
Methyl tert-butyl ether	10.0	9.01		ug/L		90	68 - 124
n-Butylbenzene	10.0	11.2		ug/L		112	75 - 120
N-Propylbenzene	10.0	10.6		ug/L		106	78 - 121
sec-Butylbenzene	10.0	11.3		ug/L		113	80 - 121
tert-Butylbenzene	10.0	11.1		ug/L		111	79 - 120
Tetrachloroethene	10.0	10.1		ug/L		101	80 - 122
Toluene	10.0	11.0		ug/L		110	80 - 125
trans-1,2-Dichloroethene	10.0	9.94		ug/L		99	80 - 121
1,1,1-Trichloroethane	10.0	9.83		ug/L		98	57 - 128
Trichloroethene	10.0	9.85		ug/L		99	79 - 120
1,2,4-Trimethylbenzene	10.0	10.8		ug/L		108	80 - 120
1,3,5-Trimethylbenzene	10.0	11.2		ug/L		112	80 - 122
Vinyl chloride	10.0	10.1		ug/L		101	61 - 138
Xylenes, Total	20.0	21.0		ug/L		105	80 - 123

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*72 - 120*
Dibromofluoromethane (Surr)	*95*		*77 - 127*
1,2-Dichloroethane-d4 (Surr)	*87*		*72 - 134*
Toluene-d8 (Surr)	*112*		*80 - 120*

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 180-218225/7
Matrix: Solid
Analysis Batch: 218225

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.020	0.0032	mg/Kg			07/27/17 08:40	1
Benzene	ND		0.0050	0.0020	mg/Kg			07/27/17 08:40	1
2-Butanone (MEK)	ND		0.0050	0.0029	mg/Kg			07/27/17 08:40	1
Carbon tetrachloride	ND		0.0050	0.0033	mg/Kg			07/27/17 08:40	1
Chlorobenzene	ND		0.0050	0.0016	mg/Kg			07/27/17 08:40	1
Chloroform	ND		0.0050	0.0021	mg/Kg			07/27/17 08:40	1
cis-1,2-Dichloroethene	ND		0.0050	0.0016	mg/Kg			07/27/17 08:40	1
1,2-Dichlorobenzene	ND		0.0050	0.0040	mg/Kg			07/27/17 08:40	1
1,3-Dichlorobenzene	ND		0.0050	0.0016	mg/Kg			07/27/17 08:40	1
1,4-Dichlorobenzene	ND		0.0050	0.0010	mg/Kg			07/27/17 08:40	1
1,1-Dichloroethane	ND		0.0050	0.0018	mg/Kg			07/27/17 08:40	1
1,2-Dichloroethane	ND		0.0050	0.0015	mg/Kg			07/27/17 08:40	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 180-218225/7
Matrix: Solid
Analysis Batch: 218225

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		0.0050	0.0029	mg/Kg			07/27/17 08:40	1
Ethylbenzene	ND		0.0050	0.0022	mg/Kg			07/27/17 08:40	1
Methylene Chloride	ND		0.0050	0.0024	mg/Kg			07/27/17 08:40	1
Methyl tert-butyl ether	ND		0.0050	0.0037	mg/Kg			07/27/17 08:40	1
n-Butylbenzene	ND		0.0050	0.0038	mg/Kg			07/27/17 08:40	1
N-Propylbenzene	ND		0.0050	0.0021	mg/Kg			07/27/17 08:40	1
sec-Butylbenzene	ND		0.0050	0.0024	mg/Kg			07/27/17 08:40	1
tert-Butylbenzene	ND		0.0050	0.0018	mg/Kg			07/27/17 08:40	1
Tetrachloroethene	ND		0.0050	0.0020	mg/Kg			07/27/17 08:40	1
Toluene	ND		0.0050	0.0017	mg/Kg			07/27/17 08:40	1
trans-1,2-Dichloroethene	ND		0.0050	0.0025	mg/Kg			07/27/17 08:40	1
1,1,1-Trichloroethane	ND		0.0050	0.0025	mg/Kg			07/27/17 08:40	1
Trichloroethene	ND		0.0050	0.0015	mg/Kg			07/27/17 08:40	1
1,2,4-Trimethylbenzene	ND		0.0050	0.0013	mg/Kg			07/27/17 08:40	1
1,3,5-Trimethylbenzene	ND		0.0050	0.0017	mg/Kg			07/27/17 08:40	1
Vinyl chloride	ND		0.0050	0.0037	mg/Kg			07/27/17 08:40	1
Xylenes, Total	ND		0.010	0.0043	mg/Kg			07/27/17 08:40	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*63 - 120*		*07/27/17 08:40*	*1*
Dibromofluoromethane (Surr)	*102*		*68 - 121*		*07/27/17 08:40*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*52 - 124*		*07/27/17 08:40*	*1*
Toluene-d8 (Surr)	*103*		*72 - 127*		*07/27/17 08:40*	*1*

Lab Sample ID: LCS 180-218225/3
Matrix: Solid
Analysis Batch: 218225

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0400	0.0431		mg/Kg		108	20 - 150
Benzene	0.0400	0.0402		mg/Kg		101	77 - 120
2-Butanone (MEK)	0.0400	0.0413		mg/Kg		103	35 - 149
Carbon tetrachloride	0.0400	0.0433		mg/Kg		108	69 - 122
Chlorobenzene	0.0400	0.0395		mg/Kg		99	79 - 120
Chloroform	0.0400	0.0421		mg/Kg		105	72 - 120
cis-1,2-Dichloroethene	0.0400	0.0414		mg/Kg		103	80 - 118
1,2-Dichlorobenzene	0.0400	0.0399		mg/Kg		100	71 - 124
1,3-Dichlorobenzene	0.0400	0.0403		mg/Kg		101	75 - 118
1,4-Dichlorobenzene	0.0400	0.0405		mg/Kg		101	77 - 116
1,1-Dichloroethane	0.0400	0.0420		mg/Kg		105	66 - 124
1,2-Dichloroethane	0.0400	0.0407		mg/Kg		102	61 - 127
1,1-Dichloroethene	0.0400	0.0425		mg/Kg		106	59 - 129
Ethylbenzene	0.0400	0.0400		mg/Kg		100	78 - 125
Methylene Chloride	0.0400	0.0417		mg/Kg		104	58 - 127
Methyl tert-butyl ether	0.0400	0.0425		mg/Kg		106	48 - 132
n-Butylbenzene	0.0400	0.0447		mg/Kg		112	59 - 145
N-Propylbenzene	0.0400	0.0419		mg/Kg		105	80 - 120
sec-Butylbenzene	0.0400	0.0436		mg/Kg		109	70 - 130

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 180-218225/3
Matrix: Solid
Analysis Batch: 218225

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
tert-Butylbenzene	0.0400	0.0424		mg/Kg		106	74 - 133
Tetrachloroethene	0.0400	0.0388		mg/Kg		97	78 - 129
Toluene	0.0400	0.0390		mg/Kg		98	78 - 124
trans-1,2-Dichloroethene	0.0400	0.0425		mg/Kg		106	77 - 121
1,1,1-Trichloroethane	0.0400	0.0441		mg/Kg		110	67 - 126
Trichloroethene	0.0400	0.0399		mg/Kg		100	76 - 119
1,2,4-Trimethylbenzene	0.0400	0.0423		mg/Kg		106	80 - 121
1,3,5-Trimethylbenzene	0.0400	0.0422		mg/Kg		106	68 - 133
Vinyl chloride	0.0400	0.0405		mg/Kg		101	63 - 124
Xylenes, Total	0.0800	0.0797		mg/Kg		100	83 - 126

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*63 - 120*
Dibromofluoromethane (Surr)	*102*		*68 - 121*
1,2-Dichloroethane-d4 (Surr)	*102*		*52 - 124*
Toluene-d8 (Surr)	*99*		*72 - 127*

Lab Sample ID: 180-68556-1 MS
Matrix: Solid
Analysis Batch: 218225

Client Sample ID: WB7-8, S5, A 72517
Prep Type: Total/NA
Prep Batch: 218236

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	ND		0.0439	0.0306		mg/Kg	☼	70	20 - 150
Benzene	ND		0.0439	0.0474		mg/Kg	☼	108	77 - 120
2-Butanone (MEK)	ND		0.0439	0.0290		mg/Kg	☼	66	35 - 149
Carbon tetrachloride	ND	F1	0.0439	0.0555	F1	mg/Kg	☼	127	69 - 122
Chlorobenzene	ND		0.0439	0.0468		mg/Kg	☼	107	79 - 120
Chloroform	ND		0.0439	0.0484		mg/Kg	☼	110	72 - 120
cis-1,2-Dichloroethene	ND		0.0439	0.0477		mg/Kg	☼	109	80 - 118
1,2-Dichlorobenzene	ND		0.0439	0.0442		mg/Kg	☼	101	71 - 124
1,3-Dichlorobenzene	ND		0.0439	0.0481		mg/Kg	☼	110	75 - 118
1,4-Dichlorobenzene	ND		0.0439	0.0473		mg/Kg	☼	108	77 - 116
1,1-Dichloroethane	ND		0.0439	0.0497		mg/Kg	☼	113	66 - 124
1,2-Dichloroethane	ND		0.0439	0.0395		mg/Kg	☼	90	61 - 127
1,1-Dichloroethene	ND		0.0439	0.0506		mg/Kg	☼	115	59 - 129
Ethylbenzene	ND		0.0439	0.0493		mg/Kg	☼	112	78 - 125
Methylene Chloride	ND		0.0439	0.0446		mg/Kg	☼	102	58 - 127
Methyl tert-butyl ether	ND		0.0439	0.0366		mg/Kg	☼	83	48 - 132
n-Butylbenzene	ND		0.0439	0.0546		mg/Kg	☼	124	59 - 145
N-Propylbenzene	ND	F1	0.0439	0.0553	F1	mg/Kg	☼	126	80 - 120
sec-Butylbenzene	ND		0.0439	0.0557		mg/Kg	☼	127	70 - 130
tert-Butylbenzene	ND		0.0439	0.0566		mg/Kg	☼	129	74 - 133
Tetrachloroethene	ND		0.0439	0.0497		mg/Kg	☼	113	78 - 129
Toluene	ND		0.0439	0.0488		mg/Kg	☼	111	78 - 124
trans-1,2-Dichloroethene	ND		0.0439	0.0515		mg/Kg	☼	117	77 - 121
1,1,1-Trichloroethane	ND	F1	0.0439	0.0558	F1	mg/Kg	☼	127	67 - 126
Trichloroethene	ND		0.0439	0.0480		mg/Kg	☼	109	76 - 119
1,2,4-Trimethylbenzene	ND	F1	0.0439	0.0532		mg/Kg	☼	121	80 - 121

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 180-68556-1 MS
Matrix: Solid
Analysis Batch: 218225

Client Sample ID: WB7-8, S5, A 72517
Prep Type: Total/NA
Prep Batch: 218236

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,3,5-Trimethylbenzene	ND		0.0439	0.0543		mg/Kg	☼	124	68 - 133
Vinyl chloride	ND		0.0439	0.0483		mg/Kg	☼	110	63 - 124
Xylenes, Total	ND		0.0878	0.0961		mg/Kg	☼	109	83 - 126

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*63 - 120*
Dibromofluoromethane (Surr)	*104*		*68 - 121*
1,2-Dichloroethane-d4 (Surr)	*87*		*52 - 124*
Toluene-d8 (Surr)	*110*		*72 - 127*

Lab Sample ID: 180-68556-1 MSD
Matrix: Solid
Analysis Batch: 218225

Client Sample ID: WB7-8, S5, A 72517
Prep Type: Total/NA
Prep Batch: 218236

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	ND		0.0429	0.0321		mg/Kg	☼	75	20 - 150	5	40
Benzene	ND		0.0429	0.0468		mg/Kg	☼	109	77 - 120	1	20
2-Butanone (MEK)	ND		0.0429	0.0316		mg/Kg	☼	74	35 - 149	8	36
Carbon tetrachloride	ND	F1	0.0429	0.0530	F1	mg/Kg	☼	124	69 - 122	5	22
Chlorobenzene	ND		0.0429	0.0463		mg/Kg	☼	108	79 - 120	1	20
Chloroform	ND		0.0429	0.0484		mg/Kg	☼	113	72 - 120	0	25
cis-1,2-Dichloroethene	ND		0.0429	0.0472		mg/Kg	☼	110	80 - 118	1	20
1,2-Dichlorobenzene	ND		0.0429	0.0447		mg/Kg	☼	104	71 - 124	1	22
1,3-Dichlorobenzene	ND		0.0429	0.0477		mg/Kg	☼	111	75 - 118	1	20
1,4-Dichlorobenzene	ND		0.0429	0.0472		mg/Kg	☼	110	77 - 116	0	20
1,1-Dichloroethane	ND		0.0429	0.0492		mg/Kg	☼	115	66 - 124	1	23
1,2-Dichloroethane	ND		0.0429	0.0408		mg/Kg	☼	95	61 - 127	3	23
1,1-Dichloroethene	ND		0.0429	0.0504		mg/Kg	☼	118	59 - 129	0	25
Ethylbenzene	ND		0.0429	0.0482		mg/Kg	☼	113	78 - 125	2	21
Methylene Chloride	ND		0.0429	0.0447		mg/Kg	☼	104	58 - 127	0	28
Methyl tert-butyl ether	ND		0.0429	0.0391		mg/Kg	☼	91	48 - 132	7	36
n-Butylbenzene	ND		0.0429	0.0519		mg/Kg	☼	121	59 - 145	5	24
N-Propylbenzene	ND	F1	0.0429	0.0532	F1	mg/Kg	☼	124	80 - 120	4	20
sec-Butylbenzene	ND		0.0429	0.0533		mg/Kg	☼	124	70 - 130	4	21
tert-Butylbenzene	ND		0.0429	0.0546		mg/Kg	☼	127	74 - 133	4	22
Tetrachloroethene	ND		0.0429	0.0472		mg/Kg	☼	110	78 - 129	5	20
Toluene	ND		0.0429	0.0480		mg/Kg	☼	112	78 - 124	2	21
trans-1,2-Dichloroethene	ND		0.0429	0.0499		mg/Kg	☼	116	77 - 121	3	20
1,1,1-Trichloroethane	ND	F1	0.0429	0.0529		mg/Kg	☼	123	67 - 126	5	31
Trichloroethene	ND		0.0429	0.0469		mg/Kg	☼	110	76 - 119	2	21
1,2,4-Trimethylbenzene	ND	F1	0.0429	0.0525	F1	mg/Kg	☼	123	80 - 121	1	20
1,3,5-Trimethylbenzene	ND		0.0429	0.0533		mg/Kg	☼	124	68 - 133	2	21
Vinyl chloride	ND		0.0429	0.0478		mg/Kg	☼	112	63 - 124	1	27
Xylenes, Total	ND		0.0857	0.0965		mg/Kg	☼	113	83 - 126	0	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*63 - 120*

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 180-68556-1 MSD
Matrix: Solid
Analysis Batch: 218225

Client Sample ID: WB7-8, S5, A 72517
Prep Type: Total/NA
Prep Batch: 218236

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Dibromofluoromethane (Surr)	*101*		*68 - 121*
1,2-Dichloroethane-d4 (Surr)	*89*		*52 - 124*
Toluene-d8 (Surr)	*106*		*72 - 127*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Lab Sample ID: MB 180-218278/1-A
Matrix: Solid
Analysis Batch: 218265

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 218278

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0067	0.0022	mg/Kg		07/27/17 11:20	07/27/17 17:17	1
Acenaphthylene	ND		0.0067	0.0023	mg/Kg		07/27/17 11:20	07/27/17 17:17	1
Anthracene	ND		0.0067	0.0025	mg/Kg		07/27/17 11:20	07/27/17 17:17	1
Benzo[a]anthracene	ND		0.0067	0.0026	mg/Kg		07/27/17 11:20	07/27/17 17:17	1
Benzo[a]pyrene	ND		0.0067	0.0028	mg/Kg		07/27/17 11:20	07/27/17 17:17	1
Benzo[b]fluoranthene	ND		0.0067	0.0029	mg/Kg		07/27/17 11:20	07/27/17 17:17	1
Benzo[g,h,i]perylene	ND		0.0067	0.0029	mg/Kg		07/27/17 11:20	07/27/17 17:17	1
Benzo[k]fluoranthene	ND		0.0067	0.0023	mg/Kg		07/27/17 11:20	07/27/17 17:17	1
Chrysene	ND		0.0067	0.0026	mg/Kg		07/27/17 11:20	07/27/17 17:17	1
Dibenz(a,h)anthracene	ND		0.0067	0.0028	mg/Kg		07/27/17 11:20	07/27/17 17:17	1
Dibenzofuran	ND		0.033	0.0027	mg/Kg		07/27/17 11:20	07/27/17 17:17	1
1,4-Dioxane	ND		0.067	0.0050	mg/Kg		07/27/17 11:20	07/27/17 17:17	1
Fluoranthene	ND		0.0067	0.0026	mg/Kg		07/27/17 11:20	07/27/17 17:17	1
Fluorene	ND		0.0067	0.0024	mg/Kg		07/27/17 11:20	07/27/17 17:17	1
Hexachlorobenzene	ND		0.0067	0.0027	mg/Kg		07/27/17 11:20	07/27/17 17:17	1
Indeno[1,2,3-cd]pyrene	ND		0.0067	0.0026	mg/Kg		07/27/17 11:20	07/27/17 17:17	1
2-Methylphenol	ND		0.033	0.0029	mg/Kg		07/27/17 11:20	07/27/17 17:17	1
Methylphenol, 3 & 4	ND		0.033	0.0030	mg/Kg		07/27/17 11:20	07/27/17 17:17	1
Naphthalene	ND		0.0067	0.0024	mg/Kg		07/27/17 11:20	07/27/17 17:17	1
Pentachlorophenol	ND		0.17	0.063	mg/Kg		07/27/17 11:20	07/27/17 17:17	1
Phenanthrene	ND		0.0067	0.0028	mg/Kg		07/27/17 11:20	07/27/17 17:17	1
Phenol	ND		0.033	0.0045	mg/Kg		07/27/17 11:20	07/27/17 17:17	1
Pyrene	ND		0.0067	0.0030	mg/Kg		07/27/17 11:20	07/27/17 17:17	1
Hexachloroethane	ND		33	2.4	ug/Kg		07/27/17 11:20	07/27/17 17:17	1
Nitrobenzene	ND		67	2.5	ug/Kg		07/27/17 11:20	07/27/17 17:17	1
Hexachlorobutadiene	ND		6.7	2.1	ug/Kg		07/27/17 11:20	07/27/17 17:17	1
2,4,5-Trichlorophenol	ND		33	3.2	ug/Kg		07/27/17 11:20	07/27/17 17:17	1
2,4,6-Trichlorophenol	ND		33	2.9	ug/Kg		07/27/17 11:20	07/27/17 17:17	1
2,4-Dinitrotoluene	ND		33	4.4	ug/Kg		07/27/17 11:20	07/27/17 17:17	1
Pyridine	ND		33	3.2	ug/Kg		07/27/17 11:20	07/27/17 17:17	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	*54*		*42 - 100*	*07/27/17 11:20*	*07/27/17 17:17*	*1*
2-Fluorophenol (Surr)	*57*		*21 - 107*	*07/27/17 11:20*	*07/27/17 17:17*	*1*
Nitrobenzene-d5 (Surr)	*50*		*35 - 109*	*07/27/17 11:20*	*07/27/17 17:17*	*1*
Phenol-d5 (Surr)	*53*		*29 - 105*	*07/27/17 11:20*	*07/27/17 17:17*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: MB 180-218278/1-A
Matrix: Solid
Analysis Batch: 218265

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 218278

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14 (Surr)	*54*		*36 - 113*	*07/27/17 11:20*	*07/27/17 17:17*	*1*
2,4,6-Tribromophenol (Surr)	*66*		*20 - 134*	*07/27/17 11:20*	*07/27/17 17:17*	*1*

Lab Sample ID: LCS 180-218278/2-A
Matrix: Solid
Analysis Batch: 218265

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 218278

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	0.667	0.341		mg/Kg		51	39 - 100
Acenaphthylene	0.667	0.351		mg/Kg		53	42 - 100
Anthracene	0.667	0.364		mg/Kg		55	43 - 100
Benzo[a]anthracene	0.667	0.369		mg/Kg		55	43 - 100
Benzo[a]pyrene	0.667	0.374		mg/Kg		56	43 - 100
Benzo[b]fluoranthene	0.667	0.350		mg/Kg		53	40 - 100
Benzo[g,h,i]perylene	0.667	0.422		mg/Kg		63	41 - 102
Benzo[k]fluoranthene	0.667	0.346		mg/Kg		52	44 - 100
Chrysene	0.667	0.390		mg/Kg		58	44 - 100
Dibenz(a,h)anthracene	0.667	0.414		mg/Kg		62	40 - 104
Dibenzofuran	0.667	0.380		mg/Kg		57	42 - 100
1,4-Dioxane	0.667	0.404		mg/Kg		61	19 - 107
Fluoranthene	0.667	0.404		mg/Kg		61	41 - 104
Fluorene	0.667	0.374		mg/Kg		56	41 - 100
Hexachlorobenzene	0.667	0.383		mg/Kg		57	43 - 100
Indeno[1,2,3-cd]pyrene	0.667	0.413		mg/Kg		62	41 - 104
2-Methylphenol	0.667	0.369		mg/Kg		55	38 - 100
Methylphenol, 3 & 4	0.667	0.373		mg/Kg		56	40 - 100
Naphthalene	0.667	0.351		mg/Kg		53	38 - 100
Pentachlorophenol	1.33	0.723		mg/Kg		54	34 - 102
Phenanthrene	0.667	0.355		mg/Kg		53	41 - 100
Phenol	0.667	0.357		mg/Kg		54	36 - 100
Pyrene	0.667	0.352		mg/Kg		53	42 - 100
Hexachloroethane	667	364		ug/Kg		55	35 - 100
Nitrobenzene	667	310		ug/Kg		47	34 - 100
Hexachlorobutadiene	667	425		ug/Kg		64	35 - 100
2,4,5-Trichlorophenol	667	387		ug/Kg		58	42 - 100
2,4,6-Trichlorophenol	667	380		ug/Kg		57	41 - 103
2,4-Dinitrotoluene	667	437		ug/Kg		66	42 - 110
Pyridine	1330	863		ug/Kg		65	25 - 119

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	*48*		*42 - 100*
2-Fluorophenol (Surr)	*58*		*21 - 107*
Nitrobenzene-d5 (Surr)	*45*		*35 - 109*
Phenol-d5 (Surr)	*54*		*29 - 105*
Terphenyl-d14 (Surr)	*54*		*36 - 113*
2,4,6-Tribromophenol (Surr)	*63*		*20 - 134*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: 180-68556-3 MS
Matrix: Solid
Analysis Batch: 218265

Client Sample ID: WB7-8, S5, C 72517
Prep Type: Total/NA
Prep Batch: 218278

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	0.0091	F2	0.885	0.357		mg/Kg	☼	39	39 - 100
Acenaphthylene	0.038	F2 F1	0.885	0.393	F1	mg/Kg	☼	40	42 - 100
Anthracene	0.036	F2 F1	0.885	0.398	F1	mg/Kg	☼	41	43 - 100
Benzo[a]anthracene	0.097	F2 F1	0.885	0.471	F1	mg/Kg	☼	42	43 - 100
Benzo[a]pyrene	0.10	F2	0.885	0.480		mg/Kg	☼	43	43 - 100
Benzo[b]fluoranthene	0.14	F2 F1	0.885	0.475	F1	mg/Kg	☼	38	40 - 100
Benzo[g,h,i]perylene	0.096	F2	0.885	0.561		mg/Kg	☼	52	41 - 102
Benzo[k]fluoranthene	0.051	F2 F1	0.885	0.424	F1	mg/Kg	☼	42	44 - 100
Chrysene	0.11	F2	0.885	0.509		mg/Kg	☼	44	44 - 100
Dibenz(a,h)anthracene	0.024	F2	0.885	0.442		mg/Kg	☼	47	40 - 104
Dibenzofuran	0.0075	J F2	0.885	0.383		mg/Kg	☼	42	42 - 100
1,4-Dioxane	ND	F2	0.885	0.407		mg/Kg	☼	46	19 - 107
Fluoranthene	0.18	F2	0.885	0.563		mg/Kg	☼	43	41 - 104
Fluorene	0.011	F2	0.885	0.391		mg/Kg	☼	43	41 - 100
Hexachlorobenzene	ND	F2	0.885	0.382		mg/Kg	☼	43	43 - 100
Indeno[1,2,3-cd]pyrene	0.082	F2	0.885	0.524		mg/Kg	☼	50	41 - 104
2-Methylphenol	ND	F2	0.885	0.390		mg/Kg	☼	44	38 - 100
Methylphenol, 3 & 4	0.012	J F2	0.885	0.390		mg/Kg	☼	43	40 - 100
Naphthalene	0.015	F2	0.885	0.396		mg/Kg	☼	43	38 - 100
Pentachlorophenol	ND	F2	1.77	0.610		mg/Kg	☼	34	34 - 102
Phenanthrene	0.085	F2 F1	0.885	0.404	F1	mg/Kg	☼	36	41 - 100
Phenol	ND	F2	0.885	0.362		mg/Kg	☼	41	36 - 100
Pyrene	0.15	F2 F1	0.885	0.477	F1	mg/Kg	☼	37	42 - 100
Hexachloroethane	ND	F2	885	401		ug/Kg	☼	45	35 - 100
Nitrobenzene	ND	F2	885	330		ug/Kg	☼	37	34 - 100
Hexachlorobutadiene	ND	F2	885	451		ug/Kg	☼	51	35 - 100
2,4,5-Trichlorophenol	ND	F2	885	385		ug/Kg	☼	43	42 - 100
2,4,6-Trichlorophenol	ND	F2	885	381		ug/Kg	☼	43	41 - 103
2,4-Dinitrotoluene	ND	F2	885	417		ug/Kg	☼	47	42 - 110
Pyridine	ND	F2 F1	1770	399	F1	ug/Kg	☼	23	25 - 119

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl	*45*		*42 - 100*
2-Fluorophenol (Surr)	*54*		*21 - 107*
Nitrobenzene-d5 (Surr)	*43*		*35 - 109*
Phenol-d5 (Surr)	*49*		*29 - 105*
Terphenyl-d14 (Surr)	*44*		*36 - 113*
2,4,6-Tribromophenol (Surr)	*60*		*20 - 134*

Lab Sample ID: 180-68556-3 MSD
Matrix: Solid
Analysis Batch: 218265

Client Sample ID: WB7-8, S5, C 72517
Prep Type: Total/NA
Prep Batch: 218278

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	0.0091	F2	0.885	0.531	F2	mg/Kg	☼	59	39 - 100	39	20
Acenaphthylene	0.038	F2 F1	0.885	0.576	F2	mg/Kg	☼	61	42 - 100	38	20
Anthracene	0.036	F2 F1	0.885	0.613	F2	mg/Kg	☼	65	43 - 100	43	20
Benzo[a]anthracene	0.097	F2 F1	0.885	0.681	F2	mg/Kg	☼	66	43 - 100	36	20

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: 180-68556-3 MSD
Matrix: Solid
Analysis Batch: 218265

Client Sample ID: WB7-8, S5, C 72517
Prep Type: Total/NA
Prep Batch: 218278

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzo[a]pyrene	0.10	F2	0.885	0.695	F2	mg/Kg	☼	67	43 - 100	37	20
Benzo[b]fluoranthene	0.14	F2 F1	0.885	0.664	F2	mg/Kg	☼	59	40 - 100	33	20
Benzo[g,h,i]perylene	0.096	F2	0.885	0.858	F2	mg/Kg	☼	86	41 - 102	42	20
Benzo[k]fluoranthene	0.051	F2 F1	0.885	0.588	F2	mg/Kg	☼	61	44 - 100	33	20
Chrysene	0.11	F2	0.885	0.722	F2	mg/Kg	☼	69	44 - 100	35	20
Dibenz(a,h)anthracene	0.024	F2	0.885	0.728	F2	mg/Kg	☼	79	40 - 104	49	26
Dibenzofuran	0.0075	J F2	0.885	0.570	F2	mg/Kg	☼	64	42 - 100	39	23
1,4-Dioxane	ND	F2	0.885	0.530	F2	mg/Kg	☼	60	19 - 107	26	20
Fluoranthene	0.18	F2	0.885	0.793	F2	mg/Kg	☼	69	41 - 104	34	20
Fluorene	0.011	F2	0.885	0.580	F2	mg/Kg	☼	64	41 - 100	39	21
Hexachlorobenzene	ND	F2	0.885	0.594	F2	mg/Kg	☼	67	43 - 100	43	21
Indeno[1,2,3-cd]pyrene	0.082	F2	0.885	0.802	F2	mg/Kg	☼	81	41 - 104	42	25
2-Methylphenol	ND	F2	0.885	0.553	F2	mg/Kg	☼	62	38 - 100	35	20
Methylphenol, 3 & 4	0.012	J F2	0.885	0.585	F2	mg/Kg	☼	65	40 - 100	40	20
Naphthalene	0.015	F2	0.885	0.531	F2	mg/Kg	☼	58	38 - 100	29	20
Pentachlorophenol	ND	F2	1.77	1.16	F2	mg/Kg	☼	66	34 - 102	62	20
Phenanthrene	0.085	F2 F1	0.885	0.634	F2	mg/Kg	☼	62	41 - 100	44	20
Phenol	ND	F2	0.885	0.507	F2	mg/Kg	☼	57	36 - 100	33	20
Pyrene	0.15	F2 F1	0.885	0.672	F2	mg/Kg	☼	59	42 - 100	34	21
Hexachloroethane	ND	F2	885	544	F2	ug/Kg	☼	61	35 - 100	30	20
Nitrobenzene	ND	F2	885	454	F2	ug/Kg	☼	51	34 - 100	32	20
Hexachlorobutadiene	ND	F2	885	609	F2	ug/Kg	☼	69	35 - 100	30	20
2,4,5-Trichlorophenol	ND	F2	885	605	F2	ug/Kg	☼	68	42 - 100	45	22
2,4,6-Trichlorophenol	ND	F2	885	575	F2	ug/Kg	☼	65	41 - 103	41	25
2,4-Dinitrotoluene	ND	F2	885	640	F2	ug/Kg	☼	72	42 - 110	42	21
Pyridine	ND	F2 F1	1770	901	F2	ug/Kg	☼	51	25 - 119	77	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl	*58*		*42 - 100*
2-Fluorophenol (Surr)	*64*		*21 - 107*
Nitrobenzene-d5 (Surr)	*53*		*35 - 109*
Phenol-d5 (Surr)	*60*		*29 - 105*
Terphenyl-d14 (Surr)	*59*		*36 - 113*
2,4,6-Tribromophenol (Surr)	*80*		*20 - 134*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 180-218279/1-A
Matrix: Solid
Analysis Batch: 218352

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 218279

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.017	0.0088	mg/Kg		07/27/17 11:25	07/28/17 07:45	1
PCB-1221	ND		0.017	0.0086	mg/Kg		07/27/17 11:25	07/28/17 07:45	1
PCB-1232	ND		0.017	0.0066	mg/Kg		07/27/17 11:25	07/28/17 07:45	1
PCB-1242	ND		0.017	0.013	mg/Kg		07/27/17 11:25	07/28/17 07:45	1
PCB-1248	ND		0.017	0.0080	mg/Kg		07/27/17 11:25	07/28/17 07:45	1
PCB-1254	ND		0.017	0.0073	mg/Kg		07/27/17 11:25	07/28/17 07:45	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: MB 180-218279/1-A
Matrix: Solid
Analysis Batch: 218352

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 218279

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1260	ND		0.017	0.011	mg/Kg		07/27/17 11:25	07/28/17 07:45	1
PCB-1262	ND		0.017	0.012	mg/Kg		07/27/17 11:25	07/28/17 07:45	1
PCB-1268	ND		0.017	0.0051	mg/Kg		07/27/17 11:25	07/28/17 07:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*87*		*23 - 150*	*07/27/17 11:25*	*07/28/17 07:45*	*1*
DCB Decachlorobiphenyl (Surr)	*95*		*23 - 150*	*07/27/17 11:25*	*07/28/17 07:45*	*1*
Tetrachloro-m-xylene (Surr)	*83*		*27 - 138*	*07/27/17 11:25*	*07/28/17 07:45*	*1*
Tetrachloro-m-xylene (Surr)	*86*		*27 - 138*	*07/27/17 11:25*	*07/28/17 07:45*	*1*

Lab Sample ID: LCS 180-218279/2-A
Matrix: Solid
Analysis Batch: 218352

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 218279

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			1.33	1.06		mg/Kg		79	52 - 126		
PCB-1260			1.33	1.12		mg/Kg		84	50 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*83*		*23 - 150*
DCB Decachlorobiphenyl (Surr)	*89*		*23 - 150*
Tetrachloro-m-xylene (Surr)	*75*		*27 - 138*
Tetrachloro-m-xylene (Surr)	*79*		*27 - 138*

Lab Sample ID: 180-68556-3 MS
Matrix: Solid
Analysis Batch: 218352

Client Sample ID: WB7-8, S5, C 72517
Prep Type: Total/NA
Prep Batch: 218279

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016	ND		1.77	1.50		mg/Kg	☼	84	52 - 126		
PCB-1260	0.038		1.77	1.43		mg/Kg	☼	79	50 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*87*		*23 - 150*
DCB Decachlorobiphenyl (Surr)	*91*		*23 - 150*
Tetrachloro-m-xylene (Surr)	*80*		*27 - 138*
Tetrachloro-m-xylene (Surr)	*84*		*27 - 138*

Lab Sample ID: 180-68556-3 MSD
Matrix: Solid
Analysis Batch: 218352

Client Sample ID: WB7-8, S5, C 72517
Prep Type: Total/NA
Prep Batch: 218279

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	ND		1.77	1.67		mg/Kg	☼	94	52 - 126	11	20
PCB-1260	0.038		1.77	1.48		mg/Kg	☼	82	50 - 130	3	21

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 180-68556-3 MSD
Matrix: Solid
Analysis Batch: 218352

Client Sample ID: WB7-8, S5, C 72517
Prep Type: Total/NA
Prep Batch: 218279

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*84*		*23 - 150*
DCB Decachlorobiphenyl (Surr)	*90*		*23 - 150*
Tetrachloro-m-xylene (Surr)	*79*		*27 - 138*
Tetrachloro-m-xylene (Surr)	*84*		*27 - 138*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 180-218293/1-A
Matrix: Solid
Analysis Batch: 218421

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 218293

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		1.0	0.44	mg/Kg		07/27/17 12:44	07/28/17 08:35	1
Barium	ND		20	5.4	mg/Kg		07/27/17 12:44	07/28/17 08:35	1
Beryllium	ND		0.40	0.10	mg/Kg		07/27/17 12:44	07/28/17 08:35	1
Cadmium	ND		0.50	0.11	mg/Kg		07/27/17 12:44	07/28/17 08:35	1
Chromium	ND		0.50	0.13	mg/Kg		07/27/17 12:44	07/28/17 08:35	1
Copper	ND		2.5	0.77	mg/Kg		07/27/17 12:44	07/28/17 08:35	1
Lead	ND		1.0	0.33	mg/Kg		07/27/17 12:44	07/28/17 08:35	1
Manganese	ND		1.5	0.41	mg/Kg		07/27/17 12:44	07/28/17 08:35	1
Nickel	ND		4.0	0.90	mg/Kg		07/27/17 12:44	07/28/17 08:35	1
Selenium	ND		1.0	0.40	mg/Kg		07/27/17 12:44	07/28/17 08:35	1
Silver	ND		0.50	0.17	mg/Kg		07/27/17 12:44	07/28/17 08:35	1
Zinc	ND		2.0	1.0	mg/Kg		07/27/17 12:44	07/28/17 08:35	1

Lab Sample ID: LCS 180-218293/2-A
Matrix: Solid
Analysis Batch: 218421

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 218293

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	50.0	51.2		mg/Kg		102	80 - 120
Barium	200	202		mg/Kg		101	80 - 120
Beryllium	5.00	5.06		mg/Kg		101	80 - 120
Cadmium	5.00	5.12		mg/Kg		102	80 - 120
Chromium	20.0	19.2		mg/Kg		96	80 - 120
Copper	25.0	24.7		mg/Kg		99	80 - 120
Lead	50.0	48.3		mg/Kg		97	80 - 120
Manganese	50.0	49.9		mg/Kg		100	80 - 120
Nickel	50.0	50.7		mg/Kg		101	80 - 120
Selenium	50.0	49.9		mg/Kg		100	80 - 120
Silver	5.00	4.95		mg/Kg		99	80 - 120
Zinc	50.0	49.5		mg/Kg		99	80 - 120

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 180-68556-3 MS
Matrix: Solid
Analysis Batch: 218421

Client Sample ID: WB7-8, S5, C 72517
Prep Type: Total/NA
Prep Batch: 218293

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	5.6		69.9	65.9		mg/Kg	☼	86	75 - 125
Barium	90		280	346		mg/Kg	☼	92	75 - 125
Beryllium	0.38	J	6.99	6.31		mg/Kg	☼	85	75 - 125
Cadmium	0.26	J	6.99	6.16		mg/Kg	☼	84	75 - 125
Chromium	9.8		28.0	36.1		mg/Kg	☼	94	75 - 125
Copper	21		35.0	48.8		mg/Kg	☼	79	75 - 125
Lead	22		69.9	85.4		mg/Kg	☼	91	75 - 125
Manganese	420		69.9	561	4	mg/Kg	☼	200	75 - 125
Nickel	18		69.9	86.9		mg/Kg	☼	98	75 - 125
Selenium	ND		69.9	57.0		mg/Kg	☼	82	75 - 125
Silver	ND		6.99	5.71		mg/Kg	☼	82	75 - 125
Zinc	59		69.9	122		mg/Kg	☼	89	75 - 125

Lab Sample ID: 180-68556-3 MSD
Matrix: Solid
Analysis Batch: 218421

Client Sample ID: WB7-8, S5, C 72517
Prep Type: Total/NA
Prep Batch: 218293

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	5.6		69.9	67.2		mg/Kg	☼	88	75 - 125	2	20
Barium	90		280	330		mg/Kg	☼	86	75 - 125	5	20
Beryllium	0.38	J	6.99	6.37		mg/Kg	☼	86	75 - 125	1	20
Cadmium	0.26	J	6.99	6.23		mg/Kg	☼	86	75 - 125	1	20
Chromium	9.8		28.0	34.7		mg/Kg	☼	89	75 - 125	4	20
Copper	21		35.0	47.5		mg/Kg	☼	76	75 - 125	3	20
Lead	22		69.9	85.9		mg/Kg	☼	91	75 - 125	1	20
Manganese	420		69.9	469	4	mg/Kg	☼	68	75 - 125	18	20
Nickel	18		69.9	82.1		mg/Kg	☼	92	75 - 125	6	20
Selenium	ND		69.9	57.6		mg/Kg	☼	82	75 - 125	1	20
Silver	ND		6.99	5.89		mg/Kg	☼	84	75 - 125	3	20
Zinc	59		69.9	117		mg/Kg	☼	83	75 - 125	4	20

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 180-218383/1-A
Matrix: Solid
Analysis Batch: 218639

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 218383

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.033	0.0074	mg/Kg		07/31/17 08:10	07/31/17 11:38	1

Lab Sample ID: LCS 180-218383/2-A
Matrix: Solid
Analysis Batch: 218639

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 218383

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.417	0.461		mg/Kg		111	80 - 120

Method: 7471B - Mercury (CVAA) (Continued)

Lab Sample ID: 180-68556-3 MS
Matrix: Solid
Analysis Batch: 218639

Client Sample ID: WB7-8, S5, C 72517
Prep Type: Total/NA
Prep Batch: 218383

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.036	J F1	0.237	0.319		mg/Kg	☼	119	80 - 120

Lab Sample ID: 180-68556-3 MSD
Matrix: Solid
Analysis Batch: 218639

Client Sample ID: WB7-8, S5, C 72517
Prep Type: Total/NA
Prep Batch: 218383

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.036	J F1	0.208	0.288	F1	mg/Kg	☼	122	80 - 120	10	20

Method: 2540G - SM 2540G

Lab Sample ID: 180-68556-3 DU
Matrix: Solid
Analysis Batch: 218185

Client Sample ID: WB7-8, S5, C 72517
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	24.7		21.1		%		16	20
Percent Solids	75.3		78.9		%		5	20

Lab Sample ID: 180-68556-6 DU
Matrix: Solid
Analysis Batch: 218185

Client Sample ID: WB6-7, S1, C 72517
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	22.8		25.2		%		10	20
Percent Solids	77.2		74.8		%		3	20

Method: 9014 - Cyanide

Lab Sample ID: MB 180-218282/4-A
Matrix: Solid
Analysis Batch: 218335

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 218282

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.50	0.15	mg/Kg		07/27/17 11:19	07/27/17 14:28	1

Lab Sample ID: HLCS 180-218282/2-A
Matrix: Solid
Analysis Batch: 218335

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 218282

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.250	0.236		mg/Kg		94	90 - 110

Lab Sample ID: LCS 180-218282/3-A
Matrix: Solid
Analysis Batch: 218335

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 218282

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	163	117		mg/Kg		72	38 - 162

QC Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68556-1

Lab Sample ID: LLCS 180-218282/1-A
Matrix: Solid
Analysis Batch: 218335

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 218282

Analyte			Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cyanide, Total			0.0500	0.0497		mg/Kg		99	90 - 110		

Lab Sample ID: 180-68556-3 MS
Matrix: Solid
Analysis Batch: 218335

Client Sample ID: WB7-8, S5, C 72517
Prep Type: Total/NA
Prep Batch: 218282

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cyanide, Total	0.38	J	6.51	6.58		mg/Kg	☼	95	75 - 125		

Lab Sample ID: 180-68556-3 MSD
Matrix: Solid
Analysis Batch: 218335

Client Sample ID: WB7-8, S5, C 72517
Prep Type: Total/NA
Prep Batch: 218282

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cyanide, Total	0.38	J	6.64	6.82		mg/Kg	☼	97	75 - 125	4	20

GC/MS VOA

Analysis Batch: 218214

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68556-11	TRIP BLANK	Total/NA	Water	8260C	
MB 180-218214/6	Method Blank	Total/NA	Water	8260C	
LCS 180-218214/3	Lab Control Sample	Total/NA	Water	8260C	

Analysis Batch: 218225

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68556-1	WB7-8, S5, A 72517	Total/NA	Solid	8260C	218236
180-68556-2	WB7-8, S5, B 72517	Total/NA	Solid	8260C	218236
180-68556-4	WB6-7, S1, A 72517	Total/NA	Solid	8260C	218236
180-68556-5	WB6-7, S1, B 72517	Total/NA	Solid	8260C	218236
180-68556-7	WB6-7, S2, A 72517	Total/NA	Solid	8260C	218236
180-68556-8	WB6-7, S2, B 72517	Total/NA	Solid	8260C	218236
180-68556-10	DUP 17 72517	Total/NA	Solid	8260C	218236
MB 180-218225/7	Method Blank	Total/NA	Solid	8260C	
LCS 180-218225/3	Lab Control Sample	Total/NA	Solid	8260C	
180-68556-1 MS	WB7-8, S5, A 72517	Total/NA	Solid	8260C	218236
180-68556-1 MSD	WB7-8, S5, A 72517	Total/NA	Solid	8260C	218236

Prep Batch: 218236

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68556-1	WB7-8, S5, A 72517	Total/NA	Solid	5035	
180-68556-2	WB7-8, S5, B 72517	Total/NA	Solid	5035	
180-68556-4	WB6-7, S1, A 72517	Total/NA	Solid	5035	
180-68556-5	WB6-7, S1, B 72517	Total/NA	Solid	5035	
180-68556-7	WB6-7, S2, A 72517	Total/NA	Solid	5035	
180-68556-8	WB6-7, S2, B 72517	Total/NA	Solid	5035	
180-68556-10	DUP 17 72517	Total/NA	Solid	5035	
180-68556-1 MS	WB7-8, S5, A 72517	Total/NA	Solid	5035	
180-68556-1 MSD	WB7-8, S5, A 72517	Total/NA	Solid	5035	

GC/MS Semi VOA

Analysis Batch: 218265

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68556-3	WB7-8, S5, C 72517	Total/NA	Solid	8270D LL	218278
180-68556-6	WB6-7, S1, C 72517	Total/NA	Solid	8270D LL	218278
180-68556-9	WB6-7, S2, C 72517	Total/NA	Solid	8270D LL	218278
MB 180-218278/1-A	Method Blank	Total/NA	Solid	8270D LL	218278
LCS 180-218278/2-A	Lab Control Sample	Total/NA	Solid	8270D LL	218278
180-68556-3 MS	WB7-8, S5, C 72517	Total/NA	Solid	8270D LL	218278
180-68556-3 MSD	WB7-8, S5, C 72517	Total/NA	Solid	8270D LL	218278

Prep Batch: 218278

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68556-3	WB7-8, S5, C 72517	Total/NA	Solid	3541	
180-68556-6	WB6-7, S1, C 72517	Total/NA	Solid	3541	
180-68556-9	WB6-7, S2, C 72517	Total/NA	Solid	3541	
MB 180-218278/1-A	Method Blank	Total/NA	Solid	3541	
LCS 180-218278/2-A	Lab Control Sample	Total/NA	Solid	3541	
180-68556-3 MS	WB7-8, S5, C 72517	Total/NA	Solid	3541	

GC/MS Semi VOA (Continued)

Prep Batch: 218278 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68556-3 MSD	WB7-8, S5, C 72517	Total/NA	Solid	3541	

GC Semi VOA

Prep Batch: 218279

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68556-3	WB7-8, S5, C 72517	Total/NA	Solid	3541	
180-68556-6	WB6-7, S1, C 72517	Total/NA	Solid	3541	
180-68556-9	WB6-7, S2, C 72517	Total/NA	Solid	3541	
MB 180-218279/1-A	Method Blank	Total/NA	Solid	3541	
LCS 180-218279/2-A	Lab Control Sample	Total/NA	Solid	3541	
180-68556-3 MS	WB7-8, S5, C 72517	Total/NA	Solid	3541	
180-68556-3 MSD	WB7-8, S5, C 72517	Total/NA	Solid	3541	

Cleanup Batch: 218348

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68556-3	WB7-8, S5, C 72517	Total/NA	Solid	3665A	218279
180-68556-6	WB6-7, S1, C 72517	Total/NA	Solid	3665A	218279
180-68556-9	WB6-7, S2, C 72517	Total/NA	Solid	3665A	218279
180-68556-3 MS	WB7-8, S5, C 72517	Total/NA	Solid	3665A	218279
180-68556-3 MSD	WB7-8, S5, C 72517	Total/NA	Solid	3665A	218279

Cleanup Batch: 218349

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68556-3	WB7-8, S5, C 72517	Total/NA	Solid	3660B	218348
180-68556-6	WB6-7, S1, C 72517	Total/NA	Solid	3660B	218348
180-68556-9	WB6-7, S2, C 72517	Total/NA	Solid	3660B	218348
180-68556-3 MS	WB7-8, S5, C 72517	Total/NA	Solid	3660B	218348
180-68556-3 MSD	WB7-8, S5, C 72517	Total/NA	Solid	3660B	218348

Analysis Batch: 218352

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68556-3	WB7-8, S5, C 72517	Total/NA	Solid	8082A	218349
180-68556-6	WB6-7, S1, C 72517	Total/NA	Solid	8082A	218349
180-68556-9	WB6-7, S2, C 72517	Total/NA	Solid	8082A	218349
MB 180-218279/1-A	Method Blank	Total/NA	Solid	8082A	218279
LCS 180-218279/2-A	Lab Control Sample	Total/NA	Solid	8082A	218279
180-68556-3 MS	WB7-8, S5, C 72517	Total/NA	Solid	8082A	218349
180-68556-3 MSD	WB7-8, S5, C 72517	Total/NA	Solid	8082A	218349

Metals

Prep Batch: 218293

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68556-3	WB7-8, S5, C 72517	Total/NA	Solid	3050B	
180-68556-6	WB6-7, S1, C 72517	Total/NA	Solid	3050B	
180-68556-9	WB6-7, S2, C 72517	Total/NA	Solid	3050B	
MB 180-218293/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 180-218293/2-A	Lab Control Sample	Total/NA	Solid	3050B	
180-68556-3 MS	WB7-8, S5, C 72517	Total/NA	Solid	3050B	

Metals (Continued)

Prep Batch: 218293 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68556-3 MSD	WB7-8, S5, C 72517	Total/NA	Solid	3050B	

Prep Batch: 218383

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68556-3	WB7-8, S5, C 72517	Total/NA	Solid	7471B	
180-68556-6	WB6-7, S1, C 72517	Total/NA	Solid	7471B	
180-68556-9	WB6-7, S2, C 72517	Total/NA	Solid	7471B	
MB 180-218383/1-A	Method Blank	Total/NA	Solid	7471B	
LCS 180-218383/2-A	Lab Control Sample	Total/NA	Solid	7471B	
180-68556-3 MS	WB7-8, S5, C 72517	Total/NA	Solid	7471B	
180-68556-3 MSD	WB7-8, S5, C 72517	Total/NA	Solid	7471B	

Analysis Batch: 218421

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68556-3	WB7-8, S5, C 72517	Total/NA	Solid	6010C	218293
180-68556-6	WB6-7, S1, C 72517	Total/NA	Solid	6010C	218293
180-68556-9	WB6-7, S2, C 72517	Total/NA	Solid	6010C	218293
MB 180-218293/1-A	Method Blank	Total/NA	Solid	6010C	218293
LCS 180-218293/2-A	Lab Control Sample	Total/NA	Solid	6010C	218293
180-68556-3 MS	WB7-8, S5, C 72517	Total/NA	Solid	6010C	218293
180-68556-3 MSD	WB7-8, S5, C 72517	Total/NA	Solid	6010C	218293

Analysis Batch: 218639

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68556-3	WB7-8, S5, C 72517	Total/NA	Solid	7471B	218383
180-68556-6	WB6-7, S1, C 72517	Total/NA	Solid	7471B	218383
180-68556-9	WB6-7, S2, C 72517	Total/NA	Solid	7471B	218383
MB 180-218383/1-A	Method Blank	Total/NA	Solid	7471B	218383
LCS 180-218383/2-A	Lab Control Sample	Total/NA	Solid	7471B	218383
180-68556-3 MS	WB7-8, S5, C 72517	Total/NA	Solid	7471B	218383
180-68556-3 MSD	WB7-8, S5, C 72517	Total/NA	Solid	7471B	218383

General Chemistry

Analysis Batch: 218185

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68556-1	WB7-8, S5, A 72517	Total/NA	Solid	2540G	
180-68556-2	WB7-8, S5, B 72517	Total/NA	Solid	2540G	
180-68556-3	WB7-8, S5, C 72517	Total/NA	Solid	2540G	
180-68556-4	WB6-7, S1, A 72517	Total/NA	Solid	2540G	
180-68556-5	WB6-7, S1, B 72517	Total/NA	Solid	2540G	
180-68556-6	WB6-7, S1, C 72517	Total/NA	Solid	2540G	
180-68556-7	WB6-7, S2, A 72517	Total/NA	Solid	2540G	
180-68556-8	WB6-7, S2, B 72517	Total/NA	Solid	2540G	
180-68556-9	WB6-7, S2, C 72517	Total/NA	Solid	2540G	
180-68556-10	DUP 17 72517	Total/NA	Solid	2540G	
180-68556-3 DU	WB7-8, S5, C 72517	Total/NA	Solid	2540G	
180-68556-6 DU	WB6-7, S1, C 72517	Total/NA	Solid	2540G	

General Chemistry (Continued)

Prep Batch: 218282

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68556-3	WB7-8, S5, C 72517	Total/NA	Solid	9010C	
180-68556-6	WB6-7, S1, C 72517	Total/NA	Solid	9010C	
180-68556-9	WB6-7, S2, C 72517	Total/NA	Solid	9010C	
MB 180-218282/4-A	Method Blank	Total/NA	Solid	9010C	
HLCS 180-218282/2-A	Lab Control Sample	Total/NA	Solid	9010C	
LCS 180-218282/3-A	Lab Control Sample	Total/NA	Solid	9010C	
LLCS 180-218282/1-A	Lab Control Sample	Total/NA	Solid	9010C	
180-68556-3 MS	WB7-8, S5, C 72517	Total/NA	Solid	9010C	
180-68556-3 MSD	WB7-8, S5, C 72517	Total/NA	Solid	9010C	

Analysis Batch: 218335

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68556-3	WB7-8, S5, C 72517	Total/NA	Solid	9014	218282
180-68556-6	WB6-7, S1, C 72517	Total/NA	Solid	9014	218282
180-68556-9	WB6-7, S2, C 72517	Total/NA	Solid	9014	218282
MB 180-218282/4-A	Method Blank	Total/NA	Solid	9014	218282
HLCS 180-218282/2-A	Lab Control Sample	Total/NA	Solid	9014	218282
LCS 180-218282/3-A	Lab Control Sample	Total/NA	Solid	9014	218282
LLCS 180-218282/1-A	Lab Control Sample	Total/NA	Solid	9014	218282
180-68556-3 MS	WB7-8, S5, C 72517	Total/NA	Solid	9014	218282
180-68556-3 MSD	WB7-8, S5, C 72517	Total/NA	Solid	9014	218282

TestAmerica Pittsburgh
301 Alpha Drive RIDC Park
Pittsburgh, PA 15238
Phone (412) 963-7058 Fax (412) 963-2468

Chain of Custody Record

180-68556 Chain of Custody

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Ellen Buelow	Lab PM: Dunlap, David A	COC No: 180-38494-8381.1
Client Contact: Ashwin Ranna; Aron Krasnopoler	Phone: 412-552-4758	E-Mail: david.dunlap@test.	Page: Page 1 of 1
Company: Geosyntec Consultants, Inc.			Job #:
Address: Penn Center West One, Suite 402 1 Penn Center West Drive	Due Date Requested:		
City: Pittsburgh	TAT Requested (days): 1 Day		
State, Zip: PA, 15276			
Phone:	PO #: MN0832B		
Email: aranna@geosyntec.com; Akrasnopoler@geosyntec.com	WO #:		
Project Name: Former Sperry Remington Site - North IRM	Project #: 18013464		
Site:	SSOW#:		

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - VOA-Select List	6010C, 7471B, 9014 - Select ICP Metals, Mercury, Cyanide	8082A, 8270D, PCBs, Select BNA	8260C - VOA-Select List (Trip Blanks only)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	A		
WB7-8,SS,A 72517	72517	11:35	G	Solid	N	Y	X				12	Perform MS,MSD 10
WB7-8,SS,B 72517	72517	11:50	G	Solid	N	N	X				4	
WB7-8,SS,C 72517	72517	11:55	C	Solid	N	Y		X	X		6	Perform MS/MSD 11
WB6-7,S1,A 72517	72517	15:10	G	Solid	N	N	X				4	
WB6-7,S1,B 72517	72517	15:20	G	Solid	N	N	X				4	
WB6-7,S1,C 72517	72517	15:25	C	Solid	N	N		X	X		2	
WB6-7,S2,A 72517	72517	16:35	G	Solid	N	N	X				4	The times are correct
WB6-7,S2,B 72517	72517	16:25	G	Solid	N	N	X				4	for WB67,S2 A & B
WB6-7,S2,C 72517	72517	16:40	C	Solid	N	N		X	X		2	
				Solid								
DUP# ECB 17 72517	72517	—	G	Solid	N	N	X				4	

TRIP BLANK 1

RUSH

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Ellen Buelow	18:30 ECB 07/25/17	Geosyntec		7/26/17 0730	TA Pgh
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

7/31/2017

TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
phone 412.963.7058 fax 412.963.2468

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☑ Other:

Client Contact	**Project Manager:** Aron Krasnopoler	**Site Contact:** Ashwin Ranna/Ellen Buelow	**Date:** 072517	COC No:
Geosyntec Consultants	**Tel/Fax:** 401-381-4333	**Lab Contact:** Dave Dunlap	**Carrier:** FedEx	2 of 2 COCs
10211 Wincopin Circle, 4th Floor	**Analysis Turnaround Time**			Sampler:
Columbia, MD 21044	☐ CALENDAR DAYS ☑ WORKING DAYS			**For Lab Use Only:**
410-381-4333 Phone	TAT if different from Below _____			Walk-in Client:
410-381-4499 FAX	☐ 2 weeks			Lab Sampling:
Project Name: Former Sperry Remington Site - North	☐ 1 week			
Site: Elmira	☐ 2 days			Job / SDG No.:
P O # MN0832B	☑ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	PCBs - 8082A	VOCs - 8260C	TCLP Lead	8260C - VOA - TRIP BLANK	Sample Specific Notes:
TRIP BLANK #1	—	—	—	W	2						X	

Preservation Used: 1= Ice, 2= HCl; 3= H_2SO_4; 4=HNO_3; 5=NaOH; 6= Other _____ 1

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd: _____ Corr'd: _____ Therm ID No.: _____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Ellen Buelow	Geosyntec	18:30 072517			7/26/17 0730
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Form No. CA-C-WI-002, Rev. 4.3, dated 12/05/2013

7/31/2017

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 180-68556-1

Login Number: 68556
List Number: 1
Creator: Kovitch, Christina M

List Source: TestAmerica Pittsburgh

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

TestAmerica Job ID: 180-68622-1
Client Project/Site: Former Sperry Remington Site - North IRM

For:
Geosyntec Consultants, Inc.
10211 Wincopin Circle
4'th Floor
Columbia, Maryland 21044

Attn: Mr. Aron Krasnopoler

Authorized for release by:
8/3/2017 4:59:07 PM

David Dunlap, Senior Project Manager
(412)963-2432
david.dunlap@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Job ID: 180-68622-1

Laboratory: TestAmerica Pittsburgh

Narrative

Job Narrative
180-68622-1

Receipt
The samples were received on 7/27/2017 8:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.1° C.

GC/MS VOA
Method(s) 8260C: The continuing calibration verification (CCV) analyzed in batch 180-218353 was below method criteria for the following analyte: vinyl chloride. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte is considered estimated.

Method(s) 8260C: The continuing calibration verification (CCV) analyzed in batch 180-218548 was below method criteria for the following analyte: acetone. A CCV standard at or below the reporting limit (RL) was analyzed with the affected sample and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte is considered estimated.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals
Method(s) 6010C: The low level continuing calibration verification (CCVL 180-218674/88) recovered above the control limit for selenium. As the CCVL was high and the associated samples had selenium either not detected or detected at a concentration below the reporting limit, the results were reported.

Method(s) 7471B: The matrix spike duplicate (MSD) recovery of sample WB6-7, S3, C 072617 (180-68622-3) was above the control limits for mercury. The recoveries of the matrix spike (MS) and laboratory control sample (LCS) were within the control limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.

General Chemistry

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc. TestAmerica Job ID: 180-68622-1
Project/Site: Former Sperry Remington Site - North IRM

Laboratory: TestAmerica Pittsburgh

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	11182	03-31-18

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
2540G		Solid	Percent Moisture
2540G		Solid	Percent Solids
8270D LL	3541	Solid	1,4-Dioxane

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68622-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-68622-1	WB6-7, S3, A 072617	Solid	07/26/17 13:45	07/27/17 08:00
180-68622-2	WB6-7, S3, B 072617	Solid	07/26/17 13:40	07/27/17 08:00
180-68622-3	WB6-7, S3, C 072617	Solid	07/26/17 13:50	07/27/17 08:00
180-68622-4	WB6-7, S4, A 072617	Solid	07/26/17 15:00	07/27/17 08:00
180-68622-5	WB6-7, S4, B 072617	Solid	07/26/17 15:05	07/27/17 08:00
180-68622-6	WB6-7, S4, C 072617	Solid	07/26/17 15:10	07/27/17 08:00
180-68622-9	TRIP BLANK#1	Water	07/26/17 00:00	07/27/17 08:00

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68622-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL PIT
8260C	Volatile Organic Compounds (GC/MS)	SW846	TAL PIT
8270D LL	Semivolatile Organic Compounds by GC/MS - Low Level	SW846	TAL PIT
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL PIT
6010C	Metals (ICP)	SW846	TAL PIT
7471B	Mercury (CVAA)	SW846	TAL PIT
2540G	SM 2540G	SM22	TAL PIT
9014	Cyanide	SW846	TAL PIT

Protocol References:

SM22 = SM22

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68622-1

Client Sample ID: WB6-7, S3, A 072617
Lab Sample ID: 180-68622-1
Date Collected: 07/26/17 13:45
Matrix: Solid
Date Received: 07/27/17 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218418	07/28/17 11:41	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: WB6-7, S3, A 072617
Lab Sample ID: 180-68622-1
Date Collected: 07/26/17 13:45
Matrix: Solid
Date Received: 07/27/17 08:00
Percent Solids: 89.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			7.235 g	5 mL	218356	07/28/17 05:40	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	218353	07/28/17 17:11	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: WB6-7, S3, B 072617
Lab Sample ID: 180-68622-2
Date Collected: 07/26/17 13:40
Matrix: Solid
Date Received: 07/27/17 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218418	07/28/17 11:41	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: WB6-7, S3, B 072617
Lab Sample ID: 180-68622-2
Date Collected: 07/26/17 13:40
Matrix: Solid
Date Received: 07/27/17 08:00
Percent Solids: 82.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.0473 g	5 mL	218356	07/28/17 05:40	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	218353	07/28/17 13:23	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: WB6-7, S3, C 072617
Lab Sample ID: 180-68622-3
Date Collected: 07/26/17 13:50
Matrix: Solid
Date Received: 07/27/17 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218418	07/28/17 11:41	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: WB6-7, S3, C 072617
Lab Sample ID: 180-68622-3
Date Collected: 07/26/17 13:50
Matrix: Solid
Date Received: 07/27/17 08:00
Percent Solids: 84.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.2 g	0.5 mL	218664	08/01/17 03:39	BAP	TAL PIT

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68622-1

Client Sample ID: WB6-7, S3, C 072617

Lab Sample ID: 180-68622-3
Date Collected: 07/26/17 13:50
Matrix: Solid
Date Received: 07/27/17 08:00
Percent Solids: 84.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8270D LL		1	1 mL	1 mL	218731	08/01/17 16:31	VVP	TAL PIT
	Instrument ID: CH732									
Total/NA	Prep	3541			15.1 g	20.0 mL	218666	08/01/17 03:45	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	218720	08/01/17 10:12	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	218721	08/01/17 10:13	JMO	TAL PIT
Total/NA	Analysis	8082A		1			218951	08/03/17 09:11	JMO	TAL PIT
	Instrument ID: CHGC8									
Total/NA	Prep	3050B			0.95 g	100 mL	218412	07/28/17 10:54	CRM	TAL PIT
Total/NA	Analysis	6010C		1			218674	07/31/17 14:11	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.56 g	100 mL	218386	07/31/17 08:10	RJR	TAL PIT
Total/NA	Analysis	7471B		1			218639	07/31/17 13:39	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.01 g	50 mL	218907	08/02/17 13:35	JAS	TAL PIT
Total/NA	Analysis	9014		1			219021	08/03/17 11:14	JAS	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: WB6-7, S4, A 072617

Lab Sample ID: 180-68622-4
Date Collected: 07/26/17 15:00
Matrix: Solid
Date Received: 07/27/17 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218418	07/28/17 11:41	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: WB6-7, S4, A 072617

Lab Sample ID: 180-68622-4
Date Collected: 07/26/17 15:00
Matrix: Solid
Date Received: 07/27/17 08:00
Percent Solids: 87.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			7.1134 g	5 mL	218356	07/28/17 05:40	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	218353	07/28/17 13:45	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: WB6-7, S4, B 072617

Lab Sample ID: 180-68622-5
Date Collected: 07/26/17 15:05
Matrix: Solid
Date Received: 07/27/17 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218418	07/28/17 11:41	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: WB6-7, S4, B 072617

Lab Sample ID: 180-68622-5
Date Collected: 07/26/17 15:05
Matrix: Solid
Date Received: 07/27/17 08:00
Percent Solids: 89.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.834 g	5 mL	218356	07/28/17 05:40	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	218353	07/28/17 14:08	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: WB6-7, S4, C 072617

Lab Sample ID: 180-68622-6
Date Collected: 07/26/17 15:10
Matrix: Solid
Date Received: 07/27/17 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218418	07/28/17 11:41	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: WB6-7, S4, C 072617

Lab Sample ID: 180-68622-6
Date Collected: 07/26/17 15:10
Matrix: Solid
Date Received: 07/27/17 08:00
Percent Solids: 86.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.3 g	0.5 mL	218664	08/01/17 03:39	BAP	TAL PIT
Total/NA	Analysis	8270D LL		1	1 mL	1 mL	218731	08/01/17 17:52	VVP	TAL PIT
	Instrument ID: CH732									
Total/NA	Prep	3541			15.3 g	20.0 mL	218666	08/01/17 03:45	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	218720	08/01/17 10:12	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	218721	08/01/17 10:13	JMO	TAL PIT
Total/NA	Analysis	8082A		1			218951	08/03/17 09:31	JMO	TAL PIT
	Instrument ID: CHGC8									
Total/NA	Prep	3050B			1.07 g	100 mL	218412	07/28/17 10:54	CRM	TAL PIT
Total/NA	Analysis	6010C		1			218674	07/31/17 14:16	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.58 g	100 mL	218386	07/31/17 08:10	RJR	TAL PIT
Total/NA	Analysis	7471B		1			218639	07/31/17 13:45	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.04 g	50 mL	218907	08/02/17 13:35	JAS	TAL PIT
Total/NA	Analysis	9014		1			219021	08/03/17 11:19	JAS	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: TRIP BLANK#1

Lab Sample ID: 180-68622-9
Date Collected: 07/26/17 00:00
Matrix: Water
Date Received: 07/27/17 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	218548	07/31/17 09:12	FBB	TAL PIT
	Instrument ID: CHHP6									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68622-1

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Analyst References:

Lab: TAL PIT

Batch Type: Cleanup

JMO = John Oravec

Batch Type: Prep

BAP = Brian Pino

CRM = Caitlin McEvoy

JAS = Joshua Schmidt

KLG = Kathy Gordon

RJR = Ron Rosenbaum

Batch Type: Analysis

FBB = Frank Bungard

JAS = Joshua Schmidt

JMO = John Oravec

JTL = Justin Landry

KLG = Kathy Gordon

RJG = Rob Good

RJR = Ron Rosenbaum

VVP = Vincent Piccolino

Client Sample ID: WB6-7, S3, A 072617

Lab Sample ID: 180-68622-1
Date Collected: 07/26/17 13:45
Matrix: Solid
Date Received: 07/27/17 08:00
Percent Solids: 89.5

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.015	0.0024	mg/Kg	☼	07/28/17 05:40	07/28/17 17:11	1
Benzene	ND		0.0039	0.0015	mg/Kg	☼	07/28/17 05:40	07/28/17 17:11	1
2-Butanone (MEK)	ND		0.0039	0.0022	mg/Kg	☼	07/28/17 05:40	07/28/17 17:11	1
Carbon tetrachloride	ND		0.0039	0.0026	mg/Kg	☼	07/28/17 05:40	07/28/17 17:11	1
Chlorobenzene	ND		0.0039	0.0012	mg/Kg	☼	07/28/17 05:40	07/28/17 17:11	1
Chloroform	ND		0.0039	0.0016	mg/Kg	☼	07/28/17 05:40	07/28/17 17:11	1
cis-1,2-Dichloroethene	ND		0.0039	0.0012	mg/Kg	☼	07/28/17 05:40	07/28/17 17:11	1
1,2-Dichlorobenzene	ND		0.0039	0.0031	mg/Kg	☼	07/28/17 05:40	07/28/17 17:11	1
1,3-Dichlorobenzene	ND		0.0039	0.0012	mg/Kg	☼	07/28/17 05:40	07/28/17 17:11	1
1,4-Dichlorobenzene	ND		0.0039	0.00079	mg/Kg	☼	07/28/17 05:40	07/28/17 17:11	1
1,1-Dichloroethane	ND		0.0039	0.0014	mg/Kg	☼	07/28/17 05:40	07/28/17 17:11	1
1,2-Dichloroethane	ND		0.0039	0.0011	mg/Kg	☼	07/28/17 05:40	07/28/17 17:11	1
1,1-Dichloroethene	ND		0.0039	0.0022	mg/Kg	☼	07/28/17 05:40	07/28/17 17:11	1
Ethylbenzene	ND		0.0039	0.0017	mg/Kg	☼	07/28/17 05:40	07/28/17 17:11	1
Methylene Chloride	ND		0.0039	0.0018	mg/Kg	☼	07/28/17 05:40	07/28/17 17:11	1
Methyl tert-butyl ether	ND		0.0039	0.0028	mg/Kg	☼	07/28/17 05:40	07/28/17 17:11	1
n-Butylbenzene	ND		0.0039	0.0029	mg/Kg	☼	07/28/17 05:40	07/28/17 17:11	1
N-Propylbenzene	ND		0.0039	0.0016	mg/Kg	☼	07/28/17 05:40	07/28/17 17:11	1
sec-Butylbenzene	ND		0.0039	0.0019	mg/Kg	☼	07/28/17 05:40	07/28/17 17:11	1
tert-Butylbenzene	ND		0.0039	0.0014	mg/Kg	☼	07/28/17 05:40	07/28/17 17:11	1
Tetrachloroethene	ND		0.0039	0.0015	mg/Kg	☼	07/28/17 05:40	07/28/17 17:11	1
Toluene	ND		0.0039	0.0013	mg/Kg	☼	07/28/17 05:40	07/28/17 17:11	1
trans-1,2-Dichloroethene	ND		0.0039	0.0020	mg/Kg	☼	07/28/17 05:40	07/28/17 17:11	1
1,1,1-Trichloroethane	ND		0.0039	0.0019	mg/Kg	☼	07/28/17 05:40	07/28/17 17:11	1
Trichloroethene	ND		0.0039	0.0012	mg/Kg	☼	07/28/17 05:40	07/28/17 17:11	1
1,2,4-Trimethylbenzene	ND		0.0039	0.0010	mg/Kg	☼	07/28/17 05:40	07/28/17 17:11	1
1,3,5-Trimethylbenzene	ND		0.0039	0.0013	mg/Kg	☼	07/28/17 05:40	07/28/17 17:11	1
Vinyl chloride	ND		0.0039	0.0028	mg/Kg	☼	07/28/17 05:40	07/28/17 17:11	1
Xylenes, Total	ND		0.0077	0.0033	mg/Kg	☼	07/28/17 05:40	07/28/17 17:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*63 - 120*	*07/28/17 05:40*	*07/28/17 17:11*	*1*
Dibromofluoromethane (Surr)	*103*		*68 - 121*	*07/28/17 05:40*	*07/28/17 17:11*	*1*
1,2-Dichloroethane-d4 (Surr)	*108*		*52 - 124*	*07/28/17 05:40*	*07/28/17 17:11*	*1*
Toluene-d8 (Surr)	*113*		*72 - 127*	*07/28/17 05:40*	*07/28/17 17:11*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**10.5**		0.1	0.1	%			07/28/17 11:41	1
Percent Solids	**89.5**		0.1	0.1	%			07/28/17 11:41	1

Client Sample ID: WB6-7, S3, B 072617

Lab Sample ID: 180-68622-2
Date Collected: 07/26/17 13:40
Matrix: Solid
Date Received: 07/27/17 08:00
Percent Solids: 82.4

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.020	0.0032	mg/Kg	☼	07/28/17 05:40	07/28/17 13:23	1
Benzene	ND		0.0050	0.0020	mg/Kg	☼	07/28/17 05:40	07/28/17 13:23	1
2-Butanone (MEK)	ND		0.0050	0.0029	mg/Kg	☼	07/28/17 05:40	07/28/17 13:23	1

Client Sample ID: WB6-7, S3, B 072617 — Lab Sample ID: 180-68622-2

Date Collected: 07/26/17 13:40 — **Matrix: Solid**
Date Received: 07/27/17 08:00 — **Percent Solids: 82.4**

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	ND		0.0050	0.0033	mg/Kg	☼	07/28/17 05:40	07/28/17 13:23	1
Chlorobenzene	ND		0.0050	0.0016	mg/Kg	☼	07/28/17 05:40	07/28/17 13:23	1
Chloroform	ND		0.0050	0.0021	mg/Kg	☼	07/28/17 05:40	07/28/17 13:23	1
cis-1,2-Dichloroethene	ND		0.0050	0.0016	mg/Kg	☼	07/28/17 05:40	07/28/17 13:23	1
1,2-Dichlorobenzene	ND		0.0050	0.0040	mg/Kg	☼	07/28/17 05:40	07/28/17 13:23	1
1,3-Dichlorobenzene	ND		0.0050	0.0016	mg/Kg	☼	07/28/17 05:40	07/28/17 13:23	1
1,4-Dichlorobenzene	ND		0.0050	0.0010	mg/Kg	☼	07/28/17 05:40	07/28/17 13:23	1
1,1-Dichloroethane	ND		0.0050	0.0018	mg/Kg	☼	07/28/17 05:40	07/28/17 13:23	1
1,2-Dichloroethane	ND		0.0050	0.0015	mg/Kg	☼	07/28/17 05:40	07/28/17 13:23	1
1,1-Dichloroethene	ND		0.0050	0.0029	mg/Kg	☼	07/28/17 05:40	07/28/17 13:23	1
Ethylbenzene	ND		0.0050	0.0022	mg/Kg	☼	07/28/17 05:40	07/28/17 13:23	1
Methylene Chloride	ND		0.0050	0.0024	mg/Kg	☼	07/28/17 05:40	07/28/17 13:23	1
Methyl tert-butyl ether	ND		0.0050	0.0037	mg/Kg	☼	07/28/17 05:40	07/28/17 13:23	1
n-Butylbenzene	ND		0.0050	0.0038	mg/Kg	☼	07/28/17 05:40	07/28/17 13:23	1
N-Propylbenzene	ND		0.0050	0.0021	mg/Kg	☼	07/28/17 05:40	07/28/17 13:23	1
sec-Butylbenzene	ND		0.0050	0.0024	mg/Kg	☼	07/28/17 05:40	07/28/17 13:23	1
tert-Butylbenzene	ND		0.0050	0.0018	mg/Kg	☼	07/28/17 05:40	07/28/17 13:23	1
Tetrachloroethene	ND		0.0050	0.0020	mg/Kg	☼	07/28/17 05:40	07/28/17 13:23	1
Toluene	ND		0.0050	0.0017	mg/Kg	☼	07/28/17 05:40	07/28/17 13:23	1
trans-1,2-Dichloroethene	ND		0.0050	0.0025	mg/Kg	☼	07/28/17 05:40	07/28/17 13:23	1
1,1,1-Trichloroethane	ND		0.0050	0.0025	mg/Kg	☼	07/28/17 05:40	07/28/17 13:23	1
Trichloroethene	ND		0.0050	0.0015	mg/Kg	☼	07/28/17 05:40	07/28/17 13:23	1
1,2,4-Trimethylbenzene	ND		0.0050	0.0014	mg/Kg	☼	07/28/17 05:40	07/28/17 13:23	1
1,3,5-Trimethylbenzene	ND		0.0050	0.0017	mg/Kg	☼	07/28/17 05:40	07/28/17 13:23	1
Vinyl chloride	ND		0.0050	0.0037	mg/Kg	☼	07/28/17 05:40	07/28/17 13:23	1
Xylenes, Total	ND		0.010	0.0043	mg/Kg	☼	07/28/17 05:40	07/28/17 13:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*63 - 120*	*07/28/17 05:40*	*07/28/17 13:23*	*1*
Dibromofluoromethane (Surr)	*108*		*68 - 121*	*07/28/17 05:40*	*07/28/17 13:23*	*1*
1,2-Dichloroethane-d4 (Surr)	*109*		*52 - 124*	*07/28/17 05:40*	*07/28/17 13:23*	*1*
Toluene-d8 (Surr)	*116*		*72 - 127*	*07/28/17 05:40*	*07/28/17 13:23*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**17.6**		0.1	0.1	%			07/28/17 11:41	1
Percent Solids	**82.4**		0.1	0.1	%			07/28/17 11:41	1

Client Sample ID: WB6-7, S3, C 072617 — Lab Sample ID: 180-68622-3

Date Collected: 07/26/17 13:50 — **Matrix: Solid**
Date Received: 07/27/17 08:00 — **Percent Solids: 84.9**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.027**		0.0078	0.0026	mg/Kg	☼	08/01/17 03:39	08/01/17 16:31	1
Acenaphthylene	**0.040**		0.0078	0.0026	mg/Kg	☼	08/01/17 03:39	08/01/17 16:31	1
Anthracene	**0.082**		0.0078	0.0029	mg/Kg	☼	08/01/17 03:39	08/01/17 16:31	1
Benzo[a]anthracene	**0.27**		0.0078	0.0031	mg/Kg	☼	08/01/17 03:39	08/01/17 16:31	1
Benzo[a]pyrene	**0.27**		0.0078	0.0032	mg/Kg	☼	08/01/17 03:39	08/01/17 16:31	1
Benzo[b]fluoranthene	**0.34**		0.0078	0.0034	mg/Kg	☼	08/01/17 03:39	08/01/17 16:31	1

Client Sample ID: WB6-7, S3, C 072617 **Lab Sample ID: 180-68622-3**
Date Collected: 07/26/17 13:50 **Matrix: Solid**
Date Received: 07/27/17 08:00 **Percent Solids: 84.9**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	**0.26**		0.0078	0.0034	mg/Kg	☼	08/01/17 03:39	08/01/17 16:31	1
Benzo[k]fluoranthene	**0.14**		0.0078	0.0027	mg/Kg	☼	08/01/17 03:39	08/01/17 16:31	1
Chrysene	**0.31**		0.0078	0.0030	mg/Kg	☼	08/01/17 03:39	08/01/17 16:31	1
Dibenz(a,h)anthracene	**0.057**		0.0078	0.0032	mg/Kg	☼	08/01/17 03:39	08/01/17 16:31	1
Dibenzofuran	**0.020**	**J**	0.038	0.0031	mg/Kg	☼	08/01/17 03:39	08/01/17 16:31	1
1,4-Dioxane	ND		0.077	0.0058	mg/Kg	☼	08/01/17 03:39	08/01/17 16:31	1
Fluoranthene	**0.50**		0.0078	0.0031	mg/Kg	☼	08/01/17 03:39	08/01/17 16:31	1
Fluorene	**0.029**		0.0078	0.0028	mg/Kg	☼	08/01/17 03:39	08/01/17 16:31	1
Hexachlorobenzene	ND		0.0078	0.0031	mg/Kg	☼	08/01/17 03:39	08/01/17 16:31	1
Indeno[1,2,3-cd]pyrene	**0.22**		0.0078	0.0030	mg/Kg	☼	08/01/17 03:39	08/01/17 16:31	1
2-Methylphenol	ND		0.038	0.0034	mg/Kg	☼	08/01/17 03:39	08/01/17 16:31	1
Methylphenol, 3 & 4	ND		0.038	0.0034	mg/Kg	☼	08/01/17 03:39	08/01/17 16:31	1
Naphthalene	**0.023**		0.0078	0.0028	mg/Kg	☼	08/01/17 03:39	08/01/17 16:31	1
Pentachlorophenol	ND		0.20	0.073	mg/Kg	☼	08/01/17 03:39	08/01/17 16:31	1
Phenanthrene	**0.23**		0.0078	0.0032	mg/Kg	☼	08/01/17 03:39	08/01/17 16:31	1
Phenol	ND		0.038	0.0052	mg/Kg	☼	08/01/17 03:39	08/01/17 16:31	1
Pyrene	**0.40**		0.0078	0.0034	mg/Kg	☼	08/01/17 03:39	08/01/17 16:31	1
Hexachloroethane	ND		38	2.8	ug/Kg	☼	08/01/17 03:39	08/01/17 16:31	1
Nitrobenzene	ND		77	3.0	ug/Kg	☼	08/01/17 03:39	08/01/17 16:31	1
Hexachlorobutadiene	ND		7.8	2.4	ug/Kg	☼	08/01/17 03:39	08/01/17 16:31	1
2,4,5-Trichlorophenol	ND		38	3.7	ug/Kg	☼	08/01/17 03:39	08/01/17 16:31	1
2,4,6-Trichlorophenol	ND		38	3.4	ug/Kg	☼	08/01/17 03:39	08/01/17 16:31	1
2,4-Dinitrotoluene	ND		38	5.1	ug/Kg	☼	08/01/17 03:39	08/01/17 16:31	1
Pyridine	ND		38	3.7	ug/Kg	☼	08/01/17 03:39	08/01/17 16:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*66*		*42 - 100*	*08/01/17 03:39*	*08/01/17 16:31*	*1*
2-Fluorophenol (Surr)	*66*		*21 - 107*	*08/01/17 03:39*	*08/01/17 16:31*	*1*
Nitrobenzene-d5 (Surr)	*61*		*35 - 109*	*08/01/17 03:39*	*08/01/17 16:31*	*1*
Phenol-d5 (Surr)	*62*		*29 - 105*	*08/01/17 03:39*	*08/01/17 16:31*	*1*
Terphenyl-d14 (Surr)	*64*		*36 - 113*	*08/01/17 03:39*	*08/01/17 16:31*	*1*
2,4,6-Tribromophenol (Surr)	*81*		*20 - 134*	*08/01/17 03:39*	*08/01/17 16:31*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.019	0.010	mg/Kg	☼	08/01/17 03:45	08/03/17 09:11	1
PCB-1221	ND		0.019	0.010	mg/Kg	☼	08/01/17 03:45	08/03/17 09:11	1
PCB-1232	ND		0.019	0.0077	mg/Kg	☼	08/01/17 03:45	08/03/17 09:11	1
PCB-1242	ND		0.019	0.015	mg/Kg	☼	08/01/17 03:45	08/03/17 09:11	1
PCB-1248	**0.40**		0.019	0.0093	mg/Kg	☼	08/01/17 03:45	08/03/17 09:11	1
PCB-1254	**0.19**		0.019	0.0085	mg/Kg	☼	08/01/17 03:45	08/03/17 09:11	1
PCB-1260	**0.041**		0.019	0.013	mg/Kg	☼	08/01/17 03:45	08/03/17 09:11	1
PCB-1262	ND		0.019	0.014	mg/Kg	☼	08/01/17 03:45	08/03/17 09:11	1
PCB-1268	ND		0.019	0.0059	mg/Kg	☼	08/01/17 03:45	08/03/17 09:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*74*		*23 - 150*	*08/01/17 03:45*	*08/03/17 09:11*	*1*
DCB Decachlorobiphenyl (Surr)	*74*		*23 - 150*	*08/01/17 03:45*	*08/03/17 09:11*	*1*
Tetrachloro-m-xylene (Surr)	*74*		*27 - 138*	*08/01/17 03:45*	*08/03/17 09:11*	*1*
Tetrachloro-m-xylene (Surr)	*64*		*27 - 138*	*08/01/17 03:45*	*08/03/17 09:11*	*1*

Client Sample ID: WB6-7, S3, C 072617 — Lab Sample ID: 180-68622-3

Date Collected: 07/26/17 13:50 — **Matrix: Solid**
Date Received: 07/27/17 08:00 — **Percent Solids: 84.9**

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.8		1.2	0.55	mg/Kg	☼	07/28/17 10:54	07/31/17 14:11	1
Barium	100		25	6.7	mg/Kg	☼	07/28/17 10:54	07/31/17 14:11	1
Beryllium	0.34	J	0.50	0.13	mg/Kg	☼	07/28/17 10:54	07/31/17 14:11	1
Cadmium	0.20	J	0.62	0.14	mg/Kg	☼	07/28/17 10:54	07/31/17 14:11	1
Chromium	11		0.62	0.16	mg/Kg	☼	07/28/17 10:54	07/31/17 14:11	1
Copper	49		3.1	0.95	mg/Kg	☼	07/28/17 10:54	07/31/17 14:11	1
Lead	64		1.2	0.41	mg/Kg	☼	07/28/17 10:54	07/31/17 14:11	1
Manganese	390		1.9	0.50	mg/Kg	☼	07/28/17 10:54	07/31/17 14:11	1
Nickel	24		5.0	1.1	mg/Kg	☼	07/28/17 10:54	07/31/17 14:11	1
Selenium	ND	^	1.2	0.49	mg/Kg	☼	07/28/17 10:54	07/31/17 14:11	1
Silver	ND		0.62	0.21	mg/Kg	☼	07/28/17 10:54	07/31/17 14:11	1
Zinc	68		2.5	1.3	mg/Kg	☼	07/28/17 10:54	07/31/17 14:11	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.035	J F1	0.042	0.0093	mg/Kg	☼	07/31/17 08:10	07/31/17 13:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	15.1		0.1	0.1	%			07/28/17 11:41	1
Percent Solids	84.9		0.1	0.1	%			07/28/17 11:41	1
Cyanide, Total	0.37	J	0.58	0.18	mg/Kg	☼	08/02/17 13:35	08/03/17 11:14	1

Client Sample ID: WB6-7, S4, A 072617 — Lab Sample ID: 180-68622-4

Date Collected: 07/26/17 15:00 — **Matrix: Solid**
Date Received: 07/27/17 08:00 — **Percent Solids: 87.4**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0026	J	0.016	0.0025	mg/Kg	☼	07/28/17 05:40	07/28/17 13:45	1
Benzene	ND		0.0040	0.0016	mg/Kg	☼	07/28/17 05:40	07/28/17 13:45	1
2-Butanone (MEK)	ND		0.0040	0.0023	mg/Kg	☼	07/28/17 05:40	07/28/17 13:45	1
Carbon tetrachloride	ND		0.0040	0.0027	mg/Kg	☼	07/28/17 05:40	07/28/17 13:45	1
Chlorobenzene	ND		0.0040	0.0013	mg/Kg	☼	07/28/17 05:40	07/28/17 13:45	1
Chloroform	ND		0.0040	0.0017	mg/Kg	☼	07/28/17 05:40	07/28/17 13:45	1
cis-1,2-Dichloroethene	ND		0.0040	0.0013	mg/Kg	☼	07/28/17 05:40	07/28/17 13:45	1
1,2-Dichlorobenzene	ND		0.0040	0.0032	mg/Kg	☼	07/28/17 05:40	07/28/17 13:45	1
1,3-Dichlorobenzene	ND		0.0040	0.0013	mg/Kg	☼	07/28/17 05:40	07/28/17 13:45	1
1,4-Dichlorobenzene	ND		0.0040	0.00082	mg/Kg	☼	07/28/17 05:40	07/28/17 13:45	1
1,1-Dichloroethane	ND		0.0040	0.0015	mg/Kg	☼	07/28/17 05:40	07/28/17 13:45	1
1,2-Dichloroethane	ND		0.0040	0.0012	mg/Kg	☼	07/28/17 05:40	07/28/17 13:45	1
1,1-Dichloroethene	ND		0.0040	0.0023	mg/Kg	☼	07/28/17 05:40	07/28/17 13:45	1
Ethylbenzene	ND		0.0040	0.0017	mg/Kg	☼	07/28/17 05:40	07/28/17 13:45	1
Methylene Chloride	ND		0.0040	0.0019	mg/Kg	☼	07/28/17 05:40	07/28/17 13:45	1
Methyl tert-butyl ether	ND		0.0040	0.0030	mg/Kg	☼	07/28/17 05:40	07/28/17 13:45	1
n-Butylbenzene	ND		0.0040	0.0030	mg/Kg	☼	07/28/17 05:40	07/28/17 13:45	1
N-Propylbenzene	ND		0.0040	0.0017	mg/Kg	☼	07/28/17 05:40	07/28/17 13:45	1
sec-Butylbenzene	ND		0.0040	0.0020	mg/Kg	☼	07/28/17 05:40	07/28/17 13:45	1
tert-Butylbenzene	ND		0.0040	0.0015	mg/Kg	☼	07/28/17 05:40	07/28/17 13:45	1
Tetrachloroethene	ND		0.0040	0.0016	mg/Kg	☼	07/28/17 05:40	07/28/17 13:45	1

Client Sample ID: WB6-7, S4, A 072617 — Lab Sample ID: 180-68622-4

Date Collected: 07/26/17 15:00 — Matrix: Solid
Date Received: 07/27/17 08:00 — Percent Solids: 87.4

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		0.0040	0.0014	mg/Kg	☼	07/28/17 05:40	07/28/17 13:45	1
trans-1,2-Dichloroethene	ND		0.0040	0.0020	mg/Kg	☼	07/28/17 05:40	07/28/17 13:45	1
1,1,1-Trichloroethane	ND		0.0040	0.0020	mg/Kg	☼	07/28/17 05:40	07/28/17 13:45	1
Trichloroethene	**0.0014**	**J**	0.0040	0.0012	mg/Kg	☼	07/28/17 05:40	07/28/17 13:45	1
1,2,4-Trimethylbenzene	ND		0.0040	0.0011	mg/Kg	☼	07/28/17 05:40	07/28/17 13:45	1
1,3,5-Trimethylbenzene	ND		0.0040	0.0014	mg/Kg	☼	07/28/17 05:40	07/28/17 13:45	1
Vinyl chloride	ND		0.0040	0.0030	mg/Kg	☼	07/28/17 05:40	07/28/17 13:45	1
Xylenes, Total	ND		0.0080	0.0035	mg/Kg	☼	07/28/17 05:40	07/28/17 13:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*63 - 120*	*07/28/17 05:40*	*07/28/17 13:45*	*1*
Dibromofluoromethane (Surr)	*104*		*68 - 121*	*07/28/17 05:40*	*07/28/17 13:45*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*52 - 124*	*07/28/17 05:40*	*07/28/17 13:45*	*1*
Toluene-d8 (Surr)	*113*		*72 - 127*	*07/28/17 05:40*	*07/28/17 13:45*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**12.6**		0.1	0.1	%			07/28/17 11:41	1
Percent Solids	**87.4**		0.1	0.1	%			07/28/17 11:41	1

Client Sample ID: WB6-7, S4, B 072617 — Lab Sample ID: 180-68622-5

Date Collected: 07/26/17 15:05 — Matrix: Solid
Date Received: 07/27/17 08:00 — Percent Solids: 89.4

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**0.0028**	**J**	0.016	0.0026	mg/Kg	☼	07/28/17 05:40	07/28/17 14:08	1
Benzene	ND		0.0041	0.0016	mg/Kg	☼	07/28/17 05:40	07/28/17 14:08	1
2-Butanone (MEK)	ND		0.0041	0.0024	mg/Kg	☼	07/28/17 05:40	07/28/17 14:08	1
Carbon tetrachloride	ND		0.0041	0.0027	mg/Kg	☼	07/28/17 05:40	07/28/17 14:08	1
Chlorobenzene	ND		0.0041	0.0013	mg/Kg	☼	07/28/17 05:40	07/28/17 14:08	1
Chloroform	ND		0.0041	0.0017	mg/Kg	☼	07/28/17 05:40	07/28/17 14:08	1
cis-1,2-Dichloroethene	ND		0.0041	0.0013	mg/Kg	☼	07/28/17 05:40	07/28/17 14:08	1
1,2-Dichlorobenzene	ND		0.0041	0.0033	mg/Kg	☼	07/28/17 05:40	07/28/17 14:08	1
1,3-Dichlorobenzene	ND		0.0041	0.0013	mg/Kg	☼	07/28/17 05:40	07/28/17 14:08	1
1,4-Dichlorobenzene	ND		0.0041	0.00083	mg/Kg	☼	07/28/17 05:40	07/28/17 14:08	1
1,1-Dichloroethane	ND		0.0041	0.0015	mg/Kg	☼	07/28/17 05:40	07/28/17 14:08	1
1,2-Dichloroethane	ND		0.0041	0.0012	mg/Kg	☼	07/28/17 05:40	07/28/17 14:08	1
1,1-Dichloroethene	ND		0.0041	0.0023	mg/Kg	☼	07/28/17 05:40	07/28/17 14:08	1
Ethylbenzene	ND		0.0041	0.0018	mg/Kg	☼	07/28/17 05:40	07/28/17 14:08	1
Methylene Chloride	ND		0.0041	0.0019	mg/Kg	☼	07/28/17 05:40	07/28/17 14:08	1
Methyl tert-butyl ether	ND		0.0041	0.0030	mg/Kg	☼	07/28/17 05:40	07/28/17 14:08	1
n-Butylbenzene	ND		0.0041	0.0031	mg/Kg	☼	07/28/17 05:40	07/28/17 14:08	1
N-Propylbenzene	ND		0.0041	0.0017	mg/Kg	☼	07/28/17 05:40	07/28/17 14:08	1
sec-Butylbenzene	ND		0.0041	0.0020	mg/Kg	☼	07/28/17 05:40	07/28/17 14:08	1
tert-Butylbenzene	ND		0.0041	0.0015	mg/Kg	☼	07/28/17 05:40	07/28/17 14:08	1
Tetrachloroethene	ND		0.0041	0.0016	mg/Kg	☼	07/28/17 05:40	07/28/17 14:08	1
Toluene	ND		0.0041	0.0014	mg/Kg	☼	07/28/17 05:40	07/28/17 14:08	1
trans-1,2-Dichloroethene	ND		0.0041	0.0021	mg/Kg	☼	07/28/17 05:40	07/28/17 14:08	1
1,1,1-Trichloroethane	ND		0.0041	0.0021	mg/Kg	☼	07/28/17 05:40	07/28/17 14:08	1

Client Sample ID: WB6-7, S4, B 072617

Lab Sample ID: 180-68622-5
Date Collected: 07/26/17 15:05
Matrix: Solid
Date Received: 07/27/17 08:00
Percent Solids: 89.4

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	ND		0.0041	0.0012	mg/Kg	☼	07/28/17 05:40	07/28/17 14:08	1
1,2,4-Trimethylbenzene	ND		0.0041	0.0011	mg/Kg	☼	07/28/17 05:40	07/28/17 14:08	1
1,3,5-Trimethylbenzene	ND		0.0041	0.0014	mg/Kg	☼	07/28/17 05:40	07/28/17 14:08	1
Vinyl chloride	ND		0.0041	0.0030	mg/Kg	☼	07/28/17 05:40	07/28/17 14:08	1
Xylenes, Total	ND		0.0082	0.0035	mg/Kg	☼	07/28/17 05:40	07/28/17 14:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*63 - 120*	*07/28/17 05:40*	*07/28/17 14:08*	*1*
Dibromofluoromethane (Surr)	*103*		*68 - 121*	*07/28/17 05:40*	*07/28/17 14:08*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*52 - 124*	*07/28/17 05:40*	*07/28/17 14:08*	*1*
Toluene-d8 (Surr)	*113*		*72 - 127*	*07/28/17 05:40*	*07/28/17 14:08*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**10.6**		0.1	0.1	%			07/28/17 11:41	1
Percent Solids	**89.4**		0.1	0.1	%			07/28/17 11:41	1

Client Sample ID: WB6-7, S4, C 072617

Lab Sample ID: 180-68622-6
Date Collected: 07/26/17 15:10
Matrix: Solid
Date Received: 07/27/17 08:00
Percent Solids: 86.5

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.026**		0.0076	0.0025	mg/Kg	☼	08/01/17 03:39	08/01/17 17:52	1
Acenaphthylene	**0.032**		0.0076	0.0026	mg/Kg	☼	08/01/17 03:39	08/01/17 17:52	1
Anthracene	**0.10**		0.0076	0.0028	mg/Kg	☼	08/01/17 03:39	08/01/17 17:52	1
Benzo[a]anthracene	**0.22**		0.0076	0.0030	mg/Kg	☼	08/01/17 03:39	08/01/17 17:52	1
Benzo[a]pyrene	**0.20**		0.0076	0.0031	mg/Kg	☼	08/01/17 03:39	08/01/17 17:52	1
Benzo[b]fluoranthene	**0.23**		0.0076	0.0033	mg/Kg	☼	08/01/17 03:39	08/01/17 17:52	1
Benzo[g,h,i]perylene	**0.22**		0.0076	0.0033	mg/Kg	☼	08/01/17 03:39	08/01/17 17:52	1
Benzo[k]fluoranthene	**0.12**		0.0076	0.0026	mg/Kg	☼	08/01/17 03:39	08/01/17 17:52	1
Chrysene	**0.24**		0.0076	0.0030	mg/Kg	☼	08/01/17 03:39	08/01/17 17:52	1
Dibenz(a,h)anthracene	**0.050**		0.0076	0.0031	mg/Kg	☼	08/01/17 03:39	08/01/17 17:52	1
Dibenzofuran	**0.048**		0.037	0.0030	mg/Kg	☼	08/01/17 03:39	08/01/17 17:52	1
1,4-Dioxane	ND		0.076	0.0057	mg/Kg	☼	08/01/17 03:39	08/01/17 17:52	1
Fluoranthene	**0.48**		0.0076	0.0030	mg/Kg	☼	08/01/17 03:39	08/01/17 17:52	1
Fluorene	**0.043**		0.0076	0.0027	mg/Kg	☼	08/01/17 03:39	08/01/17 17:52	1
Hexachlorobenzene	ND		0.0076	0.0030	mg/Kg	☼	08/01/17 03:39	08/01/17 17:52	1
Indeno[1,2,3-cd]pyrene	**0.18**		0.0076	0.0029	mg/Kg	☼	08/01/17 03:39	08/01/17 17:52	1
2-Methylphenol	ND		0.037	0.0033	mg/Kg	☼	08/01/17 03:39	08/01/17 17:52	1
Methylphenol, 3 & 4	**0.0062**	**J**	0.037	0.0033	mg/Kg	☼	08/01/17 03:39	08/01/17 17:52	1
Naphthalene	**0.040**		0.0076	0.0027	mg/Kg	☼	08/01/17 03:39	08/01/17 17:52	1
Pentachlorophenol	ND		0.19	0.071	mg/Kg	☼	08/01/17 03:39	08/01/17 17:52	1
Phenanthrene	**0.25**		0.0076	0.0032	mg/Kg	☼	08/01/17 03:39	08/01/17 17:52	1
Phenol	ND		0.037	0.0051	mg/Kg	☼	08/01/17 03:39	08/01/17 17:52	1
Pyrene	**0.38**		0.0076	0.0034	mg/Kg	☼	08/01/17 03:39	08/01/17 17:52	1
Hexachloroethane	ND		37	2.7	ug/Kg	☼	08/01/17 03:39	08/01/17 17:52	1
Nitrobenzene	ND		76	2.9	ug/Kg	☼	08/01/17 03:39	08/01/17 17:52	1
Hexachlorobutadiene	ND		7.6	2.4	ug/Kg	☼	08/01/17 03:39	08/01/17 17:52	1
2,4,5-Trichlorophenol	ND		37	3.6	ug/Kg	☼	08/01/17 03:39	08/01/17 17:52	1

Client Sample ID: WB6-7, S4, C 072617 **Lab Sample ID: 180-68622-6**
Date Collected: 07/26/17 15:10 **Matrix: Solid**
Date Received: 07/27/17 08:00 **Percent Solids: 86.5**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,6-Trichlorophenol	ND		37	3.3	ug/Kg	☼	08/01/17 03:39	08/01/17 17:52	1
2,4-Dinitrotoluene	ND		37	5.0	ug/Kg	☼	08/01/17 03:39	08/01/17 17:52	1
Pyridine	ND		37	3.6	ug/Kg	☼	08/01/17 03:39	08/01/17 17:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*67*		*42 - 100*	*08/01/17 03:39*	*08/01/17 17:52*	*1*
2-Fluorophenol (Surr)	*60*		*21 - 107*	*08/01/17 03:39*	*08/01/17 17:52*	*1*
Nitrobenzene-d5 (Surr)	*58*		*35 - 109*	*08/01/17 03:39*	*08/01/17 17:52*	*1*
Phenol-d5 (Surr)	*60*		*29 - 105*	*08/01/17 03:39*	*08/01/17 17:52*	*1*
Terphenyl-d14 (Surr)	*66*		*36 - 113*	*08/01/17 03:39*	*08/01/17 17:52*	*1*
2,4,6-Tribromophenol (Surr)	*88*		*20 - 134*	*08/01/17 03:39*	*08/01/17 17:52*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.019	0.010	mg/Kg	☼	08/01/17 03:45	08/03/17 09:31	1
PCB-1221	ND		0.019	0.0098	mg/Kg	☼	08/01/17 03:45	08/03/17 09:31	1
PCB-1232	ND		0.019	0.0075	mg/Kg	☼	08/01/17 03:45	08/03/17 09:31	1
PCB-1242	ND		0.019	0.015	mg/Kg	☼	08/01/17 03:45	08/03/17 09:31	1
PCB-1248	**0.76**		0.019	0.0090	mg/Kg	☼	08/01/17 03:45	08/03/17 09:31	1
PCB-1254	**0.34**		0.019	0.0083	mg/Kg	☼	08/01/17 03:45	08/03/17 09:31	1
PCB-1260	**0.068**		0.019	0.013	mg/Kg	☼	08/01/17 03:45	08/03/17 09:31	1
PCB-1262	ND		0.019	0.014	mg/Kg	☼	08/01/17 03:45	08/03/17 09:31	1
PCB-1268	ND		0.019	0.0058	mg/Kg	☼	08/01/17 03:45	08/03/17 09:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*53*		*23 - 150*	*08/01/17 03:45*	*08/03/17 09:31*	*1*
DCB Decachlorobiphenyl (Surr)	*54*		*23 - 150*	*08/01/17 03:45*	*08/03/17 09:31*	*1*
Tetrachloro-m-xylene (Surr)	*48*		*27 - 138*	*08/01/17 03:45*	*08/03/17 09:31*	*1*
Tetrachloro-m-xylene (Surr)	*41*		*27 - 138*	*08/01/17 03:45*	*08/03/17 09:31*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**7.2**		1.1	0.48	mg/Kg	☼	07/28/17 10:54	07/31/17 14:16	1
Barium	**160**		22	5.8	mg/Kg	☼	07/28/17 10:54	07/31/17 14:16	1
Beryllium	**0.35**	**J**	0.43	0.11	mg/Kg	☼	07/28/17 10:54	07/31/17 14:16	1
Cadmium	**0.19**	**J**	0.54	0.12	mg/Kg	☼	07/28/17 10:54	07/31/17 14:16	1
Chromium	**15**		0.54	0.14	mg/Kg	☼	07/28/17 10:54	07/31/17 14:16	1
Copper	**120**		2.7	0.83	mg/Kg	☼	07/28/17 10:54	07/31/17 14:16	1
Lead	**110**		1.1	0.35	mg/Kg	☼	07/28/17 10:54	07/31/17 14:16	1
Manganese	**390**		1.6	0.44	mg/Kg	☼	07/28/17 10:54	07/31/17 14:16	1
Nickel	**46**		4.3	0.97	mg/Kg	☼	07/28/17 10:54	07/31/17 14:16	1
Selenium	**0.88**	**J ^**	1.1	0.43	mg/Kg	☼	07/28/17 10:54	07/31/17 14:16	1
Silver	ND		0.54	0.18	mg/Kg	☼	07/28/17 10:54	07/31/17 14:16	1
Zinc	**90**		2.2	1.1	mg/Kg	☼	07/28/17 10:54	07/31/17 14:16	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.058**		0.039	0.0088	mg/Kg	☼	07/31/17 08:10	07/31/17 13:45	1

Client Sample ID: WB6-7, S4, C 072617 — Lab Sample ID: 180-68622-6

Date Collected: 07/26/17 15:10 — **Matrix: Solid**
Date Received: 07/27/17 08:00 — **Percent Solids: 86.5**

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	13.5		0.1	0.1	%			07/28/17 11:41	1
Percent Solids	86.5		0.1	0.1	%			07/28/17 11:41	1
Cyanide, Total	0.48	J	0.56	0.17	mg/Kg	☼	08/02/17 13:35	08/03/17 11:19	1

Client Sample ID: TRIP BLANK#1 — Lab Sample ID: 180-68622-9

Date Collected: 07/26/17 00:00 — **Matrix: Water**
Date Received: 07/27/17 08:00

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	3.8	J	5.0	3.1	ug/L			07/31/17 09:12	1
Benzene	ND		1.0	0.18	ug/L			07/31/17 09:12	1
2-Butanone (MEK)	ND		5.0	2.6	ug/L			07/31/17 09:12	1
Carbon tetrachloride	ND		1.0	0.56	ug/L			07/31/17 09:12	1
Chlorobenzene	ND		1.0	0.15	ug/L			07/31/17 09:12	1
Chloroform	ND		1.0	0.27	ug/L			07/31/17 09:12	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			07/31/17 09:12	1
1,2-Dichlorobenzene	ND		1.0	0.23	ug/L			07/31/17 09:12	1
1,3-Dichlorobenzene	ND		1.0	0.21	ug/L			07/31/17 09:12	1
1,4-Dichlorobenzene	ND		1.0	0.24	ug/L			07/31/17 09:12	1
1,1-Dichloroethane	ND		1.0	0.34	ug/L			07/31/17 09:12	1
1,2-Dichloroethane	ND		1.0	0.24	ug/L			07/31/17 09:12	1
1,1-Dichloroethene	ND		1.0	0.32	ug/L			07/31/17 09:12	1
Ethylbenzene	ND		1.0	0.25	ug/L			07/31/17 09:12	1
Methylene Chloride	ND		1.0	0.94	ug/L			07/31/17 09:12	1
Methyl tert-butyl ether	ND		1.0	0.20	ug/L			07/31/17 09:12	1
n-Butylbenzene	ND		1.0	0.22	ug/L			07/31/17 09:12	1
N-Propylbenzene	ND		1.0	0.20	ug/L			07/31/17 09:12	1
sec-Butylbenzene	ND		1.0	0.22	ug/L			07/31/17 09:12	1
tert-Butylbenzene	ND		1.0	0.17	ug/L			07/31/17 09:12	1
Tetrachloroethene	ND		1.0	0.24	ug/L			07/31/17 09:12	1
Toluene	ND		1.0	0.16	ug/L			07/31/17 09:12	1
trans-1,2-Dichloroethene	ND		1.0	0.20	ug/L			07/31/17 09:12	1
1,1,1-Trichloroethane	ND		1.0	0.27	ug/L			07/31/17 09:12	1
Trichloroethene	ND		1.0	0.20	ug/L			07/31/17 09:12	1
1,2,4-Trimethylbenzene	ND		1.0	0.18	ug/L			07/31/17 09:12	1
1,3,5-Trimethylbenzene	ND		1.0	0.17	ug/L			07/31/17 09:12	1
Vinyl chloride	ND		1.0	0.17	ug/L			07/31/17 09:12	1
Xylenes, Total	ND		2.0	0.27	ug/L			07/31/17 09:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*72 - 120*		*07/31/17 09:12*	*1*
Dibromofluoromethane (Surr)	*93*		*77 - 127*		*07/31/17 09:12*	*1*
1,2-Dichloroethane-d4 (Surr)	*85*		*72 - 134*		*07/31/17 09:12*	*1*
Toluene-d8 (Surr)	*93*		*80 - 120*		*07/31/17 09:12*	*1*

Method: 8260C - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 180-218548/5
Matrix: Water
Analysis Batch: 218548

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		5.0	3.1	ug/L			07/31/17 02:23	1
Benzene	ND		1.0	0.18	ug/L			07/31/17 02:23	1
2-Butanone (MEK)	ND		5.0	2.6	ug/L			07/31/17 02:23	1
Carbon tetrachloride	ND		1.0	0.56	ug/L			07/31/17 02:23	1
Chlorobenzene	ND		1.0	0.15	ug/L			07/31/17 02:23	1
Chloroform	ND		1.0	0.27	ug/L			07/31/17 02:23	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			07/31/17 02:23	1
1,2-Dichlorobenzene	ND		1.0	0.23	ug/L			07/31/17 02:23	1
1,3-Dichlorobenzene	ND		1.0	0.21	ug/L			07/31/17 02:23	1
1,4-Dichlorobenzene	ND		1.0	0.24	ug/L			07/31/17 02:23	1
1,1-Dichloroethane	ND		1.0	0.34	ug/L			07/31/17 02:23	1
1,2-Dichloroethane	ND		1.0	0.24	ug/L			07/31/17 02:23	1
1,1-Dichloroethene	ND		1.0	0.32	ug/L			07/31/17 02:23	1
Ethylbenzene	ND		1.0	0.25	ug/L			07/31/17 02:23	1
Methylene Chloride	ND		1.0	0.94	ug/L			07/31/17 02:23	1
Methyl tert-butyl ether	ND		1.0	0.20	ug/L			07/31/17 02:23	1
n-Butylbenzene	ND		1.0	0.22	ug/L			07/31/17 02:23	1
N-Propylbenzene	ND		1.0	0.20	ug/L			07/31/17 02:23	1
sec-Butylbenzene	ND		1.0	0.22	ug/L			07/31/17 02:23	1
tert-Butylbenzene	ND		1.0	0.17	ug/L			07/31/17 02:23	1
Tetrachloroethene	ND		1.0	0.24	ug/L			07/31/17 02:23	1
Toluene	ND		1.0	0.16	ug/L			07/31/17 02:23	1
trans-1,2-Dichloroethene	ND		1.0	0.20	ug/L			07/31/17 02:23	1
1,1,1-Trichloroethane	ND		1.0	0.27	ug/L			07/31/17 02:23	1
Trichloroethene	ND		1.0	0.20	ug/L			07/31/17 02:23	1
1,2,4-Trimethylbenzene	ND		1.0	0.18	ug/L			07/31/17 02:23	1
1,3,5-Trimethylbenzene	ND		1.0	0.17	ug/L			07/31/17 02:23	1
Vinyl chloride	ND		1.0	0.17	ug/L			07/31/17 02:23	1
Xylenes, Total	ND		2.0	0.27	ug/L			07/31/17 02:23	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*72 - 120*		*07/31/17 02:23*	*1*
Dibromofluoromethane (Surr)	*86*		*77 - 127*		*07/31/17 02:23*	*1*
1,2-Dichloroethane-d4 (Surr)	*86*		*72 - 134*		*07/31/17 02:23*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*		*07/31/17 02:23*	*1*

Lab Sample ID: LCS 180-218548/3
Matrix: Water
Analysis Batch: 218548

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	20.0	14.6		ug/L		73	10 - 150
Benzene	10.0	9.82		ug/L		98	80 - 121
2-Butanone (MEK)	20.0	17.3		ug/L		87	41 - 150
Carbon tetrachloride	10.0	12.2		ug/L		122	59 - 145
Chlorobenzene	10.0	10.9		ug/L		109	80 - 120
Chloroform	10.0	9.65		ug/L		96	78 - 122
cis-1,2-Dichloroethene	10.0	9.47		ug/L		95	80 - 120

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 180-218548/3
Matrix: Water
Analysis Batch: 218548

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichlorobenzene	10.0	9.60		ug/L		96	80 - 120
1,3-Dichlorobenzene	10.0	9.83		ug/L		98	80 - 120
1,4-Dichlorobenzene	10.0	9.98		ug/L		100	80 - 120
1,1-Dichloroethane	10.0	10.7		ug/L		107	76 - 126
1,2-Dichloroethane	10.0	9.55		ug/L		96	72 - 126
1,1-Dichloroethene	10.0	10.7		ug/L		107	71 - 122
Ethylbenzene	10.0	10.7		ug/L		107	80 - 123
Methylene Chloride	10.0	9.12		ug/L		91	71 - 129
Methyl tert-butyl ether	10.0	9.15		ug/L		92	68 - 124
n-Butylbenzene	10.0	9.88		ug/L		99	75 - 120
N-Propylbenzene	10.0	10.9		ug/L		109	78 - 121
sec-Butylbenzene	10.0	10.7		ug/L		107	80 - 121
tert-Butylbenzene	10.0	11.0		ug/L		110	79 - 120
Tetrachloroethene	10.0	10.8		ug/L		108	80 - 122
Toluene	10.0	10.7		ug/L		107	80 - 125
trans-1,2-Dichloroethene	10.0	10.2		ug/L		102	80 - 121
1,1,1-Trichloroethane	10.0	10.4		ug/L		104	57 - 128
Trichloroethene	10.0	11.1		ug/L		111	79 - 120
1,2,4-Trimethylbenzene	10.0	10.1		ug/L		101	80 - 120
1,3,5-Trimethylbenzene	10.0	10.3		ug/L		103	80 - 122
Vinyl chloride	10.0	8.95		ug/L		90	61 - 138
Xylenes, Total	20.0	21.2		ug/L		106	80 - 123

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*72 - 120*
Dibromofluoromethane (Surr)	*95*		*77 - 127*
1,2-Dichloroethane-d4 (Surr)	*90*		*72 - 134*
Toluene-d8 (Surr)	*106*		*80 - 120*

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 180-218353/9
Matrix: Solid
Analysis Batch: 218353

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.020	0.0032	mg/Kg			07/28/17 09:13	1
Benzene	ND		0.0050	0.0020	mg/Kg			07/28/17 09:13	1
2-Butanone (MEK)	ND		0.0050	0.0029	mg/Kg			07/28/17 09:13	1
Carbon tetrachloride	ND		0.0050	0.0033	mg/Kg			07/28/17 09:13	1
Chlorobenzene	ND		0.0050	0.0016	mg/Kg			07/28/17 09:13	1
Chloroform	ND		0.0050	0.0021	mg/Kg			07/28/17 09:13	1
cis-1,2-Dichloroethene	ND		0.0050	0.0016	mg/Kg			07/28/17 09:13	1
1,2-Dichlorobenzene	ND		0.0050	0.0040	mg/Kg			07/28/17 09:13	1
1,3-Dichlorobenzene	ND		0.0050	0.0016	mg/Kg			07/28/17 09:13	1
1,4-Dichlorobenzene	ND		0.0050	0.0010	mg/Kg			07/28/17 09:13	1
1,1-Dichloroethane	ND		0.0050	0.0018	mg/Kg			07/28/17 09:13	1
1,2-Dichloroethane	ND		0.0050	0.0015	mg/Kg			07/28/17 09:13	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 180-218353/9
Matrix: Solid
Analysis Batch: 218353

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		0.0050	0.0029	mg/Kg			07/28/17 09:13	1
Ethylbenzene	ND		0.0050	0.0022	mg/Kg			07/28/17 09:13	1
Methylene Chloride	ND		0.0050	0.0024	mg/Kg			07/28/17 09:13	1
Methyl tert-butyl ether	ND		0.0050	0.0037	mg/Kg			07/28/17 09:13	1
n-Butylbenzene	ND		0.0050	0.0038	mg/Kg			07/28/17 09:13	1
N-Propylbenzene	ND		0.0050	0.0021	mg/Kg			07/28/17 09:13	1
sec-Butylbenzene	ND		0.0050	0.0024	mg/Kg			07/28/17 09:13	1
tert-Butylbenzene	ND		0.0050	0.0018	mg/Kg			07/28/17 09:13	1
Tetrachloroethene	ND		0.0050	0.0020	mg/Kg			07/28/17 09:13	1
Toluene	ND		0.0050	0.0017	mg/Kg			07/28/17 09:13	1
trans-1,2-Dichloroethene	ND		0.0050	0.0025	mg/Kg			07/28/17 09:13	1
1,1,1-Trichloroethane	ND		0.0050	0.0025	mg/Kg			07/28/17 09:13	1
Trichloroethene	ND		0.0050	0.0015	mg/Kg			07/28/17 09:13	1
1,2,4-Trimethylbenzene	ND		0.0050	0.0013	mg/Kg			07/28/17 09:13	1
1,3,5-Trimethylbenzene	ND		0.0050	0.0017	mg/Kg			07/28/17 09:13	1
Vinyl chloride	ND		0.0050	0.0037	mg/Kg			07/28/17 09:13	1
Xylenes, Total	ND		0.010	0.0043	mg/Kg			07/28/17 09:13	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*63 - 120*		*07/28/17 09:13*	*1*
Dibromofluoromethane (Surr)	*104*		*68 - 121*		*07/28/17 09:13*	*1*
1,2-Dichloroethane-d4 (Surr)	*118*		*52 - 124*		*07/28/17 09:13*	*1*
Toluene-d8 (Surr)	*107*		*72 - 127*		*07/28/17 09:13*	*1*

Lab Sample ID: LCS 180-218353/4
Matrix: Solid
Analysis Batch: 218353

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0400	0.0409		mg/Kg		102	20 - 150
Benzene	0.0400	0.0403		mg/Kg		101	77 - 120
2-Butanone (MEK)	0.0400	0.0399		mg/Kg		100	35 - 149
Carbon tetrachloride	0.0400	0.0443		mg/Kg		111	69 - 122
Chlorobenzene	0.0400	0.0409		mg/Kg		102	79 - 120
Chloroform	0.0400	0.0422		mg/Kg		106	72 - 120
cis-1,2-Dichloroethene	0.0400	0.0404		mg/Kg		101	80 - 118
1,2-Dichlorobenzene	0.0400	0.0407		mg/Kg		102	71 - 124
1,3-Dichlorobenzene	0.0400	0.0403		mg/Kg		101	75 - 118
1,4-Dichlorobenzene	0.0400	0.0401		mg/Kg		100	77 - 116
1,1-Dichloroethane	0.0400	0.0422		mg/Kg		105	66 - 124
1,2-Dichloroethane	0.0400	0.0445		mg/Kg		111	61 - 127
1,1-Dichloroethene	0.0400	0.0393		mg/Kg		98	59 - 129
Ethylbenzene	0.0400	0.0412		mg/Kg		103	78 - 125
Methylene Chloride	0.0400	0.0399		mg/Kg		100	58 - 127
Methyl tert-butyl ether	0.0400	0.0419		mg/Kg		105	48 - 132
n-Butylbenzene	0.0400	0.0458		mg/Kg		114	59 - 145
N-Propylbenzene	0.0400	0.0425		mg/Kg		106	80 - 120
sec-Butylbenzene	0.0400	0.0441		mg/Kg		110	70 - 130

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 180-218353/4
Matrix: Solid
Analysis Batch: 218353

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
tert-Butylbenzene			0.0400	0.0439		mg/Kg		110	74 - 133		
Tetrachloroethene			0.0400	0.0395		mg/Kg		99	78 - 129		
Toluene			0.0400	0.0412		mg/Kg		103	78 - 124		
trans-1,2-Dichloroethene			0.0400	0.0403		mg/Kg		101	77 - 121		
1,1,1-Trichloroethane			0.0400	0.0443		mg/Kg		111	67 - 126		
Trichloroethene			0.0400	0.0398		mg/Kg		99	76 - 119		
1,2,4-Trimethylbenzene			0.0400	0.0430		mg/Kg		107	80 - 121		
1,3,5-Trimethylbenzene			0.0400	0.0429		mg/Kg		107	68 - 133		
Vinyl chloride			0.0400	0.0315		mg/Kg		79	63 - 124		
Xylenes, Total			0.0800	0.0811		mg/Kg		101	83 - 126		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*63 - 120*
Dibromofluoromethane (Surr)	*104*		*68 - 121*
1,2-Dichloroethane-d4 (Surr)	*108*		*52 - 124*
Toluene-d8 (Surr)	*104*		*72 - 127*

Lab Sample ID: LCSD 180-218353/5
Matrix: Solid
Analysis Batch: 218353

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone			0.0400	0.0405		mg/Kg		101	20 - 150	1	40
Benzene			0.0400	0.0414		mg/Kg		104	77 - 120	3	20
2-Butanone (MEK)			0.0400	0.0395		mg/Kg		99	35 - 149	1	36
Carbon tetrachloride			0.0400	0.0459		mg/Kg		115	69 - 122	3	22
Chlorobenzene			0.0400	0.0424		mg/Kg		106	79 - 120	4	20
Chloroform			0.0400	0.0438		mg/Kg		109	72 - 120	4	25
cis-1,2-Dichloroethene			0.0400	0.0413		mg/Kg		103	80 - 118	2	20
1,2-Dichlorobenzene			0.0400	0.0424		mg/Kg		106	71 - 124	4	22
1,3-Dichlorobenzene			0.0400	0.0420		mg/Kg		105	75 - 118	4	20
1,4-Dichlorobenzene			0.0400	0.0418		mg/Kg		105	77 - 116	4	20
1,1-Dichloroethane			0.0400	0.0436		mg/Kg		109	66 - 124	3	23
1,2-Dichloroethane			0.0400	0.0464		mg/Kg		116	61 - 127	4	23
1,1-Dichloroethene			0.0400	0.0403		mg/Kg		101	59 - 129	2	25
Ethylbenzene			0.0400	0.0425		mg/Kg		106	78 - 125	3	21
Methylene Chloride			0.0400	0.0417		mg/Kg		104	58 - 127	4	28
Methyl tert-butyl ether			0.0400	0.0446		mg/Kg		111	48 - 132	6	36
n-Butylbenzene			0.0400	0.0473		mg/Kg		118	59 - 145	3	24
N-Propylbenzene			0.0400	0.0439		mg/Kg		110	80 - 120	3	20
sec-Butylbenzene			0.0400	0.0457		mg/Kg		114	70 - 130	3	21
tert-Butylbenzene			0.0400	0.0456		mg/Kg		114	74 - 133	4	22
Tetrachloroethene			0.0400	0.0408		mg/Kg		102	78 - 129	3	20
Toluene			0.0400	0.0424		mg/Kg		106	78 - 124	3	21
trans-1,2-Dichloroethene			0.0400	0.0415		mg/Kg		104	77 - 121	3	20
1,1,1-Trichloroethane			0.0400	0.0472		mg/Kg		118	67 - 126	6	31
Trichloroethene			0.0400	0.0411		mg/Kg		103	76 - 119	3	21
1,2,4-Trimethylbenzene			0.0400	0.0445		mg/Kg		111	80 - 121	4	20

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 180-218353/5
Matrix: Solid
Analysis Batch: 218353

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,3,5-Trimethylbenzene			0.0400	0.0447		mg/Kg		112	68 - 133	4	21
Vinyl chloride			0.0400	0.0336		mg/Kg		84	63 - 124	6	27
Xylenes, Total			0.0800	0.0838		mg/Kg		105	83 - 126	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*107*		*63 - 120*
Dibromofluoromethane (Surr)	*107*		*68 - 121*
1,2-Dichloroethane-d4 (Surr)	*114*		*52 - 124*
Toluene-d8 (Surr)	*107*		*72 - 127*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Lab Sample ID: MB 180-218664/1-A
Matrix: Solid
Analysis Batch: 218731

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 218664

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0034	0.0011	mg/Kg		08/01/17 03:39	08/01/17 13:21	1
Acenaphthylene	ND		0.0034	0.0011	mg/Kg		08/01/17 03:39	08/01/17 13:21	1
Anthracene	ND		0.0034	0.0012	mg/Kg		08/01/17 03:39	08/01/17 13:21	1
Benzo[a]anthracene	ND		0.0034	0.0013	mg/Kg		08/01/17 03:39	08/01/17 13:21	1
Benzo[a]pyrene	ND		0.0034	0.0014	mg/Kg		08/01/17 03:39	08/01/17 13:21	1
Benzo[b]fluoranthene	ND		0.0034	0.0014	mg/Kg		08/01/17 03:39	08/01/17 13:21	1
Benzo[g,h,i]perylene	ND		0.0034	0.0014	mg/Kg		08/01/17 03:39	08/01/17 13:21	1
Benzo[k]fluoranthene	ND		0.0034	0.0012	mg/Kg		08/01/17 03:39	08/01/17 13:21	1
Chrysene	ND		0.0034	0.0013	mg/Kg		08/01/17 03:39	08/01/17 13:21	1
Dibenz(a,h)anthracene	ND		0.0034	0.0014	mg/Kg		08/01/17 03:39	08/01/17 13:21	1
Dibenzofuran	ND		0.017	0.0013	mg/Kg		08/01/17 03:39	08/01/17 13:21	1
1,4-Dioxane	ND		0.033	0.0025	mg/Kg		08/01/17 03:39	08/01/17 13:21	1
Fluoranthene	ND		0.0034	0.0013	mg/Kg		08/01/17 03:39	08/01/17 13:21	1
Fluorene	ND		0.0034	0.0012	mg/Kg		08/01/17 03:39	08/01/17 13:21	1
Hexachlorobenzene	ND		0.0034	0.0013	mg/Kg		08/01/17 03:39	08/01/17 13:21	1
Indeno[1,2,3-cd]pyrene	ND		0.0034	0.0013	mg/Kg		08/01/17 03:39	08/01/17 13:21	1
2-Methylphenol	ND		0.017	0.0015	mg/Kg		08/01/17 03:39	08/01/17 13:21	1
Methylphenol, 3 & 4	ND		0.017	0.0015	mg/Kg		08/01/17 03:39	08/01/17 13:21	1
Naphthalene	ND		0.0034	0.0012	mg/Kg		08/01/17 03:39	08/01/17 13:21	1
Pentachlorophenol	ND		0.085	0.032	mg/Kg		08/01/17 03:39	08/01/17 13:21	1
Phenanthrene	ND		0.0034	0.0014	mg/Kg		08/01/17 03:39	08/01/17 13:21	1
Phenol	ND		0.017	0.0023	mg/Kg		08/01/17 03:39	08/01/17 13:21	1
Pyrene	ND		0.0034	0.0015	mg/Kg		08/01/17 03:39	08/01/17 13:21	1
Hexachloroethane	ND		17	1.2	ug/Kg		08/01/17 03:39	08/01/17 13:21	1
Nitrobenzene	ND		33	1.3	ug/Kg		08/01/17 03:39	08/01/17 13:21	1
Hexachlorobutadiene	ND		3.4	1.1	ug/Kg		08/01/17 03:39	08/01/17 13:21	1
2,4,5-Trichlorophenol	ND		17	1.6	ug/Kg		08/01/17 03:39	08/01/17 13:21	1
2,4,6-Trichlorophenol	ND		17	1.5	ug/Kg		08/01/17 03:39	08/01/17 13:21	1
2,4-Dinitrotoluene	ND		17	2.2	ug/Kg		08/01/17 03:39	08/01/17 13:21	1
Pyridine	ND		17	1.6	ug/Kg		08/01/17 03:39	08/01/17 13:21	1

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: MB 180-218664/1-A
Matrix: Solid
Analysis Batch: 218731

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 218664

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	69		42 - 100	08/01/17 03:39	08/01/17 13:21	1
2-Fluorophenol (Surr)	75		21 - 107	08/01/17 03:39	08/01/17 13:21	1
Nitrobenzene-d5 (Surr)	65		35 - 109	08/01/17 03:39	08/01/17 13:21	1
Phenol-d5 (Surr)	67		29 - 105	08/01/17 03:39	08/01/17 13:21	1
Terphenyl-d14 (Surr)	64		36 - 113	08/01/17 03:39	08/01/17 13:21	1
2,4,6-Tribromophenol (Surr)	80		20 - 134	08/01/17 03:39	08/01/17 13:21	1

Lab Sample ID: LCS 180-218664/2-A
Matrix: Solid
Analysis Batch: 218731

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 218664

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	0.333	0.195		mg/Kg		59	39 - 100
Acenaphthylene	0.333	0.207		mg/Kg		62	42 - 100
Anthracene	0.333	0.201		mg/Kg		60	43 - 100
Benzo[a]anthracene	0.333	0.207		mg/Kg		62	43 - 100
Benzo[a]pyrene	0.333	0.217		mg/Kg		65	43 - 100
Benzo[b]fluoranthene	0.333	0.198		mg/Kg		60	40 - 100
Benzo[g,h,i]perylene	0.333	0.231		mg/Kg		69	41 - 102
Benzo[k]fluoranthene	0.333	0.205		mg/Kg		62	44 - 100
Chrysene	0.333	0.215		mg/Kg		64	44 - 100
Dibenz(a,h)anthracene	0.333	0.228		mg/Kg		68	40 - 104
Dibenzofuran	0.333	0.216		mg/Kg		65	42 - 100
1,4-Dioxane	0.333	0.259		mg/Kg		78	19 - 107
Fluoranthene	0.333	0.223		mg/Kg		67	41 - 104
Fluorene	0.333	0.217		mg/Kg		65	41 - 100
Hexachlorobenzene	0.333	0.216		mg/Kg		65	43 - 100
Indeno[1,2,3-cd]pyrene	0.333	0.230		mg/Kg		69	41 - 104
2-Methylphenol	0.333	0.209		mg/Kg		63	38 - 100
Methylphenol, 3 & 4	0.333	0.211		mg/Kg		63	40 - 100
Naphthalene	0.333	0.209		mg/Kg		63	38 - 100
Pentachlorophenol	0.667	0.405		mg/Kg		61	34 - 102
Phenanthrene	0.333	0.197		mg/Kg		59	41 - 100
Phenol	0.333	0.198		mg/Kg		59	36 - 100
Pyrene	0.333	0.198		mg/Kg		59	42 - 100
Hexachloroethane	333	214		ug/Kg		64	35 - 100
Nitrobenzene	333	185		ug/Kg		56	34 - 100
Hexachlorobutadiene	333	259		ug/Kg		78	35 - 100
2,4,5-Trichlorophenol	333	216		ug/Kg		65	42 - 100
2,4,6-Trichlorophenol	333	224		ug/Kg		67	41 - 103
2,4-Dinitrotoluene	333	250		ug/Kg		75	42 - 110
Pyridine	667	545		ug/Kg		82	25 - 119

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	60		42 - 100
2-Fluorophenol (Surr)	72		21 - 107
Nitrobenzene-d5 (Surr)	56		35 - 109

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCS 180-218664/2-A
Matrix: Solid
Analysis Batch: 218731

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 218664

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Phenol-d5 (Surr)	*62*		*29 - 105*
Terphenyl-d14 (Surr)	*63*		*36 - 113*
2,4,6-Tribromophenol (Surr)	*69*		*20 - 134*

Lab Sample ID: 180-68622-3 MS
Matrix: Solid
Analysis Batch: 218731

Client Sample ID: WB6-7, S3, C 072617
Prep Type: Total/NA
Prep Batch: 218664

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	0.027		0.775	0.507		mg/Kg	☼	62	39 - 100
Acenaphthylene	0.040		0.775	0.529		mg/Kg	☼	63	42 - 100
Anthracene	0.082		0.775	0.583		mg/Kg	☼	65	43 - 100
Benzo[a]anthracene	0.27		0.775	0.735		mg/Kg	☼	60	43 - 100
Benzo[a]pyrene	0.27		0.775	0.737		mg/Kg	☼	60	43 - 100
Benzo[b]fluoranthene	0.34		0.775	0.707		mg/Kg	☼	47	40 - 100
Benzo[g,h,i]perylene	0.26		0.775	0.893		mg/Kg	☼	81	41 - 102
Benzo[k]fluoranthene	0.14		0.775	0.621		mg/Kg	☼	62	44 - 100
Chrysene	0.31		0.775	0.764		mg/Kg	☼	59	44 - 100
Dibenz(a,h)anthracene	0.057		0.775	0.713		mg/Kg	☼	85	40 - 104
Dibenzofuran	0.020	J	0.775	0.553		mg/Kg	☼	69	42 - 100
1,4-Dioxane	ND		0.775	0.490		mg/Kg	☼	63	19 - 107
Fluoranthene	0.50		0.775	0.898		mg/Kg	☼	51	41 - 104
Fluorene	0.029		0.775	0.558		mg/Kg	☼	68	41 - 100
Hexachlorobenzene	ND		0.775	0.565		mg/Kg	☼	73	43 - 100
Indeno[1,2,3-cd]pyrene	0.22		0.775	0.829		mg/Kg	☼	79	41 - 104
2-Methylphenol	ND		0.775	0.463		mg/Kg	☼	60	38 - 100
Methylphenol, 3 & 4	ND		0.775	0.506		mg/Kg	☼	65	40 - 100
Naphthalene	0.023		0.775	0.504		mg/Kg	☼	62	38 - 100
Pentachlorophenol	ND		1.55	1.05		mg/Kg	☼	68	34 - 102
Phenanthrene	0.23		0.775	0.667		mg/Kg	☼	56	41 - 100
Phenol	ND		0.775	0.457		mg/Kg	☼	59	36 - 100
Pyrene	0.40		0.775	0.757		mg/Kg	☼	47	42 - 100
Hexachloroethane	ND		775	471		ug/Kg	☼	61	35 - 100
Nitrobenzene	ND		775	427		ug/Kg	☼	55	34 - 100
Hexachlorobutadiene	ND		775	591		ug/Kg	☼	76	35 - 100
2,4,5-Trichlorophenol	ND		775	562		ug/Kg	☼	73	42 - 100
2,4,6-Trichlorophenol	ND		775	542		ug/Kg	☼	70	41 - 103
2,4-Dinitrotoluene	ND		775	628		ug/Kg	☼	81	42 - 110
Pyridine	ND		1550	595		ug/Kg	☼	38	25 - 119

Surrogate	MS %Recovery	MS Qualifier	Limits
2-Fluorobiphenyl	*64*		*42 - 100*
2-Fluorophenol (Surr)	*68*		*21 - 107*
Nitrobenzene-d5 (Surr)	*58*		*35 - 109*
Phenol-d5 (Surr)	*63*		*29 - 105*
Terphenyl-d14 (Surr)	*65*		*36 - 113*
2,4,6-Tribromophenol (Surr)	*85*		*20 - 134*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: 180-68622-3 MSD
Matrix: Solid
Analysis Batch: 218731

Client Sample ID: WB6-7, S3, C 072617
Prep Type: Total/NA
Prep Batch: 218664

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	0.027		0.780	0.517		mg/Kg	☼	63	39 - 100	2	20
Acenaphthylene	0.040		0.780	0.536		mg/Kg	☼	64	42 - 100	1	20
Anthracene	0.082		0.780	0.603		mg/Kg	☼	67	43 - 100	3	20
Benzo[a]anthracene	0.27		0.780	0.748		mg/Kg	☼	61	43 - 100	2	20
Benzo[a]pyrene	0.27		0.780	0.759		mg/Kg	☼	62	43 - 100	3	20
Benzo[b]fluoranthene	0.34		0.780	0.744		mg/Kg	☼	52	40 - 100	5	20
Benzo[g,h,i]perylene	0.26		0.780	0.958		mg/Kg	☼	89	41 - 102	7	20
Benzo[k]fluoranthene	0.14		0.780	0.623		mg/Kg	☼	62	44 - 100	0	20
Chrysene	0.31		0.780	0.833		mg/Kg	☼	67	44 - 100	9	20
Dibenz(a,h)anthracene	0.057		0.780	0.768		mg/Kg	☼	91	40 - 104	7	26
Dibenzofuran	0.020	J	0.780	0.564		mg/Kg	☼	70	42 - 100	2	23
1,4-Dioxane	ND		0.780	0.505		mg/Kg	☼	65	19 - 107	3	20
Fluoranthene	0.50		0.780	0.952		mg/Kg	☼	58	41 - 104	6	20
Fluorene	0.029		0.780	0.566		mg/Kg	☼	69	41 - 100	1	21
Hexachlorobenzene	ND		0.780	0.586		mg/Kg	☼	75	43 - 100	4	21
Indeno[1,2,3-cd]pyrene	0.22		0.780	0.891		mg/Kg	☼	86	41 - 104	7	25
2-Methylphenol	ND		0.780	0.486		mg/Kg	☼	62	38 - 100	5	20
Methylphenol, 3 & 4	ND		0.780	0.510		mg/Kg	☼	65	40 - 100	1	20
Naphthalene	0.023		0.780	0.516		mg/Kg	☼	63	38 - 100	2	20
Pentachlorophenol	ND		1.56	1.10		mg/Kg	☼	71	34 - 102	5	20
Phenanthrene	0.23		0.780	0.693		mg/Kg	☼	59	41 - 100	4	20
Phenol	ND		0.780	0.471		mg/Kg	☼	60	36 - 100	3	20
Pyrene	0.40		0.780	0.781		mg/Kg	☼	49	42 - 100	3	21
Hexachloroethane	ND		780	482		ug/Kg	☼	62	35 - 100	2	20
Nitrobenzene	ND		780	432		ug/Kg	☼	55	34 - 100	1	20
Hexachlorobutadiene	ND		780	611		ug/Kg	☼	78	35 - 100	3	20
2,4,5-Trichlorophenol	ND		780	583		ug/Kg	☼	75	42 - 100	4	22
2,4,6-Trichlorophenol	ND		780	578		ug/Kg	☼	74	41 - 103	6	25
2,4-Dinitrotoluene	ND		780	641		ug/Kg	☼	82	42 - 110	2	21
Pyridine	ND		1560	607		ug/Kg	☼	39	25 - 119	2	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl	*63*		*42 - 100*
2-Fluorophenol (Surr)	*68*		*21 - 107*
Nitrobenzene-d5 (Surr)	*60*		*35 - 109*
Phenol-d5 (Surr)	*65*		*29 - 105*
Terphenyl-d14 (Surr)	*68*		*36 - 113*
2,4,6-Tribromophenol (Surr)	*87*		*20 - 134*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 180-218666/1-A
Matrix: Solid
Analysis Batch: 218951

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 218666

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.017	0.0088	mg/Kg		08/01/17 03:45	08/03/17 08:33	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: MB 180-218666/1-A
Matrix: Solid
Analysis Batch: 218951

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 218666

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1221	ND		0.017	0.0086	mg/Kg		08/01/17 03:45	08/03/17 08:33	1
PCB-1232	ND		0.017	0.0066	mg/Kg		08/01/17 03:45	08/03/17 08:33	1
PCB-1242	ND		0.017	0.013	mg/Kg		08/01/17 03:45	08/03/17 08:33	1
PCB-1248	ND		0.017	0.0080	mg/Kg		08/01/17 03:45	08/03/17 08:33	1
PCB-1254	ND		0.017	0.0073	mg/Kg		08/01/17 03:45	08/03/17 08:33	1
PCB-1260	ND		0.017	0.011	mg/Kg		08/01/17 03:45	08/03/17 08:33	1
PCB-1262	ND		0.017	0.012	mg/Kg		08/01/17 03:45	08/03/17 08:33	1
PCB-1268	ND		0.017	0.0051	mg/Kg		08/01/17 03:45	08/03/17 08:33	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*84*		*23 - 150*	*08/01/17 03:45*	*08/03/17 08:33*	*1*
DCB Decachlorobiphenyl (Surr)	*86*		*23 - 150*	*08/01/17 03:45*	*08/03/17 08:33*	*1*
Tetrachloro-m-xylene (Surr)	*95*		*27 - 138*	*08/01/17 03:45*	*08/03/17 08:33*	*1*
Tetrachloro-m-xylene (Surr)	*87*		*27 - 138*	*08/01/17 03:45*	*08/03/17 08:33*	*1*

Lab Sample ID: LCS 180-218666/2-A
Matrix: Solid
Analysis Batch: 218951

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 218666

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	1.33	1.14		mg/Kg		85	52 - 126
PCB-1260	1.33	1.10		mg/Kg		83	50 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*80*		*23 - 150*
DCB Decachlorobiphenyl (Surr)	*83*		*23 - 150*
Tetrachloro-m-xylene (Surr)	*88*		*27 - 138*
Tetrachloro-m-xylene (Surr)	*81*		*27 - 138*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 180-218412/1-A
Matrix: Solid
Analysis Batch: 218674

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 218412

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		1.0	0.44	mg/Kg		07/28/17 10:54	07/31/17 14:01	1
Barium	ND		20	5.4	mg/Kg		07/28/17 10:54	07/31/17 14:01	1
Beryllium	ND		0.40	0.10	mg/Kg		07/28/17 10:54	07/31/17 14:01	1
Cadmium	ND		0.50	0.11	mg/Kg		07/28/17 10:54	07/31/17 14:01	1
Chromium	ND		0.50	0.13	mg/Kg		07/28/17 10:54	07/31/17 14:01	1
Copper	ND		2.5	0.77	mg/Kg		07/28/17 10:54	07/31/17 14:01	1
Lead	ND		1.0	0.33	mg/Kg		07/28/17 10:54	07/31/17 14:01	1
Manganese	ND		1.5	0.41	mg/Kg		07/28/17 10:54	07/31/17 14:01	1
Nickel	ND		4.0	0.90	mg/Kg		07/28/17 10:54	07/31/17 14:01	1
Selenium	ND	^	1.0	0.40	mg/Kg		07/28/17 10:54	07/31/17 14:01	1
Silver	ND		0.50	0.17	mg/Kg		07/28/17 10:54	07/31/17 14:01	1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: MB 180-218412/1-A
Matrix: Solid
Analysis Batch: 218674

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 218412

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	ND		2.0	1.0	mg/Kg		07/28/17 10:54	07/31/17 14:01	1

Lab Sample ID: LCS 180-218412/2-A
Matrix: Solid
Analysis Batch: 218674

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 218412

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	50.0	51.4		mg/Kg		103	80 - 120
Barium	200	201		mg/Kg		101	80 - 120
Beryllium	5.00	5.12		mg/Kg		102	80 - 120
Cadmium	5.00	5.13		mg/Kg		103	80 - 120
Chromium	20.0	19.7		mg/Kg		98	80 - 120
Copper	25.0	25.3		mg/Kg		101	80 - 120
Lead	50.0	49.7		mg/Kg		99	80 - 120
Manganese	50.0	49.5		mg/Kg		99	80 - 120
Nickel	50.0	50.8		mg/Kg		102	80 - 120
Selenium	50.0	52.6	^	mg/Kg		105	80 - 120
Silver	5.00	5.02		mg/Kg		100	80 - 120
Zinc	50.0	50.4		mg/Kg		101	80 - 120

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 180-218386/1-A
Matrix: Solid
Analysis Batch: 218639

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 218386

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.033	0.0074	mg/Kg		07/31/17 08:10	07/31/17 13:35	1

Lab Sample ID: LCS 180-218386/2-A
Matrix: Solid
Analysis Batch: 218639

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 218386

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.417	0.446		mg/Kg		107	80 - 120

Lab Sample ID: 180-68622-3 MS
Matrix: Solid
Analysis Batch: 218639

Client Sample ID: WB6-7, S3, C 072617
Prep Type: Total/NA
Prep Batch: 218386

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.035	J F1	0.218	0.298	F1	mg/Kg	☼	121	80 - 120

Lab Sample ID: 180-68622-3 MSD
Matrix: Solid
Analysis Batch: 218639

Client Sample ID: WB6-7, S3, C 072617
Prep Type: Total/NA
Prep Batch: 218386

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.035	J F1	0.203	0.273		mg/Kg	☼	117	80 - 120	9	20

Method: 2540G - SM 2540G

Lab Sample ID: 180-68622-3 DU
Matrix: Solid
Analysis Batch: 218418

Client Sample ID: WB6-7, S3, C 072617
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	15.1		16.7		%		10	20
Percent Solids	84.9		83.3		%		2	20

Method: 9014 - Cyanide

Lab Sample ID: MB 180-218907/4-A
Matrix: Solid
Analysis Batch: 219021

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 218907

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.50	0.15	mg/Kg		08/02/17 13:35	08/03/17 11:09	1

Lab Sample ID: HLCS 180-218907/2-A
Matrix: Solid
Analysis Batch: 219021

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 218907

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.250	0.255		mg/Kg		102	90 - 110

Lab Sample ID: LCS 180-218907/3-A
Matrix: Solid
Analysis Batch: 219021

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 218907

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	164	119		mg/Kg		73	38 - 162

Lab Sample ID: LLCS 180-218907/1-A
Matrix: Solid
Analysis Batch: 219021

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 218907

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.0500	0.0501		mg/Kg		100	90 - 110

Lab Sample ID: 180-68622-3 MS
Matrix: Solid
Analysis Batch: 219021

Client Sample ID: WB6-7, S3, C 072617
Prep Type: Total/NA
Prep Batch: 218907

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.37	J	5.83	6.24		mg/Kg	☼	101	75 - 125

Lab Sample ID: 180-68622-3 MSD
Matrix: Solid
Analysis Batch: 219021

Client Sample ID: WB6-7, S3, C 072617
Prep Type: Total/NA
Prep Batch: 218907

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cyanide, Total	0.37	J	5.72	5.56		mg/Kg	☼	91	75 - 125	12	20

QC Association Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68622-1

GC/MS VOA

Analysis Batch: 218353

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68622-1	WB6-7, S3, A 072617	Total/NA	Solid	8260C	218356
180-68622-2	WB6-7, S3, B 072617	Total/NA	Solid	8260C	218356
180-68622-4	WB6-7, S4, A 072617	Total/NA	Solid	8260C	218356
180-68622-5	WB6-7, S4, B 072617	Total/NA	Solid	8260C	218356
MB 180-218353/9	Method Blank	Total/NA	Solid	8260C	
LCS 180-218353/4	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 180-218353/5	Lab Control Sample Dup	Total/NA	Solid	8260C	

Prep Batch: 218356

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68622-1	WB6-7, S3, A 072617	Total/NA	Solid	5035	
180-68622-2	WB6-7, S3, B 072617	Total/NA	Solid	5035	
180-68622-4	WB6-7, S4, A 072617	Total/NA	Solid	5035	
180-68622-5	WB6-7, S4, B 072617	Total/NA	Solid	5035	

Analysis Batch: 218548

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68622-9	TRIP BLANK#1	Total/NA	Water	8260C	
MB 180-218548/5	Method Blank	Total/NA	Water	8260C	
LCS 180-218548/3	Lab Control Sample	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 218664

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68622-3	WB6-7, S3, C 072617	Total/NA	Solid	3541	
180-68622-6	WB6-7, S4, C 072617	Total/NA	Solid	3541	
MB 180-218664/1-A	Method Blank	Total/NA	Solid	3541	
LCS 180-218664/2-A	Lab Control Sample	Total/NA	Solid	3541	
180-68622-3 MS	WB6-7, S3, C 072617	Total/NA	Solid	3541	
180-68622-3 MSD	WB6-7, S3, C 072617	Total/NA	Solid	3541	

Analysis Batch: 218731

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68622-3	WB6-7, S3, C 072617	Total/NA	Solid	8270D LL	218664
180-68622-6	WB6-7, S4, C 072617	Total/NA	Solid	8270D LL	218664
MB 180-218664/1-A	Method Blank	Total/NA	Solid	8270D LL	218664
LCS 180-218664/2-A	Lab Control Sample	Total/NA	Solid	8270D LL	218664
180-68622-3 MS	WB6-7, S3, C 072617	Total/NA	Solid	8270D LL	218664
180-68622-3 MSD	WB6-7, S3, C 072617	Total/NA	Solid	8270D LL	218664

GC Semi VOA

Prep Batch: 218666

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68622-3	WB6-7, S3, C 072617	Total/NA	Solid	3541	
180-68622-6	WB6-7, S4, C 072617	Total/NA	Solid	3541	
MB 180-218666/1-A	Method Blank	Total/NA	Solid	3541	
LCS 180-218666/2-A	Lab Control Sample	Total/NA	Solid	3541	

GC Semi VOA (Continued)

Cleanup Batch: 218720

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68622-3	WB6-7, S3, C 072617	Total/NA	Solid	3665A	218666
180-68622-6	WB6-7, S4, C 072617	Total/NA	Solid	3665A	218666

Cleanup Batch: 218721

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68622-3	WB6-7, S3, C 072617	Total/NA	Solid	3660B	218720
180-68622-6	WB6-7, S4, C 072617	Total/NA	Solid	3660B	218720

Analysis Batch: 218951

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68622-3	WB6-7, S3, C 072617	Total/NA	Solid	8082A	218721
180-68622-6	WB6-7, S4, C 072617	Total/NA	Solid	8082A	218721
MB 180-218666/1-A	Method Blank	Total/NA	Solid	8082A	218666
LCS 180-218666/2-A	Lab Control Sample	Total/NA	Solid	8082A	218666

Metals

Prep Batch: 218386

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68622-3	WB6-7, S3, C 072617	Total/NA	Solid	7471B	
180-68622-6	WB6-7, S4, C 072617	Total/NA	Solid	7471B	
MB 180-218386/1-A	Method Blank	Total/NA	Solid	7471B	
LCS 180-218386/2-A	Lab Control Sample	Total/NA	Solid	7471B	
180-68622-3 MS	WB6-7, S3, C 072617	Total/NA	Solid	7471B	
180-68622-3 MSD	WB6-7, S3, C 072617	Total/NA	Solid	7471B	

Prep Batch: 218412

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68622-3	WB6-7, S3, C 072617	Total/NA	Solid	3050B	
180-68622-6	WB6-7, S4, C 072617	Total/NA	Solid	3050B	
MB 180-218412/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 180-218412/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Analysis Batch: 218639

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68622-3	WB6-7, S3, C 072617	Total/NA	Solid	7471B	218386
180-68622-6	WB6-7, S4, C 072617	Total/NA	Solid	7471B	218386
MB 180-218386/1-A	Method Blank	Total/NA	Solid	7471B	218386
LCS 180-218386/2-A	Lab Control Sample	Total/NA	Solid	7471B	218386
180-68622-3 MS	WB6-7, S3, C 072617	Total/NA	Solid	7471B	218386
180-68622-3 MSD	WB6-7, S3, C 072617	Total/NA	Solid	7471B	218386

Analysis Batch: 218674

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68622-3	WB6-7, S3, C 072617	Total/NA	Solid	6010C	218412
180-68622-6	WB6-7, S4, C 072617	Total/NA	Solid	6010C	218412
MB 180-218412/1-A	Method Blank	Total/NA	Solid	6010C	218412
LCS 180-218412/2-A	Lab Control Sample	Total/NA	Solid	6010C	218412

QC Association Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68622-1

General Chemistry

Analysis Batch: 218418

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68622-1	WB6-7, S3, A 072617	Total/NA	Solid	2540G	
180-68622-2	WB6-7, S3, B 072617	Total/NA	Solid	2540G	
180-68622-3	WB6-7, S3, C 072617	Total/NA	Solid	2540G	
180-68622-4	WB6-7, S4, A 072617	Total/NA	Solid	2540G	
180-68622-5	WB6-7, S4, B 072617	Total/NA	Solid	2540G	
180-68622-6	WB6-7, S4, C 072617	Total/NA	Solid	2540G	
180-68622-3 DU	WB6-7, S3, C 072617	Total/NA	Solid	2540G	

Prep Batch: 218907

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68622-3	WB6-7, S3, C 072617	Total/NA	Solid	9010C	
180-68622-6	WB6-7, S4, C 072617	Total/NA	Solid	9010C	
MB 180-218907/4-A	Method Blank	Total/NA	Solid	9010C	
HLCS 180-218907/2-A	Lab Control Sample	Total/NA	Solid	9010C	
LCS 180-218907/3-A	Lab Control Sample	Total/NA	Solid	9010C	
LLCS 180-218907/1-A	Lab Control Sample	Total/NA	Solid	9010C	
180-68622-3 MS	WB6-7, S3, C 072617	Total/NA	Solid	9010C	
180-68622-3 MSD	WB6-7, S3, C 072617	Total/NA	Solid	9010C	

Analysis Batch: 219021

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68622-3	WB6-7, S3, C 072617	Total/NA	Solid	9014	218907
180-68622-6	WB6-7, S4, C 072617	Total/NA	Solid	9014	218907
MB 180-218907/4-A	Method Blank	Total/NA	Solid	9014	218907
HLCS 180-218907/2-A	Lab Control Sample	Total/NA	Solid	9014	218907
LCS 180-218907/3-A	Lab Control Sample	Total/NA	Solid	9014	218907
LLCS 180-218907/1-A	Lab Control Sample	Total/NA	Solid	9014	218907
180-68622-3 MS	WB6-7, S3, C 072617	Total/NA	Solid	9014	218907
180-68622-3 MSD	WB6-7, S3, C 072617	Total/NA	Solid	9014	218907

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Chain of Custody Reco

180-68622 Chain of Custody

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

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Company: Geosyntec Consultants, Inc.			Job #:
Address: Penn Center West One, Suite 402 1 Penn Center West Drive	Due Date Requested:		
City: Pittsburgh	TAT Requested (days): 1 day		
State, Zip: PA, 15276			
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Email: aranna@geosyntec.com; Akrasnopoler@geosyntec.com	WO #:		
Project Name: Former Sperry Remington Site - North IRM	Project #: 18013464		
Site: Elmira NY	SSOW#:		

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - VOA-Select List	6010C, 7471B, 9014 - Select ICP Metals, Mercury, Cyanide	8082A, 8270D, PCBs, Select BNA	8260C - VOA-Select List (Trip Blanks only)	TCLP RCRA METALS	TCLP SEMI VOA	TCLP VOC	PCB 8082A	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	A						
WB6-7,S3,A 072617	072617	13:45	G	Solid	N	N	X								4	
WB6-7,S3,B 072617	072617	13:40	G	Solid	N	N	X								4	
WB6-7,S3,C 072617	072617	13:50	C	Solid	N	N		X	X						2	
WB6-7,S4,A 072617	072617	15:00	G	Solid	N	N	X								4	
WB6-7,S4,B 072617	072617	15:05	G	Solid	N	N	X								4	
WB6-7,S4,C 072617	072617	15:10	C	Solid	N	N		X	X						2	
WB5-6,S1,A 072617	072617	16:40	G	Solid	N	Y							X		6	MS/MSD 12
WB5-6,S1,C 072617	072617	16:55	C	Solid	N	Y					X	X		X	9	Perform MS/MSD 13
TRIP BLANK #1	072617	—	W	Solid	N	N				X					2	
				Solid												
				Solid												

RUSH

Possible Hazard Identification
☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☑ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	Ellen Buelow	07/26/2017	Geosyntec		7/27/17 0800	TAPitt
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: △ Yes △ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 180-68622-1

Login Number: 68622
List Number: 1
Creator: Neri, Tom

List Source: TestAmerica Pittsburgh

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

TestAmerica Job ID: 180-68716-1
Client Project/Site: Former Sperry Remington Site - North IRM

For:
Geosyntec Consultants, Inc.
10211 Wincopin Circle
4'th Floor
Columbia, Maryland 21044

Attn: Mr. Aron Krasnopoler

Authorized for release by:
8/7/2017 9:26:31 AM

David Dunlap, Senior Project Manager
(412)963-2432
david.dunlap@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Job ID: 180-68716-1

Laboratory: TestAmerica Pittsburgh

Narrative

Job Narrative
180-68716-1

Receipt
The samples were received on 7/29/2017 9:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 0.6º C.

The following volatile sample was received with small air bubbles approximately 6 mm diameter in each of the vials: TRIP BLANK #1 (180-68716-12).

GC/MS VOA
Method(s) 8260C: The continuing calibration verification (CCV) analyzed in batch 180-218535 was below method criteria for the following analyte: vinyl chloride. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte is considered estimated.

Method(s) 8260C: The continuing calibration verification (CCV) analyzed in batch 180-218552 was above method criteria for the following analyte: vinyl chloride. As the CCV was high and vinyl chloride was not detected in the associated samples, the results were reported.

Method(s) 8260C: The continuing calibration verification (CCV) analyzed in 180-218566 was above method criteria for the following analytes: 1,1,1-trichloroethane, 1,2-dichloroethane, and n-butylbenzene. As the CCV was high and these analytes were not detected in the associated samples, the results were reported.

Method(s) 8260C: The following analytes recovered above the control limits for the laboratory control sample (LCS) associated with analytical batch 180-218535: 1,1,1-trichloroethane and carbon tetrachloride. The recoveries in the laboratory control sample duplicate (LCSD) were within the control limits. As the recoveries were high and these analytes were not detected in the associated samples, the results were reported.

Method(s) 8260C: The following analyte recovered above the control limits for the laboratory control sample (LCS) associated with analytical batch 180-218566: 1,2-dichloroethane. As the recovery was high and 1,2-dichloroethane was not detected in the associated samples, the results were reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method(s) 8270D LL: The following sample was diluted to bring the concentration of target analytes within the calibration range: WB3-4, S1, C 072817 (180-68716-3). Elevated reporting limits (RLs) are provided.

Method(s) 8270D LL: The following sample was diluted due to the nature of the sample matrix: DUPE 18 (180-68716-11). Elevated reporting limits (RLs) are provided.

Method(s) 8270D LL: The continuing calibration verification (CCV) analyzed in batch 180-218855 was above method criteria for the following analytes: 1,4-dioxane and pyridine. As the CCV was high and these analytes were not detected in the associated samples, the results were reported.

Method(s) 8270D LL: The continuing calibration verification (CCV) analyzed in batch 180-219005 was above method criteria for the following analytes: hexachlorobutadiene and pyridine. As the CCV was high and these analytes were not detected in the associated samples, the results were reported.

Method(s) 8270D LL: The continuing calibration verification (CCV) analyzed in batch 180-219005 was below method criteria for the following analyte: benzo[g,h,i]perylene. A CCV standard at or below the reporting limit (RL) was analyzed with the affected sample and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte is considered estimated.

Job ID: 180-68716-1 (Continued)

Laboratory: TestAmerica Pittsburgh (Continued)

Method(s) 8270D LL: The matrix spike/matrix spike duplicate (MS/MSD) of sample WB3-4, S1, C 072817 (180-68716-3) had several recoveries and RPD between the spikes outside of the above the control limits. The recoveries of the laboratory control sample (LCS) were within the control limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA

Method(s) 8082A: The continuing calibration verifications (CCVs) analyzed in batch 180-218956 were above criteria for arcolors 1016, 1248, and 1254 (CCV 180-218956/4, CCV 180-218956/5, and CCV 180-218956/13) on column RTX-CLP2. All results in the associated samples were reported from column RTX-CLP1, which met criteria. The % difference between the sample results on both columns was <40%.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

Method(s) 6010C: The low level continuing calibration verification (CCVL 180-218816/64) recovered above the control limit for selenium (131%, with limits of 70%-130%). As the CCVL was high and the associated samples had selenium either not detected or detected at a concentration below the reporting limit, the results were reported.

Method(s) 6010C: The matrix spike duplicate (MSD) recovery of sample WB3-4, S1, C 072817 (180-68716-3) was outside of the control limits for copper and lead. The recoveries of the matrix spike (MS) and laboratory control sample (LCS) were within the control limits.

Method(s) 7471B: The matrix spike/matrix spike duplicate (MS/MSD) recoveries of sample WB3-4, S1, C 072817 (180-68716-3) were above the control limits for mercury. The RPD between the spikes and the recovery of the laboratory control sample (LCS) were within the control limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Definitions/Glossary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68716-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance limits.
E	Result exceeded calibration range.
F2	MS/MSD RPD exceeds control limits
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
F1	MS and/or MSD Recovery is outside acceptance limits.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc. TestAmerica Job ID: 180-68716-1
Project/Site: Former Sperry Remington Site - North IRM

Laboratory: TestAmerica Pittsburgh

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	11182	03-31-18

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
2540G		Solid	Percent Moisture
2540G		Solid	Percent Solids
8270D LL	3541	Solid	1,4-Dioxane

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68716-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-68716-1	WB3-4, S1, A 072817	Solid	07/28/17 12:15	07/29/17 09:00
180-68716-2	WB3-4, S1, B 072817	Solid	07/28/17 12:25	07/29/17 09:00
180-68716-3	WB3-4, S1, C 072817	Solid	07/28/17 12:30	07/29/17 09:00
180-68716-4	WB3-4, S2, A 072817	Solid	07/28/17 14:50	07/29/17 09:00
180-68716-5	WB3-4, S2, B 072817	Solid	07/28/17 14:55	07/29/17 09:00
180-68716-6	WB3-4, S2, C 072817	Solid	07/28/17 15:05	07/29/17 09:00
180-68716-7	WB3-4, S3, A 072817	Solid	07/28/17 16:00	07/29/17 09:00
180-68716-8	WB3-4, S3, B 072817	Solid	07/28/17 16:05	07/29/17 09:00
180-68716-9	WB3-4, S3, C 072817	Solid	07/28/17 16:15	07/29/17 09:00
180-68716-10	DUPE 19	Solid	07/28/17 00:00	07/29/17 09:00
180-68716-11	DUPE 18	Solid	07/28/17 00:00	07/29/17 09:00
180-68716-12	TRIP BLANK #1	Water	07/28/17 00:00	07/29/17 09:00

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68716-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL PIT
8260C	Volatile Organic Compounds (GC/MS)	SW846	TAL PIT
8270D LL	Semivolatile Organic Compounds by GC/MS - Low Level	SW846	TAL PIT
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL PIT
6010C	Metals (ICP)	SW846	TAL PIT
7471B	Mercury (CVAA)	SW846	TAL PIT
2540G	SM 2540G	SM22	TAL PIT
9014	Cyanide	SW846	TAL PIT

Protocol References:

SM22 = SM22

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68716-1

Client Sample ID: WB3-4, S1, A 072817
Lab Sample ID: 180-68716-1
Date Collected: 07/28/17 12:15
Matrix: Solid
Date Received: 07/29/17 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218626	07/31/17 12:31	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: WB3-4, S1, A 072817
Lab Sample ID: 180-68716-1
Date Collected: 07/28/17 12:15
Matrix: Solid
Date Received: 07/29/17 09:00
Percent Solids: 88.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.3577 g	5 mL	218540	07/30/17 08:10	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	218535	07/30/17 18:10	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: WB3-4, S1, B 072817
Lab Sample ID: 180-68716-2
Date Collected: 07/28/17 12:25
Matrix: Solid
Date Received: 07/29/17 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218626	07/31/17 12:31	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: WB3-4, S1, B 072817
Lab Sample ID: 180-68716-2
Date Collected: 07/28/17 12:25
Matrix: Solid
Date Received: 07/29/17 09:00
Percent Solids: 88.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.6065 g	5 mL	218540	07/30/17 08:10	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	218535	07/30/17 18:34	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: WB3-4, S1, C 072817
Lab Sample ID: 180-68716-3
Date Collected: 07/28/17 12:30
Matrix: Solid
Date Received: 07/29/17 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218626	07/31/17 12:31	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: WB3-4, S1, C 072817
Lab Sample ID: 180-68716-3
Date Collected: 07/28/17 12:30
Matrix: Solid
Date Received: 07/29/17 09:00
Percent Solids: 90.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.4 g	0.5 mL	218811	08/02/17 03:48	BAP	TAL PIT

Client Sample ID: WB3-4, S1, C 072817

Lab Sample ID: 180-68716-3
Date Collected: 07/28/17 12:30
Matrix: Solid
Date Received: 07/29/17 09:00
Percent Solids: 90.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8270D LL		4	1 mL	1 mL	218855	08/02/17 13:54	DLF	TAL PIT
	Instrument ID: CH71									
Total/NA	Prep	3541	DL		15.4 g	0.5 mL	218811	08/02/17 03:48	BAP	TAL PIT
Total/NA	Analysis	8270D LL	DL	20	1 mL	1 mL	219005	08/03/17 16:14	DLF	TAL PIT
	Instrument ID: CH71									
Total/NA	Prep	3541			15.3 g	20.0 mL	218813	08/02/17 03:57	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	218880	08/02/17 11:31	CMR	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	218881	08/02/17 11:33	CMR	TAL PIT
Total/NA	Analysis	8082A		1			218956	08/03/17 11:39	JMO	TAL PIT
	Instrument ID: CHGC16									
Total/NA	Prep	3050B			0.97 g	100 mL	218614	07/31/17 10:55	CRM	TAL PIT
Total/NA	Analysis	6010C		1			218816	08/01/17 09:26	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.58 g	100 mL	218684	08/01/17 06:50	RJR	TAL PIT
Total/NA	Analysis	7471B		1			218849	08/02/17 06:54	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.02 g	50 mL	218907	08/02/17 13:35	JAS	TAL PIT
Total/NA	Analysis	9014		1			219021	08/03/17 11:24	JAS	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: WB3-4, S2, A 072817

Lab Sample ID: 180-68716-4
Date Collected: 07/28/17 14:50
Matrix: Solid
Date Received: 07/29/17 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218626	07/31/17 12:31	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: WB3-4, S2, A 072817

Lab Sample ID: 180-68716-4
Date Collected: 07/28/17 14:50
Matrix: Solid
Date Received: 07/29/17 09:00
Percent Solids: 90.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.792 g	5 mL	218570	07/31/17 05:29	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	218566	07/31/17 13:49	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: WB3-4, S2, B 072817

Lab Sample ID: 180-68716-5
Date Collected: 07/28/17 14:55
Matrix: Solid
Date Received: 07/29/17 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218626	07/31/17 12:31	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68716-1

Client Sample ID: WB3-4, S2, B 072817
Date Collected: 07/28/17 14:55
Date Received: 07/29/17 09:00

Lab Sample ID: 180-68716-5
Matrix: Solid
Percent Solids: 90.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.6632 g	5 mL	218570	07/31/17 05:29	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	218566	07/31/17 14:11	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: WB3-4, S2, C 072817
Date Collected: 07/28/17 15:05
Date Received: 07/29/17 09:00

Lab Sample ID: 180-68716-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218626	07/31/17 12:31	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: WB3-4, S2, C 072817
Date Collected: 07/28/17 15:05
Date Received: 07/29/17 09:00

Lab Sample ID: 180-68716-6
Matrix: Solid
Percent Solids: 89.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.1 g	0.5 mL	218811	08/02/17 03:48	BAP	TAL PIT
Total/NA	Analysis	8270D LL		1	1 mL	1 mL	218855	08/02/17 17:06	DLF	TAL PIT
	Instrument ID: CH71									
Total/NA	Prep	3541			15.4 g	20.0 mL	218813	08/02/17 03:57	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	218880	08/02/17 11:31	CMR	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	218881	08/02/17 11:33	CMR	TAL PIT
Total/NA	Analysis	8082A		1			218956	08/03/17 12:00	JMO	TAL PIT
	Instrument ID: CHGC16									
Total/NA	Prep	3050B			0.99 g	100 mL	218614	07/31/17 10:55	CRM	TAL PIT
Total/NA	Analysis	6010C		1			218816	08/01/17 09:51	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.63 g	100 mL	218684	08/01/17 06:50	RJR	TAL PIT
Total/NA	Analysis	7471B		1			218849	08/02/17 07:00	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.01 g	50 mL	218907	08/02/17 13:35	JAS	TAL PIT
Total/NA	Analysis	9014		1			219021	08/03/17 11:26	JAS	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: WB3-4, S3, A 072817
Date Collected: 07/28/17 16:00
Date Received: 07/29/17 09:00

Lab Sample ID: 180-68716-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218626	07/31/17 12:31	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68716-1

Client Sample ID: WB3-4, S3, A 072817
Date Collected: 07/28/17 16:00
Date Received: 07/29/17 09:00

Lab Sample ID: 180-68716-7
Matrix: Solid
Percent Solids: 87.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.3763 g	5 mL	218570	07/31/17 05:29	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	218566	07/31/17 14:34	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: WB3-4, S3, B 072817
Date Collected: 07/28/17 16:05
Date Received: 07/29/17 09:00

Lab Sample ID: 180-68716-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218626	07/31/17 12:31	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: WB3-4, S3, B 072817
Date Collected: 07/28/17 16:05
Date Received: 07/29/17 09:00

Lab Sample ID: 180-68716-8
Matrix: Solid
Percent Solids: 89.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.4944 g	5 mL	218570	07/31/17 05:29	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	218566	07/31/17 14:57	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: WB3-4, S3, C 072817
Date Collected: 07/28/17 16:15
Date Received: 07/29/17 09:00

Lab Sample ID: 180-68716-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218626	07/31/17 12:31	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: WB3-4, S3, C 072817
Date Collected: 07/28/17 16:15
Date Received: 07/29/17 09:00

Lab Sample ID: 180-68716-9
Matrix: Solid
Percent Solids: 88.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	0.5 mL	218811	08/02/17 03:48	BAP	TAL PIT
Total/NA	Analysis	8270D LL		1	1 mL	1 mL	218855	08/02/17 17:33	DLF	TAL PIT
	Instrument ID: CH71									
Total/NA	Prep	3541			15.2 g	20.0 mL	218813	08/02/17 03:57	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	218880	08/02/17 11:31	CMR	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	218881	08/02/17 11:33	CMR	TAL PIT
Total/NA	Analysis	8082A		1			218956	08/03/17 12:18	JMO	TAL PIT
	Instrument ID: CHGC16									
Total/NA	Prep	3050B			0.95 g	100 mL	218614	07/31/17 10:55	CRM	TAL PIT

Client Sample ID: WB3-4, S3, C 072817

Lab Sample ID: 180-68716-9
Date Collected: 07/28/17 16:15
Matrix: Solid
Date Received: 07/29/17 09:00
Percent Solids: 88.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	6010C		1			218816	08/01/17 10:06	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.61 g	100 mL	218684	08/01/17 06:50	RJR	TAL PIT
Total/NA	Analysis	7471B		1			218849	08/02/17 07:02	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.000 g	50 mL	218907	08/02/17 13:35	JAS	TAL PIT
Total/NA	Analysis	9014		1			219021	08/03/17 11:28	JAS	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: DUPE 19

Lab Sample ID: 180-68716-10
Date Collected: 07/28/17 00:00
Matrix: Solid
Date Received: 07/29/17 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218618	07/31/17 11:44	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: DUPE 19

Lab Sample ID: 180-68716-10
Date Collected: 07/28/17 00:00
Matrix: Solid
Date Received: 07/29/17 09:00
Percent Solids: 88.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.4114 g	5 mL	218570	07/31/17 05:29	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	218566	07/31/17 15:19	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: DUPE 18

Lab Sample ID: 180-68716-11
Date Collected: 07/28/17 00:00
Matrix: Solid
Date Received: 07/29/17 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218618	07/31/17 11:44	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: DUPE 18

Lab Sample ID: 180-68716-11
Date Collected: 07/28/17 00:00
Matrix: Solid
Date Received: 07/29/17 09:00
Percent Solids: 90.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.5 g	0.5 mL	218811	08/02/17 03:48	BAP	TAL PIT
Total/NA	Analysis	8270D LL		4	1 mL	1 mL	218855	08/02/17 18:00	DLF	TAL PIT
	Instrument ID: CH71									
Total/NA	Prep	3541			15.1 g	20.0 mL	218813	08/02/17 03:57	BAP	TAL PIT

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68716-1

Client Sample ID: DUPE 18

Date Collected: 07/28/17 00:00
Date Received: 07/29/17 09:00

Lab Sample ID: 180-68716-11

Matrix: Solid
Percent Solids: 90.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Cleanup	3665A			2 mL	2 mL	218880	08/02/17 11:31	CMR	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	218881	08/02/17 11:33	CMR	TAL PIT
Total/NA	Analysis	8082A		1			218956	08/03/17 12:38	JMO	TAL PIT
	Instrument ID: CHGC16									
Total/NA	Prep	3050B			1.04 g	100 mL	218614	07/31/17 10:55	CRM	TAL PIT
Total/NA	Analysis	6010C		1			218816	08/01/17 10:11	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.57 g	100 mL	218684	08/01/17 06:50	RJR	TAL PIT
Total/NA	Analysis	7471B		1			218849	08/02/17 07:04	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.01 g	50 mL	218907	08/02/17 13:35	JAS	TAL PIT
Total/NA	Analysis	9014		1			219021	08/03/17 11:30	JAS	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: TRIP BLANK #1

Date Collected: 07/28/17 00:00
Date Received: 07/29/17 09:00

Lab Sample ID: 180-68716-12

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	218552	07/31/17 08:32	FBB	TAL PIT
	Instrument ID: CHHP5									

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68716-1

Analyst References:

Lab: TAL PIT

Batch Type: Cleanup

CMR = Carl Reagle

Batch Type: Prep

BAP = Brian Pino

CRM = Caitlin McEvoy

JAS = Joshua Schmidt

KLG = Kathy Gordon

RJR = Ron Rosenbaum

Batch Type: Analysis

DLF = Donald Ferguson

FBB = Frank Bungard

JAS = Joshua Schmidt

JMO = John Oravec

JTL = Justin Landry

KLG = Kathy Gordon

RJG = Rob Good

RJR = Ron Rosenbaum

Client Sample ID: WB3-4, S1, A 072817

Lab Sample ID: 180-68716-1
Date Collected: 07/28/17 12:15
Matrix: Solid
Date Received: 07/29/17 09:00
Percent Solids: 88.4

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.018	0.0028	mg/Kg	☼	07/30/17 08:10	07/30/17 18:10	1
Benzene	ND		0.0044	0.0017	mg/Kg	☼	07/30/17 08:10	07/30/17 18:10	1
2-Butanone (MEK)	ND		0.0044	0.0026	mg/Kg	☼	07/30/17 08:10	07/30/17 18:10	1
Carbon tetrachloride	ND	*	0.0044	0.0030	mg/Kg	☼	07/30/17 08:10	07/30/17 18:10	1
Chlorobenzene	ND		0.0044	0.0014	mg/Kg	☼	07/30/17 08:10	07/30/17 18:10	1
Chloroform	ND		0.0044	0.0019	mg/Kg	☼	07/30/17 08:10	07/30/17 18:10	1
cis-1,2-Dichloroethene	ND		0.0044	0.0014	mg/Kg	☼	07/30/17 08:10	07/30/17 18:10	1
1,2-Dichlorobenzene	ND		0.0044	0.0036	mg/Kg	☼	07/30/17 08:10	07/30/17 18:10	1
1,3-Dichlorobenzene	ND		0.0044	0.0014	mg/Kg	☼	07/30/17 08:10	07/30/17 18:10	1
1,4-Dichlorobenzene	ND		0.0044	0.00091	mg/Kg	☼	07/30/17 08:10	07/30/17 18:10	1
1,1-Dichloroethane	ND		0.0044	0.0016	mg/Kg	☼	07/30/17 08:10	07/30/17 18:10	1
1,2-Dichloroethane	ND		0.0044	0.0013	mg/Kg	☼	07/30/17 08:10	07/30/17 18:10	1
1,1-Dichloroethene	ND		0.0044	0.0025	mg/Kg	☼	07/30/17 08:10	07/30/17 18:10	1
Ethylbenzene	ND		0.0044	0.0019	mg/Kg	☼	07/30/17 08:10	07/30/17 18:10	1
Methylene Chloride	ND		0.0044	0.0021	mg/Kg	☼	07/30/17 08:10	07/30/17 18:10	1
Methyl tert-butyl ether	ND		0.0044	0.0033	mg/Kg	☼	07/30/17 08:10	07/30/17 18:10	1
n-Butylbenzene	ND		0.0044	0.0034	mg/Kg	☼	07/30/17 08:10	07/30/17 18:10	1
N-Propylbenzene	ND		0.0044	0.0019	mg/Kg	☼	07/30/17 08:10	07/30/17 18:10	1
sec-Butylbenzene	ND		0.0044	0.0022	mg/Kg	☼	07/30/17 08:10	07/30/17 18:10	1
tert-Butylbenzene	ND		0.0044	0.0016	mg/Kg	☼	07/30/17 08:10	07/30/17 18:10	1
Tetrachloroethene	ND		0.0044	0.0018	mg/Kg	☼	07/30/17 08:10	07/30/17 18:10	1
Toluene	ND		0.0044	0.0015	mg/Kg	☼	07/30/17 08:10	07/30/17 18:10	1
trans-1,2-Dichloroethene	ND		0.0044	0.0023	mg/Kg	☼	07/30/17 08:10	07/30/17 18:10	1
1,1,1-Trichloroethane	ND	*	0.0044	0.0022	mg/Kg	☼	07/30/17 08:10	07/30/17 18:10	1
Trichloroethene	ND		0.0044	0.0013	mg/Kg	☼	07/30/17 08:10	07/30/17 18:10	1
1,2,4-Trimethylbenzene	ND		0.0044	0.0012	mg/Kg	☼	07/30/17 08:10	07/30/17 18:10	1
1,3,5-Trimethylbenzene	ND		0.0044	0.0015	mg/Kg	☼	07/30/17 08:10	07/30/17 18:10	1
Vinyl chloride	ND		0.0044	0.0033	mg/Kg	☼	07/30/17 08:10	07/30/17 18:10	1
Xylenes, Total	ND		0.0089	0.0038	mg/Kg	☼	07/30/17 08:10	07/30/17 18:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*63 - 120*	*07/30/17 08:10*	*07/30/17 18:10*	*1*
Dibromofluoromethane (Surr)	*101*		*68 - 121*	*07/30/17 08:10*	*07/30/17 18:10*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*52 - 124*	*07/30/17 08:10*	*07/30/17 18:10*	*1*
Toluene-d8 (Surr)	*113*		*72 - 127*	*07/30/17 08:10*	*07/30/17 18:10*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**11.6**		0.1	0.1	%			07/31/17 12:31	1
Percent Solids	**88.4**		0.1	0.1	%			07/31/17 12:31	1

Client Sample ID: WB3-4, S1, B 072817

Lab Sample ID: 180-68716-2
Date Collected: 07/28/17 12:25
Matrix: Solid
Date Received: 07/29/17 09:00
Percent Solids: 88.3

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.020	0.0032	mg/Kg	☼	07/30/17 08:10	07/30/17 18:34	1
Benzene	ND		0.0050	0.0020	mg/Kg	☼	07/30/17 08:10	07/30/17 18:34	1
2-Butanone (MEK)	ND		0.0050	0.0029	mg/Kg	☼	07/30/17 08:10	07/30/17 18:34	1

Client Sample ID: WB3-4, S1, B 072817 — Lab Sample ID: 180-68716-2

Date Collected: 07/28/17 12:25 — **Matrix: Solid**
Date Received: 07/29/17 09:00 — **Percent Solids: 88.3**

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	ND	*	0.0050	0.0033	mg/Kg	☼	07/30/17 08:10	07/30/17 18:34	1
Chlorobenzene	ND		0.0050	0.0016	mg/Kg	☼	07/30/17 08:10	07/30/17 18:34	1
Chloroform	ND		0.0050	0.0021	mg/Kg	☼	07/30/17 08:10	07/30/17 18:34	1
cis-1,2-Dichloroethene	ND		0.0050	0.0016	mg/Kg	☼	07/30/17 08:10	07/30/17 18:34	1
1,2-Dichlorobenzene	ND		0.0050	0.0041	mg/Kg	☼	07/30/17 08:10	07/30/17 18:34	1
1,3-Dichlorobenzene	ND		0.0050	0.0016	mg/Kg	☼	07/30/17 08:10	07/30/17 18:34	1
1,4-Dichlorobenzene	ND		0.0050	0.0010	mg/Kg	☼	07/30/17 08:10	07/30/17 18:34	1
1,1-Dichloroethane	ND		0.0050	0.0018	mg/Kg	☼	07/30/17 08:10	07/30/17 18:34	1
1,2-Dichloroethane	ND		0.0050	0.0015	mg/Kg	☼	07/30/17 08:10	07/30/17 18:34	1
1,1-Dichloroethene	ND		0.0050	0.0029	mg/Kg	☼	07/30/17 08:10	07/30/17 18:34	1
Ethylbenzene	ND		0.0050	0.0022	mg/Kg	☼	07/30/17 08:10	07/30/17 18:34	1
Methylene Chloride	ND		0.0050	0.0024	mg/Kg	☼	07/30/17 08:10	07/30/17 18:34	1
Methyl tert-butyl ether	ND		0.0050	0.0037	mg/Kg	☼	07/30/17 08:10	07/30/17 18:34	1
n-Butylbenzene	ND		0.0050	0.0038	mg/Kg	☼	07/30/17 08:10	07/30/17 18:34	1
N-Propylbenzene	ND		0.0050	0.0021	mg/Kg	☼	07/30/17 08:10	07/30/17 18:34	1
sec-Butylbenzene	ND		0.0050	0.0025	mg/Kg	☼	07/30/17 08:10	07/30/17 18:34	1
tert-Butylbenzene	ND		0.0050	0.0018	mg/Kg	☼	07/30/17 08:10	07/30/17 18:34	1
Tetrachloroethene	ND		0.0050	0.0020	mg/Kg	☼	07/30/17 08:10	07/30/17 18:34	1
Toluene	ND		0.0050	0.0017	mg/Kg	☼	07/30/17 08:10	07/30/17 18:34	1
trans-1,2-Dichloroethene	ND		0.0050	0.0026	mg/Kg	☼	07/30/17 08:10	07/30/17 18:34	1
1,1,1-Trichloroethane	ND	*	0.0050	0.0025	mg/Kg	☼	07/30/17 08:10	07/30/17 18:34	1
Trichloroethene	ND		0.0050	0.0015	mg/Kg	☼	07/30/17 08:10	07/30/17 18:34	1
1,2,4-Trimethylbenzene	ND		0.0050	0.0014	mg/Kg	☼	07/30/17 08:10	07/30/17 18:34	1
1,3,5-Trimethylbenzene	ND		0.0050	0.0017	mg/Kg	☼	07/30/17 08:10	07/30/17 18:34	1
Vinyl chloride	ND		0.0050	0.0037	mg/Kg	☼	07/30/17 08:10	07/30/17 18:34	1
Xylenes, Total	ND		0.010	0.0043	mg/Kg	☼	07/30/17 08:10	07/30/17 18:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*63 - 120*	*07/30/17 08:10*	*07/30/17 18:34*	*1*
Dibromofluoromethane (Surr)	*104*		*68 - 121*	*07/30/17 08:10*	*07/30/17 18:34*	*1*
1,2-Dichloroethane-d4 (Surr)	*110*		*52 - 124*	*07/30/17 08:10*	*07/30/17 18:34*	*1*
Toluene-d8 (Surr)	*122*		*72 - 127*	*07/30/17 08:10*	*07/30/17 18:34*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**11.7**		0.1	0.1	%			07/31/17 12:31	1
Percent Solids	**88.3**		0.1	0.1	%			07/31/17 12:31	1

Client Sample ID: WB3-4, S1, C 072817 — Lab Sample ID: 180-68716-3

Date Collected: 07/28/17 12:30 — **Matrix: Solid**
Date Received: 07/29/17 09:00 — **Percent Solids: 90.2**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.15**		0.029	0.0097	mg/Kg	☼	08/02/17 03:48	08/02/17 13:54	4
Acenaphthylene	**0.82**	**F1**	0.029	0.0098	mg/Kg	☼	08/02/17 03:48	08/02/17 13:54	4
Anthracene	**2.6**	**F1**	0.029	0.011	mg/Kg	☼	08/02/17 03:48	08/02/17 13:54	4
Benzo[a]anthracene	**4.9**		0.029	0.011	mg/Kg	☼	08/02/17 03:48	08/02/17 13:54	4
Benzo[a]pyrene	**3.6**		0.029	0.012	mg/Kg	☼	08/02/17 03:48	08/02/17 13:54	4
Benzo[b]fluoranthene	**4.8**		0.029	0.012	mg/Kg	☼	08/02/17 03:48	08/02/17 13:54	4

Client Sample ID: WB3-4, S1, C 072817 **Lab Sample ID: 180-68716-3**
Date Collected: 07/28/17 12:30 **Matrix: Solid**
Date Received: 07/29/17 09:00 **Percent Solids: 90.2**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	2.9		0.029	0.012	mg/Kg	☼	08/02/17 03:48	08/02/17 13:54	4
Benzo[k]fluoranthene	1.5	F1	0.029	0.010	mg/Kg	☼	08/02/17 03:48	08/02/17 13:54	4
Chrysene	3.7		0.029	0.011	mg/Kg	☼	08/02/17 03:48	08/02/17 13:54	4
Dibenz(a,h)anthracene	0.61	F1	0.029	0.012	mg/Kg	☼	08/02/17 03:48	08/02/17 13:54	4
Dibenzofuran	0.54	F1	0.14	0.012	mg/Kg	☼	08/02/17 03:48	08/02/17 13:54	4
1,4-Dioxane	ND		0.29	0.022	mg/Kg	☼	08/02/17 03:48	08/02/17 13:54	4
Fluoranthene	8.5	E	0.029	0.011	mg/Kg	☼	08/02/17 03:48	08/02/17 13:54	4
Fluorene	0.40	F1	0.029	0.010	mg/Kg	☼	08/02/17 03:48	08/02/17 13:54	4
Hexachlorobenzene	ND		0.029	0.012	mg/Kg	☼	08/02/17 03:48	08/02/17 13:54	4
Indeno[1,2,3-cd]pyrene	2.6	F1	0.029	0.011	mg/Kg	☼	08/02/17 03:48	08/02/17 13:54	4
2-Methylphenol	ND		0.14	0.013	mg/Kg	☼	08/02/17 03:48	08/02/17 13:54	4
Methylphenol, 3 & 4	0.025	J	0.14	0.013	mg/Kg	☼	08/02/17 03:48	08/02/17 13:54	4
Naphthalene	0.73	F1	0.029	0.010	mg/Kg	☼	08/02/17 03:48	08/02/17 13:54	4
Pentachlorophenol	ND		0.73	0.27	mg/Kg	☼	08/02/17 03:48	08/02/17 13:54	4
Phenanthrene	10	E	0.029	0.012	mg/Kg	☼	08/02/17 03:48	08/02/17 13:54	4
Phenol	0.022	J	0.14	0.019	mg/Kg	☼	08/02/17 03:48	08/02/17 13:54	4
Pyrene	8.7	E	0.029	0.013	mg/Kg	☼	08/02/17 03:48	08/02/17 13:54	4
Hexachloroethane	ND		140	10	ug/Kg	☼	08/02/17 03:48	08/02/17 13:54	4
Nitrobenzene	ND		290	11	ug/Kg	☼	08/02/17 03:48	08/02/17 13:54	4
Hexachlorobutadiene	ND		29	9.1	ug/Kg	☼	08/02/17 03:48	08/02/17 13:54	4
2,4,5-Trichlorophenol	ND		140	14	ug/Kg	☼	08/02/17 03:48	08/02/17 13:54	4
2,4,6-Trichlorophenol	ND		140	13	ug/Kg	☼	08/02/17 03:48	08/02/17 13:54	4
2,4-Dinitrotoluene	ND		140	19	ug/Kg	☼	08/02/17 03:48	08/02/17 13:54	4
Pyridine	ND	F1 F2	140	14	ug/Kg	☼	08/02/17 03:48	08/02/17 13:54	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*68*		*42 - 100*	*08/02/17 03:48*	*08/02/17 13:54*	*4*
2-Fluorophenol (Surr)	*62*		*21 - 107*	*08/02/17 03:48*	*08/02/17 13:54*	*4*
Nitrobenzene-d5 (Surr)	*73*		*35 - 109*	*08/02/17 03:48*	*08/02/17 13:54*	*4*
Phenol-d5 (Surr)	*57*		*29 - 105*	*08/02/17 03:48*	*08/02/17 13:54*	*4*
Terphenyl-d14 (Surr)	*70*		*36 - 113*	*08/02/17 03:48*	*08/02/17 13:54*	*4*
2,4,6-Tribromophenol (Surr)	*72*		*20 - 134*	*08/02/17 03:48*	*08/02/17 13:54*	*4*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.14		0.14	0.048	mg/Kg	☼	08/02/17 03:48	08/03/17 16:14	20
Acenaphthylene	0.69		0.14	0.049	mg/Kg	☼	08/02/17 03:48	08/03/17 16:14	20
Anthracene	2.6		0.14	0.053	mg/Kg	☼	08/02/17 03:48	08/03/17 16:14	20
Benzo[a]anthracene	4.3		0.14	0.057	mg/Kg	☼	08/02/17 03:48	08/03/17 16:14	20
Benzo[a]pyrene	3.5		0.14	0.060	mg/Kg	☼	08/02/17 03:48	08/03/17 16:14	20
Benzo[b]fluoranthene	4.3		0.14	0.062	mg/Kg	☼	08/02/17 03:48	08/03/17 16:14	20
Benzo[g,h,i]perylene	3.0		0.14	0.062	mg/Kg	☼	08/02/17 03:48	08/03/17 16:14	20
Benzo[k]fluoranthene	1.8		0.14	0.050	mg/Kg	☼	08/02/17 03:48	08/03/17 16:14	20
Chrysene	3.8		0.14	0.056	mg/Kg	☼	08/02/17 03:48	08/03/17 16:14	20
Dibenz(a,h)anthracene	0.71		0.14	0.060	mg/Kg	☼	08/02/17 03:48	08/03/17 16:14	20
Dibenzofuran	0.52	J	0.71	0.058	mg/Kg	☼	08/02/17 03:48	08/03/17 16:14	20
1,4-Dioxane	ND		1.4	0.11	mg/Kg	☼	08/02/17 03:48	08/03/17 16:14	20
Fluoranthene	8.4		0.14	0.057	mg/Kg	☼	08/02/17 03:48	08/03/17 16:14	20
Fluorene	0.41		0.14	0.051	mg/Kg	☼	08/02/17 03:48	08/03/17 16:14	20
Hexachlorobenzene	ND		0.14	0.058	mg/Kg	☼	08/02/17 03:48	08/03/17 16:14	20

Client Sample ID: WB3-4, S1, C 072817 **Lab Sample ID: 180-68716-3**
Date Collected: 07/28/17 12:30 **Matrix: Solid**
Date Received: 07/29/17 09:00 **Percent Solids: 90.2**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	**2.6**		0.14	0.056	mg/Kg	☼	08/02/17 03:48	08/03/17 16:14	20
2-Methylphenol	ND		0.71	0.064	mg/Kg	☼	08/02/17 03:48	08/03/17 16:14	20
Methylphenol, 3 & 4	ND		0.71	0.064	mg/Kg	☼	08/02/17 03:48	08/03/17 16:14	20
Naphthalene	**0.74**		0.14	0.052	mg/Kg	☼	08/02/17 03:48	08/03/17 16:14	20
Pentachlorophenol	ND		3.7	1.4	mg/Kg	☼	08/02/17 03:48	08/03/17 16:14	20
Phenanthrene	**8.3**		0.14	0.060	mg/Kg	☼	08/02/17 03:48	08/03/17 16:14	20
Phenol	ND		0.71	0.097	mg/Kg	☼	08/02/17 03:48	08/03/17 16:14	20
Pyrene	**9.3**		0.14	0.064	mg/Kg	☼	08/02/17 03:48	08/03/17 16:14	20
Hexachloroethane	ND		710	52	ug/Kg	☼	08/02/17 03:48	08/03/17 16:14	20
Nitrobenzene	ND		1400	55	ug/Kg	☼	08/02/17 03:48	08/03/17 16:14	20
Hexachlorobutadiene	ND		140	45	ug/Kg	☼	08/02/17 03:48	08/03/17 16:14	20
2,4,5-Trichlorophenol	ND		710	68	ug/Kg	☼	08/02/17 03:48	08/03/17 16:14	20
2,4,6-Trichlorophenol	ND		710	63	ug/Kg	☼	08/02/17 03:48	08/03/17 16:14	20
2,4-Dinitrotoluene	ND		710	95	ug/Kg	☼	08/02/17 03:48	08/03/17 16:14	20
Pyridine	ND		710	69	ug/Kg	☼	08/02/17 03:48	08/03/17 16:14	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*65*		*42 - 100*	*08/02/17 03:48*	*08/03/17 16:14*	*20*
2-Fluorophenol (Surr)	*55*		*21 - 107*	*08/02/17 03:48*	*08/03/17 16:14*	*20*
Nitrobenzene-d5 (Surr)	*70*		*35 - 109*	*08/02/17 03:48*	*08/03/17 16:14*	*20*
Phenol-d5 (Surr)	*59*		*29 - 105*	*08/02/17 03:48*	*08/03/17 16:14*	*20*
Terphenyl-d14 (Surr)	*85*		*36 - 113*	*08/02/17 03:48*	*08/03/17 16:14*	*20*
2,4,6-Tribromophenol (Surr)	*86*		*20 - 134*	*08/02/17 03:48*	*08/03/17 16:14*	*20*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.018	0.0096	mg/Kg	☼	08/02/17 03:57	08/03/17 11:39	1
PCB-1221	ND		0.018	0.0094	mg/Kg	☼	08/02/17 03:57	08/03/17 11:39	1
PCB-1232	ND		0.018	0.0072	mg/Kg	☼	08/02/17 03:57	08/03/17 11:39	1
PCB-1242	ND		0.018	0.014	mg/Kg	☼	08/02/17 03:57	08/03/17 11:39	1
PCB-1248	**0.78**		0.018	0.0086	mg/Kg	☼	08/02/17 03:57	08/03/17 11:39	1
PCB-1254	**0.29**		0.018	0.0079	mg/Kg	☼	08/02/17 03:57	08/03/17 11:39	1
PCB-1260	**0.049**		0.018	0.012	mg/Kg	☼	08/02/17 03:57	08/03/17 11:39	1
PCB-1262	ND		0.018	0.013	mg/Kg	☼	08/02/17 03:57	08/03/17 11:39	1
PCB-1268	ND		0.018	0.0055	mg/Kg	☼	08/02/17 03:57	08/03/17 11:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*58*		*23 - 150*	*08/02/17 03:57*	*08/03/17 11:39*	*1*
DCB Decachlorobiphenyl (Surr)	*62*		*23 - 150*	*08/02/17 03:57*	*08/03/17 11:39*	*1*
Tetrachloro-m-xylene (Surr)	*69*		*27 - 138*	*08/02/17 03:57*	*08/03/17 11:39*	*1*
Tetrachloro-m-xylene (Surr)	*70*		*27 - 138*	*08/02/17 03:57*	*08/03/17 11:39*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**7.8**		1.1	0.50	mg/Kg	☼	07/31/17 10:55	08/01/17 09:26	1
Barium	**71**		23	6.1	mg/Kg	☼	07/31/17 10:55	08/01/17 09:26	1
Beryllium	**0.33**	**J**	0.46	0.12	mg/Kg	☼	07/31/17 10:55	08/01/17 09:26	1
Cadmium	**0.14**	**J**	0.57	0.13	mg/Kg	☼	07/31/17 10:55	08/01/17 09:26	1
Chromium	**10**		0.57	0.15	mg/Kg	☼	07/31/17 10:55	08/01/17 09:26	1
Copper	**56**	**F1**	2.9	0.88	mg/Kg	☼	07/31/17 10:55	08/01/17 09:26	1

Client Sample ID: WB3-4, S1, C 072817 — Lab Sample ID: 180-68716-3

Date Collected: 07/28/17 12:30 — Matrix: Solid
Date Received: 07/29/17 09:00 — Percent Solids: 90.2

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	55	F1	1.1	0.37	mg/Kg	☼	07/31/17 10:55	08/01/17 09:26	1
Manganese	390		1.7	0.46	mg/Kg	☼	07/31/17 10:55	08/01/17 09:26	1
Nickel	26		4.6	1.0	mg/Kg	☼	07/31/17 10:55	08/01/17 09:26	1
Selenium	0.51	J ^	1.1	0.45	mg/Kg	☼	07/31/17 10:55	08/01/17 09:26	1
Silver	ND		0.57	0.19	mg/Kg	☼	07/31/17 10:55	08/01/17 09:26	1
Zinc	65		2.3	1.2	mg/Kg	☼	07/31/17 10:55	08/01/17 09:26	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.037	J F1	0.038	0.0085	mg/Kg	☼	08/01/17 06:50	08/02/17 06:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.8		0.1	0.1	%			07/31/17 12:31	1
Percent Solids	90.2		0.1	0.1	%			07/31/17 12:31	1
Cyanide, Total	1.1		0.54	0.17	mg/Kg	☼	08/02/17 13:35	08/03/17 11:24	1

Client Sample ID: WB3-4, S2, A 072817 — Lab Sample ID: 180-68716-4

Date Collected: 07/28/17 14:50 — Matrix: Solid
Date Received: 07/29/17 09:00 — Percent Solids: 90.2

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.019	0.0030	mg/Kg	☼	07/31/17 05:29	07/31/17 13:49	1
Benzene	ND		0.0048	0.0019	mg/Kg	☼	07/31/17 05:29	07/31/17 13:49	1
2-Butanone (MEK)	ND		0.0048	0.0028	mg/Kg	☼	07/31/17 05:29	07/31/17 13:49	1
Carbon tetrachloride	ND		0.0048	0.0032	mg/Kg	☼	07/31/17 05:29	07/31/17 13:49	1
Chlorobenzene	ND		0.0048	0.0015	mg/Kg	☼	07/31/17 05:29	07/31/17 13:49	1
Chloroform	ND		0.0048	0.0020	mg/Kg	☼	07/31/17 05:29	07/31/17 13:49	1
cis-1,2-Dichloroethene	ND		0.0048	0.0015	mg/Kg	☼	07/31/17 05:29	07/31/17 13:49	1
1,2-Dichlorobenzene	ND		0.0048	0.0039	mg/Kg	☼	07/31/17 05:29	07/31/17 13:49	1
1,3-Dichlorobenzene	ND		0.0048	0.0015	mg/Kg	☼	07/31/17 05:29	07/31/17 13:49	1
1,4-Dichlorobenzene	ND		0.0048	0.00098	mg/Kg	☼	07/31/17 05:29	07/31/17 13:49	1
1,1-Dichloroethane	ND		0.0048	0.0017	mg/Kg	☼	07/31/17 05:29	07/31/17 13:49	1
1,2-Dichloroethane	ND	*	0.0048	0.0014	mg/Kg	☼	07/31/17 05:29	07/31/17 13:49	1
1,1-Dichloroethene	ND		0.0048	0.0027	mg/Kg	☼	07/31/17 05:29	07/31/17 13:49	1
Ethylbenzene	ND		0.0048	0.0021	mg/Kg	☼	07/31/17 05:29	07/31/17 13:49	1
Methylene Chloride	ND		0.0048	0.0023	mg/Kg	☼	07/31/17 05:29	07/31/17 13:49	1
Methyl tert-butyl ether	ND		0.0048	0.0035	mg/Kg	☼	07/31/17 05:29	07/31/17 13:49	1
n-Butylbenzene	ND		0.0048	0.0036	mg/Kg	☼	07/31/17 05:29	07/31/17 13:49	1
N-Propylbenzene	ND		0.0048	0.0020	mg/Kg	☼	07/31/17 05:29	07/31/17 13:49	1
sec-Butylbenzene	ND		0.0048	0.0023	mg/Kg	☼	07/31/17 05:29	07/31/17 13:49	1
tert-Butylbenzene	ND		0.0048	0.0018	mg/Kg	☼	07/31/17 05:29	07/31/17 13:49	1
Tetrachloroethene	ND		0.0048	0.0019	mg/Kg	☼	07/31/17 05:29	07/31/17 13:49	1
Toluene	ND		0.0048	0.0016	mg/Kg	☼	07/31/17 05:29	07/31/17 13:49	1
trans-1,2-Dichloroethene	ND		0.0048	0.0024	mg/Kg	☼	07/31/17 05:29	07/31/17 13:49	1
1,1,1-Trichloroethane	ND		0.0048	0.0024	mg/Kg	☼	07/31/17 05:29	07/31/17 13:49	1
Trichloroethene	ND		0.0048	0.0014	mg/Kg	☼	07/31/17 05:29	07/31/17 13:49	1
1,2,4-Trimethylbenzene	ND		0.0048	0.0013	mg/Kg	☼	07/31/17 05:29	07/31/17 13:49	1
1,3,5-Trimethylbenzene	ND		0.0048	0.0016	mg/Kg	☼	07/31/17 05:29	07/31/17 13:49	1

Client Sample ID: WB3-4, S2, A 072817 — Lab Sample ID: 180-68716-4

Date Collected: 07/28/17 14:50 — **Matrix: Solid**
Date Received: 07/29/17 09:00 — **Percent Solids: 90.2**

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		0.0048	0.0035	mg/Kg	☼	07/31/17 05:29	07/31/17 13:49	1
Xylenes, Total	ND		0.0096	0.0041	mg/Kg	☼	07/31/17 05:29	07/31/17 13:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*63 - 120*	*07/31/17 05:29*	*07/31/17 13:49*	*1*
Dibromofluoromethane (Surr)	*98*		*68 - 121*	*07/31/17 05:29*	*07/31/17 13:49*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*52 - 124*	*07/31/17 05:29*	*07/31/17 13:49*	*1*
Toluene-d8 (Surr)	*111*		*72 - 127*	*07/31/17 05:29*	*07/31/17 13:49*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.8**		0.1	0.1	%			07/31/17 12:31	1
Percent Solids	**90.2**		0.1	0.1	%			07/31/17 12:31	1

Client Sample ID: WB3-4, S2, B 072817 — Lab Sample ID: 180-68716-5

Date Collected: 07/28/17 14:55 — **Matrix: Solid**
Date Received: 07/29/17 09:00 — **Percent Solids: 90.4**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.017	0.0026	mg/Kg	☼	07/31/17 05:29	07/31/17 14:11	1
Benzene	ND		0.0041	0.0016	mg/Kg	☼	07/31/17 05:29	07/31/17 14:11	1
2-Butanone (MEK)	ND		0.0041	0.0024	mg/Kg	☼	07/31/17 05:29	07/31/17 14:11	1
Carbon tetrachloride	ND		0.0041	0.0028	mg/Kg	☼	07/31/17 05:29	07/31/17 14:11	1
Chlorobenzene	ND		0.0041	0.0013	mg/Kg	☼	07/31/17 05:29	07/31/17 14:11	1
Chloroform	ND		0.0041	0.0018	mg/Kg	☼	07/31/17 05:29	07/31/17 14:11	1
cis-1,2-Dichloroethene	ND		0.0041	0.0013	mg/Kg	☼	07/31/17 05:29	07/31/17 14:11	1
1,2-Dichlorobenzene	ND		0.0041	0.0033	mg/Kg	☼	07/31/17 05:29	07/31/17 14:11	1
1,3-Dichlorobenzene	ND		0.0041	0.0013	mg/Kg	☼	07/31/17 05:29	07/31/17 14:11	1
1,4-Dichlorobenzene	ND		0.0041	0.00085	mg/Kg	☼	07/31/17 05:29	07/31/17 14:11	1
1,1-Dichloroethane	ND		0.0041	0.0015	mg/Kg	☼	07/31/17 05:29	07/31/17 14:11	1
1,2-Dichloroethane	ND	*	0.0041	0.0012	mg/Kg	☼	07/31/17 05:29	07/31/17 14:11	1
1,1-Dichloroethene	ND		0.0041	0.0024	mg/Kg	☼	07/31/17 05:29	07/31/17 14:11	1
Ethylbenzene	ND		0.0041	0.0018	mg/Kg	☼	07/31/17 05:29	07/31/17 14:11	1
Methylene Chloride	ND		0.0041	0.0020	mg/Kg	☼	07/31/17 05:29	07/31/17 14:11	1
Methyl tert-butyl ether	ND		0.0041	0.0031	mg/Kg	☼	07/31/17 05:29	07/31/17 14:11	1
n-Butylbenzene	ND		0.0041	0.0031	mg/Kg	☼	07/31/17 05:29	07/31/17 14:11	1
N-Propylbenzene	ND		0.0041	0.0018	mg/Kg	☼	07/31/17 05:29	07/31/17 14:11	1
sec-Butylbenzene	ND		0.0041	0.0020	mg/Kg	☼	07/31/17 05:29	07/31/17 14:11	1
tert-Butylbenzene	ND		0.0041	0.0015	mg/Kg	☼	07/31/17 05:29	07/31/17 14:11	1
Tetrachloroethene	ND		0.0041	0.0017	mg/Kg	☼	07/31/17 05:29	07/31/17 14:11	1
Toluene	ND		0.0041	0.0014	mg/Kg	☼	07/31/17 05:29	07/31/17 14:11	1
trans-1,2-Dichloroethene	ND		0.0041	0.0021	mg/Kg	☼	07/31/17 05:29	07/31/17 14:11	1
1,1,1-Trichloroethane	ND		0.0041	0.0021	mg/Kg	☼	07/31/17 05:29	07/31/17 14:11	1
Trichloroethene	ND		0.0041	0.0012	mg/Kg	☼	07/31/17 05:29	07/31/17 14:11	1
1,2,4-Trimethylbenzene	ND		0.0041	0.0011	mg/Kg	☼	07/31/17 05:29	07/31/17 14:11	1
1,3,5-Trimethylbenzene	ND		0.0041	0.0014	mg/Kg	☼	07/31/17 05:29	07/31/17 14:11	1
Vinyl chloride	ND		0.0041	0.0030	mg/Kg	☼	07/31/17 05:29	07/31/17 14:11	1
Xylenes, Total	ND		0.0083	0.0036	mg/Kg	☼	07/31/17 05:29	07/31/17 14:11	1

Client Sample ID: WB3-4, S2, B 072817 — Lab Sample ID: 180-68716-5

Date Collected: 07/28/17 14:55 — **Matrix: Solid**
Date Received: 07/29/17 09:00 — **Percent Solids: 90.4**

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*63 - 120*	*07/31/17 05:29*	*07/31/17 14:11*	*1*
Dibromofluoromethane (Surr)	*94*		*68 - 121*	*07/31/17 05:29*	*07/31/17 14:11*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*52 - 124*	*07/31/17 05:29*	*07/31/17 14:11*	*1*
Toluene-d8 (Surr)	*105*		*72 - 127*	*07/31/17 05:29*	*07/31/17 14:11*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.6**		0.1	0.1	%			07/31/17 12:31	1
Percent Solids	**90.4**		0.1	0.1	%			07/31/17 12:31	1

Client Sample ID: WB3-4, S2, C 072817 — Lab Sample ID: 180-68716-6

Date Collected: 07/28/17 15:05 — **Matrix: Solid**
Date Received: 07/29/17 09:00 — **Percent Solids: 89.4**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.0070**	**J**	0.0074	0.0025	mg/Kg	☼	08/02/17 03:48	08/02/17 17:06	1
Acenaphthylene	**0.033**		0.0074	0.0025	mg/Kg	☼	08/02/17 03:48	08/02/17 17:06	1
Anthracene	**0.043**		0.0074	0.0027	mg/Kg	☼	08/02/17 03:48	08/02/17 17:06	1
Benzo[a]anthracene	**0.23**		0.0074	0.0029	mg/Kg	☼	08/02/17 03:48	08/02/17 17:06	1
Benzo[a]pyrene	**0.23**		0.0074	0.0031	mg/Kg	☼	08/02/17 03:48	08/02/17 17:06	1
Benzo[b]fluoranthene	**0.30**		0.0074	0.0032	mg/Kg	☼	08/02/17 03:48	08/02/17 17:06	1
Benzo[g,h,i]perylene	**0.23**		0.0074	0.0032	mg/Kg	☼	08/02/17 03:48	08/02/17 17:06	1
Benzo[k]fluoranthene	**0.11**		0.0074	0.0026	mg/Kg	☼	08/02/17 03:48	08/02/17 17:06	1
Chrysene	**0.22**		0.0074	0.0029	mg/Kg	☼	08/02/17 03:48	08/02/17 17:06	1
Dibenz(a,h)anthracene	**0.042**		0.0074	0.0031	mg/Kg	☼	08/02/17 03:48	08/02/17 17:06	1
Dibenzofuran	**0.019**	**J**	0.037	0.0030	mg/Kg	☼	08/02/17 03:48	08/02/17 17:06	1
1,4-Dioxane	ND		0.074	0.0056	mg/Kg	☼	08/02/17 03:48	08/02/17 17:06	1
Fluoranthene	**0.32**		0.0074	0.0029	mg/Kg	☼	08/02/17 03:48	08/02/17 17:06	1
Fluorene	**0.011**		0.0074	0.0026	mg/Kg	☼	08/02/17 03:48	08/02/17 17:06	1
Hexachlorobenzene	ND		0.0074	0.0030	mg/Kg	☼	08/02/17 03:48	08/02/17 17:06	1
Indeno[1,2,3-cd]pyrene	**0.19**		0.0074	0.0029	mg/Kg	☼	08/02/17 03:48	08/02/17 17:06	1
2-Methylphenol	ND		0.037	0.0033	mg/Kg	☼	08/02/17 03:48	08/02/17 17:06	1
Methylphenol, 3 & 4	ND		0.037	0.0033	mg/Kg	☼	08/02/17 03:48	08/02/17 17:06	1
Naphthalene	**0.049**		0.0074	0.0027	mg/Kg	☼	08/02/17 03:48	08/02/17 17:06	1
Pentachlorophenol	ND		0.19	0.070	mg/Kg	☼	08/02/17 03:48	08/02/17 17:06	1
Phenanthrene	**0.15**		0.0074	0.0031	mg/Kg	☼	08/02/17 03:48	08/02/17 17:06	1
Phenol	ND		0.037	0.0050	mg/Kg	☼	08/02/17 03:48	08/02/17 17:06	1
Pyrene	**0.33**		0.0074	0.0033	mg/Kg	☼	08/02/17 03:48	08/02/17 17:06	1
Hexachloroethane	ND		37	2.7	ug/Kg	☼	08/02/17 03:48	08/02/17 17:06	1
Nitrobenzene	ND		74	2.8	ug/Kg	☼	08/02/17 03:48	08/02/17 17:06	1
Hexachlorobutadiene	ND		7.4	2.3	ug/Kg	☼	08/02/17 03:48	08/02/17 17:06	1
2,4,5-Trichlorophenol	ND		37	3.5	ug/Kg	☼	08/02/17 03:48	08/02/17 17:06	1
2,4,6-Trichlorophenol	ND		37	3.2	ug/Kg	☼	08/02/17 03:48	08/02/17 17:06	1
2,4-Dinitrotoluene	ND		37	4.9	ug/Kg	☼	08/02/17 03:48	08/02/17 17:06	1
Pyridine	ND		37	3.5	ug/Kg	☼	08/02/17 03:48	08/02/17 17:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*67*		*42 - 100*	*08/02/17 03:48*	*08/02/17 17:06*	*1*
2-Fluorophenol (Surr)	*61*		*21 - 107*	*08/02/17 03:48*	*08/02/17 17:06*	*1*
Nitrobenzene-d5 (Surr)	*68*		*35 - 109*	*08/02/17 03:48*	*08/02/17 17:06*	*1*

Client Sample ID: WB3-4, S2, C 072817 **Lab Sample ID: 180-68716-6**
Date Collected: 07/28/17 15:05 **Matrix: Solid**
Date Received: 07/29/17 09:00 **Percent Solids: 89.4**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Phenol-d5 (Surr)	*57*		*29 - 105*	*08/02/17 03:48*	*08/02/17 17:06*	*1*
Terphenyl-d14 (Surr)	*70*		*36 - 113*	*08/02/17 03:48*	*08/02/17 17:06*	*1*
2,4,6-Tribromophenol (Surr)	*77*		*20 - 134*	*08/02/17 03:48*	*08/02/17 17:06*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.018	0.0096	mg/Kg	☼	08/02/17 03:57	08/03/17 12:00	1
PCB-1221	ND		0.018	0.0094	mg/Kg	☼	08/02/17 03:57	08/03/17 12:00	1
PCB-1232	ND		0.018	0.0072	mg/Kg	☼	08/02/17 03:57	08/03/17 12:00	1
PCB-1242	ND		0.018	0.014	mg/Kg	☼	08/02/17 03:57	08/03/17 12:00	1
PCB-1248	**4.4**		0.018	0.0087	mg/Kg	☼	08/02/17 03:57	08/03/17 12:00	1
PCB-1254	**1.4**		0.018	0.0080	mg/Kg	☼	08/02/17 03:57	08/03/17 12:00	1
PCB-1260	**0.18**		0.018	0.012	mg/Kg	☼	08/02/17 03:57	08/03/17 12:00	1
PCB-1262	ND		0.018	0.013	mg/Kg	☼	08/02/17 03:57	08/03/17 12:00	1
PCB-1268	ND		0.018	0.0055	mg/Kg	☼	08/02/17 03:57	08/03/17 12:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	*71*		*23 - 150*	*08/02/17 03:57*	*08/03/17 12:00*	*1*
DCB Decachlorobiphenyl (Surr)	*76*		*23 - 150*	*08/02/17 03:57*	*08/03/17 12:00*	*1*
Tetrachloro-m-xylene (Surr)	*86*		*27 - 138*	*08/02/17 03:57*	*08/03/17 12:00*	*1*
Tetrachloro-m-xylene (Surr)	*85*		*27 - 138*	*08/02/17 03:57*	*08/03/17 12:00*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**7.8**		1.1	0.50	mg/Kg	☼	07/31/17 10:55	08/01/17 09:51	1
Barium	**64**		23	6.1	mg/Kg	☼	07/31/17 10:55	08/01/17 09:51	1
Beryllium	**0.33**	**J**	0.45	0.12	mg/Kg	☼	07/31/17 10:55	08/01/17 09:51	1
Cadmium	**0.13**	**J**	0.57	0.13	mg/Kg	☼	07/31/17 10:55	08/01/17 09:51	1
Chromium	**8.8**		0.57	0.15	mg/Kg	☼	07/31/17 10:55	08/01/17 09:51	1
Copper	**63**		2.8	0.87	mg/Kg	☼	07/31/17 10:55	08/01/17 09:51	1
Lead	**37**		1.1	0.37	mg/Kg	☼	07/31/17 10:55	08/01/17 09:51	1
Manganese	**370**		1.7	0.46	mg/Kg	☼	07/31/17 10:55	08/01/17 09:51	1
Nickel	**21**		4.5	1.0	mg/Kg	☼	07/31/17 10:55	08/01/17 09:51	1
Selenium	ND	^	1.1	0.45	mg/Kg	☼	07/31/17 10:55	08/01/17 09:51	1
Silver	ND		0.57	0.19	mg/Kg	☼	07/31/17 10:55	08/01/17 09:51	1
Zinc	**55**		2.3	1.1	mg/Kg	☼	07/31/17 10:55	08/01/17 09:51	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.029**	**J**	0.035	0.0079	mg/Kg	☼	08/01/17 06:50	08/02/17 07:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**10.6**		0.1	0.1	%			07/31/17 12:31	1
Percent Solids	**89.4**		0.1	0.1	%			07/31/17 12:31	1
Cyanide, Total	**1.9**		0.55	0.17	mg/Kg	☼	08/02/17 13:35	08/03/17 11:26	1

Client Sample ID: WB3-4, S3, A 072817

Lab Sample ID: 180-68716-7
Date Collected: 07/28/17 16:00
Matrix: Solid
Date Received: 07/29/17 09:00
Percent Solids: 87.7

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.021	0.0033	mg/Kg	☼	07/31/17 05:29	07/31/17 14:34	1
Benzene	ND		0.0053	0.0021	mg/Kg	☼	07/31/17 05:29	07/31/17 14:34	1
2-Butanone (MEK)	ND		0.0053	0.0031	mg/Kg	☼	07/31/17 05:29	07/31/17 14:34	1
Carbon tetrachloride	ND		0.0053	0.0035	mg/Kg	☼	07/31/17 05:29	07/31/17 14:34	1
Chlorobenzene	ND		0.0053	0.0017	mg/Kg	☼	07/31/17 05:29	07/31/17 14:34	1
Chloroform	ND		0.0053	0.0022	mg/Kg	☼	07/31/17 05:29	07/31/17 14:34	1
cis-1,2-Dichloroethene	ND		0.0053	0.0017	mg/Kg	☼	07/31/17 05:29	07/31/17 14:34	1
1,2-Dichlorobenzene	ND		0.0053	0.0043	mg/Kg	☼	07/31/17 05:29	07/31/17 14:34	1
1,3-Dichlorobenzene	ND		0.0053	0.0017	mg/Kg	☼	07/31/17 05:29	07/31/17 14:34	1
1,4-Dichlorobenzene	ND		0.0053	0.0011	mg/Kg	☼	07/31/17 05:29	07/31/17 14:34	1
1,1-Dichloroethane	ND		0.0053	0.0019	mg/Kg	☼	07/31/17 05:29	07/31/17 14:34	1
1,2-Dichloroethane	ND	*	0.0053	0.0015	mg/Kg	☼	07/31/17 05:29	07/31/17 14:34	1
1,1-Dichloroethene	ND		0.0053	0.0030	mg/Kg	☼	07/31/17 05:29	07/31/17 14:34	1
Ethylbenzene	ND		0.0053	0.0023	mg/Kg	☼	07/31/17 05:29	07/31/17 14:34	1
Methylene Chloride	ND		0.0053	0.0025	mg/Kg	☼	07/31/17 05:29	07/31/17 14:34	1
Methyl tert-butyl ether	ND		0.0053	0.0039	mg/Kg	☼	07/31/17 05:29	07/31/17 14:34	1
n-Butylbenzene	ND		0.0053	0.0040	mg/Kg	☼	07/31/17 05:29	07/31/17 14:34	1
N-Propylbenzene	ND		0.0053	0.0022	mg/Kg	☼	07/31/17 05:29	07/31/17 14:34	1
sec-Butylbenzene	ND		0.0053	0.0026	mg/Kg	☼	07/31/17 05:29	07/31/17 14:34	1
tert-Butylbenzene	ND		0.0053	0.0019	mg/Kg	☼	07/31/17 05:29	07/31/17 14:34	1
Tetrachloroethene	ND		0.0053	0.0021	mg/Kg	☼	07/31/17 05:29	07/31/17 14:34	1
Toluene	ND		0.0053	0.0018	mg/Kg	☼	07/31/17 05:29	07/31/17 14:34	1
trans-1,2-Dichloroethene	ND		0.0053	0.0027	mg/Kg	☼	07/31/17 05:29	07/31/17 14:34	1
1,1,1-Trichloroethane	ND		0.0053	0.0027	mg/Kg	☼	07/31/17 05:29	07/31/17 14:34	1
Trichloroethene	ND		0.0053	0.0016	mg/Kg	☼	07/31/17 05:29	07/31/17 14:34	1
1,2,4-Trimethylbenzene	ND		0.0053	0.0014	mg/Kg	☼	07/31/17 05:29	07/31/17 14:34	1
1,3,5-Trimethylbenzene	ND		0.0053	0.0018	mg/Kg	☼	07/31/17 05:29	07/31/17 14:34	1
Vinyl chloride	ND		0.0053	0.0039	mg/Kg	☼	07/31/17 05:29	07/31/17 14:34	1
Xylenes, Total	ND		0.011	0.0046	mg/Kg	☼	07/31/17 05:29	07/31/17 14:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*63 - 120*	*07/31/17 05:29*	*07/31/17 14:34*	*1*
Dibromofluoromethane (Surr)	*98*		*68 - 121*	*07/31/17 05:29*	*07/31/17 14:34*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*52 - 124*	*07/31/17 05:29*	*07/31/17 14:34*	*1*
Toluene-d8 (Surr)	*109*		*72 - 127*	*07/31/17 05:29*	*07/31/17 14:34*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**12.3**		0.1	0.1	%			07/31/17 12:31	1
Percent Solids	**87.7**		0.1	0.1	%			07/31/17 12:31	1

Client Sample ID: WB3-4, S3, B 072817

Lab Sample ID: 180-68716-8
Date Collected: 07/28/17 16:05
Matrix: Solid
Date Received: 07/29/17 09:00
Percent Solids: 89.2

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.017	0.0027	mg/Kg	☼	07/31/17 05:29	07/31/17 14:57	1
Benzene	ND		0.0043	0.0017	mg/Kg	☼	07/31/17 05:29	07/31/17 14:57	1
2-Butanone (MEK)	ND		0.0043	0.0025	mg/Kg	☼	07/31/17 05:29	07/31/17 14:57	1

Client Sample ID: WB3-4, S3, B 072817 — Lab Sample ID: 180-68716-8

Date Collected: 07/28/17 16:05 — **Matrix: Solid**
Date Received: 07/29/17 09:00 — **Percent Solids: 89.2**

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	ND		0.0043	0.0029	mg/Kg	☼	07/31/17 05:29	07/31/17 14:57	1
Chlorobenzene	ND		0.0043	0.0014	mg/Kg	☼	07/31/17 05:29	07/31/17 14:57	1
Chloroform	ND		0.0043	0.0018	mg/Kg	☼	07/31/17 05:29	07/31/17 14:57	1
cis-1,2-Dichloroethene	ND		0.0043	0.0014	mg/Kg	☼	07/31/17 05:29	07/31/17 14:57	1
1,2-Dichlorobenzene	ND		0.0043	0.0035	mg/Kg	☼	07/31/17 05:29	07/31/17 14:57	1
1,3-Dichlorobenzene	ND		0.0043	0.0014	mg/Kg	☼	07/31/17 05:29	07/31/17 14:57	1
1,4-Dichlorobenzene	ND		0.0043	0.00088	mg/Kg	☼	07/31/17 05:29	07/31/17 14:57	1
1,1-Dichloroethane	ND		0.0043	0.0016	mg/Kg	☼	07/31/17 05:29	07/31/17 14:57	1
1,2-Dichloroethane	ND	*	0.0043	0.0013	mg/Kg	☼	07/31/17 05:29	07/31/17 14:57	1
1,1-Dichloroethene	ND		0.0043	0.0025	mg/Kg	☼	07/31/17 05:29	07/31/17 14:57	1
Ethylbenzene	ND		0.0043	0.0019	mg/Kg	☼	07/31/17 05:29	07/31/17 14:57	1
Methylene Chloride	ND		0.0043	0.0020	mg/Kg	☼	07/31/17 05:29	07/31/17 14:57	1
Methyl tert-butyl ether	ND		0.0043	0.0032	mg/Kg	☼	07/31/17 05:29	07/31/17 14:57	1
n-Butylbenzene	ND		0.0043	0.0033	mg/Kg	☼	07/31/17 05:29	07/31/17 14:57	1
N-Propylbenzene	ND		0.0043	0.0018	mg/Kg	☼	07/31/17 05:29	07/31/17 14:57	1
sec-Butylbenzene	ND		0.0043	0.0021	mg/Kg	☼	07/31/17 05:29	07/31/17 14:57	1
tert-Butylbenzene	ND		0.0043	0.0016	mg/Kg	☼	07/31/17 05:29	07/31/17 14:57	1
Tetrachloroethene	ND		0.0043	0.0017	mg/Kg	☼	07/31/17 05:29	07/31/17 14:57	1
Toluene	ND		0.0043	0.0015	mg/Kg	☼	07/31/17 05:29	07/31/17 14:57	1
trans-1,2-Dichloroethene	ND		0.0043	0.0022	mg/Kg	☼	07/31/17 05:29	07/31/17 14:57	1
1,1,1-Trichloroethane	ND		0.0043	0.0022	mg/Kg	☼	07/31/17 05:29	07/31/17 14:57	1
Trichloroethene	ND		0.0043	0.0013	mg/Kg	☼	07/31/17 05:29	07/31/17 14:57	1
1,2,4-Trimethylbenzene	ND		0.0043	0.0012	mg/Kg	☼	07/31/17 05:29	07/31/17 14:57	1
1,3,5-Trimethylbenzene	ND		0.0043	0.0015	mg/Kg	☼	07/31/17 05:29	07/31/17 14:57	1
Vinyl chloride	ND		0.0043	0.0032	mg/Kg	☼	07/31/17 05:29	07/31/17 14:57	1
Xylenes, Total	ND		0.0086	0.0037	mg/Kg	☼	07/31/17 05:29	07/31/17 14:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*63 - 120*	*07/31/17 05:29*	*07/31/17 14:57*	*1*
Dibromofluoromethane (Surr)	*95*		*68 - 121*	*07/31/17 05:29*	*07/31/17 14:57*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*52 - 124*	*07/31/17 05:29*	*07/31/17 14:57*	*1*
Toluene-d8 (Surr)	*106*		*72 - 127*	*07/31/17 05:29*	*07/31/17 14:57*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**10.8**		0.1	0.1	%			07/31/17 12:31	1
Percent Solids	**89.2**		0.1	0.1	%			07/31/17 12:31	1

Client Sample ID: WB3-4, S3, C 072817 — Lab Sample ID: 180-68716-9

Date Collected: 07/28/17 16:15 — **Matrix: Solid**
Date Received: 07/29/17 09:00 — **Percent Solids: 88.8**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.0041**	**J**	0.0075	0.0025	mg/Kg	☼	08/02/17 03:48	08/02/17 17:33	1
Acenaphthylene	**0.018**		0.0075	0.0025	mg/Kg	☼	08/02/17 03:48	08/02/17 17:33	1
Anthracene	**0.027**		0.0075	0.0028	mg/Kg	☼	08/02/17 03:48	08/02/17 17:33	1
Benzo[a]anthracene	**0.12**		0.0075	0.0030	mg/Kg	☼	08/02/17 03:48	08/02/17 17:33	1
Benzo[a]pyrene	**0.11**		0.0075	0.0031	mg/Kg	☼	08/02/17 03:48	08/02/17 17:33	1
Benzo[b]fluoranthene	**0.18**		0.0075	0.0033	mg/Kg	☼	08/02/17 03:48	08/02/17 17:33	1

Client Sample ID: WB3-4, S3, C 072817 **Lab Sample ID: 180-68716-9**
Date Collected: 07/28/17 16:15 **Matrix: Solid**
Date Received: 07/29/17 09:00 **Percent Solids: 88.8**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	**0.11**		0.0075	0.0033	mg/Kg	☼	08/02/17 03:48	08/02/17 17:33	1
Benzo[k]fluoranthene	**0.049**		0.0075	0.0026	mg/Kg	☼	08/02/17 03:48	08/02/17 17:33	1
Chrysene	**0.13**		0.0075	0.0029	mg/Kg	☼	08/02/17 03:48	08/02/17 17:33	1
Dibenz(a,h)anthracene	**0.024**		0.0075	0.0031	mg/Kg	☼	08/02/17 03:48	08/02/17 17:33	1
Dibenzofuran	**0.014**	**J**	0.037	0.0030	mg/Kg	☼	08/02/17 03:48	08/02/17 17:33	1
1,4-Dioxane	ND		0.075	0.0057	mg/Kg	☼	08/02/17 03:48	08/02/17 17:33	1
Fluoranthene	**0.18**		0.0075	0.0030	mg/Kg	☼	08/02/17 03:48	08/02/17 17:33	1
Fluorene	**0.0066**	**J**	0.0075	0.0027	mg/Kg	☼	08/02/17 03:48	08/02/17 17:33	1
Hexachlorobenzene	ND		0.0075	0.0030	mg/Kg	☼	08/02/17 03:48	08/02/17 17:33	1
Indeno[1,2,3-cd]pyrene	**0.086**		0.0075	0.0029	mg/Kg	☼	08/02/17 03:48	08/02/17 17:33	1
2-Methylphenol	ND		0.037	0.0033	mg/Kg	☼	08/02/17 03:48	08/02/17 17:33	1
Methylphenol, 3 & 4	ND		0.037	0.0033	mg/Kg	☼	08/02/17 03:48	08/02/17 17:33	1
Naphthalene	**0.029**		0.0075	0.0027	mg/Kg	☼	08/02/17 03:48	08/02/17 17:33	1
Pentachlorophenol	ND		0.19	0.071	mg/Kg	☼	08/02/17 03:48	08/02/17 17:33	1
Phenanthrene	**0.10**		0.0075	0.0031	mg/Kg	☼	08/02/17 03:48	08/02/17 17:33	1
Phenol	ND		0.037	0.0051	mg/Kg	☼	08/02/17 03:48	08/02/17 17:33	1
Pyrene	**0.22**		0.0075	0.0033	mg/Kg	☼	08/02/17 03:48	08/02/17 17:33	1
Hexachloroethane	ND		37	2.7	ug/Kg	☼	08/02/17 03:48	08/02/17 17:33	1
Nitrobenzene	ND		75	2.9	ug/Kg	☼	08/02/17 03:48	08/02/17 17:33	1
Hexachlorobutadiene	ND		7.5	2.4	ug/Kg	☼	08/02/17 03:48	08/02/17 17:33	1
2,4,5-Trichlorophenol	ND		37	3.6	ug/Kg	☼	08/02/17 03:48	08/02/17 17:33	1
2,4,6-Trichlorophenol	ND		37	3.3	ug/Kg	☼	08/02/17 03:48	08/02/17 17:33	1
2,4-Dinitrotoluene	ND		37	5.0	ug/Kg	☼	08/02/17 03:48	08/02/17 17:33	1
Pyridine	ND		37	3.6	ug/Kg	☼	08/02/17 03:48	08/02/17 17:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*69*		*42 - 100*	*08/02/17 03:48*	*08/02/17 17:33*	*1*
2-Fluorophenol (Surr)	*58*		*21 - 107*	*08/02/17 03:48*	*08/02/17 17:33*	*1*
Nitrobenzene-d5 (Surr)	*70*		*35 - 109*	*08/02/17 03:48*	*08/02/17 17:33*	*1*
Phenol-d5 (Surr)	*56*		*29 - 105*	*08/02/17 03:48*	*08/02/17 17:33*	*1*
Terphenyl-d14 (Surr)	*68*		*36 - 113*	*08/02/17 03:48*	*08/02/17 17:33*	*1*
2,4,6-Tribromophenol (Surr)	*70*		*20 - 134*	*08/02/17 03:48*	*08/02/17 17:33*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.019	0.0098	mg/Kg	☼	08/02/17 03:57	08/03/17 12:18	1
PCB-1221	ND		0.019	0.0096	mg/Kg	☼	08/02/17 03:57	08/03/17 12:18	1
PCB-1232	ND		0.019	0.0073	mg/Kg	☼	08/02/17 03:57	08/03/17 12:18	1
PCB-1242	ND		0.019	0.015	mg/Kg	☼	08/02/17 03:57	08/03/17 12:18	1
PCB-1248	**2.4**		0.019	0.0088	mg/Kg	☼	08/02/17 03:57	08/03/17 12:18	1
PCB-1254	**0.84**		0.019	0.0081	mg/Kg	☼	08/02/17 03:57	08/03/17 12:18	1
PCB-1260	**0.099**		0.019	0.012	mg/Kg	☼	08/02/17 03:57	08/03/17 12:18	1
PCB-1262	ND		0.019	0.013	mg/Kg	☼	08/02/17 03:57	08/03/17 12:18	1
PCB-1268	ND		0.019	0.0056	mg/Kg	☼	08/02/17 03:57	08/03/17 12:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*64*		*23 - 150*	*08/02/17 03:57*	*08/03/17 12:18*	*1*
DCB Decachlorobiphenyl (Surr)	*70*		*23 - 150*	*08/02/17 03:57*	*08/03/17 12:18*	*1*
Tetrachloro-m-xylene (Surr)	*80*		*27 - 138*	*08/02/17 03:57*	*08/03/17 12:18*	*1*
Tetrachloro-m-xylene (Surr)	*84*		*27 - 138*	*08/02/17 03:57*	*08/03/17 12:18*	*1*

Client Sample ID: WB3-4, S3, C 072817 — Lab Sample ID: 180-68716-9

Date Collected: 07/28/17 16:15 — **Matrix: Solid**
Date Received: 07/29/17 09:00 — **Percent Solids: 88.8**

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.1		1.2	0.52	mg/Kg	☼	07/31/17 10:55	08/01/17 10:06	1
Barium	82		24	6.4	mg/Kg	☼	07/31/17 10:55	08/01/17 10:06	1
Beryllium	0.37	J	0.47	0.12	mg/Kg	☼	07/31/17 10:55	08/01/17 10:06	1
Cadmium	ND		0.59	0.13	mg/Kg	☼	07/31/17 10:55	08/01/17 10:06	1
Chromium	9.6		0.59	0.15	mg/Kg	☼	07/31/17 10:55	08/01/17 10:06	1
Copper	54		3.0	0.91	mg/Kg	☼	07/31/17 10:55	08/01/17 10:06	1
Lead	73		1.2	0.39	mg/Kg	☼	07/31/17 10:55	08/01/17 10:06	1
Manganese	410		1.8	0.48	mg/Kg	☼	07/31/17 10:55	08/01/17 10:06	1
Nickel	21		4.7	1.1	mg/Kg	☼	07/31/17 10:55	08/01/17 10:06	1
Selenium	ND	^	1.2	0.47	mg/Kg	☼	07/31/17 10:55	08/01/17 10:06	1
Silver	ND		0.59	0.20	mg/Kg	☼	07/31/17 10:55	08/01/17 10:06	1
Zinc	62		2.4	1.2	mg/Kg	☼	07/31/17 10:55	08/01/17 10:06	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.027	J	0.037	0.0082	mg/Kg	☼	08/01/17 06:50	08/02/17 07:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	11.2		0.1	0.1	%			07/31/17 12:31	1
Percent Solids	88.8		0.1	0.1	%			07/31/17 12:31	1
Cyanide, Total	1.3		0.56	0.17	mg/Kg	☼	08/02/17 13:35	08/03/17 11:28	1

Client Sample ID: DUPE 19 — Lab Sample ID: 180-68716-10

Date Collected: 07/28/17 00:00 — **Matrix: Solid**
Date Received: 07/29/17 09:00 — **Percent Solids: 88.3**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.021	0.0033	mg/Kg	☼	07/31/17 05:29	07/31/17 15:19	1
Benzene	ND		0.0052	0.0021	mg/Kg	☼	07/31/17 05:29	07/31/17 15:19	1
2-Butanone (MEK)	ND		0.0052	0.0030	mg/Kg	☼	07/31/17 05:29	07/31/17 15:19	1
Carbon tetrachloride	ND		0.0052	0.0035	mg/Kg	☼	07/31/17 05:29	07/31/17 15:19	1
Chlorobenzene	ND		0.0052	0.0016	mg/Kg	☼	07/31/17 05:29	07/31/17 15:19	1
Chloroform	ND		0.0052	0.0022	mg/Kg	☼	07/31/17 05:29	07/31/17 15:19	1
cis-1,2-Dichloroethene	ND		0.0052	0.0016	mg/Kg	☼	07/31/17 05:29	07/31/17 15:19	1
1,2-Dichlorobenzene	ND		0.0052	0.0042	mg/Kg	☼	07/31/17 05:29	07/31/17 15:19	1
1,3-Dichlorobenzene	ND		0.0052	0.0017	mg/Kg	☼	07/31/17 05:29	07/31/17 15:19	1
1,4-Dichlorobenzene	ND		0.0052	0.0011	mg/Kg	☼	07/31/17 05:29	07/31/17 15:19	1
1,1-Dichloroethane	ND		0.0052	0.0019	mg/Kg	☼	07/31/17 05:29	07/31/17 15:19	1
1,2-Dichloroethane	ND	*	0.0052	0.0015	mg/Kg	☼	07/31/17 05:29	07/31/17 15:19	1
1,1-Dichloroethene	ND		0.0052	0.0030	mg/Kg	☼	07/31/17 05:29	07/31/17 15:19	1
Ethylbenzene	ND		0.0052	0.0023	mg/Kg	☼	07/31/17 05:29	07/31/17 15:19	1
Methylene Chloride	ND		0.0052	0.0025	mg/Kg	☼	07/31/17 05:29	07/31/17 15:19	1
Methyl tert-butyl ether	ND		0.0052	0.0039	mg/Kg	☼	07/31/17 05:29	07/31/17 15:19	1
n-Butylbenzene	ND		0.0052	0.0040	mg/Kg	☼	07/31/17 05:29	07/31/17 15:19	1
N-Propylbenzene	ND		0.0052	0.0022	mg/Kg	☼	07/31/17 05:29	07/31/17 15:19	1
sec-Butylbenzene	ND		0.0052	0.0026	mg/Kg	☼	07/31/17 05:29	07/31/17 15:19	1
tert-Butylbenzene	ND		0.0052	0.0019	mg/Kg	☼	07/31/17 05:29	07/31/17 15:19	1
Tetrachloroethene	ND		0.0052	0.0021	mg/Kg	☼	07/31/17 05:29	07/31/17 15:19	1

Client Sample ID: DUPE 19

Lab Sample ID: 180-68716-10
Date Collected: 07/28/17 00:00
Matrix: Solid
Date Received: 07/29/17 09:00
Percent Solids: 88.3

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		0.0052	0.0018	mg/Kg	☼	07/31/17 05:29	07/31/17 15:19	1
trans-1,2-Dichloroethene	ND		0.0052	0.0027	mg/Kg	☼	07/31/17 05:29	07/31/17 15:19	1
1,1,1-Trichloroethane	ND		0.0052	0.0026	mg/Kg	☼	07/31/17 05:29	07/31/17 15:19	1
Trichloroethene	ND		0.0052	0.0016	mg/Kg	☼	07/31/17 05:29	07/31/17 15:19	1
1,2,4-Trimethylbenzene	ND		0.0052	0.0014	mg/Kg	☼	07/31/17 05:29	07/31/17 15:19	1
1,3,5-Trimethylbenzene	ND		0.0052	0.0018	mg/Kg	☼	07/31/17 05:29	07/31/17 15:19	1
Vinyl chloride	ND		0.0052	0.0038	mg/Kg	☼	07/31/17 05:29	07/31/17 15:19	1
Xylenes, Total	ND		0.010	0.0045	mg/Kg	☼	07/31/17 05:29	07/31/17 15:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*63 - 120*	*07/31/17 05:29*	*07/31/17 15:19*	*1*
Dibromofluoromethane (Surr)	*105*		*68 - 121*	*07/31/17 05:29*	*07/31/17 15:19*	*1*
1,2-Dichloroethane-d4 (Surr)	*107*		*52 - 124*	*07/31/17 05:29*	*07/31/17 15:19*	*1*
Toluene-d8 (Surr)	*115*		*72 - 127*	*07/31/17 05:29*	*07/31/17 15:19*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**11.7**		0.1	0.1	%			07/31/17 11:44	1
Percent Solids	**88.3**		0.1	0.1	%			07/31/17 11:44	1

Client Sample ID: DUPE 18

Lab Sample ID: 180-68716-11
Date Collected: 07/28/17 00:00
Matrix: Solid
Date Received: 07/29/17 09:00
Percent Solids: 90.5

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.011**	**J**	0.029	0.0096	mg/Kg	☼	08/02/17 03:48	08/02/17 18:00	4
Acenaphthylene	**0.040**		0.029	0.0097	mg/Kg	☼	08/02/17 03:48	08/02/17 18:00	4
Anthracene	**0.080**		0.029	0.011	mg/Kg	☼	08/02/17 03:48	08/02/17 18:00	4
Benzo[a]anthracene	**0.34**		0.029	0.011	mg/Kg	☼	08/02/17 03:48	08/02/17 18:00	4
Benzo[a]pyrene	**0.30**		0.029	0.012	mg/Kg	☼	08/02/17 03:48	08/02/17 18:00	4
Benzo[b]fluoranthene	**0.41**		0.029	0.012	mg/Kg	☼	08/02/17 03:48	08/02/17 18:00	4
Benzo[g,h,i]perylene	**0.27**		0.029	0.012	mg/Kg	☼	08/02/17 03:48	08/02/17 18:00	4
Benzo[k]fluoranthene	**0.15**		0.029	0.0099	mg/Kg	☼	08/02/17 03:48	08/02/17 18:00	4
Chrysene	**0.31**		0.029	0.011	mg/Kg	☼	08/02/17 03:48	08/02/17 18:00	4
Dibenz(a,h)anthracene	**0.067**		0.029	0.012	mg/Kg	☼	08/02/17 03:48	08/02/17 18:00	4
Dibenzofuran	**0.042**	**J**	0.14	0.011	mg/Kg	☼	08/02/17 03:48	08/02/17 18:00	4
1,4-Dioxane	ND		0.29	0.021	mg/Kg	☼	08/02/17 03:48	08/02/17 18:00	4
Fluoranthene	**0.51**		0.029	0.011	mg/Kg	☼	08/02/17 03:48	08/02/17 18:00	4
Fluorene	**0.016**	**J**	0.029	0.010	mg/Kg	☼	08/02/17 03:48	08/02/17 18:00	4
Hexachlorobenzene	ND		0.029	0.011	mg/Kg	☼	08/02/17 03:48	08/02/17 18:00	4
Indeno[1,2,3-cd]pyrene	**0.23**		0.029	0.011	mg/Kg	☼	08/02/17 03:48	08/02/17 18:00	4
2-Methylphenol	ND		0.14	0.013	mg/Kg	☼	08/02/17 03:48	08/02/17 18:00	4
Methylphenol, 3 & 4	ND		0.14	0.013	mg/Kg	☼	08/02/17 03:48	08/02/17 18:00	4
Naphthalene	**0.096**		0.029	0.010	mg/Kg	☼	08/02/17 03:48	08/02/17 18:00	4
Pentachlorophenol	ND		0.73	0.27	mg/Kg	☼	08/02/17 03:48	08/02/17 18:00	4
Phenanthrene	**0.28**		0.029	0.012	mg/Kg	☼	08/02/17 03:48	08/02/17 18:00	4
Phenol	ND		0.14	0.019	mg/Kg	☼	08/02/17 03:48	08/02/17 18:00	4
Pyrene	**0.62**		0.029	0.013	mg/Kg	☼	08/02/17 03:48	08/02/17 18:00	4
Hexachloroethane	ND		140	10	ug/Kg	☼	08/02/17 03:48	08/02/17 18:00	4

Client Sample ID: DUPE 18
Date Collected: 07/28/17 00:00
Date Received: 07/29/17 09:00

Lab Sample ID: 180-68716-11
Matrix: Solid
Percent Solids: 90.5

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrobenzene	ND		290	11	ug/Kg	☼	08/02/17 03:48	08/02/17 18:00	4
Hexachlorobutadiene	ND		29	9.0	ug/Kg	☼	08/02/17 03:48	08/02/17 18:00	4
2,4,5-Trichlorophenol	ND		140	14	ug/Kg	☼	08/02/17 03:48	08/02/17 18:00	4
2,4,6-Trichlorophenol	ND		140	12	ug/Kg	☼	08/02/17 03:48	08/02/17 18:00	4
2,4-Dinitrotoluene	ND		140	19	ug/Kg	☼	08/02/17 03:48	08/02/17 18:00	4
Pyridine	ND		140	14	ug/Kg	☼	08/02/17 03:48	08/02/17 18:00	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*71*		*42 - 100*	*08/02/17 03:48*	*08/02/17 18:00*	*4*
2-Fluorophenol (Surr)	*62*		*21 - 107*	*08/02/17 03:48*	*08/02/17 18:00*	*4*
Nitrobenzene-d5 (Surr)	*72*		*35 - 109*	*08/02/17 03:48*	*08/02/17 18:00*	*4*
Phenol-d5 (Surr)	*58*		*29 - 105*	*08/02/17 03:48*	*08/02/17 18:00*	*4*
Terphenyl-d14 (Surr)	*100*		*36 - 113*	*08/02/17 03:48*	*08/02/17 18:00*	*4*
2,4,6-Tribromophenol (Surr)	*78*		*20 - 134*	*08/02/17 03:48*	*08/02/17 18:00*	*4*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.018	0.0097	mg/Kg	☼	08/02/17 03:57	08/03/17 12:38	1
PCB-1221	ND		0.018	0.0095	mg/Kg	☼	08/02/17 03:57	08/03/17 12:38	1
PCB-1232	ND		0.018	0.0072	mg/Kg	☼	08/02/17 03:57	08/03/17 12:38	1
PCB-1242	ND		0.018	0.015	mg/Kg	☼	08/02/17 03:57	08/03/17 12:38	1
PCB-1248	**1.4**		0.018	0.0087	mg/Kg	☼	08/02/17 03:57	08/03/17 12:38	1
PCB-1254	**0.48**		0.018	0.0080	mg/Kg	☼	08/02/17 03:57	08/03/17 12:38	1
PCB-1260	**0.072**		0.018	0.012	mg/Kg	☼	08/02/17 03:57	08/03/17 12:38	1
PCB-1262	ND		0.018	0.013	mg/Kg	☼	08/02/17 03:57	08/03/17 12:38	1
PCB-1268	ND		0.018	0.0056	mg/Kg	☼	08/02/17 03:57	08/03/17 12:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*64*		*23 - 150*	*08/02/17 03:57*	*08/03/17 12:38*	*1*
DCB Decachlorobiphenyl (Surr)	*71*		*23 - 150*	*08/02/17 03:57*	*08/03/17 12:38*	*1*
Tetrachloro-m-xylene (Surr)	*77*		*27 - 138*	*08/02/17 03:57*	*08/03/17 12:38*	*1*
Tetrachloro-m-xylene (Surr)	*79*		*27 - 138*	*08/02/17 03:57*	*08/03/17 12:38*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**7.2**		1.1	0.47	mg/Kg	☼	07/31/17 10:55	08/01/17 10:11	1
Barium	**73**		21	5.7	mg/Kg	☼	07/31/17 10:55	08/01/17 10:11	1
Beryllium	**0.32**	**J**	0.43	0.11	mg/Kg	☼	07/31/17 10:55	08/01/17 10:11	1
Cadmium	**0.16**	**J**	0.53	0.12	mg/Kg	☼	07/31/17 10:55	08/01/17 10:11	1
Chromium	**10**		0.53	0.14	mg/Kg	☼	07/31/17 10:55	08/01/17 10:11	1
Copper	**64**		2.7	0.82	mg/Kg	☼	07/31/17 10:55	08/01/17 10:11	1
Lead	**79**		1.1	0.35	mg/Kg	☼	07/31/17 10:55	08/01/17 10:11	1
Manganese	**430**		1.6	0.43	mg/Kg	☼	07/31/17 10:55	08/01/17 10:11	1
Nickel	**33**		4.3	0.96	mg/Kg	☼	07/31/17 10:55	08/01/17 10:11	1
Selenium	ND	^	1.1	0.42	mg/Kg	☼	07/31/17 10:55	08/01/17 10:11	1
Silver	ND		0.53	0.18	mg/Kg	☼	07/31/17 10:55	08/01/17 10:11	1
Zinc	**72**		2.1	1.1	mg/Kg	☼	07/31/17 10:55	08/01/17 10:11	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.039**		0.038	0.0086	mg/Kg	☼	08/01/17 06:50	08/02/17 07:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.5		0.1	0.1	%			07/31/17 11:44	1
Percent Solids	90.5		0.1	0.1	%			07/31/17 11:44	1
Cyanide, Total	0.86		0.55	0.17	mg/Kg	☼	08/02/17 13:35	08/03/17 11:30	1

Client Sample ID: TRIP BLANK #1

Lab Sample ID: 180-68716-12
Date Collected: 07/28/17 00:00
Matrix: Water
Date Received: 07/29/17 09:00

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		5.0	3.1	ug/L			07/31/17 08:32	1
Benzene	ND		1.0	0.18	ug/L			07/31/17 08:32	1
2-Butanone (MEK)	ND		5.0	2.6	ug/L			07/31/17 08:32	1
Carbon tetrachloride	ND		1.0	0.56	ug/L			07/31/17 08:32	1
Chlorobenzene	ND		1.0	0.15	ug/L			07/31/17 08:32	1
Chloroform	ND		1.0	0.27	ug/L			07/31/17 08:32	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			07/31/17 08:32	1
1,2-Dichlorobenzene	ND		1.0	0.23	ug/L			07/31/17 08:32	1
1,3-Dichlorobenzene	ND		1.0	0.21	ug/L			07/31/17 08:32	1
1,4-Dichlorobenzene	ND		1.0	0.24	ug/L			07/31/17 08:32	1
1,1-Dichloroethane	ND		1.0	0.34	ug/L			07/31/17 08:32	1
1,2-Dichloroethane	ND		1.0	0.24	ug/L			07/31/17 08:32	1
1,1-Dichloroethene	ND		1.0	0.32	ug/L			07/31/17 08:32	1
Ethylbenzene	ND		1.0	0.25	ug/L			07/31/17 08:32	1
Methylene Chloride	ND		1.0	0.94	ug/L			07/31/17 08:32	1
Methyl tert-butyl ether	ND		1.0	0.20	ug/L			07/31/17 08:32	1
n-Butylbenzene	ND		1.0	0.22	ug/L			07/31/17 08:32	1
N-Propylbenzene	ND		1.0	0.20	ug/L			07/31/17 08:32	1
sec-Butylbenzene	ND		1.0	0.22	ug/L			07/31/17 08:32	1
tert-Butylbenzene	ND		1.0	0.17	ug/L			07/31/17 08:32	1
Tetrachloroethene	ND		1.0	0.24	ug/L			07/31/17 08:32	1
Toluene	ND		1.0	0.16	ug/L			07/31/17 08:32	1
trans-1,2-Dichloroethene	ND		1.0	0.20	ug/L			07/31/17 08:32	1
1,1,1-Trichloroethane	ND		1.0	0.27	ug/L			07/31/17 08:32	1
Trichloroethene	ND		1.0	0.20	ug/L			07/31/17 08:32	1
1,2,4-Trimethylbenzene	ND		1.0	0.18	ug/L			07/31/17 08:32	1
1,3,5-Trimethylbenzene	ND		1.0	0.17	ug/L			07/31/17 08:32	1
Vinyl chloride	ND		1.0	0.17	ug/L			07/31/17 08:32	1
Xylenes, Total	ND		2.0	0.27	ug/L			07/31/17 08:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*72 - 120*		*07/31/17 08:32*	*1*
Dibromofluoromethane (Surr)	*97*		*77 - 127*		*07/31/17 08:32*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*72 - 134*		*07/31/17 08:32*	*1*
Toluene-d8 (Surr)	*91*		*80 - 120*		*07/31/17 08:32*	*1*

Method: 8260C - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 180-218552/5
Matrix: Water
Analysis Batch: 218552

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		5.0	3.1	ug/L			07/31/17 04:32	1
Benzene	ND		1.0	0.18	ug/L			07/31/17 04:32	1
2-Butanone (MEK)	ND		5.0	2.6	ug/L			07/31/17 04:32	1
Carbon tetrachloride	ND		1.0	0.56	ug/L			07/31/17 04:32	1
Chlorobenzene	ND		1.0	0.15	ug/L			07/31/17 04:32	1
Chloroform	ND		1.0	0.27	ug/L			07/31/17 04:32	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			07/31/17 04:32	1
1,2-Dichlorobenzene	ND		1.0	0.23	ug/L			07/31/17 04:32	1
1,3-Dichlorobenzene	ND		1.0	0.21	ug/L			07/31/17 04:32	1
1,4-Dichlorobenzene	ND		1.0	0.24	ug/L			07/31/17 04:32	1
1,1-Dichloroethane	ND		1.0	0.34	ug/L			07/31/17 04:32	1
1,2-Dichloroethane	ND		1.0	0.24	ug/L			07/31/17 04:32	1
1,1-Dichloroethene	ND		1.0	0.32	ug/L			07/31/17 04:32	1
Ethylbenzene	ND		1.0	0.25	ug/L			07/31/17 04:32	1
Methylene Chloride	ND		1.0	0.94	ug/L			07/31/17 04:32	1
Methyl tert-butyl ether	ND		1.0	0.20	ug/L			07/31/17 04:32	1
n-Butylbenzene	ND		1.0	0.22	ug/L			07/31/17 04:32	1
N-Propylbenzene	ND		1.0	0.20	ug/L			07/31/17 04:32	1
sec-Butylbenzene	ND		1.0	0.22	ug/L			07/31/17 04:32	1
tert-Butylbenzene	ND		1.0	0.17	ug/L			07/31/17 04:32	1
Tetrachloroethene	ND		1.0	0.24	ug/L			07/31/17 04:32	1
Toluene	ND		1.0	0.16	ug/L			07/31/17 04:32	1
trans-1,2-Dichloroethene	ND		1.0	0.20	ug/L			07/31/17 04:32	1
1,1,1-Trichloroethane	ND		1.0	0.27	ug/L			07/31/17 04:32	1
Trichloroethene	ND		1.0	0.20	ug/L			07/31/17 04:32	1
1,2,4-Trimethylbenzene	ND		1.0	0.18	ug/L			07/31/17 04:32	1
1,3,5-Trimethylbenzene	ND		1.0	0.17	ug/L			07/31/17 04:32	1
Vinyl chloride	ND		1.0	0.17	ug/L			07/31/17 04:32	1
Xylenes, Total	ND		2.0	0.27	ug/L			07/31/17 04:32	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*72 - 120*		*07/31/17 04:32*	*1*
Dibromofluoromethane (Surr)	*94*		*77 - 127*		*07/31/17 04:32*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*72 - 134*		*07/31/17 04:32*	*1*
Toluene-d8 (Surr)	*90*		*80 - 120*		*07/31/17 04:32*	*1*

Lab Sample ID: LCS 180-218552/3
Matrix: Water
Analysis Batch: 218552

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	20.0	17.2		ug/L		86	10 - 150
Benzene	10.0	9.67		ug/L		97	80 - 121
2-Butanone (MEK)	20.0	17.0		ug/L		85	41 - 150
Carbon tetrachloride	10.0	9.54		ug/L		95	59 - 145
Chlorobenzene	10.0	9.59		ug/L		96	80 - 120
Chloroform	10.0	9.36		ug/L		94	78 - 122
cis-1,2-Dichloroethene	10.0	9.47		ug/L		95	80 - 120

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 180-218552/3
Matrix: Water
Analysis Batch: 218552

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichlorobenzene	10.0	9.00		ug/L		90	80 - 120
1,3-Dichlorobenzene	10.0	9.27		ug/L		93	80 - 120
1,4-Dichlorobenzene	10.0	9.22		ug/L		92	80 - 120
1,1-Dichloroethane	10.0	9.56		ug/L		96	76 - 126
1,2-Dichloroethane	10.0	9.05		ug/L		91	72 - 126
1,1-Dichloroethene	10.0	10.3		ug/L		103	71 - 122
Ethylbenzene	10.0	9.57		ug/L		96	80 - 123
Methylene Chloride	10.0	9.27		ug/L		93	71 - 129
Methyl tert-butyl ether	10.0	9.28		ug/L		93	68 - 124
n-Butylbenzene	10.0	10.3		ug/L		103	75 - 120
N-Propylbenzene	10.0	9.77		ug/L		98	78 - 121
sec-Butylbenzene	10.0	10.3		ug/L		103	80 - 121
tert-Butylbenzene	10.0	9.81		ug/L		98	79 - 120
Tetrachloroethene	10.0	9.76		ug/L		98	80 - 122
Toluene	10.0	10.3		ug/L		103	80 - 125
trans-1,2-Dichloroethene	10.0	10.0		ug/L		100	80 - 121
1,1,1-Trichloroethane	10.0	9.71		ug/L		97	57 - 128
Trichloroethene	10.0	9.36		ug/L		94	79 - 120
1,2,4-Trimethylbenzene	10.0	9.83		ug/L		98	80 - 120
1,3,5-Trimethylbenzene	10.0	10.2		ug/L		102	80 - 122
Vinyl chloride	10.0	11.1		ug/L		111	61 - 138
Xylenes, Total	20.0	19.6		ug/L		98	80 - 123

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*72 - 120*
Dibromofluoromethane (Surr)	*95*		*77 - 127*
1,2-Dichloroethane-d4 (Surr)	*92*		*72 - 134*
Toluene-d8 (Surr)	*105*		*80 - 120*

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 180-218535/8
Matrix: Solid
Analysis Batch: 218535

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.020	0.0032	mg/Kg			07/30/17 10:59	1
Benzene	ND		0.0050	0.0020	mg/Kg			07/30/17 10:59	1
2-Butanone (MEK)	ND		0.0050	0.0029	mg/Kg			07/30/17 10:59	1
Carbon tetrachloride	ND		0.0050	0.0033	mg/Kg			07/30/17 10:59	1
Chlorobenzene	ND		0.0050	0.0016	mg/Kg			07/30/17 10:59	1
Chloroform	ND		0.0050	0.0021	mg/Kg			07/30/17 10:59	1
cis-1,2-Dichloroethene	ND		0.0050	0.0016	mg/Kg			07/30/17 10:59	1
1,2-Dichlorobenzene	ND		0.0050	0.0040	mg/Kg			07/30/17 10:59	1
1,3-Dichlorobenzene	ND		0.0050	0.0016	mg/Kg			07/30/17 10:59	1
1,4-Dichlorobenzene	ND		0.0050	0.0010	mg/Kg			07/30/17 10:59	1
1,1-Dichloroethane	ND		0.0050	0.0018	mg/Kg			07/30/17 10:59	1
1,2-Dichloroethane	ND		0.0050	0.0015	mg/Kg			07/30/17 10:59	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 180-218535/8
Matrix: Solid
Analysis Batch: 218535

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		0.0050	0.0029	mg/Kg			07/30/17 10:59	1
Ethylbenzene	ND		0.0050	0.0022	mg/Kg			07/30/17 10:59	1
Methylene Chloride	ND		0.0050	0.0024	mg/Kg			07/30/17 10:59	1
Methyl tert-butyl ether	ND		0.0050	0.0037	mg/Kg			07/30/17 10:59	1
n-Butylbenzene	ND		0.0050	0.0038	mg/Kg			07/30/17 10:59	1
N-Propylbenzene	ND		0.0050	0.0021	mg/Kg			07/30/17 10:59	1
sec-Butylbenzene	ND		0.0050	0.0024	mg/Kg			07/30/17 10:59	1
tert-Butylbenzene	ND		0.0050	0.0018	mg/Kg			07/30/17 10:59	1
Tetrachloroethene	ND		0.0050	0.0020	mg/Kg			07/30/17 10:59	1
Toluene	ND		0.0050	0.0017	mg/Kg			07/30/17 10:59	1
trans-1,2-Dichloroethene	ND		0.0050	0.0025	mg/Kg			07/30/17 10:59	1
1,1,1-Trichloroethane	ND		0.0050	0.0025	mg/Kg			07/30/17 10:59	1
Trichloroethene	ND		0.0050	0.0015	mg/Kg			07/30/17 10:59	1
1,2,4-Trimethylbenzene	ND		0.0050	0.0013	mg/Kg			07/30/17 10:59	1
1,3,5-Trimethylbenzene	ND		0.0050	0.0017	mg/Kg			07/30/17 10:59	1
Vinyl chloride	ND		0.0050	0.0037	mg/Kg			07/30/17 10:59	1
Xylenes, Total	ND		0.010	0.0043	mg/Kg			07/30/17 10:59	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*63 - 120*		*07/30/17 10:59*	*1*
Dibromofluoromethane (Surr)	*104*		*68 - 121*		*07/30/17 10:59*	*1*
1,2-Dichloroethane-d4 (Surr)	*120*		*52 - 124*		*07/30/17 10:59*	*1*
Toluene-d8 (Surr)	*104*		*72 - 127*		*07/30/17 10:59*	*1*

Lab Sample ID: LCS 180-218535/3
Matrix: Solid
Analysis Batch: 218535

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0400	0.0442		mg/Kg		110	20 - 150
Benzene	0.0400	0.0417		mg/Kg		104	77 - 120
2-Butanone (MEK)	0.0400	0.0411		mg/Kg		103	35 - 149
Carbon tetrachloride	0.0400	0.0513	*	mg/Kg		128	69 - 122
Chlorobenzene	0.0400	0.0417		mg/Kg		104	79 - 120
Chloroform	0.0400	0.0460		mg/Kg		115	72 - 120
cis-1,2-Dichloroethene	0.0400	0.0426		mg/Kg		106	80 - 118
1,2-Dichlorobenzene	0.0400	0.0419		mg/Kg		105	71 - 124
1,3-Dichlorobenzene	0.0400	0.0421		mg/Kg		105	75 - 118
1,4-Dichlorobenzene	0.0400	0.0421		mg/Kg		105	77 - 116
1,1-Dichloroethane	0.0400	0.0444		mg/Kg		111	66 - 124
1,2-Dichloroethane	0.0400	0.0490		mg/Kg		122	61 - 127
1,1-Dichloroethene	0.0400	0.0411		mg/Kg		103	59 - 129
Ethylbenzene	0.0400	0.0421		mg/Kg		105	78 - 125
Methylene Chloride	0.0400	0.0417		mg/Kg		104	58 - 127
Methyl tert-butyl ether	0.0400	0.0438		mg/Kg		110	48 - 132
n-Butylbenzene	0.0400	0.0491		mg/Kg		123	59 - 145
N-Propylbenzene	0.0400	0.0448		mg/Kg		112	80 - 120
sec-Butylbenzene	0.0400	0.0468		mg/Kg		117	70 - 130

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 180-218535/3
Matrix: Solid
Analysis Batch: 218535

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
tert-Butylbenzene	0.0400	0.0464		mg/Kg		116	74 - 133
Tetrachloroethene	0.0400	0.0395		mg/Kg		99	78 - 129
Toluene	0.0400	0.0421		mg/Kg		105	78 - 124
trans-1,2-Dichloroethene	0.0400	0.0429		mg/Kg		107	77 - 121
1,1,1-Trichloroethane	0.0400	0.0516	*	mg/Kg		129	67 - 126
Trichloroethene	0.0400	0.0409		mg/Kg		102	76 - 119
1,2,4-Trimethylbenzene	0.0400	0.0453		mg/Kg		113	80 - 121
1,3,5-Trimethylbenzene	0.0400	0.0456		mg/Kg		114	68 - 133
Vinyl chloride	0.0400	0.0337		mg/Kg		84	63 - 124
Xylenes, Total	0.0800	0.0829		mg/Kg		104	83 - 126

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*63 - 120*
Dibromofluoromethane (Surr)	*101*		*68 - 121*
1,2-Dichloroethane-d4 (Surr)	*111*		*52 - 124*
Toluene-d8 (Surr)	*98*		*72 - 127*

Lab Sample ID: LCSD 180-218535/4
Matrix: Solid
Analysis Batch: 218535

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	0.0400	0.0494		mg/Kg		124	20 - 150	11	40
Benzene	0.0400	0.0421		mg/Kg		105	77 - 120	1	20
2-Butanone (MEK)	0.0400	0.0456		mg/Kg		114	35 - 149	11	36
Carbon tetrachloride	0.0400	0.0480		mg/Kg		120	69 - 122	7	22
Chlorobenzene	0.0400	0.0427		mg/Kg		107	79 - 120	2	20
Chloroform	0.0400	0.0462		mg/Kg		115	72 - 120	0	25
cis-1,2-Dichloroethene	0.0400	0.0426		mg/Kg		107	80 - 118	0	20
1,2-Dichlorobenzene	0.0400	0.0429		mg/Kg		107	71 - 124	2	22
1,3-Dichlorobenzene	0.0400	0.0426		mg/Kg		106	75 - 118	1	20
1,4-Dichlorobenzene	0.0400	0.0426		mg/Kg		106	77 - 116	1	20
1,1-Dichloroethane	0.0400	0.0449		mg/Kg		112	66 - 124	1	23
1,2-Dichloroethane	0.0400	0.0509		mg/Kg		127	61 - 127	4	23
1,1-Dichloroethene	0.0400	0.0414		mg/Kg		104	59 - 129	1	25
Ethylbenzene	0.0400	0.0430		mg/Kg		107	78 - 125	2	21
Methylene Chloride	0.0400	0.0425		mg/Kg		106	58 - 127	2	28
Methyl tert-butyl ether	0.0400	0.0471		mg/Kg		118	48 - 132	7	36
n-Butylbenzene	0.0400	0.0482		mg/Kg		120	59 - 145	2	24
N-Propylbenzene	0.0400	0.0438		mg/Kg		109	80 - 120	2	20
sec-Butylbenzene	0.0400	0.0461		mg/Kg		115	70 - 130	2	21
tert-Butylbenzene	0.0400	0.0459		mg/Kg		115	74 - 133	1	22
Tetrachloroethene	0.0400	0.0396		mg/Kg		99	78 - 129	0	20
Toluene	0.0400	0.0424		mg/Kg		106	78 - 124	1	21
trans-1,2-Dichloroethene	0.0400	0.0427		mg/Kg		107	77 - 121	0	20
1,1,1-Trichloroethane	0.0400	0.0476		mg/Kg		119	67 - 126	8	31
Trichloroethene	0.0400	0.0408		mg/Kg		102	76 - 119	0	21
1,2,4-Trimethylbenzene	0.0400	0.0450		mg/Kg		113	80 - 121	1	20

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 180-218535/4
Matrix: Solid
Analysis Batch: 218535

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,3,5-Trimethylbenzene			0.0400	0.0451		mg/Kg		113	68 - 133	1	21
Vinyl chloride			0.0400	0.0327		mg/Kg		82	63 - 124	3	27
Xylenes, Total			0.0800	0.0846		mg/Kg		106	83 - 126	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*106*		*63 - 120*
Dibromofluoromethane (Surr)	*109*		*68 - 121*
1,2-Dichloroethane-d4 (Surr)	*121*		*52 - 124*
Toluene-d8 (Surr)	*105*		*72 - 127*

Lab Sample ID: MB 180-218566/9
Matrix: Solid
Analysis Batch: 218566

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.020	0.0032	mg/Kg			07/31/17 08:52	1
Benzene	ND		0.0050	0.0020	mg/Kg			07/31/17 08:52	1
2-Butanone (MEK)	ND		0.0050	0.0029	mg/Kg			07/31/17 08:52	1
Carbon tetrachloride	ND		0.0050	0.0033	mg/Kg			07/31/17 08:52	1
Chlorobenzene	ND		0.0050	0.0016	mg/Kg			07/31/17 08:52	1
Chloroform	ND		0.0050	0.0021	mg/Kg			07/31/17 08:52	1
cis-1,2-Dichloroethene	ND		0.0050	0.0016	mg/Kg			07/31/17 08:52	1
1,2-Dichlorobenzene	ND		0.0050	0.0040	mg/Kg			07/31/17 08:52	1
1,3-Dichlorobenzene	ND		0.0050	0.0016	mg/Kg			07/31/17 08:52	1
1,4-Dichlorobenzene	ND		0.0050	0.0010	mg/Kg			07/31/17 08:52	1
1,1-Dichloroethane	ND		0.0050	0.0018	mg/Kg			07/31/17 08:52	1
1,2-Dichloroethane	ND		0.0050	0.0015	mg/Kg			07/31/17 08:52	1
1,1-Dichloroethene	ND		0.0050	0.0029	mg/Kg			07/31/17 08:52	1
Ethylbenzene	ND		0.0050	0.0022	mg/Kg			07/31/17 08:52	1
Methylene Chloride	ND		0.0050	0.0024	mg/Kg			07/31/17 08:52	1
Methyl tert-butyl ether	ND		0.0050	0.0037	mg/Kg			07/31/17 08:52	1
n-Butylbenzene	ND		0.0050	0.0038	mg/Kg			07/31/17 08:52	1
N-Propylbenzene	ND		0.0050	0.0021	mg/Kg			07/31/17 08:52	1
sec-Butylbenzene	ND		0.0050	0.0024	mg/Kg			07/31/17 08:52	1
tert-Butylbenzene	ND		0.0050	0.0018	mg/Kg			07/31/17 08:52	1
Tetrachloroethene	ND		0.0050	0.0020	mg/Kg			07/31/17 08:52	1
Toluene	ND		0.0050	0.0017	mg/Kg			07/31/17 08:52	1
trans-1,2-Dichloroethene	ND		0.0050	0.0025	mg/Kg			07/31/17 08:52	1
1,1,1-Trichloroethane	ND		0.0050	0.0025	mg/Kg			07/31/17 08:52	1
Trichloroethene	ND		0.0050	0.0015	mg/Kg			07/31/17 08:52	1
1,2,4-Trimethylbenzene	ND		0.0050	0.0013	mg/Kg			07/31/17 08:52	1
1,3,5-Trimethylbenzene	ND		0.0050	0.0017	mg/Kg			07/31/17 08:52	1
Vinyl chloride	ND		0.0050	0.0037	mg/Kg			07/31/17 08:52	1
Xylenes, Total	ND		0.010	0.0043	mg/Kg			07/31/17 08:52	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*63 - 120*		*07/31/17 08:52*	*1*

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 180-218566/9
Matrix: Solid
Analysis Batch: 218566

Client Sample ID: Method Blank
Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	101		68 - 121		07/31/17 08:52	1
1,2-Dichloroethane-d4 (Surr)	120		52 - 124		07/31/17 08:52	1
Toluene-d8 (Surr)	103		72 - 127		07/31/17 08:52	1

Lab Sample ID: LCS 180-218566/4
Matrix: Solid
Analysis Batch: 218566

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0400	0.0440		mg/Kg		110	20 - 150
Benzene	0.0400	0.0433		mg/Kg		108	77 - 120
2-Butanone (MEK)	0.0400	0.0416		mg/Kg		104	35 - 149
Carbon tetrachloride	0.0400	0.0488		mg/Kg		122	69 - 122
Chlorobenzene	0.0400	0.0437		mg/Kg		109	79 - 120
Chloroform	0.0400	0.0467		mg/Kg		117	72 - 120
cis-1,2-Dichloroethene	0.0400	0.0437		mg/Kg		109	80 - 118
1,2-Dichlorobenzene	0.0400	0.0429		mg/Kg		107	71 - 124
1,3-Dichlorobenzene	0.0400	0.0431		mg/Kg		108	75 - 118
1,4-Dichlorobenzene	0.0400	0.0434		mg/Kg		108	77 - 116
1,1-Dichloroethane	0.0400	0.0462		mg/Kg		115	66 - 124
1,2-Dichloroethane	0.0400	0.0513	*	mg/Kg		128	61 - 127
1,1-Dichloroethene	0.0400	0.0421		mg/Kg		105	59 - 129
Ethylbenzene	0.0400	0.0438		mg/Kg		110	78 - 125
Methylene Chloride	0.0400	0.0426		mg/Kg		107	58 - 127
Methyl tert-butyl ether	0.0400	0.0466		mg/Kg		117	48 - 132
n-Butylbenzene	0.0400	0.0502		mg/Kg		125	59 - 145
N-Propylbenzene	0.0400	0.0458		mg/Kg		115	80 - 120
sec-Butylbenzene	0.0400	0.0477		mg/Kg		119	70 - 130
tert-Butylbenzene	0.0400	0.0476		mg/Kg		119	74 - 133
Tetrachloroethene	0.0400	0.0406		mg/Kg		101	78 - 129
Toluene	0.0400	0.0436		mg/Kg		109	78 - 124
trans-1,2-Dichloroethene	0.0400	0.0439		mg/Kg		110	77 - 121
1,1,1-Trichloroethane	0.0400	0.0497		mg/Kg		124	67 - 126
Trichloroethene	0.0400	0.0420		mg/Kg		105	76 - 119
1,2,4-Trimethylbenzene	0.0400	0.0468		mg/Kg		117	80 - 121
1,3,5-Trimethylbenzene	0.0400	0.0467		mg/Kg		117	68 - 133
Vinyl chloride	0.0400	0.0336		mg/Kg		84	63 - 124
Xylenes, Total	0.0800	0.0871		mg/Kg		109	83 - 126

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		63 - 120
Dibromofluoromethane (Surr)	108		68 - 121
1,2-Dichloroethane-d4 (Surr)	119		52 - 124
Toluene-d8 (Surr)	106		72 - 127

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Lab Sample ID: MB 180-218811/1-A
Matrix: Solid
Analysis Batch: 218855

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 218811

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0067	0.0022	mg/Kg		08/02/17 03:48	08/02/17 12:33	1
Acenaphthylene	ND		0.0067	0.0023	mg/Kg		08/02/17 03:48	08/02/17 12:33	1
Anthracene	ND		0.0067	0.0025	mg/Kg		08/02/17 03:48	08/02/17 12:33	1
Benzo[a]anthracene	ND		0.0067	0.0026	mg/Kg		08/02/17 03:48	08/02/17 12:33	1
Benzo[a]pyrene	ND		0.0067	0.0028	mg/Kg		08/02/17 03:48	08/02/17 12:33	1
Benzo[b]fluoranthene	ND		0.0067	0.0029	mg/Kg		08/02/17 03:48	08/02/17 12:33	1
Benzo[g,h,i]perylene	ND		0.0067	0.0029	mg/Kg		08/02/17 03:48	08/02/17 12:33	1
Benzo[k]fluoranthene	ND		0.0067	0.0023	mg/Kg		08/02/17 03:48	08/02/17 12:33	1
Chrysene	ND		0.0067	0.0026	mg/Kg		08/02/17 03:48	08/02/17 12:33	1
Dibenz(a,h)anthracene	ND		0.0067	0.0028	mg/Kg		08/02/17 03:48	08/02/17 12:33	1
Dibenzofuran	ND		0.033	0.0027	mg/Kg		08/02/17 03:48	08/02/17 12:33	1
1,4-Dioxane	ND		0.067	0.0050	mg/Kg		08/02/17 03:48	08/02/17 12:33	1
Fluoranthene	ND		0.0067	0.0026	mg/Kg		08/02/17 03:48	08/02/17 12:33	1
Fluorene	ND		0.0067	0.0024	mg/Kg		08/02/17 03:48	08/02/17 12:33	1
Hexachlorobenzene	ND		0.0067	0.0027	mg/Kg		08/02/17 03:48	08/02/17 12:33	1
Indeno[1,2,3-cd]pyrene	ND		0.0067	0.0026	mg/Kg		08/02/17 03:48	08/02/17 12:33	1
2-Methylphenol	ND		0.033	0.0029	mg/Kg		08/02/17 03:48	08/02/17 12:33	1
Methylphenol, 3 & 4	ND		0.033	0.0030	mg/Kg		08/02/17 03:48	08/02/17 12:33	1
Naphthalene	ND		0.0067	0.0024	mg/Kg		08/02/17 03:48	08/02/17 12:33	1
Pentachlorophenol	ND		0.17	0.063	mg/Kg		08/02/17 03:48	08/02/17 12:33	1
Phenanthrene	ND		0.0067	0.0028	mg/Kg		08/02/17 03:48	08/02/17 12:33	1
Phenol	ND		0.033	0.0045	mg/Kg		08/02/17 03:48	08/02/17 12:33	1
Pyrene	ND		0.0067	0.0030	mg/Kg		08/02/17 03:48	08/02/17 12:33	1
Hexachloroethane	ND		33	2.4	ug/Kg		08/02/17 03:48	08/02/17 12:33	1
Nitrobenzene	ND		67	2.5	ug/Kg		08/02/17 03:48	08/02/17 12:33	1
Hexachlorobutadiene	ND		6.7	2.1	ug/Kg		08/02/17 03:48	08/02/17 12:33	1
2,4,5-Trichlorophenol	ND		33	3.2	ug/Kg		08/02/17 03:48	08/02/17 12:33	1
2,4,6-Trichlorophenol	ND		33	2.9	ug/Kg		08/02/17 03:48	08/02/17 12:33	1
2,4-Dinitrotoluene	ND		33	4.4	ug/Kg		08/02/17 03:48	08/02/17 12:33	1
Pyridine	ND		33	3.2	ug/Kg		08/02/17 03:48	08/02/17 12:33	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*78*		*42 - 100*	*08/02/17 03:48*	*08/02/17 12:33*	*1*
2-Fluorophenol (Surr)	*75*		*21 - 107*	*08/02/17 03:48*	*08/02/17 12:33*	*1*
Nitrobenzene-d5 (Surr)	*78*		*35 - 109*	*08/02/17 03:48*	*08/02/17 12:33*	*1*
Phenol-d5 (Surr)	*68*		*29 - 105*	*08/02/17 03:48*	*08/02/17 12:33*	*1*
Terphenyl-d14 (Surr)	*77*		*36 - 113*	*08/02/17 03:48*	*08/02/17 12:33*	*1*
2,4,6-Tribromophenol (Surr)	*86*		*20 - 134*	*08/02/17 03:48*	*08/02/17 12:33*	*1*

Lab Sample ID: LCS 180-218811/2-A
Matrix: Solid
Analysis Batch: 218855

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 218811

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	0.667	0.534		mg/Kg		80	39 - 100
Acenaphthylene	0.667	0.481		mg/Kg		72	42 - 100
Anthracene	0.667	0.491		mg/Kg		74	43 - 100
Benzo[a]anthracene	0.667	0.536		mg/Kg		80	43 - 100

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCS 180-218811/2-A
Matrix: Solid
Analysis Batch: 218855

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 218811

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzo[a]pyrene	0.667	0.492		mg/Kg		74	43 - 100
Benzo[b]fluoranthene	0.667	0.526		mg/Kg		79	40 - 100
Benzo[g,h,i]perylene	0.667	0.390		mg/Kg		59	41 - 102
Benzo[k]fluoranthene	0.667	0.497		mg/Kg		75	44 - 100
Chrysene	0.667	0.463		mg/Kg		69	44 - 100
Dibenz(a,h)anthracene	0.667	0.421		mg/Kg		63	40 - 104
Dibenzofuran	0.667	0.492		mg/Kg		74	42 - 100
1,4-Dioxane	0.667	0.581		mg/Kg		87	19 - 107
Fluoranthene	0.667	0.520		mg/Kg		78	41 - 104
Fluorene	0.667	0.550		mg/Kg		82	41 - 100
Hexachlorobenzene	0.667	0.530		mg/Kg		80	43 - 100
Indeno[1,2,3-cd]pyrene	0.667	0.431		mg/Kg		65	41 - 104
2-Methylphenol	0.667	0.481		mg/Kg		72	38 - 100
Methylphenol, 3 & 4	0.667	0.475		mg/Kg		71	40 - 100
Naphthalene	0.667	0.467		mg/Kg		70	38 - 100
Pentachlorophenol	1.33	1.16		mg/Kg		87	34 - 102
Phenanthrene	0.667	0.489		mg/Kg		73	41 - 100
Phenol	0.667	0.460		mg/Kg		69	36 - 100
Pyrene	0.667	0.485		mg/Kg		73	42 - 100
Hexachloroethane	667	448		ug/Kg		67	35 - 100
Nitrobenzene	667	479		ug/Kg		72	34 - 100
Hexachlorobutadiene	667	576		ug/Kg		86	35 - 100
2,4,5-Trichlorophenol	667	558		ug/Kg		84	42 - 100
2,4,6-Trichlorophenol	667	560		ug/Kg		84	41 - 103
2,4-Dinitrotoluene	667	560		ug/Kg		84	42 - 110
Pyridine	1330	1290		ug/Kg		97	25 - 119

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*63*		*42 - 100*
2-Fluorophenol (Surr)	*63*		*21 - 107*
Nitrobenzene-d5 (Surr)	*63*		*35 - 109*
Phenol-d5 (Surr)	*59*		*29 - 105*
Terphenyl-d14 (Surr)	*65*		*36 - 113*
2,4,6-Tribromophenol (Surr)	*72*		*20 - 134*

Lab Sample ID: 180-68716-3 MS
Matrix: Solid
Analysis Batch: 218855

Client Sample ID: WB3-4, S1, C 072817
Prep Type: Total/NA
Prep Batch: 218811

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	0.15		0.729	0.540		mg/Kg	☼	54	39 - 100
Acenaphthylene	0.82	F1	0.729	0.551	F1	mg/Kg	☼	-37	42 - 100
Anthracene	2.6	F1	0.729	0.595	F1	mg/Kg	☼	-282	43 - 100
Benzo[a]anthracene	4.9		0.729	0.935	4	mg/Kg	☼	-550	43 - 100
Benzo[a]pyrene	3.6		0.729	0.791	4	mg/Kg	☼	-382	43 - 100
Benzo[b]fluoranthene	4.8		0.729	0.867	4	mg/Kg	☼	-545	40 - 100
Benzo[g,h,i]perylene	2.9		0.729	0.699	4	mg/Kg	☼	-307	41 - 102
Benzo[k]fluoranthene	1.5	F1	0.729	0.664	F1	mg/Kg	☼	-115	44 - 100

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: 180-68716-3 MS
Matrix: Solid
Analysis Batch: 218855

Client Sample ID: WB3-4, S1, C 072817
Prep Type: Total/NA
Prep Batch: 218811

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chrysene	3.7		0.729	0.750	4	mg/Kg	☼	-410	44 - 100
Dibenz(a,h)anthracene	0.61	F1	0.729	0.551	F1	mg/Kg	☼	-8	40 - 104
Dibenzofuran	0.54	F1	0.729	0.542	F1	mg/Kg	☼	0.02	42 - 100
1,4-Dioxane	ND		0.729	0.625		mg/Kg	☼	86	19 - 107
Fluoranthene	8.5	E	0.729	0.980	4	mg/Kg	☼	-1034	41 - 104
Fluorene	0.40	F1	0.729	0.547	F1	mg/Kg	☼	20	41 - 100
Hexachlorobenzene	ND		0.729	0.603		mg/Kg	☼	83	43 - 100
Indeno[1,2,3-cd]pyrene	2.6	F1	0.729	0.685	F1	mg/Kg	☼	-263	41 - 104
2-Methylphenol	ND		0.729	0.462		mg/Kg	☼	63	38 - 100
Methylphenol, 3 & 4	0.025	J	0.729	0.480		mg/Kg	☼	62	40 - 100
Naphthalene	0.73	F1	0.729	0.578	F1	mg/Kg	☼	-21	38 - 100
Pentachlorophenol	ND		1.46	1.05		mg/Kg	☼	72	34 - 102
Phenanthrene	10	E	0.729	0.816	4	mg/Kg	☼	-1265	41 - 100
Phenol	0.022	J	0.729	0.456		mg/Kg	☼	59	36 - 100
Pyrene	8.7	E	0.729	1.13	4	mg/Kg	☼	-1044	42 - 100
Hexachloroethane	ND		729	487		ug/Kg	☼	67	35 - 100
Nitrobenzene	ND		729	558		ug/Kg	☼	77	34 - 100
Hexachlorobutadiene	ND		729	651		ug/Kg	☼	89	35 - 100
2,4,5-Trichlorophenol	ND		729	560		ug/Kg	☼	77	42 - 100
2,4,6-Trichlorophenol	ND		729	579		ug/Kg	☼	79	41 - 103
2,4-Dinitrotoluene	ND		729	589		ug/Kg	☼	81	42 - 110
Pyridine	ND	F1 F2	1460	199	F1	ug/Kg	☼	14	25 - 119

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl	*60*		*42 - 100*
2-Fluorophenol (Surr)	*57*		*21 - 107*
Nitrobenzene-d5 (Surr)	*64*		*35 - 109*
Phenol-d5 (Surr)	*54*		*29 - 105*
Terphenyl-d14 (Surr)	*63*		*36 - 113*
2,4,6-Tribromophenol (Surr)	*76*		*20 - 134*

Lab Sample ID: 180-68716-3 MSD
Matrix: Solid
Analysis Batch: 218855

Client Sample ID: WB3-4, S1, C 072817
Prep Type: Total/NA
Prep Batch: 218811

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	0.15		0.724	0.514		mg/Kg	☼	50	39 - 100	5	20
Acenaphthylene	0.82	F1	0.724	0.534	F1	mg/Kg	☼	-40	42 - 100	3	20
Anthracene	2.6	F1	0.724	0.574	F1	mg/Kg	☼	-286	43 - 100	4	20
Benzo[a]anthracene	4.9		0.724	0.848	4	mg/Kg	☼	-566	43 - 100	10	20
Benzo[a]pyrene	3.6		0.724	0.798	4	mg/Kg	☼	-384	43 - 100	1	20
Benzo[b]fluoranthene	4.8		0.724	0.917	4	mg/Kg	☼	-542	40 - 100	6	20
Benzo[g,h,i]perylene	2.9		0.724	0.726	4	mg/Kg	☼	-306	41 - 102	4	20
Benzo[k]fluoranthene	1.5	F1	0.724	0.680	F1	mg/Kg	☼	-113	44 - 100	2	20
Chrysene	3.7		0.724	0.671	4	mg/Kg	☼	-424	44 - 100	11	20
Dibenz(a,h)anthracene	0.61	F1	0.724	0.547	F1	mg/Kg	☼	-8	40 - 104	1	26
Dibenzofuran	0.54	F1	0.724	0.529	F1	mg/Kg	☼	-2	42 - 100	2	23
1,4-Dioxane	ND		0.724	0.625		mg/Kg	☼	86	19 - 107	0	20

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: 180-68716-3 MSD
Matrix: Solid
Analysis Batch: 218855

Client Sample ID: WB3-4, S1, C 072817
Prep Type: Total/NA
Prep Batch: 218811

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoranthene	8.5	E	0.724	1.05	4	mg/Kg	☼	-1031	41 - 104	7	20
Fluorene	0.40	F1	0.724	0.550	F1	mg/Kg	☼	20	41 - 100	1	21
Hexachlorobenzene	ND		0.724	0.617		mg/Kg	☼	85	43 - 100	2	21
Indeno[1,2,3-cd]pyrene	2.6	F1	0.724	0.709	F1	mg/Kg	☼	-261	41 - 104	3	25
2-Methylphenol	ND		0.724	0.467		mg/Kg	☼	64	38 - 100	1	20
Methylphenol, 3 & 4	0.025	J	0.724	0.511		mg/Kg	☼	67	40 - 100	6	20
Naphthalene	0.73	F1	0.724	0.573	F1	mg/Kg	☼	-21	38 - 100	1	20
Pentachlorophenol	ND		1.45	1.03		mg/Kg	☼	71	34 - 102	3	20
Phenanthrene	10	E	0.724	0.813	4	mg/Kg	☼	-1274	41 - 100	0	20
Phenol	0.022	J	0.724	0.455		mg/Kg	☼	60	36 - 100	0	20
Pyrene	8.7	E	0.724	1.05	4	mg/Kg	☼	-1062	42 - 100	7	21
Hexachloroethane	ND		724	497		ug/Kg	☼	69	35 - 100	2	20
Nitrobenzene	ND		724	549		ug/Kg	☼	76	34 - 100	2	20
Hexachlorobutadiene	ND		724	650		ug/Kg	☼	90	35 - 100	0	20
2,4,5-Trichlorophenol	ND		724	578		ug/Kg	☼	80	42 - 100	3	22
2,4,6-Trichlorophenol	ND		724	564		ug/Kg	☼	78	41 - 103	3	25
2,4-Dinitrotoluene	ND		724	585		ug/Kg	☼	81	42 - 110	1	21
Pyridine	ND	F1 F2	1450	361	F2	ug/Kg	☼	25	25 - 119	58	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl	*65*		*42 - 100*
2-Fluorophenol (Surr)	*63*		*21 - 107*
Nitrobenzene-d5 (Surr)	*71*		*35 - 109*
Phenol-d5 (Surr)	*58*		*29 - 105*
Terphenyl-d14 (Surr)	*60*		*36 - 113*
2,4,6-Tribromophenol (Surr)	*75*		*20 - 134*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 180-218813/1-A
Matrix: Solid
Analysis Batch: 218956

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 218813

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.017	0.0088	mg/Kg		08/02/17 03:57	08/03/17 11:18	1
PCB-1221	ND		0.017	0.0086	mg/Kg		08/02/17 03:57	08/03/17 11:18	1
PCB-1232	ND		0.017	0.0066	mg/Kg		08/02/17 03:57	08/03/17 11:18	1
PCB-1242	ND		0.017	0.013	mg/Kg		08/02/17 03:57	08/03/17 11:18	1
PCB-1248	ND		0.017	0.0080	mg/Kg		08/02/17 03:57	08/03/17 11:18	1
PCB-1254	ND		0.017	0.0073	mg/Kg		08/02/17 03:57	08/03/17 11:18	1
PCB-1260	ND		0.017	0.011	mg/Kg		08/02/17 03:57	08/03/17 11:18	1
PCB-1262	ND		0.017	0.012	mg/Kg		08/02/17 03:57	08/03/17 11:18	1
PCB-1268	ND		0.017	0.0051	mg/Kg		08/02/17 03:57	08/03/17 11:18	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*80*		*23 - 150*	*08/02/17 03:57*	*08/03/17 11:18*	*1*
DCB Decachlorobiphenyl (Surr)	*84*		*23 - 150*	*08/02/17 03:57*	*08/03/17 11:18*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: MB 180-218813/1-A
Matrix: Solid
Analysis Batch: 218956

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 218813

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	89		27 - 138	08/02/17 03:57	08/03/17 11:18	1
Tetrachloro-m-xylene (Surr)	99		27 - 138	08/02/17 03:57	08/03/17 11:18	1

Lab Sample ID: LCS 180-218813/2-A
Matrix: Solid
Analysis Batch: 218956

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 218813

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	1.33	1.14		mg/Kg		85	52 - 126
PCB-1260	1.33	1.09		mg/Kg		82	50 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	79		23 - 150
DCB Decachlorobiphenyl (Surr)	86		23 - 150
Tetrachloro-m-xylene (Surr)	90		27 - 138
Tetrachloro-m-xylene (Surr)	95		27 - 138

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 180-218614/1-A
Matrix: Solid
Analysis Batch: 218816

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 218614

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		1.0	0.44	mg/Kg		07/31/17 10:55	08/01/17 09:11	1
Barium	ND		20	5.4	mg/Kg		07/31/17 10:55	08/01/17 09:11	1
Beryllium	ND		0.40	0.10	mg/Kg		07/31/17 10:55	08/01/17 09:11	1
Cadmium	ND		0.50	0.11	mg/Kg		07/31/17 10:55	08/01/17 09:11	1
Chromium	ND		0.50	0.13	mg/Kg		07/31/17 10:55	08/01/17 09:11	1
Copper	ND		2.5	0.77	mg/Kg		07/31/17 10:55	08/01/17 09:11	1
Lead	ND		1.0	0.33	mg/Kg		07/31/17 10:55	08/01/17 09:11	1
Manganese	ND		1.5	0.41	mg/Kg		07/31/17 10:55	08/01/17 09:11	1
Nickel	ND		4.0	0.90	mg/Kg		07/31/17 10:55	08/01/17 09:11	1
Selenium	ND	^	1.0	0.40	mg/Kg		07/31/17 10:55	08/01/17 09:11	1
Silver	ND		0.50	0.17	mg/Kg		07/31/17 10:55	08/01/17 09:11	1
Zinc	ND		2.0	1.0	mg/Kg		07/31/17 10:55	08/01/17 09:11	1

Lab Sample ID: LCS 180-218614/2-A
Matrix: Solid
Analysis Batch: 218816

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 218614

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	50.0	50.6		mg/Kg		101	80 - 120
Barium	200	204		mg/Kg		102	80 - 120
Beryllium	5.00	5.12		mg/Kg		102	80 - 120
Cadmium	5.00	5.08		mg/Kg		102	80 - 120
Chromium	20.0	19.3		mg/Kg		97	80 - 120
Copper	25.0	25.2		mg/Kg		101	80 - 120

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCS 180-218614/2-A
Matrix: Solid
Analysis Batch: 218816

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 218614

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	50.0	48.7		mg/Kg		97	80 - 120
Manganese	50.0	49.5		mg/Kg		99	80 - 120
Nickel	50.0	51.2		mg/Kg		102	80 - 120
Selenium	50.0	52.3	^	mg/Kg		105	80 - 120
Silver	5.00	4.98		mg/Kg		100	80 - 120
Zinc	50.0	48.8		mg/Kg		98	80 - 120

Lab Sample ID: 180-68716-3 MS
Matrix: Solid
Analysis Batch: 218816

Client Sample ID: WB3-4, S1, C 072817
Prep Type: Total/NA
Prep Batch: 218614

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	7.8		57.1	56.7		mg/Kg	☼	86	75 - 125
Barium	71		229	282		mg/Kg	☼	92	75 - 125
Beryllium	0.33	J	5.71	5.20		mg/Kg	☼	85	75 - 125
Cadmium	0.14	J	5.71	5.10		mg/Kg	☼	87	75 - 125
Chromium	10		22.9	30.7		mg/Kg	☼	89	75 - 125
Copper	56	F1	28.6	88.2		mg/Kg	☼	112	75 - 125
Lead	55	F1	57.1	112		mg/Kg	☼	99	75 - 125
Manganese	390		57.1	451	4	mg/Kg	☼	114	75 - 125
Nickel	26		57.1	89.0		mg/Kg	☼	110	75 - 125
Selenium	0.51	J ^	57.1	49.2	^	mg/Kg	☼	85	75 - 125
Silver	ND		5.71	4.95		mg/Kg	☼	87	75 - 125
Zinc	65		57.1	123		mg/Kg	☼	101	75 - 125

Lab Sample ID: 180-68716-3 MSD
Matrix: Solid
Analysis Batch: 218816

Client Sample ID: WB3-4, S1, C 072817
Prep Type: Total/NA
Prep Batch: 218614

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	7.8		56.5	54.5		mg/Kg	☼	83	75 - 125	4	20
Barium	71		226	262		mg/Kg	☼	84	75 - 125	8	20
Beryllium	0.33	J	5.65	5.07		mg/Kg	☼	84	75 - 125	3	20
Cadmium	0.14	J	5.65	4.96		mg/Kg	☼	85	75 - 125	3	20
Chromium	10		22.6	28.6		mg/Kg	☼	81	75 - 125	7	20
Copper	56	F1	28.3	73.3	F1	mg/Kg	☼	60	75 - 125	18	20
Lead	55	F1	56.5	131	F1	mg/Kg	☼	135	75 - 125	16	20
Manganese	390		56.5	434	4	mg/Kg	☼	85	75 - 125	4	20
Nickel	26		56.5	77.5		mg/Kg	☼	91	75 - 125	14	20
Selenium	0.51	J ^	56.5	48.6	^	mg/Kg	☼	85	75 - 125	1	20
Silver	ND		5.65	4.83		mg/Kg	☼	85	75 - 125	2	20
Zinc	65		56.5	110		mg/Kg	☼	79	75 - 125	11	20

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 180-218684/1-A
Matrix: Solid
Analysis Batch: 218849

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 218684

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.033	0.0074	mg/Kg		08/01/17 06:50	08/02/17 06:50	1

Lab Sample ID: LCS 180-218684/2-A
Matrix: Solid
Analysis Batch: 218849

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 218684

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.417	0.501		mg/Kg		120	80 - 120

Lab Sample ID: 180-68716-3 MS
Matrix: Solid
Analysis Batch: 218849

Client Sample ID: WB3-4, S1, C 072817
Prep Type: Total/NA
Prep Batch: 218684

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.037	J F1	0.194	0.277	F1	mg/Kg	☼	123	80 - 120

Lab Sample ID: 180-68716-3 MSD
Matrix: Solid
Analysis Batch: 218849

Client Sample ID: WB3-4, S1, C 072817
Prep Type: Total/NA
Prep Batch: 218684

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.037	J F1	0.194	0.285	F1	mg/Kg	☼	127	80 - 120	3	20

Method: 2540G - SM 2540G

Lab Sample ID: 180-68716-11 DU
Matrix: Solid
Analysis Batch: 218618

Client Sample ID: DUPE 18
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	9.5		10.4		%		8	20
Percent Solids	90.5		89.6		%		0.9	20

Lab Sample ID: 180-68716-3 DU
Matrix: Solid
Analysis Batch: 218626

Client Sample ID: WB3-4, S1, C 072817
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	9.8		10.2		%		4	20
Percent Solids	90.2		89.8		%		0.5	20

Lab Sample ID: 180-68716-9 DU
Matrix: Solid
Analysis Batch: 218626

Client Sample ID: WB3-4, S3, C 072817
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	11.2		11.6		%		4	20
Percent Solids	88.8		88.4		%		0.5	20

Method: 9014 - Cyanide

Lab Sample ID: MB 180-218907/4-A
Matrix: Solid
Analysis Batch: 219021

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 218907

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.50	0.15	mg/Kg		08/02/17 13:35	08/03/17 11:09	1

Lab Sample ID: HLCS 180-218907/2-A
Matrix: Solid
Analysis Batch: 219021

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 218907

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.250	0.255		mg/Kg		102	90 - 110

Lab Sample ID: LCS 180-218907/3-A
Matrix: Solid
Analysis Batch: 219021

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 218907

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	164	119		mg/Kg		73	38 - 162

Lab Sample ID: LLCS 180-218907/1-A
Matrix: Solid
Analysis Batch: 219021

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 218907

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.0500	0.0501		mg/Kg		100	90 - 110

GC/MS VOA

Analysis Batch: 218535

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68716-1	WB3-4, S1, A 072817	Total/NA	Solid	8260C	218540
180-68716-2	WB3-4, S1, B 072817	Total/NA	Solid	8260C	218540
MB 180-218535/8	Method Blank	Total/NA	Solid	8260C	
LCS 180-218535/3	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 180-218535/4	Lab Control Sample Dup	Total/NA	Solid	8260C	

Prep Batch: 218540

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68716-1	WB3-4, S1, A 072817	Total/NA	Solid	5035	
180-68716-2	WB3-4, S1, B 072817	Total/NA	Solid	5035	

Analysis Batch: 218552

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68716-12	TRIP BLANK #1	Total/NA	Water	8260C	
MB 180-218552/5	Method Blank	Total/NA	Water	8260C	
LCS 180-218552/3	Lab Control Sample	Total/NA	Water	8260C	

Analysis Batch: 218566

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68716-4	WB3-4, S2, A 072817	Total/NA	Solid	8260C	218570
180-68716-5	WB3-4, S2, B 072817	Total/NA	Solid	8260C	218570
180-68716-7	WB3-4, S3, A 072817	Total/NA	Solid	8260C	218570
180-68716-8	WB3-4, S3, B 072817	Total/NA	Solid	8260C	218570
180-68716-10	DUPE 19	Total/NA	Solid	8260C	218570
MB 180-218566/9	Method Blank	Total/NA	Solid	8260C	
LCS 180-218566/4	Lab Control Sample	Total/NA	Solid	8260C	

Prep Batch: 218570

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68716-4	WB3-4, S2, A 072817	Total/NA	Solid	5035	
180-68716-5	WB3-4, S2, B 072817	Total/NA	Solid	5035	
180-68716-7	WB3-4, S3, A 072817	Total/NA	Solid	5035	
180-68716-8	WB3-4, S3, B 072817	Total/NA	Solid	5035	
180-68716-10	DUPE 19	Total/NA	Solid	5035	

GC/MS Semi VOA

Prep Batch: 218811

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68716-3 - DL	WB3-4, S1, C 072817	Total/NA	Solid	3541	
180-68716-3	WB3-4, S1, C 072817	Total/NA	Solid	3541	
180-68716-6	WB3-4, S2, C 072817	Total/NA	Solid	3541	
180-68716-9	WB3-4, S3, C 072817	Total/NA	Solid	3541	
180-68716-11	DUPE 18	Total/NA	Solid	3541	
MB 180-218811/1-A	Method Blank	Total/NA	Solid	3541	
LCS 180-218811/2-A	Lab Control Sample	Total/NA	Solid	3541	
180-68716-3 MS	WB3-4, S1, C 072817	Total/NA	Solid	3541	
180-68716-3 MSD	WB3-4, S1, C 072817	Total/NA	Solid	3541	

GC/MS Semi VOA (Continued)

Analysis Batch: 218855

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68716-3	WB3-4, S1, C 072817	Total/NA	Solid	8270D LL	218811
180-68716-6	WB3-4, S2, C 072817	Total/NA	Solid	8270D LL	218811
180-68716-9	WB3-4, S3, C 072817	Total/NA	Solid	8270D LL	218811
180-68716-11	DUPE 18	Total/NA	Solid	8270D LL	218811
MB 180-218811/1-A	Method Blank	Total/NA	Solid	8270D LL	218811
LCS 180-218811/2-A	Lab Control Sample	Total/NA	Solid	8270D LL	218811
180-68716-3 MS	WB3-4, S1, C 072817	Total/NA	Solid	8270D LL	218811
180-68716-3 MSD	WB3-4, S1, C 072817	Total/NA	Solid	8270D LL	218811

Analysis Batch: 219005

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68716-3 - DL	WB3-4, S1, C 072817	Total/NA	Solid	8270D LL	218811

GC Semi VOA

Prep Batch: 218813

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68716-3	WB3-4, S1, C 072817	Total/NA	Solid	3541	
180-68716-6	WB3-4, S2, C 072817	Total/NA	Solid	3541	
180-68716-9	WB3-4, S3, C 072817	Total/NA	Solid	3541	
180-68716-11	DUPE 18	Total/NA	Solid	3541	
MB 180-218813/1-A	Method Blank	Total/NA	Solid	3541	
LCS 180-218813/2-A	Lab Control Sample	Total/NA	Solid	3541	

Cleanup Batch: 218880

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68716-3	WB3-4, S1, C 072817	Total/NA	Solid	3665A	218813
180-68716-6	WB3-4, S2, C 072817	Total/NA	Solid	3665A	218813
180-68716-9	WB3-4, S3, C 072817	Total/NA	Solid	3665A	218813
180-68716-11	DUPE 18	Total/NA	Solid	3665A	218813

Cleanup Batch: 218881

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68716-3	WB3-4, S1, C 072817	Total/NA	Solid	3660B	218880
180-68716-6	WB3-4, S2, C 072817	Total/NA	Solid	3660B	218880
180-68716-9	WB3-4, S3, C 072817	Total/NA	Solid	3660B	218880
180-68716-11	DUPE 18	Total/NA	Solid	3660B	218880

Analysis Batch: 218956

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68716-3	WB3-4, S1, C 072817	Total/NA	Solid	8082A	218881
180-68716-6	WB3-4, S2, C 072817	Total/NA	Solid	8082A	218881
180-68716-9	WB3-4, S3, C 072817	Total/NA	Solid	8082A	218881
180-68716-11	DUPE 18	Total/NA	Solid	8082A	218881
MB 180-218813/1-A	Method Blank	Total/NA	Solid	8082A	218813
LCS 180-218813/2-A	Lab Control Sample	Total/NA	Solid	8082A	218813

Metals

Prep Batch: 218614

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68716-3	WB3-4, S1, C 072817	Total/NA	Solid	3050B	
180-68716-6	WB3-4, S2, C 072817	Total/NA	Solid	3050B	
180-68716-9	WB3-4, S3, C 072817	Total/NA	Solid	3050B	
180-68716-11	DUPE 18	Total/NA	Solid	3050B	
MB 180-218614/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 180-218614/2-A	Lab Control Sample	Total/NA	Solid	3050B	
180-68716-3 MS	WB3-4, S1, C 072817	Total/NA	Solid	3050B	
180-68716-3 MSD	WB3-4, S1, C 072817	Total/NA	Solid	3050B	

Prep Batch: 218684

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68716-3	WB3-4, S1, C 072817	Total/NA	Solid	7471B	
180-68716-6	WB3-4, S2, C 072817	Total/NA	Solid	7471B	
180-68716-9	WB3-4, S3, C 072817	Total/NA	Solid	7471B	
180-68716-11	DUPE 18	Total/NA	Solid	7471B	
MB 180-218684/1-A	Method Blank	Total/NA	Solid	7471B	
LCS 180-218684/2-A	Lab Control Sample	Total/NA	Solid	7471B	
180-68716-3 MS	WB3-4, S1, C 072817	Total/NA	Solid	7471B	
180-68716-3 MSD	WB3-4, S1, C 072817	Total/NA	Solid	7471B	

Analysis Batch: 218816

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68716-3	WB3-4, S1, C 072817	Total/NA	Solid	6010C	218614
180-68716-6	WB3-4, S2, C 072817	Total/NA	Solid	6010C	218614
180-68716-9	WB3-4, S3, C 072817	Total/NA	Solid	6010C	218614
180-68716-11	DUPE 18	Total/NA	Solid	6010C	218614
MB 180-218614/1-A	Method Blank	Total/NA	Solid	6010C	218614
LCS 180-218614/2-A	Lab Control Sample	Total/NA	Solid	6010C	218614
180-68716-3 MS	WB3-4, S1, C 072817	Total/NA	Solid	6010C	218614
180-68716-3 MSD	WB3-4, S1, C 072817	Total/NA	Solid	6010C	218614

Analysis Batch: 218849

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68716-3	WB3-4, S1, C 072817	Total/NA	Solid	7471B	218684
180-68716-6	WB3-4, S2, C 072817	Total/NA	Solid	7471B	218684
180-68716-9	WB3-4, S3, C 072817	Total/NA	Solid	7471B	218684
180-68716-11	DUPE 18	Total/NA	Solid	7471B	218684
MB 180-218684/1-A	Method Blank	Total/NA	Solid	7471B	218684
LCS 180-218684/2-A	Lab Control Sample	Total/NA	Solid	7471B	218684
180-68716-3 MS	WB3-4, S1, C 072817	Total/NA	Solid	7471B	218684
180-68716-3 MSD	WB3-4, S1, C 072817	Total/NA	Solid	7471B	218684

General Chemistry

Analysis Batch: 218618

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68716-10	DUPE 19	Total/NA	Solid	2540G	
180-68716-11	DUPE 18	Total/NA	Solid	2540G	
180-68716-11 DU	DUPE 18	Total/NA	Solid	2540G	

General Chemistry (Continued)

Analysis Batch: 218626

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68716-1	WB3-4, S1, A 072817	Total/NA	Solid	2540G	
180-68716-2	WB3-4, S1, B 072817	Total/NA	Solid	2540G	
180-68716-3	WB3-4, S1, C 072817	Total/NA	Solid	2540G	
180-68716-4	WB3-4, S2, A 072817	Total/NA	Solid	2540G	
180-68716-5	WB3-4, S2, B 072817	Total/NA	Solid	2540G	
180-68716-6	WB3-4, S2, C 072817	Total/NA	Solid	2540G	
180-68716-7	WB3-4, S3, A 072817	Total/NA	Solid	2540G	
180-68716-8	WB3-4, S3, B 072817	Total/NA	Solid	2540G	
180-68716-9	WB3-4, S3, C 072817	Total/NA	Solid	2540G	
180-68716-3 DU	WB3-4, S1, C 072817	Total/NA	Solid	2540G	
180-68716-9 DU	WB3-4, S3, C 072817	Total/NA	Solid	2540G	

Prep Batch: 218907

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68716-3	WB3-4, S1, C 072817	Total/NA	Solid	9010C	
180-68716-6	WB3-4, S2, C 072817	Total/NA	Solid	9010C	
180-68716-9	WB3-4, S3, C 072817	Total/NA	Solid	9010C	
180-68716-11	DUPE 18	Total/NA	Solid	9010C	
MB 180-218907/4-A	Method Blank	Total/NA	Solid	9010C	
HLCS 180-218907/2-A	Lab Control Sample	Total/NA	Solid	9010C	
LCS 180-218907/3-A	Lab Control Sample	Total/NA	Solid	9010C	
LLCS 180-218907/1-A	Lab Control Sample	Total/NA	Solid	9010C	

Analysis Batch: 219021

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68716-3	WB3-4, S1, C 072817	Total/NA	Solid	9014	218907
180-68716-6	WB3-4, S2, C 072817	Total/NA	Solid	9014	218907
180-68716-9	WB3-4, S3, C 072817	Total/NA	Solid	9014	218907
180-68716-11	DUPE 18	Total/NA	Solid	9014	218907
MB 180-218907/4-A	Method Blank	Total/NA	Solid	9014	218907
HLCS 180-218907/2-A	Lab Control Sample	Total/NA	Solid	9014	218907
LCS 180-218907/3-A	Lab Control Sample	Total/NA	Solid	9014	218907
LLCS 180-218907/1-A	Lab Control Sample	Total/NA	Solid	9014	218907

TestAmerica Pittsburgh
301 Alpha Drive RIDC Park
Pittsburgh, PA 15238
Phone (412) 963-7058 Fax (412) 963-2468

Chain of Custody Record

180-68716 Chain of Custody

America
ENVIRONMENTAL TESTING

81.1

Client Information	Sampler: Ellen Buelow	Lab PM: Dunlap, David A	Page 1 of 2
Client Contact: Ashwin Ranna; Aron Krasnopoler	Phone: 412-552-4758	E-Mail: david.dunlap@testamericainc.com	
Company: Geosyntec Consultants, Inc.			Job #:
Address: Penn Center West One, Suite 402 1 Penn Center West Drive	Due Date Requested:		
City: Pittsburgh	TAT Requested (days): 1 Day TAT		
State, Zip: PA, 15276			
Phone:	PO #: MN0832B		
Email: aranna@geosyntec.com; Akrasnopoler@geosyntec.com	WO #:		
Project Name: Former Sperry Remington Site - North IRM	Project #: 18013464		
Site:	SSOW#:		

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - VOA-Select List	6010C, 7471B, 9014 - Select ICP Metals, Mercury, Cyanide	8082A, 8270D, PCBs, Select BNA	8260C - VOA-Select List (Trip Blanks only)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	A		
WB 3-4, S1, A 072817	072817	12:15	G	Solid	N	N	X				4	TRIP BLANK #1
WB 3-4, S1, B 072817	072817	12:25	G	Solid	N	N	X				4	"
WB 3-4, S1, C 072817	072817	12:30	C	Solid	N	N		X	X		2	
WB 3-4, S2, A 072817	072817	14:50	G	Solid			X				4	"
WB 3-4, S2, B 072817	072817	14:55	G	Solid			X				4	"
WB 3-4, S2, C 072817	072817	15:05	C	Solid				X	X		2	
WB 3-4, S3, A 072817	072817	16:00	G	Solid			X				4	"
WB 3-4 S3, B 072817	072817	16:05	G	Solid			X				4	"
WB 3-4 S3, C 072817	072817	16:15	C	Solid				X	X		2	
DUPE 19	072817	—	G	Solid			X				4	"
DUPE 18	072817	—	C	Solid	N	N		X	X		2	

RUSH

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	[signature]	072817 18:30	Geosyntec	[signature]	7-29-17	AA
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 9:00	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

8/7/2017

TestAmerica Pittsburgh
301 Alpha Drive RIDC Park
Pittsburgh, PA 15238
Phone (412) 963-7058 Fax (412) 963-2468

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Ellen Buelow	Lab PM: Dunlap, David A	Carrier Tracking No(s):	COC No: 180-38494-8381.1
Client Contact: Ashwin Ranna; Aron Krasnopoler	Phone: 412-552-4758	E-Mail: david.dunlap@testamericainc.com		Page: Page 2 of 2
Company: Geosyntec Consultants, Inc.				Job #:
Address: Penn Center West One, Suite 402 1 Penn Center West Drive	Due Date Requested:			
City: Pittsburgh	TAT Requested (days): 1 TAT			
State, Zip: PA, 15276				
Phone:	PO #: MN0832B			
Email: aranna@geosyntec.com; Akrasnopoler@geosyntec.com	WO #:			
Project Name: Former Sperry Remington Site - North IRM	Project #: 18013464			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - VOA-Select List	6010C, 7471B, 9014 - Select ICP Metals, Mercury, Cyanide	8082A, 8270D, PCBs, Select BNA	8260C - VOA-Select List (Trip Blanks only)	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X	N	N	N	A	X	
Trip Blank #1	072817	—	—	Solid	N	N				X		TRIP BLANK FOR ALL SAMPLES
				Solid								
				Solid								
				Solid								
				Solid								
				Solid								
				Solid								
				Solid								
				Solid								
				Solid								
				Solid								
				Solid								

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by:	Date/Time: 072817 18:30	Company: Geosyntec	Received by:	Date/Time: 7-29-17 9:00	Company: TAP
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 180-68716-1

Login Number: 68716
List Number: 1
Creator: Watson, Debbie

List Source: TestAmerica Pittsburgh

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	False	trip blank
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

TestAmerica Job ID: 180-68756-1
Client Project/Site: Former Sperry Remington Site - North IRM

For:
Geosyntec Consultants, Inc.
10211 Wincopin Circle
4'th Floor
Columbia, Maryland 21044

Attn: Mr. Aron Krasnopoler

Authorized for release by:
8/4/2017 4:51:35 PM

David Dunlap, Senior Project Manager
(412)963-2432
david.dunlap@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Job ID: 180-68756-1

Laboratory: TestAmerica Pittsburgh

Narrative

Job Narrative
180-68756-1

Receipt
The samples were received on 8/1/2017 8:40 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 3.1º C and 3.6º C.

GC/MS VOA
Method(s) 8260C: The continuing calibration verification (CCV) analyzed in batch 180-218817 was above method criteria for the following analytes: 1,1,1-trichloroethane and 1,2-dichloroethane. As the CCV was high and these analytes were not detected in the associated samples, the results were reported.

Method(s) 8260C: The continuing calibration verification (CCV) analyzed in batch 180-218817 was below method criteria for the following analyte: 2-butanone (MEK). A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte is considered estimated.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method(s) 8270D LL: The following samples were diluted to bring the concentration of target analytes within the calibration range: W1-b, S1, C 073117 (180-68756-3) and W1-b, S4, C 073117 (180-68756-12). Elevated reporting limits (RLs) are provided.

Method(s) 8270D LL: The following samples were diluted due to the nature of the sample matrix (viscous sample extracts): W1-b, S2, C 073117 (180-68756-6) and W1-b, S3, C 073117 (180-68756-9). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals
Method(s) 7471B: The matrix spike/matrix spike duplicate (MS/MSD) recoveries of sample W1-b, S1, C 073117 (180-68756-3) were below the control limits for mercury. The recovery of the laboratory control sample (LCS) was within the control limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Definitions/Glossary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68756-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc. TestAmerica Job ID: 180-68756-1
Project/Site: Former Sperry Remington Site - North IRM

Laboratory: TestAmerica Pittsburgh

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	11182	03-31-18

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
2540G		Solid	Percent Moisture
2540G		Solid	Percent Solids
8270D LL	3541	Solid	1,4-Dioxane

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68756-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-68756-1	W1-b, S1, A 073117	Solid	07/31/17 09:05	08/01/17 08:40
180-68756-2	W1-b, S1, B 073117	Solid	07/31/17 09:15	08/01/17 08:40
180-68756-3	W1-b, S1, C 073117	Solid	07/31/17 09:25	08/01/17 08:40
180-68756-4	W1-b, S2, A 073117	Solid	07/31/17 09:50	08/01/17 08:40
180-68756-5	W1-b, S2, B 073117	Solid	07/31/17 09:55	08/01/17 08:40
180-68756-6	W1-b, S2, C 073117	Solid	07/31/17 10:05	08/01/17 08:40
180-68756-7	W1-b, S3, A 073117	Solid	07/31/17 10:40	08/01/17 08:40
180-68756-8	W1-b, S3, B 073117	Solid	07/31/17 10:50	08/01/17 08:40
180-68756-9	W1-b, S3, C 073117	Solid	07/31/17 10:55	08/01/17 08:40
180-68756-10	W1-b, S4, A 073117	Solid	07/31/17 11:00	08/01/17 08:40
180-68756-11	W1-b, S4, B 073117	Solid	07/31/17 11:10	08/01/17 08:40
180-68756-12	W1-b, S4, C 073117	Solid	07/31/17 11:15	08/01/17 08:40
180-68756-17	TRIP BLANK #1	Water	07/31/17 00:00	08/01/17 08:40
180-68756-18	DUP 20	Solid	07/31/17 00:00	08/01/17 08:40

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68756-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL PIT
8260C	Volatile Organic Compounds (GC/MS)	SW846	TAL PIT
8270D LL	Semivolatile Organic Compounds by GC/MS - Low Level	SW846	TAL PIT
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL PIT
6010C	Metals (ICP)	SW846	TAL PIT
7471B	Mercury (CVAA)	SW846	TAL PIT
2540G	SM 2540G	SM22	TAL PIT
9014	Cyanide	SW846	TAL PIT

Protocol References:

SM22 = SM22

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68756-1

Client Sample ID: W1-b, S1, A 073117
Date Collected: 07/31/17 09:05
Date Received: 08/01/17 08:40

Lab Sample ID: 180-68756-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218750	08/01/17 13:27	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W1-b, S1, A 073117
Date Collected: 07/31/17 09:05
Date Received: 08/01/17 08:40

Lab Sample ID: 180-68756-1
Matrix: Solid
Percent Solids: 90.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			7.0363 g	5 mL	218835	08/02/17 07:00	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	218817	08/02/17 11:24	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W1-b, S1, B 073117
Date Collected: 07/31/17 09:15
Date Received: 08/01/17 08:40

Lab Sample ID: 180-68756-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218750	08/01/17 13:27	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W1-b, S1, B 073117
Date Collected: 07/31/17 09:15
Date Received: 08/01/17 08:40

Lab Sample ID: 180-68756-2
Matrix: Solid
Percent Solids: 90.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.1489 g	5 mL	218835	08/02/17 07:00	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	218817	08/02/17 11:46	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W1-b, S1, C 073117
Date Collected: 07/31/17 09:25
Date Received: 08/01/17 08:40

Lab Sample ID: 180-68756-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218750	08/01/17 13:27	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W1-b, S1, C 073117
Date Collected: 07/31/17 09:25
Date Received: 08/01/17 08:40

Lab Sample ID: 180-68756-3
Matrix: Solid
Percent Solids: 88.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	0.5 mL	218783	08/01/17 12:15	CBY	TAL PIT

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68756-1

Client Sample ID: W1-b, S1, C 073117

Lab Sample ID: 180-68756-3
Date Collected: 07/31/17 09:25
Matrix: Solid
Date Received: 08/01/17 08:40
Percent Solids: 88.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8270D LL		5	1 mL	1 mL	218840	08/02/17 13:16	VVP	TAL PIT
	Instrument ID: CH731									
Total/NA	Prep	3541			15.0 g	20.0 mL	218784	08/01/17 12:15	CBY	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	218827	08/02/17 06:48	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	218828	08/02/17 06:49	JMO	TAL PIT
Total/NA	Analysis	8082A		5			218951	08/03/17 20:36	JMO	TAL PIT
	Instrument ID: CHGC8									
Total/NA	Prep	3050B			0.98 g	100 mL	218882	08/02/17 11:34	CRM	TAL PIT
Total/NA	Analysis	6010C		1			219034	08/03/17 11:31	RJG	TAL PIT
	Instrument ID: Q									
Total/NA	Prep	7471B			0.68 g	100 mL	218756	08/01/17 13:50	RJR	TAL PIT
Total/NA	Analysis	7471B		1			218849	08/02/17 07:24	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.01 g	50 mL	218907	08/02/17 13:35	JAS	TAL PIT
Total/NA	Analysis	9014		1			219021	08/03/17 11:34	JAS	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: W1-b, S2, A 073117

Lab Sample ID: 180-68756-4
Date Collected: 07/31/17 09:50
Matrix: Solid
Date Received: 08/01/17 08:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218750	08/01/17 13:27	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W1-b, S2, A 073117

Lab Sample ID: 180-68756-4
Date Collected: 07/31/17 09:50
Matrix: Solid
Date Received: 08/01/17 08:40
Percent Solids: 90.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.4868 g	5 mL	218835	08/02/17 07:00	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	218817	08/02/17 12:54	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W1-b, S2, B 073117

Lab Sample ID: 180-68756-5
Date Collected: 07/31/17 09:55
Matrix: Solid
Date Received: 08/01/17 08:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218750	08/01/17 13:27	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68756-1

Client Sample ID: W1-b, S2, B 073117

Lab Sample ID: 180-68756-5
Date Collected: 07/31/17 09:55
Matrix: Solid
Date Received: 08/01/17 08:40
Percent Solids: 91.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.0159 g	5 mL	218835	08/02/17 07:00	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	218817	08/02/17 12:31	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W1-b, S2, C 073117

Lab Sample ID: 180-68756-6
Date Collected: 07/31/17 10:05
Matrix: Solid
Date Received: 08/01/17 08:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218750	08/01/17 13:27	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W1-b, S2, C 073117

Lab Sample ID: 180-68756-6
Date Collected: 07/31/17 10:05
Matrix: Solid
Date Received: 08/01/17 08:40
Percent Solids: 88.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	0.5 mL	218783	08/01/17 12:15	CBY	TAL PIT
Total/NA	Analysis	8270D LL		20	1 mL	1 mL	219016	08/03/17 18:48	VVP	TAL PIT
	Instrument ID: CH731									
Total/NA	Prep	3541			15.2 g	20.0 mL	218784	08/01/17 12:15	CBY	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	218827	08/02/17 06:48	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	218828	08/02/17 06:49	JMO	TAL PIT
Total/NA	Analysis	8082A		1			218834	08/02/17 14:19	JMO	TAL PIT
	Instrument ID: CHGC8									
Total/NA	Prep	3050B			0.94 g	100 mL	218882	08/02/17 11:34	CRM	TAL PIT
Total/NA	Analysis	6010C		1			219034	08/03/17 11:36	RJG	TAL PIT
	Instrument ID: Q									
Total/NA	Prep	7471B			0.59 g	100 mL	218756	08/01/17 13:50	RJR	TAL PIT
Total/NA	Analysis	7471B		1			218849	08/02/17 07:38	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.03 g	50 mL	218907	08/02/17 13:35	JAS	TAL PIT
Total/NA	Analysis	9014		1			219021	08/03/17 11:36	JAS	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: W1-b, S3, A 073117

Lab Sample ID: 180-68756-7
Date Collected: 07/31/17 10:40
Matrix: Solid
Date Received: 08/01/17 08:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218750	08/01/17 13:27	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W1-b, S3, A 073117

Lab Sample ID: 180-68756-7
Date Collected: 07/31/17 10:40
Matrix: Solid
Date Received: 08/01/17 08:40
Percent Solids: 89.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.6949 g	5 mL	218835	08/02/17 07:00	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	218817	08/02/17 13:17	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W1-b, S3, B 073117

Lab Sample ID: 180-68756-8
Date Collected: 07/31/17 10:50
Matrix: Solid
Date Received: 08/01/17 08:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218750	08/01/17 13:27	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W1-b, S3, B 073117

Lab Sample ID: 180-68756-8
Date Collected: 07/31/17 10:50
Matrix: Solid
Date Received: 08/01/17 08:40
Percent Solids: 90.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.1799 g	5 mL	218835	08/02/17 07:00	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	218817	08/02/17 13:40	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W1-b, S3, C 073117

Lab Sample ID: 180-68756-9
Date Collected: 07/31/17 10:55
Matrix: Solid
Date Received: 08/01/17 08:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218750	08/01/17 13:27	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W1-b, S3, C 073117

Lab Sample ID: 180-68756-9
Date Collected: 07/31/17 10:55
Matrix: Solid
Date Received: 08/01/17 08:40
Percent Solids: 89.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.1 g	0.5 mL	218783	08/01/17 12:15	CBY	TAL PIT
Total/NA	Analysis	8270D LL		2	1 mL	1 mL	219016	08/03/17 19:15	VVP	TAL PIT
	Instrument ID: CH731									
Total/NA	Prep	3541			15.1 g	20.0 mL	218784	08/01/17 12:15	CBY	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	218827	08/02/17 06:48	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	218828	08/02/17 06:49	JMO	TAL PIT
Total/NA	Analysis	8082A		1			218834	08/02/17 14:39	JMO	TAL PIT
	Instrument ID: CHGC8									
Total/NA	Prep	3050B			0.95 g	100 mL	218882	08/02/17 11:34	CRM	TAL PIT

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68756-1

Client Sample ID: W1-b, S3, C 073117
Lab Sample ID: 180-68756-9
Date Collected: 07/31/17 10:55
Matrix: Solid
Date Received: 08/01/17 08:40
Percent Solids: 89.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	6010C		1			219034	08/03/17 11:41	RJG	TAL PIT
	Instrument ID: Q									
Total/NA	Prep	7471B			0.59 g	100 mL	218756	08/01/17 13:50	RJR	TAL PIT
Total/NA	Analysis	7471B		1			218849	08/02/17 07:44	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.02 g	50 mL	218907	08/02/17 13:35	JAS	TAL PIT
Total/NA	Analysis	9014		1			219021	08/03/17 11:38	JAS	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: W1-b, S4, A 073117
Lab Sample ID: 180-68756-10
Date Collected: 07/31/17 11:00
Matrix: Solid
Date Received: 08/01/17 08:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218750	08/01/17 13:27	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W1-b, S4, A 073117
Lab Sample ID: 180-68756-10
Date Collected: 07/31/17 11:00
Matrix: Solid
Date Received: 08/01/17 08:40
Percent Solids: 88.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.044 g	5 mL	218835	08/02/17 07:00	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	218817	08/02/17 14:02	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W1-b, S4, B 073117
Lab Sample ID: 180-68756-11
Date Collected: 07/31/17 11:10
Matrix: Solid
Date Received: 08/01/17 08:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218750	08/01/17 13:27	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W1-b, S4, B 073117
Lab Sample ID: 180-68756-11
Date Collected: 07/31/17 11:10
Matrix: Solid
Date Received: 08/01/17 08:40
Percent Solids: 90.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3.6597 g	5 mL	218835	08/02/17 07:00	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	218817	08/02/17 14:24	KLG	TAL PIT
	Instrument ID: CHHP3									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68756-1

Client Sample ID: W1-b, S4, C 073117
Date Collected: 07/31/17 11:15
Date Received: 08/01/17 08:40

Lab Sample ID: 180-68756-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218750	08/01/17 13:27	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W1-b, S4, C 073117
Date Collected: 07/31/17 11:15
Date Received: 08/01/17 08:40

Lab Sample ID: 180-68756-12
Matrix: Solid
Percent Solids: 89.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.1 g	0.5 mL	218783	08/01/17 12:15	CBY	TAL PIT
Total/NA	Analysis	8270D LL		5	1 mL	1 mL	219016	08/03/17 19:43	VVP	TAL PIT
	Instrument ID: CH731									
Total/NA	Prep	3541			15.0 g	20.0 mL	218784	08/01/17 12:15	CBY	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	218827	08/02/17 06:48	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	218828	08/02/17 06:49	JMO	TAL PIT
Total/NA	Analysis	8082A		1			218834	08/02/17 14:59	JMO	TAL PIT
	Instrument ID: CHGC8									
Total/NA	Prep	3050B			0.99 g	100 mL	218882	08/02/17 11:34	CRM	TAL PIT
Total/NA	Analysis	6010C		1			219034	08/03/17 11:46	RJG	TAL PIT
	Instrument ID: Q									
Total/NA	Prep	7471B			0.67 g	100 mL	218756	08/01/17 13:50	RJR	TAL PIT
Total/NA	Analysis	7471B		1			218849	08/02/17 07:46	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.04 g	50 mL	218907	08/02/17 13:35	JAS	TAL PIT
Total/NA	Analysis	9014		1			219021	08/03/17 11:39	JAS	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: TRIP BLANK #1
Date Collected: 07/31/17 00:00
Date Received: 08/01/17 08:40

Lab Sample ID: 180-68756-17
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	218804	08/02/17 04:34	FBB	TAL PIT
	Instrument ID: CHHP5									

Client Sample ID: DUP 20
Date Collected: 07/31/17 00:00
Date Received: 08/01/17 08:40

Lab Sample ID: 180-68756-18
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218750	08/01/17 13:27	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68756-1

Client Sample ID: DUP 20
Date Collected: 07/31/17 00:00
Date Received: 08/01/17 08:40

Lab Sample ID: 180-68756-18
Matrix: Solid
Percent Solids: 88.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.8092 g	5 mL	218835	08/02/17 07:00	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	218817	08/02/17 14:47	KLG	TAL PIT
	Instrument ID: CHHP3									

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Analyst References:

Lab: TAL PIT

Batch Type: Cleanup

JMO = John Oravec

Batch Type: Prep

CBY = Charles Yushinski

CRM = Caitlin McEvoy

JAS = Joshua Schmidt

KLG = Kathy Gordon

RJR = Ron Rosenbaum

Batch Type: Analysis

FBB = Frank Bungard

JAS = Joshua Schmidt

JMO = John Oravec

JTL = Justin Landry

KLG = Kathy Gordon

RJG = Rob Good

RJR = Ron Rosenbaum

VVP = Vincent Piccolino

Client Sample ID: W1-b, S1, A 073117

Lab Sample ID: 180-68756-1
Date Collected: 07/31/17 09:05
Matrix: Solid
Date Received: 08/01/17 08:40
Percent Solids: 90.9

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.016	0.0025	mg/Kg	☼	08/02/17 07:00	08/02/17 11:24	1
Benzene	ND		0.0039	0.0015	mg/Kg	☼	08/02/17 07:00	08/02/17 11:24	1
2-Butanone (MEK)	ND		0.0039	0.0023	mg/Kg	☼	08/02/17 07:00	08/02/17 11:24	1
Carbon tetrachloride	ND		0.0039	0.0026	mg/Kg	☼	08/02/17 07:00	08/02/17 11:24	1
Chlorobenzene	ND		0.0039	0.0012	mg/Kg	☼	08/02/17 07:00	08/02/17 11:24	1
Chloroform	ND		0.0039	0.0017	mg/Kg	☼	08/02/17 07:00	08/02/17 11:24	1
cis-1,2-Dichloroethene	ND		0.0039	0.0012	mg/Kg	☼	08/02/17 07:00	08/02/17 11:24	1
1,2-Dichlorobenzene	ND		0.0039	0.0031	mg/Kg	☼	08/02/17 07:00	08/02/17 11:24	1
1,3-Dichlorobenzene	ND		0.0039	0.0012	mg/Kg	☼	08/02/17 07:00	08/02/17 11:24	1
1,4-Dichlorobenzene	ND		0.0039	0.00080	mg/Kg	☼	08/02/17 07:00	08/02/17 11:24	1
1,1-Dichloroethane	ND		0.0039	0.0014	mg/Kg	☼	08/02/17 07:00	08/02/17 11:24	1
1,2-Dichloroethane	ND		0.0039	0.0011	mg/Kg	☼	08/02/17 07:00	08/02/17 11:24	1
1,1-Dichloroethene	ND		0.0039	0.0022	mg/Kg	☼	08/02/17 07:00	08/02/17 11:24	1
Ethylbenzene	ND		0.0039	0.0017	mg/Kg	☼	08/02/17 07:00	08/02/17 11:24	1
Methylene Chloride	ND		0.0039	0.0018	mg/Kg	☼	08/02/17 07:00	08/02/17 11:24	1
Methyl tert-butyl ether	ND		0.0039	0.0029	mg/Kg	☼	08/02/17 07:00	08/02/17 11:24	1
n-Butylbenzene	ND		0.0039	0.0030	mg/Kg	☼	08/02/17 07:00	08/02/17 11:24	1
N-Propylbenzene	ND		0.0039	0.0016	mg/Kg	☼	08/02/17 07:00	08/02/17 11:24	1
sec-Butylbenzene	ND		0.0039	0.0019	mg/Kg	☼	08/02/17 07:00	08/02/17 11:24	1
tert-Butylbenzene	ND		0.0039	0.0014	mg/Kg	☼	08/02/17 07:00	08/02/17 11:24	1
Tetrachloroethene	ND		0.0039	0.0016	mg/Kg	☼	08/02/17 07:00	08/02/17 11:24	1
Toluene	ND		0.0039	0.0013	mg/Kg	☼	08/02/17 07:00	08/02/17 11:24	1
trans-1,2-Dichloroethene	ND		0.0039	0.0020	mg/Kg	☼	08/02/17 07:00	08/02/17 11:24	1
1,1,1-Trichloroethane	ND		0.0039	0.0020	mg/Kg	☼	08/02/17 07:00	08/02/17 11:24	1
Trichloroethene	ND		0.0039	0.0012	mg/Kg	☼	08/02/17 07:00	08/02/17 11:24	1
1,2,4-Trimethylbenzene	ND		0.0039	0.0011	mg/Kg	☼	08/02/17 07:00	08/02/17 11:24	1
1,3,5-Trimethylbenzene	ND		0.0039	0.0013	mg/Kg	☼	08/02/17 07:00	08/02/17 11:24	1
Vinyl chloride	ND		0.0039	0.0029	mg/Kg	☼	08/02/17 07:00	08/02/17 11:24	1
Xylenes, Total	ND		0.0078	0.0034	mg/Kg	☼	08/02/17 07:00	08/02/17 11:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*63 - 120*	*08/02/17 07:00*	*08/02/17 11:24*	*1*
Dibromofluoromethane (Surr)	*99*		*68 - 121*	*08/02/17 07:00*	*08/02/17 11:24*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*52 - 124*	*08/02/17 07:00*	*08/02/17 11:24*	*1*
Toluene-d8 (Surr)	*110*		*72 - 127*	*08/02/17 07:00*	*08/02/17 11:24*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.1**		0.1	0.1	%			08/01/17 13:27	1
Percent Solids	**90.9**		0.1	0.1	%			08/01/17 13:27	1

Client Sample ID: W1-b, S1, B 073117

Lab Sample ID: 180-68756-2
Date Collected: 07/31/17 09:15
Matrix: Solid
Date Received: 08/01/17 08:40
Percent Solids: 90.1

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.018	0.0028	mg/Kg	☼	08/02/17 07:00	08/02/17 11:46	1
Benzene	ND		0.0045	0.0018	mg/Kg	☼	08/02/17 07:00	08/02/17 11:46	1
2-Butanone (MEK)	ND		0.0045	0.0026	mg/Kg	☼	08/02/17 07:00	08/02/17 11:46	1

Client Sample ID: W1-b, S1, B 073117 — Lab Sample ID: 180-68756-2

Date Collected: 07/31/17 09:15 — **Matrix: Solid**
Date Received: 08/01/17 08:40 — **Percent Solids: 90.1**

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	ND		0.0045	0.0030	mg/Kg	☼	08/02/17 07:00	08/02/17 11:46	1
Chlorobenzene	ND		0.0045	0.0014	mg/Kg	☼	08/02/17 07:00	08/02/17 11:46	1
Chloroform	ND		0.0045	0.0019	mg/Kg	☼	08/02/17 07:00	08/02/17 11:46	1
cis-1,2-Dichloroethene	ND		0.0045	0.0014	mg/Kg	☼	08/02/17 07:00	08/02/17 11:46	1
1,2-Dichlorobenzene	ND		0.0045	0.0036	mg/Kg	☼	08/02/17 07:00	08/02/17 11:46	1
1,3-Dichlorobenzene	ND		0.0045	0.0014	mg/Kg	☼	08/02/17 07:00	08/02/17 11:46	1
1,4-Dichlorobenzene	ND		0.0045	0.00092	mg/Kg	☼	08/02/17 07:00	08/02/17 11:46	1
1,1-Dichloroethane	ND		0.0045	0.0016	mg/Kg	☼	08/02/17 07:00	08/02/17 11:46	1
1,2-Dichloroethane	ND		0.0045	0.0013	mg/Kg	☼	08/02/17 07:00	08/02/17 11:46	1
1,1-Dichloroethene	ND		0.0045	0.0026	mg/Kg	☼	08/02/17 07:00	08/02/17 11:46	1
Ethylbenzene	ND		0.0045	0.0019	mg/Kg	☼	08/02/17 07:00	08/02/17 11:46	1
Methylene Chloride	ND		0.0045	0.0021	mg/Kg	☼	08/02/17 07:00	08/02/17 11:46	1
Methyl tert-butyl ether	ND		0.0045	0.0033	mg/Kg	☼	08/02/17 07:00	08/02/17 11:46	1
n-Butylbenzene	ND		0.0045	0.0034	mg/Kg	☼	08/02/17 07:00	08/02/17 11:46	1
N-Propylbenzene	ND		0.0045	0.0019	mg/Kg	☼	08/02/17 07:00	08/02/17 11:46	1
sec-Butylbenzene	ND		0.0045	0.0022	mg/Kg	☼	08/02/17 07:00	08/02/17 11:46	1
tert-Butylbenzene	ND		0.0045	0.0017	mg/Kg	☼	08/02/17 07:00	08/02/17 11:46	1
Tetrachloroethene	ND		0.0045	0.0018	mg/Kg	☼	08/02/17 07:00	08/02/17 11:46	1
Toluene	ND		0.0045	0.0015	mg/Kg	☼	08/02/17 07:00	08/02/17 11:46	1
trans-1,2-Dichloroethene	ND		0.0045	0.0023	mg/Kg	☼	08/02/17 07:00	08/02/17 11:46	1
1,1,1-Trichloroethane	ND		0.0045	0.0023	mg/Kg	☼	08/02/17 07:00	08/02/17 11:46	1
Trichloroethene	ND		0.0045	0.0014	mg/Kg	☼	08/02/17 07:00	08/02/17 11:46	1
1,2,4-Trimethylbenzene	ND		0.0045	0.0012	mg/Kg	☼	08/02/17 07:00	08/02/17 11:46	1
1,3,5-Trimethylbenzene	ND		0.0045	0.0016	mg/Kg	☼	08/02/17 07:00	08/02/17 11:46	1
Vinyl chloride	ND		0.0045	0.0033	mg/Kg	☼	08/02/17 07:00	08/02/17 11:46	1
Xylenes, Total	ND		0.0090	0.0039	mg/Kg	☼	08/02/17 07:00	08/02/17 11:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*63 - 120*	*08/02/17 07:00*	*08/02/17 11:46*	*1*
Dibromofluoromethane (Surr)	*99*		*68 - 121*	*08/02/17 07:00*	*08/02/17 11:46*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*52 - 124*	*08/02/17 07:00*	*08/02/17 11:46*	*1*
Toluene-d8 (Surr)	*111*		*72 - 127*	*08/02/17 07:00*	*08/02/17 11:46*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.9**		0.1	0.1	%			08/01/17 13:27	1
Percent Solids	**90.1**		0.1	0.1	%			08/01/17 13:27	1

Client Sample ID: W1-b, S1, C 073117 — Lab Sample ID: 180-68756-3

Date Collected: 07/31/17 09:25 — **Matrix: Solid**
Date Received: 08/01/17 08:40 — **Percent Solids: 88.8**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.037**	**J**	0.038	0.013	mg/Kg	☼	08/01/17 12:15	08/02/17 13:16	5
Acenaphthylene	**0.59**		0.038	0.013	mg/Kg	☼	08/01/17 12:15	08/02/17 13:16	5
Anthracene	**0.41**		0.038	0.014	mg/Kg	☼	08/01/17 12:15	08/02/17 13:16	5
Benzo[a]anthracene	**1.2**		0.038	0.015	mg/Kg	☼	08/01/17 12:15	08/02/17 13:16	5
Benzo[a]pyrene	**1.2**		0.038	0.016	mg/Kg	☼	08/01/17 12:15	08/02/17 13:16	5
Benzo[b]fluoranthene	**1.7**		0.038	0.016	mg/Kg	☼	08/01/17 12:15	08/02/17 13:16	5

Client Sample ID: W1-b, S1, C 073117 **Lab Sample ID: 180-68756-3**
Date Collected: 07/31/17 09:25 **Matrix: Solid**
Date Received: 08/01/17 08:40 **Percent Solids: 88.8**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	**1.4**		0.038	0.016	mg/Kg	☼	08/01/17 12:15	08/02/17 13:16	5
Benzo[k]fluoranthene	**0.61**		0.038	0.013	mg/Kg	☼	08/01/17 12:15	08/02/17 13:16	5
Chrysene	**1.3**		0.038	0.015	mg/Kg	☼	08/01/17 12:15	08/02/17 13:16	5
Dibenz(a,h)anthracene	**0.33**		0.038	0.016	mg/Kg	☼	08/01/17 12:15	08/02/17 13:16	5
Dibenzofuran	**0.061**	**J**	0.19	0.015	mg/Kg	☼	08/01/17 12:15	08/02/17 13:16	5
2,4-Dinitrotoluene	ND		190	25	ug/Kg	☼	08/01/17 12:15	08/02/17 13:16	5
1,4-Dioxane	ND		0.38	0.028	mg/Kg	☼	08/01/17 12:15	08/02/17 13:16	5
Fluoranthene	**2.6**		0.038	0.015	mg/Kg	☼	08/01/17 12:15	08/02/17 13:16	5
Fluorene	**0.12**		0.038	0.013	mg/Kg	☼	08/01/17 12:15	08/02/17 13:16	5
Hexachlorobenzene	ND		0.038	0.015	mg/Kg	☼	08/01/17 12:15	08/02/17 13:16	5
Hexachlorobutadiene	ND		38	12	ug/Kg	☼	08/01/17 12:15	08/02/17 13:16	5
Hexachloroethane	ND		190	13	ug/Kg	☼	08/01/17 12:15	08/02/17 13:16	5
Indeno[1,2,3-cd]pyrene	**1.1**		0.038	0.015	mg/Kg	☼	08/01/17 12:15	08/02/17 13:16	5
2-Methylphenol	ND		0.19	0.017	mg/Kg	☼	08/01/17 12:15	08/02/17 13:16	5
Methylphenol, 3 & 4	ND		0.19	0.017	mg/Kg	☼	08/01/17 12:15	08/02/17 13:16	5
Naphthalene	**0.094**		0.038	0.013	mg/Kg	☼	08/01/17 12:15	08/02/17 13:16	5
Nitrobenzene	ND		380	14	ug/Kg	☼	08/01/17 12:15	08/02/17 13:16	5
Pentachlorophenol	ND		0.96	0.36	mg/Kg	☼	08/01/17 12:15	08/02/17 13:16	5
Phenanthrene	**1.5**		0.038	0.016	mg/Kg	☼	08/01/17 12:15	08/02/17 13:16	5
Phenol	ND		0.19	0.025	mg/Kg	☼	08/01/17 12:15	08/02/17 13:16	5
Pyrene	**2.0**		0.038	0.017	mg/Kg	☼	08/01/17 12:15	08/02/17 13:16	5
Pyridine	ND		190	18	ug/Kg	☼	08/01/17 12:15	08/02/17 13:16	5
2,4,5-Trichlorophenol	ND		190	18	ug/Kg	☼	08/01/17 12:15	08/02/17 13:16	5
2,4,6-Trichlorophenol	ND		190	16	ug/Kg	☼	08/01/17 12:15	08/02/17 13:16	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*81*		*42 - 100*	*08/01/17 12:15*	*08/02/17 13:16*	*5*
2-Fluorophenol (Surr)	*70*		*21 - 107*	*08/01/17 12:15*	*08/02/17 13:16*	*5*
Nitrobenzene-d5 (Surr)	*72*		*35 - 109*	*08/01/17 12:15*	*08/02/17 13:16*	*5*
Phenol-d5 (Surr)	*70*		*29 - 105*	*08/01/17 12:15*	*08/02/17 13:16*	*5*
Terphenyl-d14 (Surr)	*79*		*36 - 113*	*08/01/17 12:15*	*08/02/17 13:16*	*5*
2,4,6-Tribromophenol (Surr)	*82*		*20 - 134*	*08/01/17 12:15*	*08/02/17 13:16*	*5*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.094	0.050	mg/Kg	☼	08/01/17 12:15	08/03/17 20:36	5
PCB-1221	ND		0.094	0.049	mg/Kg	☼	08/01/17 12:15	08/03/17 20:36	5
PCB-1232	ND		0.094	0.037	mg/Kg	☼	08/01/17 12:15	08/03/17 20:36	5
PCB-1242	ND		0.094	0.075	mg/Kg	☼	08/01/17 12:15	08/03/17 20:36	5
PCB-1248	**9.1**		0.094	0.045	mg/Kg	☼	08/01/17 12:15	08/03/17 20:36	5
PCB-1254	**4.7**		0.094	0.041	mg/Kg	☼	08/01/17 12:15	08/03/17 20:36	5
PCB-1260	**0.96**		0.094	0.063	mg/Kg	☼	08/01/17 12:15	08/03/17 20:36	5
PCB-1262	ND		0.094	0.067	mg/Kg	☼	08/01/17 12:15	08/03/17 20:36	5
PCB-1268	ND		0.094	0.029	mg/Kg	☼	08/01/17 12:15	08/03/17 20:36	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*99*		*23 - 150*	*08/01/17 12:15*	*08/03/17 20:36*	*5*
DCB Decachlorobiphenyl (Surr)	*114*		*23 - 150*	*08/01/17 12:15*	*08/03/17 20:36*	*5*
Tetrachloro-m-xylene (Surr)	*85*		*27 - 138*	*08/01/17 12:15*	*08/03/17 20:36*	*5*
Tetrachloro-m-xylene (Surr)	*87*		*27 - 138*	*08/01/17 12:15*	*08/03/17 20:36*	*5*

Client Sample ID: W1-b, S1, C 073117

Lab Sample ID: 180-68756-3

Date Collected: 07/31/17 09:25
Matrix: Solid
Date Received: 08/01/17 08:40
Percent Solids: 88.8

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.6		1.1	0.51	mg/Kg	☼	08/02/17 11:34	08/03/17 11:31	1
Barium	75		23	6.2	mg/Kg	☼	08/02/17 11:34	08/03/17 11:31	1
Beryllium	0.35	J	0.46	0.12	mg/Kg	☼	08/02/17 11:34	08/03/17 11:31	1
Cadmium	0.14	J	0.57	0.13	mg/Kg	☼	08/02/17 11:34	08/03/17 11:31	1
Chromium	9.7		0.57	0.15	mg/Kg	☼	08/02/17 11:34	08/03/17 11:31	1
Copper	41		2.9	0.88	mg/Kg	☼	08/02/17 11:34	08/03/17 11:31	1
Lead	64		1.1	0.38	mg/Kg	☼	08/02/17 11:34	08/03/17 11:31	1
Manganese	310		1.7	0.47	mg/Kg	☼	08/02/17 11:34	08/03/17 11:31	1
Nickel	21		4.6	1.0	mg/Kg	☼	08/02/17 11:34	08/03/17 11:31	1
Selenium	ND		1.1	0.46	mg/Kg	☼	08/02/17 11:34	08/03/17 11:31	1
Silver	ND		0.57	0.19	mg/Kg	☼	08/02/17 11:34	08/03/17 11:31	1
Zinc	95		2.3	1.2	mg/Kg	☼	08/02/17 11:34	08/03/17 11:31	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.058	F1 F2	0.033	0.0073	mg/Kg	☼	08/01/17 13:50	08/02/17 07:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	11.2		0.1	0.1	%			08/01/17 13:27	1
Percent Solids	88.8		0.1	0.1	%			08/01/17 13:27	1
Cyanide, Total	ND		0.56	0.17	mg/Kg	☼	08/02/17 13:35	08/03/17 11:34	1

Client Sample ID: W1-b, S2, A 073117

Lab Sample ID: 180-68756-4

Date Collected: 07/31/17 09:50
Matrix: Solid
Date Received: 08/01/17 08:40
Percent Solids: 90.5

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.025	0.0039	mg/Kg	☼	08/02/17 07:00	08/02/17 12:54	1
Benzene	ND		0.0062	0.0024	mg/Kg	☼	08/02/17 07:00	08/02/17 12:54	1
2-Butanone (MEK)	ND		0.0062	0.0036	mg/Kg	☼	08/02/17 07:00	08/02/17 12:54	1
Carbon tetrachloride	ND		0.0062	0.0041	mg/Kg	☼	08/02/17 07:00	08/02/17 12:54	1
Chlorobenzene	ND		0.0062	0.0019	mg/Kg	☼	08/02/17 07:00	08/02/17 12:54	1
Chloroform	ND		0.0062	0.0026	mg/Kg	☼	08/02/17 07:00	08/02/17 12:54	1
cis-1,2-Dichloroethene	ND		0.0062	0.0019	mg/Kg	☼	08/02/17 07:00	08/02/17 12:54	1
1,2-Dichlorobenzene	ND		0.0062	0.0050	mg/Kg	☼	08/02/17 07:00	08/02/17 12:54	1
1,3-Dichlorobenzene	ND		0.0062	0.0020	mg/Kg	☼	08/02/17 07:00	08/02/17 12:54	1
1,4-Dichlorobenzene	ND		0.0062	0.0013	mg/Kg	☼	08/02/17 07:00	08/02/17 12:54	1
1,1-Dichloroethane	ND		0.0062	0.0022	mg/Kg	☼	08/02/17 07:00	08/02/17 12:54	1
1,2-Dichloroethane	ND		0.0062	0.0018	mg/Kg	☼	08/02/17 07:00	08/02/17 12:54	1
1,1-Dichloroethene	ND		0.0062	0.0035	mg/Kg	☼	08/02/17 07:00	08/02/17 12:54	1
Ethylbenzene	ND		0.0062	0.0027	mg/Kg	☼	08/02/17 07:00	08/02/17 12:54	1
Methylene Chloride	ND		0.0062	0.0029	mg/Kg	☼	08/02/17 07:00	08/02/17 12:54	1
Methyl tert-butyl ether	ND		0.0062	0.0045	mg/Kg	☼	08/02/17 07:00	08/02/17 12:54	1
n-Butylbenzene	ND		0.0062	0.0047	mg/Kg	☼	08/02/17 07:00	08/02/17 12:54	1
N-Propylbenzene	ND		0.0062	0.0026	mg/Kg	☼	08/02/17 07:00	08/02/17 12:54	1
sec-Butylbenzene	ND		0.0062	0.0030	mg/Kg	☼	08/02/17 07:00	08/02/17 12:54	1
tert-Butylbenzene	ND		0.0062	0.0023	mg/Kg	☼	08/02/17 07:00	08/02/17 12:54	1
Tetrachloroethene	ND		0.0062	0.0025	mg/Kg	☼	08/02/17 07:00	08/02/17 12:54	1

Client Sample ID: W1-b, S2, A 073117 — Lab Sample ID: 180-68756-4

Date Collected: 07/31/17 09:50 — **Matrix: Solid**
Date Received: 08/01/17 08:40 — **Percent Solids: 90.5**

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		0.0062	0.0021	mg/Kg	☼	08/02/17 07:00	08/02/17 12:54	1
trans-1,2-Dichloroethene	ND		0.0062	0.0031	mg/Kg	☼	08/02/17 07:00	08/02/17 12:54	1
1,1,1-Trichloroethane	ND		0.0062	0.0031	mg/Kg	☼	08/02/17 07:00	08/02/17 12:54	1
Trichloroethene	ND		0.0062	0.0019	mg/Kg	☼	08/02/17 07:00	08/02/17 12:54	1
1,2,4-Trimethylbenzene	ND		0.0062	0.0017	mg/Kg	☼	08/02/17 07:00	08/02/17 12:54	1
1,3,5-Trimethylbenzene	ND		0.0062	0.0021	mg/Kg	☼	08/02/17 07:00	08/02/17 12:54	1
Vinyl chloride	ND		0.0062	0.0045	mg/Kg	☼	08/02/17 07:00	08/02/17 12:54	1
Xylenes, Total	ND		0.012	0.0053	mg/Kg	☼	08/02/17 07:00	08/02/17 12:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*63 - 120*	*08/02/17 07:00*	*08/02/17 12:54*	*1*
Dibromofluoromethane (Surr)	*96*		*68 - 121*	*08/02/17 07:00*	*08/02/17 12:54*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*52 - 124*	*08/02/17 07:00*	*08/02/17 12:54*	*1*
Toluene-d8 (Surr)	*107*		*72 - 127*	*08/02/17 07:00*	*08/02/17 12:54*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.5**		0.1	0.1	%			08/01/17 13:27	1
Percent Solids	**90.5**		0.1	0.1	%			08/01/17 13:27	1

Client Sample ID: W1-b, S2, B 073117 — Lab Sample ID: 180-68756-5

Date Collected: 07/31/17 09:55 — **Matrix: Solid**
Date Received: 08/01/17 08:40 — **Percent Solids: 91.3**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.018	0.0029	mg/Kg	☼	08/02/17 07:00	08/02/17 12:31	1
Benzene	ND		0.0045	0.0018	mg/Kg	☼	08/02/17 07:00	08/02/17 12:31	1
2-Butanone (MEK)	ND		0.0045	0.0026	mg/Kg	☼	08/02/17 07:00	08/02/17 12:31	1
Carbon tetrachloride	ND		0.0045	0.0030	mg/Kg	☼	08/02/17 07:00	08/02/17 12:31	1
Chlorobenzene	ND		0.0045	0.0014	mg/Kg	☼	08/02/17 07:00	08/02/17 12:31	1
Chloroform	ND		0.0045	0.0019	mg/Kg	☼	08/02/17 07:00	08/02/17 12:31	1
cis-1,2-Dichloroethene	ND		0.0045	0.0014	mg/Kg	☼	08/02/17 07:00	08/02/17 12:31	1
1,2-Dichlorobenzene	ND		0.0045	0.0037	mg/Kg	☼	08/02/17 07:00	08/02/17 12:31	1
1,3-Dichlorobenzene	ND		0.0045	0.0015	mg/Kg	☼	08/02/17 07:00	08/02/17 12:31	1
1,4-Dichlorobenzene	ND		0.0045	0.00093	mg/Kg	☼	08/02/17 07:00	08/02/17 12:31	1
1,1-Dichloroethane	ND		0.0045	0.0016	mg/Kg	☼	08/02/17 07:00	08/02/17 12:31	1
1,2-Dichloroethane	ND		0.0045	0.0013	mg/Kg	☼	08/02/17 07:00	08/02/17 12:31	1
1,1-Dichloroethene	ND		0.0045	0.0026	mg/Kg	☼	08/02/17 07:00	08/02/17 12:31	1
Ethylbenzene	ND		0.0045	0.0020	mg/Kg	☼	08/02/17 07:00	08/02/17 12:31	1
Methylene Chloride	ND		0.0045	0.0021	mg/Kg	☼	08/02/17 07:00	08/02/17 12:31	1
Methyl tert-butyl ether	ND		0.0045	0.0034	mg/Kg	☼	08/02/17 07:00	08/02/17 12:31	1
n-Butylbenzene	ND		0.0045	0.0034	mg/Kg	☼	08/02/17 07:00	08/02/17 12:31	1
N-Propylbenzene	ND		0.0045	0.0019	mg/Kg	☼	08/02/17 07:00	08/02/17 12:31	1
sec-Butylbenzene	ND		0.0045	0.0022	mg/Kg	☼	08/02/17 07:00	08/02/17 12:31	1
tert-Butylbenzene	ND		0.0045	0.0017	mg/Kg	☼	08/02/17 07:00	08/02/17 12:31	1
Tetrachloroethene	ND		0.0045	0.0018	mg/Kg	☼	08/02/17 07:00	08/02/17 12:31	1
Toluene	ND		0.0045	0.0015	mg/Kg	☼	08/02/17 07:00	08/02/17 12:31	1
trans-1,2-Dichloroethene	ND		0.0045	0.0023	mg/Kg	☼	08/02/17 07:00	08/02/17 12:31	1
1,1,1-Trichloroethane	ND		0.0045	0.0023	mg/Kg	☼	08/02/17 07:00	08/02/17 12:31	1

Client Sample ID: W1-b, S2, B 073117

Lab Sample ID: 180-68756-5
Date Collected: 07/31/17 09:55
Matrix: Solid
Date Received: 08/01/17 08:40
Percent Solids: 91.3

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	ND		0.0045	0.0014	mg/Kg	☼	08/02/17 07:00	08/02/17 12:31	1
1,2,4-Trimethylbenzene	ND		0.0045	0.0012	mg/Kg	☼	08/02/17 07:00	08/02/17 12:31	1
1,3,5-Trimethylbenzene	ND		0.0045	0.0016	mg/Kg	☼	08/02/17 07:00	08/02/17 12:31	1
Vinyl chloride	ND		0.0045	0.0033	mg/Kg	☼	08/02/17 07:00	08/02/17 12:31	1
Xylenes, Total	ND		0.0091	0.0039	mg/Kg	☼	08/02/17 07:00	08/02/17 12:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*63 - 120*	*08/02/17 07:00*	*08/02/17 12:31*	*1*
Dibromofluoromethane (Surr)	*99*		*68 - 121*	*08/02/17 07:00*	*08/02/17 12:31*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*52 - 124*	*08/02/17 07:00*	*08/02/17 12:31*	*1*
Toluene-d8 (Surr)	*108*		*72 - 127*	*08/02/17 07:00*	*08/02/17 12:31*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**8.7**		0.1	0.1	%			08/01/17 13:27	1
Percent Solids	**91.3**		0.1	0.1	%			08/01/17 13:27	1

Client Sample ID: W1-b, S2, C 073117

Lab Sample ID: 180-68756-6
Date Collected: 07/31/17 10:05
Matrix: Solid
Date Received: 08/01/17 08:40
Percent Solids: 88.9

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.15	0.050	mg/Kg	☼	08/01/17 12:15	08/03/17 18:48	20
Acenaphthylene	**0.12**	**J**	0.15	0.051	mg/Kg	☼	08/01/17 12:15	08/03/17 18:48	20
Anthracene	**0.087**	**J**	0.15	0.055	mg/Kg	☼	08/01/17 12:15	08/03/17 18:48	20
Benzo[a]anthracene	**0.29**		0.15	0.059	mg/Kg	☼	08/01/17 12:15	08/03/17 18:48	20
Benzo[a]pyrene	**0.30**		0.15	0.062	mg/Kg	☼	08/01/17 12:15	08/03/17 18:48	20
Benzo[b]fluoranthene	**0.44**		0.15	0.065	mg/Kg	☼	08/01/17 12:15	08/03/17 18:48	20
Benzo[g,h,i]perylene	**0.33**		0.15	0.065	mg/Kg	☼	08/01/17 12:15	08/03/17 18:48	20
Benzo[k]fluoranthene	**0.16**		0.15	0.052	mg/Kg	☼	08/01/17 12:15	08/03/17 18:48	20
Chrysene	**0.29**		0.15	0.059	mg/Kg	☼	08/01/17 12:15	08/03/17 18:48	20
Dibenz(a,h)anthracene	**0.066**	**J**	0.15	0.062	mg/Kg	☼	08/01/17 12:15	08/03/17 18:48	20
Dibenzofuran	ND		0.74	0.060	mg/Kg	☼	08/01/17 12:15	08/03/17 18:48	20
2,4-Dinitrotoluene	ND		740	99	ug/Kg	☼	08/01/17 12:15	08/03/17 18:48	20
1,4-Dioxane	ND		1.5	0.11	mg/Kg	☼	08/01/17 12:15	08/03/17 18:48	20
Fluoranthene	**0.45**		0.15	0.059	mg/Kg	☼	08/01/17 12:15	08/03/17 18:48	20
Fluorene	ND		0.15	0.053	mg/Kg	☼	08/01/17 12:15	08/03/17 18:48	20
Hexachlorobenzene	ND		0.15	0.060	mg/Kg	☼	08/01/17 12:15	08/03/17 18:48	20
Hexachlorobutadiene	ND		150	47	ug/Kg	☼	08/01/17 12:15	08/03/17 18:48	20
Hexachloroethane	ND		740	54	ug/Kg	☼	08/01/17 12:15	08/03/17 18:48	20
Indeno[1,2,3-cd]pyrene	**0.27**		0.15	0.058	mg/Kg	☼	08/01/17 12:15	08/03/17 18:48	20
2-Methylphenol	ND		0.74	0.066	mg/Kg	☼	08/01/17 12:15	08/03/17 18:48	20
Methylphenol, 3 & 4	ND		0.74	0.066	mg/Kg	☼	08/01/17 12:15	08/03/17 18:48	20
Naphthalene	**0.059**	**J**	0.15	0.054	mg/Kg	☼	08/01/17 12:15	08/03/17 18:48	20
Nitrobenzene	ND		1500	57	ug/Kg	☼	08/01/17 12:15	08/03/17 18:48	20
Pentachlorophenol	ND		3.8	1.4	mg/Kg	☼	08/01/17 12:15	08/03/17 18:48	20
Phenanthrene	**0.22**		0.15	0.063	mg/Kg	☼	08/01/17 12:15	08/03/17 18:48	20
Phenol	ND		0.74	0.10	mg/Kg	☼	08/01/17 12:15	08/03/17 18:48	20
Pyrene	**0.42**		0.15	0.067	mg/Kg	☼	08/01/17 12:15	08/03/17 18:48	20

Client Sample ID: W1-b, S2, C 073117
Date Collected: 07/31/17 10:05
Date Received: 08/01/17 08:40

Lab Sample ID: 180-68756-6
Matrix: Solid
Percent Solids: 88.9

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyridine	ND		740	72	ug/Kg	☼	08/01/17 12:15	08/03/17 18:48	20
2,4,5-Trichlorophenol	ND		740	71	ug/Kg	☼	08/01/17 12:15	08/03/17 18:48	20
2,4,6-Trichlorophenol	ND		740	66	ug/Kg	☼	08/01/17 12:15	08/03/17 18:48	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*84*		*42 - 100*	*08/01/17 12:15*	*08/03/17 18:48*	*20*
2-Fluorophenol (Surr)	*83*		*21 - 107*	*08/01/17 12:15*	*08/03/17 18:48*	*20*
Nitrobenzene-d5 (Surr)	*82*		*35 - 109*	*08/01/17 12:15*	*08/03/17 18:48*	*20*
Phenol-d5 (Surr)	*82*		*29 - 105*	*08/01/17 12:15*	*08/03/17 18:48*	*20*
Terphenyl-d14 (Surr)	*89*		*36 - 113*	*08/01/17 12:15*	*08/03/17 18:48*	*20*
2,4,6-Tribromophenol (Surr)	*100*		*20 - 134*	*08/01/17 12:15*	*08/03/17 18:48*	*20*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.018	0.0098	mg/Kg	☼	08/01/17 12:15	08/02/17 14:19	1
PCB-1221	ND		0.018	0.0096	mg/Kg	☼	08/01/17 12:15	08/02/17 14:19	1
PCB-1232	ND		0.018	0.0073	mg/Kg	☼	08/01/17 12:15	08/02/17 14:19	1
PCB-1242	ND		0.018	0.015	mg/Kg	☼	08/01/17 12:15	08/02/17 14:19	1
PCB-1248	**3.2**		0.018	0.0088	mg/Kg	☼	08/01/17 12:15	08/02/17 14:19	1
PCB-1254	**2.0**		0.018	0.0081	mg/Kg	☼	08/01/17 12:15	08/02/17 14:19	1
PCB-1260	**0.34**		0.018	0.012	mg/Kg	☼	08/01/17 12:15	08/02/17 14:19	1
PCB-1262	ND		0.018	0.013	mg/Kg	☼	08/01/17 12:15	08/02/17 14:19	1
PCB-1268	ND		0.018	0.0056	mg/Kg	☼	08/01/17 12:15	08/02/17 14:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*94*		*23 - 150*	*08/01/17 12:15*	*08/02/17 14:19*	*1*
DCB Decachlorobiphenyl (Surr)	*101*		*23 - 150*	*08/01/17 12:15*	*08/02/17 14:19*	*1*
Tetrachloro-m-xylene (Surr)	*99*		*27 - 138*	*08/01/17 12:15*	*08/02/17 14:19*	*1*
Tetrachloro-m-xylene (Surr)	*81*		*27 - 138*	*08/01/17 12:15*	*08/02/17 14:19*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**8.3**		1.2	0.53	mg/Kg	☼	08/02/17 11:34	08/03/17 11:36	1
Barium	**79**		24	6.4	mg/Kg	☼	08/02/17 11:34	08/03/17 11:36	1
Beryllium	**0.43**	**J**	0.48	0.13	mg/Kg	☼	08/02/17 11:34	08/03/17 11:36	1
Cadmium	ND		0.60	0.13	mg/Kg	☼	08/02/17 11:34	08/03/17 11:36	1
Chromium	**11**		0.60	0.16	mg/Kg	☼	08/02/17 11:34	08/03/17 11:36	1
Copper	**33**		3.0	0.92	mg/Kg	☼	08/02/17 11:34	08/03/17 11:36	1
Lead	**54**		1.2	0.39	mg/Kg	☼	08/02/17 11:34	08/03/17 11:36	1
Manganese	**440**		1.8	0.48	mg/Kg	☼	08/02/17 11:34	08/03/17 11:36	1
Nickel	**22**		4.8	1.1	mg/Kg	☼	08/02/17 11:34	08/03/17 11:36	1
Selenium	ND		1.2	0.47	mg/Kg	☼	08/02/17 11:34	08/03/17 11:36	1
Silver	ND		0.60	0.20	mg/Kg	☼	08/02/17 11:34	08/03/17 11:36	1
Zinc	**78**		2.4	1.2	mg/Kg	☼	08/02/17 11:34	08/03/17 11:36	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.058**		0.038	0.0084	mg/Kg	☼	08/01/17 13:50	08/02/17 07:38	1

Client Sample ID: W1-b, S2, C 073117 — Lab Sample ID: 180-68756-6

Date Collected: 07/31/17 10:05 — **Matrix: Solid**
Date Received: 08/01/17 08:40 — **Percent Solids: 88.9**

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**11.1**		0.1	0.1	%			08/01/17 13:27	1
Percent Solids	**88.9**		0.1	0.1	%			08/01/17 13:27	1
Cyanide, Total	ND		0.55	0.17	mg/Kg	☼	08/02/17 13:35	08/03/17 11:36	1

Client Sample ID: W1-b, S3, A 073117 — Lab Sample ID: 180-68756-7

Date Collected: 07/31/17 10:40 — **Matrix: Solid**
Date Received: 08/01/17 08:40 — **Percent Solids: 89.1**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.020	0.0031	mg/Kg	☼	08/02/17 07:00	08/02/17 13:17	1
Benzene	ND		0.0049	0.0019	mg/Kg	☼	08/02/17 07:00	08/02/17 13:17	1
2-Butanone (MEK)	ND		0.0049	0.0029	mg/Kg	☼	08/02/17 07:00	08/02/17 13:17	1
Carbon tetrachloride	ND		0.0049	0.0033	mg/Kg	☼	08/02/17 07:00	08/02/17 13:17	1
Chlorobenzene	ND		0.0049	0.0016	mg/Kg	☼	08/02/17 07:00	08/02/17 13:17	1
Chloroform	ND		0.0049	0.0021	mg/Kg	☼	08/02/17 07:00	08/02/17 13:17	1
cis-1,2-Dichloroethene	ND		0.0049	0.0016	mg/Kg	☼	08/02/17 07:00	08/02/17 13:17	1
1,2-Dichlorobenzene	ND		0.0049	0.0040	mg/Kg	☼	08/02/17 07:00	08/02/17 13:17	1
1,3-Dichlorobenzene	ND		0.0049	0.0016	mg/Kg	☼	08/02/17 07:00	08/02/17 13:17	1
1,4-Dichlorobenzene	ND		0.0049	0.0010	mg/Kg	☼	08/02/17 07:00	08/02/17 13:17	1
1,1-Dichloroethane	ND		0.0049	0.0018	mg/Kg	☼	08/02/17 07:00	08/02/17 13:17	1
1,2-Dichloroethane	ND		0.0049	0.0014	mg/Kg	☼	08/02/17 07:00	08/02/17 13:17	1
1,1-Dichloroethene	ND		0.0049	0.0028	mg/Kg	☼	08/02/17 07:00	08/02/17 13:17	1
Ethylbenzene	ND		0.0049	0.0021	mg/Kg	☼	08/02/17 07:00	08/02/17 13:17	1
Methylene Chloride	ND		0.0049	0.0023	mg/Kg	☼	08/02/17 07:00	08/02/17 13:17	1
Methyl tert-butyl ether	ND		0.0049	0.0036	mg/Kg	☼	08/02/17 07:00	08/02/17 13:17	1
n-Butylbenzene	ND		0.0049	0.0037	mg/Kg	☼	08/02/17 07:00	08/02/17 13:17	1
N-Propylbenzene	ND		0.0049	0.0021	mg/Kg	☼	08/02/17 07:00	08/02/17 13:17	1
sec-Butylbenzene	ND		0.0049	0.0024	mg/Kg	☼	08/02/17 07:00	08/02/17 13:17	1
tert-Butylbenzene	ND		0.0049	0.0018	mg/Kg	☼	08/02/17 07:00	08/02/17 13:17	1
Tetrachloroethene	ND		0.0049	0.0020	mg/Kg	☼	08/02/17 07:00	08/02/17 13:17	1
Toluene	ND		0.0049	0.0017	mg/Kg	☼	08/02/17 07:00	08/02/17 13:17	1
trans-1,2-Dichloroethene	ND		0.0049	0.0025	mg/Kg	☼	08/02/17 07:00	08/02/17 13:17	1
1,1,1-Trichloroethane	ND		0.0049	0.0025	mg/Kg	☼	08/02/17 07:00	08/02/17 13:17	1
Trichloroethene	ND		0.0049	0.0015	mg/Kg	☼	08/02/17 07:00	08/02/17 13:17	1
1,2,4-Trimethylbenzene	ND		0.0049	0.0013	mg/Kg	☼	08/02/17 07:00	08/02/17 13:17	1
1,3,5-Trimethylbenzene	ND		0.0049	0.0017	mg/Kg	☼	08/02/17 07:00	08/02/17 13:17	1
Vinyl chloride	ND		0.0049	0.0036	mg/Kg	☼	08/02/17 07:00	08/02/17 13:17	1
Xylenes, Total	ND		0.0099	0.0042	mg/Kg	☼	08/02/17 07:00	08/02/17 13:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*63 - 120*	*08/02/17 07:00*	*08/02/17 13:17*	*1*
Dibromofluoromethane (Surr)	*98*		*68 - 121*	*08/02/17 07:00*	*08/02/17 13:17*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*52 - 124*	*08/02/17 07:00*	*08/02/17 13:17*	*1*
Toluene-d8 (Surr)	*108*		*72 - 127*	*08/02/17 07:00*	*08/02/17 13:17*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**10.9**		0.1	0.1	%			08/01/17 13:27	1
Percent Solids	**89.1**		0.1	0.1	%			08/01/17 13:27	1

Client Sample ID: W1-b, S3, B 073117

Lab Sample ID: 180-68756-8
Date Collected: 07/31/17 10:50
Matrix: Solid
Date Received: 08/01/17 08:40
Percent Solids: 90.3

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.021	0.0034	mg/Kg	☼	08/02/17 07:00	08/02/17 13:40	1
Benzene	ND		0.0053	0.0021	mg/Kg	☼	08/02/17 07:00	08/02/17 13:40	1
2-Butanone (MEK)	ND		0.0053	0.0031	mg/Kg	☼	08/02/17 07:00	08/02/17 13:40	1
Carbon tetrachloride	ND		0.0053	0.0035	mg/Kg	☼	08/02/17 07:00	08/02/17 13:40	1
Chlorobenzene	ND		0.0053	0.0017	mg/Kg	☼	08/02/17 07:00	08/02/17 13:40	1
Chloroform	ND		0.0053	0.0023	mg/Kg	☼	08/02/17 07:00	08/02/17 13:40	1
cis-1,2-Dichloroethene	ND		0.0053	0.0017	mg/Kg	☼	08/02/17 07:00	08/02/17 13:40	1
1,2-Dichlorobenzene	ND		0.0053	0.0043	mg/Kg	☼	08/02/17 07:00	08/02/17 13:40	1
1,3-Dichlorobenzene	ND		0.0053	0.0017	mg/Kg	☼	08/02/17 07:00	08/02/17 13:40	1
1,4-Dichlorobenzene	ND		0.0053	0.0011	mg/Kg	☼	08/02/17 07:00	08/02/17 13:40	1
1,1-Dichloroethane	ND		0.0053	0.0019	mg/Kg	☼	08/02/17 07:00	08/02/17 13:40	1
1,2-Dichloroethane	ND		0.0053	0.0016	mg/Kg	☼	08/02/17 07:00	08/02/17 13:40	1
1,1-Dichloroethene	ND		0.0053	0.0030	mg/Kg	☼	08/02/17 07:00	08/02/17 13:40	1
Ethylbenzene	ND		0.0053	0.0023	mg/Kg	☼	08/02/17 07:00	08/02/17 13:40	1
Methylene Chloride	ND		0.0053	0.0025	mg/Kg	☼	08/02/17 07:00	08/02/17 13:40	1
Methyl tert-butyl ether	ND		0.0053	0.0039	mg/Kg	☼	08/02/17 07:00	08/02/17 13:40	1
n-Butylbenzene	ND		0.0053	0.0041	mg/Kg	☼	08/02/17 07:00	08/02/17 13:40	1
N-Propylbenzene	ND		0.0053	0.0023	mg/Kg	☼	08/02/17 07:00	08/02/17 13:40	1
sec-Butylbenzene	ND		0.0053	0.0026	mg/Kg	☼	08/02/17 07:00	08/02/17 13:40	1
tert-Butylbenzene	ND		0.0053	0.0020	mg/Kg	☼	08/02/17 07:00	08/02/17 13:40	1
Tetrachloroethene	ND		0.0053	0.0021	mg/Kg	☼	08/02/17 07:00	08/02/17 13:40	1
Toluene	ND		0.0053	0.0018	mg/Kg	☼	08/02/17 07:00	08/02/17 13:40	1
trans-1,2-Dichloroethene	ND		0.0053	0.0027	mg/Kg	☼	08/02/17 07:00	08/02/17 13:40	1
1,1,1-Trichloroethane	ND		0.0053	0.0027	mg/Kg	☼	08/02/17 07:00	08/02/17 13:40	1
Trichloroethene	ND		0.0053	0.0016	mg/Kg	☼	08/02/17 07:00	08/02/17 13:40	1
1,2,4-Trimethylbenzene	ND		0.0053	0.0014	mg/Kg	☼	08/02/17 07:00	08/02/17 13:40	1
1,3,5-Trimethylbenzene	ND		0.0053	0.0018	mg/Kg	☼	08/02/17 07:00	08/02/17 13:40	1
Vinyl chloride	ND		0.0053	0.0039	mg/Kg	☼	08/02/17 07:00	08/02/17 13:40	1
Xylenes, Total	ND		0.011	0.0046	mg/Kg	☼	08/02/17 07:00	08/02/17 13:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*63 - 120*	*08/02/17 07:00*	*08/02/17 13:40*	*1*
Dibromofluoromethane (Surr)	*98*		*68 - 121*	*08/02/17 07:00*	*08/02/17 13:40*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*52 - 124*	*08/02/17 07:00*	*08/02/17 13:40*	*1*
Toluene-d8 (Surr)	*110*		*72 - 127*	*08/02/17 07:00*	*08/02/17 13:40*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.7**		0.1	0.1	%			08/01/17 13:27	1
Percent Solids	**90.3**		0.1	0.1	%			08/01/17 13:27	1

Client Sample ID: W1-b, S3, C 073117

Lab Sample ID: 180-68756-9
Date Collected: 07/31/17 10:55
Matrix: Solid
Date Received: 08/01/17 08:40
Percent Solids: 89.6

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.011**	**J**	0.015	0.0050	mg/Kg	☼	08/01/17 12:15	08/03/17 19:15	2
Acenaphthylene	**0.13**		0.015	0.0050	mg/Kg	☼	08/01/17 12:15	08/03/17 19:15	2
Anthracene	**0.084**		0.015	0.0055	mg/Kg	☼	08/01/17 12:15	08/03/17 19:15	2

Client Sample ID: W1-b, S3, C 073117 **Lab Sample ID: 180-68756-9**
Date Collected: 07/31/17 10:55 **Matrix: Solid**
Date Received: 08/01/17 08:40 **Percent Solids: 89.6**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	**0.29**		0.015	0.0059	mg/Kg	☼	08/01/17 12:15	08/03/17 19:15	2
Benzo[a]pyrene	**0.29**		0.015	0.0061	mg/Kg	☼	08/01/17 12:15	08/03/17 19:15	2
Benzo[b]fluoranthene	**0.44**		0.015	0.0064	mg/Kg	☼	08/01/17 12:15	08/03/17 19:15	2
Benzo[g,h,i]perylene	**0.34**		0.015	0.0064	mg/Kg	☼	08/01/17 12:15	08/03/17 19:15	2
Benzo[k]fluoranthene	**0.15**		0.015	0.0051	mg/Kg	☼	08/01/17 12:15	08/03/17 19:15	2
Chrysene	**0.33**		0.015	0.0058	mg/Kg	☼	08/01/17 12:15	08/03/17 19:15	2
Dibenz(a,h)anthracene	**0.089**		0.015	0.0061	mg/Kg	☼	08/01/17 12:15	08/03/17 19:15	2
Dibenzofuran	**0.017**	**J**	0.073	0.0059	mg/Kg	☼	08/01/17 12:15	08/03/17 19:15	2
2,4-Dinitrotoluene	ND		73	9.8	ug/Kg	☼	08/01/17 12:15	08/03/17 19:15	2
1,4-Dioxane	ND		0.15	0.011	mg/Kg	☼	08/01/17 12:15	08/03/17 19:15	2
Fluoranthene	**0.52**		0.015	0.0058	mg/Kg	☼	08/01/17 12:15	08/03/17 19:15	2
Fluorene	**0.018**		0.015	0.0053	mg/Kg	☼	08/01/17 12:15	08/03/17 19:15	2
Hexachlorobenzene	ND		0.015	0.0059	mg/Kg	☼	08/01/17 12:15	08/03/17 19:15	2
Hexachlorobutadiene	ND		15	4.7	ug/Kg	☼	08/01/17 12:15	08/03/17 19:15	2
Hexachloroethane	ND		73	5.3	ug/Kg	☼	08/01/17 12:15	08/03/17 19:15	2
Indeno[1,2,3-cd]pyrene	**0.27**		0.015	0.0057	mg/Kg	☼	08/01/17 12:15	08/03/17 19:15	2
2-Methylphenol	ND		0.073	0.0065	mg/Kg	☼	08/01/17 12:15	08/03/17 19:15	2
Methylphenol, 3 & 4	ND		0.073	0.0065	mg/Kg	☼	08/01/17 12:15	08/03/17 19:15	2
Naphthalene	**0.066**		0.015	0.0053	mg/Kg	☼	08/01/17 12:15	08/03/17 19:15	2
Nitrobenzene	ND		150	5.6	ug/Kg	☼	08/01/17 12:15	08/03/17 19:15	2
Pentachlorophenol	ND		0.38	0.14	mg/Kg	☼	08/01/17 12:15	08/03/17 19:15	2
Phenanthrene	**0.18**		0.015	0.0062	mg/Kg	☼	08/01/17 12:15	08/03/17 19:15	2
Phenol	ND		0.073	0.010	mg/Kg	☼	08/01/17 12:15	08/03/17 19:15	2
Pyrene	**0.46**		0.015	0.0066	mg/Kg	☼	08/01/17 12:15	08/03/17 19:15	2
Pyridine	ND		73	7.1	ug/Kg	☼	08/01/17 12:15	08/03/17 19:15	2
2,4,5-Trichlorophenol	ND		73	7.0	ug/Kg	☼	08/01/17 12:15	08/03/17 19:15	2
2,4,6-Trichlorophenol	ND		73	6.5	ug/Kg	☼	08/01/17 12:15	08/03/17 19:15	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*83*		*42 - 100*	*08/01/17 12:15*	*08/03/17 19:15*	*2*
2-Fluorophenol (Surr)	*91*		*21 - 107*	*08/01/17 12:15*	*08/03/17 19:15*	*2*
Nitrobenzene-d5 (Surr)	*87*		*35 - 109*	*08/01/17 12:15*	*08/03/17 19:15*	*2*
Phenol-d5 (Surr)	*96*		*29 - 105*	*08/01/17 12:15*	*08/03/17 19:15*	*2*
Terphenyl-d14 (Surr)	*84*		*36 - 113*	*08/01/17 12:15*	*08/03/17 19:15*	*2*
2,4,6-Tribromophenol (Surr)	*87*		*20 - 134*	*08/01/17 12:15*	*08/03/17 19:15*	*2*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.018	0.0098	mg/Kg	☼	08/01/17 12:15	08/02/17 14:39	1
PCB-1221	ND		0.018	0.0096	mg/Kg	☼	08/01/17 12:15	08/02/17 14:39	1
PCB-1232	ND		0.018	0.0073	mg/Kg	☼	08/01/17 12:15	08/02/17 14:39	1
PCB-1242	ND		0.018	0.015	mg/Kg	☼	08/01/17 12:15	08/02/17 14:39	1
PCB-1248	**0.83**		0.018	0.0088	mg/Kg	☼	08/01/17 12:15	08/02/17 14:39	1
PCB-1254	**0.60**		0.018	0.0081	mg/Kg	☼	08/01/17 12:15	08/02/17 14:39	1
PCB-1260	**0.14**		0.018	0.012	mg/Kg	☼	08/01/17 12:15	08/02/17 14:39	1
PCB-1262	ND		0.018	0.013	mg/Kg	☼	08/01/17 12:15	08/02/17 14:39	1
PCB-1268	ND		0.018	0.0056	mg/Kg	☼	08/01/17 12:15	08/02/17 14:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*93*		*23 - 150*	*08/01/17 12:15*	*08/02/17 14:39*	*1*

Client Sample ID: W1-b, S3, C 073117 — Lab Sample ID: 180-68756-9

Date Collected: 07/31/17 10:55 — **Matrix: Solid**
Date Received: 08/01/17 08:40 — **Percent Solids: 89.6**

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*97*		*23 - 150*	*08/01/17 12:15*	*08/02/17 14:39*	*1*
Tetrachloro-m-xylene (Surr)	*100*		*27 - 138*	*08/01/17 12:15*	*08/02/17 14:39*	*1*
Tetrachloro-m-xylene (Surr)	*84*		*27 - 138*	*08/01/17 12:15*	*08/02/17 14:39*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**8.1**		1.2	0.52	mg/Kg	☼	08/02/17 11:34	08/03/17 11:41	1
Barium	**84**		23	6.3	mg/Kg	☼	08/02/17 11:34	08/03/17 11:41	1
Beryllium	**0.45**	**J**	0.47	0.12	mg/Kg	☼	08/02/17 11:34	08/03/17 11:41	1
Cadmium	ND		0.59	0.13	mg/Kg	☼	08/02/17 11:34	08/03/17 11:41	1
Chromium	**12**		0.59	0.15	mg/Kg	☼	08/02/17 11:34	08/03/17 11:41	1
Copper	**27**		2.9	0.90	mg/Kg	☼	08/02/17 11:34	08/03/17 11:41	1
Lead	**39**		1.2	0.39	mg/Kg	☼	08/02/17 11:34	08/03/17 11:41	1
Manganese	**460**		1.8	0.48	mg/Kg	☼	08/02/17 11:34	08/03/17 11:41	1
Nickel	**21**		4.7	1.1	mg/Kg	☼	08/02/17 11:34	08/03/17 11:41	1
Selenium	ND		1.2	0.47	mg/Kg	☼	08/02/17 11:34	08/03/17 11:41	1
Silver	ND		0.59	0.19	mg/Kg	☼	08/02/17 11:34	08/03/17 11:41	1
Zinc	**71**		2.3	1.2	mg/Kg	☼	08/02/17 11:34	08/03/17 11:41	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.081**		0.037	0.0084	mg/Kg	☼	08/01/17 13:50	08/02/17 07:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**10.4**		0.1	0.1	%			08/01/17 13:27	1
Percent Solids	**89.6**		0.1	0.1	%			08/01/17 13:27	1
Cyanide, Total	ND		0.55	0.17	mg/Kg	☼	08/02/17 13:35	08/03/17 11:38	1

Client Sample ID: W1-b, S4, A 073117 — Lab Sample ID: 180-68756-10

Date Collected: 07/31/17 11:00 — **Matrix: Solid**
Date Received: 08/01/17 08:40 — **Percent Solids: 88.1**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.019	0.0030	mg/Kg	☼	08/02/17 07:00	08/02/17 14:02	1
Benzene	ND		0.0047	0.0018	mg/Kg	☼	08/02/17 07:00	08/02/17 14:02	1
2-Butanone (MEK)	ND		0.0047	0.0027	mg/Kg	☼	08/02/17 07:00	08/02/17 14:02	1
Carbon tetrachloride	ND		0.0047	0.0031	mg/Kg	☼	08/02/17 07:00	08/02/17 14:02	1
Chlorobenzene	ND		0.0047	0.0015	mg/Kg	☼	08/02/17 07:00	08/02/17 14:02	1
Chloroform	ND		0.0047	0.0020	mg/Kg	☼	08/02/17 07:00	08/02/17 14:02	1
cis-1,2-Dichloroethene	ND		0.0047	0.0015	mg/Kg	☼	08/02/17 07:00	08/02/17 14:02	1
1,2-Dichlorobenzene	ND		0.0047	0.0038	mg/Kg	☼	08/02/17 07:00	08/02/17 14:02	1
1,3-Dichlorobenzene	ND		0.0047	0.0015	mg/Kg	☼	08/02/17 07:00	08/02/17 14:02	1
1,4-Dichlorobenzene	ND		0.0047	0.00096	mg/Kg	☼	08/02/17 07:00	08/02/17 14:02	1
1,1-Dichloroethane	ND		0.0047	0.0017	mg/Kg	☼	08/02/17 07:00	08/02/17 14:02	1
1,2-Dichloroethane	ND		0.0047	0.0014	mg/Kg	☼	08/02/17 07:00	08/02/17 14:02	1
1,1-Dichloroethene	ND		0.0047	0.0027	mg/Kg	☼	08/02/17 07:00	08/02/17 14:02	1
Ethylbenzene	ND		0.0047	0.0020	mg/Kg	☼	08/02/17 07:00	08/02/17 14:02	1
Methylene Chloride	ND		0.0047	0.0022	mg/Kg	☼	08/02/17 07:00	08/02/17 14:02	1

Client Sample ID: W1-b, S4, A 073117 — Lab Sample ID: 180-68756-10

Date Collected: 07/31/17 11:00 — **Matrix: Solid**
Date Received: 08/01/17 08:40 — **Percent Solids: 88.1**

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.0047	0.0035	mg/Kg	☼	08/02/17 07:00	08/02/17 14:02	1
n-Butylbenzene	ND		0.0047	0.0036	mg/Kg	☼	08/02/17 07:00	08/02/17 14:02	1
N-Propylbenzene	ND		0.0047	0.0020	mg/Kg	☼	08/02/17 07:00	08/02/17 14:02	1
sec-Butylbenzene	ND		0.0047	0.0023	mg/Kg	☼	08/02/17 07:00	08/02/17 14:02	1
tert-Butylbenzene	ND		0.0047	0.0017	mg/Kg	☼	08/02/17 07:00	08/02/17 14:02	1
Tetrachloroethene	ND		0.0047	0.0019	mg/Kg	☼	08/02/17 07:00	08/02/17 14:02	1
Toluene	ND		0.0047	0.0016	mg/Kg	☼	08/02/17 07:00	08/02/17 14:02	1
trans-1,2-Dichloroethene	ND		0.0047	0.0024	mg/Kg	☼	08/02/17 07:00	08/02/17 14:02	1
1,1,1-Trichloroethane	ND		0.0047	0.0024	mg/Kg	☼	08/02/17 07:00	08/02/17 14:02	1
Trichloroethene	ND		0.0047	0.0014	mg/Kg	☼	08/02/17 07:00	08/02/17 14:02	1
1,2,4-Trimethylbenzene	ND		0.0047	0.0013	mg/Kg	☼	08/02/17 07:00	08/02/17 14:02	1
1,3,5-Trimethylbenzene	ND		0.0047	0.0016	mg/Kg	☼	08/02/17 07:00	08/02/17 14:02	1
Vinyl chloride	ND		0.0047	0.0034	mg/Kg	☼	08/02/17 07:00	08/02/17 14:02	1
Xylenes, Total	ND		0.0094	0.0040	mg/Kg	☼	08/02/17 07:00	08/02/17 14:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*63 - 120*	*08/02/17 07:00*	*08/02/17 14:02*	*1*
Dibromofluoromethane (Surr)	*94*		*68 - 121*	*08/02/17 07:00*	*08/02/17 14:02*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*52 - 124*	*08/02/17 07:00*	*08/02/17 14:02*	*1*
Toluene-d8 (Surr)	*104*		*72 - 127*	*08/02/17 07:00*	*08/02/17 14:02*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**11.9**		0.1	0.1	%			08/01/17 13:27	1
Percent Solids	**88.1**		0.1	0.1	%			08/01/17 13:27	1

Client Sample ID: W1-b, S4, B 073117 — Lab Sample ID: 180-68756-11

Date Collected: 07/31/17 11:10 — **Matrix: Solid**
Date Received: 08/01/17 08:40 — **Percent Solids: 90.8**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.030	0.0047	mg/Kg	☼	08/02/17 07:00	08/02/17 14:24	1
Benzene	ND		0.0075	0.0030	mg/Kg	☼	08/02/17 07:00	08/02/17 14:24	1
2-Butanone (MEK)	ND		0.0075	0.0044	mg/Kg	☼	08/02/17 07:00	08/02/17 14:24	1
Carbon tetrachloride	ND		0.0075	0.0050	mg/Kg	☼	08/02/17 07:00	08/02/17 14:24	1
Chlorobenzene	ND		0.0075	0.0024	mg/Kg	☼	08/02/17 07:00	08/02/17 14:24	1
Chloroform	ND		0.0075	0.0032	mg/Kg	☼	08/02/17 07:00	08/02/17 14:24	1
cis-1,2-Dichloroethene	ND		0.0075	0.0024	mg/Kg	☼	08/02/17 07:00	08/02/17 14:24	1
1,2-Dichlorobenzene	ND		0.0075	0.0061	mg/Kg	☼	08/02/17 07:00	08/02/17 14:24	1
1,3-Dichlorobenzene	ND		0.0075	0.0024	mg/Kg	☼	08/02/17 07:00	08/02/17 14:24	1
1,4-Dichlorobenzene	ND		0.0075	0.0015	mg/Kg	☼	08/02/17 07:00	08/02/17 14:24	1
1,1-Dichloroethane	ND		0.0075	0.0027	mg/Kg	☼	08/02/17 07:00	08/02/17 14:24	1
1,2-Dichloroethane	ND		0.0075	0.0022	mg/Kg	☼	08/02/17 07:00	08/02/17 14:24	1
1,1-Dichloroethene	ND		0.0075	0.0043	mg/Kg	☼	08/02/17 07:00	08/02/17 14:24	1
Ethylbenzene	ND		0.0075	0.0032	mg/Kg	☼	08/02/17 07:00	08/02/17 14:24	1
Methylene Chloride	ND		0.0075	0.0036	mg/Kg	☼	08/02/17 07:00	08/02/17 14:24	1
Methyl tert-butyl ether	ND		0.0075	0.0055	mg/Kg	☼	08/02/17 07:00	08/02/17 14:24	1
n-Butylbenzene	ND		0.0075	0.0057	mg/Kg	☼	08/02/17 07:00	08/02/17 14:24	1
N-Propylbenzene	ND		0.0075	0.0032	mg/Kg	☼	08/02/17 07:00	08/02/17 14:24	1

Client Sample ID: W1-b, S4, B 073117 — Lab Sample ID: 180-68756-11

Date Collected: 07/31/17 11:10 — **Matrix: Solid**
Date Received: 08/01/17 08:40 — **Percent Solids: 90.8**

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		0.0075	0.0037	mg/Kg	☼	08/02/17 07:00	08/02/17 14:24	1
tert-Butylbenzene	ND		0.0075	0.0028	mg/Kg	☼	08/02/17 07:00	08/02/17 14:24	1
Tetrachloroethene	ND		0.0075	0.0030	mg/Kg	☼	08/02/17 07:00	08/02/17 14:24	1
Toluene	ND		0.0075	0.0025	mg/Kg	☼	08/02/17 07:00	08/02/17 14:24	1
trans-1,2-Dichloroethene	ND		0.0075	0.0038	mg/Kg	☼	08/02/17 07:00	08/02/17 14:24	1
1,1,1-Trichloroethane	ND		0.0075	0.0038	mg/Kg	☼	08/02/17 07:00	08/02/17 14:24	1
Trichloroethene	ND		0.0075	0.0023	mg/Kg	☼	08/02/17 07:00	08/02/17 14:24	1
1,2,4-Trimethylbenzene	ND		0.0075	0.0020	mg/Kg	☼	08/02/17 07:00	08/02/17 14:24	1
1,3,5-Trimethylbenzene	ND		0.0075	0.0026	mg/Kg	☼	08/02/17 07:00	08/02/17 14:24	1
Vinyl chloride	ND		0.0075	0.0055	mg/Kg	☼	08/02/17 07:00	08/02/17 14:24	1
Xylenes, Total	ND		0.015	0.0065	mg/Kg	☼	08/02/17 07:00	08/02/17 14:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*63 - 120*	*08/02/17 07:00*	*08/02/17 14:24*	*1*
Dibromofluoromethane (Surr)	*97*		*68 - 121*	*08/02/17 07:00*	*08/02/17 14:24*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*52 - 124*	*08/02/17 07:00*	*08/02/17 14:24*	*1*
Toluene-d8 (Surr)	*109*		*72 - 127*	*08/02/17 07:00*	*08/02/17 14:24*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.2**		0.1	0.1	%			08/01/17 13:27	1
Percent Solids	**90.8**		0.1	0.1	%			08/01/17 13:27	1

Client Sample ID: W1-b, S4, C 073117 — Lab Sample ID: 180-68756-12

Date Collected: 07/31/17 11:15 — **Matrix: Solid**
Date Received: 08/01/17 08:40 — **Percent Solids: 89.8**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.030**	**J**	0.037	0.012	mg/Kg	☼	08/01/17 12:15	08/03/17 19:43	5
Acenaphthylene	**0.49**		0.037	0.013	mg/Kg	☼	08/01/17 12:15	08/03/17 19:43	5
Anthracene	**0.28**		0.037	0.014	mg/Kg	☼	08/01/17 12:15	08/03/17 19:43	5
Benzo[a]anthracene	**1.2**		0.037	0.015	mg/Kg	☼	08/01/17 12:15	08/03/17 19:43	5
Benzo[a]pyrene	**1.1**		0.037	0.015	mg/Kg	☼	08/01/17 12:15	08/03/17 19:43	5
Benzo[b]fluoranthene	**1.3**		0.037	0.016	mg/Kg	☼	08/01/17 12:15	08/03/17 19:43	5
Benzo[g,h,i]perylene	**1.0**		0.037	0.016	mg/Kg	☼	08/01/17 12:15	08/03/17 19:43	5
Benzo[k]fluoranthene	**0.63**		0.037	0.013	mg/Kg	☼	08/01/17 12:15	08/03/17 19:43	5
Chrysene	**1.3**		0.037	0.014	mg/Kg	☼	08/01/17 12:15	08/03/17 19:43	5
Dibenz(a,h)anthracene	**0.29**		0.037	0.015	mg/Kg	☼	08/01/17 12:15	08/03/17 19:43	5
Dibenzofuran	**0.026**	**J**	0.18	0.015	mg/Kg	☼	08/01/17 12:15	08/03/17 19:43	5
2,4-Dinitrotoluene	ND		180	24	ug/Kg	☼	08/01/17 12:15	08/03/17 19:43	5
1,4-Dioxane	ND		0.37	0.028	mg/Kg	☼	08/01/17 12:15	08/03/17 19:43	5
Fluoranthene	**1.9**		0.037	0.015	mg/Kg	☼	08/01/17 12:15	08/03/17 19:43	5
Fluorene	**0.055**		0.037	0.013	mg/Kg	☼	08/01/17 12:15	08/03/17 19:43	5
Hexachlorobenzene	ND		0.037	0.015	mg/Kg	☼	08/01/17 12:15	08/03/17 19:43	5
Hexachlorobutadiene	ND		37	12	ug/Kg	☼	08/01/17 12:15	08/03/17 19:43	5
Hexachloroethane	ND		180	13	ug/Kg	☼	08/01/17 12:15	08/03/17 19:43	5
Indeno[1,2,3-cd]pyrene	**0.87**		0.037	0.014	mg/Kg	☼	08/01/17 12:15	08/03/17 19:43	5
2-Methylphenol	ND		0.18	0.016	mg/Kg	☼	08/01/17 12:15	08/03/17 19:43	5
Methylphenol, 3 & 4	ND		0.18	0.016	mg/Kg	☼	08/01/17 12:15	08/03/17 19:43	5

Client Sample ID: W1-b, S4, C 073117 **Lab Sample ID: 180-68756-12**
Date Collected: 07/31/17 11:15 **Matrix: Solid**
Date Received: 08/01/17 08:40 **Percent Solids: 89.8**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**0.10**		0.037	0.013	mg/Kg	☼	08/01/17 12:15	08/03/17 19:43	5
Nitrobenzene	ND		370	14	ug/Kg	☼	08/01/17 12:15	08/03/17 19:43	5
Pentachlorophenol	ND		0.94	0.35	mg/Kg	☼	08/01/17 12:15	08/03/17 19:43	5
Phenanthrene	**0.48**		0.037	0.015	mg/Kg	☼	08/01/17 12:15	08/03/17 19:43	5
Phenol	ND		0.18	0.025	mg/Kg	☼	08/01/17 12:15	08/03/17 19:43	5
Pyrene	**1.8**		0.037	0.016	mg/Kg	☼	08/01/17 12:15	08/03/17 19:43	5
Pyridine	ND		180	18	ug/Kg	☼	08/01/17 12:15	08/03/17 19:43	5
2,4,5-Trichlorophenol	ND		180	18	ug/Kg	☼	08/01/17 12:15	08/03/17 19:43	5
2,4,6-Trichlorophenol	ND		180	16	ug/Kg	☼	08/01/17 12:15	08/03/17 19:43	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*96*		*42 - 100*	*08/01/17 12:15*	*08/03/17 19:43*	*5*
2-Fluorophenol (Surr)	*94*		*21 - 107*	*08/01/17 12:15*	*08/03/17 19:43*	*5*
Nitrobenzene-d5 (Surr)	*96*		*35 - 109*	*08/01/17 12:15*	*08/03/17 19:43*	*5*
Phenol-d5 (Surr)	*100*		*29 - 105*	*08/01/17 12:15*	*08/03/17 19:43*	*5*
Terphenyl-d14 (Surr)	*97*		*36 - 113*	*08/01/17 12:15*	*08/03/17 19:43*	*5*
2,4,6-Tribromophenol (Surr)	*105*		*20 - 134*	*08/01/17 12:15*	*08/03/17 19:43*	*5*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.019	0.0098	mg/Kg	☼	08/01/17 12:15	08/02/17 14:59	1
PCB-1221	ND		0.019	0.0096	mg/Kg	☼	08/01/17 12:15	08/02/17 14:59	1
PCB-1232	ND		0.019	0.0073	mg/Kg	☼	08/01/17 12:15	08/02/17 14:59	1
PCB-1242	ND		0.019	0.015	mg/Kg	☼	08/01/17 12:15	08/02/17 14:59	1
PCB-1248	**1.0**		0.019	0.0089	mg/Kg	☼	08/01/17 12:15	08/02/17 14:59	1
PCB-1254	**0.65**		0.019	0.0081	mg/Kg	☼	08/01/17 12:15	08/02/17 14:59	1
PCB-1260	**0.15**		0.019	0.012	mg/Kg	☼	08/01/17 12:15	08/02/17 14:59	1
PCB-1262	ND		0.019	0.013	mg/Kg	☼	08/01/17 12:15	08/02/17 14:59	1
PCB-1268	ND		0.019	0.0057	mg/Kg	☼	08/01/17 12:15	08/02/17 14:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*92*		*23 - 150*	*08/01/17 12:15*	*08/02/17 14:59*	*1*
DCB Decachlorobiphenyl (Surr)	*94*		*23 - 150*	*08/01/17 12:15*	*08/02/17 14:59*	*1*
Tetrachloro-m-xylene (Surr)	*101*		*27 - 138*	*08/01/17 12:15*	*08/02/17 14:59*	*1*
Tetrachloro-m-xylene (Surr)	*86*		*27 - 138*	*08/01/17 12:15*	*08/02/17 14:59*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**7.9**		1.1	0.50	mg/Kg	☼	08/02/17 11:34	08/03/17 11:46	1
Barium	**84**		22	6.0	mg/Kg	☼	08/02/17 11:34	08/03/17 11:46	1
Beryllium	**0.40**	**J**	0.45	0.12	mg/Kg	☼	08/02/17 11:34	08/03/17 11:46	1
Cadmium	ND		0.56	0.13	mg/Kg	☼	08/02/17 11:34	08/03/17 11:46	1
Chromium	**11**		0.56	0.15	mg/Kg	☼	08/02/17 11:34	08/03/17 11:46	1
Copper	**28**		2.8	0.86	mg/Kg	☼	08/02/17 11:34	08/03/17 11:46	1
Lead	**39**		1.1	0.37	mg/Kg	☼	08/02/17 11:34	08/03/17 11:46	1
Manganese	**450**		1.7	0.46	mg/Kg	☼	08/02/17 11:34	08/03/17 11:46	1
Nickel	**21**		4.5	1.0	mg/Kg	☼	08/02/17 11:34	08/03/17 11:46	1
Selenium	ND		1.1	0.45	mg/Kg	☼	08/02/17 11:34	08/03/17 11:46	1
Silver	ND		0.56	0.19	mg/Kg	☼	08/02/17 11:34	08/03/17 11:46	1
Zinc	**91**		2.2	1.1	mg/Kg	☼	08/02/17 11:34	08/03/17 11:46	1

Client Sample ID: W1-b, S4, C 073117

Lab Sample ID: 180-68756-12
Date Collected: 07/31/17 11:15
Matrix: Solid
Date Received: 08/01/17 08:40
Percent Solids: 89.8

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.067**		0.033	0.0074	mg/Kg	☼	08/01/17 13:50	08/02/17 07:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**10.2**		0.1	0.1	%			08/01/17 13:27	1
Percent Solids	**89.8**		0.1	0.1	%			08/01/17 13:27	1
Cyanide, Total	ND		0.54	0.16	mg/Kg	☼	08/02/17 13:35	08/03/17 11:39	1

Client Sample ID: TRIP BLANK #1

Lab Sample ID: 180-68756-17
Date Collected: 07/31/17 00:00
Matrix: Water
Date Received: 08/01/17 08:40

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**3.3**	**J**	5.0	3.1	ug/L			08/02/17 04:34	1
Benzene	ND		1.0	0.18	ug/L			08/02/17 04:34	1
2-Butanone (MEK)	ND		5.0	2.6	ug/L			08/02/17 04:34	1
Carbon tetrachloride	ND		1.0	0.56	ug/L			08/02/17 04:34	1
Chlorobenzene	ND		1.0	0.15	ug/L			08/02/17 04:34	1
Chloroform	ND		1.0	0.27	ug/L			08/02/17 04:34	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			08/02/17 04:34	1
1,2-Dichlorobenzene	ND		1.0	0.23	ug/L			08/02/17 04:34	1
1,3-Dichlorobenzene	ND		1.0	0.21	ug/L			08/02/17 04:34	1
1,4-Dichlorobenzene	ND		1.0	0.24	ug/L			08/02/17 04:34	1
1,1-Dichloroethane	ND		1.0	0.34	ug/L			08/02/17 04:34	1
1,2-Dichloroethane	ND		1.0	0.24	ug/L			08/02/17 04:34	1
1,1-Dichloroethene	ND		1.0	0.32	ug/L			08/02/17 04:34	1
Ethylbenzene	ND		1.0	0.25	ug/L			08/02/17 04:34	1
Methylene Chloride	ND		1.0	0.94	ug/L			08/02/17 04:34	1
Methyl tert-butyl ether	ND		1.0	0.20	ug/L			08/02/17 04:34	1
n-Butylbenzene	ND		1.0	0.22	ug/L			08/02/17 04:34	1
N-Propylbenzene	ND		1.0	0.20	ug/L			08/02/17 04:34	1
sec-Butylbenzene	ND		1.0	0.22	ug/L			08/02/17 04:34	1
tert-Butylbenzene	ND		1.0	0.17	ug/L			08/02/17 04:34	1
Tetrachloroethene	ND		1.0	0.24	ug/L			08/02/17 04:34	1
Toluene	**0.21**	**J**	1.0	0.16	ug/L			08/02/17 04:34	1
trans-1,2-Dichloroethene	ND		1.0	0.20	ug/L			08/02/17 04:34	1
1,1,1-Trichloroethane	ND		1.0	0.27	ug/L			08/02/17 04:34	1
Trichloroethene	ND		1.0	0.20	ug/L			08/02/17 04:34	1
1,2,4-Trimethylbenzene	ND		1.0	0.18	ug/L			08/02/17 04:34	1
1,3,5-Trimethylbenzene	ND		1.0	0.17	ug/L			08/02/17 04:34	1
Vinyl chloride	ND		1.0	0.17	ug/L			08/02/17 04:34	1
Xylenes, Total	ND		2.0	0.27	ug/L			08/02/17 04:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*72 - 120*		*08/02/17 04:34*	*1*
Dibromofluoromethane (Surr)	*97*		*77 - 127*		*08/02/17 04:34*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*72 - 134*		*08/02/17 04:34*	*1*
Toluene-d8 (Surr)	*89*		*80 - 120*		*08/02/17 04:34*	*1*

Client Sample ID: DUP 20
Date Collected: 07/31/17 00:00
Date Received: 08/01/17 08:40

Lab Sample ID: 180-68756-18
Matrix: Solid
Percent Solids: 88.3

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.019	0.0031	mg/Kg	☼	08/02/17 07:00	08/02/17 14:47	1
Benzene	ND		0.0049	0.0019	mg/Kg	☼	08/02/17 07:00	08/02/17 14:47	1
2-Butanone (MEK)	ND		0.0049	0.0028	mg/Kg	☼	08/02/17 07:00	08/02/17 14:47	1
Carbon tetrachloride	ND		0.0049	0.0032	mg/Kg	☼	08/02/17 07:00	08/02/17 14:47	1
Chlorobenzene	ND		0.0049	0.0015	mg/Kg	☼	08/02/17 07:00	08/02/17 14:47	1
Chloroform	ND		0.0049	0.0021	mg/Kg	☼	08/02/17 07:00	08/02/17 14:47	1
cis-1,2-Dichloroethene	ND		0.0049	0.0015	mg/Kg	☼	08/02/17 07:00	08/02/17 14:47	1
1,2-Dichlorobenzene	ND		0.0049	0.0039	mg/Kg	☼	08/02/17 07:00	08/02/17 14:47	1
1,3-Dichlorobenzene	ND		0.0049	0.0016	mg/Kg	☼	08/02/17 07:00	08/02/17 14:47	1
1,4-Dichlorobenzene	ND		0.0049	0.00099	mg/Kg	☼	08/02/17 07:00	08/02/17 14:47	1
1,1-Dichloroethane	ND		0.0049	0.0018	mg/Kg	☼	08/02/17 07:00	08/02/17 14:47	1
1,2-Dichloroethane	ND		0.0049	0.0014	mg/Kg	☼	08/02/17 07:00	08/02/17 14:47	1
1,1-Dichloroethene	ND		0.0049	0.0028	mg/Kg	☼	08/02/17 07:00	08/02/17 14:47	1
Ethylbenzene	ND		0.0049	0.0021	mg/Kg	☼	08/02/17 07:00	08/02/17 14:47	1
Methylene Chloride	ND		0.0049	0.0023	mg/Kg	☼	08/02/17 07:00	08/02/17 14:47	1
Methyl tert-butyl ether	ND		0.0049	0.0036	mg/Kg	☼	08/02/17 07:00	08/02/17 14:47	1
n-Butylbenzene	ND		0.0049	0.0037	mg/Kg	☼	08/02/17 07:00	08/02/17 14:47	1
N-Propylbenzene	ND		0.0049	0.0021	mg/Kg	☼	08/02/17 07:00	08/02/17 14:47	1
sec-Butylbenzene	ND		0.0049	0.0024	mg/Kg	☼	08/02/17 07:00	08/02/17 14:47	1
tert-Butylbenzene	ND		0.0049	0.0018	mg/Kg	☼	08/02/17 07:00	08/02/17 14:47	1
Tetrachloroethene	ND		0.0049	0.0020	mg/Kg	☼	08/02/17 07:00	08/02/17 14:47	1
Toluene	ND		0.0049	0.0016	mg/Kg	☼	08/02/17 07:00	08/02/17 14:47	1
trans-1,2-Dichloroethene	ND		0.0049	0.0025	mg/Kg	☼	08/02/17 07:00	08/02/17 14:47	1
1,1,1-Trichloroethane	ND		0.0049	0.0024	mg/Kg	☼	08/02/17 07:00	08/02/17 14:47	1
Trichloroethene	ND		0.0049	0.0015	mg/Kg	☼	08/02/17 07:00	08/02/17 14:47	1
1,2,4-Trimethylbenzene	ND		0.0049	0.0013	mg/Kg	☼	08/02/17 07:00	08/02/17 14:47	1
1,3,5-Trimethylbenzene	ND		0.0049	0.0017	mg/Kg	☼	08/02/17 07:00	08/02/17 14:47	1
Vinyl chloride	ND		0.0049	0.0036	mg/Kg	☼	08/02/17 07:00	08/02/17 14:47	1
Xylenes, Total	ND		0.0097	0.0042	mg/Kg	☼	08/02/17 07:00	08/02/17 14:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*63 - 120*	*08/02/17 07:00*	*08/02/17 14:47*	*1*
Dibromofluoromethane (Surr)	*98*		*68 - 121*	*08/02/17 07:00*	*08/02/17 14:47*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*52 - 124*	*08/02/17 07:00*	*08/02/17 14:47*	*1*
Toluene-d8 (Surr)	*111*		*72 - 127*	*08/02/17 07:00*	*08/02/17 14:47*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**11.7**		0.1	0.1	%			08/01/17 13:27	1
Percent Solids	**88.3**		0.1	0.1	%			08/01/17 13:27	1

Method: 8260C - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 180-218804/5
Matrix: Water
Analysis Batch: 218804

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		5.0	3.1	ug/L			08/02/17 04:10	1
Benzene	ND		1.0	0.18	ug/L			08/02/17 04:10	1
2-Butanone (MEK)	ND		5.0	2.6	ug/L			08/02/17 04:10	1
Carbon tetrachloride	ND		1.0	0.56	ug/L			08/02/17 04:10	1
Chlorobenzene	ND		1.0	0.15	ug/L			08/02/17 04:10	1
Chloroform	ND		1.0	0.27	ug/L			08/02/17 04:10	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			08/02/17 04:10	1
1,2-Dichlorobenzene	ND		1.0	0.23	ug/L			08/02/17 04:10	1
1,3-Dichlorobenzene	ND		1.0	0.21	ug/L			08/02/17 04:10	1
1,4-Dichlorobenzene	ND		1.0	0.24	ug/L			08/02/17 04:10	1
1,1-Dichloroethane	ND		1.0	0.34	ug/L			08/02/17 04:10	1
1,2-Dichloroethane	ND		1.0	0.24	ug/L			08/02/17 04:10	1
1,1-Dichloroethene	ND		1.0	0.32	ug/L			08/02/17 04:10	1
Ethylbenzene	ND		1.0	0.25	ug/L			08/02/17 04:10	1
Methylene Chloride	ND		1.0	0.94	ug/L			08/02/17 04:10	1
Methyl tert-butyl ether	ND		1.0	0.20	ug/L			08/02/17 04:10	1
n-Butylbenzene	ND		1.0	0.22	ug/L			08/02/17 04:10	1
N-Propylbenzene	ND		1.0	0.20	ug/L			08/02/17 04:10	1
sec-Butylbenzene	ND		1.0	0.22	ug/L			08/02/17 04:10	1
tert-Butylbenzene	ND		1.0	0.17	ug/L			08/02/17 04:10	1
Tetrachloroethene	ND		1.0	0.24	ug/L			08/02/17 04:10	1
Toluene	ND		1.0	0.16	ug/L			08/02/17 04:10	1
trans-1,2-Dichloroethene	ND		1.0	0.20	ug/L			08/02/17 04:10	1
1,1,1-Trichloroethane	ND		1.0	0.27	ug/L			08/02/17 04:10	1
Trichloroethene	ND		1.0	0.20	ug/L			08/02/17 04:10	1
1,2,4-Trimethylbenzene	ND		1.0	0.18	ug/L			08/02/17 04:10	1
1,3,5-Trimethylbenzene	ND		1.0	0.17	ug/L			08/02/17 04:10	1
Vinyl chloride	ND		1.0	0.17	ug/L			08/02/17 04:10	1
Xylenes, Total	ND		2.0	0.27	ug/L			08/02/17 04:10	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*72 - 120*		*08/02/17 04:10*	*1*
Dibromofluoromethane (Surr)	*95*		*77 - 127*		*08/02/17 04:10*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*72 - 134*		*08/02/17 04:10*	*1*
Toluene-d8 (Surr)	*89*		*80 - 120*		*08/02/17 04:10*	*1*

Lab Sample ID: LCS 180-218804/3
Matrix: Water
Analysis Batch: 218804

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	20.0	18.1		ug/L		90	10 - 150
Benzene	10.0	9.23		ug/L		92	80 - 121
2-Butanone (MEK)	20.0	16.6		ug/L		83	41 - 150
Carbon tetrachloride	10.0	9.33		ug/L		93	59 - 145
Chlorobenzene	10.0	9.20		ug/L		92	80 - 120
Chloroform	10.0	8.83		ug/L		88	78 - 122
cis-1,2-Dichloroethene	10.0	8.68		ug/L		87	80 - 120

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 180-218804/3
Matrix: Water
Analysis Batch: 218804

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichlorobenzene	10.0	9.01		ug/L		90	80 - 120
1,3-Dichlorobenzene	10.0	9.21		ug/L		92	80 - 120
1,4-Dichlorobenzene	10.0	9.10		ug/L		91	80 - 120
1,1-Dichloroethane	10.0	8.94		ug/L		89	76 - 126
1,2-Dichloroethane	10.0	9.01		ug/L		90	72 - 126
1,1-Dichloroethene	10.0	9.51		ug/L		95	71 - 122
Ethylbenzene	10.0	9.38		ug/L		94	80 - 123
Methylene Chloride	10.0	8.87		ug/L		89	71 - 129
Methyl tert-butyl ether	10.0	8.87		ug/L		89	68 - 124
n-Butylbenzene	10.0	10.0		ug/L		100	75 - 120
N-Propylbenzene	10.0	9.75		ug/L		98	78 - 121
sec-Butylbenzene	10.0	10.2		ug/L		102	80 - 121
tert-Butylbenzene	10.0	9.93		ug/L		99	79 - 120
Tetrachloroethene	10.0	9.73		ug/L		97	80 - 122
Toluene	10.0	9.97		ug/L		100	80 - 125
trans-1,2-Dichloroethene	10.0	9.58		ug/L		96	80 - 121
1,1,1-Trichloroethane	10.0	9.89		ug/L		99	57 - 128
Trichloroethene	10.0	8.62		ug/L		86	79 - 120
1,2,4-Trimethylbenzene	10.0	9.78		ug/L		98	80 - 120
1,3,5-Trimethylbenzene	10.0	9.99		ug/L		100	80 - 122
Vinyl chloride	10.0	10.3		ug/L		103	61 - 138
Xylenes, Total	20.0	18.9		ug/L		95	80 - 123

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*72 - 120*
Dibromofluoromethane (Surr)	*93*		*77 - 127*
1,2-Dichloroethane-d4 (Surr)	*95*		*72 - 134*
Toluene-d8 (Surr)	*104*		*80 - 120*

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 180-218817/9
Matrix: Solid
Analysis Batch: 218817

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.020	0.0032	mg/Kg			08/02/17 10:16	1
Benzene	ND		0.0050	0.0020	mg/Kg			08/02/17 10:16	1
2-Butanone (MEK)	ND		0.0050	0.0029	mg/Kg			08/02/17 10:16	1
Carbon tetrachloride	ND		0.0050	0.0033	mg/Kg			08/02/17 10:16	1
Chlorobenzene	ND		0.0050	0.0016	mg/Kg			08/02/17 10:16	1
Chloroform	ND		0.0050	0.0021	mg/Kg			08/02/17 10:16	1
cis-1,2-Dichloroethene	ND		0.0050	0.0016	mg/Kg			08/02/17 10:16	1
1,2-Dichlorobenzene	ND		0.0050	0.0040	mg/Kg			08/02/17 10:16	1
1,3-Dichlorobenzene	ND		0.0050	0.0016	mg/Kg			08/02/17 10:16	1
1,4-Dichlorobenzene	ND		0.0050	0.0010	mg/Kg			08/02/17 10:16	1
1,1-Dichloroethane	ND		0.0050	0.0018	mg/Kg			08/02/17 10:16	1
1,2-Dichloroethane	ND		0.0050	0.0015	mg/Kg			08/02/17 10:16	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 180-218817/9
Matrix: Solid
Analysis Batch: 218817

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		0.0050	0.0029	mg/Kg			08/02/17 10:16	1
Ethylbenzene	ND		0.0050	0.0022	mg/Kg			08/02/17 10:16	1
Methylene Chloride	ND		0.0050	0.0024	mg/Kg			08/02/17 10:16	1
Methyl tert-butyl ether	ND		0.0050	0.0037	mg/Kg			08/02/17 10:16	1
n-Butylbenzene	ND		0.0050	0.0038	mg/Kg			08/02/17 10:16	1
N-Propylbenzene	ND		0.0050	0.0021	mg/Kg			08/02/17 10:16	1
sec-Butylbenzene	ND		0.0050	0.0024	mg/Kg			08/02/17 10:16	1
tert-Butylbenzene	ND		0.0050	0.0018	mg/Kg			08/02/17 10:16	1
Tetrachloroethene	ND		0.0050	0.0020	mg/Kg			08/02/17 10:16	1
Toluene	ND		0.0050	0.0017	mg/Kg			08/02/17 10:16	1
trans-1,2-Dichloroethene	ND		0.0050	0.0025	mg/Kg			08/02/17 10:16	1
1,1,1-Trichloroethane	ND		0.0050	0.0025	mg/Kg			08/02/17 10:16	1
Trichloroethene	ND		0.0050	0.0015	mg/Kg			08/02/17 10:16	1
1,2,4-Trimethylbenzene	ND		0.0050	0.0013	mg/Kg			08/02/17 10:16	1
1,3,5-Trimethylbenzene	ND		0.0050	0.0017	mg/Kg			08/02/17 10:16	1
Vinyl chloride	ND		0.0050	0.0037	mg/Kg			08/02/17 10:16	1
Xylenes, Total	ND		0.010	0.0043	mg/Kg			08/02/17 10:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*63 - 120*		*08/02/17 10:16*	*1*
Dibromofluoromethane (Surr)	*102*		*68 - 121*		*08/02/17 10:16*	*1*
1,2-Dichloroethane-d4 (Surr)	*123*		*52 - 124*		*08/02/17 10:16*	*1*
Toluene-d8 (Surr)	*103*		*72 - 127*		*08/02/17 10:16*	*1*

Lab Sample ID: LCS 180-218817/4
Matrix: Solid
Analysis Batch: 218817

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0400	0.0347		mg/Kg		87	20 - 150
Benzene	0.0400	0.0378		mg/Kg		95	77 - 120
2-Butanone (MEK)	0.0400	0.0311		mg/Kg		78	35 - 149
Carbon tetrachloride	0.0400	0.0423		mg/Kg		106	69 - 122
Chlorobenzene	0.0400	0.0371		mg/Kg		93	79 - 120
Chloroform	0.0400	0.0418		mg/Kg		104	72 - 120
cis-1,2-Dichloroethene	0.0400	0.0385		mg/Kg		96	80 - 118
1,2-Dichlorobenzene	0.0400	0.0367		mg/Kg		92	71 - 124
1,3-Dichlorobenzene	0.0400	0.0357		mg/Kg		89	75 - 118
1,4-Dichlorobenzene	0.0400	0.0362		mg/Kg		91	77 - 116
1,1-Dichloroethane	0.0400	0.0412		mg/Kg		103	66 - 124
1,2-Dichloroethane	0.0400	0.0457		mg/Kg		114	61 - 127
1,1-Dichloroethene	0.0400	0.0367		mg/Kg		92	59 - 129
Ethylbenzene	0.0400	0.0365		mg/Kg		91	78 - 125
Methylene Chloride	0.0400	0.0394		mg/Kg		98	58 - 127
Methyl tert-butyl ether	0.0400	0.0433		mg/Kg		108	48 - 132
n-Butylbenzene	0.0400	0.0404		mg/Kg		101	59 - 145
N-Propylbenzene	0.0400	0.0376		mg/Kg		94	80 - 120
sec-Butylbenzene	0.0400	0.0385		mg/Kg		96	70 - 130

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 180-218817/4
Matrix: Solid
Analysis Batch: 218817

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
tert-Butylbenzene	0.0400	0.0379		mg/Kg		95	74 - 133
Tetrachloroethene	0.0400	0.0321		mg/Kg		80	78 - 129
Toluene	0.0400	0.0368		mg/Kg		92	78 - 124
trans-1,2-Dichloroethene	0.0400	0.0399		mg/Kg		100	77 - 121
1,1,1-Trichloroethane	0.0400	0.0444		mg/Kg		111	67 - 126
Trichloroethene	0.0400	0.0356		mg/Kg		89	76 - 119
1,2,4-Trimethylbenzene	0.0400	0.0382		mg/Kg		95	80 - 121
1,3,5-Trimethylbenzene	0.0400	0.0383		mg/Kg		96	68 - 133
Vinyl chloride	0.0400	0.0335		mg/Kg		84	63 - 124
Xylenes, Total	0.0800	0.0719		mg/Kg		90	83 - 126

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*63 - 120*
Dibromofluoromethane (Surr)	*102*		*68 - 121*
1,2-Dichloroethane-d4 (Surr)	*116*		*52 - 124*
Toluene-d8 (Surr)	*98*		*72 - 127*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Lab Sample ID: MB 180-218783/1-A
Matrix: Solid
Analysis Batch: 218840

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 218783

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0067	0.0022	mg/Kg		08/01/17 12:15	08/02/17 10:36	1
Acenaphthylene	ND		0.0067	0.0023	mg/Kg		08/01/17 12:15	08/02/17 10:36	1
Anthracene	ND		0.0067	0.0025	mg/Kg		08/01/17 12:15	08/02/17 10:36	1
Benzo[a]anthracene	ND		0.0067	0.0026	mg/Kg		08/01/17 12:15	08/02/17 10:36	1
Benzo[a]pyrene	ND		0.0067	0.0028	mg/Kg		08/01/17 12:15	08/02/17 10:36	1
Benzo[b]fluoranthene	ND		0.0067	0.0029	mg/Kg		08/01/17 12:15	08/02/17 10:36	1
Benzo[g,h,i]perylene	ND		0.0067	0.0029	mg/Kg		08/01/17 12:15	08/02/17 10:36	1
Benzo[k]fluoranthene	ND		0.0067	0.0023	mg/Kg		08/01/17 12:15	08/02/17 10:36	1
Chrysene	ND		0.0067	0.0026	mg/Kg		08/01/17 12:15	08/02/17 10:36	1
Dibenz(a,h)anthracene	ND		0.0067	0.0028	mg/Kg		08/01/17 12:15	08/02/17 10:36	1
Dibenzofuran	ND		0.033	0.0027	mg/Kg		08/01/17 12:15	08/02/17 10:36	1
2,4-Dinitrotoluene	ND		33	4.4	ug/Kg		08/01/17 12:15	08/02/17 10:36	1
1,4-Dioxane	ND		0.067	0.0050	mg/Kg		08/01/17 12:15	08/02/17 10:36	1
Fluoranthene	ND		0.0067	0.0026	mg/Kg		08/01/17 12:15	08/02/17 10:36	1
Fluorene	ND		0.0067	0.0024	mg/Kg		08/01/17 12:15	08/02/17 10:36	1
Hexachlorobenzene	ND		0.0067	0.0027	mg/Kg		08/01/17 12:15	08/02/17 10:36	1
Hexachlorobutadiene	ND		6.7	2.1	ug/Kg		08/01/17 12:15	08/02/17 10:36	1
Hexachloroethane	ND		33	2.4	ug/Kg		08/01/17 12:15	08/02/17 10:36	1
Indeno[1,2,3-cd]pyrene	ND		0.0067	0.0026	mg/Kg		08/01/17 12:15	08/02/17 10:36	1
2-Methylphenol	ND		0.033	0.0029	mg/Kg		08/01/17 12:15	08/02/17 10:36	1
Methylphenol, 3 & 4	ND		0.033	0.0030	mg/Kg		08/01/17 12:15	08/02/17 10:36	1
Naphthalene	ND		0.0067	0.0024	mg/Kg		08/01/17 12:15	08/02/17 10:36	1
Nitrobenzene	ND		67	2.5	ug/Kg		08/01/17 12:15	08/02/17 10:36	1
Pentachlorophenol	ND		0.17	0.063	mg/Kg		08/01/17 12:15	08/02/17 10:36	1

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: MB 180-218783/1-A
Matrix: Solid
Analysis Batch: 218840

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 218783

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenanthrene	ND		0.0067	0.0028	mg/Kg		08/01/17 12:15	08/02/17 10:36	1
Phenol	ND		0.033	0.0045	mg/Kg		08/01/17 12:15	08/02/17 10:36	1
Pyrene	ND		0.0067	0.0030	mg/Kg		08/01/17 12:15	08/02/17 10:36	1
Pyridine	ND		33	3.2	ug/Kg		08/01/17 12:15	08/02/17 10:36	1
2,4,5-Trichlorophenol	ND		33	3.2	ug/Kg		08/01/17 12:15	08/02/17 10:36	1
2,4,6-Trichlorophenol	ND		33	2.9	ug/Kg		08/01/17 12:15	08/02/17 10:36	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*70*		*42 - 100*	*08/01/17 12:15*	*08/02/17 10:36*	*1*
2-Fluorophenol (Surr)	*69*		*21 - 107*	*08/01/17 12:15*	*08/02/17 10:36*	*1*
Nitrobenzene-d5 (Surr)	*66*		*35 - 109*	*08/01/17 12:15*	*08/02/17 10:36*	*1*
Phenol-d5 (Surr)	*66*		*29 - 105*	*08/01/17 12:15*	*08/02/17 10:36*	*1*
Terphenyl-d14 (Surr)	*65*		*36 - 113*	*08/01/17 12:15*	*08/02/17 10:36*	*1*
2,4,6-Tribromophenol (Surr)	*59*		*20 - 134*	*08/01/17 12:15*	*08/02/17 10:36*	*1*

Lab Sample ID: LCS 180-218783/2-A
Matrix: Solid
Analysis Batch: 218840

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 218783

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	0.667	0.464		mg/Kg		70	39 - 100
Acenaphthylene	0.667	0.459		mg/Kg		69	42 - 100
Anthracene	0.667	0.455		mg/Kg		68	43 - 100
Benzo[a]anthracene	0.667	0.459		mg/Kg		69	43 - 100
Benzo[a]pyrene	0.667	0.429		mg/Kg		64	43 - 100
Benzo[b]fluoranthene	0.667	0.416		mg/Kg		62	40 - 100
Benzo[g,h,i]perylene	0.667	0.487		mg/Kg		73	41 - 102
Benzo[k]fluoranthene	0.667	0.464		mg/Kg		70	44 - 100
Chrysene	0.667	0.440		mg/Kg		66	44 - 100
Dibenz(a,h)anthracene	0.667	0.502		mg/Kg		75	40 - 104
Dibenzofuran	0.667	0.473		mg/Kg		71	42 - 100
2,4-Dinitrotoluene	667	501		ug/Kg		75	42 - 110
1,4-Dioxane	0.667	0.449		mg/Kg		67	19 - 107
Fluoranthene	0.667	0.473		mg/Kg		71	41 - 104
Fluorene	0.667	0.481		mg/Kg		72	41 - 100
Hexachlorobenzene	0.667	0.449		mg/Kg		67	43 - 100
Hexachlorobutadiene	667	439		ug/Kg		66	35 - 100
Hexachloroethane	667	453		ug/Kg		68	35 - 100
Indeno[1,2,3-cd]pyrene	0.667	0.502		mg/Kg		75	41 - 104
2-Methylphenol	0.667	0.432		mg/Kg		65	38 - 100
Methylphenol, 3 & 4	0.667	0.454		mg/Kg		68	40 - 100
Naphthalene	0.667	0.455		mg/Kg		68	38 - 100
Nitrobenzene	667	457		ug/Kg		69	34 - 100
Pentachlorophenol	1.33	0.777		mg/Kg		58	34 - 102
Phenanthrene	0.667	0.431		mg/Kg		65	41 - 100
Phenol	0.667	0.437		mg/Kg		66	36 - 100
Pyrene	0.667	0.447		mg/Kg		67	42 - 100
Pyridine	1330	955		ug/Kg		72	25 - 119

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCS 180-218783/2-A
Matrix: Solid
Analysis Batch: 218840

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 218783

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
2,4,5-Trichlorophenol			667	457		ug/Kg		68	42 - 100		
2,4,6-Trichlorophenol			667	499		ug/Kg		75	41 - 103		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*67*		*42 - 100*
2-Fluorophenol (Surr)	*67*		*21 - 107*
Nitrobenzene-d5 (Surr)	*68*		*35 - 109*
Phenol-d5 (Surr)	*68*		*29 - 105*
Terphenyl-d14 (Surr)	*67*		*36 - 113*
2,4,6-Tribromophenol (Surr)	*64*		*20 - 134*

Lab Sample ID: LCSD 180-218783/3-A
Matrix: Solid
Analysis Batch: 218840

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 218783

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene			0.667	0.438		mg/Kg		66	39 - 100	6	20
Acenaphthylene			0.667	0.441		mg/Kg		66	42 - 100	4	20
Anthracene			0.667	0.447		mg/Kg		67	43 - 100	2	20
Benzo[a]anthracene			0.667	0.451		mg/Kg		68	43 - 100	2	20
Benzo[a]pyrene			0.667	0.434		mg/Kg		65	43 - 100	1	20
Benzo[b]fluoranthene			0.667	0.428		mg/Kg		64	40 - 100	3	20
Benzo[g,h,i]perylene			0.667	0.468		mg/Kg		70	41 - 102	4	20
Benzo[k]fluoranthene			0.667	0.431		mg/Kg		65	44 - 100	7	20
Chrysene			0.667	0.435		mg/Kg		65	44 - 100	1	20
Dibenz(a,h)anthracene			0.667	0.493		mg/Kg		74	40 - 104	2	26
Dibenzofuran			0.667	0.446		mg/Kg		67	42 - 100	6	23
2,4-Dinitrotoluene			667	479		ug/Kg		72	42 - 110	5	21
1,4-Dioxane			0.667	0.437		mg/Kg		66	19 - 107	3	20
Fluoranthene			0.667	0.476		mg/Kg		71	41 - 104	1	20
Fluorene			0.667	0.438		mg/Kg		66	41 - 100	9	21
Hexachlorobenzene			0.667	0.441		mg/Kg		66	43 - 100	2	21
Hexachlorobutadiene			667	430		ug/Kg		65	35 - 100	2	20
Hexachloroethane			667	461		ug/Kg		69	35 - 100	2	20
Indeno[1,2,3-cd]pyrene			0.667	0.484		mg/Kg		73	41 - 104	4	25
2-Methylphenol			0.667	0.455		mg/Kg		68	38 - 100	5	20
Methylphenol, 3 & 4			0.667	0.447		mg/Kg		67	40 - 100	1	20
Naphthalene			0.667	0.448		mg/Kg		67	38 - 100	2	20
Nitrobenzene			667	463		ug/Kg		69	34 - 100	1	20
Pentachlorophenol			1.33	0.769		mg/Kg		58	34 - 102	1	20
Phenanthrene			0.667	0.440		mg/Kg		66	41 - 100	2	20
Phenol			0.667	0.449		mg/Kg		67	36 - 100	3	20
Pyrene			0.667	0.440		mg/Kg		66	42 - 100	2	21
Pyridine			1330	952		ug/Kg		71	25 - 119	0	20
2,4,5-Trichlorophenol			667	426		ug/Kg		64	42 - 100	7	22
2,4,6-Trichlorophenol			667	483		ug/Kg		72	41 - 103	3	25

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCSD 180-218783/3-A
Matrix: Solid
Analysis Batch: 218840

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 218783

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*64*		*42 - 100*
2-Fluorophenol (Surr)	*67*		*21 - 107*
Nitrobenzene-d5 (Surr)	*67*		*35 - 109*
Phenol-d5 (Surr)	*70*		*29 - 105*
Terphenyl-d14 (Surr)	*67*		*36 - 113*
2,4,6-Tribromophenol (Surr)	*65*		*20 - 134*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 180-218784/1-C
Matrix: Solid
Analysis Batch: 218834

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 218784

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.017	0.0088	mg/Kg		08/01/17 12:15	08/02/17 13:39	1
PCB-1221	ND		0.017	0.0086	mg/Kg		08/01/17 12:15	08/02/17 13:39	1
PCB-1232	ND		0.017	0.0066	mg/Kg		08/01/17 12:15	08/02/17 13:39	1
PCB-1242	ND		0.017	0.013	mg/Kg		08/01/17 12:15	08/02/17 13:39	1
PCB-1248	ND		0.017	0.0080	mg/Kg		08/01/17 12:15	08/02/17 13:39	1
PCB-1254	ND		0.017	0.0073	mg/Kg		08/01/17 12:15	08/02/17 13:39	1
PCB-1260	ND		0.017	0.011	mg/Kg		08/01/17 12:15	08/02/17 13:39	1
PCB-1262	ND		0.017	0.012	mg/Kg		08/01/17 12:15	08/02/17 13:39	1
PCB-1268	ND		0.017	0.0051	mg/Kg		08/01/17 12:15	08/02/17 13:39	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*92*		*23 - 150*	*08/01/17 12:15*	*08/02/17 13:39*	*1*
DCB Decachlorobiphenyl (Surr)	*92*		*23 - 150*	*08/01/17 12:15*	*08/02/17 13:39*	*1*
Tetrachloro-m-xylene (Surr)	*101*		*27 - 138*	*08/01/17 12:15*	*08/02/17 13:39*	*1*
Tetrachloro-m-xylene (Surr)	*94*		*27 - 138*	*08/01/17 12:15*	*08/02/17 13:39*	*1*

Lab Sample ID: LCS 180-218784/2-C
Matrix: Solid
Analysis Batch: 218834

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 218784

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			1.33	1.32		mg/Kg		99	52 - 126		
PCB-1260			1.33	1.30		mg/Kg		98	50 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*91*		*23 - 150*
DCB Decachlorobiphenyl (Surr)	*95*		*23 - 150*
Tetrachloro-m-xylene (Surr)	*102*		*27 - 138*
Tetrachloro-m-xylene (Surr)	*93*		*27 - 138*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCSD 180-218784/3-C
Matrix: Solid
Analysis Batch: 218834

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 218784

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016			1.33	1.30		mg/Kg		97	52 - 126	2	20
PCB-1260			1.33	1.30		mg/Kg		97	50 - 130	1	21

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*90*		*23 - 150*
DCB Decachlorobiphenyl (Surr)	*93*		*23 - 150*
Tetrachloro-m-xylene (Surr)	*102*		*27 - 138*
Tetrachloro-m-xylene (Surr)	*92*		*27 - 138*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 180-218882/1-A
Matrix: Solid
Analysis Batch: 219034

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 218882

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		1.0	0.44	mg/Kg		08/02/17 11:34	08/03/17 10:45	1
Barium	ND		20	5.4	mg/Kg		08/02/17 11:34	08/03/17 10:45	1
Beryllium	ND		0.40	0.10	mg/Kg		08/02/17 11:34	08/03/17 10:45	1
Cadmium	ND		0.50	0.11	mg/Kg		08/02/17 11:34	08/03/17 10:45	1
Chromium	ND		0.50	0.13	mg/Kg		08/02/17 11:34	08/03/17 10:45	1
Copper	ND		2.5	0.77	mg/Kg		08/02/17 11:34	08/03/17 10:45	1
Lead	ND		1.0	0.33	mg/Kg		08/02/17 11:34	08/03/17 10:45	1
Manganese	ND		1.5	0.41	mg/Kg		08/02/17 11:34	08/03/17 10:45	1
Nickel	ND		4.0	0.90	mg/Kg		08/02/17 11:34	08/03/17 10:45	1
Selenium	ND		1.0	0.40	mg/Kg		08/02/17 11:34	08/03/17 10:45	1
Silver	ND		0.50	0.17	mg/Kg		08/02/17 11:34	08/03/17 10:45	1
Zinc	ND		2.0	1.0	mg/Kg		08/02/17 11:34	08/03/17 10:45	1

Lab Sample ID: LCS 180-218882/2-A
Matrix: Solid
Analysis Batch: 219034

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 218882

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic			50.0	48.7		mg/Kg		97	80 - 120
Barium			200	185		mg/Kg		92	80 - 120
Beryllium			5.00	4.87		mg/Kg		97	80 - 120
Cadmium			5.00	4.78		mg/Kg		96	80 - 120
Chromium			20.0	19.6		mg/Kg		98	80 - 120
Copper			25.0	24.9		mg/Kg		100	80 - 120
Lead			50.0	47.5		mg/Kg		95	80 - 120
Manganese			50.0	46.9		mg/Kg		94	80 - 120
Nickel			50.0	49.9		mg/Kg		100	80 - 120
Selenium			50.0	47.7		mg/Kg		95	80 - 120
Silver			5.00	4.92		mg/Kg		98	80 - 120
Zinc			50.0	49.8		mg/Kg		100	80 - 120

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 180-218756/1-A
Matrix: Solid
Analysis Batch: 218849

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 218756

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.033	0.0074	mg/Kg		08/01/17 13:50	08/02/17 07:20	1

Lab Sample ID: LCS 180-218756/2-A
Matrix: Solid
Analysis Batch: 218849

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 218756

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.417	0.448		mg/Kg		108	80 - 120

Lab Sample ID: 180-68756-3 MS
Matrix: Solid
Analysis Batch: 218849

Client Sample ID: W1-b, S1, C 073117
Prep Type: Total/NA
Prep Batch: 218756

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.058	F1 F2	0.188	0.0643	F1	mg/Kg	☼	3	80 - 120

Lab Sample ID: 180-68756-3 MSD
Matrix: Solid
Analysis Batch: 218849

Client Sample ID: W1-b, S1, C 073117
Prep Type: Total/NA
Prep Batch: 218756

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.058	F1 F2	0.205	0.0313	J F1 F2	mg/Kg	☼	-13	80 - 120	69	20

Method: 9014 - Cyanide

Lab Sample ID: MB 180-218907/4-A
Matrix: Solid
Analysis Batch: 219021

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 218907

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.50	0.15	mg/Kg		08/02/17 13:35	08/03/17 11:09	1

Lab Sample ID: HLCS 180-218907/2-A
Matrix: Solid
Analysis Batch: 219021

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 218907

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.250	0.255		mg/Kg		102	90 - 110

Lab Sample ID: LCS 180-218907/3-A
Matrix: Solid
Analysis Batch: 219021

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 218907

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	164	119		mg/Kg		73	38 - 162

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68756-1

Method: 9014 - Cyanide (Continued)

Lab Sample ID: LLCS 180-218907/1-A
Matrix: Solid
Analysis Batch: 219021

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 218907

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.0500	0.0501		mg/Kg		100	90 - 110

GC/MS VOA

Analysis Batch: 218804

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68756-17	TRIP BLANK #1	Total/NA	Water	8260C	
MB 180-218804/5	Method Blank	Total/NA	Water	8260C	
LCS 180-218804/3	Lab Control Sample	Total/NA	Water	8260C	

Analysis Batch: 218817

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68756-1	W1-b, S1, A 073117	Total/NA	Solid	8260C	218835
180-68756-2	W1-b, S1, B 073117	Total/NA	Solid	8260C	218835
180-68756-4	W1-b, S2, A 073117	Total/NA	Solid	8260C	218835
180-68756-5	W1-b, S2, B 073117	Total/NA	Solid	8260C	218835
180-68756-7	W1-b, S3, A 073117	Total/NA	Solid	8260C	218835
180-68756-8	W1-b, S3, B 073117	Total/NA	Solid	8260C	218835
180-68756-10	W1-b, S4, A 073117	Total/NA	Solid	8260C	218835
180-68756-11	W1-b, S4, B 073117	Total/NA	Solid	8260C	218835
180-68756-18	DUP 20	Total/NA	Solid	8260C	218835
MB 180-218817/9	Method Blank	Total/NA	Solid	8260C	
LCS 180-218817/4	Lab Control Sample	Total/NA	Solid	8260C	

Prep Batch: 218835

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68756-1	W1-b, S1, A 073117	Total/NA	Solid	5035	
180-68756-2	W1-b, S1, B 073117	Total/NA	Solid	5035	
180-68756-4	W1-b, S2, A 073117	Total/NA	Solid	5035	
180-68756-5	W1-b, S2, B 073117	Total/NA	Solid	5035	
180-68756-7	W1-b, S3, A 073117	Total/NA	Solid	5035	
180-68756-8	W1-b, S3, B 073117	Total/NA	Solid	5035	
180-68756-10	W1-b, S4, A 073117	Total/NA	Solid	5035	
180-68756-11	W1-b, S4, B 073117	Total/NA	Solid	5035	
180-68756-18	DUP 20	Total/NA	Solid	5035	

GC/MS Semi VOA

Prep Batch: 218783

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68756-3	W1-b, S1, C 073117	Total/NA	Solid	3541	
180-68756-6	W1-b, S2, C 073117	Total/NA	Solid	3541	
180-68756-9	W1-b, S3, C 073117	Total/NA	Solid	3541	
180-68756-12	W1-b, S4, C 073117	Total/NA	Solid	3541	
MB 180-218783/1-A	Method Blank	Total/NA	Solid	3541	
LCS 180-218783/2-A	Lab Control Sample	Total/NA	Solid	3541	
LCSD 180-218783/3-A	Lab Control Sample Dup	Total/NA	Solid	3541	

Analysis Batch: 218840

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68756-3	W1-b, S1, C 073117	Total/NA	Solid	8270D LL	218783
MB 180-218783/1-A	Method Blank	Total/NA	Solid	8270D LL	218783
LCS 180-218783/2-A	Lab Control Sample	Total/NA	Solid	8270D LL	218783
LCSD 180-218783/3-A	Lab Control Sample Dup	Total/NA	Solid	8270D LL	218783

GC/MS Semi VOA (Continued)

Analysis Batch: 219016

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68756-6	W1-b, S2, C 073117	Total/NA	Solid	8270D LL	218783
180-68756-9	W1-b, S3, C 073117	Total/NA	Solid	8270D LL	218783
180-68756-12	W1-b, S4, C 073117	Total/NA	Solid	8270D LL	218783

GC Semi VOA

Prep Batch: 218784

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68756-3	W1-b, S1, C 073117	Total/NA	Solid	3541	
180-68756-6	W1-b, S2, C 073117	Total/NA	Solid	3541	
180-68756-9	W1-b, S3, C 073117	Total/NA	Solid	3541	
180-68756-12	W1-b, S4, C 073117	Total/NA	Solid	3541	
MB 180-218784/1-C	Method Blank	Total/NA	Solid	3541	
LCS 180-218784/2-C	Lab Control Sample	Total/NA	Solid	3541	
LCSD 180-218784/3-C	Lab Control Sample Dup	Total/NA	Solid	3541	

Cleanup Batch: 218827

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68756-3	W1-b, S1, C 073117	Total/NA	Solid	3665A	218784
180-68756-6	W1-b, S2, C 073117	Total/NA	Solid	3665A	218784
180-68756-9	W1-b, S3, C 073117	Total/NA	Solid	3665A	218784
180-68756-12	W1-b, S4, C 073117	Total/NA	Solid	3665A	218784
MB 180-218784/1-C	Method Blank	Total/NA	Solid	3665A	218784
LCS 180-218784/2-C	Lab Control Sample	Total/NA	Solid	3665A	218784
LCSD 180-218784/3-C	Lab Control Sample Dup	Total/NA	Solid	3665A	218784

Cleanup Batch: 218828

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68756-3	W1-b, S1, C 073117	Total/NA	Solid	3660B	218827
180-68756-6	W1-b, S2, C 073117	Total/NA	Solid	3660B	218827
180-68756-9	W1-b, S3, C 073117	Total/NA	Solid	3660B	218827
180-68756-12	W1-b, S4, C 073117	Total/NA	Solid	3660B	218827
MB 180-218784/1-C	Method Blank	Total/NA	Solid	3660B	218827
LCS 180-218784/2-C	Lab Control Sample	Total/NA	Solid	3660B	218827
LCSD 180-218784/3-C	Lab Control Sample Dup	Total/NA	Solid	3660B	218827

Analysis Batch: 218834

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68756-6	W1-b, S2, C 073117	Total/NA	Solid	8082A	218828
180-68756-9	W1-b, S3, C 073117	Total/NA	Solid	8082A	218828
180-68756-12	W1-b, S4, C 073117	Total/NA	Solid	8082A	218828
MB 180-218784/1-C	Method Blank	Total/NA	Solid	8082A	218828
LCS 180-218784/2-C	Lab Control Sample	Total/NA	Solid	8082A	218828
LCSD 180-218784/3-C	Lab Control Sample Dup	Total/NA	Solid	8082A	218828

Analysis Batch: 218951

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68756-3	W1-b, S1, C 073117	Total/NA	Solid	8082A	218828

Metals

Prep Batch: 218756

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68756-3	W1-b, S1, C 073117	Total/NA	Solid	7471B	
180-68756-6	W1-b, S2, C 073117	Total/NA	Solid	7471B	
180-68756-9	W1-b, S3, C 073117	Total/NA	Solid	7471B	
180-68756-12	W1-b, S4, C 073117	Total/NA	Solid	7471B	
MB 180-218756/1-A	Method Blank	Total/NA	Solid	7471B	
LCS 180-218756/2-A	Lab Control Sample	Total/NA	Solid	7471B	
180-68756-3 MS	W1-b, S1, C 073117	Total/NA	Solid	7471B	
180-68756-3 MSD	W1-b, S1, C 073117	Total/NA	Solid	7471B	

Analysis Batch: 218849

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68756-3	W1-b, S1, C 073117	Total/NA	Solid	7471B	218756
180-68756-6	W1-b, S2, C 073117	Total/NA	Solid	7471B	218756
180-68756-9	W1-b, S3, C 073117	Total/NA	Solid	7471B	218756
180-68756-12	W1-b, S4, C 073117	Total/NA	Solid	7471B	218756
MB 180-218756/1-A	Method Blank	Total/NA	Solid	7471B	218756
LCS 180-218756/2-A	Lab Control Sample	Total/NA	Solid	7471B	218756
180-68756-3 MS	W1-b, S1, C 073117	Total/NA	Solid	7471B	218756
180-68756-3 MSD	W1-b, S1, C 073117	Total/NA	Solid	7471B	218756

Prep Batch: 218882

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68756-3	W1-b, S1, C 073117	Total/NA	Solid	3050B	
180-68756-6	W1-b, S2, C 073117	Total/NA	Solid	3050B	
180-68756-9	W1-b, S3, C 073117	Total/NA	Solid	3050B	
180-68756-12	W1-b, S4, C 073117	Total/NA	Solid	3050B	
MB 180-218882/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 180-218882/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Analysis Batch: 219034

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68756-3	W1-b, S1, C 073117	Total/NA	Solid	6010C	218882
180-68756-6	W1-b, S2, C 073117	Total/NA	Solid	6010C	218882
180-68756-9	W1-b, S3, C 073117	Total/NA	Solid	6010C	218882
180-68756-12	W1-b, S4, C 073117	Total/NA	Solid	6010C	218882
MB 180-218882/1-A	Method Blank	Total/NA	Solid	6010C	218882
LCS 180-218882/2-A	Lab Control Sample	Total/NA	Solid	6010C	218882

General Chemistry

Analysis Batch: 218750

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68756-1	W1-b, S1, A 073117	Total/NA	Solid	2540G	
180-68756-2	W1-b, S1, B 073117	Total/NA	Solid	2540G	
180-68756-3	W1-b, S1, C 073117	Total/NA	Solid	2540G	
180-68756-4	W1-b, S2, A 073117	Total/NA	Solid	2540G	
180-68756-5	W1-b, S2, B 073117	Total/NA	Solid	2540G	
180-68756-6	W1-b, S2, C 073117	Total/NA	Solid	2540G	
180-68756-7	W1-b, S3, A 073117	Total/NA	Solid	2540G	
180-68756-8	W1-b, S3, B 073117	Total/NA	Solid	2540G	

General Chemistry (Continued)

Analysis Batch: 218750 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68756-9	W1-b, S3, C 073117	Total/NA	Solid	2540G	
180-68756-10	W1-b, S4, A 073117	Total/NA	Solid	2540G	
180-68756-11	W1-b, S4, B 073117	Total/NA	Solid	2540G	
180-68756-12	W1-b, S4, C 073117	Total/NA	Solid	2540G	
180-68756-18	DUP 20	Total/NA	Solid	2540G	

Prep Batch: 218907

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68756-3	W1-b, S1, C 073117	Total/NA	Solid	9010C	
180-68756-6	W1-b, S2, C 073117	Total/NA	Solid	9010C	
180-68756-9	W1-b, S3, C 073117	Total/NA	Solid	9010C	
180-68756-12	W1-b, S4, C 073117	Total/NA	Solid	9010C	
MB 180-218907/4-A	Method Blank	Total/NA	Solid	9010C	
HLCS 180-218907/2-A	Lab Control Sample	Total/NA	Solid	9010C	
LCS 180-218907/3-A	Lab Control Sample	Total/NA	Solid	9010C	
LLCS 180-218907/1-A	Lab Control Sample	Total/NA	Solid	9010C	

Analysis Batch: 219021

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68756-3	W1-b, S1, C 073117	Total/NA	Solid	9014	218907
180-68756-6	W1-b, S2, C 073117	Total/NA	Solid	9014	218907
180-68756-9	W1-b, S3, C 073117	Total/NA	Solid	9014	218907
180-68756-12	W1-b, S4, C 073117	Total/NA	Solid	9014	218907
MB 180-218907/4-A	Method Blank	Total/NA	Solid	9014	218907
HLCS 180-218907/2-A	Lab Control Sample	Total/NA	Solid	9014	218907
LCS 180-218907/3-A	Lab Control Sample	Total/NA	Solid	9014	218907
LLCS 180-218907/1-A	Lab Control Sample	Total/NA	Solid	9014	218907

TestAmerica Pittsburgh
301 Alpha Drive RIDC Park
Pittsburgh, PA 15238
Phone (412) 963-7058 Fax (412) 963-2468

Chain of Custody Record

180-68756 Chain of Custody

America
R IN ENVIRONMENTAL TESTING

4-8381.1

Client Information	Sampler: Ellen Buelow	Lab PM: Dunlap, David A	
Client Contact: Ashwin Ranna; Aron Krasnopoler	Phone: 412-552-4758	E-Mail: david.dunlap@testamericainc.com	
Company: Geosyntec Consultants, Inc.			Job #:
Address: Penn Center West One, Suite 402 1 Penn Center West Drive	Due Date Requested:		
City: Pittsburgh	TAT Requested (days): 1 DAY TAT		
State, Zip: PA, 15276			
Phone:	PO #: MN0832B		
Email: aranna@geosyntec.com; Akrasnopoler@geosyntec.com	WO #:		
Project Name: Former Sperry Remington Site - North IRM	Project #: 18013464		
Site:	SSOW#:		

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

RUSH

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - VOA-Select List	6010C, 7471B, 9014 - Select ICP Metals, Mercury, Cyanide	8082A, 8270D, PCBs, Select BNA	8260C - VOA-Select List (Trip Blanks only)	Total Number of containers	Special Instructions/Note:
Preservation Code:							N	N	N	A		
W1-b, S1, A 073117	073117	9:05	G	Solid	N	N	X				4	
W1-b, S1, B 073117	073117	9:15	G	Solid	N	N	X				4	
W1-b, S1, C 073117	073117	9:25	C	Solid	N	N		X	X		2	
W1-b, S2, A 073117	07.31.17	9:50	G	Solid	N	N	X				4	
W1-b, S2, B 073117	07.31.17	9:55	G	Solid	N	N	X				4	
W1-b, S2, C 073117	07 31.17	10:05	C	Solid	N	N		X	X		2	
W1-b, S3, A 073117	07.31.17	10:40	G	Solid	N	N	X				4	
W1-b, S3, B 073117	07.31.17	10:50	G	Solid	N	N	X				4	
W1-b, S3, C 073117	07.31.17	10:55	C	Solid	N	N		X	X		2	
W1-b, S4 A 073117	07.31.17	11:00	G	Solid	N	N	X				4	
W1-b, S4, B 073117	07.31.17	11:10	G	Solid	N	N	X				4	

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	[signature]	07/31/17 18:45	Geosyntec	[signature]	8-1-17	TDP
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 8:40	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

TestAmerica Pittsburgh
301 Alpha Drive RIDC Park
Pittsburgh, PA 15238
Phone (412) 963-7058 Fax (412) 963-2468

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Ellen Buelow	Lab PM: Dunlap, David A	Carrier Tracking No(s):	COC No: 180-38494-8381.1
Client Contact: Ashwin Ranna; Aron Krasnopoler	Phone: 412-552-4758	E-Mail: david.dunlap@testamericainc.com		Page: Page of
Company: Geosyntec Consultants, Inc.				Job #:
Address: Penn Center West One, Suite 402 1 Penn Center West Drive	Due Date Requested:			
City: Pittsburgh	TAT Requested (days): 1 day TAT			
State, Zip: PA, 15276				
Phone:	PO #: MN0832B			
Email: aranna@geosyntec.com; Akrasnopoler@geosyntec.com	WO #:			
Project Name: Former Sperry Remington Site - North IRM	Project #: 18013464			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - VOA-Select List	6010C, 7471B, 9014 - Select ICP Metals, Mercury, Cyanide	8082A, 8270D, PCBs, Select BNA	8260C - VOA-Select List (Trip Blanks only)	TCLP RCRA METALS	TCLP SEMI VOA	TCLP VOC	PCB 8082A	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	A						
WI-b, S4, C 073117	07.31.17	11:15	C	Solid	N	N		X	X						2	
~~WI-5~~ WB4-5, S1, A 073117	07.31.17	15:55	G	Solid	N	N							X		2	
WB4-5, S1, C 073117	07.31.17	16:00	C	Solid	N	N					X	X		X	3	
WB4-5, S2, A 073117	07.31.17	16:30	G	Solid	N	N							X		2	
WB4-5, S2, C 073117	073117	17:00	C	Solid	N	N					X	X		X	3	
TRIP BLANK #1	073117	—	—	~~Solid~~ W	N	N				X					2	
				Solid												
				Solid												
				Solid												
DUP 20	07.31.17	~~[redacted]~~	G	Solid	N	N	X								4	
DUP 21	07.31.17	—	G	Solid	N	N							X		2	

RUSH

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	[signature]	07/31/17 18:45	Geosyntec	[signature] Watson	8-1-17 8:40	TAT
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

8/4/2017

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 180-68756-1

Login Number: 68756
List Number: 1
Creator: Watson, Debbie

List Source: TestAmerica Pittsburgh

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	False	trip blank
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

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ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

TestAmerica Job ID: 180-68814-2
Client Project/Site: Former Sperry Remington Site - North IRM

For:
Geosyntec Consultants, Inc.
10211 Wincopin Circle
4'th Floor
Columbia, Maryland 21044

Attn: Mr. Aron Krasnopoler

Authorized for release by:
8/10/2017 5:13:42 PM

David Dunlap, Senior Project Manager
(412)963-2432
david.dunlap@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68814-2

Job ID: 180-68814-2

Laboratory: TestAmerica Pittsburgh

Narrative

Job Narrative
180-68814-2

Receipt
The samples were received on 8/2/2017 8:45 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.7° C.

GC/MS VOA
Method(s) 8260C: The continuing calibration verification (CCV) analyzed in batch 180-218968 was below criteria for the following analyte: 2-butanone (MEK). A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte is considered estimated.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method(s) 8270D LL: The following sample was diluted due to the nature of the sample matrix: WB2-3, S2, C 08.01.17 (180-68814-16). Elevated reporting limits (RLs) are provided.

Method(s) 8270D LL: The continuing calibration verification (CCV) analyzed in 180-219126 was above criteria for the following analytes: 1,4-dioxane and pyridine. As the CCV was high and these analytes were not detected in the associated samples, the results were reported.

Method(s) 8270D LL: The continuing calibration verification (CCV) analyzed in 180-219211 was above criteria for the following analytes: 1,4-dioxane, hexachlorobutadiene, and pyridine. As the CCV was high and these analytes were not detected in the associated samples, the results were reported.

Method(s) 8270D LL: The matrix spike/matrix spike duplicate (MS/MSD) of sample WB2-3, S1, C 08.01.17 (180-68814-13) had several recoveries and RPDs between the spikes outside of the above the control limits. The recoveries of the laboratory control sample (LCS) were within the control limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
Method(s) 8082A: The continuing calibration verification (CCV) analyzed in batch 180-219079 was below criteria for arcolor 1016 (CCV 180-219079/26) on column RTX-CLP2. All results in the associated samples were reported from column RTX-CLP1, which met criteria. The % difference between the sample results on both columns was <40%.

Method(s) 8082A: Sample WB2-3, S1, C 08.01.17 (180-68814-13) exhibited a slight retention time shift for the internal standards, surrogates, and aroclor peaks. As the patterns for the aroclors were clearly present, the results were reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
Method(s) 6010C: The low level continuing calibration verification (CCVL 180-219329/58) recovered above the control limit for selenium (149%, with limits of 70%-130%). As the CCVL was high and the associated samples did not have selenium detected, the results were reported.

Method(s) 7471B: The matrix spike (MS) recovery of sample WB2-3, S1, C 08.01.17 (180-68814-13) was above the control limits for mercury. The RPD between the spikes and the recoveries of the matrix spike duplicate (MSD) and laboratory control sample (LCS) were within the control limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

Job ID: 180-68814-2 (Continued)

Laboratory: TestAmerica Pittsburgh (Continued)

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
E	Result exceeded calibration range.

GC Semi VOA

Qualifier	Qualifier Description
*	ISTD response or retention time outside acceptable limits

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
F1	MS and/or MSD Recovery is outside acceptance limits.

General Chemistry

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc. TestAmerica Job ID: 180-68814-2
Project/Site: Former Sperry Remington Site - North IRM

Laboratory: TestAmerica Pittsburgh

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	11182	03-31-18

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
2540G		Solid	Percent Moisture
2540G		Solid	Percent Solids
8270D LL	3541	Solid	1,4-Dioxane

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68814-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-68814-11	WB2-3, S1, A 08.01.17	Solid	08/01/17 15:45	08/02/17 08:45
180-68814-12	WB2-3, S1, B 08.01.17	Solid	08/01/17 15:55	08/02/17 08:45
180-68814-13	WB2-3, S1, C 08.01.17	Solid	08/01/17 16:05	08/02/17 08:45
180-68814-14	WB2-3, S2, A 08.01.17	Solid	08/01/17 16:40	08/02/17 08:45
180-68814-15	WB2-3, S2, B 08.01.17	Solid	08/01/17 16:50	08/02/17 08:45
180-68814-16	WB2-3, S2, C 08.01.17	Solid	08/01/17 16:55	08/02/17 08:45
180-68814-17	TRIP BLANK #1	Water	08/01/17 00:00	08/02/17 08:45

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68814-2

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds (GC/MS)	SW846	TAL PIT
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL PIT
8270D LL	Semivolatile Organic Compounds by GC/MS - Low Level	SW846	TAL PIT
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL PIT
6010C	Metals (ICP)	SW846	TAL PIT
7471B	Mercury (CVAA)	SW846	TAL PIT
2540G	SM 2540G	SM22	TAL PIT
9014	Cyanide	SW846	TAL PIT

Protocol References:

SM22 = SM22

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68814-2

Client Sample ID: WB2-3, S1, A 08.01.17 — **Lab Sample ID: 180-68814-11**
Date Collected: 08/01/17 15:45 — **Matrix: Solid**
Date Received: 08/02/17 08:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218909	08/02/17 14:18	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: WB2-3, S1, A 08.01.17 — **Lab Sample ID: 180-68814-11**
Date Collected: 08/01/17 15:45 — **Matrix: Solid**
Date Received: 08/02/17 08:45 — **Percent Solids: 89.1**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.9373 g	5 mL	218980	08/03/17 06:00	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	218968	08/03/17 14:00	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: WB2-3, S1, B 08.01.17 — **Lab Sample ID: 180-68814-12**
Date Collected: 08/01/17 15:55 — **Matrix: Solid**
Date Received: 08/02/17 08:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218909	08/02/17 14:18	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: WB2-3, S1, B 08.01.17 — **Lab Sample ID: 180-68814-12**
Date Collected: 08/01/17 15:55 — **Matrix: Solid**
Date Received: 08/02/17 08:45 — **Percent Solids: 89.4**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.867 g	5 mL	218980	08/03/17 06:00	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	218968	08/03/17 14:22	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: WB2-3, S1, C 08.01.17 — **Lab Sample ID: 180-68814-13**
Date Collected: 08/01/17 16:05 — **Matrix: Solid**
Date Received: 08/02/17 08:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218909	08/02/17 14:18	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: WB2-3, S1, C 08.01.17 — **Lab Sample ID: 180-68814-13**
Date Collected: 08/01/17 16:05 — **Matrix: Solid**
Date Received: 08/02/17 08:45 — **Percent Solids: 88.6**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.2 g	0.5 mL	219075	08/04/17 04:25	BAP	TAL PIT

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68814-2

Client Sample ID: WB2-3, S1, C 08.01.17

Lab Sample ID: 180-68814-13
Date Collected: 08/01/17 16:05
Matrix: Solid
Date Received: 08/02/17 08:45
Percent Solids: 88.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8270D LL		1	1 mL	1 mL	219126	08/04/17 18:39	DLF	TAL PIT
	Instrument ID: CH71									
Total/NA	Prep	3541			15.2 g	20.0 mL	219077	08/04/17 04:29	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	219144	08/04/17 11:19	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	219145	08/04/17 11:21	JMO	TAL PIT
Total/NA	Analysis	8082A		1	1 mL	1.0 mL	219079	08/05/17 06:28	JMO	TAL PIT
	Instrument ID: CHGC8									
Total/NA	Prep	3050B			1.03 g	100 mL	218989	08/03/17 09:17	CRM	TAL PIT
Total/NA	Analysis	6010C		1			219329	08/07/17 09:10	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.65 g	100 mL	219480	08/08/17 17:30	RJR	TAL PIT
Total/NA	Analysis	7471B		1			219600	08/09/17 11:24	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.02 g	50 mL	219313	08/07/17 11:25	JAS	TAL PIT
Total/NA	Analysis	9014		1			219406	08/07/17 15:33	JAS	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: WB2-3, S2, A 08.01.17

Lab Sample ID: 180-68814-14
Date Collected: 08/01/17 16:40
Matrix: Solid
Date Received: 08/02/17 08:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218909	08/02/17 14:18	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: WB2-3, S2, A 08.01.17

Lab Sample ID: 180-68814-14
Date Collected: 08/01/17 16:40
Matrix: Solid
Date Received: 08/02/17 08:45
Percent Solids: 90.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.8827 g	5 mL	218980	08/03/17 06:00	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	218968	08/03/17 14:46	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: WB2-3, S2, B 08.01.17

Lab Sample ID: 180-68814-15
Date Collected: 08/01/17 16:50
Matrix: Solid
Date Received: 08/02/17 08:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218909	08/02/17 14:18	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68814-2

Client Sample ID: WB2-3, S2, B 08.01.17

Lab Sample ID: 180-68814-15
Date Collected: 08/01/17 16:50
Matrix: Solid
Date Received: 08/02/17 08:45
Percent Solids: 89.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.5425 g	5 mL	218980	08/03/17 06:00	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	218968	08/03/17 15:08	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: WB2-3, S2, C 08.01.17

Lab Sample ID: 180-68814-16
Date Collected: 08/01/17 16:55
Matrix: Solid
Date Received: 08/02/17 08:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218909	08/02/17 14:18	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: WB2-3, S2, C 08.01.17

Lab Sample ID: 180-68814-16
Date Collected: 08/01/17 16:55
Matrix: Solid
Date Received: 08/02/17 08:45
Percent Solids: 90.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.1 g	0.5 mL	219075	08/04/17 04:25	BAP	TAL PIT
Total/NA	Analysis	8270D LL		2	1 mL	1 mL	219211	08/05/17 17:21	DLF	TAL PIT
	Instrument ID: CH71									
Total/NA	Prep	3541			15.1 g	20.0 mL	219077	08/04/17 04:29	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	219144	08/04/17 11:19	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	219145	08/04/17 11:21	JMO	TAL PIT
Total/NA	Analysis	8082A		1			219079	08/05/17 06:48	JMO	TAL PIT
	Instrument ID: CHGC8									
Total/NA	Prep	3050B			0.98 g	100 mL	218989	08/03/17 09:17	CRM	TAL PIT
Total/NA	Analysis	6010C		1			219329	08/07/17 09:15	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.57 g	100 mL	219480	08/08/17 17:30	RJR	TAL PIT
Total/NA	Analysis	7471B		1			219600	08/09/17 11:30	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.04 g	50 mL	219313	08/07/17 11:25	JAS	TAL PIT
Total/NA	Analysis	9014		1			219406	08/07/17 15:38	JAS	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: TRIP BLANK #1

Lab Sample ID: 180-68814-17
Date Collected: 08/01/17 00:00
Matrix: Water
Date Received: 08/02/17 08:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	218943	08/03/17 09:32	FBB	TAL PIT
	Instrument ID: CHHP5									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68814-2

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Analyst References:

Lab: TAL PIT

Batch Type: Cleanup

JMO = John Oravec

Batch Type: Prep

BAP = Brian Pino

CRM = Caitlin McEvoy

JAS = Joshua Schmidt

KLG = Kathy Gordon

RJR = Ron Rosenbaum

Batch Type: Analysis

DLF = Donald Ferguson

FBB = Frank Bungard

JAS = Joshua Schmidt

JMO = John Oravec

JTL = Justin Landry

KLG = Kathy Gordon

RJG = Rob Good

RJR = Ron Rosenbaum

Client Sample ID: WB2-3, S1, A 08.01.17

Lab Sample ID: 180-68814-11

Date Collected: 08/01/17 15:45
Matrix: Solid
Date Received: 08/02/17 08:45
Percent Solids: 89.1

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.019	0.0030	mg/Kg	☼	08/03/17 06:00	08/03/17 14:00	1
Benzene	ND		0.0047	0.0019	mg/Kg	☼	08/03/17 06:00	08/03/17 14:00	1
2-Butanone (MEK)	ND		0.0047	0.0027	mg/Kg	☼	08/03/17 06:00	08/03/17 14:00	1
Carbon tetrachloride	ND		0.0047	0.0031	mg/Kg	☼	08/03/17 06:00	08/03/17 14:00	1
Chlorobenzene	ND		0.0047	0.0015	mg/Kg	☼	08/03/17 06:00	08/03/17 14:00	1
Chloroform	ND		0.0047	0.0020	mg/Kg	☼	08/03/17 06:00	08/03/17 14:00	1
cis-1,2-Dichloroethene	ND		0.0047	0.0015	mg/Kg	☼	08/03/17 06:00	08/03/17 14:00	1
1,2-Dichlorobenzene	ND		0.0047	0.0038	mg/Kg	☼	08/03/17 06:00	08/03/17 14:00	1
1,3-Dichlorobenzene	ND		0.0047	0.0015	mg/Kg	☼	08/03/17 06:00	08/03/17 14:00	1
1,4-Dichlorobenzene	ND		0.0047	0.00096	mg/Kg	☼	08/03/17 06:00	08/03/17 14:00	1
1,1-Dichloroethane	ND		0.0047	0.0017	mg/Kg	☼	08/03/17 06:00	08/03/17 14:00	1
1,2-Dichloroethane	ND		0.0047	0.0014	mg/Kg	☼	08/03/17 06:00	08/03/17 14:00	1
1,1-Dichloroethene	ND		0.0047	0.0027	mg/Kg	☼	08/03/17 06:00	08/03/17 14:00	1
Ethylbenzene	ND		0.0047	0.0020	mg/Kg	☼	08/03/17 06:00	08/03/17 14:00	1
Methylene Chloride	ND		0.0047	0.0022	mg/Kg	☼	08/03/17 06:00	08/03/17 14:00	1
Methyl tert-butyl ether	ND		0.0047	0.0035	mg/Kg	☼	08/03/17 06:00	08/03/17 14:00	1
n-Butylbenzene	ND		0.0047	0.0036	mg/Kg	☼	08/03/17 06:00	08/03/17 14:00	1
N-Propylbenzene	ND		0.0047	0.0020	mg/Kg	☼	08/03/17 06:00	08/03/17 14:00	1
sec-Butylbenzene	ND		0.0047	0.0023	mg/Kg	☼	08/03/17 06:00	08/03/17 14:00	1
tert-Butylbenzene	ND		0.0047	0.0017	mg/Kg	☼	08/03/17 06:00	08/03/17 14:00	1
Tetrachloroethene	ND		0.0047	0.0019	mg/Kg	☼	08/03/17 06:00	08/03/17 14:00	1
Toluene	ND		0.0047	0.0016	mg/Kg	☼	08/03/17 06:00	08/03/17 14:00	1
trans-1,2-Dichloroethene	ND		0.0047	0.0024	mg/Kg	☼	08/03/17 06:00	08/03/17 14:00	1
1,1,1-Trichloroethane	ND		0.0047	0.0024	mg/Kg	☼	08/03/17 06:00	08/03/17 14:00	1
Trichloroethene	ND		0.0047	0.0014	mg/Kg	☼	08/03/17 06:00	08/03/17 14:00	1
1,2,4-Trimethylbenzene	ND		0.0047	0.0013	mg/Kg	☼	08/03/17 06:00	08/03/17 14:00	1
1,3,5-Trimethylbenzene	ND		0.0047	0.0016	mg/Kg	☼	08/03/17 06:00	08/03/17 14:00	1
Vinyl chloride	ND		0.0047	0.0035	mg/Kg	☼	08/03/17 06:00	08/03/17 14:00	1
Xylenes, Total	ND		0.0095	0.0041	mg/Kg	☼	08/03/17 06:00	08/03/17 14:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*63 - 120*	*08/03/17 06:00*	*08/03/17 14:00*	*1*
Dibromofluoromethane (Surr)	*98*		*68 - 121*	*08/03/17 06:00*	*08/03/17 14:00*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*52 - 124*	*08/03/17 06:00*	*08/03/17 14:00*	*1*
Toluene-d8 (Surr)	*107*		*72 - 127*	*08/03/17 06:00*	*08/03/17 14:00*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**10.9**		0.1	0.1	%			08/02/17 14:18	1
Percent Solids	**89.1**		0.1	0.1	%			08/02/17 14:18	1

Client Sample ID: WB2-3, S1, B 08.01.17

Lab Sample ID: 180-68814-12

Date Collected: 08/01/17 15:55
Matrix: Solid
Date Received: 08/02/17 08:45
Percent Solids: 89.4

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.019	0.0030	mg/Kg	☼	08/03/17 06:00	08/03/17 14:22	1
Benzene	ND		0.0048	0.0019	mg/Kg	☼	08/03/17 06:00	08/03/17 14:22	1
2-Butanone (MEK)	ND		0.0048	0.0028	mg/Kg	☼	08/03/17 06:00	08/03/17 14:22	1

Client Sample ID: WB2-3, S1, B 08.01.17 — Lab Sample ID: 180-68814-12

Date Collected: 08/01/17 15:55 — **Matrix: Solid**
Date Received: 08/02/17 08:45 — **Percent Solids: 89.4**

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	ND		0.0048	0.0032	mg/Kg	☼	08/03/17 06:00	08/03/17 14:22	1
Chlorobenzene	ND		0.0048	0.0015	mg/Kg	☼	08/03/17 06:00	08/03/17 14:22	1
Chloroform	ND		0.0048	0.0020	mg/Kg	☼	08/03/17 06:00	08/03/17 14:22	1
cis-1,2-Dichloroethene	ND		0.0048	0.0015	mg/Kg	☼	08/03/17 06:00	08/03/17 14:22	1
1,2-Dichlorobenzene	ND		0.0048	0.0038	mg/Kg	☼	08/03/17 06:00	08/03/17 14:22	1
1,3-Dichlorobenzene	ND		0.0048	0.0015	mg/Kg	☼	08/03/17 06:00	08/03/17 14:22	1
1,4-Dichlorobenzene	ND		0.0048	0.00097	mg/Kg	☼	08/03/17 06:00	08/03/17 14:22	1
1,1-Dichloroethane	ND		0.0048	0.0017	mg/Kg	☼	08/03/17 06:00	08/03/17 14:22	1
1,2-Dichloroethane	ND		0.0048	0.0014	mg/Kg	☼	08/03/17 06:00	08/03/17 14:22	1
1,1-Dichloroethene	ND		0.0048	0.0027	mg/Kg	☼	08/03/17 06:00	08/03/17 14:22	1
Ethylbenzene	ND		0.0048	0.0021	mg/Kg	☼	08/03/17 06:00	08/03/17 14:22	1
Methylene Chloride	ND		0.0048	0.0022	mg/Kg	☼	08/03/17 06:00	08/03/17 14:22	1
Methyl tert-butyl ether	ND		0.0048	0.0035	mg/Kg	☼	08/03/17 06:00	08/03/17 14:22	1
n-Butylbenzene	ND		0.0048	0.0036	mg/Kg	☼	08/03/17 06:00	08/03/17 14:22	1
N-Propylbenzene	ND		0.0048	0.0020	mg/Kg	☼	08/03/17 06:00	08/03/17 14:22	1
sec-Butylbenzene	ND		0.0048	0.0023	mg/Kg	☼	08/03/17 06:00	08/03/17 14:22	1
tert-Butylbenzene	ND		0.0048	0.0017	mg/Kg	☼	08/03/17 06:00	08/03/17 14:22	1
Tetrachloroethene	ND		0.0048	0.0019	mg/Kg	☼	08/03/17 06:00	08/03/17 14:22	1
Toluene	ND		0.0048	0.0016	mg/Kg	☼	08/03/17 06:00	08/03/17 14:22	1
trans-1,2-Dichloroethene	ND		0.0048	0.0024	mg/Kg	☼	08/03/17 06:00	08/03/17 14:22	1
1,1,1-Trichloroethane	ND		0.0048	0.0024	mg/Kg	☼	08/03/17 06:00	08/03/17 14:22	1
Trichloroethene	ND		0.0048	0.0014	mg/Kg	☼	08/03/17 06:00	08/03/17 14:22	1
1,2,4-Trimethylbenzene	ND		0.0048	0.0013	mg/Kg	☼	08/03/17 06:00	08/03/17 14:22	1
1,3,5-Trimethylbenzene	ND		0.0048	0.0016	mg/Kg	☼	08/03/17 06:00	08/03/17 14:22	1
Vinyl chloride	ND		0.0048	0.0035	mg/Kg	☼	08/03/17 06:00	08/03/17 14:22	1
Xylenes, Total	ND		0.0095	0.0041	mg/Kg	☼	08/03/17 06:00	08/03/17 14:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*63 - 120*	*08/03/17 06:00*	*08/03/17 14:22*	*1*
Dibromofluoromethane (Surr)	*97*		*68 - 121*	*08/03/17 06:00*	*08/03/17 14:22*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*52 - 124*	*08/03/17 06:00*	*08/03/17 14:22*	*1*
Toluene-d8 (Surr)	*107*		*72 - 127*	*08/03/17 06:00*	*08/03/17 14:22*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**10.6**		0.1	0.1	%			08/02/17 14:18	1
Percent Solids	**89.4**		0.1	0.1	%			08/02/17 14:18	1

Client Sample ID: WB2-3, S1, C 08.01.17 — Lab Sample ID: 180-68814-13

Date Collected: 08/01/17 16:05 — **Matrix: Solid**
Date Received: 08/02/17 08:45 — **Percent Solids: 88.6**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.018**		0.0075	0.0025	mg/Kg	☼	08/04/17 04:25	08/04/17 18:39	1
Acenaphthylene	**0.082**		0.0075	0.0025	mg/Kg	☼	08/04/17 04:25	08/04/17 18:39	1
Anthracene	**0.13**	**F2 F1**	0.0075	0.0027	mg/Kg	☼	08/04/17 04:25	08/04/17 18:39	1
Benzo[a]anthracene	**0.38**	**F2 F1**	0.0075	0.0029	mg/Kg	☼	08/04/17 04:25	08/04/17 18:39	1
Benzo[a]pyrene	**0.38**	**F2 F1**	0.0075	0.0031	mg/Kg	☼	08/04/17 04:25	08/04/17 18:39	1
Benzo[b]fluoranthene	**0.52**	**F2 F1**	0.0075	0.0032	mg/Kg	☼	08/04/17 04:25	08/04/17 18:39	1

Client Sample ID: WB2-3, S1, C 08.01.17 **Lab Sample ID: 180-68814-13**
Date Collected: 08/01/17 16:05 **Matrix: Solid**
Date Received: 08/02/17 08:45 **Percent Solids: 88.6**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	**0.34**	**F2 F1**	0.0075	0.0032	mg/Kg	☼	08/04/17 04:25	08/04/17 18:39	1
Benzo[k]fluoranthene	**0.16**	**F2**	0.0075	0.0026	mg/Kg	☼	08/04/17 04:25	08/04/17 18:39	1
Chrysene	**0.43**	**F2 F1**	0.0075	0.0029	mg/Kg	☼	08/04/17 04:25	08/04/17 18:39	1
Dibenz(a,h)anthracene	**0.089**		0.0075	0.0031	mg/Kg	☼	08/04/17 04:25	08/04/17 18:39	1
Dibenzofuran	**0.022**	**J**	0.037	0.0030	mg/Kg	☼	08/04/17 04:25	08/04/17 18:39	1
2,4-Dinitrotoluene	ND		37	4.9	ug/Kg	☼	08/04/17 04:25	08/04/17 18:39	1
1,4-Dioxane	ND		0.074	0.0056	mg/Kg	☼	08/04/17 04:25	08/04/17 18:39	1
Fluoranthene	**0.63**	**F2 F1**	0.0075	0.0029	mg/Kg	☼	08/04/17 04:25	08/04/17 18:39	1
Fluorene	**0.021**		0.0075	0.0026	mg/Kg	☼	08/04/17 04:25	08/04/17 18:39	1
Hexachlorobenzene	ND		0.0075	0.0030	mg/Kg	☼	08/04/17 04:25	08/04/17 18:39	1
Hexachlorobutadiene	ND		7.5	2.3	ug/Kg	☼	08/04/17 04:25	08/04/17 18:39	1
Hexachloroethane	ND		37	2.7	ug/Kg	☼	08/04/17 04:25	08/04/17 18:39	1
Indeno[1,2,3-cd]pyrene	**0.31**	**F2 F1**	0.0075	0.0029	mg/Kg	☼	08/04/17 04:25	08/04/17 18:39	1
2-Methylphenol	ND		0.037	0.0033	mg/Kg	☼	08/04/17 04:25	08/04/17 18:39	1
Methylphenol, 3 & 4	ND		0.037	0.0033	mg/Kg	☼	08/04/17 04:25	08/04/17 18:39	1
Naphthalene	**0.041**		0.0075	0.0027	mg/Kg	☼	08/04/17 04:25	08/04/17 18:39	1
Nitrobenzene	ND		74	2.8	ug/Kg	☼	08/04/17 04:25	08/04/17 18:39	1
Pentachlorophenol	ND		0.19	0.070	mg/Kg	☼	08/04/17 04:25	08/04/17 18:39	1
Phenanthrene	**0.33**	**F2 F1**	0.0075	0.0031	mg/Kg	☼	08/04/17 04:25	08/04/17 18:39	1
Phenol	ND		0.037	0.0050	mg/Kg	☼	08/04/17 04:25	08/04/17 18:39	1
Pyrene	**0.57**	**F2 F1**	0.0075	0.0033	mg/Kg	☼	08/04/17 04:25	08/04/17 18:39	1
Pyridine	ND	F1	37	3.6	ug/Kg	☼	08/04/17 04:25	08/04/17 18:39	1
2,4,5-Trichlorophenol	ND		37	3.5	ug/Kg	☼	08/04/17 04:25	08/04/17 18:39	1
2,4,6-Trichlorophenol	ND		37	3.3	ug/Kg	☼	08/04/17 04:25	08/04/17 18:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*83*		*42 - 100*	*08/04/17 04:25*	*08/04/17 18:39*	*1*
2-Fluorophenol (Surr)	*64*		*21 - 107*	*08/04/17 04:25*	*08/04/17 18:39*	*1*
Nitrobenzene-d5 (Surr)	*76*		*35 - 109*	*08/04/17 04:25*	*08/04/17 18:39*	*1*
Phenol-d5 (Surr)	*56*		*29 - 105*	*08/04/17 04:25*	*08/04/17 18:39*	*1*
Terphenyl-d14 (Surr)	*70*		*36 - 113*	*08/04/17 04:25*	*08/04/17 18:39*	*1*
2,4,6-Tribromophenol (Surr)	*88*		*20 - 134*	*08/04/17 04:25*	*08/04/17 18:39*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND	*	0.019	0.0098	mg/Kg	☼	08/04/17 04:29	08/05/17 06:28	1
PCB-1221	ND	*	0.019	0.0096	mg/Kg	☼	08/04/17 04:29	08/05/17 06:28	1
PCB-1232	ND	*	0.019	0.0073	mg/Kg	☼	08/04/17 04:29	08/05/17 06:28	1
PCB-1242	ND	*	0.019	0.015	mg/Kg	☼	08/04/17 04:29	08/05/17 06:28	1
PCB-1248	**2.3**	*****	0.019	0.0089	mg/Kg	☼	08/04/17 04:29	08/05/17 06:28	1
PCB-1254	**1.4**	*****	0.019	0.0081	mg/Kg	☼	08/04/17 04:29	08/05/17 06:28	1
PCB-1260	**0.20**	*****	0.019	0.012	mg/Kg	☼	08/04/17 04:29	08/05/17 06:28	1
PCB-1262	ND	*	0.019	0.013	mg/Kg	☼	08/04/17 04:29	08/05/17 06:28	1
PCB-1268	ND	*	0.019	0.0057	mg/Kg	☼	08/04/17 04:29	08/05/17 06:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*80*	*	*23 - 150*	*08/04/17 04:29*	*08/05/17 06:28*	*1*
DCB Decachlorobiphenyl (Surr)	*85*	*	*23 - 150*	*08/04/17 04:29*	*08/05/17 06:28*	*1*
Tetrachloro-m-xylene (Surr)	*88*	*	*27 - 138*	*08/04/17 04:29*	*08/05/17 06:28*	*1*
Tetrachloro-m-xylene (Surr)	*80*	*	*27 - 138*	*08/04/17 04:29*	*08/05/17 06:28*	*1*

Client Sample ID: WB2-3, S1, C 08.01.17 — Lab Sample ID: 180-68814-13

Date Collected: 08/01/17 16:05 — **Matrix: Solid**
Date Received: 08/02/17 08:45 — **Percent Solids: 88.6**

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.8		1.1	0.48	mg/Kg	☼	08/03/17 09:17	08/07/17 09:10	1
Barium	86		22	5.9	mg/Kg	☼	08/03/17 09:17	08/07/17 09:10	1
Beryllium	0.40	J	0.44	0.11	mg/Kg	☼	08/03/17 09:17	08/07/17 09:10	1
Cadmium	0.16	J	0.55	0.12	mg/Kg	☼	08/03/17 09:17	08/07/17 09:10	1
Chromium	10		0.55	0.14	mg/Kg	☼	08/03/17 09:17	08/07/17 09:10	1
Copper	24		2.7	0.84	mg/Kg	☼	08/03/17 09:17	08/07/17 09:10	1
Lead	30		1.1	0.36	mg/Kg	☼	08/03/17 09:17	08/07/17 09:10	1
Manganese	460		1.6	0.44	mg/Kg	☼	08/03/17 09:17	08/07/17 09:10	1
Nickel	20		4.4	0.99	mg/Kg	☼	08/03/17 09:17	08/07/17 09:10	1
Selenium	ND	^	1.1	0.43	mg/Kg	☼	08/03/17 09:17	08/07/17 09:10	1
Silver	ND		0.55	0.18	mg/Kg	☼	08/03/17 09:17	08/07/17 09:10	1
Zinc	64		2.2	1.1	mg/Kg	☼	08/03/17 09:17	08/07/17 09:10	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.055	F1	0.034	0.0077	mg/Kg	☼	08/08/17 17:30	08/09/17 11:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	11.4		0.1	0.1	%			08/02/17 14:18	1
Percent Solids	88.6		0.1	0.1	%			08/02/17 14:18	1
Cyanide, Total	ND		0.55	0.17	mg/Kg	☼	08/07/17 11:25	08/07/17 15:33	1

Client Sample ID: WB2-3, S2, A 08.01.17 — Lab Sample ID: 180-68814-14

Date Collected: 08/01/17 16:40 — **Matrix: Solid**
Date Received: 08/02/17 08:45 — **Percent Solids: 90.6**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.019	0.0030	mg/Kg	☼	08/03/17 06:00	08/03/17 14:46	1
Benzene	ND		0.0047	0.0018	mg/Kg	☼	08/03/17 06:00	08/03/17 14:46	1
2-Butanone (MEK)	ND		0.0047	0.0027	mg/Kg	☼	08/03/17 06:00	08/03/17 14:46	1
Carbon tetrachloride	ND		0.0047	0.0031	mg/Kg	☼	08/03/17 06:00	08/03/17 14:46	1
Chlorobenzene	ND		0.0047	0.0015	mg/Kg	☼	08/03/17 06:00	08/03/17 14:46	1
Chloroform	ND		0.0047	0.0020	mg/Kg	☼	08/03/17 06:00	08/03/17 14:46	1
cis-1,2-Dichloroethene	ND		0.0047	0.0015	mg/Kg	☼	08/03/17 06:00	08/03/17 14:46	1
1,2-Dichlorobenzene	ND		0.0047	0.0038	mg/Kg	☼	08/03/17 06:00	08/03/17 14:46	1
1,3-Dichlorobenzene	ND		0.0047	0.0015	mg/Kg	☼	08/03/17 06:00	08/03/17 14:46	1
1,4-Dichlorobenzene	ND		0.0047	0.00096	mg/Kg	☼	08/03/17 06:00	08/03/17 14:46	1
1,1-Dichloroethane	ND		0.0047	0.0017	mg/Kg	☼	08/03/17 06:00	08/03/17 14:46	1
1,2-Dichloroethane	ND		0.0047	0.0014	mg/Kg	☼	08/03/17 06:00	08/03/17 14:46	1
1,1-Dichloroethene	ND		0.0047	0.0027	mg/Kg	☼	08/03/17 06:00	08/03/17 14:46	1
Ethylbenzene	ND		0.0047	0.0020	mg/Kg	☼	08/03/17 06:00	08/03/17 14:46	1
Methylene Chloride	ND		0.0047	0.0022	mg/Kg	☼	08/03/17 06:00	08/03/17 14:46	1
Methyl tert-butyl ether	ND		0.0047	0.0035	mg/Kg	☼	08/03/17 06:00	08/03/17 14:46	1
n-Butylbenzene	ND		0.0047	0.0036	mg/Kg	☼	08/03/17 06:00	08/03/17 14:46	1
N-Propylbenzene	ND		0.0047	0.0020	mg/Kg	☼	08/03/17 06:00	08/03/17 14:46	1
sec-Butylbenzene	ND		0.0047	0.0023	mg/Kg	☼	08/03/17 06:00	08/03/17 14:46	1
tert-Butylbenzene	ND		0.0047	0.0017	mg/Kg	☼	08/03/17 06:00	08/03/17 14:46	1
Tetrachloroethene	ND		0.0047	0.0019	mg/Kg	☼	08/03/17 06:00	08/03/17 14:46	1

Client Sample ID: WB2-3, S2, A 08.01.17 — Lab Sample ID: 180-68814-14

Date Collected: 08/01/17 16:40 — **Matrix: Solid**
Date Received: 08/02/17 08:45 — **Percent Solids: 90.6**

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		0.0047	0.0016	mg/Kg	☼	08/03/17 06:00	08/03/17 14:46	1
trans-1,2-Dichloroethene	ND		0.0047	0.0024	mg/Kg	☼	08/03/17 06:00	08/03/17 14:46	1
1,1,1-Trichloroethane	ND		0.0047	0.0024	mg/Kg	☼	08/03/17 06:00	08/03/17 14:46	1
Trichloroethene	ND		0.0047	0.0014	mg/Kg	☼	08/03/17 06:00	08/03/17 14:46	1
1,2,4-Trimethylbenzene	ND		0.0047	0.0013	mg/Kg	☼	08/03/17 06:00	08/03/17 14:46	1
1,3,5-Trimethylbenzene	ND		0.0047	0.0016	mg/Kg	☼	08/03/17 06:00	08/03/17 14:46	1
Vinyl chloride	ND		0.0047	0.0034	mg/Kg	☼	08/03/17 06:00	08/03/17 14:46	1
Xylenes, Total	ND		0.0094	0.0040	mg/Kg	☼	08/03/17 06:00	08/03/17 14:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*63 - 120*	*08/03/17 06:00*	*08/03/17 14:46*	*1*
Dibromofluoromethane (Surr)	*97*		*68 - 121*	*08/03/17 06:00*	*08/03/17 14:46*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*52 - 124*	*08/03/17 06:00*	*08/03/17 14:46*	*1*
Toluene-d8 (Surr)	*107*		*72 - 127*	*08/03/17 06:00*	*08/03/17 14:46*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.4**		0.1	0.1	%			08/02/17 14:18	1
Percent Solids	**90.6**		0.1	0.1	%			08/02/17 14:18	1

Client Sample ID: WB2-3, S2, B 08.01.17 — Lab Sample ID: 180-68814-15

Date Collected: 08/01/17 16:50 — **Matrix: Solid**
Date Received: 08/02/17 08:45 — **Percent Solids: 89.6**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.020	0.0032	mg/Kg	☼	08/03/17 06:00	08/03/17 15:08	1
Benzene	ND		0.0050	0.0020	mg/Kg	☼	08/03/17 06:00	08/03/17 15:08	1
2-Butanone (MEK)	ND		0.0050	0.0029	mg/Kg	☼	08/03/17 06:00	08/03/17 15:08	1
Carbon tetrachloride	ND		0.0050	0.0033	mg/Kg	☼	08/03/17 06:00	08/03/17 15:08	1
Chlorobenzene	ND		0.0050	0.0016	mg/Kg	☼	08/03/17 06:00	08/03/17 15:08	1
Chloroform	ND		0.0050	0.0021	mg/Kg	☼	08/03/17 06:00	08/03/17 15:08	1
cis-1,2-Dichloroethene	ND		0.0050	0.0016	mg/Kg	☼	08/03/17 06:00	08/03/17 15:08	1
1,2-Dichlorobenzene	ND		0.0050	0.0041	mg/Kg	☼	08/03/17 06:00	08/03/17 15:08	1
1,3-Dichlorobenzene	ND		0.0050	0.0016	mg/Kg	☼	08/03/17 06:00	08/03/17 15:08	1
1,4-Dichlorobenzene	ND		0.0050	0.0010	mg/Kg	☼	08/03/17 06:00	08/03/17 15:08	1
1,1-Dichloroethane	ND		0.0050	0.0018	mg/Kg	☼	08/03/17 06:00	08/03/17 15:08	1
1,2-Dichloroethane	ND		0.0050	0.0015	mg/Kg	☼	08/03/17 06:00	08/03/17 15:08	1
1,1-Dichloroethene	ND		0.0050	0.0029	mg/Kg	☼	08/03/17 06:00	08/03/17 15:08	1
Ethylbenzene	ND		0.0050	0.0022	mg/Kg	☼	08/03/17 06:00	08/03/17 15:08	1
Methylene Chloride	ND		0.0050	0.0024	mg/Kg	☼	08/03/17 06:00	08/03/17 15:08	1
Methyl tert-butyl ether	ND		0.0050	0.0037	mg/Kg	☼	08/03/17 06:00	08/03/17 15:08	1
n-Butylbenzene	ND		0.0050	0.0038	mg/Kg	☼	08/03/17 06:00	08/03/17 15:08	1
N-Propylbenzene	ND		0.0050	0.0021	mg/Kg	☼	08/03/17 06:00	08/03/17 15:08	1
sec-Butylbenzene	ND		0.0050	0.0025	mg/Kg	☼	08/03/17 06:00	08/03/17 15:08	1
tert-Butylbenzene	ND		0.0050	0.0018	mg/Kg	☼	08/03/17 06:00	08/03/17 15:08	1
Tetrachloroethene	ND		0.0050	0.0020	mg/Kg	☼	08/03/17 06:00	08/03/17 15:08	1
Toluene	ND		0.0050	0.0017	mg/Kg	☼	08/03/17 06:00	08/03/17 15:08	1
trans-1,2-Dichloroethene	ND		0.0050	0.0026	mg/Kg	☼	08/03/17 06:00	08/03/17 15:08	1
1,1,1-Trichloroethane	ND		0.0050	0.0025	mg/Kg	☼	08/03/17 06:00	08/03/17 15:08	1

Client Sample ID: WB2-3, S2, B 08.01.17 — Lab Sample ID: 180-68814-15

Date Collected: 08/01/17 16:50 — **Matrix: Solid**
Date Received: 08/02/17 08:45 — **Percent Solids: 89.6**

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	ND		0.0050	0.0015	mg/Kg	☼	08/03/17 06:00	08/03/17 15:08	1
1,2,4-Trimethylbenzene	ND		0.0050	0.0014	mg/Kg	☼	08/03/17 06:00	08/03/17 15:08	1
1,3,5-Trimethylbenzene	ND		0.0050	0.0017	mg/Kg	☼	08/03/17 06:00	08/03/17 15:08	1
Vinyl chloride	ND		0.0050	0.0037	mg/Kg	☼	08/03/17 06:00	08/03/17 15:08	1
Xylenes, Total	ND		0.010	0.0043	mg/Kg	☼	08/03/17 06:00	08/03/17 15:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*63 - 120*	*08/03/17 06:00*	*08/03/17 15:08*	*1*
Dibromofluoromethane (Surr)	*98*		*68 - 121*	*08/03/17 06:00*	*08/03/17 15:08*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*52 - 124*	*08/03/17 06:00*	*08/03/17 15:08*	*1*
Toluene-d8 (Surr)	*107*		*72 - 127*	*08/03/17 06:00*	*08/03/17 15:08*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**10.4**		0.1	0.1	%			08/02/17 14:18	1
Percent Solids	**89.6**		0.1	0.1	%			08/02/17 14:18	1

Client Sample ID: WB2-3, S2, C 08.01.17 — Lab Sample ID: 180-68814-16

Date Collected: 08/01/17 16:55 — **Matrix: Solid**
Date Received: 08/02/17 08:45 — **Percent Solids: 90.8**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.014**	**J**	0.015	0.0049	mg/Kg	☼	08/04/17 04:25	08/05/17 17:21	2
Acenaphthylene	**0.10**		0.015	0.0050	mg/Kg	☼	08/04/17 04:25	08/05/17 17:21	2
Anthracene	**0.10**		0.015	0.0054	mg/Kg	☼	08/04/17 04:25	08/05/17 17:21	2
Benzo[a]anthracene	**0.36**		0.015	0.0058	mg/Kg	☼	08/04/17 04:25	08/05/17 17:21	2
Benzo[a]pyrene	**0.41**		0.015	0.0060	mg/Kg	☼	08/04/17 04:25	08/05/17 17:21	2
Benzo[b]fluoranthene	**0.56**		0.015	0.0063	mg/Kg	☼	08/04/17 04:25	08/05/17 17:21	2
Benzo[g,h,i]perylene	**0.39**		0.015	0.0063	mg/Kg	☼	08/04/17 04:25	08/05/17 17:21	2
Benzo[k]fluoranthene	**0.18**		0.015	0.0050	mg/Kg	☼	08/04/17 04:25	08/05/17 17:21	2
Chrysene	**0.39**		0.015	0.0057	mg/Kg	☼	08/04/17 04:25	08/05/17 17:21	2
Dibenz(a,h)anthracene	**0.096**		0.015	0.0060	mg/Kg	☼	08/04/17 04:25	08/05/17 17:21	2
Dibenzofuran	**0.018**	**J**	0.072	0.0058	mg/Kg	☼	08/04/17 04:25	08/05/17 17:21	2
2,4-Dinitrotoluene	ND		72	9.7	ug/Kg	☼	08/04/17 04:25	08/05/17 17:21	2
1,4-Dioxane	ND		0.15	0.011	mg/Kg	☼	08/04/17 04:25	08/05/17 17:21	2
Fluoranthene	**0.54**		0.015	0.0058	mg/Kg	☼	08/04/17 04:25	08/05/17 17:21	2
Fluorene	**0.022**		0.015	0.0052	mg/Kg	☼	08/04/17 04:25	08/05/17 17:21	2
Hexachlorobenzene	ND		0.015	0.0059	mg/Kg	☼	08/04/17 04:25	08/05/17 17:21	2
Hexachlorobutadiene	ND		15	4.6	ug/Kg	☼	08/04/17 04:25	08/05/17 17:21	2
Hexachloroethane	ND		72	5.2	ug/Kg	☼	08/04/17 04:25	08/05/17 17:21	2
Indeno[1,2,3-cd]pyrene	**0.35**		0.015	0.0056	mg/Kg	☼	08/04/17 04:25	08/05/17 17:21	2
2-Methylphenol	ND		0.072	0.0064	mg/Kg	☼	08/04/17 04:25	08/05/17 17:21	2
Methylphenol, 3 & 4	ND		0.072	0.0065	mg/Kg	☼	08/04/17 04:25	08/05/17 17:21	2
Naphthalene	**0.059**		0.015	0.0052	mg/Kg	☼	08/04/17 04:25	08/05/17 17:21	2
Nitrobenzene	ND		150	5.6	ug/Kg	☼	08/04/17 04:25	08/05/17 17:21	2
Pentachlorophenol	ND		0.37	0.14	mg/Kg	☼	08/04/17 04:25	08/05/17 17:21	2
Phenanthrene	**0.19**		0.015	0.0061	mg/Kg	☼	08/04/17 04:25	08/05/17 17:21	2
Phenol	ND		0.072	0.0099	mg/Kg	☼	08/04/17 04:25	08/05/17 17:21	2
Pyrene	**0.46**		0.015	0.0065	mg/Kg	☼	08/04/17 04:25	08/05/17 17:21	2

Client Sample ID: WB2-3, S2, C 08.01.17 **Lab Sample ID: 180-68814-16**
Date Collected: 08/01/17 16:55 **Matrix: Solid**
Date Received: 08/02/17 08:45 **Percent Solids: 90.8**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyridine	ND		72	7.0	ug/Kg	☼	08/04/17 04:25	08/05/17 17:21	2
2,4,5-Trichlorophenol	ND		72	6.9	ug/Kg	☼	08/04/17 04:25	08/05/17 17:21	2
2,4,6-Trichlorophenol	ND		72	6.4	ug/Kg	☼	08/04/17 04:25	08/05/17 17:21	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*78*		*42 - 100*	*08/04/17 04:25*	*08/05/17 17:21*	*2*
2-Fluorophenol (Surr)	*59*		*21 - 107*	*08/04/17 04:25*	*08/05/17 17:21*	*2*
Nitrobenzene-d5 (Surr)	*74*		*35 - 109*	*08/04/17 04:25*	*08/05/17 17:21*	*2*
Phenol-d5 (Surr)	*53*		*29 - 105*	*08/04/17 04:25*	*08/05/17 17:21*	*2*
Terphenyl-d14 (Surr)	*68*		*36 - 113*	*08/04/17 04:25*	*08/05/17 17:21*	*2*
2,4,6-Tribromophenol (Surr)	*81*		*20 - 134*	*08/04/17 04:25*	*08/05/17 17:21*	*2*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.018	0.0097	mg/Kg	☼	08/04/17 04:29	08/05/17 06:48	1
PCB-1221	ND		0.018	0.0094	mg/Kg	☼	08/04/17 04:29	08/05/17 06:48	1
PCB-1232	ND		0.018	0.0072	mg/Kg	☼	08/04/17 04:29	08/05/17 06:48	1
PCB-1242	ND		0.018	0.014	mg/Kg	☼	08/04/17 04:29	08/05/17 06:48	1
PCB-1248	**2.3**		0.018	0.0087	mg/Kg	☼	08/04/17 04:29	08/05/17 06:48	1
PCB-1254	**1.1**		0.018	0.0080	mg/Kg	☼	08/04/17 04:29	08/05/17 06:48	1
PCB-1260	**0.32**		0.018	0.012	mg/Kg	☼	08/04/17 04:29	08/05/17 06:48	1
PCB-1262	ND		0.018	0.013	mg/Kg	☼	08/04/17 04:29	08/05/17 06:48	1
PCB-1268	ND		0.018	0.0056	mg/Kg	☼	08/04/17 04:29	08/05/17 06:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*82*		*23 - 150*	*08/04/17 04:29*	*08/05/17 06:48*	*1*
DCB Decachlorobiphenyl (Surr)	*85*		*23 - 150*	*08/04/17 04:29*	*08/05/17 06:48*	*1*
Tetrachloro-m-xylene (Surr)	*90*		*27 - 138*	*08/04/17 04:29*	*08/05/17 06:48*	*1*
Tetrachloro-m-xylene (Surr)	*77*		*27 - 138*	*08/04/17 04:29*	*08/05/17 06:48*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**5.2**		1.1	0.50	mg/Kg	☼	08/03/17 09:17	08/07/17 09:15	1
Barium	**95**		22	6.0	mg/Kg	☼	08/03/17 09:17	08/07/17 09:15	1
Beryllium	**0.30**	**J**	0.45	0.12	mg/Kg	☼	08/03/17 09:17	08/07/17 09:15	1
Cadmium	**0.16**	**J**	0.56	0.13	mg/Kg	☼	08/03/17 09:17	08/07/17 09:15	1
Chromium	**9.1**		0.56	0.15	mg/Kg	☼	08/03/17 09:17	08/07/17 09:15	1
Copper	**32**		2.8	0.86	mg/Kg	☼	08/03/17 09:17	08/07/17 09:15	1
Lead	**41**		1.1	0.37	mg/Kg	☼	08/03/17 09:17	08/07/17 09:15	1
Manganese	**350**		1.7	0.46	mg/Kg	☼	08/03/17 09:17	08/07/17 09:15	1
Nickel	**17**		4.5	1.0	mg/Kg	☼	08/03/17 09:17	08/07/17 09:15	1
Selenium	ND	^	1.1	0.45	mg/Kg	☼	08/03/17 09:17	08/07/17 09:15	1
Silver	ND		0.56	0.19	mg/Kg	☼	08/03/17 09:17	08/07/17 09:15	1
Zinc	**83**		2.2	1.1	mg/Kg	☼	08/03/17 09:17	08/07/17 09:15	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.042**		0.038	0.0086	mg/Kg	☼	08/08/17 17:30	08/09/17 11:30	1

Client Sample ID: WB2-3, S2, C 08.01.17 — Lab Sample ID: 180-68814-16

Date Collected: 08/01/17 16:55 — **Matrix: Solid**
Date Received: 08/02/17 08:45 — **Percent Solids: 90.8**

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.2		0.1	0.1	%			08/02/17 14:18	1
Percent Solids	90.8		0.1	0.1	%			08/02/17 14:18	1
Cyanide, Total	0.26	J	0.53	0.16	mg/Kg	☼	08/07/17 11:25	08/07/17 15:38	1

Client Sample ID: TRIP BLANK #1 — Lab Sample ID: 180-68814-17

Date Collected: 08/01/17 00:00 — **Matrix: Water**
Date Received: 08/02/17 08:45

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	4.6	J	5.0	3.1	ug/L			08/03/17 09:32	1
Benzene	ND		1.0	0.18	ug/L			08/03/17 09:32	1
2-Butanone (MEK)	ND		5.0	2.6	ug/L			08/03/17 09:32	1
Carbon tetrachloride	ND		1.0	0.56	ug/L			08/03/17 09:32	1
Chlorobenzene	ND		1.0	0.15	ug/L			08/03/17 09:32	1
Chloroform	ND		1.0	0.27	ug/L			08/03/17 09:32	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			08/03/17 09:32	1
1,2-Dichlorobenzene	ND		1.0	0.23	ug/L			08/03/17 09:32	1
1,3-Dichlorobenzene	ND		1.0	0.21	ug/L			08/03/17 09:32	1
1,4-Dichlorobenzene	ND		1.0	0.24	ug/L			08/03/17 09:32	1
1,1-Dichloroethane	ND		1.0	0.34	ug/L			08/03/17 09:32	1
1,2-Dichloroethane	ND		1.0	0.24	ug/L			08/03/17 09:32	1
1,1-Dichloroethene	ND		1.0	0.32	ug/L			08/03/17 09:32	1
Ethylbenzene	ND		1.0	0.25	ug/L			08/03/17 09:32	1
Methylene Chloride	ND		1.0	0.94	ug/L			08/03/17 09:32	1
Methyl tert-butyl ether	ND		1.0	0.20	ug/L			08/03/17 09:32	1
n-Butylbenzene	ND		1.0	0.22	ug/L			08/03/17 09:32	1
N-Propylbenzene	ND		1.0	0.20	ug/L			08/03/17 09:32	1
sec-Butylbenzene	ND		1.0	0.22	ug/L			08/03/17 09:32	1
tert-Butylbenzene	ND		1.0	0.17	ug/L			08/03/17 09:32	1
Tetrachloroethene	ND		1.0	0.24	ug/L			08/03/17 09:32	1
Toluene	ND		1.0	0.16	ug/L			08/03/17 09:32	1
trans-1,2-Dichloroethene	ND		1.0	0.20	ug/L			08/03/17 09:32	1
1,1,1-Trichloroethane	ND		1.0	0.27	ug/L			08/03/17 09:32	1
Trichloroethene	ND		1.0	0.20	ug/L			08/03/17 09:32	1
1,2,4-Trimethylbenzene	ND		1.0	0.18	ug/L			08/03/17 09:32	1
1,3,5-Trimethylbenzene	ND		1.0	0.17	ug/L			08/03/17 09:32	1
Vinyl chloride	ND		1.0	0.17	ug/L			08/03/17 09:32	1
Xylenes, Total	ND		2.0	0.27	ug/L			08/03/17 09:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*72 - 120*		*08/03/17 09:32*	*1*
Dibromofluoromethane (Surr)	*98*		*77 - 127*		*08/03/17 09:32*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*72 - 134*		*08/03/17 09:32*	*1*
Toluene-d8 (Surr)	*90*		*80 - 120*		*08/03/17 09:32*	*1*

Method: 8260C - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 180-218943/5
Matrix: Water
Analysis Batch: 218943

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		5.0	3.1	ug/L			08/03/17 05:08	1
Benzene	ND		1.0	0.18	ug/L			08/03/17 05:08	1
2-Butanone (MEK)	ND		5.0	2.6	ug/L			08/03/17 05:08	1
Carbon tetrachloride	ND		1.0	0.56	ug/L			08/03/17 05:08	1
Chlorobenzene	ND		1.0	0.15	ug/L			08/03/17 05:08	1
Chloroform	ND		1.0	0.27	ug/L			08/03/17 05:08	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			08/03/17 05:08	1
1,2-Dichlorobenzene	ND		1.0	0.23	ug/L			08/03/17 05:08	1
1,3-Dichlorobenzene	ND		1.0	0.21	ug/L			08/03/17 05:08	1
1,4-Dichlorobenzene	ND		1.0	0.24	ug/L			08/03/17 05:08	1
1,1-Dichloroethane	ND		1.0	0.34	ug/L			08/03/17 05:08	1
1,2-Dichloroethane	ND		1.0	0.24	ug/L			08/03/17 05:08	1
1,1-Dichloroethene	ND		1.0	0.32	ug/L			08/03/17 05:08	1
Ethylbenzene	ND		1.0	0.25	ug/L			08/03/17 05:08	1
Methylene Chloride	ND		1.0	0.94	ug/L			08/03/17 05:08	1
Methyl tert-butyl ether	ND		1.0	0.20	ug/L			08/03/17 05:08	1
n-Butylbenzene	ND		1.0	0.22	ug/L			08/03/17 05:08	1
N-Propylbenzene	ND		1.0	0.20	ug/L			08/03/17 05:08	1
sec-Butylbenzene	ND		1.0	0.22	ug/L			08/03/17 05:08	1
tert-Butylbenzene	ND		1.0	0.17	ug/L			08/03/17 05:08	1
Tetrachloroethene	ND		1.0	0.24	ug/L			08/03/17 05:08	1
Toluene	ND		1.0	0.16	ug/L			08/03/17 05:08	1
trans-1,2-Dichloroethene	ND		1.0	0.20	ug/L			08/03/17 05:08	1
1,1,1-Trichloroethane	ND		1.0	0.27	ug/L			08/03/17 05:08	1
Trichloroethene	ND		1.0	0.20	ug/L			08/03/17 05:08	1
1,2,4-Trimethylbenzene	ND		1.0	0.18	ug/L			08/03/17 05:08	1
1,3,5-Trimethylbenzene	ND		1.0	0.17	ug/L			08/03/17 05:08	1
Vinyl chloride	ND		1.0	0.17	ug/L			08/03/17 05:08	1
Xylenes, Total	ND		2.0	0.27	ug/L			08/03/17 05:08	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*72 - 120*		*08/03/17 05:08*	*1*
Dibromofluoromethane (Surr)	*96*		*77 - 127*		*08/03/17 05:08*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*72 - 134*		*08/03/17 05:08*	*1*
Toluene-d8 (Surr)	*90*		*80 - 120*		*08/03/17 05:08*	*1*

Lab Sample ID: LCS 180-218943/3
Matrix: Water
Analysis Batch: 218943

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	20.0	16.2		ug/L		81	10 - 150
Benzene	10.0	8.67		ug/L		87	80 - 121
2-Butanone (MEK)	20.0	17.2		ug/L		86	41 - 150
Carbon tetrachloride	10.0	9.62		ug/L		96	59 - 145
Chlorobenzene	10.0	9.05		ug/L		91	80 - 120
Chloroform	10.0	8.83		ug/L		88	78 - 122
cis-1,2-Dichloroethene	10.0	8.56		ug/L		86	80 - 120

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 180-218943/3
Matrix: Water
Analysis Batch: 218943

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichlorobenzene	10.0	8.46		ug/L		85	80 - 120
1,3-Dichlorobenzene	10.0	8.44		ug/L		84	80 - 120
1,4-Dichlorobenzene	10.0	8.66		ug/L		87	80 - 120
1,1-Dichloroethane	10.0	9.19		ug/L		92	76 - 126
1,2-Dichloroethane	10.0	9.34		ug/L		93	72 - 126
1,1-Dichloroethene	10.0	8.85		ug/L		88	71 - 122
Ethylbenzene	10.0	9.06		ug/L		91	80 - 123
Methylene Chloride	10.0	8.40		ug/L		84	71 - 129
Methyl tert-butyl ether	10.0	9.19		ug/L		92	68 - 124
n-Butylbenzene	10.0	9.18		ug/L		92	75 - 120
N-Propylbenzene	10.0	8.80		ug/L		88	78 - 121
sec-Butylbenzene	10.0	9.04		ug/L		90	80 - 121
tert-Butylbenzene	10.0	8.92		ug/L		89	79 - 120
Tetrachloroethene	10.0	9.04		ug/L		90	80 - 122
Toluene	10.0	9.23		ug/L		92	80 - 125
trans-1,2-Dichloroethene	10.0	8.89		ug/L		89	80 - 121
1,1,1-Trichloroethane	10.0	9.26		ug/L		93	57 - 128
Trichloroethene	10.0	8.74		ug/L		87	79 - 120
1,2,4-Trimethylbenzene	10.0	8.80		ug/L		88	80 - 120
1,3,5-Trimethylbenzene	10.0	8.98		ug/L		90	80 - 122
Vinyl chloride	10.0	9.45		ug/L		94	61 - 138
Xylenes, Total	20.0	17.8		ug/L		89	80 - 123

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*93*		*72 - 120*
Dibromofluoromethane (Surr)	*90*		*77 - 127*
1,2-Dichloroethane-d4 (Surr)	*94*		*72 - 134*
Toluene-d8 (Surr)	*97*		*80 - 120*

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 180-218968/9
Matrix: Solid
Analysis Batch: 218968

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.020	0.0032	mg/Kg			08/03/17 09:06	1
Benzene	ND		0.0050	0.0020	mg/Kg			08/03/17 09:06	1
2-Butanone (MEK)	ND		0.0050	0.0029	mg/Kg			08/03/17 09:06	1
Carbon tetrachloride	ND		0.0050	0.0033	mg/Kg			08/03/17 09:06	1
Chlorobenzene	ND		0.0050	0.0016	mg/Kg			08/03/17 09:06	1
Chloroform	ND		0.0050	0.0021	mg/Kg			08/03/17 09:06	1
cis-1,2-Dichloroethene	ND		0.0050	0.0016	mg/Kg			08/03/17 09:06	1
1,2-Dichlorobenzene	ND		0.0050	0.0040	mg/Kg			08/03/17 09:06	1
1,3-Dichlorobenzene	ND		0.0050	0.0016	mg/Kg			08/03/17 09:06	1
1,4-Dichlorobenzene	ND		0.0050	0.0010	mg/Kg			08/03/17 09:06	1
1,1-Dichloroethane	ND		0.0050	0.0018	mg/Kg			08/03/17 09:06	1
1,2-Dichloroethane	ND		0.0050	0.0015	mg/Kg			08/03/17 09:06	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 180-218968/9
Matrix: Solid
Analysis Batch: 218968

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		0.0050	0.0029	mg/Kg			08/03/17 09:06	1
Ethylbenzene	ND		0.0050	0.0022	mg/Kg			08/03/17 09:06	1
Methylene Chloride	ND		0.0050	0.0024	mg/Kg			08/03/17 09:06	1
Methyl tert-butyl ether	ND		0.0050	0.0037	mg/Kg			08/03/17 09:06	1
n-Butylbenzene	ND		0.0050	0.0038	mg/Kg			08/03/17 09:06	1
N-Propylbenzene	ND		0.0050	0.0021	mg/Kg			08/03/17 09:06	1
sec-Butylbenzene	ND		0.0050	0.0024	mg/Kg			08/03/17 09:06	1
tert-Butylbenzene	ND		0.0050	0.0018	mg/Kg			08/03/17 09:06	1
Tetrachloroethene	ND		0.0050	0.0020	mg/Kg			08/03/17 09:06	1
Toluene	ND		0.0050	0.0017	mg/Kg			08/03/17 09:06	1
trans-1,2-Dichloroethene	ND		0.0050	0.0025	mg/Kg			08/03/17 09:06	1
1,1,1-Trichloroethane	ND		0.0050	0.0025	mg/Kg			08/03/17 09:06	1
Trichloroethene	ND		0.0050	0.0015	mg/Kg			08/03/17 09:06	1
1,2,4-Trimethylbenzene	ND		0.0050	0.0013	mg/Kg			08/03/17 09:06	1
1,3,5-Trimethylbenzene	ND		0.0050	0.0017	mg/Kg			08/03/17 09:06	1
Vinyl chloride	ND		0.0050	0.0037	mg/Kg			08/03/17 09:06	1
Xylenes, Total	ND		0.010	0.0043	mg/Kg			08/03/17 09:06	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*63 - 120*		*08/03/17 09:06*	*1*
Dibromofluoromethane (Surr)	*102*		*68 - 121*		*08/03/17 09:06*	*1*
1,2-Dichloroethane-d4 (Surr)	*120*		*52 - 124*		*08/03/17 09:06*	*1*
Toluene-d8 (Surr)	*104*		*72 - 127*		*08/03/17 09:06*	*1*

Lab Sample ID: LCS 180-218968/4
Matrix: Solid
Analysis Batch: 218968

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0400	0.0348		mg/Kg		87	20 - 150
Benzene	0.0400	0.0415		mg/Kg		104	77 - 120
2-Butanone (MEK)	0.0400	0.0328		mg/Kg		82	35 - 149
Carbon tetrachloride	0.0400	0.0465		mg/Kg		116	69 - 122
Chlorobenzene	0.0400	0.0406		mg/Kg		102	79 - 120
Chloroform	0.0400	0.0450		mg/Kg		112	72 - 120
cis-1,2-Dichloroethene	0.0400	0.0416		mg/Kg		104	80 - 118
1,2-Dichlorobenzene	0.0400	0.0396		mg/Kg		99	71 - 124
1,3-Dichlorobenzene	0.0400	0.0400		mg/Kg		100	75 - 118
1,4-Dichlorobenzene	0.0400	0.0401		mg/Kg		100	77 - 116
1,1-Dichloroethane	0.0400	0.0448		mg/Kg		112	66 - 124
1,2-Dichloroethane	0.0400	0.0490		mg/Kg		123	61 - 127
1,1-Dichloroethene	0.0400	0.0408		mg/Kg		102	59 - 129
Ethylbenzene	0.0400	0.0407		mg/Kg		102	78 - 125
Methylene Chloride	0.0400	0.0407		mg/Kg		102	58 - 127
Methyl tert-butyl ether	0.0400	0.0454		mg/Kg		113	48 - 132
n-Butylbenzene	0.0400	0.0462		mg/Kg		115	59 - 145
N-Propylbenzene	0.0400	0.0428		mg/Kg		107	80 - 120
sec-Butylbenzene	0.0400	0.0444		mg/Kg		111	70 - 130

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 180-218968/4
Matrix: Solid
Analysis Batch: 218968

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
tert-Butylbenzene			0.0400	0.0437		mg/Kg		109	74 - 133		
Tetrachloroethene			0.0400	0.0369		mg/Kg		92	78 - 129		
Toluene			0.0400	0.0415		mg/Kg		104	78 - 124		
trans-1,2-Dichloroethene			0.0400	0.0433		mg/Kg		108	77 - 121		
1,1,1-Trichloroethane			0.0400	0.0478		mg/Kg		120	67 - 126		
Trichloroethene			0.0400	0.0386		mg/Kg		96	76 - 119		
1,2,4-Trimethylbenzene			0.0400	0.0432		mg/Kg		108	80 - 121		
1,3,5-Trimethylbenzene			0.0400	0.0436		mg/Kg		109	68 - 133		
Vinyl chloride			0.0400	0.0366		mg/Kg		91	63 - 124		
Xylenes, Total			0.0800	0.0807		mg/Kg		101	83 - 126		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*63 - 120*
Dibromofluoromethane (Surr)	*101*		*68 - 121*
1,2-Dichloroethane-d4 (Surr)	*114*		*52 - 124*
Toluene-d8 (Surr)	*100*		*72 - 127*

Lab Sample ID: LCSD 180-218968/5
Matrix: Solid
Analysis Batch: 218968

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone			0.0400	0.0312		mg/Kg		78	20 - 150	11	40
Benzene			0.0400	0.0383		mg/Kg		96	77 - 120	8	20
2-Butanone (MEK)			0.0400	0.0296		mg/Kg		74	35 - 149	10	36
Carbon tetrachloride			0.0400	0.0437		mg/Kg		109	69 - 122	6	22
Chlorobenzene			0.0400	0.0381		mg/Kg		95	79 - 120	7	20
Chloroform			0.0400	0.0415		mg/Kg		104	72 - 120	8	25
cis-1,2-Dichloroethene			0.0400	0.0388		mg/Kg		97	80 - 118	7	20
1,2-Dichlorobenzene			0.0400	0.0370		mg/Kg		93	71 - 124	7	22
1,3-Dichlorobenzene			0.0400	0.0366		mg/Kg		92	75 - 118	9	20
1,4-Dichlorobenzene			0.0400	0.0368		mg/Kg		92	77 - 116	9	20
1,1-Dichloroethane			0.0400	0.0417		mg/Kg		104	66 - 124	7	23
1,2-Dichloroethane			0.0400	0.0465		mg/Kg		116	61 - 127	5	23
1,1-Dichloroethene			0.0400	0.0370		mg/Kg		93	59 - 129	10	25
Ethylbenzene			0.0400	0.0380		mg/Kg		95	78 - 125	7	21
Methylene Chloride			0.0400	0.0386		mg/Kg		97	58 - 127	5	28
Methyl tert-butyl ether			0.0400	0.0433		mg/Kg		108	48 - 132	5	36
n-Butylbenzene			0.0400	0.0425		mg/Kg		106	59 - 145	8	24
N-Propylbenzene			0.0400	0.0388		mg/Kg		97	80 - 120	10	20
sec-Butylbenzene			0.0400	0.0405		mg/Kg		101	70 - 130	9	21
tert-Butylbenzene			0.0400	0.0402		mg/Kg		101	74 - 133	8	22
Tetrachloroethene			0.0400	0.0343		mg/Kg		86	78 - 129	7	20
Toluene			0.0400	0.0383		mg/Kg		96	78 - 124	8	21
trans-1,2-Dichloroethene			0.0400	0.0403		mg/Kg		101	77 - 121	7	20
1,1,1-Trichloroethane			0.0400	0.0452		mg/Kg		113	67 - 126	6	31
Trichloroethene			0.0400	0.0366		mg/Kg		92	76 - 119	5	21
1,2,4-Trimethylbenzene			0.0400	0.0392		mg/Kg		98	80 - 121	10	20

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 180-218968/5
Matrix: Solid
Analysis Batch: 218968

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,3,5-Trimethylbenzene			0.0400	0.0396		mg/Kg		99	68 - 133	10	21
Vinyl chloride			0.0400	0.0345		mg/Kg		86	63 - 124	6	27
Xylenes, Total			0.0800	0.0758		mg/Kg		95	83 - 126	6	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*63 - 120*
Dibromofluoromethane (Surr)	*95*		*68 - 121*
1,2-Dichloroethane-d4 (Surr)	*107*		*52 - 124*
Toluene-d8 (Surr)	*94*		*72 - 127*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Lab Sample ID: MB 180-219075/1-A
Matrix: Solid
Analysis Batch: 219126

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 219075

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0067	0.0022	mg/Kg		08/04/17 04:25	08/04/17 12:25	1
Acenaphthylene	ND		0.0067	0.0023	mg/Kg		08/04/17 04:25	08/04/17 12:25	1
Anthracene	ND		0.0067	0.0025	mg/Kg		08/04/17 04:25	08/04/17 12:25	1
Benzo[a]anthracene	ND		0.0067	0.0026	mg/Kg		08/04/17 04:25	08/04/17 12:25	1
Benzo[a]pyrene	ND		0.0067	0.0028	mg/Kg		08/04/17 04:25	08/04/17 12:25	1
Benzo[b]fluoranthene	ND		0.0067	0.0029	mg/Kg		08/04/17 04:25	08/04/17 12:25	1
Benzo[g,h,i]perylene	ND		0.0067	0.0029	mg/Kg		08/04/17 04:25	08/04/17 12:25	1
Benzo[k]fluoranthene	ND		0.0067	0.0023	mg/Kg		08/04/17 04:25	08/04/17 12:25	1
Chrysene	ND		0.0067	0.0026	mg/Kg		08/04/17 04:25	08/04/17 12:25	1
Dibenz(a,h)anthracene	ND		0.0067	0.0028	mg/Kg		08/04/17 04:25	08/04/17 12:25	1
Dibenzofuran	ND		0.033	0.0027	mg/Kg		08/04/17 04:25	08/04/17 12:25	1
2,4-Dinitrotoluene	ND		33	4.4	ug/Kg		08/04/17 04:25	08/04/17 12:25	1
1,4-Dioxane	ND		0.067	0.0050	mg/Kg		08/04/17 04:25	08/04/17 12:25	1
Fluoranthene	ND		0.0067	0.0026	mg/Kg		08/04/17 04:25	08/04/17 12:25	1
Fluorene	ND		0.0067	0.0024	mg/Kg		08/04/17 04:25	08/04/17 12:25	1
Hexachlorobenzene	ND		0.0067	0.0027	mg/Kg		08/04/17 04:25	08/04/17 12:25	1
Hexachlorobutadiene	ND		6.7	2.1	ug/Kg		08/04/17 04:25	08/04/17 12:25	1
Hexachloroethane	ND		33	2.4	ug/Kg		08/04/17 04:25	08/04/17 12:25	1
Indeno[1,2,3-cd]pyrene	ND		0.0067	0.0026	mg/Kg		08/04/17 04:25	08/04/17 12:25	1
2-Methylphenol	ND		0.033	0.0029	mg/Kg		08/04/17 04:25	08/04/17 12:25	1
Methylphenol, 3 & 4	ND		0.033	0.0030	mg/Kg		08/04/17 04:25	08/04/17 12:25	1
Naphthalene	ND		0.0067	0.0024	mg/Kg		08/04/17 04:25	08/04/17 12:25	1
Nitrobenzene	ND		67	2.5	ug/Kg		08/04/17 04:25	08/04/17 12:25	1
Pentachlorophenol	ND		0.17	0.063	mg/Kg		08/04/17 04:25	08/04/17 12:25	1
Phenanthrene	ND		0.0067	0.0028	mg/Kg		08/04/17 04:25	08/04/17 12:25	1
Phenol	ND		0.033	0.0045	mg/Kg		08/04/17 04:25	08/04/17 12:25	1
Pyrene	ND		0.0067	0.0030	mg/Kg		08/04/17 04:25	08/04/17 12:25	1
Pyridine	ND		33	3.2	ug/Kg		08/04/17 04:25	08/04/17 12:25	1
2,4,5-Trichlorophenol	ND		33	3.2	ug/Kg		08/04/17 04:25	08/04/17 12:25	1
2,4,6-Trichlorophenol	ND		33	2.9	ug/Kg		08/04/17 04:25	08/04/17 12:25	1

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: MB 180-219075/1-A
Matrix: Solid
Analysis Batch: 219126

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 219075

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	83		42 - 100	08/04/17 04:25	08/04/17 12:25	1
2-Fluorophenol (Surr)	81		21 - 107	08/04/17 04:25	08/04/17 12:25	1
Nitrobenzene-d5 (Surr)	78		35 - 109	08/04/17 04:25	08/04/17 12:25	1
Phenol-d5 (Surr)	73		29 - 105	08/04/17 04:25	08/04/17 12:25	1
Terphenyl-d14 (Surr)	82		36 - 113	08/04/17 04:25	08/04/17 12:25	1
2,4,6-Tribromophenol (Surr)	92		20 - 134	08/04/17 04:25	08/04/17 12:25	1

Lab Sample ID: LCS 180-219075/2-A
Matrix: Solid
Analysis Batch: 219126

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 219075

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	0.667	0.458		mg/Kg		69	39 - 100
Acenaphthylene	0.667	0.435		mg/Kg		65	42 - 100
Anthracene	0.667	0.474		mg/Kg		71	43 - 100
Benzo[a]anthracene	0.667	0.474		mg/Kg		71	43 - 100
Benzo[a]pyrene	0.667	0.449		mg/Kg		67	43 - 100
Benzo[b]fluoranthene	0.667	0.435		mg/Kg		65	40 - 100
Benzo[g,h,i]perylene	0.667	0.410		mg/Kg		61	41 - 102
Benzo[k]fluoranthene	0.667	0.435		mg/Kg		65	44 - 100
Chrysene	0.667	0.438		mg/Kg		66	44 - 100
Dibenz(a,h)anthracene	0.667	0.428		mg/Kg		64	40 - 104
Dibenzofuran	0.667	0.428		mg/Kg		64	42 - 100
2,4-Dinitrotoluene	667	444		ug/Kg		67	42 - 110
1,4-Dioxane	0.667	0.488		mg/Kg		73	19 - 107
Fluoranthene	0.667	0.455		mg/Kg		68	41 - 104
Fluorene	0.667	0.446		mg/Kg		67	41 - 100
Hexachlorobenzene	0.667	0.539		mg/Kg		81	43 - 100
Hexachlorobutadiene	667	560		ug/Kg		84	35 - 100
Hexachloroethane	667	398		ug/Kg		60	35 - 100
Indeno[1,2,3-cd]pyrene	0.667	0.435		mg/Kg		65	41 - 104
2-Methylphenol	0.667	0.399		mg/Kg		60	38 - 100
Methylphenol, 3 & 4	0.667	0.391		mg/Kg		59	40 - 100
Naphthalene	0.667	0.424		mg/Kg		64	38 - 100
Nitrobenzene	667	434		ug/Kg		65	34 - 100
Pentachlorophenol	1.33	1.05		mg/Kg		79	34 - 102
Phenanthrene	0.667	0.462		mg/Kg		69	41 - 100
Phenol	0.667	0.390		mg/Kg		58	36 - 100
Pyrene	0.667	0.452		mg/Kg		68	42 - 100
Pyridine	1330	1040		ug/Kg		78	25 - 119
2,4,5-Trichlorophenol	667	521		ug/Kg		78	42 - 100
2,4,6-Trichlorophenol	667	524		ug/Kg		79	41 - 103

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	69		42 - 100
2-Fluorophenol (Surr)	61		21 - 107
Nitrobenzene-d5 (Surr)	63		35 - 109

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCS 180-219075/2-A
Matrix: Solid
Analysis Batch: 219126

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 219075

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Phenol-d5 (Surr)	*56*		*29 - 105*
Terphenyl-d14 (Surr)	*68*		*36 - 113*
2,4,6-Tribromophenol (Surr)	*81*		*20 - 134*

Lab Sample ID: 180-68814-13 MS
Matrix: Solid
Analysis Batch: 219126

Client Sample ID: WB2-3, S1, C 08.01.17
Prep Type: Total/NA
Prep Batch: 219075

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	0.018		0.733	0.684		mg/Kg	☼	91	39 - 100
Acenaphthylene	0.082		0.733	0.650		mg/Kg	☼	78	42 - 100
Anthracene	0.13	F2 F1	0.733	0.987	F1	mg/Kg	☼	117	43 - 100
Benzo[a]anthracene	0.38	F2 F1	0.733	1.43	F1	mg/Kg	☼	144	43 - 100
Benzo[a]pyrene	0.38	F2 F1	0.733	1.29	F1	mg/Kg	☼	125	43 - 100
Benzo[b]fluoranthene	0.52	F2 F1	0.733	1.43	F1	mg/Kg	☼	123	40 - 100
Benzo[g,h,i]perylene	0.34	F2 F1	0.733	1.28	F1	mg/Kg	☼	128	41 - 102
Benzo[k]fluoranthene	0.16	F2	0.733	0.874		mg/Kg	☼	97	44 - 100
Chrysene	0.43	F2 F1	0.733	1.29	F1	mg/Kg	☼	118	44 - 100
Dibenz(a,h)anthracene	0.089		0.733	0.792		mg/Kg	☼	96	40 - 104
Dibenzofuran	0.022	J	0.733	0.612		mg/Kg	☼	80	42 - 100
2,4-Dinitrotoluene	ND		733	565		ug/Kg	☼	77	42 - 110
1,4-Dioxane	ND		0.733	0.539		mg/Kg	☼	74	19 - 107
Fluoranthene	0.63	F2 F1	0.733	2.29	E F1	mg/Kg	☼	226	41 - 104
Fluorene	0.021		0.733	0.688		mg/Kg	☼	91	41 - 100
Hexachlorobenzene	ND		0.733	0.604		mg/Kg	☼	82	43 - 100
Hexachlorobutadiene	ND		733	618		ug/Kg	☼	84	35 - 100
Hexachloroethane	ND		733	451		ug/Kg	☼	62	35 - 100
Indeno[1,2,3-cd]pyrene	0.31	F2 F1	0.733	1.21	F1	mg/Kg	☼	123	41 - 104
2-Methylphenol	ND		0.733	0.398		mg/Kg	☼	54	38 - 100
Methylphenol, 3 & 4	ND		0.733	0.388		mg/Kg	☼	53	40 - 100
Naphthalene	0.041		0.733	0.600		mg/Kg	☼	76	38 - 100
Nitrobenzene	ND		733	511		ug/Kg	☼	70	34 - 100
Pentachlorophenol	ND		1.47	1.09		mg/Kg	☼	74	34 - 102
Phenanthrene	0.33	F2 F1	0.733	1.83	E F1	mg/Kg	☼	204	41 - 100
Phenol	ND		0.733	0.392		mg/Kg	☼	54	36 - 100
Pyrene	0.57	F2 F1	0.733	1.58	E F1	mg/Kg	☼	139	42 - 100
Pyridine	ND	F1	1470	210	F1	ug/Kg	☼	14	25 - 119
2,4,5-Trichlorophenol	ND		733	579		ug/Kg	☼	79	42 - 100
2,4,6-Trichlorophenol	ND		733	608		ug/Kg	☼	83	41 - 103

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl	*70*		*42 - 100*
2-Fluorophenol (Surr)	*54*		*21 - 107*
Nitrobenzene-d5 (Surr)	*63*		*35 - 109*
Phenol-d5 (Surr)	*48*		*29 - 105*
Terphenyl-d14 (Surr)	*56*		*36 - 113*
2,4,6-Tribromophenol (Surr)	*80*		*20 - 134*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: 180-68814-13 MSD
Matrix: Solid
Analysis Batch: 219211

Client Sample ID: WB2-3, S1, C 08.01.17
Prep Type: Total/NA
Prep Batch: 219075

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	0.018		0.747	0.591		mg/Kg	☼	77	39 - 100	15	20
Acenaphthylene	0.082		0.747	0.649		mg/Kg	☼	76	42 - 100	0	20
Anthracene	0.13	F2 F1	0.747	0.686	F2	mg/Kg	☼	74	43 - 100	36	20
Benzo[a]anthracene	0.38	F2 F1	0.747	0.965	F2	mg/Kg	☼	78	43 - 100	39	20
Benzo[a]pyrene	0.38	F2 F1	0.747	0.834	F2	mg/Kg	☼	61	43 - 100	43	20
Benzo[b]fluoranthene	0.52	F2 F1	0.747	0.926	F2	mg/Kg	☼	54	40 - 100	43	20
Benzo[g,h,i]perylene	0.34	F2 F1	0.747	0.893	F2	mg/Kg	☼	73	41 - 102	36	20
Benzo[k]fluoranthene	0.16	F2	0.747	0.665	F2	mg/Kg	☼	67	44 - 100	27	20
Chrysene	0.43	F2 F1	0.747	0.861	F2	mg/Kg	☼	58	44 - 100	40	20
Dibenz(a,h)anthracene	0.089		0.747	0.682		mg/Kg	☼	79	40 - 104	15	26
Dibenzofuran	0.022	J	0.747	0.557		mg/Kg	☼	72	42 - 100	9	23
2,4-Dinitrotoluene	ND		747	615		ug/Kg	☼	82	42 - 110	8	21
1,4-Dioxane	ND		0.747	0.598		mg/Kg	☼	80	19 - 107	10	20
Fluoranthene	0.63	F2 F1	0.747	1.13	F2	mg/Kg	☼	67	41 - 104	68	20
Fluorene	0.021		0.747	0.586		mg/Kg	☼	76	41 - 100	16	21
Hexachlorobenzene	ND		0.747	0.685		mg/Kg	☼	92	43 - 100	12	21
Hexachlorobutadiene	ND		747	678		ug/Kg	☼	91	35 - 100	9	20
Hexachloroethane	ND		747	501		ug/Kg	☼	67	35 - 100	11	20
Indeno[1,2,3-cd]pyrene	0.31	F2 F1	0.747	0.878	F2	mg/Kg	☼	76	41 - 104	32	25
2-Methylphenol	ND		0.747	0.429		mg/Kg	☼	57	38 - 100	8	20
Methylphenol, 3 & 4	ND		0.747	0.425		mg/Kg	☼	57	40 - 100	9	20
Naphthalene	0.041		0.747	0.587		mg/Kg	☼	73	38 - 100	2	20
Nitrobenzene	ND		747	550		ug/Kg	☼	74	34 - 100	7	20
Pentachlorophenol	ND		1.49	1.02		mg/Kg	☼	68	34 - 102	7	20
Phenanthrene	0.33	F2 F1	0.747	0.837	F2	mg/Kg	☼	67	41 - 100	74	20
Phenol	ND		0.747	0.434		mg/Kg	☼	58	36 - 100	10	20
Pyrene	0.57	F2 F1	0.747	0.905	F2	mg/Kg	☼	45	42 - 100	55	21
Pyridine	ND	F1	1490	249	F1	ug/Kg	☼	17	25 - 119	17	20
2,4,5-Trichlorophenol	ND		747	614		ug/Kg	☼	82	42 - 100	6	22
2,4,6-Trichlorophenol	ND		747	631		ug/Kg	☼	84	41 - 103	4	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl	*72*		*42 - 100*
2-Fluorophenol (Surr)	*59*		*21 - 107*
Nitrobenzene-d5 (Surr)	*68*		*35 - 109*
Phenol-d5 (Surr)	*53*		*29 - 105*
Terphenyl-d14 (Surr)	*55*		*36 - 113*
2,4,6-Tribromophenol (Surr)	*80*		*20 - 134*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 180-219077/1-A
Matrix: Solid
Analysis Batch: 219079

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 219077

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.017	0.0088	mg/Kg		08/04/17 04:29	08/04/17 20:25	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: MB 180-219077/1-A
Matrix: Solid
Analysis Batch: 219079

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 219077

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1221	ND		0.017	0.0086	mg/Kg		08/04/17 04:29	08/04/17 20:25	1
PCB-1232	ND		0.017	0.0066	mg/Kg		08/04/17 04:29	08/04/17 20:25	1
PCB-1242	ND		0.017	0.013	mg/Kg		08/04/17 04:29	08/04/17 20:25	1
PCB-1248	ND		0.017	0.0080	mg/Kg		08/04/17 04:29	08/04/17 20:25	1
PCB-1254	ND		0.017	0.0073	mg/Kg		08/04/17 04:29	08/04/17 20:25	1
PCB-1260	ND		0.017	0.011	mg/Kg		08/04/17 04:29	08/04/17 20:25	1
PCB-1262	ND		0.017	0.012	mg/Kg		08/04/17 04:29	08/04/17 20:25	1
PCB-1268	ND		0.017	0.0051	mg/Kg		08/04/17 04:29	08/04/17 20:25	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*80*		*23 - 150*	*08/04/17 04:29*	*08/04/17 20:25*	*1*
DCB Decachlorobiphenyl (Surr)	*85*		*23 - 150*	*08/04/17 04:29*	*08/04/17 20:25*	*1*
Tetrachloro-m-xylene (Surr)	*87*		*27 - 138*	*08/04/17 04:29*	*08/04/17 20:25*	*1*
Tetrachloro-m-xylene (Surr)	*84*		*27 - 138*	*08/04/17 04:29*	*08/04/17 20:25*	*1*

Lab Sample ID: LCS 180-219077/2-A
Matrix: Solid
Analysis Batch: 219079

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 219077

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			1.33	1.22		mg/Kg		92	52 - 126		
PCB-1260			1.33	1.44		mg/Kg		108	50 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*90*		*23 - 150*
DCB Decachlorobiphenyl (Surr)	*92*		*23 - 150*
Tetrachloro-m-xylene (Surr)	*91*		*27 - 138*
Tetrachloro-m-xylene (Surr)	*87*		*27 - 138*

Lab Sample ID: LCSD 180-219077/3-A
Matrix: Solid
Analysis Batch: 219079

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 219077

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016			1.33	1.15		mg/Kg		86	52 - 126	6	20
PCB-1260			1.33	1.40		mg/Kg		105	50 - 130	3	21

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*82*		*23 - 150*
DCB Decachlorobiphenyl (Surr)	*87*		*23 - 150*
Tetrachloro-m-xylene (Surr)	*87*		*27 - 138*
Tetrachloro-m-xylene (Surr)	*82*		*27 - 138*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 180-218989/1-A
Matrix: Solid
Analysis Batch: 219329

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 218989

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		1.0	0.44	mg/Kg		08/03/17 09:17	08/07/17 09:00	1
Barium	ND		20	5.4	mg/Kg		08/03/17 09:17	08/07/17 09:00	1
Beryllium	ND		0.40	0.10	mg/Kg		08/03/17 09:17	08/07/17 09:00	1
Cadmium	ND		0.50	0.11	mg/Kg		08/03/17 09:17	08/07/17 09:00	1
Chromium	ND		0.50	0.13	mg/Kg		08/03/17 09:17	08/07/17 09:00	1
Copper	ND		2.5	0.77	mg/Kg		08/03/17 09:17	08/07/17 09:00	1
Lead	ND		1.0	0.33	mg/Kg		08/03/17 09:17	08/07/17 09:00	1
Manganese	ND		1.5	0.41	mg/Kg		08/03/17 09:17	08/07/17 09:00	1
Nickel	ND		4.0	0.90	mg/Kg		08/03/17 09:17	08/07/17 09:00	1
Selenium	ND	^	1.0	0.40	mg/Kg		08/03/17 09:17	08/07/17 09:00	1
Silver	ND		0.50	0.17	mg/Kg		08/03/17 09:17	08/07/17 09:00	1
Zinc	ND		2.0	1.0	mg/Kg		08/03/17 09:17	08/07/17 09:00	1

Lab Sample ID: LCS 180-218989/2-A
Matrix: Solid
Analysis Batch: 219329

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 218989

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	50.0	50.8		mg/Kg		102	80 - 120
Barium	200	202		mg/Kg		101	80 - 120
Beryllium	5.00	4.85		mg/Kg		97	80 - 120
Cadmium	5.00	5.18		mg/Kg		104	80 - 120
Chromium	20.0	19.1		mg/Kg		96	80 - 120
Copper	25.0	24.7		mg/Kg		99	80 - 120
Lead	50.0	46.6		mg/Kg		93	80 - 120
Manganese	50.0	49.4		mg/Kg		99	80 - 120
Nickel	50.0	47.6		mg/Kg		95	80 - 120
Selenium	50.0	48.9	^	mg/Kg		98	80 - 120
Silver	5.00	5.05		mg/Kg		101	80 - 120
Zinc	50.0	49.0		mg/Kg		98	80 - 120

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 180-219480/1-A
Matrix: Solid
Analysis Batch: 219600

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 219480

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.033	0.0074	mg/Kg		08/08/17 17:30	08/09/17 11:20	1

Lab Sample ID: LCS 180-219480/2-A
Matrix: Solid
Analysis Batch: 219600

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 219480

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.417	0.456		mg/Kg		109	80 - 120

Method: 7471B - Mercury (CVAA) (Continued)

Lab Sample ID: 180-68814-13 MS
Matrix: Solid
Analysis Batch: 219600

Client Sample ID: WB2-3, S1, C 08.01.17
Prep Type: Total/NA
Prep Batch: 219480

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.055	F1	0.176	0.291	F1	mg/Kg	☼	134	80 - 120

Lab Sample ID: 180-68814-13 MSD
Matrix: Solid
Analysis Batch: 219600

Client Sample ID: WB2-3, S1, C 08.01.17
Prep Type: Total/NA
Prep Batch: 219480

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.055	F1	0.194	0.278		mg/Kg	☼	115	80 - 120	4	20

Method: 2540G - SM 2540G

Lab Sample ID: 180-68814-16 DU
Matrix: Solid
Analysis Batch: 218909

Client Sample ID: WB2-3, S2, C 08.01.17
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	9.2		9.2		%		0.4	20
Percent Solids	90.8		90.8		%		0	20

Method: 9014 - Cyanide

Lab Sample ID: MB 180-219313/4-A
Matrix: Solid
Analysis Batch: 219406

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 219313

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.50	0.15	mg/Kg		08/07/17 11:25	08/07/17 15:26	1

Lab Sample ID: HLCS 180-219313/2-A
Matrix: Solid
Analysis Batch: 219406

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 219313

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.250	0.244		mg/Kg		98	90 - 110

Lab Sample ID: LCS 180-219313/3-A
Matrix: Solid
Analysis Batch: 219406

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 219313

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	163	103		mg/Kg		63	38 - 162

Lab Sample ID: LLCS 180-219313/1-A
Matrix: Solid
Analysis Batch: 219406

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 219313

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.0500	0.0504		mg/Kg		101	90 - 110

Method: 9014 - Cyanide (Continued)

Lab Sample ID: 180-68814-13 MS
Matrix: Solid
Analysis Batch: 219406

Client Sample ID: WB2-3, S1, C 08.01.17
Prep Type: Total/NA
Prep Batch: 219313

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	ND		5.64	5.79		mg/Kg	☼	103	75 - 125

Lab Sample ID: 180-68814-13 MSD
Matrix: Solid
Analysis Batch: 219406

Client Sample ID: WB2-3, S1, C 08.01.17
Prep Type: Total/NA
Prep Batch: 219313

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cyanide, Total	ND		5.48	5.46		mg/Kg	☼	100	75 - 125	6	20

GC/MS VOA

Analysis Batch: 218943

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68814-17	TRIP BLANK #1	Total/NA	Water	8260C	
MB 180-218943/5	Method Blank	Total/NA	Water	8260C	
LCS 180-218943/3	Lab Control Sample	Total/NA	Water	8260C	

Analysis Batch: 218968

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68814-11	WB2-3, S1, A 08.01.17	Total/NA	Solid	8260C	218980
180-68814-12	WB2-3, S1, B 08.01.17	Total/NA	Solid	8260C	218980
180-68814-14	WB2-3, S2, A 08.01.17	Total/NA	Solid	8260C	218980
180-68814-15	WB2-3, S2, B 08.01.17	Total/NA	Solid	8260C	218980
MB 180-218968/9	Method Blank	Total/NA	Solid	8260C	
LCS 180-218968/4	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 180-218968/5	Lab Control Sample Dup	Total/NA	Solid	8260C	

Prep Batch: 218980

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68814-11	WB2-3, S1, A 08.01.17	Total/NA	Solid	5035	
180-68814-12	WB2-3, S1, B 08.01.17	Total/NA	Solid	5035	
180-68814-14	WB2-3, S2, A 08.01.17	Total/NA	Solid	5035	
180-68814-15	WB2-3, S2, B 08.01.17	Total/NA	Solid	5035	

GC/MS Semi VOA

Prep Batch: 219075

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68814-13	WB2-3, S1, C 08.01.17	Total/NA	Solid	3541	
180-68814-16	WB2-3, S2, C 08.01.17	Total/NA	Solid	3541	
MB 180-219075/1-A	Method Blank	Total/NA	Solid	3541	
LCS 180-219075/2-A	Lab Control Sample	Total/NA	Solid	3541	
180-68814-13 MS	WB2-3, S1, C 08.01.17	Total/NA	Solid	3541	
180-68814-13 MSD	WB2-3, S1, C 08.01.17	Total/NA	Solid	3541	

Analysis Batch: 219126

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68814-13	WB2-3, S1, C 08.01.17	Total/NA	Solid	8270D LL	219075
MB 180-219075/1-A	Method Blank	Total/NA	Solid	8270D LL	219075
LCS 180-219075/2-A	Lab Control Sample	Total/NA	Solid	8270D LL	219075
180-68814-13 MS	WB2-3, S1, C 08.01.17	Total/NA	Solid	8270D LL	219075

Analysis Batch: 219211

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68814-16	WB2-3, S2, C 08.01.17	Total/NA	Solid	8270D LL	219075
180-68814-13 MSD	WB2-3, S1, C 08.01.17	Total/NA	Solid	8270D LL	219075

GC Semi VOA

Prep Batch: 219077

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68814-13	WB2-3, S1, C 08.01.17	Total/NA	Solid	3541	
180-68814-16	WB2-3, S2, C 08.01.17	Total/NA	Solid	3541	

GC Semi VOA (Continued)

Prep Batch: 219077 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 180-219077/1-A	Method Blank	Total/NA	Solid	3541	
LCS 180-219077/2-A	Lab Control Sample	Total/NA	Solid	3541	
LCSD 180-219077/3-A	Lab Control Sample Dup	Total/NA	Solid	3541	

Analysis Batch: 219079

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68814-13	WB2-3, S1, C 08.01.17	Total/NA	Solid	8082A	219145
180-68814-16	WB2-3, S2, C 08.01.17	Total/NA	Solid	8082A	219145
MB 180-219077/1-A	Method Blank	Total/NA	Solid	8082A	219077
LCS 180-219077/2-A	Lab Control Sample	Total/NA	Solid	8082A	219077
LCSD 180-219077/3-A	Lab Control Sample Dup	Total/NA	Solid	8082A	219077

Cleanup Batch: 219144

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68814-13	WB2-3, S1, C 08.01.17	Total/NA	Solid	3665A	219077
180-68814-16	WB2-3, S2, C 08.01.17	Total/NA	Solid	3665A	219077

Cleanup Batch: 219145

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68814-13	WB2-3, S1, C 08.01.17	Total/NA	Solid	3660B	219144
180-68814-16	WB2-3, S2, C 08.01.17	Total/NA	Solid	3660B	219144

Metals

Prep Batch: 218989

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68814-13	WB2-3, S1, C 08.01.17	Total/NA	Solid	3050B	
180-68814-16	WB2-3, S2, C 08.01.17	Total/NA	Solid	3050B	
MB 180-218989/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 180-218989/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Analysis Batch: 219329

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68814-13	WB2-3, S1, C 08.01.17	Total/NA	Solid	6010C	218989
180-68814-16	WB2-3, S2, C 08.01.17	Total/NA	Solid	6010C	218989
MB 180-218989/1-A	Method Blank	Total/NA	Solid	6010C	218989
LCS 180-218989/2-A	Lab Control Sample	Total/NA	Solid	6010C	218989

Prep Batch: 219480

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68814-13	WB2-3, S1, C 08.01.17	Total/NA	Solid	7471B	
180-68814-16	WB2-3, S2, C 08.01.17	Total/NA	Solid	7471B	
MB 180-219480/1-A	Method Blank	Total/NA	Solid	7471B	
LCS 180-219480/2-A	Lab Control Sample	Total/NA	Solid	7471B	
180-68814-13 MS	WB2-3, S1, C 08.01.17	Total/NA	Solid	7471B	
180-68814-13 MSD	WB2-3, S1, C 08.01.17	Total/NA	Solid	7471B	

Analysis Batch: 219600

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68814-13	WB2-3, S1, C 08.01.17	Total/NA	Solid	7471B	219480

Metals (Continued)

Analysis Batch: 219600 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68814-16	WB2-3, S2, C 08.01.17	Total/NA	Solid	7471B	219480
MB 180-219480/1-A	Method Blank	Total/NA	Solid	7471B	219480
LCS 180-219480/2-A	Lab Control Sample	Total/NA	Solid	7471B	219480
180-68814-13 MS	WB2-3, S1, C 08.01.17	Total/NA	Solid	7471B	219480
180-68814-13 MSD	WB2-3, S1, C 08.01.17	Total/NA	Solid	7471B	219480

General Chemistry

Analysis Batch: 218909

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68814-11	WB2-3, S1, A 08.01.17	Total/NA	Solid	2540G	
180-68814-12	WB2-3, S1, B 08.01.17	Total/NA	Solid	2540G	
180-68814-13	WB2-3, S1, C 08.01.17	Total/NA	Solid	2540G	
180-68814-14	WB2-3, S2, A 08.01.17	Total/NA	Solid	2540G	
180-68814-15	WB2-3, S2, B 08.01.17	Total/NA	Solid	2540G	
180-68814-16	WB2-3, S2, C 08.01.17	Total/NA	Solid	2540G	
180-68814-16 DU	WB2-3, S2, C 08.01.17	Total/NA	Solid	2540G	

Prep Batch: 219313

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68814-13	WB2-3, S1, C 08.01.17	Total/NA	Solid	9010C	
180-68814-16	WB2-3, S2, C 08.01.17	Total/NA	Solid	9010C	
MB 180-219313/4-A	Method Blank	Total/NA	Solid	9010C	
HLCS 180-219313/2-A	Lab Control Sample	Total/NA	Solid	9010C	
LCS 180-219313/3-A	Lab Control Sample	Total/NA	Solid	9010C	
LLCS 180-219313/1-A	Lab Control Sample	Total/NA	Solid	9010C	
180-68814-13 MS	WB2-3, S1, C 08.01.17	Total/NA	Solid	9010C	
180-68814-13 MSD	WB2-3, S1, C 08.01.17	Total/NA	Solid	9010C	

Analysis Batch: 219406

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68814-13	WB2-3, S1, C 08.01.17	Total/NA	Solid	9014	219313
180-68814-16	WB2-3, S2, C 08.01.17	Total/NA	Solid	9014	219313
MB 180-219313/4-A	Method Blank	Total/NA	Solid	9014	219313
HLCS 180-219313/2-A	Lab Control Sample	Total/NA	Solid	9014	219313
LCS 180-219313/3-A	Lab Control Sample	Total/NA	Solid	9014	219313
LLCS 180-219313/1-A	Lab Control Sample	Total/NA	Solid	9014	219313
180-68814-13 MS	WB2-3, S1, C 08.01.17	Total/NA	Solid	9014	219313
180-68814-13 MSD	WB2-3, S1, C 08.01.17	Total/NA	Solid	9014	219313

TestAmerica Pittsburgh
301 Alpha Drive RIDC Park
Pittsburgh, PA 15238
Phone (412) 963-7058 Fax (412) 963-2468

Chain of Custody Record

180-68814 Chain of Custody

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Ellen Buelow	Lab PM: Dunlap, David A	COC No: 180-38494-8381.1
Client Contact: Ashwin Ranna; Aron Krasnopoler	Phone: 412-552-4758	E-Mail: david.dunlap@testamericainc.com	Page: Page of
Company: Geosyntec Consultants, Inc.			Job #:
Address: Penn Center West One, Suite 402 1 Penn Center West Drive	Due Date Requested:		
City: Pittsburgh	TAT Requested (days): 1 day TAT		
State, Zip: PA, 15276			
Phone:	PO #: MN0832B		
Email: aranna@geosyntec.com; Akrasnopoler@geosyntec.com	WO #:		
Project Name: Former Sperry Remington Site - North IRM	Project #: 18013464		
Site: FORMER SPERRY REMINGTON SITE	SSOW#:		

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No) - FOR ALL	Perform MS/MSD (Yes or No) - FOR ALL	8260C - VOA-Select List	6010C, 7471B, 9014 - Select ICP Metals, Mercury, Cyanide	8082A, 8270D, PCBs, Select BNA	8260C - VOA-Select List (Trip Blanks only)	TCLP RCRA METALS	TCLP SEMI VOA	TCLP VOC	PCBS 8082A	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	A	N	N	N	N		
WB4-5, S3, A 08.01.17	08.01.17	9:55	G	Solid	N	N							X		2	
WB4-5, S3, C 08.01.17	08.01.17	10:00	C	Solid	N	N					X	X		X	3	
WB4-5, S4, A 08.01.17	08.01.17	10:10	G	Solid	N	N							X		2	
WB4-5, S4, C 08.01.17	08.01.17	10:20	C	Solid	N	N					X	X		X	3	
W9, S5, A 08.01.17	08.01.17	10:45	G	Solid	N	N							X		2	
W9, S5, C 08.01.17	08.01.17	10:50	C	Solid	N	N					X	X		X	3	
WB5-6, S2, A 08.01.17	08.01.17	11:35	G	Solid	N	N							X		2	
WB5-6, S2, C 08.01.17	08.01.17	11:45	C	Solid	N	N					X	X		X	3	
WB5-6, S3, A 08.01.17	08.01.17	12:00	G	Solid	N	N							X		2	
WB5-6, S3, C 08.01.17	08.01.17	12:05	C	Solid	N	N					X	X		X	3	
WB2-3, S1, A 08.01.17	08.01.17	15:45	G	Solid	N	N	X								4	

RUSH

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Date/Time	Company	Received by	Date/Time	Company
Relinquished by:	08.01.17 18:45	Geosyntec		8/2/17 845	TAP
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

8/10/2017

TestAmerica Pittsburgh
301 Alpha Drive RIDC Park
Pittsburgh, PA 15238
Phone (412) 963-7058 Fax (412) 963-2468

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Ellen Buelow	Lab PM: Dunlap, David A	Carrier Tracking No(s):	COC No: 180-38494-8381.1
Client Contact: Ashwin Ranna; Aron Krasnopoler	Phone: 412-552-4758	E-Mail: david.dunlap@testamericainc.com		Page: Page of
Company: Geosyntec Consultants, Inc.				Job #:
Address: Penn Center West One, Suite 402 1 Penn Center West Drive	Due Date Requested:			
City: Pittsburgh	TAT Requested (days): 1 day TAT			
State, Zip: PA, 15276				
Phone:	PO #: MN0832B			
Email: aranna@geosyntec.com; Akrasnopoler@geosyntec.com	WO #:			
Project Name: Former Sperry Remington Site - North IRM	Project #: 18013464			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - VOA-Select List	6010C, 7471B, 9014 - Select ICP Metals, Mercury, Cyanide	8082A, 8270D, PCBs, Select BNA	8260C - VOA-Select List (Trip Blanks only)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	A		
WB2-3,S1,B 08.01.17	08.01.17	15:55	G	Solid	N	N	X				4	RUSH
WB2-3,S1,C 08.01.17	08.01.17	16:05	C	Solid	N	N		X	X		2	RUSH
WB2-3,S2,A 08.01.17	08.01.17	16:40	G	Solid	N	N	X				4	RUSH
WB2-3,S2,B 08.01.17	08.01.17	16:50	G	Solid	N	N	X				4	RUSH
WB2-3,S2,C 08.01.17	08.01.17	16:55	C	Solid	N	N		X	X		2	RUSH
TRIP BLANK #1	08.01.17	—	—	W ~~Solid~~	N	N				X	2	—
				Solid								
				Solid								
				Solid								
				~~Solid~~								
				Solid								

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		08.01.17 18:65	Geosyntec	TAP	8/2/17 845	TAP
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

8/10/2017

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 180-68814-2

Login Number: 68814
List Number: 1
Creator: Say, Thomas C

List Source: TestAmerica Pittsburgh

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

TestAmerica Job ID: 180-68875-2
Client Project/Site: Former Sperry Remington Site - North IRM

For:
Geosyntec Consultants, Inc.
10211 Wincopin Circle
4'th Floor
Columbia, Maryland 21044

Attn: Mr. Aron Krasnopoler

Authorized for release by:
8/15/2017 4:12:40 PM

David Dunlap, Senior Project Manager
(412)963-2432
david.dunlap@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68875-2

Job ID: 180-68875-2

Laboratory: TestAmerica Pittsburgh

Narrative

Job Narrative
180-68875-2

Receipt
The samples were received on 8/3/2017 8:50 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 0.8º C.

A trip blank was submitted for analysis with these samples; however, it was not listed on the Chain of Custody (COC) as a sample.

GC/MS VOA
Method(s) 8260C: The continuing calibration verification (CCV) analyzed in batch 180-219096 was below criteria for the following analyte: 2-butanone (MEK). A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte is considered estimated.

Method(s) 8260C: The continuing calibration verification (CCV) analyzed in 180-219248 was above criteria for the following analyte: 1,1,1-trichloroethane. As the CCV was high and this analyte was not detected in the associated sample, the results were reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC Semi VOA
Method(s) 8082A: The continuing calibration verification (CCV) analyzed in batch 180-220002 was above criteria for arcolor 1254 (CCV 180-220002/1) on column RTX-CLP1. The aroclor 1254 result in the associated sample was reported from column RTX-CLP2, which met criteria. The % difference between the sample results on both columns was <40%.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc. TestAmerica Job ID: 180-68875-2
Project/Site: Former Sperry Remington Site - North IRM

Laboratory: TestAmerica Pittsburgh

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	11182	03-31-18

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
2540G		Solid	Percent Moisture
2540G		Solid	Percent Solids
8270D LL	3541	Solid	1,4-Dioxane

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68875-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-68875-9	WB2-3, S3, A 08.02.17	Solid	08/02/17 16:10	08/03/17 08:50
180-68875-12	WB2-3, S3, B 08.02.17	Solid	08/02/17 16:15	08/03/17 08:50
180-68875-13	WB2-3, S3, C 08.02.17	Solid	08/02/17 16:20	08/03/17 08:50
180-68875-14	DUP 24	Solid	08/02/17 00:00	08/03/17 08:50
180-68875-15	TRIP BLANK #1	Water	08/02/17 00:00	08/03/17 08:50

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68875-2

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL PIT
8260C	Volatile Organic Compounds (GC/MS)	SW846	TAL PIT
8270D LL	Semivolatile Organic Compounds by GC/MS - Low Level	SW846	TAL PIT
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL PIT
6010C	Metals (ICP)	SW846	TAL PIT
7471B	Mercury (CVAA)	SW846	TAL PIT
2540G	SM 2540G	SM22	TAL PIT
9014	Cyanide	SW846	TAL PIT

Protocol References:

SM22 = SM22

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68875-2

Client Sample ID: WB2-3, S3, A 08.02.17
Date Collected: 08/02/17 16:10
Date Received: 08/03/17 08:50

Lab Sample ID: 180-68875-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			219137	08/04/17 11:05	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: WB2-3, S3, A 08.02.17
Date Collected: 08/02/17 16:10
Date Received: 08/03/17 08:50

Lab Sample ID: 180-68875-9
Matrix: Solid
Percent Solids: 89.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.5933 g	5 mL	219255	08/07/17 05:30	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	219248	08/07/17 09:24	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: WB2-3, S3, B 08.02.17
Date Collected: 08/02/17 16:15
Date Received: 08/03/17 08:50

Lab Sample ID: 180-68875-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			219137	08/04/17 11:05	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: WB2-3, S3, B 08.02.17
Date Collected: 08/02/17 16:15
Date Received: 08/03/17 08:50

Lab Sample ID: 180-68875-12
Matrix: Solid
Percent Solids: 90.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.761 g	5 mL	219095	08/04/17 05:28	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	219096	08/04/17 16:59	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: WB2-3, S3, C 08.02.17
Date Collected: 08/02/17 16:20
Date Received: 08/03/17 08:50

Lab Sample ID: 180-68875-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			219137	08/04/17 11:05	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: WB2-3, S3, C 08.02.17
Date Collected: 08/02/17 16:20
Date Received: 08/03/17 08:50

Lab Sample ID: 180-68875-13
Matrix: Solid
Percent Solids: 90.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	0.5 mL	219916	08/13/17 12:17	MAL	TAL PIT

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68875-2

Client Sample ID: WB2-3, S3, C 08.02.17

Date Collected: 08/02/17 16:20
Date Received: 08/03/17 08:50

Lab Sample ID: 180-68875-13

Matrix: Solid
Percent Solids: 90.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8270D LL		1	1 mL	1 mL	219952	08/14/17 10:32	VVP	TAL PIT
	Instrument ID: CH733									
Total/NA	Prep	3541			15.0 g	20.0 mL	219927	08/14/17 03:48	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	219988	08/14/17 10:20	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	219989	08/14/17 10:21	JMO	TAL PIT
Total/NA	Analysis	8082A		1			220002	08/15/17 00:45	JMO	TAL PIT
	Instrument ID: CHGC8									
Total/NA	Prep	3050B			0.96 g	100 mL	219443	08/08/17 14:03	SES	TAL PIT
Total/NA	Analysis	6010C		1			219711	08/10/17 12:19	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.60 g	100 mL	219480	08/08/17 17:30	RJR	TAL PIT
Total/NA	Analysis	7471B		1			219600	08/09/17 11:32	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.00 g	50 mL	219313	08/07/17 11:25	JAS	TAL PIT
Total/NA	Analysis	9014		1			219406	08/07/17 15:40	JAS	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: DUP 24

Date Collected: 08/02/17 00:00
Date Received: 08/03/17 08:50

Lab Sample ID: 180-68875-14

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			219137	08/04/17 11:05	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: DUP 24

Date Collected: 08/02/17 00:00
Date Received: 08/03/17 08:50

Lab Sample ID: 180-68875-14

Matrix: Solid
Percent Solids: 88.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.8102 g	5 mL	219095	08/04/17 05:28	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	219096	08/04/17 17:22	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: TRIP BLANK #1

Date Collected: 08/02/17 00:00
Date Received: 08/03/17 08:50

Lab Sample ID: 180-68875-15

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	219231	08/07/17 05:42	FBB	TAL PIT
	Instrument ID: CHHP5									

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68875-2

Analyst References:

Lab: TAL PIT

Batch Type: Cleanup

JMO = John Oravec

Batch Type: Prep

BAP = Brian Pino

JAS = Joshua Schmidt

KLG = Kathy Gordon

MAL = Michael Lonzo

RJR = Ron Rosenbaum

SES = Samantha Strauser

Batch Type: Analysis

FBB = Frank Bungard

JAS = Joshua Schmidt

JMO = John Oravec

JTL = Justin Landry

KLG = Kathy Gordon

RJG = Rob Good

RJR = Ron Rosenbaum

VVP = Vincent Piccolino

Client Sample ID: WB2-3, S3, A 08.02.17

Lab Sample ID: 180-68875-9
Date Collected: 08/02/17 16:10
Matrix: Solid
Date Received: 08/03/17 08:50
Percent Solids: 89.4

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.017	0.0027	mg/Kg	☼	08/07/17 05:30	08/07/17 09:24	1
Benzene	ND		0.0042	0.0017	mg/Kg	☼	08/07/17 05:30	08/07/17 09:24	1
2-Butanone (MEK)	ND		0.0042	0.0025	mg/Kg	☼	08/07/17 05:30	08/07/17 09:24	1
Carbon tetrachloride	ND		0.0042	0.0028	mg/Kg	☼	08/07/17 05:30	08/07/17 09:24	1
Chlorobenzene	ND		0.0042	0.0013	mg/Kg	☼	08/07/17 05:30	08/07/17 09:24	1
Chloroform	ND		0.0042	0.0018	mg/Kg	☼	08/07/17 05:30	08/07/17 09:24	1
cis-1,2-Dichloroethene	ND		0.0042	0.0013	mg/Kg	☼	08/07/17 05:30	08/07/17 09:24	1
1,2-Dichlorobenzene	ND		0.0042	0.0034	mg/Kg	☼	08/07/17 05:30	08/07/17 09:24	1
1,3-Dichlorobenzene	ND		0.0042	0.0014	mg/Kg	☼	08/07/17 05:30	08/07/17 09:24	1
1,4-Dichlorobenzene	ND		0.0042	0.00087	mg/Kg	☼	08/07/17 05:30	08/07/17 09:24	1
1,1-Dichloroethane	ND		0.0042	0.0015	mg/Kg	☼	08/07/17 05:30	08/07/17 09:24	1
1,2-Dichloroethane	ND		0.0042	0.0012	mg/Kg	☼	08/07/17 05:30	08/07/17 09:24	1
1,1-Dichloroethene	ND		0.0042	0.0024	mg/Kg	☼	08/07/17 05:30	08/07/17 09:24	1
Ethylbenzene	ND		0.0042	0.0018	mg/Kg	☼	08/07/17 05:30	08/07/17 09:24	1
Methylene Chloride	ND		0.0042	0.0020	mg/Kg	☼	08/07/17 05:30	08/07/17 09:24	1
Methyl tert-butyl ether	ND		0.0042	0.0031	mg/Kg	☼	08/07/17 05:30	08/07/17 09:24	1
n-Butylbenzene	ND		0.0042	0.0032	mg/Kg	☼	08/07/17 05:30	08/07/17 09:24	1
N-Propylbenzene	ND		0.0042	0.0018	mg/Kg	☼	08/07/17 05:30	08/07/17 09:24	1
sec-Butylbenzene	ND		0.0042	0.0021	mg/Kg	☼	08/07/17 05:30	08/07/17 09:24	1
tert-Butylbenzene	ND		0.0042	0.0016	mg/Kg	☼	08/07/17 05:30	08/07/17 09:24	1
Tetrachloroethene	ND		0.0042	0.0017	mg/Kg	☼	08/07/17 05:30	08/07/17 09:24	1
Toluene	ND		0.0042	0.0014	mg/Kg	☼	08/07/17 05:30	08/07/17 09:24	1
trans-1,2-Dichloroethene	ND		0.0042	0.0022	mg/Kg	☼	08/07/17 05:30	08/07/17 09:24	1
1,1,1-Trichloroethane	ND		0.0042	0.0021	mg/Kg	☼	08/07/17 05:30	08/07/17 09:24	1
Trichloroethene	ND		0.0042	0.0013	mg/Kg	☼	08/07/17 05:30	08/07/17 09:24	1
1,2,4-Trimethylbenzene	ND		0.0042	0.0011	mg/Kg	☼	08/07/17 05:30	08/07/17 09:24	1
1,3,5-Trimethylbenzene	ND		0.0042	0.0015	mg/Kg	☼	08/07/17 05:30	08/07/17 09:24	1
Vinyl chloride	ND		0.0042	0.0031	mg/Kg	☼	08/07/17 05:30	08/07/17 09:24	1
Xylenes, Total	ND		0.0085	0.0037	mg/Kg	☼	08/07/17 05:30	08/07/17 09:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*63 - 120*	*08/07/17 05:30*	*08/07/17 09:24*	*1*
Dibromofluoromethane (Surr)	*102*		*68 - 121*	*08/07/17 05:30*	*08/07/17 09:24*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*52 - 124*	*08/07/17 05:30*	*08/07/17 09:24*	*1*
Toluene-d8 (Surr)	*109*		*72 - 127*	*08/07/17 05:30*	*08/07/17 09:24*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**10.6**		0.1	0.1	%			08/04/17 11:05	1
Percent Solids	**89.4**		0.1	0.1	%			08/04/17 11:05	1

Client Sample ID: WB2-3, S3, B 08.02.17

Lab Sample ID: 180-68875-12
Date Collected: 08/02/17 16:15
Matrix: Solid
Date Received: 08/03/17 08:50
Percent Solids: 90.4

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.019	0.0030	mg/Kg	☼	08/04/17 05:28	08/04/17 16:59	1
Benzene	ND		0.0048	0.0019	mg/Kg	☼	08/04/17 05:28	08/04/17 16:59	1
2-Butanone (MEK)	ND		0.0048	0.0028	mg/Kg	☼	08/04/17 05:28	08/04/17 16:59	1

Client Sample ID: WB2-3, S3, B 08.02.17 — Lab Sample ID: 180-68875-12

Date Collected: 08/02/17 16:15 — **Matrix: Solid**
Date Received: 08/03/17 08:50 — **Percent Solids: 90.4**

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	ND		0.0048	0.0032	mg/Kg	☼	08/04/17 05:28	08/04/17 16:59	1
Chlorobenzene	ND		0.0048	0.0015	mg/Kg	☼	08/04/17 05:28	08/04/17 16:59	1
Chloroform	ND		0.0048	0.0020	mg/Kg	☼	08/04/17 05:28	08/04/17 16:59	1
cis-1,2-Dichloroethene	ND		0.0048	0.0015	mg/Kg	☼	08/04/17 05:28	08/04/17 16:59	1
1,2-Dichlorobenzene	ND		0.0048	0.0039	mg/Kg	☼	08/04/17 05:28	08/04/17 16:59	1
1,3-Dichlorobenzene	ND		0.0048	0.0015	mg/Kg	☼	08/04/17 05:28	08/04/17 16:59	1
1,4-Dichlorobenzene	ND		0.0048	0.00098	mg/Kg	☼	08/04/17 05:28	08/04/17 16:59	1
1,1-Dichloroethane	ND		0.0048	0.0017	mg/Kg	☼	08/04/17 05:28	08/04/17 16:59	1
1,2-Dichloroethane	ND		0.0048	0.0014	mg/Kg	☼	08/04/17 05:28	08/04/17 16:59	1
1,1-Dichloroethene	ND		0.0048	0.0027	mg/Kg	☼	08/04/17 05:28	08/04/17 16:59	1
Ethylbenzene	ND		0.0048	0.0021	mg/Kg	☼	08/04/17 05:28	08/04/17 16:59	1
Methylene Chloride	ND		0.0048	0.0023	mg/Kg	☼	08/04/17 05:28	08/04/17 16:59	1
Methyl tert-butyl ether	ND		0.0048	0.0035	mg/Kg	☼	08/04/17 05:28	08/04/17 16:59	1
n-Butylbenzene	ND		0.0048	0.0036	mg/Kg	☼	08/04/17 05:28	08/04/17 16:59	1
N-Propylbenzene	ND		0.0048	0.0020	mg/Kg	☼	08/04/17 05:28	08/04/17 16:59	1
sec-Butylbenzene	ND		0.0048	0.0023	mg/Kg	☼	08/04/17 05:28	08/04/17 16:59	1
tert-Butylbenzene	ND		0.0048	0.0018	mg/Kg	☼	08/04/17 05:28	08/04/17 16:59	1
Tetrachloroethene	ND		0.0048	0.0019	mg/Kg	☼	08/04/17 05:28	08/04/17 16:59	1
Toluene	ND		0.0048	0.0016	mg/Kg	☼	08/04/17 05:28	08/04/17 16:59	1
trans-1,2-Dichloroethene	ND		0.0048	0.0024	mg/Kg	☼	08/04/17 05:28	08/04/17 16:59	1
1,1,1-Trichloroethane	ND		0.0048	0.0024	mg/Kg	☼	08/04/17 05:28	08/04/17 16:59	1
Trichloroethene	ND		0.0048	0.0014	mg/Kg	☼	08/04/17 05:28	08/04/17 16:59	1
1,2,4-Trimethylbenzene	ND		0.0048	0.0013	mg/Kg	☼	08/04/17 05:28	08/04/17 16:59	1
1,3,5-Trimethylbenzene	ND		0.0048	0.0017	mg/Kg	☼	08/04/17 05:28	08/04/17 16:59	1
Vinyl chloride	ND		0.0048	0.0035	mg/Kg	☼	08/04/17 05:28	08/04/17 16:59	1
Xylenes, Total	ND		0.0096	0.0041	mg/Kg	☼	08/04/17 05:28	08/04/17 16:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*63 - 120*	*08/04/17 05:28*	*08/04/17 16:59*	*1*
Dibromofluoromethane (Surr)	*101*		*68 - 121*	*08/04/17 05:28*	*08/04/17 16:59*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*52 - 124*	*08/04/17 05:28*	*08/04/17 16:59*	*1*
Toluene-d8 (Surr)	*107*		*72 - 127*	*08/04/17 05:28*	*08/04/17 16:59*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.6**		0.1	0.1	%			08/04/17 11:05	1
Percent Solids	**90.4**		0.1	0.1	%			08/04/17 11:05	1

Client Sample ID: WB2-3, S3, C 08.02.17 — Lab Sample ID: 180-68875-13

Date Collected: 08/02/17 16:20 — **Matrix: Solid**
Date Received: 08/03/17 08:50 — **Percent Solids: 90.6**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.010**		0.0074	0.0025	mg/Kg	☼	08/13/17 12:17	08/14/17 10:32	1
Acenaphthylene	**0.12**		0.0074	0.0025	mg/Kg	☼	08/13/17 12:17	08/14/17 10:32	1
Anthracene	**0.097**		0.0074	0.0027	mg/Kg	☼	08/13/17 12:17	08/14/17 10:32	1
Benzo[a]anthracene	**0.26**		0.0074	0.0029	mg/Kg	☼	08/13/17 12:17	08/14/17 10:32	1
Benzo[a]pyrene	**0.25**		0.0074	0.0030	mg/Kg	☼	08/13/17 12:17	08/14/17 10:32	1
Benzo[b]fluoranthene	**0.37**		0.0074	0.0032	mg/Kg	☼	08/13/17 12:17	08/14/17 10:32	1

Client Sample ID: WB2-3, S3, C 08.02.17 **Lab Sample ID: 180-68875-13**
Date Collected: 08/02/17 16:20 **Matrix: Solid**
Date Received: 08/03/17 08:50 **Percent Solids: 90.6**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	**0.28**		0.0074	0.0032	mg/Kg	☼	08/13/17 12:17	08/14/17 10:32	1
Benzo[k]fluoranthene	**0.11**		0.0074	0.0025	mg/Kg	☼	08/13/17 12:17	08/14/17 10:32	1
Chrysene	**0.29**		0.0074	0.0029	mg/Kg	☼	08/13/17 12:17	08/14/17 10:32	1
Dibenz(a,h)anthracene	**0.067**		0.0074	0.0030	mg/Kg	☼	08/13/17 12:17	08/14/17 10:32	1
Dibenzofuran	**0.018**	**J**	0.036	0.0029	mg/Kg	☼	08/13/17 12:17	08/14/17 10:32	1
2,4-Dinitrotoluene	ND		36	4.9	ug/Kg	☼	08/13/17 12:17	08/14/17 10:32	1
1,4-Dioxane	ND		0.074	0.0055	mg/Kg	☼	08/13/17 12:17	08/14/17 10:32	1
Fluoranthene	**0.37**		0.0074	0.0029	mg/Kg	☼	08/13/17 12:17	08/14/17 10:32	1
Fluorene	**0.016**		0.0074	0.0026	mg/Kg	☼	08/13/17 12:17	08/14/17 10:32	1
Hexachlorobenzene	ND		0.0074	0.0030	mg/Kg	☼	08/13/17 12:17	08/14/17 10:32	1
Hexachlorobutadiene	ND		7.4	2.3	ug/Kg	☼	08/13/17 12:17	08/14/17 10:32	1
Hexachloroethane	ND		36	2.6	ug/Kg	☼	08/13/17 12:17	08/14/17 10:32	1
Indeno[1,2,3-cd]pyrene	**0.22**		0.0074	0.0028	mg/Kg	☼	08/13/17 12:17	08/14/17 10:32	1
2-Methylphenol	ND		0.036	0.0032	mg/Kg	☼	08/13/17 12:17	08/14/17 10:32	1
Methylphenol, 3 & 4	ND		0.036	0.0033	mg/Kg	☼	08/13/17 12:17	08/14/17 10:32	1
Naphthalene	**0.063**		0.0074	0.0026	mg/Kg	☼	08/13/17 12:17	08/14/17 10:32	1
Nitrobenzene	ND		74	2.8	ug/Kg	☼	08/13/17 12:17	08/14/17 10:32	1
Pentachlorophenol	ND		0.19	0.070	mg/Kg	☼	08/13/17 12:17	08/14/17 10:32	1
Phenanthrene	**0.15**		0.0074	0.0031	mg/Kg	☼	08/13/17 12:17	08/14/17 10:32	1
Phenol	ND		0.036	0.0050	mg/Kg	☼	08/13/17 12:17	08/14/17 10:32	1
Pyrene	**0.39**		0.0074	0.0033	mg/Kg	☼	08/13/17 12:17	08/14/17 10:32	1
Pyridine	ND		36	3.5	ug/Kg	☼	08/13/17 12:17	08/14/17 10:32	1
2,4,5-Trichlorophenol	ND		36	3.5	ug/Kg	☼	08/13/17 12:17	08/14/17 10:32	1
2,4,6-Trichlorophenol	ND		36	3.2	ug/Kg	☼	08/13/17 12:17	08/14/17 10:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*72*		*42 - 100*	*08/13/17 12:17*	*08/14/17 10:32*	*1*
2-Fluorophenol (Surr)	*57*		*21 - 107*	*08/13/17 12:17*	*08/14/17 10:32*	*1*
Nitrobenzene-d5 (Surr)	*68*		*35 - 109*	*08/13/17 12:17*	*08/14/17 10:32*	*1*
Phenol-d5 (Surr)	*60*		*29 - 105*	*08/13/17 12:17*	*08/14/17 10:32*	*1*
Terphenyl-d14 (Surr)	*61*		*36 - 113*	*08/13/17 12:17*	*08/14/17 10:32*	*1*
2,4,6-Tribromophenol (Surr)	*72*		*20 - 134*	*08/13/17 12:17*	*08/14/17 10:32*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.018	0.0098	mg/Kg	☼	08/14/17 03:48	08/15/17 00:45	1
PCB-1221	ND		0.018	0.0095	mg/Kg	☼	08/14/17 03:48	08/15/17 00:45	1
PCB-1232	ND		0.018	0.0073	mg/Kg	☼	08/14/17 03:48	08/15/17 00:45	1
PCB-1242	ND		0.018	0.015	mg/Kg	☼	08/14/17 03:48	08/15/17 00:45	1
PCB-1248	**1.6**		0.018	0.0088	mg/Kg	☼	08/14/17 03:48	08/15/17 00:45	1
PCB-1254	**1.2**		0.018	0.0081	mg/Kg	☼	08/14/17 03:48	08/15/17 00:45	1
PCB-1260	**0.19**		0.018	0.012	mg/Kg	☼	08/14/17 03:48	08/15/17 00:45	1
PCB-1262	ND		0.018	0.013	mg/Kg	☼	08/14/17 03:48	08/15/17 00:45	1
PCB-1268	ND		0.018	0.0056	mg/Kg	☼	08/14/17 03:48	08/15/17 00:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*78*		*23 - 150*	*08/14/17 03:48*	*08/15/17 00:45*	*1*
DCB Decachlorobiphenyl (Surr)	*82*		*23 - 150*	*08/14/17 03:48*	*08/15/17 00:45*	*1*
Tetrachloro-m-xylene (Surr)	*79*		*27 - 138*	*08/14/17 03:48*	*08/15/17 00:45*	*1*
Tetrachloro-m-xylene (Surr)	*67*		*27 - 138*	*08/14/17 03:48*	*08/15/17 00:45*	*1*

Client Sample ID: WB2-3, S3, C 08.02.17 — Lab Sample ID: 180-68875-13

Date Collected: 08/02/17 16:20 — **Matrix: Solid**
Date Received: 08/03/17 08:50 — **Percent Solids: 90.6**

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.8		1.1	0.51	mg/Kg	☼	08/08/17 14:03	08/10/17 12:19	1
Barium	91		23	6.2	mg/Kg	☼	08/08/17 14:03	08/10/17 12:19	1
Beryllium	0.39	J	0.46	0.12	mg/Kg	☼	08/08/17 14:03	08/10/17 12:19	1
Cadmium	0.17	J	0.57	0.13	mg/Kg	☼	08/08/17 14:03	08/10/17 12:19	1
Chromium	10		0.57	0.15	mg/Kg	☼	08/08/17 14:03	08/10/17 12:19	1
Copper	36		2.9	0.88	mg/Kg	☼	08/08/17 14:03	08/10/17 12:19	1
Lead	40		1.1	0.38	mg/Kg	☼	08/08/17 14:03	08/10/17 12:19	1
Manganese	420		1.7	0.47	mg/Kg	☼	08/08/17 14:03	08/10/17 12:19	1
Nickel	20		4.6	1.0	mg/Kg	☼	08/08/17 14:03	08/10/17 12:19	1
Selenium	ND		1.1	0.46	mg/Kg	☼	08/08/17 14:03	08/10/17 12:19	1
Silver	ND		0.57	0.19	mg/Kg	☼	08/08/17 14:03	08/10/17 12:19	1
Zinc	66		2.3	1.2	mg/Kg	☼	08/08/17 14:03	08/10/17 12:19	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.094		0.036	0.0082	mg/Kg	☼	08/08/17 17:30	08/09/17 11:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.4		0.1	0.1	%			08/04/17 11:05	1
Percent Solids	90.6		0.1	0.1	%			08/04/17 11:05	1
Cyanide, Total	0.21	J	0.55	0.17	mg/Kg	☼	08/07/17 11:25	08/07/17 15:40	1

Client Sample ID: DUP 24 — Lab Sample ID: 180-68875-14

Date Collected: 08/02/17 00:00 — **Matrix: Solid**
Date Received: 08/03/17 08:50 — **Percent Solids: 88.6**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.019	0.0031	mg/Kg	☼	08/04/17 05:28	08/04/17 17:22	1
Benzene	ND		0.0049	0.0019	mg/Kg	☼	08/04/17 05:28	08/04/17 17:22	1
2-Butanone (MEK)	ND		0.0049	0.0028	mg/Kg	☼	08/04/17 05:28	08/04/17 17:22	1
Carbon tetrachloride	ND		0.0049	0.0032	mg/Kg	☼	08/04/17 05:28	08/04/17 17:22	1
Chlorobenzene	ND		0.0049	0.0015	mg/Kg	☼	08/04/17 05:28	08/04/17 17:22	1
Chloroform	ND		0.0049	0.0021	mg/Kg	☼	08/04/17 05:28	08/04/17 17:22	1
cis-1,2-Dichloroethene	ND		0.0049	0.0015	mg/Kg	☼	08/04/17 05:28	08/04/17 17:22	1
1,2-Dichlorobenzene	ND		0.0049	0.0039	mg/Kg	☼	08/04/17 05:28	08/04/17 17:22	1
1,3-Dichlorobenzene	ND		0.0049	0.0015	mg/Kg	☼	08/04/17 05:28	08/04/17 17:22	1
1,4-Dichlorobenzene	ND		0.0049	0.00099	mg/Kg	☼	08/04/17 05:28	08/04/17 17:22	1
1,1-Dichloroethane	ND		0.0049	0.0018	mg/Kg	☼	08/04/17 05:28	08/04/17 17:22	1
1,2-Dichloroethane	ND		0.0049	0.0014	mg/Kg	☼	08/04/17 05:28	08/04/17 17:22	1
1,1-Dichloroethene	ND		0.0049	0.0028	mg/Kg	☼	08/04/17 05:28	08/04/17 17:22	1
Ethylbenzene	ND		0.0049	0.0021	mg/Kg	☼	08/04/17 05:28	08/04/17 17:22	1
Methylene Chloride	ND		0.0049	0.0023	mg/Kg	☼	08/04/17 05:28	08/04/17 17:22	1
Methyl tert-butyl ether	ND		0.0049	0.0036	mg/Kg	☼	08/04/17 05:28	08/04/17 17:22	1
n-Butylbenzene	ND		0.0049	0.0037	mg/Kg	☼	08/04/17 05:28	08/04/17 17:22	1
N-Propylbenzene	ND		0.0049	0.0020	mg/Kg	☼	08/04/17 05:28	08/04/17 17:22	1
sec-Butylbenzene	ND		0.0049	0.0024	mg/Kg	☼	08/04/17 05:28	08/04/17 17:22	1
tert-Butylbenzene	ND		0.0049	0.0018	mg/Kg	☼	08/04/17 05:28	08/04/17 17:22	1
Tetrachloroethene	ND		0.0049	0.0019	mg/Kg	☼	08/04/17 05:28	08/04/17 17:22	1

Client Sample ID: DUP 24 — Lab Sample ID: 180-68875-14

Date Collected: 08/02/17 00:00 — **Matrix: Solid**
Date Received: 08/03/17 08:50 — **Percent Solids: 88.6**

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		0.0049	0.0016	mg/Kg	☼	08/04/17 05:28	08/04/17 17:22	1
trans-1,2-Dichloroethene	ND		0.0049	0.0025	mg/Kg	☼	08/04/17 05:28	08/04/17 17:22	1
1,1,1-Trichloroethane	ND		0.0049	0.0024	mg/Kg	☼	08/04/17 05:28	08/04/17 17:22	1
Trichloroethene	ND		0.0049	0.0015	mg/Kg	☼	08/04/17 05:28	08/04/17 17:22	1
1,2,4-Trimethylbenzene	ND		0.0049	0.0013	mg/Kg	☼	08/04/17 05:28	08/04/17 17:22	1
1,3,5-Trimethylbenzene	ND		0.0049	0.0017	mg/Kg	☼	08/04/17 05:28	08/04/17 17:22	1
Vinyl chloride	ND		0.0049	0.0036	mg/Kg	☼	08/04/17 05:28	08/04/17 17:22	1
Xylenes, Total	ND		0.0097	0.0042	mg/Kg	☼	08/04/17 05:28	08/04/17 17:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*63 - 120*	*08/04/17 05:28*	*08/04/17 17:22*	*1*
Dibromofluoromethane (Surr)	*103*		*68 - 121*	*08/04/17 05:28*	*08/04/17 17:22*	*1*
1,2-Dichloroethane-d4 (Surr)	*108*		*52 - 124*	*08/04/17 05:28*	*08/04/17 17:22*	*1*
Toluene-d8 (Surr)	*113*		*72 - 127*	*08/04/17 05:28*	*08/04/17 17:22*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**11.4**		0.1	0.1	%			08/04/17 11:05	1
Percent Solids	**88.6**		0.1	0.1	%			08/04/17 11:05	1

Client Sample ID: TRIP BLANK #1 — Lab Sample ID: 180-68875-15

Date Collected: 08/02/17 00:00 — **Matrix: Water**
Date Received: 08/03/17 08:50

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		5.0	3.1	ug/L			08/07/17 05:42	1
Benzene	ND		1.0	0.18	ug/L			08/07/17 05:42	1
2-Butanone (MEK)	ND		5.0	2.6	ug/L			08/07/17 05:42	1
Carbon tetrachloride	ND		1.0	0.56	ug/L			08/07/17 05:42	1
Chlorobenzene	ND		1.0	0.15	ug/L			08/07/17 05:42	1
Chloroform	ND		1.0	0.27	ug/L			08/07/17 05:42	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			08/07/17 05:42	1
1,2-Dichlorobenzene	ND		1.0	0.23	ug/L			08/07/17 05:42	1
1,3-Dichlorobenzene	ND		1.0	0.21	ug/L			08/07/17 05:42	1
1,4-Dichlorobenzene	ND		1.0	0.24	ug/L			08/07/17 05:42	1
1,1-Dichloroethane	ND		1.0	0.34	ug/L			08/07/17 05:42	1
1,2-Dichloroethane	ND		1.0	0.24	ug/L			08/07/17 05:42	1
1,1-Dichloroethene	ND		1.0	0.32	ug/L			08/07/17 05:42	1
Ethylbenzene	ND		1.0	0.25	ug/L			08/07/17 05:42	1
Methylene Chloride	ND		1.0	0.94	ug/L			08/07/17 05:42	1
Methyl tert-butyl ether	ND		1.0	0.20	ug/L			08/07/17 05:42	1
n-Butylbenzene	ND		1.0	0.22	ug/L			08/07/17 05:42	1
N-Propylbenzene	ND		1.0	0.20	ug/L			08/07/17 05:42	1
sec-Butylbenzene	ND		1.0	0.22	ug/L			08/07/17 05:42	1
tert-Butylbenzene	ND		1.0	0.17	ug/L			08/07/17 05:42	1
Tetrachloroethene	ND		1.0	0.24	ug/L			08/07/17 05:42	1
Toluene	ND		1.0	0.16	ug/L			08/07/17 05:42	1
trans-1,2-Dichloroethene	ND		1.0	0.20	ug/L			08/07/17 05:42	1
1,1,1-Trichloroethane	ND		1.0	0.27	ug/L			08/07/17 05:42	1

Client Sample ID: TRIP BLANK #1
Date Collected: 08/02/17 00:00
Date Received: 08/03/17 08:50

Lab Sample ID: 180-68875-15
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	ND		1.0	0.20	ug/L			08/07/17 05:42	1
1,2,4-Trimethylbenzene	ND		1.0	0.18	ug/L			08/07/17 05:42	1
1,3,5-Trimethylbenzene	ND		1.0	0.17	ug/L			08/07/17 05:42	1
Vinyl chloride	ND		1.0	0.17	ug/L			08/07/17 05:42	1
Xylenes, Total	ND		2.0	0.27	ug/L			08/07/17 05:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*72 - 120*		*08/07/17 05:42*	*1*
Dibromofluoromethane (Surr)	*94*		*77 - 127*		*08/07/17 05:42*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*72 - 134*		*08/07/17 05:42*	*1*
Toluene-d8 (Surr)	*89*		*80 - 120*		*08/07/17 05:42*	*1*

Method: 8260C - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 180-219231/5
Matrix: Water
Analysis Batch: 219231

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		5.0	3.1	ug/L			08/07/17 03:30	1
Benzene	ND		1.0	0.18	ug/L			08/07/17 03:30	1
2-Butanone (MEK)	ND		5.0	2.6	ug/L			08/07/17 03:30	1
Carbon tetrachloride	ND		1.0	0.56	ug/L			08/07/17 03:30	1
Chlorobenzene	ND		1.0	0.15	ug/L			08/07/17 03:30	1
Chloroform	ND		1.0	0.27	ug/L			08/07/17 03:30	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			08/07/17 03:30	1
1,2-Dichlorobenzene	ND		1.0	0.23	ug/L			08/07/17 03:30	1
1,3-Dichlorobenzene	ND		1.0	0.21	ug/L			08/07/17 03:30	1
1,4-Dichlorobenzene	ND		1.0	0.24	ug/L			08/07/17 03:30	1
1,1-Dichloroethane	ND		1.0	0.34	ug/L			08/07/17 03:30	1
1,2-Dichloroethane	ND		1.0	0.24	ug/L			08/07/17 03:30	1
1,1-Dichloroethene	ND		1.0	0.32	ug/L			08/07/17 03:30	1
Ethylbenzene	ND		1.0	0.25	ug/L			08/07/17 03:30	1
Methylene Chloride	ND		1.0	0.94	ug/L			08/07/17 03:30	1
Methyl tert-butyl ether	ND		1.0	0.20	ug/L			08/07/17 03:30	1
n-Butylbenzene	ND		1.0	0.22	ug/L			08/07/17 03:30	1
N-Propylbenzene	ND		1.0	0.20	ug/L			08/07/17 03:30	1
sec-Butylbenzene	ND		1.0	0.22	ug/L			08/07/17 03:30	1
tert-Butylbenzene	ND		1.0	0.17	ug/L			08/07/17 03:30	1
Tetrachloroethene	ND		1.0	0.24	ug/L			08/07/17 03:30	1
Toluene	ND		1.0	0.16	ug/L			08/07/17 03:30	1
trans-1,2-Dichloroethene	ND		1.0	0.20	ug/L			08/07/17 03:30	1
1,1,1-Trichloroethane	ND		1.0	0.27	ug/L			08/07/17 03:30	1
Trichloroethene	ND		1.0	0.20	ug/L			08/07/17 03:30	1
1,2,4-Trimethylbenzene	ND		1.0	0.18	ug/L			08/07/17 03:30	1
1,3,5-Trimethylbenzene	ND		1.0	0.17	ug/L			08/07/17 03:30	1
Vinyl chloride	ND		1.0	0.17	ug/L			08/07/17 03:30	1
Xylenes, Total	ND		2.0	0.27	ug/L			08/07/17 03:30	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*72 - 120*		*08/07/17 03:30*	*1*
Dibromofluoromethane (Surr)	*92*		*77 - 127*		*08/07/17 03:30*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*72 - 134*		*08/07/17 03:30*	*1*
Toluene-d8 (Surr)	*88*		*80 - 120*		*08/07/17 03:30*	*1*

Lab Sample ID: LCS 180-219231/3
Matrix: Water
Analysis Batch: 219231

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	20.0	15.6		ug/L		78	10 - 150
Benzene	10.0	9.27		ug/L		93	80 - 121
2-Butanone (MEK)	20.0	16.3		ug/L		81	41 - 150
Carbon tetrachloride	10.0	9.02		ug/L		90	59 - 145
Chlorobenzene	10.0	9.49		ug/L		95	80 - 120
Chloroform	10.0	9.21		ug/L		92	78 - 122
cis-1,2-Dichloroethene	10.0	8.99		ug/L		90	80 - 120

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 180-219231/3
Matrix: Water
Analysis Batch: 219231

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichlorobenzene	10.0	8.84		ug/L		88	80 - 120
1,3-Dichlorobenzene	10.0	8.72		ug/L		87	80 - 120
1,4-Dichlorobenzene	10.0	8.77		ug/L		88	80 - 120
1,1-Dichloroethane	10.0	9.48		ug/L		95	76 - 126
1,2-Dichloroethane	10.0	9.31		ug/L		93	72 - 126
1,1-Dichloroethene	10.0	9.62		ug/L		96	71 - 122
Ethylbenzene	10.0	9.41		ug/L		94	80 - 123
Methylene Chloride	10.0	9.46		ug/L		95	71 - 129
Methyl tert-butyl ether	10.0	9.70		ug/L		97	68 - 124
n-Butylbenzene	10.0	9.28		ug/L		93	75 - 120
N-Propylbenzene	10.0	8.95		ug/L		90	78 - 121
sec-Butylbenzene	10.0	9.51		ug/L		95	80 - 121
tert-Butylbenzene	10.0	9.22		ug/L		92	79 - 120
Tetrachloroethene	10.0	9.34		ug/L		93	80 - 122
Toluene	10.0	10.0		ug/L		100	80 - 125
trans-1,2-Dichloroethene	10.0	9.34		ug/L		93	80 - 121
1,1,1-Trichloroethane	10.0	9.20		ug/L		92	57 - 128
Trichloroethene	10.0	8.92		ug/L		89	79 - 120
1,2,4-Trimethylbenzene	10.0	8.95		ug/L		90	80 - 120
1,3,5-Trimethylbenzene	10.0	9.22		ug/L		92	80 - 122
Vinyl chloride	10.0	10.2		ug/L		102	61 - 138
Xylenes, Total	20.0	19.5		ug/L		97	80 - 123

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*72 - 120*
Dibromofluoromethane (Surr)	*91*		*77 - 127*
1,2-Dichloroethane-d4 (Surr)	*95*		*72 - 134*
Toluene-d8 (Surr)	*101*		*80 - 120*

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 180-219096/9
Matrix: Solid
Analysis Batch: 219096

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.020	0.0032	mg/Kg			08/04/17 10:28	1
Benzene	ND		0.0050	0.0020	mg/Kg			08/04/17 10:28	1
2-Butanone (MEK)	ND		0.0050	0.0029	mg/Kg			08/04/17 10:28	1
Carbon tetrachloride	ND		0.0050	0.0033	mg/Kg			08/04/17 10:28	1
Chlorobenzene	ND		0.0050	0.0016	mg/Kg			08/04/17 10:28	1
Chloroform	ND		0.0050	0.0021	mg/Kg			08/04/17 10:28	1
cis-1,2-Dichloroethene	ND		0.0050	0.0016	mg/Kg			08/04/17 10:28	1
1,2-Dichlorobenzene	ND		0.0050	0.0040	mg/Kg			08/04/17 10:28	1
1,3-Dichlorobenzene	ND		0.0050	0.0016	mg/Kg			08/04/17 10:28	1
1,4-Dichlorobenzene	ND		0.0050	0.0010	mg/Kg			08/04/17 10:28	1
1,1-Dichloroethane	ND		0.0050	0.0018	mg/Kg			08/04/17 10:28	1
1,2-Dichloroethane	ND		0.0050	0.0015	mg/Kg			08/04/17 10:28	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 180-219096/9
Matrix: Solid
Analysis Batch: 219096

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		0.0050	0.0029	mg/Kg			08/04/17 10:28	1
Ethylbenzene	ND		0.0050	0.0022	mg/Kg			08/04/17 10:28	1
Methylene Chloride	ND		0.0050	0.0024	mg/Kg			08/04/17 10:28	1
Methyl tert-butyl ether	ND		0.0050	0.0037	mg/Kg			08/04/17 10:28	1
n-Butylbenzene	ND		0.0050	0.0038	mg/Kg			08/04/17 10:28	1
N-Propylbenzene	ND		0.0050	0.0021	mg/Kg			08/04/17 10:28	1
sec-Butylbenzene	ND		0.0050	0.0024	mg/Kg			08/04/17 10:28	1
tert-Butylbenzene	ND		0.0050	0.0018	mg/Kg			08/04/17 10:28	1
Tetrachloroethene	ND		0.0050	0.0020	mg/Kg			08/04/17 10:28	1
Toluene	ND		0.0050	0.0017	mg/Kg			08/04/17 10:28	1
trans-1,2-Dichloroethene	ND		0.0050	0.0025	mg/Kg			08/04/17 10:28	1
1,1,1-Trichloroethane	ND		0.0050	0.0025	mg/Kg			08/04/17 10:28	1
Trichloroethene	ND		0.0050	0.0015	mg/Kg			08/04/17 10:28	1
1,2,4-Trimethylbenzene	ND		0.0050	0.0013	mg/Kg			08/04/17 10:28	1
1,3,5-Trimethylbenzene	ND		0.0050	0.0017	mg/Kg			08/04/17 10:28	1
Vinyl chloride	ND		0.0050	0.0037	mg/Kg			08/04/17 10:28	1
Xylenes, Total	ND		0.010	0.0043	mg/Kg			08/04/17 10:28	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*63 - 120*		*08/04/17 10:28*	*1*
Dibromofluoromethane (Surr)	*98*		*68 - 121*		*08/04/17 10:28*	*1*
1,2-Dichloroethane-d4 (Surr)	*116*		*52 - 124*		*08/04/17 10:28*	*1*
Toluene-d8 (Surr)	*100*		*72 - 127*		*08/04/17 10:28*	*1*

Lab Sample ID: LCS 180-219096/4
Matrix: Solid
Analysis Batch: 219096

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0400	0.0358		mg/Kg		90	20 - 150
Benzene	0.0400	0.0396		mg/Kg		99	77 - 120
2-Butanone (MEK)	0.0400	0.0326		mg/Kg		82	35 - 149
Carbon tetrachloride	0.0400	0.0455		mg/Kg		114	69 - 122
Chlorobenzene	0.0400	0.0381		mg/Kg		95	79 - 120
Chloroform	0.0400	0.0430		mg/Kg		107	72 - 120
cis-1,2-Dichloroethene	0.0400	0.0400		mg/Kg		100	80 - 118
1,2-Dichlorobenzene	0.0400	0.0376		mg/Kg		94	71 - 124
1,3-Dichlorobenzene	0.0400	0.0369		mg/Kg		92	75 - 118
1,4-Dichlorobenzene	0.0400	0.0377		mg/Kg		94	77 - 116
1,1-Dichloroethane	0.0400	0.0434		mg/Kg		109	66 - 124
1,2-Dichloroethane	0.0400	0.0474		mg/Kg		119	61 - 127
1,1-Dichloroethene	0.0400	0.0408		mg/Kg		102	59 - 129
Ethylbenzene	0.0400	0.0385		mg/Kg		96	78 - 125
Methylene Chloride	0.0400	0.0428		mg/Kg		107	58 - 127
Methyl tert-butyl ether	0.0400	0.0449		mg/Kg		112	48 - 132
n-Butylbenzene	0.0400	0.0434		mg/Kg		109	59 - 145
N-Propylbenzene	0.0400	0.0396		mg/Kg		99	80 - 120
sec-Butylbenzene	0.0400	0.0417		mg/Kg		104	70 - 130

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 180-219096/4
Matrix: Solid
Analysis Batch: 219096

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
tert-Butylbenzene	0.0400	0.0405		mg/Kg		101	74 - 133
Tetrachloroethene	0.0400	0.0347		mg/Kg		87	78 - 129
Toluene	0.0400	0.0387		mg/Kg		97	78 - 124
trans-1,2-Dichloroethene	0.0400	0.0432		mg/Kg		108	77 - 121
1,1,1-Trichloroethane	0.0400	0.0464		mg/Kg		116	67 - 126
Trichloroethene	0.0400	0.0374		mg/Kg		94	76 - 119
1,2,4-Trimethylbenzene	0.0400	0.0405		mg/Kg		101	80 - 121
1,3,5-Trimethylbenzene	0.0400	0.0406		mg/Kg		102	68 - 133
Vinyl chloride	0.0400	0.0384		mg/Kg		96	63 - 124
Xylenes, Total	0.0800	0.0762		mg/Kg		95	83 - 126

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*63 - 120*
Dibromofluoromethane (Surr)	*99*		*68 - 121*
1,2-Dichloroethane-d4 (Surr)	*114*		*52 - 124*
Toluene-d8 (Surr)	*98*		*72 - 127*

Lab Sample ID: MB 180-219248/8
Matrix: Solid
Analysis Batch: 219248

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.020	0.0032	mg/Kg			08/07/17 08:39	1
Benzene	ND		0.0050	0.0020	mg/Kg			08/07/17 08:39	1
2-Butanone (MEK)	ND		0.0050	0.0029	mg/Kg			08/07/17 08:39	1
Carbon tetrachloride	ND		0.0050	0.0033	mg/Kg			08/07/17 08:39	1
Chlorobenzene	ND		0.0050	0.0016	mg/Kg			08/07/17 08:39	1
Chloroform	ND		0.0050	0.0021	mg/Kg			08/07/17 08:39	1
cis-1,2-Dichloroethene	ND		0.0050	0.0016	mg/Kg			08/07/17 08:39	1
1,2-Dichlorobenzene	ND		0.0050	0.0040	mg/Kg			08/07/17 08:39	1
1,3-Dichlorobenzene	ND		0.0050	0.0016	mg/Kg			08/07/17 08:39	1
1,4-Dichlorobenzene	ND		0.0050	0.0010	mg/Kg			08/07/17 08:39	1
1,1-Dichloroethane	ND		0.0050	0.0018	mg/Kg			08/07/17 08:39	1
1,2-Dichloroethane	ND		0.0050	0.0015	mg/Kg			08/07/17 08:39	1
1,1-Dichloroethene	ND		0.0050	0.0029	mg/Kg			08/07/17 08:39	1
Ethylbenzene	ND		0.0050	0.0022	mg/Kg			08/07/17 08:39	1
Methylene Chloride	ND		0.0050	0.0024	mg/Kg			08/07/17 08:39	1
Methyl tert-butyl ether	ND		0.0050	0.0037	mg/Kg			08/07/17 08:39	1
n-Butylbenzene	ND		0.0050	0.0038	mg/Kg			08/07/17 08:39	1
N-Propylbenzene	ND		0.0050	0.0021	mg/Kg			08/07/17 08:39	1
sec-Butylbenzene	ND		0.0050	0.0024	mg/Kg			08/07/17 08:39	1
tert-Butylbenzene	ND		0.0050	0.0018	mg/Kg			08/07/17 08:39	1
Tetrachloroethene	ND		0.0050	0.0020	mg/Kg			08/07/17 08:39	1
Toluene	ND		0.0050	0.0017	mg/Kg			08/07/17 08:39	1
trans-1,2-Dichloroethene	ND		0.0050	0.0025	mg/Kg			08/07/17 08:39	1
1,1,1-Trichloroethane	ND		0.0050	0.0025	mg/Kg			08/07/17 08:39	1
Trichloroethene	ND		0.0050	0.0015	mg/Kg			08/07/17 08:39	1
1,2,4-Trimethylbenzene	ND		0.0050	0.0013	mg/Kg			08/07/17 08:39	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 180-219248/8
Matrix: Solid
Analysis Batch: 219248

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	ND		0.0050	0.0017	mg/Kg			08/07/17 08:39	1
Vinyl chloride	ND		0.0050	0.0037	mg/Kg			08/07/17 08:39	1
Xylenes, Total	ND		0.010	0.0043	mg/Kg			08/07/17 08:39	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*63 - 120*		*08/07/17 08:39*	*1*
Dibromofluoromethane (Surr)	*100*		*68 - 121*		*08/07/17 08:39*	*1*
1,2-Dichloroethane-d4 (Surr)	*120*		*52 - 124*		*08/07/17 08:39*	*1*
Toluene-d8 (Surr)	*100*		*72 - 127*		*08/07/17 08:39*	*1*

Lab Sample ID: LCS 180-219248/3
Matrix: Solid
Analysis Batch: 219248

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0400	0.0353		mg/Kg		88	20 - 150
Benzene	0.0400	0.0400		mg/Kg		100	77 - 120
2-Butanone (MEK)	0.0400	0.0321		mg/Kg		80	35 - 149
Carbon tetrachloride	0.0400	0.0479		mg/Kg		120	69 - 122
Chlorobenzene	0.0400	0.0385		mg/Kg		96	79 - 120
Chloroform	0.0400	0.0433		mg/Kg		108	72 - 120
cis-1,2-Dichloroethene	0.0400	0.0399		mg/Kg		100	80 - 118
1,2-Dichlorobenzene	0.0400	0.0362		mg/Kg		91	71 - 124
1,3-Dichlorobenzene	0.0400	0.0361		mg/Kg		90	75 - 118
1,4-Dichlorobenzene	0.0400	0.0366		mg/Kg		92	77 - 116
1,1-Dichloroethane	0.0400	0.0438		mg/Kg		109	66 - 124
1,2-Dichloroethane	0.0400	0.0464		mg/Kg		116	61 - 127
1,1-Dichloroethene	0.0400	0.0428		mg/Kg		107	59 - 129
Ethylbenzene	0.0400	0.0378		mg/Kg		95	78 - 125
Methylene Chloride	0.0400	0.0426		mg/Kg		106	58 - 127
Methyl tert-butyl ether	0.0400	0.0438		mg/Kg		109	48 - 132
n-Butylbenzene	0.0400	0.0434		mg/Kg		109	59 - 145
N-Propylbenzene	0.0400	0.0381		mg/Kg		95	80 - 120
sec-Butylbenzene	0.0400	0.0410		mg/Kg		103	70 - 130
tert-Butylbenzene	0.0400	0.0401		mg/Kg		100	74 - 133
Tetrachloroethene	0.0400	0.0353		mg/Kg		88	78 - 129
Toluene	0.0400	0.0393		mg/Kg		98	78 - 124
trans-1,2-Dichloroethene	0.0400	0.0434		mg/Kg		108	77 - 121
1,1,1-Trichloroethane	0.0400	0.0497		mg/Kg		124	67 - 126
Trichloroethene	0.0400	0.0371		mg/Kg		93	76 - 119
1,2,4-Trimethylbenzene	0.0400	0.0396		mg/Kg		99	80 - 121
1,3,5-Trimethylbenzene	0.0400	0.0396		mg/Kg		99	68 - 133
Vinyl chloride	0.0400	0.0398		mg/Kg		99	63 - 124
Xylenes, Total	0.0800	0.0760		mg/Kg		95	83 - 126

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*107*		*63 - 120*

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 180-219248/3
Matrix: Solid
Analysis Batch: 219248

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Dibromofluoromethane (Surr)	*104*		*68 - 121*
1,2-Dichloroethane-d4 (Surr)	*117*		*52 - 124*
Toluene-d8 (Surr)	*103*		*72 - 127*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Lab Sample ID: MB 180-219916/1-A
Matrix: Solid
Analysis Batch: 219952

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 219916

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0034	0.0011	mg/Kg		08/13/17 12:17	08/14/17 09:39	1
Acenaphthylene	ND		0.0034	0.0011	mg/Kg		08/13/17 12:17	08/14/17 09:39	1
Anthracene	ND		0.0034	0.0012	mg/Kg		08/13/17 12:17	08/14/17 09:39	1
Benzo[a]anthracene	ND		0.0034	0.0013	mg/Kg		08/13/17 12:17	08/14/17 09:39	1
Benzo[a]pyrene	ND		0.0034	0.0014	mg/Kg		08/13/17 12:17	08/14/17 09:39	1
Benzo[b]fluoranthene	ND		0.0034	0.0014	mg/Kg		08/13/17 12:17	08/14/17 09:39	1
Benzo[g,h,i]perylene	ND		0.0034	0.0014	mg/Kg		08/13/17 12:17	08/14/17 09:39	1
Benzo[k]fluoranthene	ND		0.0034	0.0012	mg/Kg		08/13/17 12:17	08/14/17 09:39	1
Chrysene	ND		0.0034	0.0013	mg/Kg		08/13/17 12:17	08/14/17 09:39	1
Dibenz(a,h)anthracene	ND		0.0034	0.0014	mg/Kg		08/13/17 12:17	08/14/17 09:39	1
Dibenzofuran	ND		0.017	0.0013	mg/Kg		08/13/17 12:17	08/14/17 09:39	1
2,4-Dinitrotoluene	ND		17	2.2	ug/Kg		08/13/17 12:17	08/14/17 09:39	1
1,4-Dioxane	ND		0.033	0.0025	mg/Kg		08/13/17 12:17	08/14/17 09:39	1
Fluoranthene	ND		0.0034	0.0013	mg/Kg		08/13/17 12:17	08/14/17 09:39	1
Fluorene	ND		0.0034	0.0012	mg/Kg		08/13/17 12:17	08/14/17 09:39	1
Hexachlorobenzene	ND		0.0034	0.0013	mg/Kg		08/13/17 12:17	08/14/17 09:39	1
Hexachlorobutadiene	ND		3.4	1.1	ug/Kg		08/13/17 12:17	08/14/17 09:39	1
Hexachloroethane	ND		17	1.2	ug/Kg		08/13/17 12:17	08/14/17 09:39	1
Indeno[1,2,3-cd]pyrene	ND		0.0034	0.0013	mg/Kg		08/13/17 12:17	08/14/17 09:39	1
2-Methylphenol	ND		0.017	0.0015	mg/Kg		08/13/17 12:17	08/14/17 09:39	1
Methylphenol, 3 & 4	ND		0.017	0.0015	mg/Kg		08/13/17 12:17	08/14/17 09:39	1
Naphthalene	ND		0.0034	0.0012	mg/Kg		08/13/17 12:17	08/14/17 09:39	1
Nitrobenzene	ND		33	1.3	ug/Kg		08/13/17 12:17	08/14/17 09:39	1
Pentachlorophenol	ND		0.085	0.032	mg/Kg		08/13/17 12:17	08/14/17 09:39	1
Phenanthrene	ND		0.0034	0.0014	mg/Kg		08/13/17 12:17	08/14/17 09:39	1
Phenol	ND		0.017	0.0023	mg/Kg		08/13/17 12:17	08/14/17 09:39	1
Pyrene	ND		0.0034	0.0015	mg/Kg		08/13/17 12:17	08/14/17 09:39	1
Pyridine	ND		17	1.6	ug/Kg		08/13/17 12:17	08/14/17 09:39	1
2,4,5-Trichlorophenol	ND		17	1.6	ug/Kg		08/13/17 12:17	08/14/17 09:39	1
2,4,6-Trichlorophenol	ND		17	1.5	ug/Kg		08/13/17 12:17	08/14/17 09:39	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	*78*		*42 - 100*	*08/13/17 12:17*	*08/14/17 09:39*	*1*
2-Fluorophenol (Surr)	*75*		*21 - 107*	*08/13/17 12:17*	*08/14/17 09:39*	*1*
Nitrobenzene-d5 (Surr)	*77*		*35 - 109*	*08/13/17 12:17*	*08/14/17 09:39*	*1*
Phenol-d5 (Surr)	*77*		*29 - 105*	*08/13/17 12:17*	*08/14/17 09:39*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: MB 180-219916/1-A
Matrix: Solid
Analysis Batch: 219952

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 219916

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14 (Surr)	*81*		*36 - 113*	*08/13/17 12:17*	*08/14/17 09:39*	*1*
2,4,6-Tribromophenol (Surr)	*75*		*20 - 134*	*08/13/17 12:17*	*08/14/17 09:39*	*1*

Lab Sample ID: LCS 180-219916/2-A
Matrix: Solid
Analysis Batch: 219952

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 219916

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	0.333	0.238		mg/Kg		71	39 - 100
Acenaphthylene	0.333	0.240		mg/Kg		72	42 - 100
Anthracene	0.333	0.248		mg/Kg		74	43 - 100
Benzo[a]anthracene	0.333	0.240		mg/Kg		72	43 - 100
Benzo[a]pyrene	0.333	0.242		mg/Kg		72	43 - 100
Benzo[b]fluoranthene	0.333	0.230		mg/Kg		69	40 - 100
Benzo[g,h,i]perylene	0.333	0.230		mg/Kg		69	41 - 102
Benzo[k]fluoranthene	0.333	0.242		mg/Kg		73	44 - 100
Chrysene	0.333	0.242		mg/Kg		73	44 - 100
Dibenz(a,h)anthracene	0.333	0.234		mg/Kg		70	40 - 104
Dibenzofuran	0.333	0.243		mg/Kg		73	42 - 100
2,4-Dinitrotoluene	333	263		ug/Kg		79	42 - 110
1,4-Dioxane	0.333	0.231		mg/Kg		69	19 - 107
Fluoranthene	0.333	0.255		mg/Kg		77	41 - 104
Fluorene	0.333	0.243		mg/Kg		73	41 - 100
Hexachlorobenzene	0.333	0.242		mg/Kg		73	43 - 100
Hexachlorobutadiene	333	233		ug/Kg		70	35 - 100
Hexachloroethane	333	231		ug/Kg		69	35 - 100
Indeno[1,2,3-cd]pyrene	0.333	0.233		mg/Kg		70	41 - 104
2-Methylphenol	0.333	0.241		mg/Kg		72	38 - 100
Methylphenol, 3 & 4	0.333	0.244		mg/Kg		73	40 - 100
Naphthalene	0.333	0.236		mg/Kg		71	38 - 100
Nitrobenzene	333	241		ug/Kg		72	34 - 100
Pentachlorophenol	0.667	0.364		mg/Kg		55	34 - 102
Phenanthrene	0.333	0.243		mg/Kg		73	41 - 100
Phenol	0.333	0.234		mg/Kg		70	36 - 100
Pyrene	0.333	0.241		mg/Kg		72	42 - 100
Pyridine	667	503		ug/Kg		75	25 - 119
2,4,5-Trichlorophenol	333	215		ug/Kg		65	42 - 100
2,4,6-Trichlorophenol	333	240		ug/Kg		72	41 - 103

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	*70*		*42 - 100*
2-Fluorophenol (Surr)	*68*		*21 - 107*
Nitrobenzene-d5 (Surr)	*71*		*35 - 109*
Phenol-d5 (Surr)	*69*		*29 - 105*
Terphenyl-d14 (Surr)	*71*		*36 - 113*
2,4,6-Tribromophenol (Surr)	*70*		*20 - 134*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 180-219927/1-A
Matrix: Solid
Analysis Batch: 220002

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 219927

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.017	0.0088	mg/Kg		08/14/17 03:48	08/14/17 22:04	1
PCB-1221	ND		0.017	0.0086	mg/Kg		08/14/17 03:48	08/14/17 22:04	1
PCB-1232	ND		0.017	0.0066	mg/Kg		08/14/17 03:48	08/14/17 22:04	1
PCB-1242	ND		0.017	0.013	mg/Kg		08/14/17 03:48	08/14/17 22:04	1
PCB-1248	ND		0.017	0.0080	mg/Kg		08/14/17 03:48	08/14/17 22:04	1
PCB-1254	ND		0.017	0.0073	mg/Kg		08/14/17 03:48	08/14/17 22:04	1
PCB-1260	ND		0.017	0.011	mg/Kg		08/14/17 03:48	08/14/17 22:04	1
PCB-1262	ND		0.017	0.012	mg/Kg		08/14/17 03:48	08/14/17 22:04	1
PCB-1268	ND		0.017	0.0051	mg/Kg		08/14/17 03:48	08/14/17 22:04	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*87*		*23 - 150*	*08/14/17 03:48*	*08/14/17 22:04*	*1*
DCB Decachlorobiphenyl (Surr)	*90*		*23 - 150*	*08/14/17 03:48*	*08/14/17 22:04*	*1*
Tetrachloro-m-xylene (Surr)	*94*		*27 - 138*	*08/14/17 03:48*	*08/14/17 22:04*	*1*
Tetrachloro-m-xylene (Surr)	*86*		*27 - 138*	*08/14/17 03:48*	*08/14/17 22:04*	*1*

Lab Sample ID: LCS 180-219927/4-A
Matrix: Solid
Analysis Batch: 220002

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 219927

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			1.33	1.24		mg/Kg		93	52 - 126		
PCB-1260			1.33	1.17		mg/Kg		88	50 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*90*		*23 - 150*
DCB Decachlorobiphenyl (Surr)	*95*		*23 - 150*
Tetrachloro-m-xylene (Surr)	*88*		*27 - 138*
Tetrachloro-m-xylene (Surr)	*76*		*27 - 138*

Lab Sample ID: LCSD 180-219927/5-A
Matrix: Solid
Analysis Batch: 220002

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 219927

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016			1.33	1.26		mg/Kg		94	52 - 126	2	20
PCB-1260			1.33	1.21		mg/Kg		91	50 - 130	4	21

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*86*		*23 - 150*
DCB Decachlorobiphenyl (Surr)	*89*		*23 - 150*
Tetrachloro-m-xylene (Surr)	*91*		*27 - 138*
Tetrachloro-m-xylene (Surr)	*81*		*27 - 138*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 180-219443/1-A
Matrix: Solid
Analysis Batch: 219711

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 219443

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		1.0	0.44	mg/Kg		08/08/17 14:03	08/10/17 12:09	1
Barium	ND		20	5.4	mg/Kg		08/08/17 14:03	08/10/17 12:09	1
Beryllium	ND		0.40	0.10	mg/Kg		08/08/17 14:03	08/10/17 12:09	1
Cadmium	ND		0.50	0.11	mg/Kg		08/08/17 14:03	08/10/17 12:09	1
Chromium	ND		0.50	0.13	mg/Kg		08/08/17 14:03	08/10/17 12:09	1
Copper	ND		2.5	0.77	mg/Kg		08/08/17 14:03	08/10/17 12:09	1
Lead	ND		1.0	0.33	mg/Kg		08/08/17 14:03	08/10/17 12:09	1
Manganese	ND		1.5	0.41	mg/Kg		08/08/17 14:03	08/10/17 12:09	1
Nickel	ND		4.0	0.90	mg/Kg		08/08/17 14:03	08/10/17 12:09	1
Selenium	ND		1.0	0.40	mg/Kg		08/08/17 14:03	08/10/17 12:09	1
Silver	ND		0.50	0.17	mg/Kg		08/08/17 14:03	08/10/17 12:09	1
Zinc	ND		2.0	1.0	mg/Kg		08/08/17 14:03	08/10/17 12:09	1

Lab Sample ID: LCS 180-219443/2-A
Matrix: Solid
Analysis Batch: 219711

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 219443

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	50.0	51.5		mg/Kg		103	80 - 120
Barium	200	208		mg/Kg		104	80 - 120
Beryllium	5.00	5.25		mg/Kg		105	80 - 120
Cadmium	5.00	5.11		mg/Kg		102	80 - 120
Chromium	20.0	19.8		mg/Kg		99	80 - 120
Copper	25.0	25.3		mg/Kg		101	80 - 120
Lead	50.0	51.2		mg/Kg		102	80 - 120
Manganese	50.0	50.1		mg/Kg		100	80 - 120
Nickel	50.0	51.4		mg/Kg		103	80 - 120
Selenium	50.0	52.3		mg/Kg		105	80 - 120
Silver	5.00	5.03		mg/Kg		101	80 - 120
Zinc	50.0	49.8		mg/Kg		100	80 - 120

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 180-219480/1-A
Matrix: Solid
Analysis Batch: 219600

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 219480

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.033	0.0074	mg/Kg		08/08/17 17:30	08/09/17 11:20	1

Lab Sample ID: LCS 180-219480/2-A
Matrix: Solid
Analysis Batch: 219600

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 219480

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.417	0.456		mg/Kg		109	80 - 120

Method: 9014 - Cyanide

Lab Sample ID: MB 180-219313/4-A
Matrix: Solid
Analysis Batch: 219406

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 219313

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.50	0.15	mg/Kg		08/07/17 11:25	08/07/17 15:26	1

Lab Sample ID: HLCS 180-219313/2-A
Matrix: Solid
Analysis Batch: 219406

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 219313

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.250	0.244		mg/Kg		98	90 - 110

Lab Sample ID: LCS 180-219313/3-A
Matrix: Solid
Analysis Batch: 219406

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 219313

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	163	103		mg/Kg		63	38 - 162

Lab Sample ID: LLCS 180-219313/1-A
Matrix: Solid
Analysis Batch: 219406

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 219313

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.0500	0.0504		mg/Kg		101	90 - 110

GC/MS VOA

Prep Batch: 219095

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68875-12	WB2-3, S3, B 08.02.17	Total/NA	Solid	5035	
180-68875-14	DUP 24	Total/NA	Solid	5035	

Analysis Batch: 219096

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68875-12	WB2-3, S3, B 08.02.17	Total/NA	Solid	8260C	219095
180-68875-14	DUP 24	Total/NA	Solid	8260C	219095
MB 180-219096/9	Method Blank	Total/NA	Solid	8260C	
LCS 180-219096/4	Lab Control Sample	Total/NA	Solid	8260C	

Analysis Batch: 219231

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68875-15	TRIP BLANK #1	Total/NA	Water	8260C	
MB 180-219231/5	Method Blank	Total/NA	Water	8260C	
LCS 180-219231/3	Lab Control Sample	Total/NA	Water	8260C	

Analysis Batch: 219248

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68875-9	WB2-3, S3, A 08.02.17	Total/NA	Solid	8260C	219255
MB 180-219248/8	Method Blank	Total/NA	Solid	8260C	
LCS 180-219248/3	Lab Control Sample	Total/NA	Solid	8260C	

Prep Batch: 219255

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68875-9	WB2-3, S3, A 08.02.17	Total/NA	Solid	5035	

GC/MS Semi VOA

Prep Batch: 219916

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68875-13	WB2-3, S3, C 08.02.17	Total/NA	Solid	3541	
MB 180-219916/1-A	Method Blank	Total/NA	Solid	3541	
LCS 180-219916/2-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 219952

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68875-13	WB2-3, S3, C 08.02.17	Total/NA	Solid	8270D LL	219916
MB 180-219916/1-A	Method Blank	Total/NA	Solid	8270D LL	219916
LCS 180-219916/2-A	Lab Control Sample	Total/NA	Solid	8270D LL	219916

GC Semi VOA

Prep Batch: 219927

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68875-13	WB2-3, S3, C 08.02.17	Total/NA	Solid	3541	
MB 180-219927/1-A	Method Blank	Total/NA	Solid	3541	
LCS 180-219927/4-A	Lab Control Sample	Total/NA	Solid	3541	
LCSD 180-219927/5-A	Lab Control Sample Dup	Total/NA	Solid	3541	

GC Semi VOA (Continued)

Cleanup Batch: 219988

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68875-13	WB2-3, S3, C 08.02.17	Total/NA	Solid	3665A	219927

Cleanup Batch: 219989

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68875-13	WB2-3, S3, C 08.02.17	Total/NA	Solid	3660B	219988

Analysis Batch: 220002

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68875-13	WB2-3, S3, C 08.02.17	Total/NA	Solid	8082A	219989
MB 180-219927/1-A	Method Blank	Total/NA	Solid	8082A	219927
LCS 180-219927/4-A	Lab Control Sample	Total/NA	Solid	8082A	219927
LCSD 180-219927/5-A	Lab Control Sample Dup	Total/NA	Solid	8082A	219927

Metals

Prep Batch: 219443

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68875-13	WB2-3, S3, C 08.02.17	Total/NA	Solid	3050B	
MB 180-219443/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 180-219443/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Prep Batch: 219480

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68875-13	WB2-3, S3, C 08.02.17	Total/NA	Solid	7471B	
MB 180-219480/1-A	Method Blank	Total/NA	Solid	7471B	
LCS 180-219480/2-A	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 219600

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68875-13	WB2-3, S3, C 08.02.17	Total/NA	Solid	7471B	219480
MB 180-219480/1-A	Method Blank	Total/NA	Solid	7471B	219480
LCS 180-219480/2-A	Lab Control Sample	Total/NA	Solid	7471B	219480

Analysis Batch: 219711

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68875-13	WB2-3, S3, C 08.02.17	Total/NA	Solid	6010C	219443
MB 180-219443/1-A	Method Blank	Total/NA	Solid	6010C	219443
LCS 180-219443/2-A	Lab Control Sample	Total/NA	Solid	6010C	219443

General Chemistry

Analysis Batch: 219137

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68875-9	WB2-3, S3, A 08.02.17	Total/NA	Solid	2540G	
180-68875-12	WB2-3, S3, B 08.02.17	Total/NA	Solid	2540G	
180-68875-13	WB2-3, S3, C 08.02.17	Total/NA	Solid	2540G	
180-68875-14	DUP 24	Total/NA	Solid	2540G	

General Chemistry (Continued)

Prep Batch: 219313

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68875-13	WB2-3, S3, C 08.02.17	Total/NA	Solid	9010C	
MB 180-219313/4-A	Method Blank	Total/NA	Solid	9010C	
HLCS 180-219313/2-A	Lab Control Sample	Total/NA	Solid	9010C	
LCS 180-219313/3-A	Lab Control Sample	Total/NA	Solid	9010C	
LLCS 180-219313/1-A	Lab Control Sample	Total/NA	Solid	9010C	

Analysis Batch: 219406

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68875-13	WB2-3, S3, C 08.02.17	Total/NA	Solid	9014	219313
MB 180-219313/4-A	Method Blank	Total/NA	Solid	9014	219313
HLCS 180-219313/2-A	Lab Control Sample	Total/NA	Solid	9014	219313
LCS 180-219313/3-A	Lab Control Sample	Total/NA	Solid	9014	219313
LLCS 180-219313/1-A	Lab Control Sample	Total/NA	Solid	9014	219313

TestAmerica Pittsburgh
301 Alpha Drive RIDC Park
Pittsburgh, PA 15238
Phone (412) 963-7058 Fax (412) 963-2468

Chain of Custody Record

180-68875 Chain of Custody

TestAmerica
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Client Information	Sampler: Ellen Buelow	Lab PM: Dunlap, David A	COC No: 180-38494-8381.1
Client Contact: Ashwin Ranna; Aron Krasnopoler	Phone: 412-552-4758	E-Mail: david.dunlap@testamericainc.com	Page: Page 1 of 2
Company: Geosyntec Consultants, Inc.			Job #:
Address: Penn Center West One, Suite 402 1 Penn Center West Drive	Due Date Requested:		
City: Pittsburgh	TAT Requested (days): 1 day TAT		
State, Zip: PA, 15276			
Phone:	PO #: MN0832B		
Email: aranna@geosyntec.com; Akrasnopoler@geosyntec.com	WO #:		
Project Name: Former Sperry Remington Site - North IRM	Project #: 18013464		
Site:	SSOW#:		

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No) FIL ALL	Perform MS/MSD (Yes or No) FIL ALL	8260C - VOA-Select List	6010C, 7471B, 9014 - Select ICP Metals, Mercury, Cyanide	8082A, 8270D, PCBs, Select BNA	8260C - VOA-Select List (Trip Blanks only)	TCLP RCRA METALS	TCLP SEMI VOA	TCLP VOC	PCB 8082A	Total Number of containers	Special Instructions/Note:
Preservation Code:							N	N	N	A						
WB,SS,A 08.02.17	08.02.17	10:35	G	Solid	N	N							X		2	
WB,SS,C 08.02.17	08.02.17	10:40	C	Solid	N	N					X	X		X	3	
WB,S6,A 08.02.17	08.02.17	10:55	G	Solid	N	N							X		2	
WB, SG,C 08.02.17	08.02.17	11:00	C	Solid	N	N					X	X		X	3	
WB1-2,S1,A 08.02.17	08.02.17	14:10	G	Solid	N	N							X		2	
WB1-2,S1,C 08.02.17	08.02.17	14:20	C	Solid	N	N					X	X		X	3	
WB1-2,S2,A 08.02.17	08.02.17	15:05	G	Solid	N	N							X		2	
WB1-2,S2,C 08.02.17	08.02.17	15:10	C	Solid	N	N					X	X		X	3	
WB2-3,S3,A 08.02.17	08.02.17	16:10	G	Solid	N	N	X								4	TRIP BLANK #1
DUP 22	09.02.17	—	C	Solid							X	X		X	3	
DUP 23	09.02.17	—	G	Solid									X		2	

RUSH

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Ellen Buelow	08.02.17 18:30	Geosyntec		8/3/17 850	TAP
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
phone 412.963.7058 fax 412.963.2468

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☑ Other:

Client Contact	Project Manager: Aron Krasnopoler	Site Contact: Ashwin Ranna/Ellen Buelow	Date:	COC No:
Geosyntec Consultants	Tel/Fax: 401-381-4333	Lab Contact: Dave Dunlap	Carrier: FedEx	2 of 2 COCs
10211 Wincopin Circle, 4th Floor	**Analysis Turnaround Time**			Sampler:
Columbia, MD 21044	☐ CALENDAR DAYS ☑ WORKING DAYS			**For Lab Use Only:**
410-381-4333 Phone	TAT if different from Below _____			Walk-in Client:
410-381-4499 FAX	☐ 2 weeks			Lab Sampling:
Project Name: Former Sperry Remington Site - North	☐ 1 week			
Site: Elmira	☐ 2 days			Job / SDG No.:
P O # MN0832B	☒ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	8260C - VOA- Select List	6010C, 7471B, 9014	8082A, 8270D_LL	8260C_LL-VOA-Select List	Sample Specific Notes:
WB 2-3, S3, B 08.02.17	08.02.17	16:15	G	S	4	N	N	X				TRIP BLANK #1
WB 2-3, S3, C 08.02.17	08.02.17	16:20	C	S	2	N	N		X	X		TRIP BLANK #1
DUP 24	08.02.17	—	G	S	4	N	N	X				TRIP BLANK #1

RUSH

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

1

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☒ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd: _____ Corr'd: _____ Therm ID No.: _____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Ellen Buelow	Geosyntec	08.02.17 18:30		FAP	8/3/17 850
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Form No. CA-C-WI-002, Rev. 4.3, dated 12/05/2013

8/15/2017

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 180-68875-2

Login Number: 68875
List Number: 1
Creator: Say, Thomas C

List Source: TestAmerica Pittsburgh

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

TestAmerica Job ID: 180-68986-1
Client Project/Site: Former Sperry Remington Site - North IRM

For:
Geosyntec Consultants, Inc.
10211 Wincopin Circle
4'th Floor
Columbia, Maryland 21044

Attn: Mr. Aron Krasnopoler

Authorized for release by:
8/16/2017 3:36:28 PM

David Dunlap, Senior Project Manager
(412)963-2432
david.dunlap@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Job ID: 180-68986-1

Laboratory: TestAmerica Pittsburgh

Narrative

Job Narrative
180-68986-1

Receipt
The samples were received on 8/5/2017 9:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 1.0º C and 4.4º C.

The following volatile samples were received with small air bubbles approximately 6 mm diameter in each of the vials: TRIP BLANK #1 (180-68986-10) and TRIP BLANK #2 (180-68986-11).

GC/MS VOA
Method(s) 8260C: The continuing calibration verification (CCV) analyzed in 180-219248 was above criteria for the following analyte: 1,1,1-trichloroethane. As the CCV was high and this analyte was not detected in the associated samples, the results were reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method(s) 8270D: The continuing calibration verification (CCV) analyzed in 180-219660 was above criteria for the following analyte: pyridine. As the CCV was high and this analyte was not detected in the associated samples, the results were reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
Method(s) 8082A: The following samples was diluted to bring the concentration of target analytes within the calibration range: W5-b, S5, C 08.04.17 (180-68986-9). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Definitions/Glossary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68986-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc. TestAmerica Job ID: 180-68986-1
Project/Site: Former Sperry Remington Site - North IRM

Laboratory: TestAmerica Pittsburgh

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	11182	03-31-18

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
2540G		Solid	Percent Moisture
2540G		Solid	Percent Solids
8270D	3520C	Water	1,4-Dioxane
8270D LL	3541	Solid	1,4-Dioxane

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68986-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-68986-1	EQ BLK #1 08.03.17	Water	08/03/17 13:40	08/05/17 09:00
180-68986-2	EQ BLK #2 08.04.17	Water	08/04/17 07:00	08/05/17 09:00
180-68986-7	W5-b, S5, A 08.04.17	Solid	08/04/17 10:55	08/05/17 09:00
180-68986-8	W5-b, S5, B 08.04.17	Solid	08/04/17 11:05	08/05/17 09:00
180-68986-9	W5-b, S5, C 08.04.17	Solid	08/04/17 11:10	08/05/17 09:00
180-68986-10	TRIP BLANK #1	Water	08/04/17 00:00	08/05/17 09:00
180-68986-11	TRIP BLANK #2	Water	08/04/17 00:00	08/05/17 09:00

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68986-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds (GC/MS)	SW846	TAL PIT
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL PIT
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL PIT
8270D LL	Semivolatile Organic Compounds by GC/MS - Low Level	SW846	TAL PIT
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL PIT
6010C	Metals (ICP)	SW846	TAL PIT
7470A	Mercury (CVAA)	SW846	TAL PIT
7471B	Mercury (CVAA)	SW846	TAL PIT
2540G	SM 2540G	SM22	TAL PIT
9014	Cyanide	SW846	TAL PIT

Protocol References:

SM22 = SM22

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68986-1

Client Sample ID: EQ BLK #1 08.03.17

Date Collected: 08/03/17 13:40
Date Received: 08/05/17 09:00

Lab Sample ID: 180-68986-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	219341	08/08/17 05:56	FBB	TAL PIT
	Instrument ID: CHHP5									
Total/NA	Prep	3520C			240 mL	2.5 mL	219432	08/08/17 11:53	BJT	TAL PIT
Total/NA	Analysis	8270D		1	1 mL	1 mL	219660	08/10/17 18:18	VVP	TAL PIT
	Instrument ID: CH732									
Total/NA	Prep	3510C			240 mL	10.0 mL	219453	08/08/17 13:10	CBY	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	219502	08/09/17 05:31	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	219504	08/09/17 05:32	JMO	TAL PIT
Total/NA	Analysis	8082A		1			219515	08/09/17 11:53	JMO	TAL PIT
	Instrument ID: CHGC8									
Total Recoverable	Prep	3005A			50 mL	50 mL	219379	08/08/17 08:08	SES	TAL PIT
Total Recoverable	Analysis	6010C		1			219637	08/09/17 13:29	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7470A			50 mL	50 mL	219569	08/09/17 12:32	RJR	TAL PIT
Total/NA	Analysis	7470A		1			219697	08/10/17 09:33	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			50 mL	50 mL	219686	08/10/17 12:11	JAS	TAL PIT
Total/NA	Analysis	9014		1			219797	08/10/17 16:54	JAS	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: EQ BLK #2 08.04.17

Date Collected: 08/04/17 07:00
Date Received: 08/05/17 09:00

Lab Sample ID: 180-68986-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	219341	08/08/17 06:20	FBB	TAL PIT
	Instrument ID: CHHP5									
Total/NA	Prep	3520C			260 mL	2.5 mL	219432	08/08/17 11:53	BJT	TAL PIT
Total/NA	Analysis	8270D		1	1 mL	1 mL	219660	08/10/17 18:45	VVP	TAL PIT
	Instrument ID: CH732									
Total/NA	Prep	3510C			240 mL	10.0 mL	219453	08/08/17 13:10	CBY	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	219502	08/09/17 05:31	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	219504	08/09/17 05:32	JMO	TAL PIT
Total/NA	Analysis	8082A		1			219515	08/09/17 12:13	JMO	TAL PIT
	Instrument ID: CHGC8									
Total Recoverable	Prep	3005A			50 mL	50 mL	219379	08/08/17 08:08	SES	TAL PIT
Total Recoverable	Analysis	6010C		1			219637	08/09/17 13:34	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7470A			50 mL	50 mL	219569	08/09/17 12:32	RJR	TAL PIT
Total/NA	Analysis	7470A		1			219697	08/10/17 09:35	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			50 mL	50 mL	219686	08/10/17 12:11	JAS	TAL PIT
Total/NA	Analysis	9014		1			219797	08/10/17 16:55	JAS	TAL PIT
	Instrument ID: SEAL2									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68986-1

Client Sample ID: W5-b, S5, A 08.04.17
Date Collected: 08/04/17 10:55
Date Received: 08/05/17 09:00

Lab Sample ID: 180-68986-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			219454	08/08/17 14:36	MTW	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W5-b, S5, A 08.04.17
Date Collected: 08/04/17 10:55
Date Received: 08/05/17 09:00

Lab Sample ID: 180-68986-7
Matrix: Solid
Percent Solids: 87.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.8739 g	5 mL	219255	08/07/17 05:30	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	219248	08/07/17 09:02	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W5-b, S5, B 08.04.17
Date Collected: 08/04/17 11:05
Date Received: 08/05/17 09:00

Lab Sample ID: 180-68986-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			219454	08/08/17 14:36	MTW	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W5-b, S5, B 08.04.17
Date Collected: 08/04/17 11:05
Date Received: 08/05/17 09:00

Lab Sample ID: 180-68986-8
Matrix: Solid
Percent Solids: 89.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.5983 g	5 mL	219255	08/07/17 05:30	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	219248	08/07/17 10:54	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W5-b, S5, C 08.04.17
Date Collected: 08/04/17 11:10
Date Received: 08/05/17 09:00

Lab Sample ID: 180-68986-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			219454	08/08/17 14:36	MTW	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W5-b, S5, C 08.04.17
Date Collected: 08/04/17 11:10
Date Received: 08/05/17 09:00

Lab Sample ID: 180-68986-9
Matrix: Solid
Percent Solids: 90.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	0.5 mL	220050	08/15/17 03:27	BAP	TAL PIT

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68986-1

Client Sample ID: W5-b, S5, C 08.04.17

Date Collected: 08/04/17 11:10
Date Received: 08/05/17 09:00

Lab Sample ID: 180-68986-9

Matrix: Solid
Percent Solids: 90.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8270D LL		1	1 mL	1 mL	220091	08/15/17 19:46	VVP	TAL PIT
	Instrument ID: CH731									
Total/NA	Prep	3541			15.0 g	20.0 mL	220051	08/15/17 03:35	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	220101	08/15/17 09:23	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	220102	08/15/17 09:24	JMO	TAL PIT
Total/NA	Analysis	8082A		5			220173	08/16/17 11:19	JMO	TAL PIT
	Instrument ID: CHGC10									
Total/NA	Prep	3050B			0.99 g	100 mL	219443	08/08/17 14:03	SES	TAL PIT
Total/NA	Analysis	6010C		1			219711	08/10/17 12:24	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.78 g	100 mL	219480	08/08/17 17:30	RJR	TAL PIT
Total/NA	Analysis	7471B		1			219600	08/09/17 11:54	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.12 g	50 mL	219684	08/10/17 12:11	JAS	TAL PIT
Total/NA	Analysis	9014		1			219797	08/10/17 15:37	JAS	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: TRIP BLANK #1

Date Collected: 08/04/17 00:00
Date Received: 08/05/17 09:00

Lab Sample ID: 180-68986-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	219341	08/08/17 06:44	FBB	TAL PIT
	Instrument ID: CHHP5									

Client Sample ID: TRIP BLANK #2

Date Collected: 08/04/17 00:00
Date Received: 08/05/17 09:00

Lab Sample ID: 180-68986-11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	219341	08/08/17 07:07	FBB	TAL PIT
	Instrument ID: CHHP5									

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68986-1

Analyst References:

Lab: TAL PIT

Batch Type: Cleanup

JMO = John Oravec

Batch Type: Prep

BAP = Brian Pino

BJT = Bill Trout

CBY = Charles Yushinski

JAS = Joshua Schmidt

KLG = Kathy Gordon

RJR = Ron Rosenbaum

SES = Samantha Strauser

Batch Type: Analysis

FBB = Frank Bungard

JAS = Joshua Schmidt

JMO = John Oravec

KLG = Kathy Gordon

MTW = Michael Wesoloski

RJG = Rob Good

RJR = Ron Rosenbaum

VVP = Vincent Piccolino

Client Sample ID: EQ BLK #1 08.03.17

Date Collected: 08/03/17 13:40
Date Received: 08/05/17 09:00

Lab Sample ID: 180-68986-1
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		5.0	3.1	ug/L			08/08/17 05:56	1
Benzene	ND		1.0	0.18	ug/L			08/08/17 05:56	1
2-Butanone (MEK)	ND		5.0	2.6	ug/L			08/08/17 05:56	1
Carbon tetrachloride	ND		1.0	0.56	ug/L			08/08/17 05:56	1
Chlorobenzene	ND		1.0	0.15	ug/L			08/08/17 05:56	1
Chloroform	ND		1.0	0.27	ug/L			08/08/17 05:56	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			08/08/17 05:56	1
1,2-Dichlorobenzene	ND		1.0	0.23	ug/L			08/08/17 05:56	1
1,3-Dichlorobenzene	ND		1.0	0.21	ug/L			08/08/17 05:56	1
1,4-Dichlorobenzene	ND		1.0	0.24	ug/L			08/08/17 05:56	1
1,1-Dichloroethane	ND		1.0	0.34	ug/L			08/08/17 05:56	1
1,2-Dichloroethane	ND		1.0	0.24	ug/L			08/08/17 05:56	1
1,1-Dichloroethene	ND		1.0	0.32	ug/L			08/08/17 05:56	1
Ethylbenzene	ND		1.0	0.25	ug/L			08/08/17 05:56	1
Methylene Chloride	ND		1.0	0.94	ug/L			08/08/17 05:56	1
Methyl tert-butyl ether	ND		1.0	0.20	ug/L			08/08/17 05:56	1
n-Butylbenzene	ND		1.0	0.22	ug/L			08/08/17 05:56	1
N-Propylbenzene	ND		1.0	0.20	ug/L			08/08/17 05:56	1
sec-Butylbenzene	ND		1.0	0.22	ug/L			08/08/17 05:56	1
tert-Butylbenzene	ND		1.0	0.17	ug/L			08/08/17 05:56	1
Tetrachloroethene	ND		1.0	0.24	ug/L			08/08/17 05:56	1
Toluene	ND		1.0	0.16	ug/L			08/08/17 05:56	1
trans-1,2-Dichloroethene	ND		1.0	0.20	ug/L			08/08/17 05:56	1
1,1,1-Trichloroethane	ND		1.0	0.27	ug/L			08/08/17 05:56	1
Trichloroethene	ND		1.0	0.20	ug/L			08/08/17 05:56	1
1,2,4-Trimethylbenzene	ND		1.0	0.18	ug/L			08/08/17 05:56	1
1,3,5-Trimethylbenzene	ND		1.0	0.17	ug/L			08/08/17 05:56	1
Vinyl chloride	ND		1.0	0.17	ug/L			08/08/17 05:56	1
Xylenes, Total	ND		2.0	0.27	ug/L			08/08/17 05:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*72 - 120*		*08/08/17 05:56*	*1*
Dibromofluoromethane (Surr)	*96*		*77 - 127*		*08/08/17 05:56*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*72 - 134*		*08/08/17 05:56*	*1*
Toluene-d8 (Surr)	*84*		*80 - 120*		*08/08/17 05:56*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		2.0	0.75	ug/L		08/08/17 11:53	08/10/17 18:18	1
Acenaphthylene	ND		2.0	0.63	ug/L		08/08/17 11:53	08/10/17 18:18	1
Anthracene	ND		2.0	0.58	ug/L		08/08/17 11:53	08/10/17 18:18	1
Benzo[a]anthracene	ND		2.0	1.2	ug/L		08/08/17 11:53	08/10/17 18:18	1
Benzo[a]pyrene	ND		2.0	0.93	ug/L		08/08/17 11:53	08/10/17 18:18	1
Benzo[b]fluoranthene	ND		2.0	0.69	ug/L		08/08/17 11:53	08/10/17 18:18	1
Benzo[g,h,i]perylene	ND		2.0	0.85	ug/L		08/08/17 11:53	08/10/17 18:18	1
Benzo[k]fluoranthene	ND		2.0	1.9	ug/L		08/08/17 11:53	08/10/17 18:18	1
Chrysene	ND		2.0	0.87	ug/L		08/08/17 11:53	08/10/17 18:18	1
Dibenz(a,h)anthracene	ND		2.0	0.81	ug/L		08/08/17 11:53	08/10/17 18:18	1
Dibenzofuran	ND		10	1.2	ug/L		08/08/17 11:53	08/10/17 18:18	1
2,4-Dinitrotoluene	ND		10	1.4	ug/L		08/08/17 11:53	08/10/17 18:18	1

Client Sample ID: EQ BLK #1 08.03.17
Date Collected: 08/03/17 13:40
Date Received: 08/05/17 09:00

Lab Sample ID: 180-68986-1
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		21	3.9	ug/L		08/08/17 11:53	08/10/17 18:18	1
Fluoranthene	ND		2.0	1.3	ug/L		08/08/17 11:53	08/10/17 18:18	1
Fluorene	ND		2.0	1.2	ug/L		08/08/17 11:53	08/10/17 18:18	1
Hexachlorobenzene	ND		2.0	1.1	ug/L		08/08/17 11:53	08/10/17 18:18	1
Hexachlorobutadiene	ND		2.0	0.59	ug/L		08/08/17 11:53	08/10/17 18:18	1
Hexachloroethane	ND		10	0.74	ug/L		08/08/17 11:53	08/10/17 18:18	1
Indeno[1,2,3-cd]pyrene	ND		2.0	0.80	ug/L		08/08/17 11:53	08/10/17 18:18	1
2-Methylphenol	ND		10	2.4	ug/L		08/08/17 11:53	08/10/17 18:18	1
Methylphenol, 3 & 4	ND		10	2.5	ug/L		08/08/17 11:53	08/10/17 18:18	1
Naphthalene	ND		2.0	1.8	ug/L		08/08/17 11:53	08/10/17 18:18	1
Nitrobenzene	ND		21	1.4	ug/L		08/08/17 11:53	08/10/17 18:18	1
Pentachlorophenol	ND		52	2.8	ug/L		08/08/17 11:53	08/10/17 18:18	1
Phenanthrene	ND		2.0	1.3	ug/L		08/08/17 11:53	08/10/17 18:18	1
Phenol	ND		10	3.1	ug/L		08/08/17 11:53	08/10/17 18:18	1
Pyrene	ND		2.0	0.95	ug/L		08/08/17 11:53	08/10/17 18:18	1
Pyridine	ND		10	4.5	ug/L		08/08/17 11:53	08/10/17 18:18	1
2,4,5-Trichlorophenol	ND		10	0.63	ug/L		08/08/17 11:53	08/10/17 18:18	1
2,4,6-Trichlorophenol	ND		10	0.77	ug/L		08/08/17 11:53	08/10/17 18:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*60*		*35 - 100*	*08/08/17 11:53*	*08/10/17 18:18*	*1*
2-Fluorophenol (Surr)	*57*		*22 - 100*	*08/08/17 11:53*	*08/10/17 18:18*	*1*
Nitrobenzene-d5 (Surr)	*56*		*29 - 100*	*08/08/17 11:53*	*08/10/17 18:18*	*1*
Phenol-d5 (Surr)	*54*		*25 - 100*	*08/08/17 11:53*	*08/10/17 18:18*	*1*
Terphenyl-d14 (Surr)	*67*		*20 - 116*	*08/08/17 11:53*	*08/10/17 18:18*	*1*
2,4,6-Tribromophenol (Surr)	*74*		*28 - 103*	*08/08/17 11:53*	*08/10/17 18:18*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.42	0.14	ug/L		08/08/17 13:10	08/09/17 11:53	1
PCB-1221	ND		0.42	0.38	ug/L		08/08/17 13:10	08/09/17 11:53	1
PCB-1232	ND		0.42	0.14	ug/L		08/08/17 13:10	08/09/17 11:53	1
PCB-1242	ND		0.42	0.39	ug/L		08/08/17 13:10	08/09/17 11:53	1
PCB-1248	ND		0.42	0.29	ug/L		08/08/17 13:10	08/09/17 11:53	1
PCB-1254	ND		0.42	0.21	ug/L		08/08/17 13:10	08/09/17 11:53	1
PCB-1260	ND		0.42	0.24	ug/L		08/08/17 13:10	08/09/17 11:53	1
PCB-1262	ND		0.42	0.28	ug/L		08/08/17 13:10	08/09/17 11:53	1
PCB-1268	ND		0.42	0.28	ug/L		08/08/17 13:10	08/09/17 11:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*87*		*52 - 131*	*08/08/17 13:10*	*08/09/17 11:53*	*1*
DCB Decachlorobiphenyl (Surr)	*92*		*52 - 131*	*08/08/17 13:10*	*08/09/17 11:53*	*1*
Tetrachloro-m-xylene (Surr)	*99*		*50 - 124*	*08/08/17 13:10*	*08/09/17 11:53*	*1*
Tetrachloro-m-xylene (Surr)	*89*		*50 - 124*	*08/08/17 13:10*	*08/09/17 11:53*	*1*

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		10	4.1	ug/L		08/08/17 08:08	08/09/17 13:29	1
Barium	ND		200	1.1	ug/L		08/08/17 08:08	08/09/17 13:29	1
Beryllium	ND		4.0	0.33	ug/L		08/08/17 08:08	08/09/17 13:29	1

Client Sample ID: EQ BLK #1 08.03.17

Lab Sample ID: 180-68986-1
Date Collected: 08/03/17 13:40
Matrix: Water
Date Received: 08/05/17 09:00

Method: 6010C - Metals (ICP) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		5.0	0.16	ug/L		08/08/17 08:08	08/09/17 13:29	1
Chromium	ND		5.0	0.78	ug/L		08/08/17 08:08	08/09/17 13:29	1
Copper	ND		25	2.2	ug/L		08/08/17 08:08	08/09/17 13:29	1
Lead	ND		10	2.9	ug/L		08/08/17 08:08	08/09/17 13:29	1
Manganese	ND		15	2.7	ug/L		08/08/17 08:08	08/09/17 13:29	1
Nickel	ND		40	1.5	ug/L		08/08/17 08:08	08/09/17 13:29	1
Selenium	ND		10	3.6	ug/L		08/08/17 08:08	08/09/17 13:29	1
Silver	ND		5.0	0.85	ug/L		08/08/17 08:08	08/09/17 13:29	1
Zinc	ND		20	5.8	ug/L		08/08/17 08:08	08/09/17 13:29	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.065	ug/L		08/09/17 12:32	08/10/17 09:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		10	3.3	ug/L		08/10/17 12:11	08/10/17 16:54	1

Client Sample ID: EQ BLK #2 08.04.17

Lab Sample ID: 180-68986-2
Date Collected: 08/04/17 07:00
Matrix: Water
Date Received: 08/05/17 09:00

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		5.0	3.1	ug/L			08/08/17 06:20	1
Benzene	ND		1.0	0.18	ug/L			08/08/17 06:20	1
2-Butanone (MEK)	ND		5.0	2.6	ug/L			08/08/17 06:20	1
Carbon tetrachloride	ND		1.0	0.56	ug/L			08/08/17 06:20	1
Chlorobenzene	ND		1.0	0.15	ug/L			08/08/17 06:20	1
Chloroform	ND		1.0	0.27	ug/L			08/08/17 06:20	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			08/08/17 06:20	1
1,2-Dichlorobenzene	ND		1.0	0.23	ug/L			08/08/17 06:20	1
1,3-Dichlorobenzene	ND		1.0	0.21	ug/L			08/08/17 06:20	1
1,4-Dichlorobenzene	ND		1.0	0.24	ug/L			08/08/17 06:20	1
1,1-Dichloroethane	ND		1.0	0.34	ug/L			08/08/17 06:20	1
1,2-Dichloroethane	ND		1.0	0.24	ug/L			08/08/17 06:20	1
1,1-Dichloroethene	ND		1.0	0.32	ug/L			08/08/17 06:20	1
Ethylbenzene	ND		1.0	0.25	ug/L			08/08/17 06:20	1
Methylene Chloride	ND		1.0	0.94	ug/L			08/08/17 06:20	1
Methyl tert-butyl ether	ND		1.0	0.20	ug/L			08/08/17 06:20	1
n-Butylbenzene	ND		1.0	0.22	ug/L			08/08/17 06:20	1
N-Propylbenzene	ND		1.0	0.20	ug/L			08/08/17 06:20	1
sec-Butylbenzene	ND		1.0	0.22	ug/L			08/08/17 06:20	1
tert-Butylbenzene	ND		1.0	0.17	ug/L			08/08/17 06:20	1
Tetrachloroethene	ND		1.0	0.24	ug/L			08/08/17 06:20	1
Toluene	ND		1.0	0.16	ug/L			08/08/17 06:20	1
trans-1,2-Dichloroethene	ND		1.0	0.20	ug/L			08/08/17 06:20	1
1,1,1-Trichloroethane	ND		1.0	0.27	ug/L			08/08/17 06:20	1
Trichloroethene	ND		1.0	0.20	ug/L			08/08/17 06:20	1
1,2,4-Trimethylbenzene	ND		1.0	0.18	ug/L			08/08/17 06:20	1

Client Sample ID: EQ BLK #2 08.04.17

Date Collected: 08/04/17 07:00
Date Received: 08/05/17 09:00

Lab Sample ID: 180-68986-2
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	ND		1.0	0.17	ug/L			08/08/17 06:20	1
Vinyl chloride	ND		1.0	0.17	ug/L			08/08/17 06:20	1
Xylenes, Total	ND		2.0	0.27	ug/L			08/08/17 06:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*72 - 120*		*08/08/17 06:20*	*1*
Dibromofluoromethane (Surr)	*96*		*77 - 127*		*08/08/17 06:20*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*72 - 134*		*08/08/17 06:20*	*1*
Toluene-d8 (Surr)	*90*		*80 - 120*		*08/08/17 06:20*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		1.8	0.70	ug/L		08/08/17 11:53	08/10/17 18:45	1
Acenaphthylene	ND		1.8	0.58	ug/L		08/08/17 11:53	08/10/17 18:45	1
Anthracene	ND		1.8	0.54	ug/L		08/08/17 11:53	08/10/17 18:45	1
Benzo[a]anthracene	ND		1.8	1.1	ug/L		08/08/17 11:53	08/10/17 18:45	1
Benzo[a]pyrene	ND		1.8	0.85	ug/L		08/08/17 11:53	08/10/17 18:45	1
Benzo[b]fluoranthene	ND		1.8	0.63	ug/L		08/08/17 11:53	08/10/17 18:45	1
Benzo[g,h,i]perylene	ND		1.8	0.78	ug/L		08/08/17 11:53	08/10/17 18:45	1
Benzo[k]fluoranthene	ND		1.8	1.8	ug/L		08/08/17 11:53	08/10/17 18:45	1
Chrysene	ND		1.8	0.81	ug/L		08/08/17 11:53	08/10/17 18:45	1
Dibenz(a,h)anthracene	ND		1.8	0.75	ug/L		08/08/17 11:53	08/10/17 18:45	1
Dibenzofuran	ND		9.6	1.1	ug/L		08/08/17 11:53	08/10/17 18:45	1
2,4-Dinitrotoluene	ND		9.6	1.3	ug/L		08/08/17 11:53	08/10/17 18:45	1
1,4-Dioxane	ND		19	3.6	ug/L		08/08/17 11:53	08/10/17 18:45	1
Fluoranthene	ND		1.8	1.2	ug/L		08/08/17 11:53	08/10/17 18:45	1
Fluorene	ND		1.8	1.1	ug/L		08/08/17 11:53	08/10/17 18:45	1
Hexachlorobenzene	ND		1.8	1.0	ug/L		08/08/17 11:53	08/10/17 18:45	1
Hexachlorobutadiene	ND		1.8	0.55	ug/L		08/08/17 11:53	08/10/17 18:45	1
Hexachloroethane	ND		9.6	0.68	ug/L		08/08/17 11:53	08/10/17 18:45	1
Indeno[1,2,3-cd]pyrene	ND		1.8	0.74	ug/L		08/08/17 11:53	08/10/17 18:45	1
2-Methylphenol	ND		9.6	2.3	ug/L		08/08/17 11:53	08/10/17 18:45	1
Methylphenol, 3 & 4	ND		9.6	2.3	ug/L		08/08/17 11:53	08/10/17 18:45	1
Naphthalene	ND		1.8	1.7	ug/L		08/08/17 11:53	08/10/17 18:45	1
Nitrobenzene	ND		19	1.3	ug/L		08/08/17 11:53	08/10/17 18:45	1
Pentachlorophenol	ND		48	2.6	ug/L		08/08/17 11:53	08/10/17 18:45	1
Phenanthrene	ND		1.8	1.2	ug/L		08/08/17 11:53	08/10/17 18:45	1
Phenol	ND		9.6	2.9	ug/L		08/08/17 11:53	08/10/17 18:45	1
Pyrene	ND		1.8	0.88	ug/L		08/08/17 11:53	08/10/17 18:45	1
Pyridine	ND		9.6	4.2	ug/L		08/08/17 11:53	08/10/17 18:45	1
2,4,5-Trichlorophenol	ND		9.6	0.58	ug/L		08/08/17 11:53	08/10/17 18:45	1
2,4,6-Trichlorophenol	ND		9.6	0.71	ug/L		08/08/17 11:53	08/10/17 18:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*61*		*35 - 100*	*08/08/17 11:53*	*08/10/17 18:45*	*1*
2-Fluorophenol (Surr)	*56*		*22 - 100*	*08/08/17 11:53*	*08/10/17 18:45*	*1*
Nitrobenzene-d5 (Surr)	*57*		*29 - 100*	*08/08/17 11:53*	*08/10/17 18:45*	*1*
Phenol-d5 (Surr)	*53*		*25 - 100*	*08/08/17 11:53*	*08/10/17 18:45*	*1*
Terphenyl-d14 (Surr)	*65*		*20 - 116*	*08/08/17 11:53*	*08/10/17 18:45*	*1*
2,4,6-Tribromophenol (Surr)	*76*		*28 - 103*	*08/08/17 11:53*	*08/10/17 18:45*	*1*

Client Sample ID: EQ BLK #2 08.04.17

Lab Sample ID: 180-68986-2

Date Collected: 08/04/17 07:00

Matrix: Water

Date Received: 08/05/17 09:00

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.42	0.14	ug/L		08/08/17 13:10	08/09/17 12:13	1
PCB-1221	ND		0.42	0.38	ug/L		08/08/17 13:10	08/09/17 12:13	1
PCB-1232	ND		0.42	0.14	ug/L		08/08/17 13:10	08/09/17 12:13	1
PCB-1242	ND		0.42	0.39	ug/L		08/08/17 13:10	08/09/17 12:13	1
PCB-1248	ND		0.42	0.29	ug/L		08/08/17 13:10	08/09/17 12:13	1
PCB-1254	ND		0.42	0.21	ug/L		08/08/17 13:10	08/09/17 12:13	1
PCB-1260	ND		0.42	0.24	ug/L		08/08/17 13:10	08/09/17 12:13	1
PCB-1262	ND		0.42	0.28	ug/L		08/08/17 13:10	08/09/17 12:13	1
PCB-1268	ND		0.42	0.28	ug/L		08/08/17 13:10	08/09/17 12:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*88*		*52 - 131*	*08/08/17 13:10*	*08/09/17 12:13*	*1*
DCB Decachlorobiphenyl (Surr)	*94*		*52 - 131*	*08/08/17 13:10*	*08/09/17 12:13*	*1*
Tetrachloro-m-xylene (Surr)	*95*		*50 - 124*	*08/08/17 13:10*	*08/09/17 12:13*	*1*
Tetrachloro-m-xylene (Surr)	*92*		*50 - 124*	*08/08/17 13:10*	*08/09/17 12:13*	*1*

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		10	4.1	ug/L		08/08/17 08:08	08/09/17 13:34	1
Barium	ND		200	1.1	ug/L		08/08/17 08:08	08/09/17 13:34	1
Beryllium	ND		4.0	0.33	ug/L		08/08/17 08:08	08/09/17 13:34	1
Cadmium	ND		5.0	0.16	ug/L		08/08/17 08:08	08/09/17 13:34	1
Chromium	ND		5.0	0.78	ug/L		08/08/17 08:08	08/09/17 13:34	1
Copper	ND		25	2.2	ug/L		08/08/17 08:08	08/09/17 13:34	1
Lead	ND		10	2.9	ug/L		08/08/17 08:08	08/09/17 13:34	1
Manganese	ND		15	2.7	ug/L		08/08/17 08:08	08/09/17 13:34	1
Nickel	ND		40	1.5	ug/L		08/08/17 08:08	08/09/17 13:34	1
Selenium	ND		10	3.6	ug/L		08/08/17 08:08	08/09/17 13:34	1
Silver	ND		5.0	0.85	ug/L		08/08/17 08:08	08/09/17 13:34	1
Zinc	ND		20	5.8	ug/L		08/08/17 08:08	08/09/17 13:34	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.065	ug/L		08/09/17 12:32	08/10/17 09:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		10	3.3	ug/L		08/10/17 12:11	08/10/17 16:55	1

Client Sample ID: W5-b, S5, A 08.04.17

Lab Sample ID: 180-68986-7

Date Collected: 08/04/17 10:55

Matrix: Solid

Date Received: 08/05/17 09:00

Percent Solids: 87.8

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.017	0.0026	mg/Kg	☼	08/07/17 05:30	08/07/17 09:02	1
Benzene	ND		0.0041	0.0016	mg/Kg	☼	08/07/17 05:30	08/07/17 09:02	1
2-Butanone (MEK)	ND		0.0041	0.0024	mg/Kg	☼	08/07/17 05:30	08/07/17 09:02	1
Carbon tetrachloride	ND		0.0041	0.0027	mg/Kg	☼	08/07/17 05:30	08/07/17 09:02	1
Chlorobenzene	ND		0.0041	0.0013	mg/Kg	☼	08/07/17 05:30	08/07/17 09:02	1
Chloroform	ND		0.0041	0.0018	mg/Kg	☼	08/07/17 05:30	08/07/17 09:02	1

Client Sample ID: W5-b, S5, A 08.04.17 — Lab Sample ID: 180-68986-7

Date Collected: 08/04/17 10:55 — **Matrix: Solid**
Date Received: 08/05/17 09:00 — **Percent Solids: 87.8**

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		0.0041	0.0013	mg/Kg	☼	08/07/17 05:30	08/07/17 09:02	1
1,2-Dichlorobenzene	ND		0.0041	0.0033	mg/Kg	☼	08/07/17 05:30	08/07/17 09:02	1
1,3-Dichlorobenzene	ND		0.0041	0.0013	mg/Kg	☼	08/07/17 05:30	08/07/17 09:02	1
1,4-Dichlorobenzene	ND		0.0041	0.00085	mg/Kg	☼	08/07/17 05:30	08/07/17 09:02	1
1,1-Dichloroethane	ND		0.0041	0.0015	mg/Kg	☼	08/07/17 05:30	08/07/17 09:02	1
1,2-Dichloroethane	ND		0.0041	0.0012	mg/Kg	☼	08/07/17 05:30	08/07/17 09:02	1
1,1-Dichloroethene	ND		0.0041	0.0024	mg/Kg	☼	08/07/17 05:30	08/07/17 09:02	1
Ethylbenzene	ND		0.0041	0.0018	mg/Kg	☼	08/07/17 05:30	08/07/17 09:02	1
Methylene Chloride	ND		0.0041	0.0020	mg/Kg	☼	08/07/17 05:30	08/07/17 09:02	1
Methyl tert-butyl ether	ND		0.0041	0.0031	mg/Kg	☼	08/07/17 05:30	08/07/17 09:02	1
n-Butylbenzene	ND		0.0041	0.0031	mg/Kg	☼	08/07/17 05:30	08/07/17 09:02	1
N-Propylbenzene	ND		0.0041	0.0017	mg/Kg	☼	08/07/17 05:30	08/07/17 09:02	1
sec-Butylbenzene	ND		0.0041	0.0020	mg/Kg	☼	08/07/17 05:30	08/07/17 09:02	1
tert-Butylbenzene	ND		0.0041	0.0015	mg/Kg	☼	08/07/17 05:30	08/07/17 09:02	1
Tetrachloroethene	ND		0.0041	0.0017	mg/Kg	☼	08/07/17 05:30	08/07/17 09:02	1
Toluene	ND		0.0041	0.0014	mg/Kg	☼	08/07/17 05:30	08/07/17 09:02	1
trans-1,2-Dichloroethene	ND		0.0041	0.0021	mg/Kg	☼	08/07/17 05:30	08/07/17 09:02	1
1,1,1-Trichloroethane	ND		0.0041	0.0021	mg/Kg	☼	08/07/17 05:30	08/07/17 09:02	1
Trichloroethene	ND		0.0041	0.0012	mg/Kg	☼	08/07/17 05:30	08/07/17 09:02	1
1,2,4-Trimethylbenzene	ND		0.0041	0.0011	mg/Kg	☼	08/07/17 05:30	08/07/17 09:02	1
1,3,5-Trimethylbenzene	ND		0.0041	0.0014	mg/Kg	☼	08/07/17 05:30	08/07/17 09:02	1
Vinyl chloride	ND		0.0041	0.0030	mg/Kg	☼	08/07/17 05:30	08/07/17 09:02	1
Xylenes, Total	ND		0.0083	0.0036	mg/Kg	☼	08/07/17 05:30	08/07/17 09:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*63 - 120*	*08/07/17 05:30*	*08/07/17 09:02*	*1*
Dibromofluoromethane (Surr)	*101*		*68 - 121*	*08/07/17 05:30*	*08/07/17 09:02*	*1*
1,2-Dichloroethane-d4 (Surr)	*118*		*52 - 124*	*08/07/17 05:30*	*08/07/17 09:02*	*1*
Toluene-d8 (Surr)	*99*		*72 - 127*	*08/07/17 05:30*	*08/07/17 09:02*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	12.2		0.1	0.1	%			08/08/17 14:36	1
Percent Solids	87.8		0.1	0.1	%			08/08/17 14:36	1

Client Sample ID: W5-b, S5, B 08.04.17 — Lab Sample ID: 180-68986-8

Date Collected: 08/04/17 11:05 — **Matrix: Solid**
Date Received: 08/05/17 09:00 — **Percent Solids: 89.8**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.020	0.0031	mg/Kg	☼	08/07/17 05:30	08/07/17 10:54	1
Benzene	ND		0.0050	0.0020	mg/Kg	☼	08/07/17 05:30	08/07/17 10:54	1
2-Butanone (MEK)	ND		0.0050	0.0029	mg/Kg	☼	08/07/17 05:30	08/07/17 10:54	1
Carbon tetrachloride	ND		0.0050	0.0033	mg/Kg	☼	08/07/17 05:30	08/07/17 10:54	1
Chlorobenzene	ND		0.0050	0.0016	mg/Kg	☼	08/07/17 05:30	08/07/17 10:54	1
Chloroform	ND		0.0050	0.0021	mg/Kg	☼	08/07/17 05:30	08/07/17 10:54	1
cis-1,2-Dichloroethene	ND		0.0050	0.0016	mg/Kg	☼	08/07/17 05:30	08/07/17 10:54	1
1,2-Dichlorobenzene	ND		0.0050	0.0040	mg/Kg	☼	08/07/17 05:30	08/07/17 10:54	1
1,3-Dichlorobenzene	ND		0.0050	0.0016	mg/Kg	☼	08/07/17 05:30	08/07/17 10:54	1

Client Sample ID: W5-b, S5, B 08.04.17 — Lab Sample ID: 180-68986-8

Date Collected: 08/04/17 11:05 — **Matrix: Solid**
Date Received: 08/05/17 09:00 — **Percent Solids: 89.8**

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		0.0050	0.0010	mg/Kg	☼	08/07/17 05:30	08/07/17 10:54	1
1,1-Dichloroethane	ND		0.0050	0.0018	mg/Kg	☼	08/07/17 05:30	08/07/17 10:54	1
1,2-Dichloroethane	ND		0.0050	0.0014	mg/Kg	☼	08/07/17 05:30	08/07/17 10:54	1
1,1-Dichloroethene	ND		0.0050	0.0028	mg/Kg	☼	08/07/17 05:30	08/07/17 10:54	1
Ethylbenzene	ND		0.0050	0.0021	mg/Kg	☼	08/07/17 05:30	08/07/17 10:54	1
Methylene Chloride	ND		0.0050	0.0023	mg/Kg	☼	08/07/17 05:30	08/07/17 10:54	1
Methyl tert-butyl ether	ND		0.0050	0.0037	mg/Kg	☼	08/07/17 05:30	08/07/17 10:54	1
n-Butylbenzene	ND		0.0050	0.0038	mg/Kg	☼	08/07/17 05:30	08/07/17 10:54	1
N-Propylbenzene	ND		0.0050	0.0021	mg/Kg	☼	08/07/17 05:30	08/07/17 10:54	1
sec-Butylbenzene	ND		0.0050	0.0024	mg/Kg	☼	08/07/17 05:30	08/07/17 10:54	1
tert-Butylbenzene	ND		0.0050	0.0018	mg/Kg	☼	08/07/17 05:30	08/07/17 10:54	1
Tetrachloroethene	ND		0.0050	0.0020	mg/Kg	☼	08/07/17 05:30	08/07/17 10:54	1
Toluene	ND		0.0050	0.0017	mg/Kg	☼	08/07/17 05:30	08/07/17 10:54	1
trans-1,2-Dichloroethene	ND		0.0050	0.0025	mg/Kg	☼	08/07/17 05:30	08/07/17 10:54	1
1,1,1-Trichloroethane	ND		0.0050	0.0025	mg/Kg	☼	08/07/17 05:30	08/07/17 10:54	1
Trichloroethene	ND		0.0050	0.0015	mg/Kg	☼	08/07/17 05:30	08/07/17 10:54	1
1,2,4-Trimethylbenzene	ND		0.0050	0.0013	mg/Kg	☼	08/07/17 05:30	08/07/17 10:54	1
1,3,5-Trimethylbenzene	ND		0.0050	0.0017	mg/Kg	☼	08/07/17 05:30	08/07/17 10:54	1
Vinyl chloride	ND		0.0050	0.0036	mg/Kg	☼	08/07/17 05:30	08/07/17 10:54	1
Xylenes, Total	ND		0.0099	0.0043	mg/Kg	☼	08/07/17 05:30	08/07/17 10:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*63 - 120*	*08/07/17 05:30*	*08/07/17 10:54*	*1*
Dibromofluoromethane (Surr)	*103*		*68 - 121*	*08/07/17 05:30*	*08/07/17 10:54*	*1*
1,2-Dichloroethane-d4 (Surr)	*107*		*52 - 124*	*08/07/17 05:30*	*08/07/17 10:54*	*1*
Toluene-d8 (Surr)	*109*		*72 - 127*	*08/07/17 05:30*	*08/07/17 10:54*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**10.2**		0.1	0.1	%			08/08/17 14:36	1
Percent Solids	**89.8**		0.1	0.1	%			08/08/17 14:36	1

Client Sample ID: W5-b, S5, C 08.04.17 — Lab Sample ID: 180-68986-9

Date Collected: 08/04/17 11:10 — **Matrix: Solid**
Date Received: 08/05/17 09:00 — **Percent Solids: 90.2**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.0046**	**J**	0.0074	0.0025	mg/Kg	☼	08/15/17 03:27	08/15/17 19:46	1
Acenaphthylene	**0.012**		0.0074	0.0025	mg/Kg	☼	08/15/17 03:27	08/15/17 19:46	1
Anthracene	**0.019**		0.0074	0.0027	mg/Kg	☼	08/15/17 03:27	08/15/17 19:46	1
Benzo[a]anthracene	**0.080**		0.0074	0.0029	mg/Kg	☼	08/15/17 03:27	08/15/17 19:46	1
Benzo[a]pyrene	**0.074**		0.0074	0.0031	mg/Kg	☼	08/15/17 03:27	08/15/17 19:46	1
Benzo[b]fluoranthene	**0.10**		0.0074	0.0032	mg/Kg	☼	08/15/17 03:27	08/15/17 19:46	1
Benzo[g,h,i]perylene	**0.074**		0.0074	0.0032	mg/Kg	☼	08/15/17 03:27	08/15/17 19:46	1
Benzo[k]fluoranthene	**0.028**		0.0074	0.0026	mg/Kg	☼	08/15/17 03:27	08/15/17 19:46	1
Chrysene	**0.090**		0.0074	0.0029	mg/Kg	☼	08/15/17 03:27	08/15/17 19:46	1
Dibenz(a,h)anthracene	**0.019**		0.0074	0.0031	mg/Kg	☼	08/15/17 03:27	08/15/17 19:46	1
Dibenzofuran	**0.0062**	**J**	0.037	0.0030	mg/Kg	☼	08/15/17 03:27	08/15/17 19:46	1
2,4-Dinitrotoluene	ND		37	4.9	ug/Kg	☼	08/15/17 03:27	08/15/17 19:46	1

Client Sample ID: W5-b, S5, C 08.04.17 **Lab Sample ID: 180-68986-9**
Date Collected: 08/04/17 11:10 **Matrix: Solid**
Date Received: 08/05/17 09:00 **Percent Solids: 90.2**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.074	0.0056	mg/Kg	☼	08/15/17 03:27	08/15/17 19:46	1
Fluoranthene	**0.16**		0.0074	0.0029	mg/Kg	☼	08/15/17 03:27	08/15/17 19:46	1
Fluorene	ND		0.0074	0.0026	mg/Kg	☼	08/15/17 03:27	08/15/17 19:46	1
Hexachlorobenzene	ND		0.0074	0.0030	mg/Kg	☼	08/15/17 03:27	08/15/17 19:46	1
Hexachlorobutadiene	ND		7.4	2.3	ug/Kg	☼	08/15/17 03:27	08/15/17 19:46	1
Hexachloroethane	ND		37	2.7	ug/Kg	☼	08/15/17 03:27	08/15/17 19:46	1
Indeno[1,2,3-cd]pyrene	**0.064**		0.0074	0.0029	mg/Kg	☼	08/15/17 03:27	08/15/17 19:46	1
2-Methylphenol	ND		0.037	0.0033	mg/Kg	☼	08/15/17 03:27	08/15/17 19:46	1
Methylphenol, 3 & 4	ND		0.037	0.0033	mg/Kg	☼	08/15/17 03:27	08/15/17 19:46	1
Naphthalene	**0.014**		0.0074	0.0027	mg/Kg	☼	08/15/17 03:27	08/15/17 19:46	1
Nitrobenzene	ND		74	2.8	ug/Kg	☼	08/15/17 03:27	08/15/17 19:46	1
Pentachlorophenol	ND		0.19	0.070	mg/Kg	☼	08/15/17 03:27	08/15/17 19:46	1
Phenanthrene	**0.071**		0.0074	0.0031	mg/Kg	☼	08/15/17 03:27	08/15/17 19:46	1
Phenol	ND		0.037	0.0050	mg/Kg	☼	08/15/17 03:27	08/15/17 19:46	1
Pyrene	**0.12**		0.0074	0.0033	mg/Kg	☼	08/15/17 03:27	08/15/17 19:46	1
Pyridine	ND		37	3.5	ug/Kg	☼	08/15/17 03:27	08/15/17 19:46	1
2,4,5-Trichlorophenol	ND		37	3.5	ug/Kg	☼	08/15/17 03:27	08/15/17 19:46	1
2,4,6-Trichlorophenol	ND		37	3.2	ug/Kg	☼	08/15/17 03:27	08/15/17 19:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*72*		*42 - 100*	*08/15/17 03:27*	*08/15/17 19:46*	*1*
2-Fluorophenol (Surr)	*64*		*21 - 107*	*08/15/17 03:27*	*08/15/17 19:46*	*1*
Nitrobenzene-d5 (Surr)	*71*		*35 - 109*	*08/15/17 03:27*	*08/15/17 19:46*	*1*
Phenol-d5 (Surr)	*68*		*29 - 105*	*08/15/17 03:27*	*08/15/17 19:46*	*1*
Terphenyl-d14 (Surr)	*62*		*36 - 113*	*08/15/17 03:27*	*08/15/17 19:46*	*1*
2,4,6-Tribromophenol (Surr)	*66*		*20 - 134*	*08/15/17 03:27*	*08/15/17 19:46*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.092	0.049	mg/Kg	☼	08/15/17 03:35	08/16/17 11:19	5
PCB-1221	ND		0.092	0.048	mg/Kg	☼	08/15/17 03:35	08/16/17 11:19	5
PCB-1232	ND		0.092	0.037	mg/Kg	☼	08/15/17 03:35	08/16/17 11:19	5
PCB-1242	ND		0.092	0.073	mg/Kg	☼	08/15/17 03:35	08/16/17 11:19	5
PCB-1248	**6.5**		0.092	0.044	mg/Kg	☼	08/15/17 03:35	08/16/17 11:19	5
PCB-1254	**2.2**		0.092	0.041	mg/Kg	☼	08/15/17 03:35	08/16/17 11:19	5
PCB-1260	**0.34**		0.092	0.062	mg/Kg	☼	08/15/17 03:35	08/16/17 11:19	5
PCB-1262	ND		0.092	0.066	mg/Kg	☼	08/15/17 03:35	08/16/17 11:19	5
PCB-1268	ND		0.092	0.028	mg/Kg	☼	08/15/17 03:35	08/16/17 11:19	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*103*		*23 - 150*	*08/15/17 03:35*	*08/16/17 11:19*	*5*
DCB Decachlorobiphenyl (Surr)	*100*		*23 - 150*	*08/15/17 03:35*	*08/16/17 11:19*	*5*
Tetrachloro-m-xylene (Surr)	*104*		*27 - 138*	*08/15/17 03:35*	*08/16/17 11:19*	*5*
Tetrachloro-m-xylene (Surr)	*99*		*27 - 138*	*08/15/17 03:35*	*08/16/17 11:19*	*5*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**6.5**		1.1	0.49	mg/Kg	☼	08/08/17 14:03	08/10/17 12:24	1
Barium	**93**		22	6.0	mg/Kg	☼	08/08/17 14:03	08/10/17 12:24	1
Beryllium	**0.30**	**J**	0.45	0.12	mg/Kg	☼	08/08/17 14:03	08/10/17 12:24	1

Client Sample ID: W5-b, S5, C 08.04.17 — Lab Sample ID: 180-68986-9

Date Collected: 08/04/17 11:10 — **Matrix: Solid**
Date Received: 08/05/17 09:00 — **Percent Solids: 90.2**

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.17	J	0.56	0.13	mg/Kg	☼	08/08/17 14:03	08/10/17 12:24	1
Chromium	11		0.56	0.15	mg/Kg	☼	08/08/17 14:03	08/10/17 12:24	1
Copper	41		2.8	0.86	mg/Kg	☼	08/08/17 14:03	08/10/17 12:24	1
Lead	91		1.1	0.37	mg/Kg	☼	08/08/17 14:03	08/10/17 12:24	1
Manganese	460		1.7	0.45	mg/Kg	☼	08/08/17 14:03	08/10/17 12:24	1
Nickel	42		4.5	1.0	mg/Kg	☼	08/08/17 14:03	08/10/17 12:24	1
Selenium	ND		1.1	0.44	mg/Kg	☼	08/08/17 14:03	08/10/17 12:24	1
Silver	ND		0.56	0.19	mg/Kg	☼	08/08/17 14:03	08/10/17 12:24	1
Zinc	73		2.2	1.1	mg/Kg	☼	08/08/17 14:03	08/10/17 12:24	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.058		0.028	0.0063	mg/Kg	☼	08/08/17 17:30	08/09/17 11:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.8		0.1	0.1	%			08/08/17 14:36	1
Percent Solids	90.2		0.1	0.1	%			08/08/17 14:36	1
Cyanide, Total	2.0		0.50	0.15	mg/Kg	☼	08/10/17 12:11	08/10/17 15:37	1

Client Sample ID: TRIP BLANK #1 — Lab Sample ID: 180-68986-10

Date Collected: 08/04/17 00:00 — **Matrix: Water**
Date Received: 08/05/17 09:00

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10		5.0	3.1	ug/L			08/08/17 06:44	1
Benzene	ND		1.0	0.18	ug/L			08/08/17 06:44	1
2-Butanone (MEK)	2.9	J	5.0	2.6	ug/L			08/08/17 06:44	1
Carbon tetrachloride	ND		1.0	0.56	ug/L			08/08/17 06:44	1
Chlorobenzene	ND		1.0	0.15	ug/L			08/08/17 06:44	1
Chloroform	ND		1.0	0.27	ug/L			08/08/17 06:44	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			08/08/17 06:44	1
1,2-Dichlorobenzene	ND		1.0	0.23	ug/L			08/08/17 06:44	1
1,3-Dichlorobenzene	ND		1.0	0.21	ug/L			08/08/17 06:44	1
1,4-Dichlorobenzene	ND		1.0	0.24	ug/L			08/08/17 06:44	1
1,1-Dichloroethane	ND		1.0	0.34	ug/L			08/08/17 06:44	1
1,2-Dichloroethane	ND		1.0	0.24	ug/L			08/08/17 06:44	1
1,1-Dichloroethene	ND		1.0	0.32	ug/L			08/08/17 06:44	1
Ethylbenzene	ND		1.0	0.25	ug/L			08/08/17 06:44	1
Methylene Chloride	ND		1.0	0.94	ug/L			08/08/17 06:44	1
Methyl tert-butyl ether	ND		1.0	0.20	ug/L			08/08/17 06:44	1
n-Butylbenzene	ND		1.0	0.22	ug/L			08/08/17 06:44	1
N-Propylbenzene	ND		1.0	0.20	ug/L			08/08/17 06:44	1
sec-Butylbenzene	ND		1.0	0.22	ug/L			08/08/17 06:44	1
tert-Butylbenzene	ND		1.0	0.17	ug/L			08/08/17 06:44	1
Tetrachloroethene	ND		1.0	0.24	ug/L			08/08/17 06:44	1
Toluene	ND		1.0	0.16	ug/L			08/08/17 06:44	1
trans-1,2-Dichloroethene	ND		1.0	0.20	ug/L			08/08/17 06:44	1
1,1,1-Trichloroethane	ND		1.0	0.27	ug/L			08/08/17 06:44	1

Client Sample ID: TRIP BLANK #1

Lab Sample ID: 180-68986-10
Date Collected: 08/04/17 00:00
Matrix: Water
Date Received: 08/05/17 09:00

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	ND		1.0	0.20	ug/L			08/08/17 06:44	1
1,2,4-Trimethylbenzene	ND		1.0	0.18	ug/L			08/08/17 06:44	1
1,3,5-Trimethylbenzene	ND		1.0	0.17	ug/L			08/08/17 06:44	1
Vinyl chloride	ND		1.0	0.17	ug/L			08/08/17 06:44	1
Xylenes, Total	ND		2.0	0.27	ug/L			08/08/17 06:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*72 - 120*		*08/08/17 06:44*	*1*
Dibromofluoromethane (Surr)	*99*		*77 - 127*		*08/08/17 06:44*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*72 - 134*		*08/08/17 06:44*	*1*
Toluene-d8 (Surr)	*89*		*80 - 120*		*08/08/17 06:44*	*1*

Client Sample ID: TRIP BLANK #2

Lab Sample ID: 180-68986-11
Date Collected: 08/04/17 00:00
Matrix: Water
Date Received: 08/05/17 09:00

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**3.9**	**J**	5.0	3.1	ug/L			08/08/17 07:07	1
Benzene	ND		1.0	0.18	ug/L			08/08/17 07:07	1
2-Butanone (MEK)	ND		5.0	2.6	ug/L			08/08/17 07:07	1
Carbon tetrachloride	ND		1.0	0.56	ug/L			08/08/17 07:07	1
Chlorobenzene	ND		1.0	0.15	ug/L			08/08/17 07:07	1
Chloroform	ND		1.0	0.27	ug/L			08/08/17 07:07	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			08/08/17 07:07	1
1,2-Dichlorobenzene	ND		1.0	0.23	ug/L			08/08/17 07:07	1
1,3-Dichlorobenzene	ND		1.0	0.21	ug/L			08/08/17 07:07	1
1,4-Dichlorobenzene	ND		1.0	0.24	ug/L			08/08/17 07:07	1
1,1-Dichloroethane	ND		1.0	0.34	ug/L			08/08/17 07:07	1
1,2-Dichloroethane	ND		1.0	0.24	ug/L			08/08/17 07:07	1
1,1-Dichloroethene	ND		1.0	0.32	ug/L			08/08/17 07:07	1
Ethylbenzene	ND		1.0	0.25	ug/L			08/08/17 07:07	1
Methylene Chloride	ND		1.0	0.94	ug/L			08/08/17 07:07	1
Methyl tert-butyl ether	ND		1.0	0.20	ug/L			08/08/17 07:07	1
n-Butylbenzene	ND		1.0	0.22	ug/L			08/08/17 07:07	1
N-Propylbenzene	ND		1.0	0.20	ug/L			08/08/17 07:07	1
sec-Butylbenzene	ND		1.0	0.22	ug/L			08/08/17 07:07	1
tert-Butylbenzene	ND		1.0	0.17	ug/L			08/08/17 07:07	1
Tetrachloroethene	ND		1.0	0.24	ug/L			08/08/17 07:07	1
Toluene	ND		1.0	0.16	ug/L			08/08/17 07:07	1
trans-1,2-Dichloroethene	ND		1.0	0.20	ug/L			08/08/17 07:07	1
1,1,1-Trichloroethane	ND		1.0	0.27	ug/L			08/08/17 07:07	1
Trichloroethene	ND		1.0	0.20	ug/L			08/08/17 07:07	1
1,2,4-Trimethylbenzene	ND		1.0	0.18	ug/L			08/08/17 07:07	1
1,3,5-Trimethylbenzene	ND		1.0	0.17	ug/L			08/08/17 07:07	1
Vinyl chloride	ND		1.0	0.17	ug/L			08/08/17 07:07	1
Xylenes, Total	ND		2.0	0.27	ug/L			08/08/17 07:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*72 - 120*		*08/08/17 07:07*	*1*

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68986-1

Client Sample ID: TRIP BLANK #2
Date Collected: 08/04/17 00:00
Date Received: 08/05/17 09:00

Lab Sample ID: 180-68986-11
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	98		77 - 127		08/08/17 07:07	1
1,2-Dichloroethane-d4 (Surr)	101		72 - 134		08/08/17 07:07	1
Toluene-d8 (Surr)	88		80 - 120		08/08/17 07:07	1

Method: 8260C - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 180-219341/5
Matrix: Water
Analysis Batch: 219341

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		5.0	3.1	ug/L			08/08/17 03:23	1
Benzene	ND		1.0	0.18	ug/L			08/08/17 03:23	1
2-Butanone (MEK)	ND		5.0	2.6	ug/L			08/08/17 03:23	1
Carbon tetrachloride	ND		1.0	0.56	ug/L			08/08/17 03:23	1
Chlorobenzene	ND		1.0	0.15	ug/L			08/08/17 03:23	1
Chloroform	ND		1.0	0.27	ug/L			08/08/17 03:23	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			08/08/17 03:23	1
1,2-Dichlorobenzene	ND		1.0	0.23	ug/L			08/08/17 03:23	1
1,3-Dichlorobenzene	ND		1.0	0.21	ug/L			08/08/17 03:23	1
1,4-Dichlorobenzene	ND		1.0	0.24	ug/L			08/08/17 03:23	1
1,1-Dichloroethane	ND		1.0	0.34	ug/L			08/08/17 03:23	1
1,2-Dichloroethane	ND		1.0	0.24	ug/L			08/08/17 03:23	1
1,1-Dichloroethene	ND		1.0	0.32	ug/L			08/08/17 03:23	1
Ethylbenzene	ND		1.0	0.25	ug/L			08/08/17 03:23	1
Methylene Chloride	ND		1.0	0.94	ug/L			08/08/17 03:23	1
Methyl tert-butyl ether	ND		1.0	0.20	ug/L			08/08/17 03:23	1
n-Butylbenzene	ND		1.0	0.22	ug/L			08/08/17 03:23	1
N-Propylbenzene	ND		1.0	0.20	ug/L			08/08/17 03:23	1
sec-Butylbenzene	ND		1.0	0.22	ug/L			08/08/17 03:23	1
tert-Butylbenzene	ND		1.0	0.17	ug/L			08/08/17 03:23	1
Tetrachloroethene	ND		1.0	0.24	ug/L			08/08/17 03:23	1
Toluene	ND		1.0	0.16	ug/L			08/08/17 03:23	1
trans-1,2-Dichloroethene	ND		1.0	0.20	ug/L			08/08/17 03:23	1
1,1,1-Trichloroethane	ND		1.0	0.27	ug/L			08/08/17 03:23	1
Trichloroethene	ND		1.0	0.20	ug/L			08/08/17 03:23	1
1,2,4-Trimethylbenzene	ND		1.0	0.18	ug/L			08/08/17 03:23	1
1,3,5-Trimethylbenzene	ND		1.0	0.17	ug/L			08/08/17 03:23	1
Vinyl chloride	ND		1.0	0.17	ug/L			08/08/17 03:23	1
Xylenes, Total	ND		2.0	0.27	ug/L			08/08/17 03:23	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*72 - 120*		*08/08/17 03:23*	*1*
Dibromofluoromethane (Surr)	*92*		*77 - 127*		*08/08/17 03:23*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*72 - 134*		*08/08/17 03:23*	*1*
Toluene-d8 (Surr)	*86*		*80 - 120*		*08/08/17 03:23*	*1*

Lab Sample ID: LCS 180-219341/3
Matrix: Water
Analysis Batch: 219341

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	20.0	23.5		ug/L		118	10 - 150
Benzene	10.0	10.1		ug/L		101	80 - 121
2-Butanone (MEK)	20.0	20.5		ug/L		103	41 - 150
Carbon tetrachloride	10.0	10.0		ug/L		100	59 - 145
Chlorobenzene	10.0	9.95		ug/L		99	80 - 120
Chloroform	10.0	9.90		ug/L		99	78 - 122
cis-1,2-Dichloroethene	10.0	9.87		ug/L		99	80 - 120

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 180-219341/3
Matrix: Water
Analysis Batch: 219341

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichlorobenzene	10.0	9.17		ug/L		92	80 - 120
1,3-Dichlorobenzene	10.0	9.42		ug/L		94	80 - 120
1,4-Dichlorobenzene	10.0	9.44		ug/L		94	80 - 120
1,1-Dichloroethane	10.0	10.0		ug/L		100	76 - 126
1,2-Dichloroethane	10.0	9.81		ug/L		98	72 - 126
1,1-Dichloroethene	10.0	10.3		ug/L		103	71 - 122
Ethylbenzene	10.0	10.1		ug/L		101	80 - 123
Methylene Chloride	10.0	9.54		ug/L		95	71 - 129
Methyl tert-butyl ether	10.0	9.54		ug/L		95	68 - 124
n-Butylbenzene	10.0	10.2		ug/L		102	75 - 120
N-Propylbenzene	10.0	10.2		ug/L		102	78 - 121
sec-Butylbenzene	10.0	10.1		ug/L		101	80 - 121
tert-Butylbenzene	10.0	9.94		ug/L		99	79 - 120
Tetrachloroethene	10.0	10.7		ug/L		107	80 - 122
Toluene	10.0	10.6		ug/L		106	80 - 125
trans-1,2-Dichloroethene	10.0	10.3		ug/L		103	80 - 121
1,1,1-Trichloroethane	10.0	9.91		ug/L		99	57 - 128
Trichloroethene	10.0	9.99		ug/L		100	79 - 120
1,2,4-Trimethylbenzene	10.0	9.76		ug/L		98	80 - 120
1,3,5-Trimethylbenzene	10.0	10.0		ug/L		100	80 - 122
Vinyl chloride	10.0	10.9		ug/L		109	61 - 138
Xylenes, Total	20.0	20.6		ug/L		103	80 - 123

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*107*		*72 - 120*
Dibromofluoromethane (Surr)	*99*		*77 - 127*
1,2-Dichloroethane-d4 (Surr)	*97*		*72 - 134*
Toluene-d8 (Surr)	*110*		*80 - 120*

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 180-219248/8
Matrix: Solid
Analysis Batch: 219248

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.020	0.0032	mg/Kg			08/07/17 08:39	1
Benzene	ND		0.0050	0.0020	mg/Kg			08/07/17 08:39	1
2-Butanone (MEK)	ND		0.0050	0.0029	mg/Kg			08/07/17 08:39	1
Carbon tetrachloride	ND		0.0050	0.0033	mg/Kg			08/07/17 08:39	1
Chlorobenzene	ND		0.0050	0.0016	mg/Kg			08/07/17 08:39	1
Chloroform	ND		0.0050	0.0021	mg/Kg			08/07/17 08:39	1
cis-1,2-Dichloroethene	ND		0.0050	0.0016	mg/Kg			08/07/17 08:39	1
1,2-Dichlorobenzene	ND		0.0050	0.0040	mg/Kg			08/07/17 08:39	1
1,3-Dichlorobenzene	ND		0.0050	0.0016	mg/Kg			08/07/17 08:39	1
1,4-Dichlorobenzene	ND		0.0050	0.0010	mg/Kg			08/07/17 08:39	1
1,1-Dichloroethane	ND		0.0050	0.0018	mg/Kg			08/07/17 08:39	1
1,2-Dichloroethane	ND		0.0050	0.0015	mg/Kg			08/07/17 08:39	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 180-219248/8
Matrix: Solid
Analysis Batch: 219248

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		0.0050	0.0029	mg/Kg			08/07/17 08:39	1
Ethylbenzene	ND		0.0050	0.0022	mg/Kg			08/07/17 08:39	1
Methylene Chloride	ND		0.0050	0.0024	mg/Kg			08/07/17 08:39	1
Methyl tert-butyl ether	ND		0.0050	0.0037	mg/Kg			08/07/17 08:39	1
n-Butylbenzene	ND		0.0050	0.0038	mg/Kg			08/07/17 08:39	1
N-Propylbenzene	ND		0.0050	0.0021	mg/Kg			08/07/17 08:39	1
sec-Butylbenzene	ND		0.0050	0.0024	mg/Kg			08/07/17 08:39	1
tert-Butylbenzene	ND		0.0050	0.0018	mg/Kg			08/07/17 08:39	1
Tetrachloroethene	ND		0.0050	0.0020	mg/Kg			08/07/17 08:39	1
Toluene	ND		0.0050	0.0017	mg/Kg			08/07/17 08:39	1
trans-1,2-Dichloroethene	ND		0.0050	0.0025	mg/Kg			08/07/17 08:39	1
1,1,1-Trichloroethane	ND		0.0050	0.0025	mg/Kg			08/07/17 08:39	1
Trichloroethene	ND		0.0050	0.0015	mg/Kg			08/07/17 08:39	1
1,2,4-Trimethylbenzene	ND		0.0050	0.0013	mg/Kg			08/07/17 08:39	1
1,3,5-Trimethylbenzene	ND		0.0050	0.0017	mg/Kg			08/07/17 08:39	1
Vinyl chloride	ND		0.0050	0.0037	mg/Kg			08/07/17 08:39	1
Xylenes, Total	ND		0.010	0.0043	mg/Kg			08/07/17 08:39	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*63 - 120*		*08/07/17 08:39*	*1*
Dibromofluoromethane (Surr)	*100*		*68 - 121*		*08/07/17 08:39*	*1*
1,2-Dichloroethane-d4 (Surr)	*120*		*52 - 124*		*08/07/17 08:39*	*1*
Toluene-d8 (Surr)	*100*		*72 - 127*		*08/07/17 08:39*	*1*

Lab Sample ID: LCS 180-219248/3
Matrix: Solid
Analysis Batch: 219248

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0400	0.0353		mg/Kg		88	20 - 150
Benzene	0.0400	0.0400		mg/Kg		100	77 - 120
2-Butanone (MEK)	0.0400	0.0321		mg/Kg		80	35 - 149
Carbon tetrachloride	0.0400	0.0479		mg/Kg		120	69 - 122
Chlorobenzene	0.0400	0.0385		mg/Kg		96	79 - 120
Chloroform	0.0400	0.0433		mg/Kg		108	72 - 120
cis-1,2-Dichloroethene	0.0400	0.0399		mg/Kg		100	80 - 118
1,2-Dichlorobenzene	0.0400	0.0362		mg/Kg		91	71 - 124
1,3-Dichlorobenzene	0.0400	0.0361		mg/Kg		90	75 - 118
1,4-Dichlorobenzene	0.0400	0.0366		mg/Kg		92	77 - 116
1,1-Dichloroethane	0.0400	0.0438		mg/Kg		109	66 - 124
1,2-Dichloroethane	0.0400	0.0464		mg/Kg		116	61 - 127
1,1-Dichloroethene	0.0400	0.0428		mg/Kg		107	59 - 129
Ethylbenzene	0.0400	0.0378		mg/Kg		95	78 - 125
Methylene Chloride	0.0400	0.0426		mg/Kg		106	58 - 127
Methyl tert-butyl ether	0.0400	0.0438		mg/Kg		109	48 - 132
n-Butylbenzene	0.0400	0.0434		mg/Kg		109	59 - 145
N-Propylbenzene	0.0400	0.0381		mg/Kg		95	80 - 120
sec-Butylbenzene	0.0400	0.0410		mg/Kg		103	70 - 130

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 180-219248/3
Matrix: Solid
Analysis Batch: 219248

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
tert-Butylbenzene	0.0400	0.0401		mg/Kg		100	74 - 133
Tetrachloroethene	0.0400	0.0353		mg/Kg		88	78 - 129
Toluene	0.0400	0.0393		mg/Kg		98	78 - 124
trans-1,2-Dichloroethene	0.0400	0.0434		mg/Kg		108	77 - 121
1,1,1-Trichloroethane	0.0400	0.0497		mg/Kg		124	67 - 126
Trichloroethene	0.0400	0.0371		mg/Kg		93	76 - 119
1,2,4-Trimethylbenzene	0.0400	0.0396		mg/Kg		99	80 - 121
1,3,5-Trimethylbenzene	0.0400	0.0396		mg/Kg		99	68 - 133
Vinyl chloride	0.0400	0.0398		mg/Kg		99	63 - 124
Xylenes, Total	0.0800	0.0760		mg/Kg		95	83 - 126

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*107*		*63 - 120*
Dibromofluoromethane (Surr)	*104*		*68 - 121*
1,2-Dichloroethane-d4 (Surr)	*117*		*52 - 124*
Toluene-d8 (Surr)	*103*		*72 - 127*

Lab Sample ID: 180-68986-7 MS
Matrix: Solid
Analysis Batch: 219248

Client Sample ID: W5-b, S5, A 08.04.17
Prep Type: Total/NA
Prep Batch: 219255

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	ND		0.0403	0.0330		mg/Kg	☼	82	20 - 150
Benzene	ND		0.0403	0.0371		mg/Kg	☼	92	77 - 120
2-Butanone (MEK)	ND		0.0403	0.0322		mg/Kg	☼	80	35 - 149
Carbon tetrachloride	ND		0.0403	0.0448		mg/Kg	☼	111	69 - 122
Chlorobenzene	ND		0.0403	0.0346		mg/Kg	☼	86	79 - 120
Chloroform	ND		0.0403	0.0411		mg/Kg	☼	102	72 - 120
cis-1,2-Dichloroethene	ND		0.0403	0.0376		mg/Kg	☼	93	80 - 118
1,2-Dichlorobenzene	ND		0.0403	0.0328		mg/Kg	☼	81	71 - 124
1,3-Dichlorobenzene	ND		0.0403	0.0336		mg/Kg	☼	83	75 - 118
1,4-Dichlorobenzene	ND		0.0403	0.0337		mg/Kg	☼	84	77 - 116
1,1-Dichloroethane	ND		0.0403	0.0421		mg/Kg	☼	104	66 - 124
1,2-Dichloroethane	ND		0.0403	0.0446		mg/Kg	☼	111	61 - 127
1,1-Dichloroethene	ND		0.0403	0.0393		mg/Kg	☼	98	59 - 129
Ethylbenzene	ND		0.0403	0.0346		mg/Kg	☼	86	78 - 125
Methylene Chloride	ND		0.0403	0.0385		mg/Kg	☼	96	58 - 127
Methyl tert-butyl ether	ND		0.0403	0.0428		mg/Kg	☼	106	48 - 132
n-Butylbenzene	ND		0.0403	0.0372		mg/Kg	☼	92	59 - 145
N-Propylbenzene	ND		0.0403	0.0379		mg/Kg	☼	94	80 - 120
sec-Butylbenzene	ND		0.0403	0.0377		mg/Kg	☼	94	70 - 130
tert-Butylbenzene	ND		0.0403	0.0374		mg/Kg	☼	93	74 - 133
Tetrachloroethene	ND		0.0403	0.0319		mg/Kg	☼	79	78 - 129
Toluene	ND		0.0403	0.0355		mg/Kg	☼	88	78 - 124
trans-1,2-Dichloroethene	ND		0.0403	0.0406		mg/Kg	☼	101	77 - 121
1,1,1-Trichloroethane	ND		0.0403	0.0455		mg/Kg	☼	113	67 - 126
Trichloroethene	ND		0.0403	0.0347		mg/Kg	☼	86	76 - 119
1,2,4-Trimethylbenzene	ND		0.0403	0.0374		mg/Kg	☼	93	80 - 121

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 180-68986-7 MS
Matrix: Solid
Analysis Batch: 219248

Client Sample ID: W5-b, S5, A 08.04.17
Prep Type: Total/NA
Prep Batch: 219255

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,3,5-Trimethylbenzene	ND		0.0403	0.0379		mg/Kg	☼	94	68 - 133
Vinyl chloride	ND		0.0403	0.0367		mg/Kg	☼	91	63 - 124
Xylenes, Total	ND		0.0806	0.0686		mg/Kg	☼	85	83 - 126

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*92*		*63 - 120*
Dibromofluoromethane (Surr)	*96*		*68 - 121*
1,2-Dichloroethane-d4 (Surr)	*108*		*52 - 124*
Toluene-d8 (Surr)	*91*		*72 - 127*

Lab Sample ID: 180-68986-7 MSD
Matrix: Solid
Analysis Batch: 219248

Client Sample ID: W5-b, S5, A 08.04.17
Prep Type: Total/NA
Prep Batch: 219255

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	ND		0.0432	0.0395		mg/Kg	☼	92	20 - 150	18	40
Benzene	ND		0.0432	0.0430		mg/Kg	☼	100	77 - 120	15	20
2-Butanone (MEK)	ND		0.0432	0.0378		mg/Kg	☼	88	35 - 149	16	36
Carbon tetrachloride	ND		0.0432	0.0512		mg/Kg	☼	118	69 - 122	13	22
Chlorobenzene	ND		0.0432	0.0401		mg/Kg	☼	93	79 - 120	15	20
Chloroform	ND		0.0432	0.0472		mg/Kg	☼	109	72 - 120	14	25
cis-1,2-Dichloroethene	ND		0.0432	0.0436		mg/Kg	☼	101	80 - 118	15	20
1,2-Dichlorobenzene	ND		0.0432	0.0396		mg/Kg	☼	92	71 - 124	19	22
1,3-Dichlorobenzene	ND		0.0432	0.0390		mg/Kg	☼	90	75 - 118	15	20
1,4-Dichlorobenzene	ND		0.0432	0.0394		mg/Kg	☼	91	77 - 116	16	20
1,1-Dichloroethane	ND		0.0432	0.0483		mg/Kg	☼	112	66 - 124	14	23
1,2-Dichloroethane	ND		0.0432	0.0509		mg/Kg	☼	118	61 - 127	13	23
1,1-Dichloroethene	ND		0.0432	0.0452		mg/Kg	☼	105	59 - 129	14	25
Ethylbenzene	ND		0.0432	0.0406		mg/Kg	☼	94	78 - 125	16	21
Methylene Chloride	ND		0.0432	0.0472		mg/Kg	☼	109	58 - 127	20	28
Methyl tert-butyl ether	ND		0.0432	0.0495		mg/Kg	☼	115	48 - 132	14	36
n-Butylbenzene	ND		0.0432	0.0462		mg/Kg	☼	107	59 - 145	22	24
N-Propylbenzene	ND		0.0432	0.0411		mg/Kg	☼	95	80 - 120	8	20
sec-Butylbenzene	ND		0.0432	0.0434		mg/Kg	☼	101	70 - 130	14	21
tert-Butylbenzene	ND		0.0432	0.0419		mg/Kg	☼	97	74 - 133	11	22
Tetrachloroethene	ND		0.0432	0.0359		mg/Kg	☼	83	78 - 129	12	20
Toluene	ND		0.0432	0.0400		mg/Kg	☼	93	78 - 124	12	21
trans-1,2-Dichloroethene	ND		0.0432	0.0470		mg/Kg	☼	109	77 - 121	15	20
1,1,1-Trichloroethane	ND		0.0432	0.0533		mg/Kg	☼	123	67 - 126	16	31
Trichloroethene	ND		0.0432	0.0399		mg/Kg	☼	92	76 - 119	14	21
1,2,4-Trimethylbenzene	ND		0.0432	0.0421		mg/Kg	☼	97	80 - 121	12	20
1,3,5-Trimethylbenzene	ND		0.0432	0.0422		mg/Kg	☼	98	68 - 133	11	21
Vinyl chloride	ND		0.0432	0.0438		mg/Kg	☼	101	63 - 124	18	27
Xylenes, Total	ND		0.0864	0.0805		mg/Kg	☼	93	83 - 126	16	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*63 - 120*

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 180-68986-7 MSD
Matrix: Solid
Analysis Batch: 219248

Client Sample ID: W5-b, S5, A 08.04.17
Prep Type: Total/NA
Prep Batch: 219255

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Dibromofluoromethane (Surr)	*104*		*68 - 121*
1,2-Dichloroethane-d4 (Surr)	*117*		*52 - 124*
Toluene-d8 (Surr)	*96*		*72 - 127*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 180-219432/1-A
Matrix: Water
Analysis Batch: 219660

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 219432

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		1.9	0.72	ug/L		08/08/17 11:53	08/10/17 10:40	1
Acenaphthylene	ND		1.9	0.60	ug/L		08/08/17 11:53	08/10/17 10:40	1
Anthracene	ND		1.9	0.56	ug/L		08/08/17 11:53	08/10/17 10:40	1
Benzo[a]anthracene	ND		1.9	1.2	ug/L		08/08/17 11:53	08/10/17 10:40	1
Benzo[a]pyrene	ND		1.9	0.89	ug/L		08/08/17 11:53	08/10/17 10:40	1
Benzo[b]fluoranthene	ND		1.9	0.66	ug/L		08/08/17 11:53	08/10/17 10:40	1
Benzo[g,h,i]perylene	ND		1.9	0.82	ug/L		08/08/17 11:53	08/10/17 10:40	1
Benzo[k]fluoranthene	ND		1.9	1.8	ug/L		08/08/17 11:53	08/10/17 10:40	1
Chrysene	ND		1.9	0.84	ug/L		08/08/17 11:53	08/10/17 10:40	1
Dibenz(a,h)anthracene	ND		1.9	0.78	ug/L		08/08/17 11:53	08/10/17 10:40	1
Dibenzofuran	ND		10	1.2	ug/L		08/08/17 11:53	08/10/17 10:40	1
2,4-Dinitrotoluene	ND		10	1.3	ug/L		08/08/17 11:53	08/10/17 10:40	1
1,4-Dioxane	ND		20	3.7	ug/L		08/08/17 11:53	08/10/17 10:40	1
Fluoranthene	ND		1.9	1.2	ug/L		08/08/17 11:53	08/10/17 10:40	1
Fluorene	ND		1.9	1.1	ug/L		08/08/17 11:53	08/10/17 10:40	1
Hexachlorobenzene	ND		1.9	1.0	ug/L		08/08/17 11:53	08/10/17 10:40	1
Hexachlorobutadiene	ND		1.9	0.57	ug/L		08/08/17 11:53	08/10/17 10:40	1
Hexachloroethane	ND		10	0.71	ug/L		08/08/17 11:53	08/10/17 10:40	1
Indeno[1,2,3-cd]pyrene	ND		1.9	0.77	ug/L		08/08/17 11:53	08/10/17 10:40	1
2-Methylphenol	ND		10	2.3	ug/L		08/08/17 11:53	08/10/17 10:40	1
Methylphenol, 3 & 4	ND		10	2.4	ug/L		08/08/17 11:53	08/10/17 10:40	1
Naphthalene	ND		1.9	1.8	ug/L		08/08/17 11:53	08/10/17 10:40	1
Nitrobenzene	ND		20	1.3	ug/L		08/08/17 11:53	08/10/17 10:40	1
Pentachlorophenol	ND		50	2.7	ug/L		08/08/17 11:53	08/10/17 10:40	1
Phenanthrene	ND		1.9	1.3	ug/L		08/08/17 11:53	08/10/17 10:40	1
Phenol	ND		10	3.0	ug/L		08/08/17 11:53	08/10/17 10:40	1
Pyrene	ND		1.9	0.92	ug/L		08/08/17 11:53	08/10/17 10:40	1
Pyridine	ND		10	4.4	ug/L		08/08/17 11:53	08/10/17 10:40	1
2,4,5-Trichlorophenol	ND		10	0.60	ug/L		08/08/17 11:53	08/10/17 10:40	1
2,4,6-Trichlorophenol	ND		10	0.74	ug/L		08/08/17 11:53	08/10/17 10:40	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	*59*		*35 - 100*	*08/08/17 11:53*	*08/10/17 10:40*	*1*
2-Fluorophenol (Surr)	*65*		*22 - 100*	*08/08/17 11:53*	*08/10/17 10:40*	*1*
Nitrobenzene-d5 (Surr)	*56*		*29 - 100*	*08/08/17 11:53*	*08/10/17 10:40*	*1*
Phenol-d5 (Surr)	*57*		*25 - 100*	*08/08/17 11:53*	*08/10/17 10:40*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 180-219432/1-A
Matrix: Water
Analysis Batch: 219660

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 219432

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14 (Surr)	*57*		*20 - 116*	*08/08/17 11:53*	*08/10/17 10:40*	*1*
2,4,6-Tribromophenol (Surr)	*70*		*28 - 103*	*08/08/17 11:53*	*08/10/17 10:40*	*1*

Lab Sample ID: LCS 180-219432/2-A
Matrix: Water
Analysis Batch: 219660

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 219432

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	200	114		ug/L		57	47 - 100
Acenaphthylene	200	115		ug/L		58	49 - 100
Anthracene	200	119		ug/L		59	50 - 100
Benzo[a]anthracene	200	123		ug/L		62	48 - 100
Benzo[a]pyrene	200	122		ug/L		61	48 - 100
Benzo[b]fluoranthene	200	109		ug/L		55	45 - 100
Benzo[g,h,i]perylene	200	128		ug/L		64	44 - 104
Benzo[k]fluoranthene	200	118		ug/L		59	46 - 100
Chrysene	200	128		ug/L		64	48 - 100
Dibenz(a,h)anthracene	200	132		ug/L		66	44 - 104
Dibenzofuran	200	123		ug/L		62	49 - 100
2,4-Dinitrotoluene	200	141		ug/L		71	49 - 100
1,4-Dioxane	200	158		ug/L		79	29 - 100
Fluoranthene	200	130		ug/L		65	47 - 100
Fluorene	200	122		ug/L		61	48 - 100
Hexachlorobenzene	200	124		ug/L		62	47 - 100
Hexachlorobutadiene	200	143		ug/L		71	47 - 100
Hexachloroethane	200	124		ug/L		62	42 - 100
Indeno[1,2,3-cd]pyrene	200	129		ug/L		64	44 - 103
2-Methylphenol	200	121		ug/L		60	45 - 100
Methylphenol, 3 & 4	200	125		ug/L		62	46 - 100
Naphthalene	200	120		ug/L		60	47 - 100
Nitrobenzene	200	105		ug/L		52	46 - 100
Pentachlorophenol	400	233		ug/L		58	41 - 100
Phenanthrene	200	114		ug/L		57	48 - 100
Phenol	200	116		ug/L		58	44 - 100
Pyrene	200	115		ug/L		58	45 - 100
Pyridine	400	322		ug/L		80	29 - 114
2,4,5-Trichlorophenol	200	120		ug/L		60	50 - 100
2,4,6-Trichlorophenol	200	124		ug/L		62	51 - 100

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	*57*		*35 - 100*
2-Fluorophenol (Surr)	*70*		*22 - 100*
Nitrobenzene-d5 (Surr)	*54*		*29 - 100*
Phenol-d5 (Surr)	*59*		*25 - 100*
Terphenyl-d14 (Surr)	*62*		*20 - 116*
2,4,6-Tribromophenol (Surr)	*68*		*28 - 103*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 180-219432/3-A
Matrix: Water
Analysis Batch: 219660

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 219432

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene			200	118		ug/L		59	47 - 100	3	15
Acenaphthylene			200	119		ug/L		60	49 - 100	3	15
Anthracene			200	119		ug/L		60	50 - 100	0	15
Benzo[a]anthracene			200	125		ug/L		62	48 - 100	1	15
Benzo[a]pyrene			200	126		ug/L		63	48 - 100	3	15
Benzo[b]fluoranthene			200	116		ug/L		58	45 - 100	6	15
Benzo[g,h,i]perylene			200	132		ug/L		66	44 - 104	2	15
Benzo[k]fluoranthene			200	114		ug/L		57	46 - 100	3	15
Chrysene			200	128		ug/L		64	48 - 100	1	15
Dibenz(a,h)anthracene			200	135		ug/L		68	44 - 104	3	15
Dibenzofuran			200	127		ug/L		64	49 - 100	3	15
2,4-Dinitrotoluene			200	147		ug/L		73	49 - 100	4	15
1,4-Dioxane			200	166		ug/L		83	29 - 100	5	15
Fluoranthene			200	132		ug/L		66	47 - 100	1	15
Fluorene			200	128		ug/L		64	48 - 100	4	15
Hexachlorobenzene			200	125		ug/L		62	47 - 100	0	15
Hexachlorobutadiene			200	148		ug/L		74	47 - 100	4	15
Hexachloroethane			200	131		ug/L		65	42 - 100	5	15
Indeno[1,2,3-cd]pyrene			200	132		ug/L		66	44 - 103	2	15
2-Methylphenol			200	125		ug/L		63	45 - 100	4	15
Methylphenol, 3 & 4			200	126		ug/L		63	46 - 100	1	15
Naphthalene			200	123		ug/L		61	47 - 100	2	15
Nitrobenzene			200	109		ug/L		55	46 - 100	4	15
Pentachlorophenol			400	236		ug/L		59	41 - 100	1	15
Phenanthrene			200	117		ug/L		59	48 - 100	3	15
Phenol			200	120		ug/L		60	44 - 100	4	15
Pyrene			200	118		ug/L		59	45 - 100	2	15
Pyridine			400	339		ug/L		85	29 - 114	5	35
2,4,5-Trichlorophenol			200	126		ug/L		63	50 - 100	4	15
2,4,6-Trichlorophenol			200	127		ug/L		63	51 - 100	2	15

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*58*		*35 - 100*
2-Fluorophenol (Surr)	*72*		*22 - 100*
Nitrobenzene-d5 (Surr)	*56*		*29 - 100*
Phenol-d5 (Surr)	*62*		*25 - 100*
Terphenyl-d14 (Surr)	*63*		*20 - 116*
2,4,6-Tribromophenol (Surr)	*69*		*28 - 103*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Lab Sample ID: MB 180-220050/1-A
Matrix: Solid
Analysis Batch: 220091

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 220050

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0034	0.0011	mg/Kg		08/15/17 03:27	08/15/17 10:21	1

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: MB 180-220050/1-A
Matrix: Solid
Analysis Batch: 220091

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 220050

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthylene	ND		0.0034	0.0011	mg/Kg		08/15/17 03:27	08/15/17 10:21	1
Anthracene	ND		0.0034	0.0012	mg/Kg		08/15/17 03:27	08/15/17 10:21	1
Benzo[a]anthracene	ND		0.0034	0.0013	mg/Kg		08/15/17 03:27	08/15/17 10:21	1
Benzo[a]pyrene	ND		0.0034	0.0014	mg/Kg		08/15/17 03:27	08/15/17 10:21	1
Benzo[b]fluoranthene	ND		0.0034	0.0014	mg/Kg		08/15/17 03:27	08/15/17 10:21	1
Benzo[g,h,i]perylene	ND		0.0034	0.0014	mg/Kg		08/15/17 03:27	08/15/17 10:21	1
Benzo[k]fluoranthene	ND		0.0034	0.0012	mg/Kg		08/15/17 03:27	08/15/17 10:21	1
Chrysene	ND		0.0034	0.0013	mg/Kg		08/15/17 03:27	08/15/17 10:21	1
Dibenz(a,h)anthracene	ND		0.0034	0.0014	mg/Kg		08/15/17 03:27	08/15/17 10:21	1
Dibenzofuran	ND		0.017	0.0013	mg/Kg		08/15/17 03:27	08/15/17 10:21	1
2,4-Dinitrotoluene	ND		17	2.2	ug/Kg		08/15/17 03:27	08/15/17 10:21	1
1,4-Dioxane	ND		0.033	0.0025	mg/Kg		08/15/17 03:27	08/15/17 10:21	1
Fluoranthene	ND		0.0034	0.0013	mg/Kg		08/15/17 03:27	08/15/17 10:21	1
Fluorene	ND		0.0034	0.0012	mg/Kg		08/15/17 03:27	08/15/17 10:21	1
Hexachlorobenzene	ND		0.0034	0.0013	mg/Kg		08/15/17 03:27	08/15/17 10:21	1
Hexachlorobutadiene	ND		3.4	1.1	ug/Kg		08/15/17 03:27	08/15/17 10:21	1
Hexachloroethane	ND		17	1.2	ug/Kg		08/15/17 03:27	08/15/17 10:21	1
Indeno[1,2,3-cd]pyrene	ND		0.0034	0.0013	mg/Kg		08/15/17 03:27	08/15/17 10:21	1
2-Methylphenol	ND		0.017	0.0015	mg/Kg		08/15/17 03:27	08/15/17 10:21	1
Methylphenol, 3 & 4	ND		0.017	0.0015	mg/Kg		08/15/17 03:27	08/15/17 10:21	1
Naphthalene	ND		0.0034	0.0012	mg/Kg		08/15/17 03:27	08/15/17 10:21	1
Nitrobenzene	ND		33	1.3	ug/Kg		08/15/17 03:27	08/15/17 10:21	1
Pentachlorophenol	ND		0.085	0.032	mg/Kg		08/15/17 03:27	08/15/17 10:21	1
Phenanthrene	ND		0.0034	0.0014	mg/Kg		08/15/17 03:27	08/15/17 10:21	1
Phenol	ND		0.017	0.0023	mg/Kg		08/15/17 03:27	08/15/17 10:21	1
Pyrene	ND		0.0034	0.0015	mg/Kg		08/15/17 03:27	08/15/17 10:21	1
Pyridine	ND		17	1.6	ug/Kg		08/15/17 03:27	08/15/17 10:21	1
2,4,5-Trichlorophenol	ND		17	1.6	ug/Kg		08/15/17 03:27	08/15/17 10:21	1
2,4,6-Trichlorophenol	ND		17	1.5	ug/Kg		08/15/17 03:27	08/15/17 10:21	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*69*		*42 - 100*	*08/15/17 03:27*	*08/15/17 10:21*	*1*
2-Fluorophenol (Surr)	*75*		*21 - 107*	*08/15/17 03:27*	*08/15/17 10:21*	*1*
Nitrobenzene-d5 (Surr)	*71*		*35 - 109*	*08/15/17 03:27*	*08/15/17 10:21*	*1*
Phenol-d5 (Surr)	*73*		*29 - 105*	*08/15/17 03:27*	*08/15/17 10:21*	*1*
Terphenyl-d14 (Surr)	*72*		*36 - 113*	*08/15/17 03:27*	*08/15/17 10:21*	*1*
2,4,6-Tribromophenol (Surr)	*67*		*20 - 134*	*08/15/17 03:27*	*08/15/17 10:21*	*1*

Lab Sample ID: LCS 180-220050/2-A
Matrix: Solid
Analysis Batch: 220091

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 220050

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	0.333	0.244		mg/Kg		73	39 - 100
Acenaphthylene	0.333	0.246		mg/Kg		74	42 - 100
Anthracene	0.333	0.242		mg/Kg		73	43 - 100
Benzo[a]anthracene	0.333	0.242		mg/Kg		72	43 - 100
Benzo[a]pyrene	0.333	0.238		mg/Kg		72	43 - 100

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCS 180-220050/2-A
Matrix: Solid
Analysis Batch: 220091

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 220050

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzo[b]fluoranthene	0.333	0.236		mg/Kg		71	40 - 100
Benzo[g,h,i]perylene	0.333	0.266		mg/Kg		80	41 - 102
Benzo[k]fluoranthene	0.333	0.241		mg/Kg		72	44 - 100
Chrysene	0.333	0.230		mg/Kg		69	44 - 100
Dibenz(a,h)anthracene	0.333	0.278		mg/Kg		83	40 - 104
Dibenzofuran	0.333	0.245		mg/Kg		73	42 - 100
2,4-Dinitrotoluene	333	264		ug/Kg		79	42 - 110
1,4-Dioxane	0.333	0.235		mg/Kg		71	19 - 107
Fluoranthene	0.333	0.250		mg/Kg		75	41 - 104
Fluorene	0.333	0.246		mg/Kg		74	41 - 100
Hexachlorobenzene	0.333	0.229		mg/Kg		69	43 - 100
Hexachlorobutadiene	333	223		ug/Kg		67	35 - 100
Hexachloroethane	333	240		ug/Kg		72	35 - 100
Indeno[1,2,3-cd]pyrene	0.333	0.275		mg/Kg		82	41 - 104
2-Methylphenol	0.333	0.244		mg/Kg		73	38 - 100
Methylphenol, 3 & 4	0.333	0.245		mg/Kg		73	40 - 100
Naphthalene	0.333	0.233		mg/Kg		70	38 - 100
Nitrobenzene	333	240		ug/Kg		72	34 - 100
Pentachlorophenol	0.667	0.498		mg/Kg		75	34 - 102
Phenanthrene	0.333	0.235		mg/Kg		70	41 - 100
Phenol	0.333	0.240		mg/Kg		72	36 - 100
Pyrene	0.333	0.242		mg/Kg		73	42 - 100
Pyridine	667	488		ug/Kg		73	25 - 119
2,4,5-Trichlorophenol	333	241		ug/Kg		72	42 - 100
2,4,6-Trichlorophenol	333	259		ug/Kg		78	41 - 103

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*69*		*42 - 100*
2-Fluorophenol (Surr)	*72*		*21 - 107*
Nitrobenzene-d5 (Surr)	*73*		*35 - 109*
Phenol-d5 (Surr)	*73*		*29 - 105*
Terphenyl-d14 (Surr)	*70*		*36 - 113*
2,4,6-Tribromophenol (Surr)	*69*		*20 - 134*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 180-219453/1-A
Matrix: Water
Analysis Batch: 219515

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 219453

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.40	0.14	ug/L		08/08/17 13:10	08/09/17 09:32	1
PCB-1221	ND		0.40	0.37	ug/L		08/08/17 13:10	08/09/17 09:32	1
PCB-1232	ND		0.40	0.13	ug/L		08/08/17 13:10	08/09/17 09:32	1
PCB-1242	ND		0.40	0.37	ug/L		08/08/17 13:10	08/09/17 09:32	1
PCB-1248	ND		0.40	0.27	ug/L		08/08/17 13:10	08/09/17 09:32	1
PCB-1254	ND		0.40	0.20	ug/L		08/08/17 13:10	08/09/17 09:32	1
PCB-1260	ND		0.40	0.23	ug/L		08/08/17 13:10	08/09/17 09:32	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: MB 180-219453/1-A
Matrix: Water
Analysis Batch: 219515

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 219453

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1262	ND		0.40	0.27	ug/L		08/08/17 13:10	08/09/17 09:32	1
PCB-1268	ND		0.40	0.26	ug/L		08/08/17 13:10	08/09/17 09:32	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*96*		*52 - 131*	*08/08/17 13:10*	*08/09/17 09:32*	*1*
DCB Decachlorobiphenyl (Surr)	*99*		*52 - 131*	*08/08/17 13:10*	*08/09/17 09:32*	*1*
Tetrachloro-m-xylene (Surr)	*105*		*50 - 124*	*08/08/17 13:10*	*08/09/17 09:32*	*1*
Tetrachloro-m-xylene (Surr)	*98*		*50 - 124*	*08/08/17 13:10*	*08/09/17 09:32*	*1*

Lab Sample ID: LCS 180-219453/2-A
Matrix: Water
Analysis Batch: 219515

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 219453

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			40.0	37.5		ug/L		94	57 - 129		
PCB-1260			40.0	38.9		ug/L		97	56 - 131		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*90*		*52 - 131*
DCB Decachlorobiphenyl (Surr)	*96*		*52 - 131*
Tetrachloro-m-xylene (Surr)	*101*		*50 - 124*
Tetrachloro-m-xylene (Surr)	*90*		*50 - 124*

Lab Sample ID: LCSD 180-219453/3-A
Matrix: Water
Analysis Batch: 219515

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 219453

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016			40.0	38.8		ug/L		97	57 - 129	3	20
PCB-1260			40.0	40.1		ug/L		100	56 - 131	3	22

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*93*		*52 - 131*
DCB Decachlorobiphenyl (Surr)	*96*		*52 - 131*
Tetrachloro-m-xylene (Surr)	*100*		*50 - 124*
Tetrachloro-m-xylene (Surr)	*92*		*50 - 124*

Lab Sample ID: MB 180-220051/1-A
Matrix: Solid
Analysis Batch: 220079

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 220051

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.017	0.0088	mg/Kg		08/15/17 03:35	08/15/17 10:51	1
PCB-1221	ND		0.017	0.0086	mg/Kg		08/15/17 03:35	08/15/17 10:51	1
PCB-1232	ND		0.017	0.0066	mg/Kg		08/15/17 03:35	08/15/17 10:51	1
PCB-1242	ND		0.017	0.013	mg/Kg		08/15/17 03:35	08/15/17 10:51	1
PCB-1248	ND		0.017	0.0080	mg/Kg		08/15/17 03:35	08/15/17 10:51	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: MB 180-220051/1-A
Matrix: Solid
Analysis Batch: 220079

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 220051

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1254	ND		0.017	0.0073	mg/Kg		08/15/17 03:35	08/15/17 10:51	1
PCB-1260	ND		0.017	0.011	mg/Kg		08/15/17 03:35	08/15/17 10:51	1
PCB-1262	ND		0.017	0.012	mg/Kg		08/15/17 03:35	08/15/17 10:51	1
PCB-1268	ND		0.017	0.0051	mg/Kg		08/15/17 03:35	08/15/17 10:51	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*98*		*23 - 150*	*08/15/17 03:35*	*08/15/17 10:51*	*1*
DCB Decachlorobiphenyl (Surr)	*98*		*23 - 150*	*08/15/17 03:35*	*08/15/17 10:51*	*1*
Tetrachloro-m-xylene (Surr)	*104*		*27 - 138*	*08/15/17 03:35*	*08/15/17 10:51*	*1*
Tetrachloro-m-xylene (Surr)	*102*		*27 - 138*	*08/15/17 03:35*	*08/15/17 10:51*	*1*

Lab Sample ID: LCS 180-220051/4-A
Matrix: Solid
Analysis Batch: 220079

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 220051

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			1.33	1.17		mg/Kg		87	52 - 126		
PCB-1260			1.33	1.05		mg/Kg		78	50 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*90*		*23 - 150*
DCB Decachlorobiphenyl (Surr)	*89*		*23 - 150*
Tetrachloro-m-xylene (Surr)	*88*		*27 - 138*
Tetrachloro-m-xylene (Surr)	*86*		*27 - 138*

Lab Sample ID: LCSD 180-220051/5-A
Matrix: Solid
Analysis Batch: 220079

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 220051

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016			1.33	1.26		mg/Kg		95	52 - 126	8	20
PCB-1260			1.33	1.10		mg/Kg		82	50 - 130	5	21

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*90*		*23 - 150*
DCB Decachlorobiphenyl (Surr)	*89*		*23 - 150*
Tetrachloro-m-xylene (Surr)	*93*		*27 - 138*
Tetrachloro-m-xylene (Surr)	*87*		*27 - 138*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 180-219443/1-A
Matrix: Solid
Analysis Batch: 219711

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 219443

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		1.0	0.44	mg/Kg		08/08/17 14:03	08/10/17 12:09	1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: MB 180-219443/1-A
Matrix: Solid
Analysis Batch: 219711

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 219443

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	ND		20	5.4	mg/Kg		08/08/17 14:03	08/10/17 12:09	1
Beryllium	ND		0.40	0.10	mg/Kg		08/08/17 14:03	08/10/17 12:09	1
Cadmium	ND		0.50	0.11	mg/Kg		08/08/17 14:03	08/10/17 12:09	1
Chromium	ND		0.50	0.13	mg/Kg		08/08/17 14:03	08/10/17 12:09	1
Copper	ND		2.5	0.77	mg/Kg		08/08/17 14:03	08/10/17 12:09	1
Lead	ND		1.0	0.33	mg/Kg		08/08/17 14:03	08/10/17 12:09	1
Manganese	ND		1.5	0.41	mg/Kg		08/08/17 14:03	08/10/17 12:09	1
Nickel	ND		4.0	0.90	mg/Kg		08/08/17 14:03	08/10/17 12:09	1
Selenium	ND		1.0	0.40	mg/Kg		08/08/17 14:03	08/10/17 12:09	1
Silver	ND		0.50	0.17	mg/Kg		08/08/17 14:03	08/10/17 12:09	1
Zinc	ND		2.0	1.0	mg/Kg		08/08/17 14:03	08/10/17 12:09	1

Lab Sample ID: LCS 180-219443/2-A
Matrix: Solid
Analysis Batch: 219711

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 219443

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	50.0	51.5		mg/Kg		103	80 - 120
Barium	200	208		mg/Kg		104	80 - 120
Beryllium	5.00	5.25		mg/Kg		105	80 - 120
Cadmium	5.00	5.11		mg/Kg		102	80 - 120
Chromium	20.0	19.8		mg/Kg		99	80 - 120
Copper	25.0	25.3		mg/Kg		101	80 - 120
Lead	50.0	51.2		mg/Kg		102	80 - 120
Manganese	50.0	50.1		mg/Kg		100	80 - 120
Nickel	50.0	51.4		mg/Kg		103	80 - 120
Selenium	50.0	52.3		mg/Kg		105	80 - 120
Silver	5.00	5.03		mg/Kg		101	80 - 120
Zinc	50.0	49.8		mg/Kg		100	80 - 120

Lab Sample ID: MB 180-219379/1-A
Matrix: Water
Analysis Batch: 219637

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 219379

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		10	4.1	ug/L		08/08/17 08:08	08/09/17 12:58	1
Barium	ND		200	1.1	ug/L		08/08/17 08:08	08/09/17 12:58	1
Beryllium	ND		4.0	0.33	ug/L		08/08/17 08:08	08/09/17 12:58	1
Cadmium	ND		5.0	0.16	ug/L		08/08/17 08:08	08/09/17 12:58	1
Chromium	ND		5.0	0.78	ug/L		08/08/17 08:08	08/09/17 12:58	1
Copper	ND		25	2.2	ug/L		08/08/17 08:08	08/09/17 12:58	1
Lead	ND		10	2.9	ug/L		08/08/17 08:08	08/09/17 12:58	1
Manganese	ND		15	2.7	ug/L		08/08/17 08:08	08/09/17 12:58	1
Nickel	ND		40	1.5	ug/L		08/08/17 08:08	08/09/17 12:58	1
Selenium	ND		10	3.6	ug/L		08/08/17 08:08	08/09/17 12:58	1
Silver	ND		5.0	0.85	ug/L		08/08/17 08:08	08/09/17 12:58	1
Zinc	ND		20	5.8	ug/L		08/08/17 08:08	08/09/17 12:58	1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCS 180-219379/2-A
Matrix: Water
Analysis Batch: 219637

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 219379

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	500	516		ug/L		103	80 - 120
Barium	2000	1960		ug/L		98	80 - 120
Beryllium	50.0	50.0		ug/L		100	80 - 120
Cadmium	50.0	51.0		ug/L		102	80 - 120
Chromium	200	191		ug/L		96	80 - 120
Copper	250	246		ug/L		98	80 - 120
Lead	500	506		ug/L		101	80 - 120
Manganese	500	486		ug/L		97	80 - 120
Nickel	500	501		ug/L		100	80 - 120
Selenium	500	531		ug/L		106	80 - 120
Silver	50.0	51.2		ug/L		102	80 - 120
Zinc	500	489		ug/L		98	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 180-219569/1-A
Matrix: Water
Analysis Batch: 219697

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 219569

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.065	ug/L		08/09/17 12:32	08/10/17 08:58	1

Lab Sample ID: LCS 180-219569/2-A
Matrix: Water
Analysis Batch: 219697

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 219569

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	2.50	2.59		ug/L		103	80 - 120

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 180-219480/1-A
Matrix: Solid
Analysis Batch: 219600

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 219480

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.033	0.0074	mg/Kg		08/08/17 17:30	08/09/17 11:20	1

Lab Sample ID: LCS 180-219480/2-A
Matrix: Solid
Analysis Batch: 219600

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 219480

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.417	0.456		mg/Kg		109	80 - 120

Method: 9014 - Cyanide

Lab Sample ID: MB 180-219684/4-A
Matrix: Solid
Analysis Batch: 219797

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 219684

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.50	0.15	mg/Kg		08/10/17 12:11	08/10/17 15:27	1

Lab Sample ID: HLCS 180-219684/2-A
Matrix: Solid
Analysis Batch: 219797

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 219684

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.250	0.236		mg/Kg		95	90 - 110

Lab Sample ID: LCS 180-219684/3-A
Matrix: Solid
Analysis Batch: 219797

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 219684

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	154	141		mg/Kg		91	38 - 162

Lab Sample ID: LLCS 180-219684/1-A
Matrix: Solid
Analysis Batch: 219797

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 219684

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.0500	0.0479		mg/Kg		96	90 - 110

Lab Sample ID: MB 180-219686/5-A
Matrix: Water
Analysis Batch: 219797

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 219686

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		10	3.3	ug/L		08/10/17 12:11	08/10/17 16:52	1

Lab Sample ID: HLCS 180-219686/2-A
Matrix: Water
Analysis Batch: 219797

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 219686

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	250	248		ug/L		99	90 - 110

Lab Sample ID: LCS 180-219686/3-A
Matrix: Water
Analysis Batch: 219797

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 219686

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	200	206		ug/L		103	85 - 115

Lab Sample ID: LCSD 180-219686/4-A
Matrix: Water
Analysis Batch: 219797

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 219686

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cyanide, Total	200	202		ug/L		101	85 - 115	2	20

QC Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68986-1

Lab Sample ID: LLCS 180-219686/1-A
Matrix: Water
Analysis Batch: 219797

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 219686

Analyte			Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cyanide, Total			50.0	49.3		ug/L		99	90 - 110		

QC Association Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68986-1

GC/MS VOA

Analysis Batch: 219248

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68986-7	W5-b, S5, A 08.04.17	Total/NA	Solid	8260C	219255
180-68986-8	W5-b, S5, B 08.04.17	Total/NA	Solid	8260C	219255
MB 180-219248/8	Method Blank	Total/NA	Solid	8260C	
LCS 180-219248/3	Lab Control Sample	Total/NA	Solid	8260C	
180-68986-7 MS	W5-b, S5, A 08.04.17	Total/NA	Solid	8260C	219255
180-68986-7 MSD	W5-b, S5, A 08.04.17	Total/NA	Solid	8260C	219255

Prep Batch: 219255

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68986-7	W5-b, S5, A 08.04.17	Total/NA	Solid	5035	
180-68986-8	W5-b, S5, B 08.04.17	Total/NA	Solid	5035	
180-68986-7 MS	W5-b, S5, A 08.04.17	Total/NA	Solid	5035	
180-68986-7 MSD	W5-b, S5, A 08.04.17	Total/NA	Solid	5035	

Analysis Batch: 219341

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68986-1	EQ BLK #1 08.03.17	Total/NA	Water	8260C	
180-68986-2	EQ BLK #2 08.04.17	Total/NA	Water	8260C	
180-68986-10	TRIP BLANK #1	Total/NA	Water	8260C	
180-68986-11	TRIP BLANK #2	Total/NA	Water	8260C	
MB 180-219341/5	Method Blank	Total/NA	Water	8260C	
LCS 180-219341/3	Lab Control Sample	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 219432

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68986-1	EQ BLK #1 08.03.17	Total/NA	Water	3520C	
180-68986-2	EQ BLK #2 08.04.17	Total/NA	Water	3520C	
MB 180-219432/1-A	Method Blank	Total/NA	Water	3520C	
LCS 180-219432/2-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 180-219432/3-A	Lab Control Sample Dup	Total/NA	Water	3520C	

Analysis Batch: 219660

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68986-1	EQ BLK #1 08.03.17	Total/NA	Water	8270D	219432
180-68986-2	EQ BLK #2 08.04.17	Total/NA	Water	8270D	219432
MB 180-219432/1-A	Method Blank	Total/NA	Water	8270D	219432
LCS 180-219432/2-A	Lab Control Sample	Total/NA	Water	8270D	219432
LCSD 180-219432/3-A	Lab Control Sample Dup	Total/NA	Water	8270D	219432

Prep Batch: 220050

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68986-9	W5-b, S5, C 08.04.17	Total/NA	Solid	3541	
MB 180-220050/1-A	Method Blank	Total/NA	Solid	3541	
LCS 180-220050/2-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 220091

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68986-9	W5-b, S5, C 08.04.17	Total/NA	Solid	8270D LL	220050

GC/MS Semi VOA (Continued)

Analysis Batch: 220091 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 180-220050/1-A	Method Blank	Total/NA	Solid	8270D LL	220050
LCS 180-220050/2-A	Lab Control Sample	Total/NA	Solid	8270D LL	220050

GC Semi VOA

Prep Batch: 219453

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68986-1	EQ BLK #1 08.03.17	Total/NA	Water	3510C	
180-68986-2	EQ BLK #2 08.04.17	Total/NA	Water	3510C	
MB 180-219453/1-A	Method Blank	Total/NA	Water	3510C	
LCS 180-219453/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 180-219453/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Cleanup Batch: 219502

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68986-1	EQ BLK #1 08.03.17	Total/NA	Water	3665A	219453
180-68986-2	EQ BLK #2 08.04.17	Total/NA	Water	3665A	219453

Cleanup Batch: 219504

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68986-1	EQ BLK #1 08.03.17	Total/NA	Water	3660B	219502
180-68986-2	EQ BLK #2 08.04.17	Total/NA	Water	3660B	219502

Analysis Batch: 219515

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68986-1	EQ BLK #1 08.03.17	Total/NA	Water	8082A	219504
180-68986-2	EQ BLK #2 08.04.17	Total/NA	Water	8082A	219504
MB 180-219453/1-A	Method Blank	Total/NA	Water	8082A	219453
LCS 180-219453/2-A	Lab Control Sample	Total/NA	Water	8082A	219453
LCSD 180-219453/3-A	Lab Control Sample Dup	Total/NA	Water	8082A	219453

Prep Batch: 220051

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68986-9	W5-b, S5, C 08.04.17	Total/NA	Solid	3541	
MB 180-220051/1-A	Method Blank	Total/NA	Solid	3541	
LCS 180-220051/4-A	Lab Control Sample	Total/NA	Solid	3541	
LCSD 180-220051/5-A	Lab Control Sample Dup	Total/NA	Solid	3541	

Analysis Batch: 220079

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 180-220051/1-A	Method Blank	Total/NA	Solid	8082A	220051
LCS 180-220051/4-A	Lab Control Sample	Total/NA	Solid	8082A	220051
LCSD 180-220051/5-A	Lab Control Sample Dup	Total/NA	Solid	8082A	220051

Cleanup Batch: 220101

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68986-9	W5-b, S5, C 08.04.17	Total/NA	Solid	3665A	220051

GC Semi VOA (Continued)

Cleanup Batch: 220102

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68986-9	W5-b, S5, C 08.04.17	Total/NA	Solid	3660B	220101

Analysis Batch: 220173

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68986-9	W5-b, S5, C 08.04.17	Total/NA	Solid	8082A	220102

Metals

Prep Batch: 219379

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68986-1	EQ BLK #1 08.03.17	Total Recoverable	Water	3005A	
180-68986-2	EQ BLK #2 08.04.17	Total Recoverable	Water	3005A	
MB 180-219379/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-219379/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Prep Batch: 219443

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68986-9	W5-b, S5, C 08.04.17	Total/NA	Solid	3050B	
MB 180-219443/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 180-219443/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Prep Batch: 219480

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68986-9	W5-b, S5, C 08.04.17	Total/NA	Solid	7471B	
MB 180-219480/1-A	Method Blank	Total/NA	Solid	7471B	
LCS 180-219480/2-A	Lab Control Sample	Total/NA	Solid	7471B	

Prep Batch: 219569

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68986-1	EQ BLK #1 08.03.17	Total/NA	Water	7470A	
180-68986-2	EQ BLK #2 08.04.17	Total/NA	Water	7470A	
MB 180-219569/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-219569/2-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 219600

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68986-9	W5-b, S5, C 08.04.17	Total/NA	Solid	7471B	219480
MB 180-219480/1-A	Method Blank	Total/NA	Solid	7471B	219480
LCS 180-219480/2-A	Lab Control Sample	Total/NA	Solid	7471B	219480

Analysis Batch: 219637

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68986-1	EQ BLK #1 08.03.17	Total Recoverable	Water	6010C	219379
180-68986-2	EQ BLK #2 08.04.17	Total Recoverable	Water	6010C	219379
MB 180-219379/1-A	Method Blank	Total Recoverable	Water	6010C	219379
LCS 180-219379/2-A	Lab Control Sample	Total Recoverable	Water	6010C	219379

Analysis Batch: 219697

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68986-1	EQ BLK #1 08.03.17	Total/NA	Water	7470A	219569

Metals (Continued)

Analysis Batch: 219697 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68986-2	EQ BLK #2 08.04.17	Total/NA	Water	7470A	219569
MB 180-219569/1-A	Method Blank	Total/NA	Water	7470A	219569
LCS 180-219569/2-A	Lab Control Sample	Total/NA	Water	7470A	219569

Analysis Batch: 219711

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68986-9	W5-b, S5, C 08.04.17	Total/NA	Solid	6010C	219443
MB 180-219443/1-A	Method Blank	Total/NA	Solid	6010C	219443
LCS 180-219443/2-A	Lab Control Sample	Total/NA	Solid	6010C	219443

General Chemistry

Analysis Batch: 219454

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68986-7	W5-b, S5, A 08.04.17	Total/NA	Solid	2540G	
180-68986-8	W5-b, S5, B 08.04.17	Total/NA	Solid	2540G	
180-68986-9	W5-b, S5, C 08.04.17	Total/NA	Solid	2540G	

Prep Batch: 219684

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68986-9	W5-b, S5, C 08.04.17	Total/NA	Solid	9010C	
MB 180-219684/4-A	Method Blank	Total/NA	Solid	9010C	
HLCS 180-219684/2-A	Lab Control Sample	Total/NA	Solid	9010C	
LCS 180-219684/3-A	Lab Control Sample	Total/NA	Solid	9010C	
LLCS 180-219684/1-A	Lab Control Sample	Total/NA	Solid	9010C	

Prep Batch: 219686

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68986-1	EQ BLK #1 08.03.17	Total/NA	Water	9010C	
180-68986-2	EQ BLK #2 08.04.17	Total/NA	Water	9010C	
MB 180-219686/5-A	Method Blank	Total/NA	Water	9010C	
HLCS 180-219686/2-A	Lab Control Sample	Total/NA	Water	9010C	
LCS 180-219686/3-A	Lab Control Sample	Total/NA	Water	9010C	
LCSD 180-219686/4-A	Lab Control Sample Dup	Total/NA	Water	9010C	
LLCS 180-219686/1-A	Lab Control Sample	Total/NA	Water	9010C	

Analysis Batch: 219797

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68986-1	EQ BLK #1 08.03.17	Total/NA	Water	9014	219686
180-68986-2	EQ BLK #2 08.04.17	Total/NA	Water	9014	219686
180-68986-9	W5-b, S5, C 08.04.17	Total/NA	Solid	9014	219684
MB 180-219684/4-A	Method Blank	Total/NA	Solid	9014	219684
MB 180-219686/5-A	Method Blank	Total/NA	Water	9014	219686
HLCS 180-219684/2-A	Lab Control Sample	Total/NA	Solid	9014	219684
HLCS 180-219686/2-A	Lab Control Sample	Total/NA	Water	9014	219686
LCS 180-219684/3-A	Lab Control Sample	Total/NA	Solid	9014	219684
LCS 180-219686/3-A	Lab Control Sample	Total/NA	Water	9014	219686
LCSD 180-219686/4-A	Lab Control Sample Dup	Total/NA	Water	9014	219686
LLCS 180-219684/1-A	Lab Control Sample	Total/NA	Solid	9014	219684
LLCS 180-219686/1-A	Lab Control Sample	Total/NA	Water	9014	219686

TestAmerica Pittsburgh
301 Alpha Drive RIDC Park
Pittsburgh, PA 15238
Phone (412) 963-7058 Fax (412) 963-2468

Chain of Custody Record

180-68986 Chain of Custody

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

OC No: ~~80-38494-8381.1~~
Page: Page 1 of 1
Job #:

Client Information	Sampler: Ellen Buelow	Lab PM: Dunlap, David A
Client Contact: Ashwin Ranna, Aron Krasnopoler	Phone: 412-552-4758	E-Mail: david.dunlap@testamericainc.com
Company: Geosyntec Consultants, Inc.		
Address: Penn Center West One, Suite 402 1 Penn Center West Drive	Due Date Requested:	
City: Pittsburgh	TAT Requested (days): 1 day TAT	
State, Zip: PA, 15276		
Phone:	PO #: MN0832B	
Email: aranna@geosyntec.com; akrasnopoler@geosyntec.com	WO #:	
Project Name: Former Sperry Remington Site - North IRM	Project #: 18013464	
Site: Elmira	SSOW#:	

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - VOA-Select List	6010C, 7471B, 9014 - Select ICP Metals, Mercury, Cyanide	8082A, 8270D, PCBs, Select BNA	8260C - VOA-Select List (Trip Blanks only)	TCLP RCRA METALS	TCLP SEMI VOA	TCLP VOC	PCBS	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	A						
EQ BLK #1 08.03.17	08.03.17	13:40	G	W ~~Solid~~	N	N	X	X	X		X	X	X		9	TRIP BLANK #1
EQ BLK #2 08.04.17	08.04.17	7:00	G	W ~~Solid~~	N	N	X	X	X		X	X	X		8	
WB1-2,S3,A 08.04.17	08.04.17	8:35	G	Solid	N	N							X		3	
WB1-2,S3,C 08.04.17	08.04.17	8:45	C	Solid	N	N					X	X		X	1	
WB1-2,S4,A 08.04.17	08.04.17	10:50	G	Solid	N	N							X		3	
WB1-2,S4,C 08.04.17	08.04.17	10:40	C	Solid	N	N					X	X		X	1	TRIP BLK #2
~~WB~~ WS-b,S5,A 08.04.17	08.04.17	10:55	G	Solid	N	Y	X								12	MS/MSD L4
WS-b,S5,B 08.04.17	08.04.17	11:05	G	Solid	N	N	X								4	
WS-b,S5,C 08.04.17	08.04.17	11:10	C	Solid	N	N		X	X						2	
TRIP BLANK #1	08.04.17	—	—	W ~~Solid~~						X					2	
TRIP BLANK #2	08.04.17	—	—	W Solid						X					2	

RUSH

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment: Fedex

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Ashwin Ranna	8-4-2017 / 1830	Geosyntec	[signature]	8-5-17	TAL
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 9:00	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks:

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 180-68986-1

Login Number: 68986
List Number: 1
Creator: Watson, Debbie

List Source: TestAmerica Pittsburgh

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	False	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Geosyntec consultants

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Memorandum

Date:	27 July 2017
To:	Aron Krasnopoler
From:	Mary Tyler
CC:	J. Caprio
Subject:	**Stage 2A Data Validation - Level II Data Deliverable, TestAmerica Job ID 180-68219-1**

SITE: Former Sperry Remington Site-North IRM

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of thirty-nine solid samples, including six samples for matrix spike/matrix spike duplicate (MS/MSD) analyses, four trip blanks and five field duplicate samples, collected July 13, 2017, as part of the Former Sperry Remington Site-North IRM project. The analyses were performed at TestAmerica Laboratories, Inc., Pittsburgh, Pennsylvania. The samples were analyzed for the following tests:

- Volatile Organic Compounds (VOCs) by EPA Methods 5035/8260C and 8260C
- Semivolatile Organic Compounds (SVOCs) by EPA Methods 3541/8270D
- Polychlorinated Biphenyls (PCBs) by EPA Methods 3541/8082A
- Metals by EPA Methods 3050B/6010C
- Mercury by EPA Method 7471B
- Total Cyanide by EPA Method 9014
- Total Solids by Standard Method 2540G

EXECUTIVE SUMMARY

The samples were handled, prepared, and measured in the same manner under similar prescribed conditions.

Overall, based on this Stage 2A data validation covering the quality control (QC) parameters listed below, the data as qualified are usable for meeting project objectives. Qualified data should be used within the limitations of the qualification.

The data were validated the Quality Assurance Project Plan (QAPP) for Former Sperry Remington Facility Industrial Outfall Site, Elmira, New York, NYSDEC Site I.D. # 808043, NY09-2480-04, July 7, 2010, Revised November 11, 2010, USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review, January 2017 (EPA 540-R-2017-002), USEPA Contract Laboratory Program National Functional Guidelines for Superfund Inorganic Methods Data Review, January 2017 (EPA 540-R-2017-001), the pertinent methods referenced by the laboratory report and professional and technical judgment.

The following samples were analyzed and validated at Stage 2A level in the data sets:

Laboratory ID	Client ID
180-68219-1	W6, S1, A 071317
180-68219-1 MS	W6, S1, A 071317MS
180-68219-1 MSD	W6, S1, A 071317MSD
180-68219-2	W6, S1, B 071317
180-68219-3	W6, S1, C 071317
180-68219-3 MS	W6, S1, C 071317MS
180-68219-3 MSD	W6, S1, C 071317MSD
180-68219-4	W6, S2, A 071317
180-68219-5	W6, S2, B 071317
180-68219-6	W6, S2, C 071317
180-68219-7	W6, S3, A 071317
180-68219-8	W6, S3, B 071317
180-68219-9	W6, S3, C 071317
180-68219-10	W6, S4, A 071317
180-68219-11	W6, S4, B 071317
180-68219-12	W6, S4, C 071317
180-68219-12 MS	W6, S4, C 071317MS
180-68219-12 MSD	W6, S4, C 071317MSD
180-68219-13	W6, S5, A 071317
180-68219-14	W6, S5, B 071317
180-68219-15	W6, S5, C 071317
180-68219-16	W7, S5, A 71317
180-68219-17	W7, S5, B 71317
180-68219-18	W7, S5, C 71317
180-68219-19	W7, S4, A 71317
180-68219-20	W7, S4, B 71317
180-68219-21	W7, S4, C 71317
180-68219-21 MS	W7, S4, C 71317MS
180-68219-21 MSD	W7, S4, C 71317MSD
180-68219-22	W7, S3, A 71317

Laboratory ID	Client ID
180-68219-23	W7, S3, B 71317
180-68219-24	W7, S3, C 71317
180-68219-25	W7, S2, A 71317
180-68219-26	W7, S2, B 71317
180-68219-27	W7, S2, C 71317
180-68219-28	W7, S1, A 71317
180-68219-29	W7, S1, B 71317
180-68219-30	W7, S1, C 71317
180-68219-30 MS	W7, S1, C 71317MS
180-68219-30 MSD	W7, S1, C 71317MSD
180-68219-31	W8, S1, A 71317
180-68219-32	W8, S1, B 71317
180-68219-33	W8, S1, C 71317
180-68219-34	W8, S2, A 71317
180-68219-35	W8, S2, B 71317
180-68219-36	W8, S2, C 71317
180-68219-37	W8, S3, A 71317
180-68219-38	W8, S3, B 71317
180-68219-38 MS	W8, S3, B 71317MS
180-68219-38 MSD	W8, S3, B 71317MSD
180-68219-39	W8, S3, C 71317
180-68219-50	DUP-11
180-68219-51	DUP-12
180-68219-52	DUP-13
180-68219-53	DUP-9
180-68219-54	DUP-10
180-68219-55	TRIP BLANK 1
180-68219-56	TRIP BLANK 2
180-68219-57	TRIP BLANK 3
180-68219-58	TRIP BLANK 4

The samples were received at the laboratory at 2.4-4.8^{o}C, within the criteria of 0-6°C. No sample preservation issues were noted by the laboratory.

The following issues were noted with the chain of custody (COC):

- Incorrect error corrections were observed on the COC, instead of the proper procedure of a single strike through, correction, and initials and date of person making the corrections.
- No collection times were listed on the COC for the field duplicate samples; the laboratory assigned collection times of 00:00.
- TRIP BLANK 4 was received, but not listed on the COC.
- The container labels for the MS/MSD aliquots of sample W4, S4, A 71317 had collection times of 15:45, whereas the COC listed 15:15, the same collection time as the parent sample.

The results for the other samples listed on the COC were reported in laboratory report 180-68219-2.

The solids data, used to report the samples on a dry weight basis, were not validated.

1.0 VOLATILE ORGANIC COMPOUNDS

The samples were analyzed for VOCs by EPA methods 5035/8260C and 8260C.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

⊗ Overall Assessment
✓ Holding Times
✓ Method Blank
✓ Matrix Spike/Matrix Spike Duplicate
✓ Laboratory Control Sample
✓ Surrogates
✓ Trip Blank
✓ Field Duplicate
✓ Sensitivity
✓ Electronic Data Deliverable Review

1.1 Overall Assessment

The VOC data reported in this package are considered usable for meeting project objectives. The analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this package is 100%.

The narrative indicated that the continuing calibration verification (CCV) percent difference (%D) for vinyl chloride was high, outside method specified acceptance criteria in batch 217322 with a high bias. The %D was 23.8%. Since the %D was within the validation guidance acceptance criteria of 25%D, no qualifications were applied to the data.

The CCV %D for carbon tetrachloride was high, outside method specified acceptance criteria in batch 217610 with a low bias. The %D was 21.4%. Since the %D was within the validation guidance acceptance criteria of 25%D, no qualifications were applied to the data.

The CCV %Ds for n-butylbenzene and vinyl chloride were high, outside method specified acceptance criteria in batch 217455 with high biases. The %Ds were 21.1%D and 36.7%, respectively. Since these two compounds were not detected in the associated samples, no qualifications were applied to the data. In addition, the CCV %D for carbon tetrachloride was high, outside method specified acceptance criteria in batch 217455 with a low bias. The %D was 25.8%. Therefore, since the %D was outside both the method and validation acceptance criteria, the nondetect carbon tetrachloride results in the associated samples were UJ qualified as estimated less than the method detection limits (MDLs).

Sample	Compound	Laboratory Result (µg/L)	Laboratory Flag	Validation Result (µg/L)	Validation Qualifier*	Reason Code**
TRIP BLANK 1	Carbon tetrachloride	0.56	U	0.56	UJ	9
TRIP BLANK 2	Carbon tetrachloride	0.56	U	0.56	UJ	9
TRIP BLANK 3	Carbon tetrachloride	0.56	U	0.56	UJ	9
TRIP BLANK 4	Carbon tetrachloride	0.56	U	0.56	UJ	9

µg/L -micrograms per liter
U-not detected at or above the MDL
* Validation qualifiers are defined in Attachment 1 at the end of this report
**Reason codes are defined in Attachment 2 at the end of this report

1.2 Holding Times

The holding time for the VOC analysis of a preserved solid sample collected as a terracore is 48 hours until laboratory receipt and 14 days from sample collection to analysis. The holding time for the VOC analysis of a preserved water sample is 14 days from sample collection to analysis. The holding times were met for the sample analyses.

1.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Five method blanks were reported (batches 217455, 217209, 217322, 217471 and 217610). VOCs were not detected in the method blanks above the MDLs.

1.4 Matrix Spike/Matrix Spike Duplicate

Two sample set specific MS/MSD pairs were reported, using samples W8, S3, B 71317 and W7, S4, C 71317. The recovery and relative percent difference (RPD) results were within the laboratory specified acceptance criteria, with the following exceptions.

The RPDs for the following compounds were high and outside the laboratory specified acceptance criteria in the MS/MSD pair using sample W8, S3, B 71317. Since these compounds were not detected in sample W8, S3, B 71317, no qualifications were applied to the data.

1,2,4-Trimethylbenzene	Chlorobenzene	Tetrachloroethene
1,4-Dichlorobenzene	Ethylbenzene	Toluene
Benzene	N-Propylbenzene	Xylenes, Total

1.5 Laboratory Control Sample (LCS)

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Four LCSs and one LCS/laboratory control sample duplicate (LCSD) pair were reported. The recovery and RPD results were within the laboratory specified acceptance criteria.

1.6 Surrogates

Acceptable surrogate recoveries were reported.

1.7 Trip Blank

Four trip blanks accompanied the samples, TRIP BLANK 1, TRIP BLANK 2, TRIP BLANK 3 and TRIP BLANK 4. VOCs were not detected in the trip blanks above the MDLs, with the following exceptions.

Acetone was detected in each trip blank at an estimated concentration greater than the MDL and less than the reporting limit (RL). Since acetone was not detected in the associated samples, no qualifications were applied to the data.

1.8 Field Duplicate

Five field duplicates were collected with the sample set. Four field duplicates were analyzed for VOCs, DUP-9, DUP-11, DUP-12 and DUP-13. Acceptable precision (RPD <40% for results greater than five times the RL and ±2 times the RL for results less than five times the RL) was demonstrated between the field duplicates and the original samples, W6, S3, B71317, W7, S4, B71317, W8, S1, B71317 and W4, S2, A71317. The RPDs between the results were 0%. It was noted that the results for sample W4, S2, A71317 were reported in laboratory report 180-68219-2.

1.9 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were not reported.

1.10 Electronic Data Deliverable (EDD) Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

2.0 SEMIVOLATILE ORGANIC COMPOUNDS

The samples were analyzed for SVOCs by EPA methods 3541/8270D.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

✓ Overall Assessment
✓ Holding Times

✓ Method Blank
⊗ Matrix Spike/Matrix Spike Duplicate
✓ Laboratory Control Sample
✓ Surrogates
⊗ Field Duplicate
✓ Sensitivity
✓ Electronic Data Deliverable Review

2.1 Overall Assessment

The SVOC data reported in this package are considered usable for meeting project objectives. The analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this package is 100%.

The concentrations of fluoranthene and pyrene in the 1:2 dilution of sample W8, S3, C 71317 were flagged with E, indicating the results exceeded the calibration ranges. The sample was reanalyzed at a 1:10 dilution and the concentrations of fluoranthene and pyrene were within the calibration ranges for this dilution. Therefore, based on professional and technical judgment, the 1:10 dilution results for fluoranthene and pyrene sample W8, S3, C 71317 are the usable results. The 1:2 dilution results for the other SVOCs in this sample are the usable results. The usability of the data was indicated in the "reportable result" column of the EDD with qualifiers file.

2.2 Holding Times

The holding times for SVOC analysis of solid samples are 14 days from sample collection to extraction and 40 days from extraction to analysis. The holding times were met for the sample analyses.

2.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Three method blanks were reported (batches 217139, 217195 and 217309). SVOCs were not detected in the method blanks above the MDLs.

2.4 Matrix Spike/Matrix Spike Duplicate

Two sample set specific MS/MSD pairs were reported, using samples W6, S1, C 071317 and W6, S4, C 071317. The recovery and RPD results were within the laboratory specified acceptance criteria, with the following exceptions.

One or both of the recoveries of the following compounds were low and outside the laboratory specified acceptance criteria in the MS/MSD pair using sample W6, S1, C 071317: Benzo[b]fluoranthene, fluoranthene, pentachlorophenol, phenanthrene and pyrene. In addition, the MS recovery and RPD of benzo[g,h,i]perylene were high, as were the RPDs for anthracene, benzo[a]anthracene, benzo[a]pyrene, chrysene, benzo[b]fluoranthene, fluoranthene, phenanthrene and pyrene. Therefore, the concentrations of anthracene, benzo[a]anthracene, benzo[a]pyrene, benzo[g,h,i]perylene, chrysene, benzo[b]fluoranthene, fluoranthene, phenanthrene and pyrene in sample W6, S1, C 071317 were J qualified as estimated and the nondetect pentachlorophenol result was UJ qualified as estimated less than the MDL.

Sample	Compound	Laboratory Result (mg/kg)	Laboratory Flag	Validation Result (mg/kg)	Validation Qualifier	Reason Code
W6, S1, C 071317	Anthracene	0.17	F2	0.17	J	4
W6, S1, C 071317	Benzo[a]anthracene	0.48	F2	0.48	J	4
W6, S1, C 071317	Benzo[a]pyrene	0.46	F2	0.46	J	4
W6, S1, C 071317	Benzo[b]fluoranthene	0.55	F1,F2	0.55	J	4
W6, S1, C 071317	Benzo[g,h,i]perylene	0.49	F1,F2	0.49	J	4
W6, S1, C 071317	Chrysene	0.46	F2	0.46	J	4
W6, S1, C 071317	Fluoranthene	0.94	F1,F2	0.94	J	4
W6, S1, C 071317	Pentachlorophenol	0.20	U,F1	0.20	UJ	4
W6, S1, C 071317	Phenanthrene	0.37	F1,F2	0.37	J	4
W6, S1, C 071317	Pyrene	0.69	F1,F2	0.69	J	4

mg/kg-milligrams per kilogram
F1-laboratory flag indicating the MS and/or MSD recovery is outside acceptance limits
F2- laboratory flag indicating the MS and/or MSD RPD is outside acceptance limits
U-not detected at or above the MDL

2.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two LCSs and one LCS/LCSD pair were reported. The recovery and RPD results were within the laboratory specified acceptance criteria.

2.6 Surrogates

Acceptable surrogate recoveries were reported.

2.7 Field Duplicate

Five field duplicates were collected with the sample set. One field duplicate was analyzed for SVOCs, DUP-10. Acceptable precision (RPD <40% for results greater than five times the RL and ±2 times the RL for results less than five times the RL) was demonstrated between the field duplicate and the original sample, W6, S3, C 071317, with the following exceptions.

The field duplicate acceptance criteria were not met for benzo[a]anthracene, benzo[a]pyrene, benzo[b]fluoranthene and chrysene. Therefore, based on professional and technical judgment, the concentrations of benzo[a]anthracene, benzo[a]pyrene, benzo[b]fluoranthene and chrysene in the field duplicate pair were J qualified as estimated. The qualifications due to the field duplicate results are summarized below.

Sample	Compound	Laboratory Result (mg/kg)	Laboratory Flag	RPD	Validation Result (mg/kg)	Validation Qualifier	Reason Code
DUP-10	Benzo[a]anthracene	0.18	NA	56	0.18	J	7
W6, S3, C 071317	Benzo[a]anthracene	0.32	NA		0.32	J	7
DUP-10	Benzo[a]pyrene	0.19	NA	54	0.19	J	7
W6, S3, C 071317	Benzo[a]pyrene	0.33	NA		0.33	J	7
DUP-10	Benzo[b]fluoranthene	0.21	NA	58	0.21	J	7
W6, S3, C 071317	Benzo[b]fluoranthene	0.38	NA		0.38	J	7
DUP-10	Chrysene	0.18	NA	53	0.18	J	7
W6, S3, C 071317	Chrysene	0.31	NA		0.31	J	7

mg/kg-milligrams per kilogram
NA-not applicable

2.8 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were reported due to the dilutions analyzed.

2.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II reports and the EDDs.

3.0 POLYCHLORINATED BIPHENYLS

The samples were analyzed for PCBs by EPA Methods 3541/8082A.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

⊗ Overall Assessment
✓ Holding Times
✓ Method Blank
✓ Matrix Spike/Matrix Spike Duplicate
✓ Laboratory Control Sample
✓ Surrogates
✓ Field Duplicate
✓ Sensitivity
✓ Electronic Data Deliverable Review

3.1 Overall Assessment

The PCB data reported in this package are considered usable for meeting project objectives. The analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this sample set is 100%.

The samples contain mixtures of PCBs 1248, 1254 and 1260. There are peaks in 1248 and 1254 that are in both of these PCBs and peaks in 1254 and 1260 that are in both of these PCBs; therefore, there is contribution between PCBs when more than one PCB is detected in a sample. Therefore, based on professional and technical judgment, the concentrations of PCBs PCBs 1248, 1254 and 1260 in these samples were J qualified as estimated.

Sample ID	Compound	Laboratory Concentration (mg/kg)	Laboratory Flag	Validation Concentration (mg/kg)	Validation Qualifier	Reason Code
DUP-10	PCB-1248	1.5	NA	1.5	J	13
DUP-10	PCB-1254	0.60	NA	0.60	J	13
DUP-10	PCB-1260	0.23	NA	0.23	J	13
W6, S1, C 071317	PCB-1248	0.80	NA	0.80	J	13
W6, S1, C 071317	PCB-1254	0.47	NA	0.47	J	13
W6, S1, C 071317	PCB-1260	0.15	NA	0.15	J	13
W6, S2, C 071317	PCB-1248	1.8	NA	1.8	J	13
W6, S2, C 071317	PCB-1254	0.76	NA	0.76	J	13
W6, S2, C 071317	PCB-1260	0.33	NA	0.33	J	13
W6, S3, C 071317	PCB-1248	1.2	NA	1.2	J	13
W6, S3, C 071317	PCB-1254	0.55	NA	0.55	J	13
W6, S3, C 071317	PCB-1260	0.23	NA	0.23	J	13
W6, S4, C 071317	PCB-1248	1.5	NA	1.5	J	13
W6, S4, C 071317	PCB-1254	0.60	NA	0.60	J	13
W6, S4, C 071317	PCB-1260	0.22	NA	0.22	J	13
W6, S5, C 071317	PCB-1248	1.1	NA	1.1	J	13
W6, S5, C 071317	PCB-1254	0.35	NA	0.35	J	13
W6, S5, C 071317	PCB-1260	0.13	NA	0.13	J	13
W7, S1, C 71317	PCB-1248	1.1	NA	1.1	J	13
W7, S1, C 71317	PCB-1254	0.42	NA	0.42	J	13
W7, S1, C 71317	PCB-1260	0.17	NA	0.17	J	13
W7, S2, C 71317	PCB-1248	1.5	NA	1.5	J	13
W7, S2, C 71317	PCB-1254	0.53	NA	0.53	J	13
W7, S2, C 71317	PCB-1260	0.19	NA	0.19	J	13
W7, S3, C 71317	PCB-1248	0.50	NA	0.50	J	13
W7, S3, C 71317	PCB-1254	0.24	NA	0.24	J	13
W7, S3, C 71317	PCB-1260	0.092	NA	0.092	J	13
W7, S4, C 71317	PCB-1248	0.69	NA	0.69	J	13
W7, S4, C 71317	PCB-1254	0.36	NA	0.36	J	13
W7, S4, C 71317	PCB-1260	0.099	NA	0.099	J	13
W7, S5, C 71317	PCB-1248	0.24	NA	0.24	J	13
W7, S5, C 71317	PCB-1254	0.12	NA	0.12	J	13
W7, S5, C 71317	PCB-1260	0.047	NA	0.047	J	13
W8, S1, C 71317	PCB-1248	0.63	NA	0.63	J	13
W8, S1, C 71317	PCB-1254	0.32	NA	0.32	J	13

Sample ID	Compound	Laboratory Concentration (mg/kg)	Laboratory Flag	Validation Concentration (mg/kg)	Validation Qualifier	Reason Code
W8, S1, C 71317	PCB-1260	0.16	NA	0.16	J	13
W8, S2, C 71317	PCB-1248	0.48	NA	0.48	J	13
W8, S2, C 71317	PCB-1254	0.29	NA	0.29	J	13
W8, S2, C 71317	PCB-1260	0.11	NA	0.11	J	13
W8, S3, C 71317	PCB-1248	0.17	NA	0.17	J	13
W8, S3, C 71317	PCB-1254	0.079	NA	0.079	J	13
W8, S3, C 71317	PCB-1260	0.030	NA	0.030	J	13

mg/kg-milligrams per kilogram
NA-not applicable

3.2 Holding Times

The holding times for the PCB analysis of solids are 14 days from sample collection to extraction and 40 days from extraction to analysis. The holding times were met for the sample analyses.

3.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two method blanks were reported (batches 217194 and 217313). PCBs were not detected in the method blanks above the MDLs.

3.4 Matrix Spike/Matrix Spike Duplicate

MS/MSD pairs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two sample set specific MS/MSD pairs were reported, using samples W6, S1, C 071317 and W7, S4, C 71317. The recovery and RPD results were within the laboratory specified acceptance criteria.

3.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two LCSs were reported. The recovery results were within the laboratory specified acceptance criteria.

3.6 Surrogates

Acceptable surrogate recoveries were reported.

3.7 Field Duplicate

Five field duplicates were collected with the sample set. One field duplicate was analyzed for PCBs, DUP-10. Acceptable precision (RPD <40% for results greater than five times the RL and ±2 times the RL for results less than five times the RL) was demonstrated between the field duplicate and the original sample, W6, S3, C 071317.

3.8 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were not reported.

3.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No other discrepancies were identified between the level II report and the EDD.

5.0 METALS

The samples were analyzed for metals by EPA methods 3050B/6010C (Mercury evaluated separately in Section 6.0, below).

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

✓ Overall Assessment
✓ Holding Times
✓ Method Blank
✓ Matrix Spike/Matrix Spike Duplicate
✓ Laboratory Control Sample
✓ Laboratory Duplicate
⊗ Field Duplicate
✓ Sensitivity
✓ Electronic Data Deliverable Review

5.1 Overall Assessment

The metals data reported in this package are considered usable for meeting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid

analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this package is 100%.

5.2 Holding Times

The holding time for metals analysis of solid samples is 180 days from sample collection to analysis. The holding times were met for the sample analyses.

5.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 217374). The metals were not detected in the method blank above the MDLs.

5.4 Matrix Spike/Matrix Spike Duplicate

MS/MSD pairs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). A sample set specific MS/MSD pair was reported, using sample W6, S1, C 071317. The recovery and RPD results were within the laboratory specified acceptance criteria.

5.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery results were within the laboratory specified acceptance criteria.

5.6 Laboratory Duplicate

A laboratory duplicate was not reported with the sample set.

5.7 Field Duplicate

Five field duplicates were collected with the sample set. One field duplicate was analyzed for metals, DUP-10. Acceptable precision (RPD <40% for results greater than five times the RL and ±2 times the RL for results less than five times the RL) was demonstrated between the field duplicate and the original sample, W6, S3, C 071317, with the following exceptions.

The field duplicate acceptance criteria were not met for arsenic, barium, chromium, manganese, nickel and zinc. Therefore, the concentrations of these metals in the field duplicate pair were J qualified as estimated.

The qualifications due to the field duplicate assessment are summarized below.

Sample ID	Compound	Laboratory Concentration (mg/kg)	Laboratory Flag	RPD	Validation Concentration (mg/kg)	Validation Qualifier	Reason Code
DUP-10	Arsenic	4.4	NA	93	4.4	J	7
W6, S3, C 071317	Arsenic	12	NA		12	J	7
DUP-10	Barium	42	NA	80	42	J	7
W6, S3, C 071317	Barium	99	NA		99	J	7
DUP-10	Chromium	7.5	NA	45	7.5	J	7
W6, S3, C 071317	Chromium	12	NA		12	J	7
DUP-10	Manganese	270	NA	62	270	J	7
W6, S3, C 071317	Manganese	510	NA		510	J	7
DUP-10	Nickel	13	NA	51	13	J	7
W6, S3, C 071317	Nickel	22	NA		22	J	7
DUP-10	Zinc	47	NA	47	47	J	7
W6, S3, C 071317	Zinc	76	NA		76	J	7

mg/kg-milligrams per kilogram
NA-not applicable

5.8 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were not reported.

5.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

6.0 MERCURY

The samples were analyzed for mercury by EPA methods 7471B.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues

were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ⊗ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ⊗ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

6.1 Overall Assessment

The mercury data reported in this package are considered usable for meeting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this package is 100%.

6.2 Holding Times

The holding time for the mercury analysis of solid samples is 28 days from sample collection to analysis. The holding times were met for the sample analyses.

6.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 217423). Mercury was not detected in the method blank above the MDL.

6.4 Matrix Spike/Matrix Spike Duplicate

MS/MSD pairs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). A sample set specific MS/MSD pair was reported, using sample W6, S1, C 071317. The recovery result was within the laboratory specified acceptance criteria, but the RPD was high and outside the laboratory specified acceptance criteria. Therefore, the concentration of mercury in sample W6, S1, C 071317 was J qualified as estimated.

Sample ID	Compound	Laboratory Concentration (mg/kg)	Laboratory Flag	Validation Concentration (mg/kg)	Validation Qualifier	Reason Code
W6, S1, C 071317	Mercury	0.12	F2	0.12	J	4

mg/kg-milligrams per kilogram
F2- laboratory flag indicating the MS and/or MSD RPD is outside acceptance limits

6.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery result was within the laboratory specified acceptance criteria.

6.6 Laboratory Duplicate

A laboratory duplicate was not reported.

6.7 Field Duplicate

Five field duplicates were collected with the sample set. One field duplicate was analyzed for mercury, DUP-10. Acceptable precision (RPD <40% for results greater than five times the RL and ±2 times the RL for results less than five times the RL) was demonstrated between the field duplicate and the original sample, W6, S3, C 071317.

6.8 Sensitivity

The samples were reported to the MDL. Elevated non-detect results were not reported.

6.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

7.0 TOTAL CYANIDE

The samples were analyzed for total cyanide by EPA Methods 9014.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Equipment Blank
- ✓ Sensitivity
- ✓ Electronic Data Deliverables Review

7.1 Overall Assessment

The cyanide data reported in this package are considered usable for meeting project objectives. The analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this package is 100%.

7.2 Holding Times

The holding time for the cyanide analysis of solid samples is 14 days from sample collection to analysis. The holding times were met for the sample analyses.

7.3 Method Blanks

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two method blanks were reported (batches 217382 and 217386). Cyanide was not detected in the method blanks above the MDL.

7.4 Matrix Spike

MS/MSD pairs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two sample set specific MS/MSD pairs were reported, using samples W6, S1, C 071317 and W7, S1, C 71317. The recovery and RPD results were within the laboratory specified acceptance criteria.

7.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Six LCSs were reported. The recovery results were within the laboratory specified acceptance criteria.

7.6 Laboratory Duplicate

A laboratory duplicate was not reported.

7.7 Field Duplicate

Five field duplicates were collected with the sample set. One field duplicate was analyzed for cyanide, DUP-10. Acceptable precision (RPD <40% for results greater than five times the RL and ±2 times the RL for results less than five times the RL) was demonstrated between the field duplicate and the original sample, W6, S3, C 071317.

7.8 Sensitivity

The samples were reported to the MDL. Elevated non-detect results were not reported.

7.9 Electronic Data Deliverables Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

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ATTACHMENT 1
DATA VALIDATION QUALIFIER DEFINITIONS AND INTERPRETATION KEY
Assigned by Geosyntec's Data Validation Team

DATA QUALIFIER DEFINITIONS

U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

J+ The analyte was positively identified; however, the associated numerical value is likely to be higher that the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.

J- The analyte was positively identified; however, the associated numerical value is likely to be lower that the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ATTACHMENT 2
DATA VALIDATION REASON CODES
Assigned by Geosyntec's Data Validation Team

Valid Value	Description
1	Preservation requirement not met
2	Analysis holding time exceeded
3	Blank contamination (i.e., method, trip, equipment, etc.)
4	Matrix spike/matrix spike duplicate recovery or RPD outside limits
5	LCS recovery outside limits
6	Surrogate recovery outside limits
7	Field Duplicate RPD exceeded
8	Serial dilution percent difference exceeded
9	Calibration criteria not met
10	Linear range exceeded
11	Internal standard criteria not met
12	Lab duplicates RPD exceeded
13	Other

RPD-relative percent difference

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Memorandum

Date:	14 August 2017
To:	Aron Krasnopoler
From:	Chris Pracheil
CC:	J. Caprio
Subject:	**Stage 2A Data Validation - Level II Data Deliverable, TestAmerica Job ID # 180-68509-1**

SITE: Former Sperry Remington Site-North IRM

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of fifteen solid samples, two field duplicate samples, and one trip blank, collected July 24, 2017, as part of the Former Sperry Remington Site-North IRM project. The analyses were performed at TestAmerica Laboratories, Inc., Pittsburgh, Pennsylvania. The samples were analyzed for the following tests:

- Volatile Organic Compounds (VOCs) by EPA Methods 8260C and 5035/8260C
- Semivolatile Organic Compounds (SVOCs) by EPA Methods 3541/8270D
- Polychlorinated Biphenyls (PCBs) by EPA Methods 3541/8082A
- Metals by EPA Methods 3050B/6010C
- Mercury by EPA Method 7471B
- Total Cyanide by EPA Methods 9010C/9014
- Total Solids by Standard Method 2540G

EXECUTIVE SUMMARY

The samples were handled, prepared, and measured in the same manner under similar prescribed conditions.

Overall, based on this Stage 2A data validation covering the quality control (QC) parameters listed below, the data are usable for meeting project objectives. Qualified data should be used within the limitations of the qualification.

The data were validated the Quality Assurance Project Plan (QAPP) for Former Sperry Remington Facility Industrial Outfall Site, Elmira, New York, NYSDEC Site I.D. # 808043, NY09-2480-04,

July 7, 2010, Revised November 11, 2010, USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review, January 2017 (EPA 540-R-2017-002), USEPA Contract Laboratory Program National Functional Guidelines for Superfund Inorganic Methods Data Review, January 2017 (EPA 540-R-2017-001), the pertinent methods referenced by the laboratory report and professional and technical judgment.

The following samples were analyzed and validated at Stage 2A level in the data set:

Laboratory ID	Client ID
180-68509-1	WB 7-8, S1, A 072417
180-68509-2	WB 7-8, S1, B 072417
180-68509-3	WB 7-8, S1, C 072417
180-68509-4	WB 7-8, S2, A 072417
180-68509-5	WB 7-8, S2, B 072417
180-68509-6	WB 7-8, S2, C 072417
180-68509-7	WB 7-8, S3, A 072417
180-68509-8	WB 7-8, S3, B 072417
180-68509-9	WB 7-8, S3, C 072417

Laboratory ID	Client ID
180-68509-10	WB 7-8, S4, A 072417
180-68509-11	WB 7-8, S4, B 072417
180-68509-12	WB 7-8, S4, C 072417
180-68509-13	W9, S1, A 072417
180-68509-14	W9, S1, B 072417
180-68509-15	W9, S1, C 072417
180-68509-22	TRIP BLANK
180-68509-23	DUP 15
180-68509-24	DUP 14

The samples were received at the laboratory at 2.6ºC, 4.1ºC and 4.4ºC within the criteria of 0-6ºC. No sample preservation issues were noted by the laboratory.

The following sample receiving issues were noted:

- Incorrect error corrections were observed on the chain of custody (COC), instead of the proper procedure of a single strike through, correction, and initials and date of person making the corrections.

- Sample collection times were not documented on the COC for field duplicate samples DUP 15 and DUP 14. The laboratory assigned collection times of 00:00. In addition, no sample collection dates or times were documented on the COC for the trip blank. The laboratory assigned collection date and time of 7/24/17, 00:00.

- Samples W9, S2, C 072417; W9, S3, C 072417; W9, S4, C 072417; W9, S2, A 072417; W9, S3, A 072417; W9, S4, A 072417 and DUP 16 were listed on the COC and reported in laboratory report 180-68509-2.

The solids data, used to report the samples on a dry weight basis, were not validated.

1.0 VOLATILE ORGANIC COMPOUNDS

The samples were analyzed for VOCs by EPA methods 8260C and 5035/8260B.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Surrogates
- ✓ Trip Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

1.1 Overall Assessment

The VOC data reported in this package are considered usable for meeting project objectives. The analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this package is 100%.

1.2 Holding Times

The holding times for the VOC analysis of a solid sample collected using a Terracore are 48 hours from collection to laboratory receipt and 14 days from sample collection to analysis. The holding times were met for the sample analyses.

1.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Three method blanks were reported (batches 218093, 218110 and 218236). VOCs were not detected in the method blank above the method detection limits (MDLs).

1.4 Matrix Spike/Matrix Spike Duplicate (MS/MSD)

MS/MSD pairs were not reported with the sample set.

1.5 Laboratory Control Sample (LCS)

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Three LCSs were reported. The recovery results were within the laboratory specified acceptance criteria.

1.6 Surrogates

Acceptable surrogate recoveries were reported.

1.7 Trip Blank

One trip blank, TRIP BLANK, accompanied the samples. VOCs were not detected in the trip blank above the MDLs.

1.8 Field Duplicate

Two field duplicates were collected with the sample set. One field duplicate was analyzed for VOCs, DUP 15. Acceptable precision [relative percent difference (RPD) <40% for results greater than five times the reporting limit (RL) and ±2 times the RL for results less than five times the RL] was demonstrated between the field duplicate and the original sample, W9, S1, A 072417.

1.9 Sensitivity

The samples were reported to the MDLs. No elevated non-detect results were reported.

The MDLs were at or below the NYSDEC DER10 App 5 Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010.

1.10 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The sample date and time was added to the sample IDs in the EDD and was not add to the sample IDs in the laboratory report. No other discrepancies were identified between the level II report and the EDD.

2.0 SEMIVOLATILE ORGANIC COMPOUNDS

The samples were analyzed for SVOCs by EPA methods 3541/8270D.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Surrogates
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

2.1 Overall Assessment

The SVOC data reported in this package are considered usable for meeting project objectives. The analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this package is 100%.

2.2 Holding Times

The holding times for SVOC analysis of solid samples are 14 days from sample collection to extraction and 40 days from extraction to analysis. The holding times were met for the sample analyses.

2.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 218278). SVOCs were not detected in the method blank above the MDLs.

2.4 Matrix Spike/Matrix Spike Duplicate

MS/MSD pairs were not reported with the sample set.

2.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery results were within the laboratory specified acceptance criteria.

2.6 Surrogates

Acceptable surrogate recoveries were reported.

2.7 Field Duplicate

Two field duplicates were collected with the sample set. One field duplicate was analyzed for SVOCs, DUP 14. Acceptable precision (RPD <40% for results greater than five times the RL and ±2 times the RL for results less than five times the RL) was demonstrated between the field duplicate and the original sample, WB 7-8, S4, C 072417.

2.8 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were reported for samples W9, S1, C 072417, WB 7-8, S2, C 072417 and DUP 14 due to the dilutions analyzed.

The MDLs were at or below the NYSDEC DER10 App 5 Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010 listed in the EDD. It was noted that no NYSDEC DER10 App 5 Constituent Levels for Imported Fill were listed for the following compounds:

2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dinitrotoluene
2-Methylphenol
Dibenzofuran
Hexachlorobenzene

Hexachlorobutadiene
Hexachloroethane
Methylphenol, 3 & 4
Nitrobenzene
Pyridine

2.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The sample date and time was added to the sample IDs in the EDD and was not add to the sample IDs in the laboratory report. No other discrepancies were identified between the level II report and the EDD.

3.0 POLYCHLORINATED BIPHENYLS

The samples were analyzed for PCBs by EPA Methods 3541/8082A.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

⊗ Overall Assessment
✓ Holding Times
✓ Method Blank
✓ Matrix Spike/Matrix Spike Duplicate
✓ Laboratory Control Sample
✓ Surrogates
✓ Field Duplicate
✓ Sensitivity
✓ Electronic Data Deliverable Review

3.1 Overall Assessment

The PCB data reported in this data set are considered usable for meeting project objectives. The analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this data set is 100%.

The samples contain mixtures of PCBs 1248, 1254 and 1260 and PCBs 1248 and 1254. There are peaks in 1248 and 1254 that are in both of these PCBs and peaks in 1254 and 1260 that are in both of these PCBs; therefore, there is contribution between PCBs when more than one PCB is detected in a sample. Therefore, based on professional and technical judgment, the concentrations of PCBs 1248, 1254 and 1260 in these samples were J qualified as estimated.

Sample ID	Compound	Laboratory Concentration (mg/kg)	Laboratory Flag	Validation Concentration (mg/kg)	Validation Qualifier*	Reason Code**
DUP 14	PCB-1248	1.5	NA	1.5	J	13
DUP 14	PCB-1254	0.48	NA	0.48	J	13
DUP 14	PCB-1260	0.043	NA	0.043	J	13
W9, S1, C 072417	PCB-1248	0.15	NA	0.15	J	13
W9, S1, C 072417	PCB-1254	0.053	NA	0.053	J	13

Sample ID	Compound	Laboratory Concentration (mg/kg)	Laboratory Flag	Validation Concentration (mg/kg)	Validation Qualifier*	Reason Code**
WB 7-8, S1, C 072417	PCB-1248	1.3	NA	1.3	J	13
WB 7-8, S1, C 072417	PCB-1254	0.50	NA	0.50	J	13
WB 7-8, S1, C 072417	PCB-1260	0.054	NA	0.054	J	13
WB 7-8, S2, C 072417	PCB-1248	0.79	NA	0.79	J	13
WB 7-8, S2, C 072417	PCB-1254	0.30	NA	0.30	J	13
WB 7-8, S2, C 072417	PCB-1260	0.043	NA	0.043	J	13
WB 7-8, S3, C 072417	PCB-1248	1.3	NA	1.3	J	13
WB 7-8, S3, C 072417	PCB-1254	0.46	NA	0.46	J	13
WB 7-8, S3, C 072417	PCB-1260	0.050	NA	0.050	J	13
WB 7-8, S4, C 072417	PCB-1248	1.0	NA	1.0	J	13
WB 7-8, S4, C 072417	PCB-1254	0.42	NA	0.42	J	13
WB 7-8, S4, C 072417	PCB-1260	0.040	NA	0.040	J	13

mg/kg-milligrams per kilogram
NA-not applicable
* Validation qualifiers are defined in Attachment 1 at the end of this report
**Reason codes are defined in Attachment 2 at the end of this report

3.2 Holding Times

No holding times are listed in the referenced method for PCB analyses. The samples were extracted and analyzed within 3 days of collection. Therefore, no qualifications were applied to the data, based on professional and technical judgment.

3.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 218112). PCBs were not detected in the method blank above the MDLs.

3.4 Matrix Spike/Matrix Spike Duplicate

MS/MSD pairs were not reported with the sample set.

3.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery results were within the laboratory specified acceptance criteria.

3.6 Surrogates

Acceptable surrogate recoveries were reported for the sample analyses.

3.7 Field Duplicate

Two field duplicates were collected with the sample set. One field duplicate was analyzed for PCBs, DUP 14. Acceptable precision (RPD <40% for results greater than five times the RL and ±2 times the RL for results less than five times the RL) was demonstrated between the field duplicate and the original sample, WB 7-8, S4, C 072417.

3.8 Sensitivity

The samples were reported to the MDLs. No elevated non-detect results were reported.

It was noted that no NYSDEC constituent levels were listed for PCBs.

3.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The sample date and time was added to the sample IDs in the EDD and was not add to the sample IDs in the laboratory report. No other discrepancies were identified between the level II report and the EDD.

4.0 METALS

The samples were analyzed for metals by EPA methods 3050B/6010C (Mercury evaluated separately in Section 5.0, below).

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

✓ Overall Assessment

- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

4.1 Overall Assessment

The metals data reported in this data set are considered usable for meeting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this data set is 100%.

4.2 Holding Times

The holding time for the metals analysis of solid samples is 180 days from sample collection to analysis. The holding times were met for the sample analyses.

4.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 218293). The metals were not detected in the method blank above the MDLs.

4.4 Matrix Spike/Matrix Spike Duplicate

MS/MSD pairs were not reported with the sample set.

4.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery results were within the laboratory specified acceptance criteria.

4.6 Laboratory Duplicate

A laboratory duplicate was not reported.

4.7 Field Duplicate

Two field duplicates were collected with the sample set. One field duplicate was analyzed for metals, DUP 14. Acceptable precision (RPD <40% for results greater than five times the RL and ±2 times the RL for results less than five times the RL) was demonstrated between the field duplicate and the original sample, WB 7-8, S4, C 072417.

4.8 Sensitivity

The samples were reported to the MDLs. No elevated non-detect results were reported.

The MDLs were at or below the NYSDEC DER10 App 5 Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010. It was noted that no NYSDEC constituent level was listed in the EDD for chromium.

4.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The sample date and time was added to the sample IDs in the EDD and was not add to the sample IDs in the laboratory report. No other discrepancies were identified between the level II report and the EDD.

5.0 MERCURY

The samples were analyzed for mercury by EPA method 7471B.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

5.1 Overall Assessment

The mercury data reported in this data set are considered usable for meeting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this data set is 100%.

5.2 Holding Times

The holding time for the mercury analysis of solid samples is 28 days from sample collection to analysis. The holding times were met for the sample analyses.

5.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 218097). Mercury was not detected in the method blank above the MDL.

5.4 Matrix Spike/Matrix Spike Duplicate

MS/MSD pairs were not reported with the sample set.

5.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS/Laboratory control sample duplicate (LCSD) pair was reported. The recovery and RPD results were within the laboratory specified acceptance criteria.

5.6 Laboratory Duplicate

A laboratory duplicate was not reported.

5.7 Field Duplicate

Two field duplicates were collected with the sample set. One field duplicate was analyzed for mercury, DUP 14. Acceptable precision (RPD <40% for results greater than five times the RL and ±2 times the RL for results less than five times the RL) was demonstrated between the field duplicate and the original sample, WB 7-8, S4, C 072417.

5.8 Sensitivity

The samples were reported to the MDL. No elevated non-detect results were reported.

The MDL was at or below the NYSDEC DER10 App 5 Constituent Level for Imported Fill or Soil Restricted Residential Use May 2010.

5.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The sample date and time was added to the sample IDs in the EDD and was not add to the sample IDs in the laboratory report. No other discrepancies were identified between the level II report and the EDD.

6.0 TOTAL CYANIDE

The samples were analyzed for total cyanide by EPA Methods 9010C/ 9014.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

6.1 Overall Assessment

The total cyanide data reported in this data set are considered usable for meeting project objectives. The analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this data set is 100%.

6.2 Holding Times

The holding time for the total cyanide analysis of solid samples is 14 days from sample collection to analysis. The holding times were met for the sample analyses.

6.3 Method Blanks

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 218282). Cyanide was not detected in the method blank above the MDL.

6.4 Matrix Spike

MS/MSD pairs were not reported with the sample set.

6.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Three LCSs were reported. The recovery results were within the laboratory specified acceptance criteria.

6.6 Laboratory Duplicate

Laboratory duplicates were not reported.

6.7 Field Duplicate

Two field duplicates were collected with the sample set. One field duplicate was analyzed for cyanide, DUP 14. Acceptable precision (RPD <40% for results greater than five times the RL and ±2 times the RL for results less than five times the RL) was demonstrated between the field duplicate and the original sample, WB 7-8, S4, C 072417.

6.8 Sensitivity

The samples were reported to the MDL. No elevated non-detect results were reported.

The MDL was at or below the NYSDEC DER10 App 5 Constituent Level for Imported Fill or Soil Restricted Residential Use May 2010.

6.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The sample date and time was added to the sample IDs in the EDD and was not add to the sample IDs in the laboratory report. No other discrepancies were identified between the level II report and the EDD.

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ATTACHMENT 1
DATA VALIDATION QUALIFIER DEFINITIONS AND INTERPRETATION KEY
Assigned by Geosyntec's Data Validation Team

DATA QUALIFIER DEFINITIONS

U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

J+ The analyte was positively identified; however, the associated numerical value is likely to be higher that the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.

J- The analyte was positively identified; however, the associated numerical value is likely to be lower that the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ATTACHMENT 2
DATA VALIDATION REASON CODES
Assigned by Geosyntec's Data Validation Team

Valid Value	Description
1	Preservation requirement not met
2	Analysis holding time exceeded
3	Blank contamination (i.e., method, trip, equipment, etc.)
4	Matrix spike/matrix spike duplicate recovery or RPD outside limits
5	LCS recovery outside limits
6	Surrogate recovery outside limits
7	Field Duplicate RPD exceeded
8	Serial dilution percent difference exceeded
9	Calibration criteria not met
10	Linear range exceeded
11	Internal standard criteria not met
12	Lab duplicates RPD exceeded
13	Other

RPD-relative percent difference

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Memorandum

Date:	14 August 2017
To:	Aron Krasnopoler
From:	Chris Pracheil
CC:	J. Caprio
Subject:	**Stage 2A Data Validation - Level II Data Deliverable, TestAmerica Job ID # 180-68556-1**

SITE: Former Sperry Remington Site-North IRM

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of nine solid samples, including two samples for matrix spike/matrix spike duplicate (MS/MSD) analyses, one field duplicate sample, and one trip blank, collected July 25, 2017, as part of the Former Sperry Remington Site-North IRM project. The analyses were performed at TestAmerica Laboratories, Inc., Pittsburgh, Pennsylvania. The samples were analyzed for the following tests:

- Volatile Organic Compounds (VOCs) by EPA Methods 5035/8260C
- Semivolatile Organic Compounds (SVOCs) by EPA Methods 3541/8270D
- Polychlorinated Biphenyls (PCBs) by EPA Methods 3541/8082A
- Metals by EPA Methods 3050B/6010C
- Mercury by EPA Method 7471B
- Total Cyanide by EPA Method 9014
- Total Solids by Standard Method 2540G

EXECUTIVE SUMMARY

The samples were handled, prepared, and measured in the same manner under similar prescribed conditions.

Overall, based on this Stage 2A data validation covering the quality control (QC) parameters listed below, the data as qualified are usable for meeting project objectives. Qualified data should be used within the limitations of the qualification.

The data were validated the Quality Assurance Project Plan (QAPP) for Former Sperry Remington Facility Industrial Outfall Site, Elmira, New York, NYSDEC Site I.D. # 808043, NY09-2480-04, July 7, 2010, Revised November 11, 2010, USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review, January 2017 (EPA 540-R-2017-002), USEPA Contract Laboratory Program National Functional Guidelines for Superfund Inorganic Methods Data Review, January 2017 (EPA 540-R-2017-001), the pertinent methods referenced by the laboratory report and professional and technical judgment.

The following samples were analyzed and validated at Stage 2A level in the data set:

Laboratory ID	Client ID
180-68556-1	WB7-8, S5, A 72517
180-68556-2	WB7-8, S5, B 72517
180-68556-3	WB7-8, S5, C 72517
180-68556-4	WB6-7, S1, A 72517
180-68556-5	WB6-7, S1, B 72517
180-68556-6	WB6-7, S1, C 72517

Laboratory ID	Client ID
180-68556-7	WB6-7, S2, A 72517
180-68556-8	WB6-7, S2, B 72517
180-68556-9	WB6-7, S2, C 72517
180-68556-10	DUP 17 72517
180-68556-11	TRIP BLANK

The samples were received at the laboratory at 2.7°C, within the criteria of 0-6°C. No sample preservation issues were noted by the laboratory.

The following sample receiving issues were noted:

- Incorrect error corrections were observed on the chain of custody (COC), instead of the proper procedure of a single strike through, correction, and initials and date of person making the corrections.
- Sample collection times were not documented on the COC for field duplicate samples DUP 17, 72517. The laboratory assigned collection times of 00:00.
- The sample ID listed on the COC for the trip blank was TRIP BLANK #1. The laboratory logged the sample in with the ID TRIP BLANK. In addition, no collection date or time were documented on the COC for the trip blank. The laboratory assigned collection date and time of 7/25/17, 00:00.
- There was rush sticker on the COC, obliterating part of the analysis request section of the COC.

The solids data, used to report the samples on a dry weight basis, were not validated.

1.0 VOLATILE ORGANIC COMPOUNDS

The samples were analyzed for VOCs by EPA methods 8260C and 5035/8260B.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Surrogates
- ✓ Trip Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

1.1 Overall Assessment

The VOC data reported in this package are considered usable for meeting project objectives. The analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this package is 100%.

1.2 Holding Times

The holding times for the VOC analysis of a solid sample collected using a Terracore are 48 hours from collection to laboratory receipt and 14 days from sample collection to analysis. The holding times were met for the sample analyses.

1.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two method blanks were reported (batches 218214 and 218236). VOCs were not detected in the method blanks above the method detection limits (MDLs).

1.4 Matrix Spike/Matrix Spike Duplicate

MS/MSD pairs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). A sample set specific MS/MSD pair was reported, using sample WB7-8, S5, A 72517. The recovery and relative percent difference (RPD) results were within the laboratory specified acceptance criteria, with the following exceptions.

One or both recoveries of carbon tetrachloride, n-propylbenzene, 1,1,1-trichloroethane and 1,2,4-trimethylbenzene were high, outside laboratory specified acceptance criteria. Since these compounds were not detected in sample WB7-8, S5, A 72517, no qualifications were applied to the data.

1.5 Laboratory Control Sample (LCS)

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two LCSs were reported. The recovery results were within the laboratory specified acceptance criteria.

1.6 Surrogates

Acceptable surrogate recoveries were reported.

1.7 Trip Blank

One trip blank, TRIP BLANK, accompanied the samples. VOCs were not detected in the trip blank above the MDLs, with the following exception.

Acetone was detected in the trip blank at a concentration greater than the RL. Since acetone was not detected in the associated samples, no qualifications were applied to the data.

1.8 Field Duplicate

One field duplicate, DUP 17 72517 was collected with the sample set. Acceptable precision [RPD <40% for results greater than five times the reporting limit (RL) and ±2 times the RL for results less than five times the RL] was demonstrated between the field duplicate and the original sample, WB6-7, S1, B 72517.

1.9 Sensitivity

The samples were reported to the MDLs. No elevated non-detect results were reported.

The MDLs were at or below the NYSDEC DER10 App 5 Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010.

1.10 Electronic Data Deliverable (EDD) Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The sample date and time was added to the sample IDs in the EDD and was not added to the sample IDs in the laboratory report. No other discrepancies were identified between the level II report and the EDD.

2.0 SEMIVOLATILE ORGANIC COMPOUNDS

The samples were analyzed for SVOCs by EPA methods 3541/8270D.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

✓ Overall Assessment
✓ Holding Times
✓ Method Blank
⊗ Matrix Spike/Matrix Spike Duplicate
✓ Laboratory Control Sample
✓ Surrogates
✓ Field Duplicate
✓ Sensitivity
✓ Electronic Data Deliverable Review

2.1 Overall Assessment

The SVOC data reported in this package are considered usable for meeting project objectives. The analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this package is 100%.

2.2 Holding Times

The holding times for SVOC analysis of solid samples are 14 days from sample collection to extraction and 40 days from extraction to analysis. The holding times were met for the sample analyses.

2.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 218278). SVOCs were not detected in the method blank above the MDLs.

2.4 Matrix Spike/Matrix Spike Duplicate

MS/MSD pairs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). A sample set specific MS/MSD pair was reported, using sample WB7-8, S5, C 72517. The recovery and RPD results were within the laboratory specified acceptance criteria, with the following exceptions.

The MS recoveries of acenaphthylene, anthracene, benzo[a]anthracene, benzo[b]fluoranthene, benzo[k]fluoranthene, phenanthrene, pyrene and pyridine were low, outside the laboratory specified acceptance criteria and the RPDs for these compounds were high outside the laboratory specified acceptance criteria. Therefore, based on the low recoveries, the non-detect result of pyridine in sample WB7-8, S5, C 72517 was UJ qualified as estimated less than the MDL and based on the low recoveries and high RPDs, the concentrations of acenaphthylene, anthracene, benzo[a]anthracene, benzo[b]fluoranthene, benzo[k]fluoranthene, phenanthrene and pyrene in sample WB7-8, S5, C 72517 were J qualified as estimated.

In addition, the RPDs of the following compounds were high and outside laboratory specified acceptance criteria. Therefore, the concentrations of these compounds in sample WB7-8, S5, C 72517 were J qualified as estimated.

Acenaphthene
Benzo[a]pyrene
Benzo[g,h,i]perylene
Chrysene
Dibenz(a,h)anthracene
Dibenzofuran
1,4-Dioxane
Fluoranthene

Fluorene
Hexachlorobenzene
Indeno[1,2,3-cd]pyrene
Methylphenol, 2-
Pentachlorophenol
Methylphenol, 3 & 4
Naphthalene
Phenol

Hexachloroethane
Nitrobenzene
Hexachlorobutadiene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dinitrotoluene

Sample	Compound	Laboratory Result (mg/kg)	Laboratory Flag	Validation Result (mg/kg)	Validation Qualifier*	Reason Code**
WB7-8, S5, C 72517	Acenaphthene	0.0091	F2	0.0091	J	4
WB7-8, S5, C 72517	Acenaphthylene	0.038	F2,F1	0.038	J	4
WB7-8, S5, C 72517	Anthracene	0.036	F2,F1	0.036	J	4
WB7-8, S5, C 72517	Benzo[a]anthracene	0.097	F2,F1	0.097	J	4
WB7-8, S5, C 72517	Benzo[a]pyrene	0.10	F2	0.10	J	4
WB7-8, S5, C 72517	Benzo[b]fluoranthene	0.14	F2,F1	0.14	J	4
WB7-8, S5, C 72517	Benzo[g,h,i]perylene	0.096	F2	0.096	J	4
WB7-8, S5, C 72517	Benzo[k]fluoranthene	0.051	F2,F1	0.051	J	4
WB7-8, S5, C 72517	Chrysene	0.11	F2	0.11	J	4
WB7-8, S5, C 72517	Dibenz(a,h)-anthracene	0.024	F2	0.024	J	4
WB7-8, S5, C 72517	Dibenzofuran	0.0075	J,F2	0.0075	J	4
WB7-8, S5, C 72517	Fluoranthene	0.18	F2	0.18	J	4
WB7-8, S5, C 72517	Fluorene	0.011	F2	0.011	J	4
WB7-8, S5, C 72517	Indeno[1,2,3-cd]pyrene	0.082	F2	0.082	J	4
WB7-8, S5, C 72517	Methylphenol, 3 & 4	0.012	J,F2	0.012	J	4
WB7-8, S5, C 72517	Naphthalene	0.015	F2	0.015	J	4
WB7-8, S5, C 72517	Phenanthrene	0.085	F2,F1	0.085	J	4
WB7-8, S5, C 72517	Pyrene	0.15	F2,F1	0.15	J	4
WB7-8, S5, C 72517	Pyridine	4.2	U, F1	4.2	UJ	4

mg/kg-milligrams per kilogram
J- Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1-laboratory flag indicating the MS and/or MSD recovery is outside acceptance limits.
F2- laboratory flag indicating the MS/MSD RPD exceeds control limits.
* Validation qualifiers are defined in Attachment 1 at the end of this report
**Reason codes are defined in Attachment 2 at the end of this report

2.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery results were within the laboratory specified acceptance criteria.

2.6 Surrogates

Acceptable surrogate recoveries were reported.

2.7 Field Duplicate

A field duplicate was collected, but was not analyzed for SVOCs.

2.8 Sensitivity

The samples were reported to the MDLs. No elevated non-detect results were reported.

The MDLs were at or below the NYSDEC DER10 App 5 Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010. It was noted that no NYSDEC DER10 App 5 Constituent Levels for Imported Fill were listed for the following compounds:

2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dinitrotoluene
2-Methylphenol
Dibenzofuran
Hexachlorobenzene

Hexachlorobutadiene
Hexachloroethane
Methylphenol, 3 & 4
Nitrobenzene
Pyridine

2.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The sample date and time was added to the sample IDs in the EDD and was not added to the sample IDs in the laboratory report. No other discrepancies were identified between the level II report and the EDD.

3.0 POLYCHLORINATED BIPHENYLS

The samples were analyzed for PCBs by EPA Methods 3541/8082A.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

⊗ Overall Assessment
✓ Holding Times
✓ Method Blank
✓ Matrix Spike/Matrix Spike Duplicate
✓ Laboratory Control Sample
✓ Surrogates
✓ Field Duplicate
✓ Sensitivity
✓ Electronic Data Deliverable Review

3.1 Overall Assessment

The PCB data reported in this data set are considered usable for meeting project objectives. The analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this data set is 100%.

The samples contain mixtures of PCBs 1248, 1254 and 1260. There are peaks in 1248 and 1254 that are in both of these PCBs and peaks in 1254 and 1260 that are in both of these PCBs; therefore, there is contribution between PCBs when more than one PCB is detected in a sample. Therefore, based on professional and technical judgment, the concentrations of PCBs 1248, 1254 and 1260 in these samples were J qualified as estimated.

Sample ID	Compound	Laboratory Concentration (mg/kg)	Laboratory Flag	Validation Concentration (mg/kg)	Validation Qualifier	Reason Code
WB6-7, S1, C 72517	PCB-1248	0.78	NA	0.78	J	13
WB6-7, S1, C 72517	PCB-1254	0.29	NA	0.29	J	13
WB6-7, S1, C 72517	PCB-1260	0.041	NA	0.041	J	13
WB6-7, S2, C 72517	PCB-1248	0.98	NA	0.98	J	13
WB6-7, S2, C 72517	PCB-1254	0.43	NA	0.43	J	13
WB6-7, S2, C 72517	PCB-1260	0.059	NA	0.059	J	13

Sample ID	Compound	Laboratory Concentration (mg/kg)	Laboratory Flag	Validation Concentration (mg/kg)	Validation Qualifier	Reason Code
WB7-8, S5, C 72517	PCB-1248	0.87	NA	0.87	J	13
WB7-8, S5, C 72517	PCB-1254	0.36	NA	0.36	J	13
WB7-8, S5, C 72517	PCB-1260	0.038	NA	0.038	J	13

mg/kg-milligrams per kilograms
NA-not applicable

3.2 Holding Times

No holding times are listed in the referenced method for PCB analyses. The samples were extracted and analyzed within 3 days of collection. Therefore, no qualifications were applied to the data, based on professional and technical judgment.

3.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 218279). PCBs were not detected in the method blank above the MDLs.

3.4 Matrix Spike/Matrix Spike Duplicate

MS/MSD pairs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). A sample set specific MS/MSD pair was reported, using sample WB7-8, S5, C 72517. The recovery and RPD results were within the laboratory specified acceptance criteria.

3.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery results were within the laboratory specified acceptance criteria.

3.6 Surrogates

Acceptable surrogate recoveries were reported.

3.7 Field Duplicate

A field duplicate was collected, but was not analyzed for PCBs.

3.8 Sensitivity

The samples were reported to the MDLs. No elevated non-detect results were reported.

It was noted that no NYSDEC constituent levels were listed for PCBs.

3.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The sample date and time was added to the sample IDs in the EDD and was not added to the sample IDs in the laboratory report. No other discrepancies were identified between the level II report and the EDD.

4.0 METALS

The samples were analyzed for metals by EPA methods 3050B/6010C (Mercury evaluated separately in Section 5.0, below).

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

4.1 Overall Assessment

The metals data reported in this data set are considered usable for meeting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid

analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this data set is 100%.

4.2 Holding Times

The holding time for the metals analysis of solid samples is 180 days from sample collection to analysis. The holding times were met for the sample analyses.

4.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 218293). The metals were not detected in the method blank above the MDLs.

4.4 Matrix Spike/Matrix Spike Duplicate

MS/MSD pairs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). A sample set specific MS/MSD pair was reported, using sample WB7-8, S5, C 72517. The recovery and RPD results were within the laboratory specified acceptance criteria, with the following exception.

The MS recovery of manganese was high, outside laboratory specific acceptance criteria. Since the concentration of manganese in the parent sample was greater than four times the spike concentration, no qualifications were applied to the data, based on technical and professional judgement.

4.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery results were within the laboratory specified acceptance criteria.

4.6 Laboratory Duplicate

A laboratory duplicate was not reported.

4.7 Field Duplicate

A field duplicate was collected, but was not analyzed for metals.

4.8 Sensitivity

The samples were reported to the MDLs. No elevated non-detect results were reported.

The MDLs were at or below the NYSDEC DER10 App 5 Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010. It was noted that no NYSDEC constituent level was listed for chromium.

4.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The sample date and time was added to the sample IDs in the EDD and was not added to the sample IDs in the laboratory report. No other discrepancies were identified between the level II report and the EDD.

5.0 MERCURY

The samples were analyzed for mercury by EPA method 7471B.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

5.1 Overall Assessment

The mercury data reported in this data set are considered usable for meeting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this data set is 100%.

5.2 Holding Times

The holding time for the mercury analysis of solid samples is 28 days from sample collection to analysis. The holding times were met for the sample analyses.

5.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 218383). Mercury was not detected in the method blank above the MDL.

5.4 Matrix Spike/Matrix Spike Duplicate

MS/MSD pairs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). A sample set specific MS/MSD pair was reported, using sample WB7-8, S5, C 72517. The recovery and RPD results were within the laboratory specified acceptance criteria.

5.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery result was within the laboratory specified acceptance criteria.

5.6 Laboratory Duplicate

A laboratory duplicate was not reported.

5.7 Field Duplicate

A field duplicate was collected, but was not analyzed for mercury.

5.8 Sensitivity

The samples were reported to the MDL. No elevated non-detect results were reported.

The MDL was at or below the NYSDEC DER10 App 5 Constituent Level for Imported Fill or Soil Restricted Residential Use May 2010.

5.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The sample date and time was added to the sample IDs in the EDD and was not added to the sample IDs in the laboratory report. No other discrepancies were identified between the level II report and the EDD.

6.0 TOTAL CYANIDE

The samples were analyzed for total cyanide by EPA Methods 9010C/9014.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

6.1 Overall Assessment

The total cyanide data reported in this data set are considered usable for meeting project objectives. The analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this data set is 100%.

6.2 Holding Times

The holding time for the total cyanide analysis of solid samples is 14 days from sample collection to analysis. The holding times were met for the sample analyses.

6.3 Method Blanks

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 218282). Cyanide was not detected in the method blank above the MDL.

6.4 Matrix Spike/Matrix Spike Duplicate

MS/MSD pairs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). A sample set specific MS/MSD pair was reported, using sample WB7-8, S5, C 72517. The recovery and RPD results were within the laboratory specified acceptance criteria.

6.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Three LCSs were reported. The recovery results were within the laboratory specified acceptance criteria.

6.6 Laboratory Duplicate

Laboratory duplicates were not reported.

6.7 Field Duplicate

A field duplicate was collected, but was not analyzed for cyanide.

6.8 Sensitivity

The samples were reported to the MDL. No elevated non-detect results were reported.

The MDL was at or below the NYSDEC DER10 App 5 Constituent Level for Imported Fill or Soil Restricted Residential Use May 2010.

6.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The sample date and time was added to the sample IDs in the EDD and was not added to the sample IDs in the laboratory report. No other discrepancies were identified between the level II report and the EDD.

* * * * *

ATTACHMENT 1
DATA VALIDATION QUALIFIER DEFINITIONS AND INTERPRETATION KEY
Assigned by Geosyntec's Data Validation Team

DATA QUALIFIER DEFINITIONS

U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

J+ The analyte was positively identified; however, the associated numerical value is likely to be higher that the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.

J- The analyte was positively identified; however, the associated numerical value is likely to be lower that the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ATTACHMENT 2
DATA VALIDATION REASON CODES
Assigned by Geosyntec's Data Validation Team

Valid Value	Description
1	Preservation requirement not met
2	Analysis holding time exceeded
3	Blank contamination (i.e., method, trip, equipment, etc.)
4	Matrix spike/matrix spike duplicate recovery or RPD outside limits
5	LCS recovery outside limits
6	Surrogate recovery outside limits
7	Field Duplicate RPD exceeded
8	Serial dilution percent difference exceeded
9	Calibration criteria not met
10	Linear range exceeded
11	Internal standard criteria not met
12	Lab duplicates RPD exceeded
13	Other

RPD-relative percent difference

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Memorandum

Date:	14 August 2017
To:	Aron Krasnopoler
From:	Chris Pracheil
CC:	J. Caprio
Subject:	**Stage 2A Data Validation - Level II Data Deliverable, TestAmerica Job ID # 180-68622-1**

SITE: Former Sperry Remington Site-North IRM

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of six solid samples and one trip blank, collected July 26, 2017, as part of the Former Sperry Remington Site-North IRM project. The analyses were performed at TestAmerica Laboratories, Inc., Pittsburgh, Pennsylvania. The samples were analyzed for the following tests:

- Volatile Organic Compounds (VOCs) by EPA Methods 8260C and 5035/8260C
- Semivolatile Organic Compounds (SVOCs) by EPA Methods 3541/8270D
- Polychlorinated Biphenyls (PCBs) by EPA Methods 3541/8082A
- Metals by EPA Methods 3050B/6010C
- Mercury by EPA Method 7471B
- Total Cyanide by EPA Methods 9010C/9014
- Total Solids by Standard Method 2540G

EXECUTIVE SUMMARY

The samples were handled, prepared, and measured in the same manner under similar prescribed conditions.

Overall, based on this Stage 2A data validation covering the quality control (QC) parameters listed below, the data as qualified are usable for meeting project objectives. Qualified data should be used within the limitations of the qualification.

The data were validated based on the Quality Assurance Project Plan (QAPP) for Former Sperry Remington Facility Industrial Outfall Site, Elmira, New York, NYSDEC Site I.D. # 808043,

NY09-2480-04, July 7, 2010, Revised November 11, 2010, USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review, January 2017 (EPA 540-R-2017-002), USEPA Contract Laboratory Program National Functional Guidelines for Superfund Inorganic Methods Data Review, January 2017 (EPA 540-R-2017-001), the pertinent methods referenced by the laboratory report and professional and technical judgment.

The following samples were analyzed and validated at Stage 2A level in the data set:

Laboratory ID	Client ID
180-68622-1	WB6-7, S3, A 072617
180-68622-2	WB6-7, S3, B 072617
180-68622-3	WB6-7, S3, C 072617
180-68622-4	WB6-7, S4, A 072617

Laboratory ID	Client ID
180-68622-5	WB6-7, S4, B 072617
180-68622-6	WB6-7, S4, C 072617
180-68622-9	TRIP BLANK#1

The samples were received at the laboratory at 2.1°C within the criteria of 0-6°C. No sample preservation issues were noted by the laboratory.

The following sample receiving issues were noted:

- Incorrect error corrections were observed on the chain of custody (COC), instead of the proper procedure of a single strike through, correction, and initials and date of person making the corrections.
- There was no time documented on the COC for the sample relinquishing.
- There was rush sticker on the COC, obliterating part of the analysis request section of the COC.
- Samples WB5-6, S1, A 072617 and WB5-6, S1, C 072617 were listed on the COC and reported in laboratory report 180-68622-2.

The solids data, used to report the samples on a dry weight basis, were not validated.

1.0 VOLATILE ORGANIC COMPOUNDS

The samples were analyzed for VOCs by EPA methods 8260C and 5035/8260C.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Surrogates
- ✓ Trip Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

1.1 Overall Assessment

The VOC data reported in this package are considered usable for meeting project objectives. The analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this package is 100%.

The narrative indicated that the continuing calibration verification (CCV) percent difference (%D) for vinyl chloride was high, outside method specified acceptance criteria in analytical batch 218353. The %D was 24%D, with a low bias; the method specified acceptance criteria is 20%D. Since the %D was within the validation guidance of 25%D, no qualifications were applied to the data.

The narrative indicated that the CCV %D for acetone was high, outside method specified acceptance criteria in analytical batch 218548. The %D was 26%D, with a low bias; the method limit is 20%D. Since the %D was within the validation guidance of 40%D, no qualifications were applied to the data.

1.2 Holding Times

The holding times for the VOC analysis of a solid sample collected using a Terracore are 48 hours from collection to laboratory receipt and 14 days from sample collection to analysis. The holding time for the VOC analysis of a preserved water sample is 14 days from sample collection to analysis. The holding times were met for the sample analyses.

1.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two method blanks were reported (batches 218548 and 218356). VOCs were not detected in the method blanks above the method detection limits (MDLs).

1.4 Matrix Spike/Matrix Spike Duplicate (MS/MSD)

MS/MSD pairs were not reported with the sample set.

1.5 Laboratory Control Sample (LCS)

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS and one LCS/LCS duplicate (LCSD) pair were reported. The recovery and relative percent difference (RPD) results were within the laboratory specified acceptance criteria.

1.6 Surrogates

Acceptable surrogate recoveries were reported.

1.7 Trip Blank

One trip blank, TRIP BLANK#1, accompanied the samples. VOCs were not detected in the trip blank above the MDLs, with the following exception.

Acetone was detected at an estimated concentration, greater than the MDL and less than the RL in the trip blank. Therefore, the estimated concentrations of acetone in the associated samples were U qualified as not detected at the reporting limit (RL).

Sample	Compound	Laboratory Result (mg/kg)	Laboratory Flag	Validation Result (mg/kg)	Validation Qualifier*	Reason Code**
WB6-7, S4, A 072617	Acetone	0.0026	J	0.016	U	3
WB6-7, S4, B 072617	Acetone	0.0028	J	0.016	U	3

mg/kg-milligrams per kilogram
J- result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value
* Validation qualifiers are defined in Attachment 1 at the end of this report
**Reason codes are defined in Attachment 2 at the end of this report

1.8 Field Duplicate

A field duplicate was not collected with the sample set.

1.9 Sensitivity

The samples were reported to the MDLs. No elevated non-detect results were reported.

The MDLs were at or below the NYSDEC DER10 App 5 Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010.

1.10 Electronic Data Deliverable (EDD) Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The sample date and time were included in the sample IDs in the EDD and not included in the sample IDs in the laboratory report. No other discrepancies were identified between the level II report and the EDD.

2.0 SEMIVOLATILE ORGANIC COMPOUNDS

The samples were analyzed for SVOCs by EPA methods 3541/8270D.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Surrogates
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

2.1 Overall Assessment

The SVOC data reported in this package are considered usable for meeting project objectives. The analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this package is 100%.

2.2 Holding Times

The holding times for SVOC analysis of solid samples are 14 days from sample collection to extraction and 40 days from extraction to analysis. The holding times were met for the sample analyses.

2.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 218664). SVOCs were not detected in the method blank above the MDLs.

2.4 Matrix Spike/Matrix Spike Duplicate

MS/MSD pairs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). A sample set specific MS/MSD pair was reported, using sample WB6-7, S3, C 072617. The recovery and RPD results were within the laboratory specified acceptance criteria.

2.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery results were within the laboratory specified acceptance criteria.

2.6 Surrogates

Acceptable surrogate recoveries were reported.

2.7 Field Duplicate

A field duplicate was not collected with the sample set.

2.8 Sensitivity

The samples were reported to the MDLs. No elevated non-detect results were reported.

The MDLs were at or below the NYSDEC DER10 App 5 Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010. It was noted that no NYSDEC DER10 App 5 Constituent Levels for Imported Fill were listed for the following compounds:

2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dinitrotoluene
2-Methylphenol
Dibenzofuran
Hexachlorobenzene

Hexachlorobutadiene
Hexachloroethane
Methylphenol, 3 & 4
Nitrobenzene
Pyridine

2.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The sample date and time were included in the sample IDs in the EDD and not included in the sample IDs in the laboratory report. No other discrepancies were identified between the level II report and the EDD.

3.0 POLYCHLORINATED BIPHENYLS

The samples were analyzed for PCBs by EPA Methods 3541/8082A.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

⊗ Overall Assessment
✓ Holding Times
✓ Method Blank
✓ Matrix Spike/Matrix Spike Duplicate
✓ Laboratory Control Sample
✓ Surrogates
✓ Field Duplicate
✓ Sensitivity
✓ Electronic Data Deliverable Review

3.1 Overall Assessment

The PCB data reported in this data set are considered usable for meeting project objectives. The analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this data set is 100%.

The samples contain mixtures of PCBs 1248, 1254 and 1260. There are peaks in 1248 and 1254 that are in both of these PCBs and peaks in 1254 and 1260 that are in both of these PCBs; therefore, there is contribution between PCBs when more than one PCB is detected in a sample. Therefore, based on professional and technical judgment, the concentrations of PCBs 1248, 1254 and 1260 in these samples were J qualified as estimated.

Sample ID	Compound	Laboratory Concentration (mg/kg)	Laboratory Flag	Validation Concentration (mg/kg)	Validation Qualifier	Reason Code
WB6-7, S3, C 072617	PCB-1248	0.40	NA	0.40	J	13
WB6-7, S3, C 072617	PCB-1254	0.19	NA	0.19	J	13
WB6-7, S3, C 072617	PCB-1260	0.041	NA	0.041	J	13
WB6-7, S4, C 072617	PCB-1248	0.76	NA	0.76	J	13
WB6-7, S4, C 072617	PCB-1254	0.34	NA	0.34	J	13
WB6-7, S4, C 072617	PCB-1260	0.068	NA	0.068	J	13

mg/kg-milligrams per kilograms
NA-not applicable

3.2 Holding Times

No holding times are listed in the referenced method for PCB analyses. The samples were extracted and analyzed within 8 days of collection. Therefore, no qualifications were applied to the data, based on professional and technical judgment.

3.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 218666). PCBs were not detected in the method blank above the MDLs.

3.4 Matrix Spike/Matrix Spike Duplicate

An MS/MSD pair was not reported.

3.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery results were within the laboratory specified acceptance criteria.

3.6 Surrogates

Acceptable surrogate recoveries were reported for the sample analyses.

3.7 Field Duplicate

Field duplicates were not collected with the sample set.

3.8 Sensitivity

The samples were reported to the MDLs. No elevated non-detect results were reported.

It was noted that no NYSDEC constituent levels were listed for PCBs.

3.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The sample date and time were included in the sample IDs in the EDD and not included in the sample IDs in the laboratory report. No other discrepancies were identified between the level II report and the EDD.

4.0 METALS

The samples were analyzed for metals by EPA methods 3050B/6010C (Mercury evaluated separately in Section 5.0, below).

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

⊗ Overall Assessment
✓ Holding Times
✓ Method Blank

- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

4.1 Overall Assessment

The metals data reported in this data set are considered usable for meeting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this data set is 100%.

The low level CCV percent recovery for selenium in batch 218674 was high, outside laboratory specified acceptance criteria. Therefore, the concentration of selenium in the associated sample was J qualified as estimated.

Sample	Compound	Laboratory Result (mg/kg)	Laboratory Flag	Validation Result (mg/kg)	Validation Qualifier	Reason Code
WB6-7, S4, C 072617	Selenium	0.88	J^	0.88	J	9

mg/kg-milligrams per kilograms
J-result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value
^-laboratory flag indicating that the instrument related QC is outside acceptance limits

4.2 Holding Times

The holding time for the metals analysis of a solid sample is 180 days from sample collection to analysis. The holding times were met for the sample analyses.

4.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 218412). The metals were not detected in the method blank above the MDLs.

4.4 Matrix Spike/Matrix Spike Duplicate

An MS/MSD pair was not reported.

4.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery results were within the laboratory specified acceptance criteria.

4.6 Laboratory Duplicate

A laboratory duplicate was not reported.

4.7 Field Duplicate

A field duplicate was not collected with the sample set.

4.8 Sensitivity

The samples were reported to the MDLs. No elevated non-detect results were reported.

The MDLs were at or below the NYSDEC DER10 App 5 Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010. It was noted that no NYSDEC constituent level was listed for chromium.

4.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The sample date and time were included in the sample IDs in the EDD and not included in the sample IDs in the laboratory report. No other discrepancies were identified between the level II report and the EDD.

5.0 MERCURY

The samples were analyzed for mercury by EPA method 7471B.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

✓ Overall Assessment
✓ Holding Times

✓ Method Blank
⊗ Matrix Spike/Matrix Spike Duplicate
✓ Laboratory Control Sample
✓ Laboratory Duplicate
✓ Field Duplicate
✓ Sensitivity
✓ Electronic Data Deliverable Review

5.1 Overall Assessment

The mercury data reported in this data set are considered usable for meeting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this data set is 100%.

5.2 Holding Times

The holding time for the mercury analysis of solid samples is 28 days from sample collection to analysis. The holding times were met for the sample analyses.

5.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 218386). Mercury was not detected in the method blank above the MDL.

5.4 Matrix Spike/Matrix Spike Duplicate

MS/MSD pairs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). A sample set specific MS/MSD pair was reported, using sample WB6-7, S3, C 072617. The recovery and RPD results were within the laboratory specified acceptance criteria, with the following exception.

The MS recovery of mercury was high, outside the laboratory specified acceptance criteria. Therefore, the concentration of mercury in sample WB6-7, S3, C 072617 was J qualified as estimated.

Sample ID	Compound	Laboratory Concentration (mg/kg)	Laboratory Flag	Validation Concentration (mg/kg)	Validation Qualifier	Reason Code
WB6-7, S3, C 072617	Mercury	0.035	J, F1	0.035	J	4

mg/kg-milligrams per kilogram
J- result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value
F1-laboratory flag indicating the MS and/or MSD recovery is outside acceptance limits

5.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery results were within the laboratory specified acceptance criteria.

5.6 Laboratory Duplicate

A laboratory duplicate was not reported.

5.7 Field Duplicate

A field duplicate was not collected with the sample set.

5.8 Sensitivity

The samples were reported to the MDL. No elevated non-detect results were reported.

The MDL was at or below the NYSDEC DER10 App 5 Constituent Level for Imported Fill or Soil Restricted Residential Use May 2010.

5.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The sample date and time were included in the sample IDs in the EDD and not included in the sample IDs in the laboratory report. No other discrepancies were identified between the level II report and the EDD.

6.0 TOTAL CYANIDE

The samples were analyzed for total cyanide by EPA Methods 9010C/9014.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

6.1 Overall Assessment

The total cyanide data reported in this data set are considered usable for meeting project objectives. The analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this data set is 100%.

6.2 Holding Times

The holding time for the total cyanide analysis of solid samples is 14 days from sample collection to analysis. The holding times were met for the sample analyses.

6.3 Method Blanks

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 218907). Cyanide was not detected in the method blank above the MDL.

6.4 Matrix Spike/Matrix Spike Duplicate

MS/MSD pairs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). A sample set specific MS/MSD pair was reported, using sample WB6-7, S3, C 072617. The recovery and RPD results were within the laboratory specified acceptance criteria.

6.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Three LCSs were reported. The recovery results were within the laboratory specified acceptance criteria.

6.6 Laboratory Duplicate

Laboratory duplicates were not reported.

6.7 Field Duplicate

A field duplicate was not collected with the sample set.

6.8 Sensitivity

The samples were reported to the MDL. No elevated non-detect results were reported.

The MDL was at or below the NYSDEC DER10 App 5 Constituent Level for Imported Fill or Soil Restricted Residential Use May 2010.

6.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The sample date and time were included in the sample IDs in the EDD and not included in the sample IDs in the laboratory report. No other discrepancies were identified between the level II report and the EDD.

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* * * * *

ATTACHMENT 1
DATA VALIDATION QUALIFIER DEFINITIONS AND INTERPRETATION KEY
Assigned by Geosyntec's Data Validation Team

DATA QUALIFIER DEFINITIONS

U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

J+ The analyte was positively identified; however, the associated numerical value is likely to be higher that the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.

J- The analyte was positively identified; however, the associated numerical value is likely to be lower that the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ATTACHMENT 2
DATA VALIDATION REASON CODES
Assigned by Geosyntec's Data Validation Team

Valid Value	Description
1	Preservation requirement not met
2	Analysis holding time exceeded
3	Blank contamination (i.e., method, trip, equipment, etc.)
4	Matrix spike/matrix spike duplicate recovery or RPD outside limits
5	LCS recovery outside limits
6	Surrogate recovery outside limits
7	Field Duplicate RPD exceeded
8	Serial dilution percent difference exceeded
9	Calibration criteria not met
10	Linear range exceeded
11	Internal standard criteria not met
12	Lab duplicates RPD exceeded
13	Other

RPD-relative percent difference

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Memorandum

Date:	15 August 2017
To:	Aron Krasnopoler
From:	Chris Pracheil
CC:	J. Caprio
Subject:	**Stage 2A Data Validation - Level II Data Deliverable, TestAmerica Job ID # 180-68716-1**

SITE: Former Sperry Remington Site-North IRM

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of nine solid samples, two field duplicates and one trip blank, collected July 28, 2017, as part of the Former Sperry Remington Site-North IRM project. The analyses were performed at TestAmerica Laboratories, Inc., Pittsburgh, Pennsylvania. The samples were analyzed for the following tests:

- Volatile Organic Compounds (VOCs) by EPA Methods 8260C and 5035/8260C
- Semivolatile Organic Compounds (SVOCs) by EPA Methods 3541/8270D
- Polychlorinated Biphenyls (PCBs) by EPA Methods 3541/8082A
- Metals by EPA Methods 3050B/6010C
- Mercury by EPA Method 7471B
- Total Cyanide by EPA Method 9010C/9014
- Total Solids by Standard Method 2540G

EXECUTIVE SUMMARY

The samples were handled, prepared, and measured in the same manner under similar prescribed conditions.

Overall, based on this Stage 2A data validation covering the quality control (QC) parameters listed below, the data as qualified are usable for meeting project objectives. Qualified data should be used within the limitations of the qualification.

The data were validated based on the Quality Assurance Project Plan (QAPP) for Former Sperry Remington Facility Industrial Outfall Site, Elmira, New York, NYSDEC Site I.D. # 808043,

NY09-2480-04, July 7, 2010, Revised November 11, 2010, USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review, January 2017 (EPA 540-R-2017-002), USEPA Contract Laboratory Program National Functional Guidelines for Superfund Inorganic Methods Data Review, January 2017 (EPA 540-R-2017-001), the pertinent methods referenced by the laboratory report and professional and technical judgment.

The following samples were analyzed and validated at Stage 2A level in the data set:

Laboratory ID	Client ID
180-68716-1	WB3-4, S1, A 072817
180-68716-2	WB3-4, S1, B 072817
180-68716-3	WB3-4, S1, C 072817
180-68716-4	WB3-4, S2, A 072817
180-68716-5	WB3-4, S2, B 072817
180-68716-6	WB3-4, S2, C 072817

Laboratory ID	Client ID
180-68716-7	WB3-4, S3, A 072817
180-68716-8	WB3-4, S3, B 072817
180-68716-9	WB3-4, S3, C 072817
180-68716-10	DUPE 19
180-68716-11	DUPE 18
180-68716-12	TRIP BLANK #1

The samples were received at the laboratory at 0.6ºC within the criteria of 0-6ºC. No sample preservation issues were noted by the laboratory.

The following sample receiving issues were noted:

- The VOC sample vials for sample TRIP BLANK#1 were received with air bubbles of approximately 6mm in diameter.
- Incorrect error corrections were observed on the chain of custody (COC), instead of the proper procedure of a single strike through, correctio and initials and date of person making the corrections.
- There was rush sticker on the COC, obliterating part of the analysis request section of the COC.
- The sample collection times were not documented on the COC for field duplicate samples DUP 18 and DUP 19 and the sample collection date and time were not documented for Trip Blank #1. The laboratory assigned collection times of 00:00 to the field duplicates and sample date and time of collection of 7/28/17, 00:00 to the trip blank.

The solids data, used to report the samples on a dry weight basis, were not validated.

1.0 VOLATILE ORGANIC COMPOUNDS

The samples were analyzed for VOCs by EPA methods 8260C and 5035/8260C.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Surrogates
- ✓ Trip Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

1.1 Overall Assessment

The VOC data reported in this package are considered usable for meeting project objectives. The analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this package is 100%.

The narrative indicated that the continuing calibration verification (CCV) percent differences (%Ds) for vinyl chloride were high, outside method specified acceptance criteria in analytical batches 218535 and 218552. The %Ds were 20.5%D, with a low bias and 21.8%D, with a high bias, respectively; the method specified acceptance criteria is 20%D. Since the %Ds were within the validation guidance of 25%D, no qualifications were applied to the data.

The narrative indicated that the CCV %Ds for 1,1,1-trichloroethane, 1,2-dichloroethane, and n-butylbenzene were high, outside method specified acceptance criteria, with high biases in analytical batch 218566. Since 1,1,1-trichloroethane, 1,2-dichloroethane, and n-butylbenzene were not detected in the associated samples, no qualifications were applied to the data.

The VOC sample vials for sample TRIP BLANK #1 were received at the laboratory with air bubbles of approximately 6mm in diameter. No qualifications were applied to the trip blank data, but the data user should note the discrepancy.

1.2 Holding Times

The holding times for the VOC analysis of a solid sample collected using a Terracore are 48 hours from collection to laboratory receipt and 14 days from sample collection to analysis. The holding time for the VOC analysis of a preserved water sample is 14 days from sample collection to analysis. The holding times were met for the sample analyses.

1.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Three method blanks were reported (batches 218540, 218552 and 218570). VOCs were not detected in the method blanks above the method detection limits (MDLs).

1.4 Matrix Spike/Matrix Spike Duplicate (MS/MSD)

MS/MSD pairs were not reported with the sample set.

1.5 Laboratory Control Sample (LCS)

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two LCSs and one LCS/LCS duplicate (LCSD) pair were reported. The recovery and relative percent difference (RPD) results were within the laboratory specified acceptance criteria, with the following exceptions.

The LCS recoveries of carbon tetrachloride and 1,1,1-trichloroethane in the LCS in batch 218535 and the LCS recovery of 1,2-dichloroethane in the LCS in batch 218566 were high, outside laboratory specified acceptance criteria. Since these compounds were not detected in the associated samples, no qualifications were applied to the data.

1.6 Surrogates

Acceptable surrogate recoveries were reported.

1.7 Trip Blank

One trip blank, TRIP BLANK#1, accompanied the samples. VOCs were not detected in the trip blank above the MDLs.

1.8 Field Duplicate

Two field duplicates were collected with the sample set. One field duplicate was analyzed for VOCs, DUPE 19. Acceptable precision [RPD <40% for results greater than five times the reporting limit (RL) and ±2 times the RL for results less than five times the RL] was demonstrated between the field duplicate and the original sample, WB3-4, S3, B 7282017.

1.9 Sensitivity

The samples were reported to the MDLs. No elevated non-detect results were reported.

The MDLs were at or below the NYSDEC DER10 App 5 Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010.

1.10 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The sample date and time were included in the sample IDs in the EDD and not included in the sample IDs in the laboratory report. No other discrepancies were identified between the level II report and the EDD.

2.0 SEMIVOLATILE ORGANIC COMPOUNDS

The samples were analyzed for SVOCs by EPA methods 3541/8270D.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

✓ Overall Assessment
✓ Holding Times
✓ Method Blank
⊗ Matrix Spike/Matrix Spike Duplicate
✓ Laboratory Control Sample
✓ Surrogates
⊗ Field Duplicate
✓ Sensitivity
✓ Electronic Data Deliverable Review

2.1 Overall Assessment

The SVOC data reported in this package are considered usable for meeting project objectives. The analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this package is 100%.

The narrative indicated that the CCV %Ds for 1,4-dioxane and pyridine in analytical batch 218855 and the CCV %Ds for hexachlorobutadiene and pyridine in analytical batch 219005 were high, outside method specified acceptance criteria, with high biases. Since 1,4-dioxane, hexachlorobutadiene and pyridine were not detected in the associated samples, no qualifications were applied to the data.

The narrative indicated that the CCV %D for benzo[g,h,i]perylene was high, outside method specified acceptance criteria in analytical batch 219005. The %D was 22.8%D, with a low bias; the method specified acceptance criteria is 20%D. Since the %D was within the validation guidance of 30%D, no qualifications were applied to the data.

2.2 Holding Times

The holding times for SVOC analysis of solid samples are 14 days from sample collection to extraction and 40 days from extraction to analysis. The holding times were met for the sample analyses.

2.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 218811). SVOCs were not detected in the method blank above the MDLs.

2.4 Matrix Spike/Matrix Spike Duplicate

MS/MSD pairs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). A sample set specific MS/MSD pair was reported, using sample WB3-4, S1, C 072817. The recovery and RPD results were within the laboratory specified acceptance criteria with the following exceptions.

The recoveries acenaphthylene, anthracene, benzo[k]fluoranthene, dibenz(a,h)anthracene, dibenzofuran, fluorene, indeno[1,2,3-cd]pyrene, naphthalene and pyridine were low outside, laboratory specified acceptance criteria and the RPD for pyridine was high, outside laboratory

specified acceptance criteria. Therefore, the concentrations of acenaphthylene, anthracene, benzo[k]fluoranthene, dibenz(a,h)anthracene, dibenzofuran, fluorene, indeno[1,2,3-cd]pyrene and naphthalene in sample WB3-4, S1, C 072817 were J qualified as estimated and the non-detect result of pyridine was UJ qualified as estimated less than the MDL.

In addition, the recoveries of benzo[a]anthracene, benzo[a]pyrene, benzo[b]fluoranthene, benzo[g,h,i]perylene, chrysene, fluoranthene, phenanthrene and pyrene were flagged by the laboratory with '4' in the laboratory report, indicating the concentrations of these compounds in the parent sample were more than four times the spike concentrations and the laboratory control limits are not applicable. Based on professional and technical judgment, the concentrations of benzo[a]anthracene, benzo[a]pyrene, benzo[b]fluoranthene, benzo[g,h,i]perylene and chrysene in sample WB3-4, S1, C 072817 were J qualified as estimated. Due to the differences between the sample and the spike concentrations and professional and technical judgment, no qualifications were applied to the fluoranthene, phenanthrene and pyrene data.

Sample ID	**Compound**	**Laboratory Concentration (mg/kg)**	**Laboratory Flag**	**Validation Concentration (mg/kg)**	**Validation Qualifier***	**Reason Code****
WB3-4, S1, C 072817	Acenaphthylene	0.82	F1	0.82	J	4
WB3-4, S1, C 072817	Anthracene	2.6	F1	2.6	J	4
WB3-4, S1, C 072817	Benzo[k]fluoranthene	1.5	F1	1.5	J	4
WB3-4, S1, C 072817	Dibenz(a,h)anthracene	0.61	F1	0.61	J	4
WB3-4, S1, C 072817	Dibenzofuran	0.54	F1	0.54	J	4
WB3-4, S1, C 072817	Fluorene	0.40	F1	0.40	J	4
WB3-4, S1, C 072817	Indeno[1,2,3-cd]pyrene	2.6	F1	2.6	J	4
WB3-4, S1, C 072817	Naphthalene	0.73	F1	0.73	J	4
WB3-4, S1, C 072817	Pyridine	0.014	U,F1,F2	0.014	UJ	4
WB3-4, S1, C 072817	Benzo[a]anthracene	4.9	NA	4.9	J	4
WB3-4, S1, C 072817	Benzo[a]pyrene	3.6	NA	3.6	J	4
WB3-4, S1, C 072817	Benzo[b]fluoranthene	4.8	NA	4.8	J	4
WB3-4, S1, C 072817	Benzo[g,h,i]perylene	2.9	NA	2.9	J	4

Sample ID	Compound	Laboratory Concentration (mg/kg)	Laboratory Flag	Validation Concentration (mg/kg)	Validation Qualifier*	Reason Code**
WB3-4, S1, C 072817	Chrysene	3.7	NA	3.7	J	4

mg/kg-milligrams per kilogram
U- laboratory flag indicating analyte was analyzed for but not detected above the MDL
F1-laboratory flag indicating the MS and/or MSD recovery is outside acceptance limits
F2-MS/MSD RPD exceeds control limits
NA-not applicable
* Validation qualifiers are defined in Attachment 1 at the end of this report
**Reason codes are defined in Attachment 2 at the end of this report

2.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery results were within the laboratory specified acceptance criteria.

2.6 Surrogates

Acceptable surrogate recoveries were reported.

2.7 Field Duplicate

Two field duplicates were collected with the sample set. One field duplicate was analyzed for SVOCs, DUPE 18. Acceptable precision (RPD <40% for results greater than five times the RL and ±2 times the RL for results less than five times the RL) was demonstrated between the field duplicate and the original sample, WB3-4, S1, C 072817, with the following exceptions.

The field duplicate acceptance criteria were not met for acenaphthene, acenaphthylene, anthracene, benzo[a]anthracene, benzo[a]pyrene, benzo[b]fluoranthene, benzo[g,h,i]perylene, benzo[k]fluoranthene, chrysene, dibenz(a,h)anthracene, dibenzofuran, fluoranthene, fluorene, indeno[1,2,3-cd]pyrene, naphthalene, phenanthrene and pyrene. Therefore, based on professional and technical judgment, the concentrations of these compounds in the field duplicate pair were J qualified as estimated. The qualifications due to the field duplicate results are summarized in Attachment 3 at the end of this document.

2.8 Sensitivity

Sample WB3-4, S1, C 072817 was reported from two dilutions, 4X and 20X. The concentrations of fluoranthene, phenanthrene and pyrene from the 4X dilution exceeded the instrument linear calibration range; therefore, the concentrations of fluoranthene, phenanthrene and pyrene from the

20X dilution are the concentrations to use; the other SVOC results for sample WB3-4, S1, C 072817 from the 4X dilution are the results to use. The use of the results is indicated in the EDD with qualifiers file.

The samples were reported to the MDLs. Elevated non-detect results were reported for samples DUPE 18, WB3-4, S1, C 072817, WB3-4, S2, C 072817 and WB3-4, S3, C 072817 due to the dilutions analyzed.

The MDLs were at or below the NYSDEC DER10 App 5 Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010. It was noted that no NYSDEC DER10 App 5 Constituent Levels for Imported Fill were listed for the following compounds.

2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dinitrotoluene
2-Methylphenol
Dibenzofuran
Hexachlorobenzene

Hexachlorobutadiene
Hexachloroethane
Methylphenol, 3 & 4
Nitrobenzene
Pyridine

2.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The sample date and time were included in the sample IDs in the EDD and not included in the sample IDs in the laboratory report. No other discrepancies were identified between the level II report and the EDD.

3.0 POLYCHLORINATED BIPHENYLS

The samples were analyzed for PCBs by EPA Methods 3541/8082A.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

⊗ Overall Assessment
✓ Holding Times
✓ Method Blank
✓ Matrix Spike/Matrix Spike Duplicate

- ✓ Laboratory Control Sample
- ✓ Surrogates
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

3.1 Overall Assessment

The PCB data reported in this data set are considered usable for meeting project objectives. The analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this data set is 100%.

The narrative indicated that the CCV %Ds for PCB 1016, PCB 1048 and PCB 1254 were high, outside method specified acceptance criteria in analytical batch 218956 on gas chromatography (GC) column RTX-CLP2. The associated sample results were reported from the other GC column, RTX-CLP1, which had acceptable CCV %Ds. Therefore, no qualifications were applied to the data.

The samples contain mixtures of PCBs 1248, 1254 and 1260. There are peaks in 1248 and 1254 that are in both of these PCBs and peaks in 1254 and 1260 that are in both of these PCBs; therefore, there is contribution between PCBs when more than one PCB is detected in a sample. Therefore, based on professional and technical judgment, the concentrations of PCBs 1248, 1254 and 1260 in these samples were J qualified as estimated.

Sample ID	Compound	Laboratory Concentration (mg/kg)	Laboratory Flag	Validation Concentration (mg/kg)	Validation Qualifier	Reason Code
DUPE 18	PCB-1248	1.4	NA	1.4	J	13
DUPE 18	PCB-1254	0.48	NA	0.48	J	13
DUPE 18	PCB-1260	0.072	NA	0.072	J	13
WB3-4, S1, C 072817	PCB-1248	0.78	NA	0.78	J	13
WB3-4, S1, C 072817	PCB-1254	0.29	NA	0.29	J	13
WB3-4, S1, C 072817	PCB-1260	0.049	NA	0.049	J	13
WB3-4, S2, C 072817	PCB-1248	4.4	NA	4.4	J	13
WB3-4, S2, C 072817	PCB-1254	1.4	NA	1.4	J	13
WB3-4, S2, C 072817	PCB-1260	0.18	NA	0.18	J	13
WB3-4, S3, C 072817	PCB-1248	2.4	NA	2.4	J	13
WB3-4, S3, C 072817	PCB-1254	0.84	NA	0.84	J	13
WB3-4, S3, C 072817	PCB-1260	0.099	NA	0.099	J	13

mg/kg-milligrams per kilograms
NA-not applicable

3.2 Holding Times

No holding times are listed in the referenced method for PCB analyses. The samples were extracted and analyzed within 6 days of collection. Therefore, no qualifications were applied to the data, based on professional and technical judgment.

3.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 218813). PCBs were not detected in the method blank above the MDLs.

3.4 Matrix Spike/Matrix Spike Duplicate

An MS/MSD pair was not reported.

3.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery results were within the laboratory specified acceptance criteria.

3.6 Surrogates

Acceptable surrogate recoveries were reported.

3.7 Field Duplicate

Two field duplicates were collected with the sample set. One field duplicate was analyzed for PCBs, DUPE 18. Acceptable precision (RPD <40% for results greater than five times the RL and ±2 times the RL for results less than five times the RL) was demonstrated between the field duplicate and the original sample, WB3-4, S1, C 072817, with the following exceptions.

The field duplicate acceptance criteria were not met for PCB-1248 and PCB-1254. Therefore, based on professional and technical judgment, the concentrations of PCB-1248 and PCB-1254 in the field duplicate pair were J qualified as estimated.

Sample	Compound	Laboratory Result (mg/kg)	Laboratory Flag	RPD	Validation Result (mg/kg)	Validation Qualifier	Reason Code
DUPE 18	PCB-1248	1.4	NA	57	1.4	J	7
WB3-4, S1, C 072817	PCB-1248	0.78	NA		0.78	J	7
DUPE 18	PCB-1254	0.48	NA	49	0.48	J	7
WB3-4, S1, C 072817	PCB-1254	0.29	NA		0.29	J	7

mg/kg-milligrams per kilograms
NA-not applicable

3.8 Sensitivity

The samples were reported to the MDLs. No elevated non-detect results were reported.

It was noted that no NYSDEC constituent levels were listed in the EDD for PCBs.

3.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The sample date and time were included in the sample IDs in the EDD and not included in the sample IDs in the laboratory report. No other discrepancies were identified between the level II report and the EDD.

4.0 METALS

The samples were analyzed for metals by EPA methods 3050B/6010C (Mercury evaluated separately in Section 5.0, below).

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

⊗ Overall Assessment
✓ Holding Times
✓ Method Blank
⊗ Matrix Spike/Matrix Spike Duplicate
✓ Laboratory Control Sample
✓ Laboratory Duplicate

- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

4.1 Overall Assessment

The metals data reported in this data set are considered usable for meeting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this data set is 100%.

The low level CCV percent recovery for selenium in analytical batch 218674 was high, outside laboratory specified acceptance criteria. Therefore, the concentration of selenium in the associated sample was J qualified as estimated.

Sample	Compound	Laboratory Result (mg/kg)	Laboratory Flag	Validation Result (mg/kg)	Validation Qualifier	Reason Code
WB3-4, S1, C 072817	Selenium	0.51	J^	0.51	J	9

mg/kg-milligrams per kilograms
J- result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value
^-laboratory flag indicating the instrument related QC is outside acceptance limits

4.2 Holding Times

The holding time for the metals analysis of solid samples is 180 days from sample collection to analysis. The holding times were met for the sample analyses.

4.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 218614). The metals were not detected in the method blank above the MDLs.

4.4 Matrix Spike/Matrix Spike Duplicate

MS/MSD pairs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). A sample set specific MS/MSD pair was reported, using sample WB3-4, S1, C 072817. The recovery and RPD results were within the laboratory specified acceptance criteria with the following exceptions.

The MSD recovery of copper was low and the recovery of lead was high, both outside laboratory specified acceptance criteria. Therefore, the concentration of copper in sample WB3-4, S1, C 072817 was J- qualified as estimated with a low bias and the concentration of lead was J+ qualified as estimated with a high bias.

Sample ID	Compound	Laboratory Concentration (mg/kg)	Laboratory Flag	Validation Concentration (mg/kg)	Validation Qualifier	Reason Code
WB3-4, S1, C 072817	Copper	56	F1	56	J-	4
WB3-4, S1, C 072817	Lead	55	F1	55	J+	4

mg/kg-milligrams per kilogram
F1-laboratory flag indicating the MS and/or MSD recovery is outside acceptance limits

4.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery results were within the laboratory specified acceptance criteria.

4.6 Laboratory Duplicate

A laboratory duplicate was not reported.

4.7 Field Duplicate

Two field duplicates were collected with the sample set. One field duplicate was analyzed for metals, DUPE 18. Acceptable precision (RPD <40% for results greater than five times the RL and ±2 times the RL for results less than five times the RL) was demonstrated between the field duplicate and the original sample, WB3-4, S1, C 072817.

4.8 Sensitivity

The samples were reported to the MDLs. No elevated non-detect results were reported.

The MDLs were at or below the NYSDEC DER10 App 5 Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010. It was noted that no NYSDEC constituent level was listed for chromium.

4.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The sample

date and time were included in the sample IDs in the EDD and not included in the sample IDs in the laboratory report. No other discrepancies were identified between the level II report and the EDD.

5.0 MERCURY

The samples were analyzed for mercury by EPA method 7471B.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

✓ Overall Assessment
✓ Holding Times
✓ Method Blank
⊗ Matrix Spike/Matrix Spike Duplicate
✓ Laboratory Control Sample
✓ Laboratory Duplicate
✓ Field Duplicate
✓ Sensitivity
✓ Electronic Data Deliverable Review

5.1 Overall Assessment

The mercury data reported in this data set are considered usable for meeting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this data set is 100%.

5.2 Holding Times

The holding time for the mercury analysis of solid samples is 28 days from sample collection to analysis. The holding times were met for the sample analyses.

5.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 218684). Mercury was not detected in the method blank above the MDL.

5.4 Matrix Spike/Matrix Spike Duplicate

MS/MSD pairs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). A sample set specific MS/MSD pair was reported, using sample WB3-4, S1, C 072817. The RPD results were within the laboratory specified acceptance criteria. The recoveries of mercury were high, outside laboratory specified acceptance criteria. Therefore, the concentration of mercury in sample WB3-4, S1, C 072817 was J+ qualified as estimated with a high bias.

Sample ID	Compound	Laboratory Concentration (mg/kg)	Laboratory Flag	Validation Concentration (mg/kg)	Validation Qualifier	Reason Code
WB3-4, S1, C 072817	Mercury	0.037	J, F1	0.037	J+	4

mg/kg-milligrams per kilogram
J- result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value
F1- laboratory flag indicating the MS and/or MSD recovery is outside acceptance limits

5.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery results were within the laboratory specified acceptance criteria.

5.6 Laboratory Duplicate

A laboratory duplicate was not reported.

5.7 Field Duplicate

Two field duplicates were collected with the sample set. One field duplicate was analyzed for mercury, DUPE 18. Acceptable precision (RPD <40% for results greater than five times the RL and ±2 times the RL for results less than five times the RL) was demonstrated between the field duplicate and the original sample, WB3-4, S1, C 072817.

5.8 Sensitivity

The samples were reported to the MDL. No elevated non-detect results were reported.

The MDL was at or below the NYSDEC DER10 App 5 Constituent Level for Imported Fill or Soil Restricted Residential Use May 2010.

5.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The sample date and time were included in the sample IDs in the EDD and not included in the sample IDs in the laboratory report. No other discrepancies were identified between the level II report and the EDD.

6.0 TOTAL CYANIDE

The samples were analyzed for total cyanide by EPA Methods 9010C/9014.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

6.1 Overall Assessment

The total cyanide data reported in this data set are considered usable for meeting project objectives. The analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this data set is 100%.

6.2 Holding Times

The holding time for the total cyanide analysis of solid samples is 14 days from sample collection to analysis. The holding times were met for the sample analyses.

6.3 Method Blanks

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 218907). Cyanide was not detected in the method blank above the MDL.

6.4 Matrix Spike

An MS/MSD pair was not reported.

6.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Three LCSs were reported. The recovery results were within the laboratory specified acceptance criteria.

6.6 Laboratory Duplicate

Laboratory duplicates were not reported.

6.7 Field Duplicate

Two field duplicates were collected with the sample set. One field duplicate was analyzed for cyanide, DUPE 18. Acceptable precision (RPD <40% for results greater than five times the RL and ±2 times the RL for results less than five times the RL) was demonstrated between the field duplicate and the original sample, WB3-4, S1, C 072817.

6.8 Sensitivity

The samples were reported to the MDL. No elevated non-detect results were reported.

The MDL was at or below the NYSDEC DER10 App 5 Constituent Level for Imported Fill or Soil Restricted Residential Use May 2010.

6.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The sample date and time were included in the sample IDs in the EDD and not included in the sample IDs in the laboratory report. No other discrepancies were identified between the level II report and the EDD.

* * * * *

ATTACHMENT 1
DATA VALIDATION QUALIFIER DEFINITIONS AND INTERPRETATION KEY
Assigned by Geosyntec's Data Validation Team

DATA QUALIFIER DEFINITIONS

U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

J+ The analyte was positively identified; however, the associated numerical value is likely to be higher that the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.

J- The analyte was positively identified; however, the associated numerical value is likely to be lower that the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ATTACHMENT 2
DATA VALIDATION REASON CODES
Assigned by Geosyntec's Data Validation Team

Valid Value	Description
1	Preservation requirement not met
2	Analysis holding time exceeded
3	Blank contamination (i.e., method, trip, equipment, etc.)
4	Matrix spike/matrix spike duplicate recovery or RPD outside limits
5	LCS recovery outside limits
6	Surrogate recovery outside limits
7	Field Duplicate RPD exceeded
8	Serial dilution percent difference exceeded
9	Calibration criteria not met
10	Linear range exceeded
11	Internal standard criteria not met
12	Lab duplicates RPD exceeded
13	Other

RPD-relative percent difference

ATTACHMENT 3
METHODS 3541/8270D DATA QUALIFICATIONS DUE TO FIELD DUPLICATE ASSESSMENT

Sample	Compound	Laboratory Result (mg/kg)	Laboratory Flag	RPD	Validation Result (mg/kg)	Validation Qualifier	Reason Code
DUPE 18	Acenaphthene	0.011	J	173	0.011	J	7
WB3-4, S1, C 072817	Acenaphthene	0.15	NA		0.15	J	7
DUPE 18	Acenaphthylene	0.040	NA	181	0.040	J	7
WB3-4, S1, C 072817	Acenaphthylene	0.82	F1		0.82	J	7
DUPE 18	Anthracene	0.080	NA	188	0.080	J	7
WB3-4, S1, C 072817	Anthracene	2.6	F1		2.6	J	7
DUPE 18	Benzo[a]anthracene	0.34	NA	174	0.34	J	7
WB3-4, S1, C 072817	Benzo[a]anthracene	4.9	NA		4.9	J	7
DUPE 18	Benzo[a]pyrene	0.30	NA	169	0.30	J	7
WB3-4, S1, C 072817	Benzo[a]pyrene	3.6	NA		3.6	J	7
DUPE 18	Benzo[b]fluoranthene	0.41	NA	169	0.41	J	7
WB3-4, S1, C 072817	Benzo[b]fluoranthene	4.8	NA		4.8	J	7
DUPE 18	Benzo[g,h,i]perylene	0.27	NA	166	0.27	J	7
WB3-4, S1, C 072817	Benzo[g,h,i]perylene	2.9	NA		2.9	J	7
DUPE 18	Benzo[k]fluoranthene	0.15	NA	164	0.15	J	7
WB3-4, S1, C 072817	Benzo[k]fluoranthene	1.5	F1		1.5	J	7
DUPE 18	Chrysene	0.31	NA	169	0.31	J	7
WB3-4, S1, C 072817	Chrysene	3.7	NA		3.7	J	7

Sample	Compound	Laboratory Result (mg/kg)	Laboratory Flag	RPD	Validation Result (mg/kg)	Validation Qualifier	Reason Code
DUPE 18	Dibenz(a,h)anthracene	0.067	NA	160	0.067	J	7
WB3-4, S1, C 072817	Dibenz(a,h)anthracene	0.61	F1		0.61	J	7
DUPE 18	Dibenzofuran	0.042	J	171	0.042	J	7
WB3-4, S1, C 072817	Dibenzofuran	0.54	F1		0.54	J	7
DUPE 18	Fluoranthene	0.51	NA	177	0.51	J	7
WB3-4, S1, C 072817	Fluoranthene	8.4	NA		8.4	J	7
DUPE 18	Fluorene	0.016	J	185	0.016	J	7
WB3-4, S1, C 072817	Fluorene	0.40	F1		0.40	J	7
DUPE 18	Indeno[1,2,3-cd]pyrene	0.23	NA	167	0.23	J	7
WB3-4, S1, C 072817	Indeno[1,2,3-cd]pyrene	2.6	F1		2.6	J	7
DUPE 18	Naphthalene	0.096	NA	154	0.096	J	7
WB3-4, S1, C 072817	Naphthalene	0.73	F1		0.73	J	7
DUPE 18	Phenanthrene	0.28	NA	187	0.28	J	7
WB3-4, S1, C 072817	Phenanthrene	8.3	NA		8.3	J	7
DUPE 18	Pyrene	0.62	NA	175	0.62	J	7
WB3-4, S1, C 072817	Pyrene	9.3	NA		9.3	J	7

mg/kg-milligrams per kilogram
J- result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value
F1-laboratory flag indicating the MS and/or MSD recovery is outside acceptance limits
NA-not applicable

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Memorandum

Date:	16 August 2017
To:	Aron Krasnopoler
From:	Chris Pracheil
CC:	J. Caprio
Subject:	**Stage 2A Data Validation - Level II Data Deliverable, TestAmerica Job ID # 180-68756-1**

SITE: Former Sperry Remington Site-North IRM

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of twelve solid samples, one field duplicate and one trip blank, collected July 31, 2017, as part of the Former Sperry Remington Site-North IRM project. The analyses were performed at TestAmerica Laboratories, Inc., Pittsburgh, Pennsylvania. The samples were analyzed for the following tests:

- Volatile Organic Compounds (VOCs) by EPA Methods 8260C and 5035/8260C
- Semivolatile Organic Compounds (SVOCs) by EPA Methods 3541/8270D
- Polychlorinated Biphenyls (PCBs) by EPA Methods 3541/8082A
- Metals by EPA Methods 3050B/6010C
- Mercury by EPA Method 7471B
- Total Cyanide by EPA Methods 9010C/9014
- Total Solids by Standard Method 2540G

EXECUTIVE SUMMARY

The samples were handled, prepared, and measured in the same manner under similar prescribed conditions.

Overall, based on this Stage 2A data validation covering the quality control (QC) parameters listed below, the data as qualified are usable for meeting project objectives. Qualified data should be used within the limitations of the qualification.

The data were validated based on the Quality Assurance Project Plan (QAPP) for Former Sperry Remington Facility Industrial Outfall Site, Elmira, New York, NYSDEC Site I.D. # 808043,

NY09-2480-04, July 7, 2010, Revised November 11, 2010, USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review, January 2017 (EPA 540-R-2017-002), USEPA Contract Laboratory Program National Functional Guidelines for Superfund Inorganic Methods Data Review, January 2017 (EPA 540-R-2017-001), the pertinent methods referenced by the laboratory report and professional and technical judgment.

The following samples were analyzed and validated at Stage 2A level in the data set:

Laboratory ID	Client ID
180-68756-1	W1-b, S1, A 073117
180-68756-2	W1-b, S1, B 073117
180-68756-3	W1-b, S1, C 073117
180-68756-4	W1-b, S2, A 073117
180-68756-5	W1-b, S2, B 073117
180-68756-6	W1-b, S2, C 073117
180-68756-7	W1-b, S3, A 073117

Laboratory ID	Client ID
180-68756-8	W1-b, S3, B 073117
180-68756-9	W1-b, S3, C 073117
180-68756-10	W1-b, S4, A 073117
180-68756-11	W1-b, S4, B 073117
180-68756-12	W1-b, S4, C 073117
180-68756-17	TRIP BLANK #1
180-68756-18	DUP 20

The samples were received at the laboratory at 3.1°C and 3.6 °C within the criteria of 0-6°C. No sample preservation issues were noted by the laboratory.

The following sample receiving issues were noted:

- Incorrect error corrections were observed on the chain of custody (COC), instead of the proper procedure of a single strike through, correction, and initials and date of person making the corrections.

- There was rush sticker on the COC, obliterating part of the analysis request section of the COC.

- Sample collection times were not documented on the COC for field duplicate sample DUP 20 and Trip Blank #1. The laboratory assigned collection times of 00:00.

- Samples DUP 21, WB4-5, S1, A 073117, WB4-5, S1, C 073117, WB4-5, S2, A 073117 and WB4-5, S2, C 073117 were listed on the COC and reported in laboratory report 180-68756-2.

The solids data, used to report the samples on a dry weight basis, were not validated.

1.0 VOLATILE ORGANIC COMPOUNDS

The samples were analyzed for VOCs by EPA methods 8260C and 5035/8260C.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Surrogates
- ✓ Trip Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

1.1 Overall Assessment

The VOC data reported in this package are considered usable for meeting project objectives. The analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this package is 100%.

The narrative indicated that the continuing calibration verification (CCV) percent differences (%Ds) for 1,1,1-trichloroethane and 1,2-dichloroethane were high, outside method specified acceptance criteria, with high biases in analytical batch 218817. The %Ds were 21.4%D and 20.9%D, respectively. Since these two compounds were not detected in the associated samples, no qualifications were applied to the data. In addition, the CCV %D for 2-butanone was high, outside method specified acceptance criteria in analytical batch 218817, with a low bias. The %D was 23.4%. Since the %D was within the validation guidance acceptance criteria of 40%D, no qualifications were applied to the data.

1.2 Holding Times

The holding times for the VOC analysis of a solid sample collected using a Terracore are 48 hours from collection to laboratory receipt and 14 days from sample collection to analysis. The holding time for the VOC analysis of a preserved water sample is 14 days from sample collection to analysis. The holding times were met for the sample analyses.

1.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two method blanks were reported (batches 218804 and 218835). VOCs were not detected in the method blanks above the method detection limits (MDLs).

1.4 Matrix Spike/Matrix Spike Duplicate (MS/MSD)

An MS/MSD pair was not reported.

1.5 Laboratory Control Sample (LCS)

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two LCSs were reported. The recovery results were within the laboratory specified acceptance criteria.

1.6 Surrogates

Acceptable surrogate recoveries were reported.

1.7 Trip Blank

One trip blank, TRIP BLANK#1, accompanied the samples. VOCs were not detected in the trip blank above the MDLs, with the following exceptions.

Acetone and toluene were detected at estimated concentrations greater than the MDLs and less than the RLs in the trip blank. Since acetone and toluene were not detected in the associated samples, no qualifications were applied to the data.

1.8 Field Duplicate

A field duplicate, DUP 20 was collected with the sample set. Acceptable precision [relative percent difference (RPD) <40% for results greater than five times the reporting limit (RL) and ±2 times the RL for results less than five times the RL] was demonstrated between the field duplicate and the original sample, W1-b, S4, A 073117.

1.9 Sensitivity

The samples were reported to the MDLs. No elevated non-detect results were reported.

The MDLs were at or below the NYSDEC DER10 App 5 Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010.

1.10 Electronic Data Deliverable (EDD) Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The sample date and time were included in the sample IDs in the EDD and not included in the sample IDs in the laboratory report. No other discrepancies were identified between the level II report and the EDD.

2.0 SEMIVOLATILE ORGANIC COMPOUNDS

The samples were analyzed for SVOCs by EPA methods 3541/8270D.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Surrogates
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

2.1 Overall Assessment

The SVOC data reported in this package are considered usable for meeting project objectives. The analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this package is 100%.

2.2 Holding Times

The holding times for SVOC analysis of solid samples are 14 days from sample collection to extraction and 40 days from extraction to analysis. The holding times were met for the sample analyses.

2.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 218783). SVOCs were not detected in the method blank above the MDLs.

2.4 Matrix Spike/Matrix Spike Duplicate

An MS/MSD pair was not reported.

2.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS/LCS duplicate (LCSD) pair was reported. The recovery and RPD results were within the laboratory specified acceptance criteria.

2.6 Surrogates

Acceptable surrogate recoveries were reported.

2.7 Field Duplicate

A field duplicate was collected, but not analyzed for SVOCs.

2.8 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were reported for samples W1-b, S1, C 073117, W1-b, S2, C 073117, W1-b, S3, C 073117 and W1-b, S4, C 073117 due to the dilutions analyzed.

The MDLs were at or below the NYSDEC DER10 App 5 Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010. It was noted that no NYSDEC DER10 App 5 Constituent Levels for Imported Fill were listed for the following compounds:

2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dinitrotoluene
2-Methylphenol
Dibenzofuran
Hexachlorobenzene

Hexachlorobutadiene
Hexachloroethane
Methylphenol, 3 & 4
Nitrobenzene
Pyridine

2.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The sample date and time were included in the sample IDs in the EDD and not included in the sample IDs in the laboratory report. No other discrepancies were identified between the level II report and the EDD.

3.0 POLYCHLORINATED BIPHENYLS

The samples were analyzed for PCBs by EPA Methods 3541/8082A.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

⊗ Overall Assessment
✓ Holding Times
✓ Method Blank
✓ Matrix Spike/Matrix Spike Duplicate
✓ Laboratory Control Sample
✓ Surrogates
✓ Field Duplicate
✓ Sensitivity
✓ Electronic Data Deliverable Review

3.1 Overall Assessment

The PCB data reported in this data set are considered usable for meeting project objectives. The analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this data set is 100%.

The samples contain mixtures of PCBs 1248, 1254 and 1260. There are peaks in 1248 and 1254 that are in both of these PCBs and peaks in 1254 and 1260 that are in both of these PCBs; therefore, there is contribution between PCBs when more than one PCB is detected in a sample. Therefore, based on professional and technical judgment, the concentrations of PCBs 1248, 1254 and 1260 in these samples were J qualified as estimated.

Sample ID	Compound	Laboratory Concentration (mg/kg)	Laboratory Flag	Validation Concentration (mg/kg)	Validation Qualifier	Reason Code
W1-b, S1, C 073117	PCB-1248	9.1	NA	9.1	J	13
W1-b, S1, C 073117	PCB-1254	4.7	NA	4.7	J	13
W1-b, S1, C 073117	PCB-1260	0.96	NA	0.96	J	13
W1-b, S2, C 073117	PCB-1248	3.2	NA	3.2	J	13
W1-b, S2, C 073117	PCB-1254	2.0	NA	2.0	J	13
W1-b, S2, C 073117	PCB-1260	0.34	NA	0.34	J	13
W1-b, S3, C 073117	PCB-1248	0.83	NA	0.83	J	13
W1-b, S3, C 073117	PCB-1254	0.60	NA	0.60	J	13
W1-b, S3, C 073117	PCB-1260	0.14	NA	0.14	J	13
W1-b, S4, C 073117	PCB-1248	1.0	NA	1.0	J	13
W1-b, S4, C 073117	PCB-1254	0.65	NA	0.65	J	13
W1-b, S4, C 073117	PCB-1260	0.15	NA	0.15	J	13

mg/kg-milligrams per kilograms
NA-not applicable

3.2 Holding Times

No holding times are listed in the referenced method for PCB analyses. The samples were extracted and analyzed within 4 days of collection. Therefore, no qualifications were applied to the data, based on professional and technical judgment.

3.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 218784). PCBs were not detected in the method blank above the MDLs.

3.4 Matrix Spike/Matrix Spike Duplicate

An MS/MSD pair was not reported.

3.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS/LCSD pair was reported. The recovery and RPD results were within the laboratory specified acceptance criteria.

3.6 Surrogates

Acceptable surrogate recoveries were reported.

3.7 Field Duplicate

A field duplicate was collected, but not analyzed for PCBs.

3.8 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were reported for sample W1-b, S1, C 073117 due to the dilution analyzed.

It was noted that no NYSDEC constituent levels were listed for PCBs.

3.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The sample date and time were included in the sample IDs in the EDD and not included in the sample IDs in the laboratory report. No other discrepancies were identified between the level II report and the EDD.

4.0 METALS

The samples were analyzed for metals by EPA methods 3050B/6010C (Mercury evaluated separately in Section 5.0, below).

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times

- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

4.1 Overall Assessment

The metals data reported in this data set are considered usable for meeting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this data set is 100%.

4.2 Holding Times

The holding time for the metals analysis of a solid sample is 180 days from sample collection to analysis. The holding times were met for the sample analyses.

4.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 218882). The metals were not detected in the method blank above the MDLs.

4.4 Matrix Spike/Matrix Spike Duplicate

An MS/MSD pair was not reported.

4.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery results were within the laboratory specified acceptance criteria.

4.6 Laboratory Duplicate

A laboratory duplicate was not reported.

4.7 Field Duplicate

A field duplicate was collected, but not analyzed for metals.

4.8 Sensitivity

The samples were reported to the MDLs. No elevated non-detect results were reported.

The MDLs were at or below the NYSDEC DER10 App 5 Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010. It was noted that no NYSDEC constituent level was listed for chromium.

4.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The sample date and time were included in the sample IDs in the EDD and not included in the sample IDs in the laboratory report. No other discrepancies were identified between the level II report and the EDD.

5.0 MERCURY

The samples were analyzed for mercury by EPA method 7471B.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

✓ Overall Assessment
✓ Holding Times
✓ Method Blank
⊗ Matrix Spike/Matrix Spike Duplicate
✓ Laboratory Control Sample
✓ Laboratory Duplicate
✓ Field Duplicate
✓ Sensitivity
✓ Electronic Data Deliverable Review

5.1 Overall Assessment

The mercury data reported in this data set are considered usable for meeting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this data set is 100%.

5.2 Holding Times

The holding time for the mercury analysis of solid samples is 28 days from sample collection to analysis. The holding times were met for the sample analyses.

5.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 218756). Mercury was not detected in the method blank above the MDL.

5.4 Matrix Spike/Matrix Spike Duplicate

MS/MSD pairs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). A sample set specific MS/MSD pair was reported, using sample W1-b, S1, C 073117. The recoveries of mercury were low and the RPD was high, outside the laboratory specified acceptance criteria. Therefore, the concentration of mercury in sample W1-b, S1, C 073117 was J qualified as estimated.

Sample ID	Compound	Laboratory Concentration (mg/kg)	Laboratory Flag	Validation Concentration (mg/kg)	Validation Qualifier	Reason Code
W1-b, S1, C 073117	Mercury	0.058	F1, F2	0.058	J	4

mg/kg-milligrams per kilogram
F1-laboratory flag indicating the MS and/or MSD recovery is outside acceptance limits
F2-laboratory flag indicating the MS/MSD RPD exceeds control limits

5.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery results were within the laboratory specified acceptance criteria.

5.6 Laboratory Duplicate

A laboratory duplicate was not reported.

5.7 Field Duplicate

A field duplicate was collected, but not analyzed for mercury.

5.8 Sensitivity

The samples were reported to the MDL. No elevated non-detect results were reported.

The MDL was at or below the NYSDEC DER10 App 5 Constituent Level for Imported Fill or Soil Restricted Residential Use May 2010.

5.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The sample date and time were included in the sample IDs in the EDD and not included in the sample IDs in the laboratory report. No other discrepancies were identified between the level II report and the EDD.

6.0 TOTAL CYANIDE

The samples were analyzed for total cyanide by EPA Methods 9010C/9014.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

6.1 Overall Assessment

The total cyanide data reported in this data set are considered usable for meeting project objectives. The analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this data set is 100%.

6.2 Holding Times

The holding time for the total cyanide analysis of solid samples is 14 days from sample collection to analysis. The holding times were met for the sample analyses.

6.3 Method Blanks

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 218907). Cyanide was not detected in the method blank above the MDL.

6.4 Matrix Spike/Matrix Spike Duplicate

An MS/MSD pair was not reported.

6.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Three LCSs were reported. The recovery results were within the laboratory specified acceptance criteria.

6.6 Laboratory Duplicate

Laboratory duplicates were not reported.

6.7 Field Duplicate

A field duplicate was collected, but not analyzed for cyanide.

6.8 Sensitivity

The samples were reported to the MDL. No elevated non-detect results were reported.

The MDL was at or below the NYSDEC DER10 App 5 Constituent Level for Imported Fill or Soil Restricted Residential Use May 2010.

6.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The sample date and time were included in the sample IDs in the EDD and not included in the sample IDs in the laboratory report. No other discrepancies were identified between the level II report and the EDD.

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ATTACHMENT 1
DATA VALIDATION QUALIFIER DEFINITIONS AND INTERPRETATION KEY
Assigned by Geosyntec's Data Validation Team

DATA QUALIFIER DEFINITIONS

U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

J+ The analyte was positively identified; however, the associated numerical value is likely to be higher that the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.

J- The analyte was positively identified; however, the associated numerical value is likely to be lower that the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ATTACHMENT 2
DATA VALIDATION REASON CODES
Assigned by Geosyntec's Data Validation Team

Valid Value	Description
1	Preservation requirement not met
2	Analysis holding time exceeded
3	Blank contamination (i.e., method, trip, equipment, etc.)
4	Matrix spike/matrix spike duplicate recovery or RPD outside limits
5	LCS recovery outside limits
6	Surrogate recovery outside limits
7	Field Duplicate RPD exceeded
8	Serial dilution percent difference exceeded
9	Calibration criteria not met
10	Linear range exceeded
11	Internal standard criteria not met
12	Lab duplicates RPD exceeded
13	Other

RPD-relative percent difference

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Memorandum

Date:	16 August 2017
To:	Aron Krasnopoler
From:	Chris Pracheil
CC:	J. Caprio
Subject:	**Stage 2A Data Validation - Level II Data Deliverable, TestAmerica Job ID # 180-68814-2**

SITE: Former Sperry Remington Site-North IRM

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of six solid and one trip blank, collected August 01, 2017, as part of the Former Sperry Remington Site-North IRM project. The analyses were performed at TestAmerica Laboratories, Inc., Pittsburgh, Pennsylvania. The samples were analyzed for the following tests:

- Volatile Organic Compounds (VOCs) by EPA Methods 8260C and 5035/8260C
- Semivolatile Organic Compounds (SVOCs) by EPA Methods 3541/8270D
- Polychlorinated Biphenyls (PCBs) by EPA Methods 3541/8082A
- Metals by EPA Methods 3050B/6010C
- Mercury by EPA Method 7471B
- Total Cyanide by EPA Methods 9010C/9014
- Total Solids by Standard Method 2540G

EXECUTIVE SUMMARY

The samples were handled, prepared, and measured in the same manner under similar prescribed conditions.

Overall, based on this Stage 2A data validation covering the quality control (QC) parameters listed below, the data as qualified are usable for meeting project objectives. Qualified data should be used within the limitations of the qualification.

The data were validated based on the Quality Assurance Project Plan (QAPP) for Former Sperry Remington Facility Industrial Outfall Site, Elmira, New York, NYSDEC Site I.D. # 808043,

NY09-2480-04, July 7, 2010, Revised November 11, 2010, USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review, January 2017 (EPA 540-R-2017-002), USEPA Contract Laboratory Program National Functional Guidelines for Superfund Inorganic Methods Data Review, January 2017 (EPA 540-R-2017-001), the pertinent methods referenced by the laboratory report and professional and technical judgment.

The following samples were analyzed and validated at Stage 2A level in the data set:

Laboratory ID	Client ID
180-68814-11	WB2-3, S1, A 08.01.17
180-68814-12	WB2-3, S1, B 08.01.17
180-68814-13	WB2-3, S1, C 08.01.17
180-68814-14	WB2-3, S2, A 08.01.17

Laboratory ID	Client ID
180-68814-15	WB2-3, S2, B 08.01.17
180-68814-16	WB2-3, S2, C 08.01.17
180-68814-17	TRIP BLANK #1

The samples were received at the laboratory at 2.7°C within the criteria of 0-6°C. No sample preservation issues were noted by the laboratory.

The following sample receiving issues were noted:

- Incorrect error corrections were observed on the chain of custody (COC), instead of the proper procedure of a single strike through, correction, and initials and date of person making the corrections.

- There was rush sticker on the COC, obliterating part of the analysis request section of the COC.

- The sample collection time was not documented on the COC for Trip Blank #1. The laboratory assigned collection time of 00:00 to the trip blank.

- Samples WB4-5, S3, A 08.01.17; WB4-5, S3, C 08.01.17; WB4-5, S4, A 08.01.17; WB4-5, S4, C 08.01.17; W9, S5, A 08.01.17; W9, S5, C 08.01.17; WB5-6, S2, A 08.01.17; WB5-6, S2, C 08.01.17; WB5-6, S3, A 08.01.17 and WB5-6, S3, C 08.01.17 were listed on the COC and reported in laboratory report 180-68814-1.

The solids data, used to report the samples on a dry weight basis, were not validated.

1.0 VOLATILE ORGANIC COMPOUNDS

The samples were analyzed for VOCs by EPA methods 8260C and 5035/8260C.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Surrogates
- ✓ Trip Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

1.1 Overall Assessment

The VOC data reported in this package are considered usable for meeting project objectives. The analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this package is 100%.

The narrative indicated that the continuing calibration verification (CCV) percent difference (%D) for 2-butanone was high, outside method specified acceptance criteria in analytical batch 218968. The %D was 20.8%D with a low bias. Since the %D was within the validation guidance acceptance criteria of 40%D, no qualifications were applied to the data.

1.2 Holding Times

The holding times for the VOC analysis of a solid sample collected using a Terracore are 48 hours from collection to laboratory receipt and 14 days from sample collection to analysis. The holding time for the VOC analysis of a preserved water sample is 14 days from sample collection to analysis. The holding times were met for the sample analyses.

1.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two method blanks were reported (batches 218943 and 218980). VOCs were not detected in the method blanks above the method detection limits (MDLs).

1.4 Matrix Spike/Matrix Spike Duplicate (MS/MSD)

An MS/MSD pair was not reported.

1.5 Laboratory Control Sample (LCS)

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS and one LCS/LCS duplicate (LCSD) pair were reported. The recovery and relative percent difference (RPD) results were within the laboratory specified acceptance criteria.

1.6 Surrogates

Acceptable surrogate recoveries were reported.

1.7 Trip Blank

One trip blank, TRIP BLANK#1, accompanied the samples. VOCs were not detected in the trip blank above the MDLs, with the following exception.

Acetone was detected at an estimated concentration, greater than the MDL and less than the reporting limit (RL) in the trip blank. Since acetone was not detected in the associated samples, no qualifications were applied to the data.

1.8 Field Duplicate

A field duplicate was not collected with the sample set.

1.9 Sensitivity

The samples were reported to the MDLs. No elevated non-detect results were reported.

The MDLs were at or below the NYSDEC DER10 App 5 Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010.

1.10 Electronic Data Deliverable (EDD) Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The sample date and time were included in the sample IDs in the EDD and not included in the sample IDs in

the laboratory report. No other discrepancies were identified between the level II report and the EDD.

2.0 SEMIVOLATILE ORGANIC COMPOUNDS

The samples were analyzed for SVOCs by EPA methods 3541/8270D.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

✓ Overall Assessment
✓ Holding Times
✓ Method Blank
⊗ Matrix Spike/Matrix Spike Duplicate
✓ Laboratory Control Sample
✓ Surrogates
✓ Field Duplicate
✓ Sensitivity
✓ Electronic Data Deliverable Review

2.1 Overall Assessment

The SVOC data reported in this package are considered usable for meeting project objectives. The analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this package is 100%.

The narrative indicated that the CCV %Ds for 1,4-dioxane and pyridine in analytical batch 219126 and the CCV %Ds for 1,4-dioxane, hexachlorobutadiene and pyridine in analytical batch 219211 were high, outside method specified acceptance criteria, with high biases. Since these compounds were not detected in the associated samples, no qualifications were applied to the data.

2.2 Holding Times

The holding times for SVOC analysis of solid samples are 14 days from sample collection to extraction and 40 days from extraction to analysis. The holding times were met for the sample analyses.

2.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 219075). SVOCs were not detected in the method blank above the MDLs.

2.4 Matrix Spike/Matrix Spike Duplicate

MS/MSD pairs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). A sample set specific MS/MSD pair was reported, using sample WB2-3, S1, C 08.01.17. The recovery and RPD results were within the laboratory specified acceptance criteria with the following exceptions.

The MS recoveries and RPDs of anthracene, benzo[a]anthracene, benzo[a]pyrene, benzo[b]fluoranthene, benzo[g,h,i]perylene, chrysene, fluoranthene, indeno[1,2,3-cd]pyrene, phenanthrene and pyrene were high and the MS/MSD recoveries of pyridine were low, outside laboratory specified acceptance criteria. Additionally, the RPD of benzo[k]fluoranthene was high, outside laboratory specified acceptance criteria. Therefore, the concentrations of anthracene, benzo[a]anthracene, benzo[a]pyrene, benzo[b]fluoranthene, benzo[g,h,i]perylene, benzo[k]fluoranthene, chrysene, fluoranthene, indeno[1,2,3-cd]pyrene, phenanthrene and pyrene were J qualified as estimated and the non-detect result of pyridine was UJ qualified as estimated less than the MDL in sample WB2-3, S1, C 08.01.17.

Sample ID	Compound	Laboratory Concentration (mg/kg)	Laboratory Flag	Validation Concentration (mg/kg)	Validation Qualifier*	Reason Code**
WB2-3, S1, C 08.01.17	Anthracene	0.13	F2,F1	0.13	J	4
WB2-3, S1, C 08.01.17	Benzo[a]anthracene	0.38	F2,F1	0.38	J	4
WB2-3, S1, C 08.01.17	Benzo[a]pyrene	0.38	F2,F1	0.38	J	4
WB2-3, S1, C 08.01.17	Benzo[b]fluoranthene	0.52	F2,F1	0.52	J	4
WB2-3, S1, C 08.01.17	Benzo[g,h,i]perylene	0.34	F2,F1	0.34	J	4
WB2-3, S1, C 08.01.17	Benzo[k]fluoranthene	0.16	F2	0.16	J	4
WB2-3, S1, C 08.01.17	Chrysene	0.43	F2,F1	0.43	J	4
WB2-3, S1, C 08.01.17	Fluoranthene	0.63	F2,F1	0.63	J	4
WB2-3, S1, C 08.01.17	Indeno[1,2,3-cd]pyrene	0.31	F2,F1	0.31	J	4

Sample ID	Compound	Laboratory Concentration (mg/kg)	Laboratory Flag	Validation Concentration (mg/kg)	Validation Qualifier*	Reason Code**
WB2-3, S1, C 08.01.17	Phenanthrene	0.33	F2,F1	0.33	J	4
WB2-3, S1, C 08.01.17	Pyrene	0.57	F2,F1	0.57	J	4
WB2-3, S1, C 08.01.17	Pyridine	3.6	U,F1	3.6	UJ	4

mg/kg-milligrams per kilogram
U- laboratory flag indicating analyte was analyzed for but not detected above the MDL
F1-laboratory flag indicating the MS and/or MSD recovery is outside acceptance limits
F2- laboratory flag indicating the MS/MSD RPD exceeds control limits
* Validation qualifiers are defined in Attachment 1 at the end of this report
**Reason codes are defined in Attachment 2 at the end of this report

2.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery results were within the laboratory specified acceptance criteria.

2.6 Surrogates

Acceptable surrogate recoveries were reported.

2.7 Field Duplicate

A field duplicate was not collected with the sample set.

2.8 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were reported for sample WB2-3, S2, C 08.01.17 due to the dilution analyzed.

The MDLs were at or below the NYSDEC DER10 App 5 Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010. It was noted that no NYSDEC DER10 App 5 Constituent Levels for Imported Fill were listed for the following compounds:

2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dinitrotoluene
2-Methylphenol

Dibenzofuran
Hexachlorobenzene
Hexachlorobutadiene
Hexachloroethane

Methylphenol, 3 & 4	Pyridine
Nitrobenzene	

2.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The sample date and time were included in the sample IDs in the EDD and not included in the sample IDs in the laboratory report. No other discrepancies were identified between the level II report and the EDD.

3.0 POLYCHLORINATED BIPHENYLS

The samples were analyzed for PCBs by EPA Methods 3541/8082A.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

⊗ Overall Assessment
✓ Holding Times
✓ Method Blank
✓ Matrix Spike/Matrix Spike Duplicate
✓ Laboratory Control Sample
✓ Surrogates
✓ Field Duplicate
✓ Sensitivity
✓ Electronic Data Deliverable Review

3.1 Overall Assessment

The PCB data reported in this data set are considered usable for meeting project objectives. The analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this data set is 100%.

The narrative indicated that the CCV %D for PCB 1016 were high, outside method specified acceptance criteria in analytical batch 219079 on gas chromatography (GC) column RTX-CLP2. The associated sample results were reported from the other GC column, which had an acceptable CCV %D. Therefore, no qualifications were applied to the data.

The narrative also indicated that sample WB2-3, S1, C 08.01.17 exhibited a slight retention time shift for the internal standards, surrogates, and Aroclor peaks. As the patterns for the Aroclors were clearly present, no qualifications were applied to the data, based on technical and professional judgement.

The samples contain mixtures of PCBs 1248, 1254 and 1260. There are peaks in 1248 and 1254 that are in both of these PCBs and peaks in 1254 and 1260 that are in both of these PCBs; therefore, there is contribution between PCBs when more than one PCB is detected in a sample. Therefore, based on professional and technical judgment, the concentrations of PCBs 1248, 1254 and 1260 in these samples were J qualified as estimated.

Sample ID	Compound	Laboratory Concentration (mg/kg)	Laboratory Flag	Validation Concentration (mg/kg)	Validation Qualifier	Reason Code
WB2-3, S1, C 08.01.17	PCB-1248	2.3	*	2.3	J	13
WB2-3, S1, C 08.01.17	PCB-1254	1.4	*	1.4	J	13
WB2-3, S1, C 08.01.17	PCB-1260	0.20	*	0.20	J	13
WB2-3, S2, C 08.01.17	PCB-1248	2.3	NA	2.3	J	13
WB2-3, S2, C 08.01.17	PCB-1254	1.1	NA	1.1	J	13
WB2-3, S2, C 08.01.17	PCB-1260	0.32	NA	0.32	J	13

mg/kg-milligrams per kilograms
*-laboratory flag indicating the internal standard response or retention time is outside acceptable limits
NA-not applicable

3.2 Holding Times

No holding times are listed in the referenced method for PCB analyses. The samples were extracted and analyzed within 4 days of collection. Therefore, no qualifications were applied to the data, based on professional and technical judgment.

3.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 219077). PCBs were not detected in the method blank above the MDLs.

3.4 Matrix Spike/Matrix Spike Duplicate

An MS/MSD pair was not reported.

3.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS/LCSD pair was reported. The recovery and RPD results were within the laboratory specified acceptance criteria.

3.6 Surrogates

Acceptable surrogate recoveries were reported.

3.7 Field Duplicate

A field duplicate was not collected with the sample set.

3.8 Sensitivity

The samples were reported to the MDLs. No elevated non-detect results were reported.

It was noted that no NYSDEC constituent levels were listed for PCBs.

3.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The sample date and time were included in the sample IDs in the EDD and not included in the sample IDs in the laboratory report. No other discrepancies were identified between the level II report and the EDD.

4.0 METALS

The samples were analyzed for metals by EPA methods 3050B/6010C (Mercury evaluated separately in Section 5.0, below).

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank

- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

4.1 Overall Assessment

The metals data reported in this data set are considered usable for meeting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this data set is 100%.

The low level CCV percent recovery for selenium in analytical batch 218674 was high, outside laboratory specified acceptance criteria. Since selenium was not detected in the associated samples, no qualifications were applied to the data.

4.2 Holding Times

The holding time for the metals analysis of a solid sample is 180 days from sample collection to analysis. The holding times were met for the sample analyses.

4.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 218989). The metals were not detected in the method blank above the MDLs.

4.4 Matrix Spike/Matrix Spike Duplicate

An MS/MSD pair was not reported.

4.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery results were within the laboratory specified acceptance criteria.

4.6 Laboratory Duplicate

A laboratory duplicate was not reported.

4.7 Field Duplicate

A field duplicate was not collected with the sample set.

4.8 Sensitivity

The samples were reported to the MDLs. No elevated non-detect results were reported.

The MDLs were at or below the NYSDEC DER10 App 5 Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010. It was noted that no NYSDEC constituent level was listed for chromium.

4.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The sample date and time were included in the sample IDs in the EDD and not included in the sample IDs in the laboratory report. No other discrepancies were identified between the level II report and the EDD.

5.0 MERCURY

The samples were analyzed for mercury by EPA method 7471B.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

✓ Overall Assessment
✓ Holding Times
✓ Method Blank
⊗ Matrix Spike/Matrix Spike Duplicate
✓ Laboratory Control Sample
✓ Laboratory Duplicate
✓ Field Duplicate
✓ Sensitivity

✓ Electronic Data Deliverable Review

5.1 Overall Assessment

The mercury data reported in this data set are considered usable for meeting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this data set is 100%.

5.2 Holding Times

The holding time for the mercury analysis of solid samples is 28 days from sample collection to analysis. The holding times were met for the sample analyses.

5.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 219480). Mercury was not detected in the method blank above the MDL.

5.4 Matrix Spike/Matrix Spike Duplicate

MS/MSD pairs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). A sample set specific MS/MSD pair was reported, using sample WB2-3, S1, C 08.01.17. The recovery and RPD results were within laboratory specified acceptance criteria, with the following exception.

The MS recovery of mercury was high, outside the laboratory specified acceptance criteria. Therefore, the concentration of mercury in sample WB2-3, S1, C 08.01.17 was J+ qualified as estimated with a high bias.

Sample ID	Compound	Laboratory Concentration (mg/kg)	Laboratory Flag	Validation Concentration (mg/kg)	Validation Qualifier	Reason Code
WB2-3, S1, C 08.01.17	Mercury	0.055	F1	0.055	J+	4

mg/kg-milligrams per kilogram
F1-laboratory flag indicating the MS and/or MSD recovery is outside acceptance limits

5.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery result was within the laboratory specified acceptance criteria.

5.6 Laboratory Duplicate

A laboratory duplicate was not reported.

5.7 Field Duplicate

A field duplicate was not collected with the sample set.

5.8 Sensitivity

The samples were reported to the MDL. No elevated non-detect results were reported.

The MDL was at or below the NYSDEC DER10 App 5 Constituent Level for Imported Fill or Soil Restricted Residential Use May 2010.

5.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The sample date and time were included in the sample IDs in the EDD and not included in the sample IDs in the laboratory report. No other discrepancies were identified between the level II report and the EDD.

6.0 TOTAL CYANIDE

The samples were analyzed for total cyanide by EPA Methods 9010C/9014.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

6.1 Overall Assessment

The total cyanide data reported in this data set are considered usable for meeting project objectives. The analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this data set is 100%.

6.2 Holding Times

The holding time for the total cyanide analysis of solid samples is 14 days from sample collection to analysis. The holding times were met for the sample analyses.

6.3 Method Blanks

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 219313). Cyanide was not detected in the method blank above the MDL.

6.4 Matrix Spike/Matrix Spike Duplicate

MS/MSD pairs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). A sample set specific MS/MSD pair was reported, using sample WB2-3, S1, C 08.01.17. The recovery and RPD results were within the laboratory specified acceptance criteria.

6.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Three LCSs were reported. The recovery results were within the laboratory specified acceptance criteria.

6.6 Laboratory Duplicate

Laboratory duplicates were not reported.

6.7 Field Duplicate

A field duplicate was collected but not analyzed for cyanide.

6.8 Sensitivity

The samples were reported to the MDL. No elevated non-detect results were reported.

The MDL was at or below the NYSDEC DER10 App 5 Constituent Level for Imported Fill or Soil Restricted Residential Use May 2010.

6.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The sample date and time were included in the sample IDs in the EDD and not included in the sample IDs in the laboratory report. No other discrepancies were identified between the level II report and the EDD.

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ATTACHMENT 1
DATA VALIDATION QUALIFIER DEFINITIONS AND INTERPRETATION KEY
Assigned by Geosyntec's Data Validation Team

DATA QUALIFIER DEFINITIONS

U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

J+ The analyte was positively identified; however, the associated numerical value is likely to be higher that the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.

J- The analyte was positively identified; however, the associated numerical value is likely to be lower that the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ATTACHMENT 2
DATA VALIDATION REASON CODES
Assigned by Geosyntec's Data Validation Team

Valid Value	Description
1	Preservation requirement not met
2	Analysis holding time exceeded
3	Blank contamination (i.e., method, trip, equipment, etc.)
4	Matrix spike/matrix spike duplicate recovery or RPD outside limits
5	LCS recovery outside limits
6	Surrogate recovery outside limits
7	Field Duplicate RPD exceeded
8	Serial dilution percent difference exceeded
9	Calibration criteria not met
10	Linear range exceeded
11	Internal standard criteria not met
12	Lab duplicates RPD exceeded
13	Other

RPD-relative percent difference

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Memorandum

Date:	16 August 2017
To:	Aron Krasnopoler
From:	Chris Pracheil
CC:	J. Caprio
Subject:	**Stage 2A Data Validation - Level II Data Deliverable, TestAmerica Job ID # 180-68875-2**

SITE: Former Sperry Remington Site-North IRM

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of three solid samples, one field duplicate sample and one trip blank, collected August 02, 2017, as part of the Former Sperry Remington Site-North IRM project. The analyses were performed at TestAmerica Laboratories, Inc., Pittsburgh, Pennsylvania. The samples were analyzed for the following tests:

- Volatile Organic Compounds (VOCs) by EPA Methods 8260C and 5035/8260C
- Semivolatile Organic Compounds (SVOCs) by EPA Methods 3541/8270D
- Polychlorinated Biphenyls (PCBs) by EPA Methods 3541/8082A
- Metals by EPA Methods 3050B/6010C
- Mercury by EPA Method 7471B
- Total Cyanide by EPA Methods 9010C/9014
- Total Solids by Standard Method 2540G

EXECUTIVE SUMMARY

The samples were handled, prepared, and measured in the same manner under similar prescribed conditions.

Overall, based on this Stage 2A data validation covering the quality control (QC) parameters listed below, the data as qualified are usable for meeting project objectives. Qualified data should be used within the limitations of the qualification.

The data were validated based on the Quality Assurance Project Plan (QAPP) for Former Sperry Remington Facility Industrial Outfall Site, Elmira, New York, NYSDEC Site I.D. # 808043,

NY09-2480-04, July 7, 2010, Revised November 11, 2010, USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review, January 2017 (EPA 540-R-2017-002), USEPA Contract Laboratory Program National Functional Guidelines for Superfund Inorganic Methods Data Review, January 2017 (EPA 540-R-2017-001), the pertinent methods referenced by the laboratory report and professional and technical judgment.

The following samples were analyzed and validated at Stage 2A level in the data set:

Laboratory ID	Client ID
180-68875-9	WB2-3, S3, A 08.02.17
180-68875-12	WB2-3, S3, B 08.02.17
180-68875-13	WB2-3, S3, C 08.02.17

Laboratory ID	Client ID
180-68875-14	DUP 24
180-68875-15	TRIP BLANK #1

The samples were received at the laboratory at 0.8°C, within the criteria of 0-6°C. No sample preservation issues were noted by the laboratory.

The following sample receiving issues were noted:

- Incorrect error corrections were observed on the chain of custody (COC), instead of the proper procedure of a single strike through, correction, and initials and date of person making the corrections.

- Sample TRIP BLANK #1 was not listed on the COC, but was received by the laboratory and logged in with a collection date and time of 8/02/2017, 00:00.

- A sample collection time was not documented on the COC for field duplicate sample DUP 24. The laboratory assigned a collection time of 00:00.

- Samples W8, S5, A 08.02.17, W8, S5, C 08.02.17, W8, S6, A 08.02.17, W8, S6, C 08.02.17, WB1-2, S1, A 08.02.17, WB1-2, S1, C 08.02.17, WB1-2, S2, A 08.02.17, WB1-2, S2, C 08.02.17, DUP 22 and DUP 23 were listed on the COC and reported in laboratory report 180-68875-1.

The solids data, used to report the samples on a dry weight basis, were not validated.

1.0 VOLATILE ORGANIC COMPOUNDS

The samples were analyzed for VOCs by EPA methods 8260C and 5035/8260C.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues

were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Surrogates
- ✓ Trip Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

1.1 Overall Assessment

The VOC data reported in this package are considered usable for meeting project objectives. The analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this package is 100%.

The narrative indicated that the continuing calibration verification (CCV) percent difference (%D) for 2-butanone was high in analytical batch 219096, outside method specified acceptance criteria. The %D was 21.1%D, with a low bias. Since the %D was within the validation guidance acceptance criteria of 40%D, no qualifications were applied to the data.

The CCV %D for 1,1,1-trichloroethane was high in analytical batch 219248, outside the method specified acceptance criteria. The %D was 20.5% with a high bias. Since 1,1,1-trichloroethane was not detected in the associated sample, no qualifications were applied to the data.

1.2 Holding Times

The holding times for the VOC analysis of a solid sample collected using a Terracore are 48 hours from collection to laboratory receipt and 14 days from sample collection to analysis. The holding time for the VOC analysis of a preserved water sample is 14 days from sample collection to analysis. The holding times were met for the sample analyses.

1.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Three method blanks were reported (batches 219095, 219231 and 219255). VOCs were not detected in the method blanks above the method detection limits (MDLs).

1.4 Matrix Spike/Matrix Spike Duplicate (MS/MSD)

An MS/MSD pair was not reported.

1.5 Laboratory Control Sample (LCS)

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Three LCSs were reported. The recovery results were within the laboratory specified acceptance criteria.

1.6 Surrogates

Acceptable surrogate recoveries were reported.

1.7 Trip Blank

One trip blank, TRIP BLANK#1, accompanied the samples. VOCs were not detected in the trip blank above the MDLs.

1.8 Field Duplicate

A field duplicate, DUP 24 was collected with the sample set. Acceptable precision [relative percent difference (RPD) <40% for results greater than five times the reporting limit (RL) and ±2 times the RL for results less than five times the RL] was demonstrated between the field duplicate and the original sample, WB2-3, S3, B 08.02.17.

1.9 Sensitivity

The samples were reported to the MDLs. No elevated non-detect results were reported.

The MDLs were at or below the NYSDEC DER10 App 5 Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010.

1.10 Electronic Data Deliverable (EDD) Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The sample date and time were included in the sample IDs in the EDD and not included in the sample IDs in the laboratory report. No other discrepancies were identified between the level II report and the EDD.

2.0 SEMIVOLATILE ORGANIC COMPOUNDS

The samples were analyzed for SVOCs by EPA methods 3541/8270D.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Surrogates
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

2.1 Overall Assessment

The SVOC data reported in this package are considered usable for meeting project objectives. The analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this package is 100%.

2.2 Holding Times

The holding times for SVOC analysis of solid samples are 14 days from sample collection to extraction and 40 days from extraction to analysis. The holding times were met for the sample analyses.

2.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 219916). SVOCs were not detected in the method blank above the MDLs.

2.4 Matrix Spike/Matrix Spike Duplicate

An MS/MSD pair was not reported.

2.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery results were within the laboratory specified acceptance criteria.

2.6 Surrogates

Acceptable surrogate recoveries were reported.

2.7 Field Duplicate

A field duplicate was collected, but not analyzed for SVOCs.

2.8 Sensitivity

The samples were reported to the MDLs. No elevated non-detect results were reported.

The MDLs were at or below the NYSDEC DER10 App 5 Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010. It was noted that no NYSDEC DER10 App 5 Constituent Levels for Imported Fill were listed for the following compounds:

2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dinitrotoluene
2-Methylphenol
Dibenzofuran
Hexachlorobenzene

Hexachlorobutadiene
Hexachloroethane
Methylphenol, 3 & 4
Nitrobenzene
Pyridine

2.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The sample date and time were included in the sample IDs in the EDD and not included in the sample IDs in the laboratory report. No other discrepancies were identified between the level II report and the EDD.

3.0 POLYCHLORINATED BIPHENYLS

The samples were analyzed for PCBs by EPA Methods 3541/8082A.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

⊗ Overall Assessment
✓ Holding Times
✓ Method Blank
✓ Matrix Spike/Matrix Spike Duplicate
✓ Laboratory Control Sample
✓ Surrogates
✓ Field Duplicate
✓ Sensitivity
✓ Electronic Data Deliverable Review

3.1 Overall Assessment

The PCB data reported in this data set are considered usable for meeting project objectives. The analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this data set is 100%.

The narrative indicated that the CCV %D for PCB 1254 in analytical batch 220002 was high, outside method specified acceptance criteria on gas chromatography (GC) column RTX-CLP1. The associated sample results were reported from the other GC column, which had an acceptable CCV %D. Therefore, no qualifications were applied to the data.

The sample contains a mixture of PCBs 1248, 1254 and 1260. There are peaks in 1248 and 1254 that are in both of these PCBs and peaks in 1254 and 1260 that are in both of these PCBs; therefore,

there is contribution between PCBs when more than one PCB is detected in a sample. Therefore, based on professional and technical judgment, the concentrations of PCBs 1248, 1254 and 1260 in the sample were J qualified as estimated.

Sample ID	Compound	Laboratory Concentration (mg/kg)	Laboratory Flag	Validation Concentration (mg/kg)	Validation Qualifier*	Reason Code**
WB2-3, S3, C 08.02.17	PCB-1248	1.6	NA	1.6	J	13
WB2-3, S3, C 08.02.17	PCB-1254	1.2	NA	1.2	J	13
WB2-3, S3, C 08.02.17	PCB-1260	0.19	NA	0.19	J	13

mg/kg-milligrams per kilograms
NA-not applicable
* Validation qualifiers are defined in Attachment 1 at the end of this report
**Reason codes are defined in Attachment 2 at the end of this report

3.2 Holding Times

No holding times are listed in the referenced method for PCB analyses. The samples were extracted and analyzed within 13 days of collection. Therefore, no qualifications were applied to the data, based on professional and technical judgment.

3.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 219927). PCBs were not detected in the method blank above the MDLs.

3.4 Matrix Spike/Matrix Spike Duplicate

An MS/MSD pair was not reported.

3.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS/LCS duplicate (LCSD) pair was reported. The recovery and RPD results were within the laboratory specified acceptance criteria.

3.6 Surrogates

Acceptable surrogate recoveries were reported.

3.7 Field Duplicate

A field duplicate was collected, but not analyzed for PCBs.

3.8 Sensitivity

The samples were reported to the MDLs. No elevated non-detect results were reported.

It was noted that no NYSDEC constituent levels were listed for PCBs.

3.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The sample date and time were included in the sample IDs in the EDD and not included in the sample IDs in the laboratory report. No other discrepancies were identified between the level II report and the EDD.

4.0 METALS

The samples were analyzed for metals by EPA methods 3050B/6010C (Mercury evaluated separately in Section 5.0, below).

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

4.1 Overall Assessment

The metals data reported in this data set are considered usable for meeting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this data set is 100%.

4.2 Holding Times

The holding time for the metals analysis of a solid sample is 180 days from sample collection to analysis. The holding times were met for the sample analyses.

4.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 219443). The metals were not detected in the method blank above the MDLs.

4.4 Matrix Spike/Matrix Spike Duplicate

An MS/MSD pair was not reported.

4.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery results were within the laboratory specified acceptance criteria.

4.6 Laboratory Duplicate

A laboratory duplicate was not reported.

4.7 Field Duplicate

A field duplicate was collected, but not analyzed for metals.

4.8 Sensitivity

The samples were reported to the MDLs. No elevated non-detect results were reported.

The MDLs were at or below the NYSDEC DER10 App 5 Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010. It was noted that no NYSDEC constituent level was listed for chromium.

4.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The sample date and time were included in the sample IDs in the EDD and not included in the sample IDs in the laboratory report. No other discrepancies were identified between the level II report and the EDD.

5.0 MERCURY

The samples were analyzed for mercury by EPA method 7471B.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

5.1 Overall Assessment

The mercury data reported in this data set are considered usable for meeting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this data set is 100%.

5.2 Holding Times

The holding time for the mercury analysis of solid samples is 28 days from sample collection to analysis. The holding times were met for the sample analyses.

5.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 219480). Mercury was not detected in the method blank above the MDL.

5.4 Matrix Spike/Matrix Spike Duplicate

An MS/MSD pair was not reported.

5.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery results were within the laboratory specified acceptance criteria.

5.6 Laboratory Duplicate

A laboratory duplicate was not reported.

5.7 Field Duplicate

A field duplicate was collected, but not analyzed for mercury.

5.8 Sensitivity

The samples were reported to the MDL. No elevated non-detect results were reported.

The MDL was at or below the NYSDEC DER10 App 5 Constituent Level for Imported Fill or Soil Restricted Residential Use May 2010.

5.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The sample date and time were included in the sample IDs in the EDD and not included in the sample IDs in

the laboratory report. No other discrepancies were identified between the level II report and the EDD.

6.0 TOTAL CYANIDE

The samples were analyzed for total cyanide by EPA Methods 9010C/9014.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

6.1 Overall Assessment

The total cyanide data reported in this data set are considered usable for meeting project objectives. The analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this data set is 100%.

6.2 Holding Times

The holding time for the total cyanide analysis of solid samples is 14 days from sample collection to analysis. The holding times were met for the sample analyses.

6.3 Method Blanks

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 219313). Cyanide was not detected in the method blank above the MDL.

6.4 Matrix Spike/Matrix Spike Duplicate

An MS/MSD pair was not reported.

6.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Three LCSs were reported. The recovery results were within the laboratory specified acceptance criteria.

6.6 Laboratory Duplicate

Laboratory duplicates were not reported.

6.7 Field Duplicate

A field duplicate was collected, but not analyzed for cyanide.

6.8 Sensitivity

The samples were reported to the MDL. No elevated non-detect results were reported.

The MDL was at or below the NYSDEC DER10 App 5 Constituent Level for Imported Fill or Soil Restricted Residential Use May 2010.

6.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The sample date and time were included in the sample IDs in the EDD and not included in the sample IDs in the laboratory report. No other discrepancies were identified between the level II report and the EDD.

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ATTACHMENT 1
DATA VALIDATION QUALIFIER DEFINITIONS AND INTERPRETATION KEY
Assigned by Geosyntec's Data Validation Team

DATA QUALIFIER DEFINITIONS

U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

J+ The analyte was positively identified; however, the associated numerical value is likely to be higher that the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.

J- The analyte was positively identified; however, the associated numerical value is likely to be lower that the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ATTACHMENT 2
DATA VALIDATION REASON CODES
Assigned by Geosyntec's Data Validation Team

Valid Value	Description
1	Preservation requirement not met
2	Analysis holding time exceeded
3	Blank contamination (i.e., method, trip, equipment, etc.)
4	Matrix spike/matrix spike duplicate recovery or RPD outside limits
5	LCS recovery outside limits
6	Surrogate recovery outside limits
7	Field Duplicate RPD exceeded
8	Serial dilution percent difference exceeded
9	Calibration criteria not met
10	Linear range exceeded
11	Internal standard criteria not met
12	Lab duplicates RPD exceeded
13	Other

RPD-relative percent difference

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Memorandum

Date:	20 August 2017
To:	Aron Krasnopoler
From:	Mary Tyler
CC:	J. Caprio
Subject:	**Stage 2A Data Validation - Level II Data Deliverable, TestAmerica Job ID # 180-68986-1**

SITE: Former Sperry Remington Site-North IRM

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of three solid samples, including one sample for matrix spike/matrix spike duplicate (MS/MSD) analysis, two equipment blanks and two trip blanks, collected August 03-04, 2017, as part of the Former Sperry Remington Site-North IRM project. The analyses were performed at TestAmerica Laboratories, Inc., Pittsburgh, Pennsylvania. The samples were analyzed for the following tests:

- Volatile Organic Compounds (VOCs) by EPA Methods 8260C and 5035/8260C
- Semivolatile Organic Compounds (SVOCs) by EPA Methods 3520C/8270D and 3541/8270D
- Polychlorinated Biphenyls (PCBs) by EPA Methods 3510C/8082A and 3541/8082A
- Metals by EPA Methods 3005A/6010C and 3050B/6010C
- Mercury by EPA Methods 7470A and 7471B
- Total Cyanide by EPA Methods 9010C/9014
- Total Solids by Standard Method 2540G

EXECUTIVE SUMMARY

The samples were handled, prepared, and measured in the same manner under similar prescribed conditions.

Overall, based on this Stage 2A data validation covering the quality control (QC) parameters listed below, the data as qualified are usable for meeting project objectives. Qualified data should be used within the limitations of the qualification.

The data were validated based on the Quality Assurance Project Plan (QAPP) for Former Sperry Remington Facility Industrial Outfall Site, Elmira, New York, NYSDEC Site I.D. # 808043, NY09-2480-04, July 7, 2010, Revised November 11, 2010, USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review, January 2017 (EPA 540-R-2017-002), USEPA Contract Laboratory Program National Functional Guidelines for Superfund Inorganic Methods Data Review, January 2017 (EPA 540-R-2017-001), the pertinent methods referenced by the laboratory report and professional and technical judgment.

The following samples were analyzed and validated at Stage 2A level in the data set:

Laboratory ID	Client ID
180-68986-1	EQ BLK #1 08.03.17
180-68986-2	EQ BLK #2 08.04.17
180-68986-7	W5-b, S5, A 08.04.17
180-68986-7 MS	W5-b, S5, A 08.04.17 MS
180-68986-7 MSD	W5-b, S5, A 08.04.17 MSD

Laboratory ID	Client ID
180-68986-8	W5-b, S5, B 08.04.17
180-68986-9	W5-b, S5, C 08.04.17
180-68986-10	TRIP BLANK #1
180-68986-11	TRIP BLANK #2

The samples were received at the laboratory at 1.0°C and 4.4°C, within the criteria of 0-6°C. No sample preservation issues were noted by the laboratory.

The following sample receiving issues were noted:

- Incorrect error corrections were observed on the chain of custody (COC), instead of the proper procedure of a single strike through, correction, and initials and date of person making the corrections.

- There was a rush sticker on the COC, obliterating part of the analysis request section of the COC.

- The sample collection time was not documented on the COC for the trip blanks. The laboratory assigned collection times of 00:00.

- The narrative indicated that both trip blanks were received with air bubbles of approximately 6 millimeters (mm) in diameter. Since the VOCs were not detected in the associated samples, no qualifications were applied to the data.

- Samples WB 1-2, S3, A 08.04.17, WB 1-2, S3, C 08.04.17, WB 1-2, S4, A 08.04.17 and WB 1-2, S4, C 08.04.17 were listed on the COC and reported in laboratory report 180-68986-2.

The solids data, used to report the samples on a dry weight basis, were not validated.

1.0 VOLATILE ORGANIC COMPOUNDS

The samples were analyzed for VOCs by EPA methods 8260C and 5035/8260C.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Surrogates
- ✓ Equipment Blank
- ✓ Trip Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

1.1 Overall Assessment

The VOC data reported in this package are considered usable for meeting project objectives. The analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this package is 100%.

The narrative indicated that the continuing calibration verification (CCV) percent difference (%D) for 1,1,1-trichloroethane was high, outside method specified acceptance criteria in analytical batch 219248. The %D was 20.5%D with a high bias. Since 1,1,1-trichloroethane was not detected in the associated samples, no qualifications were applied to the data.

1.2 Holding Times

The holding times for the VOC analysis of a solid sample collected using a Terracore are 48 hours from collection to laboratory receipt and 14 days from sample collection to analysis. The holding time for the VOC analysis of a preserved water sample is 14 days from sample collection to analysis. The holding times were met for the sample analyses.

1.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two method blanks were reported (batches 219341 and 219248). VOCs were not detected in the method blanks above the method detection limits (MDLs).

1.4 Matrix Spike/Matrix Spike Duplicate

One MS/MSD pair was reported, using sample W5-b, S5, A 08.04.17. The recovery and relative percent difference (RPD) results were within the laboratory specified acceptance criteria

1.5 Laboratory Control Sample (LCS)

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two LCSs were reported. The recovery results were within the laboratory specified acceptance criteria.

1.6 Surrogates

Acceptable surrogate recoveries were reported.

1.7 Equipment Blank

Two equipment blanks were collected with the samples, EQ BLK #1 08.03.17 and EQ BLK #2 08.04.17. VOCs were not detected in the equipment blanks above the MDLs.

1.8 Trip Blank

Two trip blanks, TRIP BLANK#1 and TRIP BLANK #2, accompanied the samples. VOCs were not detected in the trip blanks above the MDLs, with the following exceptions.

2-Butanone was detected at an estimated concentration, greater than the MDL and less than the reporting limit (RL) in TRIP BLANK #1. Acetone was detected at estimated concentrations, greater than the MDL and less than the reporting limit (RL) in both TRIP BLANK #1 and TRIP BLANK #2. Since 2-butanone and acetone were not detected in the associated samples, no qualifications were applied to the data.

As noted above, both trip blanks were received with air bubbles of approximately 6 mm in diameter. Since the VOCs were not detected in the associated samples, no qualifications were applied to the data.

1.9 Field Duplicate

A field duplicate was not collected with the sample set.

1.10 Sensitivity

The samples were reported to the MDLs. No elevated non-detect results were reported.

The MDLs were at or below the NYSDEC DER10 App 5 Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010.

1.11 Electronic Data Deliverable (EDD) Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The sample date and time were included in the sample IDs in the EDD and not included in the sample IDs in the laboratory report. No other discrepancies were identified between the level II report and the EDD.

2.0 SEMIVOLATILE ORGANIC COMPOUNDS

The samples were analyzed for SVOCs by EPA methods 3520C/8270D and 3541/8270D.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

✓ Overall Assessment
✓ Holding Times
✓ Method Blank
⊗ Matrix Spike/Matrix Spike Duplicate
✓ Laboratory Control Sample
✓ Surrogates
✓ Equipment Blank
✓ Field Duplicate
✓ Sensitivity
✓ Electronic Data Deliverable Review

2.1 Overall Assessment

The SVOC data reported in this package are considered usable for meeting project objectives. The analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this package is 100%.

The narrative indicated that the CCV %D for pyridine in analytical batch 219660 was high, outside method specified acceptance criteria, with a high bias. Since pyridine was not detected in the associated samples, no qualifications were applied to the data.

2.2 Holding Times

The holding times for SVOC analysis of solid samples are 14 days from sample collection to extraction and 40 days from extraction to analysis. The holding times for SVOC analysis of water samples are 7 days from sample collection to extraction and 40 days from extraction to analysis. The holding times were met for the sample analyses.

2.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two method blanks were reported (batches 219432 and 220050). SVOCs were not detected in the method blanks above the MDLs.

2.4 Matrix Spike/Matrix Spike Duplicate

MS/MSD pairs were not reported.

2.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS and one LCS/LCS duplicate (LCSD) pair were reported. The recovery and RPD results were within the laboratory specified acceptance criteria.

2.6 Surrogates

Acceptable surrogate recoveries were reported.

2.7 Equipment Blank

Two equipment blanks were collected with the samples, EQ BLK #1 08.03.17 and EQ BLK #2 08.04.17. SVOCs were not detected in the equipment blanks above the MDLs.

2.8 Field Duplicate

A field duplicate was not collected with the sample set.

2.9 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were not reported.

The MDLs were at or below the NYSDEC DER10 App 5 Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010. It was noted that no NYSDEC DER10 App 5 Constituent Levels for Imported Fill were listed for the following compounds:

2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dinitrotoluene
2-Methylphenol
Dibenzofuran
Hexachlorobenzene

Hexachlorobutadiene
Hexachloroethane
Methylphenol, 3 & 4
Nitrobenzene
Pyridine

2.10 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The sample date and time were included in the sample IDs in the EDD and not included in the sample IDs in the laboratory report. No other discrepancies were identified between the level II report and the EDD.

1.0 POLYCHLORINATED BIPHENYLS

The samples were analyzed for PCBs by EPA Methods 3510C/8082A and 3541/8082A.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

⊗ Overall Assessment
✓ Holding Times
✓ Method Blank
✓ Matrix Spike/Matrix Spike Duplicate
✓ Laboratory Control Sample
✓ Surrogates
✓ Equipment Blank
✓ Field Duplicate
✓ Sensitivity
✓ Electronic Data Deliverable Review

1.1 Overall Assessment

The PCB data reported in this data set are considered usable for meeting project objectives. The analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this data set is 100%.

Sample W5-b, S5, C 08.04.17 contains a mixture of PCBs 1248, 1254 and 1260. There are peaks in 1248 and 1254 that are in both of these PCBs and peaks in 1254 and 1260 that are in both of these PCBs; therefore, there is contribution between PCBs when more than one PCB is detected in a sample. Based on professional and technical judgment, the concentrations of PCBs 1248, 1254 and 1260 in this sample were J qualified as estimated.

Sample ID	Compound	Laboratory Concentration (mg/kg)	Laboratory Flag	Validation Concentration (mg/kg)	Validation Qualifier	Reason Code
W5-b, S5, C 08.04.17	PCB-1248	6.5	NA	6.5	J	13
W5-b, S5, C 08.04.17	PCB-1254	2.2	NA	2.2	J	13
W5-b, S5, C 08.04.17	PCB-1260	0.34	NA	0.34	J	13

mg/kg-milligrams per kilograms
NA-not applicable
* Validation qualifiers are defined in Attachment 1 at the end of this report
**Reason codes are defined in Attachment 2 at the end of this report

1.2 Holding Times

No holding times are listed in the referenced method for PCB analyses. The samples were extracted and analyzed within 12 days of collection. Therefore, no qualifications were applied to the data, based on professional and technical judgment.

1.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two method blanks were reported (batches 219543 and 520051). PCBs were not detected in the method blanks above the MDLs.

1.4 Matrix Spike/Matrix Spike Duplicate

An MS/MSD pair was not reported.

1.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two LCS/LCSD pairs were reported. The recovery and RPD results were within the laboratory specified acceptance criteria.

1.6 Surrogates

Acceptable surrogate recoveries were reported.

1.7 Equipment Blank

Two equipment blanks were collected with the samples, EQ BLK #1 08.03.17 and EQ BLK #2 08.04.17. PCBs were not detected in the equipment blanks above the MDLs.

1.8 Field Duplicate

A field duplicate was not collected with the sample set.

1.9 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were reported for sample W5-b, S5, C 08.04.17 due to the dilution analyzed.

It was noted that no NYSDEC constituent levels were listed for PCBs.

1.10 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The sample date and time were included in the sample IDs in the EDD and not included in the sample IDs in

the laboratory report. No other discrepancies were identified between the level II report and the EDD.

4.0 METALS

The samples were analyzed for metals by EPA methods 3005A/6010C and 3050B/6010C (Mercury evaluated separately in Section 5.0, below).

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Equipment Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

4.1 Overall Assessment

The metals data reported in this data set are considered usable for meeting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this data set is 100%.

4.2 Holding Times

The holding time for the metals analyses of solid and water samples is 180 days from sample collection to analysis. The holding times were met for the sample analyses.

4.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two method blanks were reported (batches 219443 and 219379). The metals were not detected in the method blanks above the MDLs.

4.4 Matrix Spike/Matrix Spike Duplicate

An MS/MSD pair was not reported.

4.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two LCSs were reported. The recovery results were within the laboratory specified acceptance criteria.

4.6 Laboratory Duplicate

A laboratory duplicate was not reported.

4.7 Equipment Blank

Two equipment blanks were collected with the samples, EQ BLK #1 08.03.17 and EQ BLK #2 08.04.17. The metals were not detected in the equipment blanks above the MDLs.

4.8 Field Duplicate

A field duplicate was not collected with the sample set.

4.9 Sensitivity

The samples were reported to the MDLs. No elevated non-detect results were reported.

The MDLs were at or below the NYSDEC DER10 App 5 Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010. It was noted that no NYSDEC constituent level was listed for chromium.

4.10 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The sample date and time were included in the sample IDs in the EDD and not included in the sample IDs in the laboratory report. No other discrepancies were identified between the level II report and the EDD.

5.0 MERCURY

The samples were analyzed for mercury by EPA methods 7470A and 7471B.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Equipment Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

5.1 Overall Assessment

The mercury data reported in this data set are considered usable for meeting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this data set is 100%.

5.2 Holding Times

The holding time for the mercury analyses of solid and water samples is 28 days from sample collection to analysis. The holding times were met for the sample analyses.

5.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two method blanks were reported (batches 219569 and 219480). Mercury was not detected in the methods blank above the MDLs.

5.4 Matrix Spike/Matrix Spike Duplicate

MS/MSD pairs were not reported.

5.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two LCSs were reported. The recovery results were within the laboratory specified acceptance criteria.

5.6 Laboratory Duplicate

A laboratory duplicate was not reported.

5.7 Equipment Blank

Two equipment blanks were collected with the samples, EQ BLK #1 08.03.17 and EQ BLK #2 08.04.17. Mercury was not detected in the equipment blanks above the MDL.

5.8 Field Duplicate

A field duplicate was not collected with the sample set.

5.9 Sensitivity

The samples were reported to the MDL. No elevated non-detect results were reported.

The MDL was at or below the NYSDEC DER10 App 5 Constituent Level for Imported Fill or Soil Restricted Residential Use May 2010.

5.10 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The sample date and time were included in the sample IDs in the EDD and not included in the sample IDs in the laboratory report. No other discrepancies were identified between the level II report and the EDD.

6.0 TOTAL CYANIDE

The samples were analyzed for total cyanide by EPA Methods 9010C/9014.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues

were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Equipment Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

6.1 Overall Assessment

The total cyanide data reported in this data set are considered usable for meeting project objectives. The analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this data set is 100%.

6.2 Holding Times

The holding time for the total cyanide analysis of solid and water samples is 14 days from sample collection to analysis. The holding times were met for the sample analyses.

6.3 Method Blanks

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two method blanks were reported (batches 219684 and 219686). Cyanide was not detected in the method blanks above the MDLs.

6.4 Matrix Spike/Matrix Spike Duplicate

MS/MSD pairs were not reported.

6.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Five LCSs and one LCS/LCSD pair were reported. The recovery and RPD results were within the laboratory specified acceptance criteria.

6.6 Laboratory Duplicate

Laboratory duplicates were not reported.

6.7 Equipment Blank

Two equipment blanks were collected with the samples, EQ BLK #1 08.03.17 and EQ BLK #2 08.04.17. Cyanide was not detected in the equipment blanks above the MDL.

6.8 Field Duplicate

A field duplicate was not collected with the sample set.

6.9 Sensitivity

The samples were reported to the MDL. No elevated non-detect results were reported.

The MDL was at or below the NYSDEC DER10 App 5 Constituent Level for Imported Fill or Soil Restricted Residential Use May 2010.

6.10 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The sample date and time were included in the sample IDs in the EDD and not included in the sample IDs in the laboratory report. No other discrepancies were identified between the level II report and the EDD.

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* * * * *

ATTACHMENT 1
DATA VALIDATION QUALIFIER DEFINITIONS AND INTERPRETATION KEY
Assigned by Geosyntec's Data Validation Team

DATA QUALIFIER DEFINITIONS

U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

J+ The analyte was positively identified; however, the associated numerical value is likely to be higher that the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.

J- The analyte was positively identified; however, the associated numerical value is likely to be lower that the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ATTACHMENT 2
DATA VALIDATION REASON CODES
Assigned by Geosyntec's Data Validation Team

Valid Value	Description
1	Preservation requirement not met
2	Analysis holding time exceeded
3	Blank contamination (i.e., method, trip, equipment, etc.)
4	Matrix spike/matrix spike duplicate recovery or RPD outside limits
5	LCS recovery outside limits
6	Surrogate recovery outside limits
7	Field Duplicate RPD exceeded
8	Serial dilution percent difference exceeded
9	Calibration criteria not met
10	Linear range exceeded
11	Internal standard criteria not met
12	Lab duplicates RPD exceeded
13	Other

RPD-relative percent difference

From:	Schneider, Timothy A (DEC)
To:	Aron Krasnopoler
Cc:	Williams, Scott F (DEC); Foti, Scott J (DEC); Schilling, Bernette (DEC)
Subject:	RE: Request to Import Fill Material and Aggregate - Former Sperry Remington Site - North Portion IRM
Date:	Wednesday, June 28, 2017 9:40:22 AM
Attachments:	image002.png image003.png

Hi Aron,

Soil samples were collected for import of up to 1000 cy from Brewer's Pit in Horseheads NY and analyzed by NYS ELAP certified ESC Lab Sciences, Mt Juliet, TN. The data from Analytical Report # L916338 dated June 20, 2017 was validated by Geosyntec Consultants on June 27, 2017 and compared to DER 10 appendix 5 for Restricted Residential site use. No exceedance of these comparative criteria were reported.

Provided that the 1000 cubic yards of material requested to import to the Former Sperry Remington – North Portion Site #c808022 is consistent with the material analyzed, approval is granted.

If additional soils are needed from this stockpile or area of the mine, then sampling frequency should be 2 VOC and 1 composite for every additional 1000 cubic yards in accordance with Table 5.4(e)10. If additional soils are from a different stockpile or area of the mine, then sampling frequency reverts back to the beginning of Table 5.4(e)10.

If you have any questions, feel free to contact me.

Timothy A. Schneider P.E.

Professional Engineer 1, Division of Environmental Remediation

New York State Department of Environmental Conservation

6274 East Avon-Lima Road, Avon, NY 14414

P: (585) 226-5480 | F: (585) 226-8139 | timothy.schneider@dec.ny.gov

www.dec.ny.gov |

From: Aron Krasnopoler [mailto:AKrasnopoler@Geosyntec.com]
Sent: Tuesday, June 27, 2017 10:52 PM
To: Schneider, Timothy A (DEC) <timothy.schneider@dec.ny.gov>
Subject: RE: Request to Import Fill Material and Aggregate - Former Sperry Remington Site - North Portion IRM

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Dear Tim,

Please find attached the revised request to import soil for fill material and as the base material for the stockpiled soils with data validation of the chemical analyses. Geotechnical data were collected to assure that the soil met project requirements for structural fill. The fill material is not exempt from chemical testing under DER-10 Section 5.4(e)5 so the results for #80 sieve analysis are not shown.

Please let me know if this meets your needs for approval.

Regards,
Aron

Aron Krasnopoler, Ph. D., P.E.
Project Engineer

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From: Schneider, Timothy A (DEC) [mailto:timothy.schneider@dec.ny.gov]
Sent: Monday, June 26, 2017 3:23 PM
To: Aron Krasnopoler <AKrasnopoler@Geosyntec.com>
Subject: RE: Request to Import Fill Material and Aggregate - Former Sperry Remington Site - North Portion IRM

Aron,
Data needs to be validated, not just reviewed.
Tim

From: Aron Krasnopoler [mailto:AKrasnopoler@Geosyntec.com]
Sent: Monday, June 26, 2017 12:35 PM
To: Schneider, Timothy A (DEC) <timothy.schneider@dec.ny.gov>
Cc: john.geary (john.geary@reconservices.com) <john.geary@reconservices.com>; Kyle Snyder <kyle.snyder@reconservices.com>; Ashwin Ranna <ARanna@Geosyntec.com>; Paul Brookner <PBrookner@Geosyntec.com>
Subject: Request to Import Fill Material and Aggregate - Former Sperry Remington Site - North Portion IRM

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Dear Tim,

Please find attached DEC Request to Import Forms for fill material and aggregate to be brought to the Former Sperry Remington Site – North Portion in Elmira, New York. Chemical data for the fill material has been reviewed

and has been found to be usable for this purpose. There were some errors in identification of grab and composite samples that will be corrected during sampling moving forward. Please see the annotated COC form for reference.

Best Regards,
Aron Krasnopoler

Aron Krasnopoler, Ph. D., P.E.
Project Engineer

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From:	Schneider, Timothy A (DEC)
To:	Aron Krasnopoler
Cc:	Williams, Scott F (DEC); Foti, Scott J (DEC); Schilling, Bernette (DEC)
Subject:	RE: Request to Import Fill Material and Aggregate - Former Sperry Remington Site - North Portion IRM
Date:	Tuesday, June 27, 2017 12:30:38 PM
Attachments:	image002.png image003.png DEC Request to Import Soil Form - Aggregate 6-26-17 Stamped.pdf

Hi Aron,

Aggregate material from Brewer's Pit in Horseheads NY was analyzed by CME Associates on March 22, 2017. The annotated and PE certified Report No.: 29729L-04-0317 demonstrates that this material is exempt from chemical testing in accordance with NYSDEC DER-10 guidance.

Provided that the 500-800 cubic yards of material requested to import to the Former Sperry Remington – North Portion Site #c808022 is consistent with the material analyzed, approval is granted.

If you have any questions, feel free to contact me.

Timothy A. Schneider P.E.

Professional Engineer 1, Division of Environmental Remediation

New York State Department of Environmental Conservation

6274 East Avon-Lima Road, Avon, NY 14414

P: (585) 226-5480 | F: (585) 226-8139 | timothy.schneider@dec.ny.gov

www.dec.ny.gov | | |

From: Aron Krasnopoler [mailto:AKrasnopoler@Geosyntec.com]
Sent: Tuesday, June 27, 2017 12:03 PM
To: Schneider, Timothy A (DEC) <timothy.schneider@dec.ny.gov>
Subject: RE: Request to Import Fill Material and Aggregate - Former Sperry Remington Site - North Portion IRM

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Tim,

Here is the revised request to import the aggregate material with documentation that shows the 80 sieve analysis meets the requirements for exemption. Please let me know if this meets your needs for approval.

Aron

Aron Krasnopoler, Ph. D., P.E.

Project Engineer

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From: Schneider, Timothy A (DEC) [mailto:timothy.schneider@dec.ny.gov]
Sent: Monday, June 26, 2017 2:55 PM
To: Aron Krasnopoler <AKrasnopoler@Geosyntec.com>
Subject: RE: Request to Import Fill Material and Aggregate - Former Sperry Remington Site - North Portion IRM

Aron

Attached is an example of what I need you to provide since the documentation does not show the 80 sieve… in your case you should reference the 80 sieve to the mm equivalent.

Tim

From: Aron Krasnopoler [mailto:AKrasnopoler@Geosyntec.com]
Sent: Monday, June 26, 2017 2:41 PM
To: Schneider, Timothy A (DEC) <timothy.schneider@dec.ny.gov>
Subject: RE: Request to Import Fill Material and Aggregate - Former Sperry Remington Site - North Portion IRM

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Tim,

Thank you for following up on the import request as we discussed. I look forward to your response.

Sincerely,
Aron

Aron Krasnopoler, Ph. D., P.E.
Project Engineer

10211 Wincopin Circle, 4th Floor
Columbia, MD 21044
Phone: 410-381-4333
Fax: 410-381-4499
Mobile: 202-550-7724

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From: Aron Krasnopoler
Sent: Monday, June 26, 2017 12:34 PM
To: 'Schneider, Timothy A (DEC)' <timothy.schneider@dec.ny.gov>
Cc: john.geary (john.geary@reconservices.com) <john.geary@reconservices.com>; 'Kyle Snyder' <kyle.snyder@reconservices.com>; Ashwin Ranna <ARanna@Geosyntec.com>; Paul Brookner <PBrookner@Geosyntec.com>
Subject: Request to Import Fill Material and Aggregate - Former Sperry Remington Site - North Portion IRM

Dear Tim,

Please find attached DEC Request to Import Forms for fill material and aggregate to be brought to the Former Sperry Remington Site – North Portion in Elmira, New York. Chemical data for the fill material has been reviewed and has been found to be usable for this purpose. There were some errors in identification of grab and composite samples that will be corrected during sampling moving forward. Please see the annotated COC form for reference.

Best Regards,
Aron Krasnopoler

Aron Krasnopoler, Ph. D., P.E.
Project Engineer

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From:	Schneider, Timothy A (DEC)
To:	Aron Krasnopoler; Williams, Scott F (DEC)
Cc:	Foti, Scott J (DEC); Schilling, Bernette (DEC); Ashwin Ranna; Paul Brookner
Subject:	RE: Request to Import Fill Material and Aggregate - Former Sperry Remington Site - North Portion IRM
Date:	Thursday, July 13, 2017 1:21:01 PM
Attachments:	image001.png image002.png

Hi Aron,

Soil samples were collected for import of up to 4000 additional cubic yards of soils from Brewer's Pit in Horseheads NY and analyzed by NYS ELAP certified ESC Lab Sciences, Mt Juliet, TN. The data from Analytical Report # L919054 dated July 10, 2017 was validated by Geosyntec Consultants on July 11, 2017 and compared to DER 10 appendix 5 for Restricted Residential site use. No exceedance of these comparative criteria were reported.

Provided that the additional 4000 cubic yards of soil requested to import to the Former Sperry Remington – North Portion Site #c808022 is consistent with the material analyzed, approval is granted.

If you have any questions, feel free to contact me.

Timothy A. Schneider P.E.

Professional Engineer 1, Division of Environmental Remediation

New York State Department of Environmental Conservation

6274 East Avon-Lima Road, Avon, NY 14414

P: (585) 226-5480 | F: (585) 226-8139 | timothy.schneider@dec.ny.gov

www.dec.ny.gov | | |

From: Aron Krasnopoler [mailto:AKrasnopoler@Geosyntec.com]
Sent: Tuesday, July 11, 2017 2:21 PM
To: Schneider, Timothy A (DEC) <timothy.schneider@dec.ny.gov>; Williams, Scott F (DEC) <Scott.Williams@dec.ny.gov>
Cc: Foti, Scott J (DEC) <scott.foti@dec.ny.gov>; Schilling, Bernette (DEC) <bernette.schilling@dec.ny.gov>; Ashwin Ranna <ARanna@Geosyntec.com>; Paul Brookner <PBrookner@Geosyntec.com>
Subject: RE: Request to Import Fill Material and Aggregate - Former Sperry Remington Site - North Portion IRM

ATTENTION: This email came from an external source. Do not open attachments or click on links from unknown senders or unexpected emails.

Dear Tim,

Please find attached for your review a request to import an additional 5,000 cubic yards from the stockpile that was previously approved. Analytical data have been validated.

Best Regards,
Aron Krasnopoler

Aron Krasnopoler, Ph. D., P.E.
Project Engineer

10211 Wincopin Circle, 4th Floor
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From: Schneider, Timothy A (DEC) [mailto:timothy.schneider@dec.ny.gov]
Sent: Wednesday, June 28, 2017 9:40 AM
To: Aron Krasnopoler <AKrasnopoler@Geosyntec.com>
Cc: Williams, Scott F (DEC) <Scott.Williams@dec.ny.gov>; Foti, Scott J (DEC) <scott.foti@dec.ny.gov>; Schilling, Bernette (DEC) <bernette.schilling@dec.ny.gov>
Subject: RE: Request to Import Fill Material and Aggregate - Former Sperry Remington Site - North Portion IRM

Hi Aron,

Soil samples were collected for import of up to 1000 cy from Brewer's Pit in Horseheads NY and analyzed by NYS ELAP certified ESC Lab Sciences, Mt Juliet, TN. The data from Analytical Report # L916338 dated June 20, 2017 was validated by Geosyntec Consultants on June 27, 2017 and compared to DER 10 appendix 5 for Restricted Residential site use. No exceedance of these comparative criteria were reported.

Provided that the 1000 cubic yards of material requested to import to the Former Sperry Remington – North Portion Site #c808022 is consistent with the material analyzed, approval is granted.

If additional soils are needed from this stockpile or area of the mine, then sampling frequency should be 2 VOC and 1 composite for every additional 1000 cubic yards in accordance with Table 5.4(e)10. If additional soils are from a different stockpile or area of the mine, then sampling frequency reverts back to the beginning of Table 5.4(e)10.

If you have any questions, feel free to contact me.

Timothy A. Schneider P.E.
Professional Engineer 1, Division of Environmental Remediation

New York State Department of Environmental Conservation
6274 East Avon-Lima Road, Avon, NY 14414
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www.dec.ny.gov | |

From: Aron Krasnopoler [mailto:AKrasnopoler@Geosyntec.com]
Sent: Tuesday, June 27, 2017 10:52 PM
To: Schneider, Timothy A (DEC) <timothy.schneider@dec.ny.gov>
Subject: RE: Request to Import Fill Material and Aggregate - Former Sperry Remington Site - North Portion IRM

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Dear Tim,

Please find attached the revised request to import soil for fill material and as the base material for the stockpiled soils with data validation of the chemical analyses. Geotechnical data were collected to assure that the soil met project requirements for structural fill. The fill material is not exempt from chemical testing under DER-10 Section 5.4(e)5 so the results for #80 sieve analysis are not shown.

Please let me know if this meets your needs for approval.

Regards,
Aron

Aron Krasnopoler, Ph. D., P.E.
Project Engineer

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From: Schneider, Timothy A (DEC) [mailto:timothy.schneider@dec.ny.gov]

Sent: Monday, June 26, 2017 3:23 PM
To: Aron Krasnopoler <AKrasnopoler@Geosyntec.com>
Subject: RE: Request to Import Fill Material and Aggregate - Former Sperry Remington Site - North Portion IRM

Aron,
Data needs to be validated, not just reviewed.
Tim

From: Aron Krasnopoler [mailto:AKrasnopoler@Geosyntec.com]
Sent: Monday, June 26, 2017 12:35 PM
To: Schneider, Timothy A (DEC) <timothy.schneider@dec.ny.gov>
Cc: john.geary (john.geary@reconservices.com) <john.geary@reconservices.com>; Kyle Snyder <kyle.snyder@reconservices.com>; Ashwin Ranna <ARanna@Geosyntec.com>; Paul Brookner <PBrookner@Geosyntec.com>
Subject: Request to Import Fill Material and Aggregate - Former Sperry Remington Site - North Portion IRM

ATTENTION: This email came from an external source. Do not open attachments or click on links from unknown senders or unexpected emails.

Dear Tim,

Please find attached DEC Request to Import Forms for fill material and aggregate to be brought to the Former Sperry Remington Site – North Portion in Elmira, New York. Chemical data for the fill material has been reviewed and has been found to be usable for this purpose. There were some errors in identification of grab and composite samples that will be corrected during sampling moving forward. Please see the annotated COC form for reference.

Best Regards,
Aron Krasnopoler

Aron Krasnopoler, Ph. D., P.E.
Project Engineer

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From:	Schneider, Timothy A (DEC)
To:	Aron Krasnopoler; Williams, Scott F (DEC); Schilling, Bernette (DEC)
Cc:	Paul Brookner; Ashwin Ranna; john.geary (john.geary@reconservices.com)
Subject:	RE: Request to Import Topsoil, Former Sperry Remington Site - North Portion IRM
Date:	Monday, August 7, 2017 9:31:13 AM
Attachments:	image002.png image003.png

Hi Aron,

Top soil samples were collected for import of up to 1000 cubic yards of soils from Blackwell Pit in Erin NY and analyzed by NYS ELAP certified ESC Lab Sciences, Mt Juliet, TN. The data from Analytical Report # L919338 dated July 10, 2017 was validated by Geosyntec Consultants on August 3, 2017 and compared to DER 10 appendix 5 for Restricted Residential site use. No exceedance of these comparative criteria were reported.

Provided that the 1000 cubic yards of soil requested to import to the Former Sperry Remington – North Portion Site #c808022 is consistent with the material analyzed, approval is granted.

If you have any questions, feel free to contact me.

Regards,

Tim

Timothy A. Schneider P.E.

Professional Engineer 1, Division of Environmental Remediation

New York State Department of Environmental Conservation

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www.dec.ny.gov |

From: Aron Krasnopoler [mailto:AKrasnopoler@Geosyntec.com]
Sent: Monday, August 07, 2017 9:18 AM
To: Schneider, Timothy A (DEC) <timothy.schneider@dec.ny.gov>; Williams, Scott F (DEC) <Scott.Williams@dec.ny.gov>; Schilling, Bernette (DEC) <bernette.schilling@dec.ny.gov>
Cc: Paul Brookner <PBrookner@Geosyntec.com>; Ashwin Ranna <ARanna@Geosyntec.com>; john.geary (john.geary@reconservices.com) <john.geary@reconservices.com>
Subject: Request to Import Topsoil, Former Sperry Remington Site - North Portion IRM

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Dear Tim,

Please find attached DEC Request to Import/Reuse Form for topsoil for the Former Sperry Remington Site – North Portion IRM in Elmira, New York for your review.

Best Regards,
Aron Krasnopoler

Aron Krasnopoler, Ph. D., P.E.
Project Engineer

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From:	Schneider, Timothy A (DEC)
To:	Aron Krasnopoler; Williams, Scott F (DEC); Schilling, Bernette (DEC)
Cc:	Paul Brookner; Ashwin Ranna; john.geary (john.geary@reconservices.com)
Subject:	RE: Request to Reuse Fill Material - Windrows 1-3, Former Sperry Remington Site - North Portion IRM
Date:	Wednesday, July 19, 2017 2:43:20 PM
Attachments:	image002.png image003.png

Hi Aron,

I have reviewed the request to reuse package for stockpiled soils in windrows 1, 2 and 3. Chemical analyses of the soil, completed by the ELAP certified lab Test America and validated by Geosyntec Consultants on July 17, 2017, indicates minor exceedance of DER-10 appendix 5 for Restricted Residential site use for PCBs and a few SVOC constituents.

Levels of exceedance are not indicative of source levels of constituents and therefore may be re-used as back fill below approved cover systems at the Former Sperry Remington – North Portion Site #C808022. Please document the area and depths where these soils will be placed for future site management purposes.

Best Regards,

Tim

Timothy A. Schneider P.E.

Professional Engineer 1, Division of Environmental Remediation

New York State Department of Environmental Conservation

6274 East Avon-Lima Road, Avon, NY 14414

P: (585) 226-5480 | F: (585) 226-8139 | timothy.schneider@dec.ny.gov

www.dec.ny.gov | | |

From: Aron Krasnopoler [mailto:AKrasnopoler@Geosyntec.com]
Sent: Tuesday, July 18, 2017 6:46 PM
To: Schneider, Timothy A (DEC) <timothy.schneider@dec.ny.gov>; Williams, Scott F (DEC) <Scott.Williams@dec.ny.gov>; Schilling, Bernette (DEC) <bernette.schilling@dec.ny.gov>
Cc: Paul Brookner <PBrookner@Geosyntec.com>; Ashwin Ranna <ARanna@Geosyntec.com>; john.geary (john.geary@reconservices.com) <john.geary@reconservices.com>
Subject: Request to Reuse Fill Material - Windrows 1-3, Former Sperry Remington Site - North Portion IRM

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Dear Tim,

Please find attached DEC Request to Import/Reuse Form for soils from Windrow 1 to 3 in the Material Staging Area (MSA) for the Former Sperry Remington Site – North Portion IRM in Elmira, New York. For your review. Upon approval, stockpiled soils with like analytical results will be consolidated within the MSA.

Best Regards,

Aron Krasnopoler

Aron Krasnopoler, Ph. D., P.E.
Project Engineer

10211 Wincopin Circle, 4th Floor
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From:	Schneider, Timothy A (DEC)
To:	Aron Krasnopoler
Cc:	Paul Brookner; Kevin Krueger (Kevin.Krueger@unisys.com); john.geary (john.geary@reconservices.com); Schilling, Bernette (DEC); Williams, Scott F (DEC); Foti, Scott J (DEC)
Subject:	RE: Request to Reuse Fill Material - Windrows 4-5, Former Sperry Remington Site - North Portion IRM
Date:	Wednesday, July 26, 2017 8:34:41 AM
Attachments:	image002.png image003.png

Hi Aron,

I have reviewed the request to reuse package and modified MSA Plan for stockpiled soils in windrows 4 and 5. Chemical analyses of the soil, completed by the ELAP certified lab Test America and validated by Geosyntec Consultants on July 20, 2017, indicates minor exceedance of DER-10 appendix 5 for Restricted Residential site use for PCBs and a few SVOC constituents.

Levels of exceedance are not indicative of source levels of constituents and therefore may be re-used as back fill below approved cover systems at the Former Sperry Remington – North Portion Site #C808022. Please document the area and depths where these soils will be placed for future site management purposes.

Best Regards,

Tim

Timothy A. Schneider P.E.

Professional Engineer 1, Division of Environmental Remediation

New York State Department of Environmental Conservation

6274 East Avon-Lima Road, Avon, NY 14414

P: (585) 226-5480 | F: (585) 226-8139 | timothy.schneider@dec.ny.gov

www.dec.ny.gov |

From: Aron Krasnopoler [mailto:AKrasnopoler@Geosyntec.com]
Sent: Monday, July 24, 2017 8:40 AM
To: Schneider, Timothy A (DEC) <timothy.schneider@dec.ny.gov>
Subject: RE: Request to Reuse Fill Material - Windrows 4-5, Former Sperry Remington Site - North Portion IRM

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Tim,

You are correct. The MSA Plan on the July 18 submittal was correct. I misnumbered when I was adding labels to the additional windrows for the next submittal. Please find attached the corrected figure.

Best Regards,
Aron

From: Schneider, Timothy A (DEC) [mailto:timothy.schneider@dec.ny.gov]
Sent: Monday, July 24, 2017 8:33 AM
To: Aron Krasnopoler <AKrasnopoler@Geosyntec.com>
Subject: RE: Request to Reuse Fill Material - Windrows 4-5, Former Sperry Remington Site - North Portion IRM

I did not see windrow #3 on the figure.

From: Aron Krasnopoler [mailto:AKrasnopoler@Geosyntec.com]
Sent: Monday, July 24, 2017 8:29 AM
To: Schneider, Timothy A (DEC) <timothy.schneider@dec.ny.gov>
Subject: RE: Request to Reuse Fill Material - Windrows 4-5, Former Sperry Remington Site - North Portion IRM

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Tim,

Windrow 3 was included in the request for reuse sent on July 18.

Aron

Aron Krasnopoler, Ph. D., P.E.
Project Engineer

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From: Schneider, Timothy A (DEC) [mailto:timothy.schneider@dec.ny.gov]
Sent: Monday, July 24, 2017 7:58 AM
To: Aron Krasnopoler <AKrasnopoler@Geosyntec.com>
Subject: RE: Request to Reuse Fill Material - Windrows 4-5, Former Sperry Remington Site - North Portion IRM

Hi Aron,

What happened to stockpile #3?

Tim

From: Aron Krasnopoler [mailto:AKrasnopoler@Geosyntec.com]
Sent: Friday, July 21, 2017 7:01 PM
To: Schneider, Timothy A (DEC) <timothy.schneider@dec.ny.gov>; Williams, Scott F (DEC) <Scott.Williams@dec.ny.gov>; Schilling, Bernette (DEC) <bernette.schilling@dec.ny.gov>
Cc: Paul Brookner <PBrookner@Geosyntec.com>; Ashwin Ranna <ARanna@Geosyntec.com>; john.geary (john.geary@reconservices.com) <john.geary@reconservices.com>
Subject: Request to Reuse Fill Material - Windrows 4-5, Former Sperry Remington Site - North Portion IRM

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Dear Tim,

Please find attached DEC Request to Import/Reuse Form for soils from Windrow 4 and 5 in the Material Staging Area (MSA) for the Former Sperry Remington Site – North Portion IRM in Elmira, New York. For your review. Upon approval, stockpiled soils with like analytical results will be consolidated within the MSA.

Best Regards,
Aron Krasnopoler

Aron Krasnopoler, Ph. D., P.E.
Project Engineer

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From:	Schneider, Timothy A (DEC)
To:	Aron Krasnopoler; Paul Brookner; Kevin.Krueger@unisys.com
Cc:	john.geary (john.geary@reconservices.com); Schilling, Bernette (DEC); Williams, Scott F (DEC)
Subject:	Former Sperry Remington Site 808022 - Request for Re-use of Soils
Date:	Monday, August 28, 2017 4:55:48 PM
Attachments:	image001.png image002.png

Hi Aron,

I have reviewed the request to reuse package for stockpiled soils in windrows W1-b, WB2-3, WB3-4, W6, WB6-7, W7, WB7-8, W8 and W9 as shown on Stockpile Area plan dated 23 Aug 2017. Chemical analyses of the soil, completed by the ELAP certified lab Test America and validated by Geosyntec Consultants on July 27 and August 14, 16, 20, 2017, indicates minor exceedance of DER-10 appendix 5 for Restricted Residential site use for PCBs and a few SVOC constituents.

Concentrations of PCBs and SVOCs are not indicative of source levels of constituents and therefore may be re-used as back fill below approved cover systems (2') at the Former Sperry Remington – North Portion Site #C808022.

Sections W1-b II, WB2-3 I & II, W3 I, WB3-4 I, II & III, W5 V, W7 I & II and W8 III should be consolidated and segregated for re-use below 2', below low permeable cover (concrete / asphalt) and at least 1' above seasonal high groundwater elevation.

Please document the area and depths where these soils will be placed for future site management purposes.

Best Regards,

Tim

Timothy A. Schneider P.E.

Professional Engineer 1, Division of Environmental Remediation

New York State Department of Environmental Conservation

6274 East Avon-Lima Road, Avon, NY 14414

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Appendix J

Compaction Test Results

Geosyntec consultants

GAUGE UTILIZATION LOG

PROJECT: Former Sperry Remington Site N
LOCATION: EHS PROJECT NO.: MN0832 TASK NO.: 25
DESCRIPTION: IRM Work YEAR: 2017
GAUGE MANUFACTURER: Troxler GAUGE MODEL NO.: 3440 GAUGE SERIAL NO.: 28790

DATE REMOVED (day/mo)	REMOVED BY: (NAME)	BLOCK CLOSED YES	BLOCK CLOSED NO	JOBSITE LOCATION	DATE RETURNED (day/mo)	RETURNED BY: (NAME)	BLOCK CLOSED YES	BLOCK CLOSED NO
6/29/2017	M Schallinger	✓		Elmira Cover Box				
14/7/2017	Ashwin Ranna	✓		Elmira	14/7/2017	Ashwin Ranna	✓	
18/7/2017	Ashwin Ranna	✓		Elmira	18/7/2017	Ashwin Ranna	✓	
19/7/2017	Ashwin Ranna	✓		Elmira	19/7/2017	Ashwin Ranna	✓	
21/7/2017	Ashwin Ranna	✓		Elmira	21-7-2017	Ashwin Ranna	✓	
28/7/2017	Julianne Payne	✓		Elmira	28/7/2017	Julianne Payne	✓	
29/7/2017	Julianne Payne	✓		Elmira	29/7/2017	Julianne Payne	✓	
3/8/2017	Julianne Payne	✓		Elmira	3/8/2017	Julianne Payne	✓	
5/8/2017	Ashwin Ranna	✓		Elmira	5/8/2017	Ashwin Ranna	✓	
7/8/2017	Ashwin Ranna	✓		Elmira	5/8/2017	Ashwin	✓	
8/30/2017	Ashwin Ranna	✓		Elmira	8/30/2017	Ashwin [Not used]	✓	
9/8/2017	Ashwin Ranna	✓		Elmira	9/8/2017	Ashwin	✓	→ Returned to DC storage

Geosyntec consultants

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG **(ASTM D 6938)**

PROJECT: Former Sperry Remington Site N
LOCATION: Elmira High School, NY PROJECT NO.: MN0832B TASK NO.: 25
DESCRIPTION: Practical Demo DATE: 27 day 6 month 2017 year

SPECIFICATION REQUIREMENTS: MATERIAL SOURCE:

MATERIAL TYPE: ☐ FILL ☐ SUBGRADE ☐ SUBBASE ☐ CLAY ☑ OTHER: Surface soil MAX. LIFT THICKNESS: — (in.)
MINIMUM COMPACTION: — (%) ☐ ASTM D 698 ☐ ASTM D 1557 MOISTURE CONTENT RANGE: - — to + — of OPT.
NUCLEAR GAUGE TYPE: — GAUGE SERIAL NO.: 12018 CORRECTION FACTOR: Y= —

TEST NO.	TEST LOCATION	PROBE DEPTH / LIFT NO.	LABORATORY RESULTS			FIELD TEST RESULTS						RE-TEST NO.	RE-TEST	
			SAMPLE NO.	OMC (%)	MAX. DRY UNIT WT. (pcf)	FIELD MOISTURE CONTENT (%)	WET UNIT WT (pcf)	DRY UNIT WT (pcf)	PERCENT COMPACT. (%)	PASS	FAIL		PASS	FAIL
1	Outside Conex	—	—	—	—	—	—	—	—	—	—	—	—	—

NOTES:

COMMENTS: Matt Schillinger ~~Demoed~~ AR brought gauge to site AR operated once to understand and review process

CHECKED BY: AR

Geosyntec consultants

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG **(ASTM D 6938)**

PROJECT: Former Sperry Remington Site N
LOCATION: Elmwood NY PROJECT NO.: MN0832B TASK NO.: 25
DESCRIPTION: Backfill in trench excavation DATE: 14 day 7 month 2012 year

SPECIFICATION REQUIREMENTS: MATERIAL SOURCE:

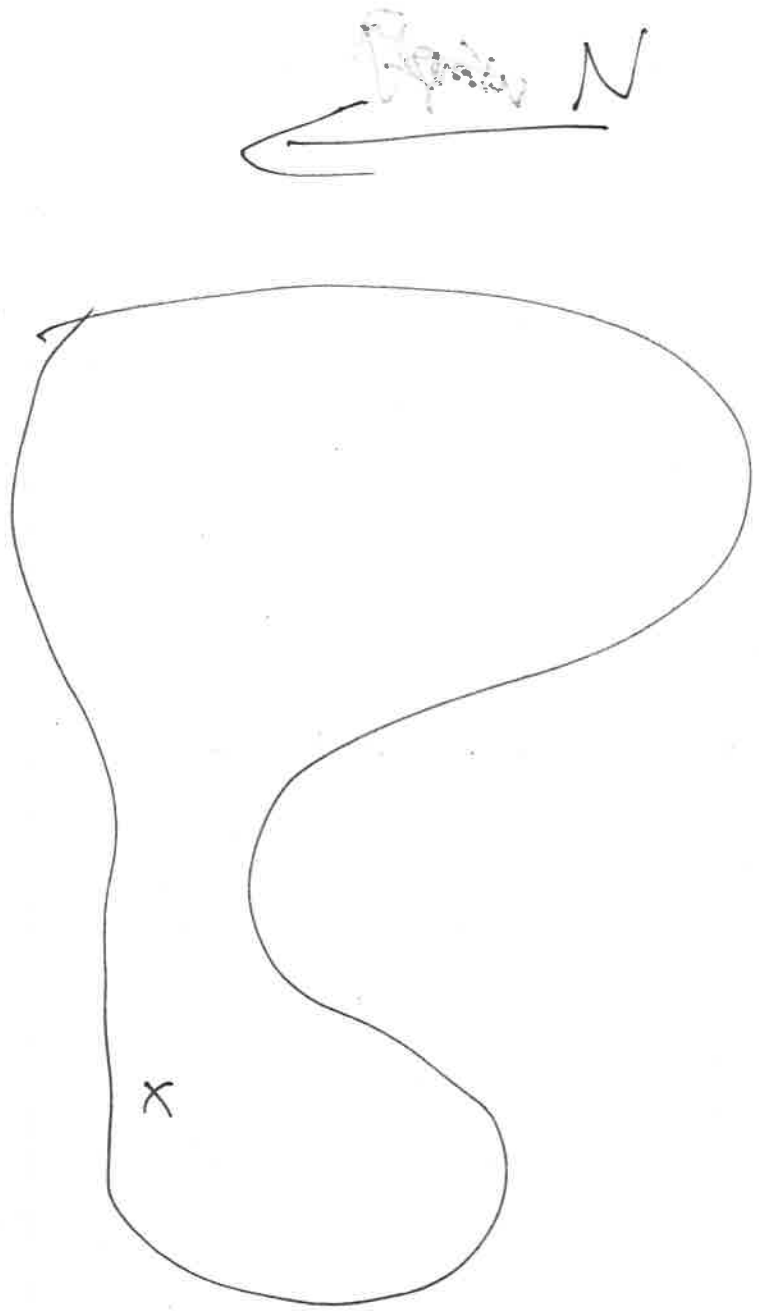
MATERIAL TYPE: ☑ FILL ☐ SUBGRADE ☐ SUBBASE ☐ CLAY ☐ OTHER: MAX. LIFT THICKNESS: 12 (in.)
MINIMUM COMPACTION: 95 (%) ☐ ASTM D 698 ☐ ASTM D 1557 MOISTURE CONTENT RANGE: - 4 to + 2 of OPT.
NUCLEAR GAUGE TYPE: Troxler 3440 GAUGE SERIAL NO.: 28790 CORRECTION FACTOR: Y=

TEST NO.	TEST LOCATION	PROBE DEPTH / LIFT NO.	LABORATORY RESULTS			FIELD TEST RESULTS						RE-TEST NO.	RE-TEST	
			SAMPLE NO.	OMC (%)	MAX. DRY UNIT WT. (pcf)	FIELD MOISTURE CONTENT (%)	WET UNIT WT (pcf)	DRY UNIT WT (pcf)	PERCENT COMPACT. (%)	PASS	FAIL		PASS	FAIL
1	Trench excavation	9"/1		6.5	140.5	7.5	146.4	136.8						
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NOTES:

COMMENTS:

CHECKED BY:


N
X

Geosyntec consultants

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG **(ASTM D 6938)**

PROJECT: Former Sperry Remington site

LOCATION: Tennis Court Excavation PROJECT NO.: MN0832 TASK NO.: 25

DESCRIPTION: backfill DATE: 18 day 7 month [illegible] year

SPECIFICATION REQUIREMENTS: MATERIAL SOURCE:

MATERIAL TYPE: ☑ FILL ☐ SUBGRADE ☐ SUBBASE ☐ CLAY ☐ OTHER: MAX. LIFT THICKNESS: (in.)

MINIMUM COMPACTION: 95 (%) ☐ ASTM D 698 ☐ ASTM D 1557 MOISTURE CONTENT RANGE: - 4 to + 2 of OPT.

NUCLEAR GAUGE TYPE: Troxler 3440 GAUGE SERIAL NO.: 28790 CORRECTION FACTOR: Y=

TEST NO.	TEST LOCATION	PROBE DEPTH / LIFT NO.	LABORATORY RESULTS			FIELD TEST RESULTS						RE-TEST NO.	RE-TEST	
			SAMPLE NO.	OMC (%)	MAX. DRY UNIT WT. (pcf)	FIELD MOISTURE CONTENT (%)	WET UNIT WT (pcf)	DRY UNIT WT (pcf)	PERCENT COMPACT. (%)	PASS	FAIL		PASS	FAIL
1	Tennis Court North	1/1		~~6.5~~	140.5	4.6	139.5	133.9	95.23	✓			✓	
2	Tennis Court North	2/1		6.5		4.8	139.9	133.9	95.23	✓			✓	
3		/												
		/												
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NOTES:

COMMENTS:

CHECKED BY:


N

Geosyntec consultants

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG **(ASTM D 6938)**

PROJECT: Former Sperry Remington Site N
LOCATION: Northern Excavation PROJECT NO.: MNU832B TASK NO.: 25
DESCRIPTION: Backfill DATE: 19 day 7 month 2017 year

SPECIFICATION REQUIREMENTS: MATERIAL SOURCE:

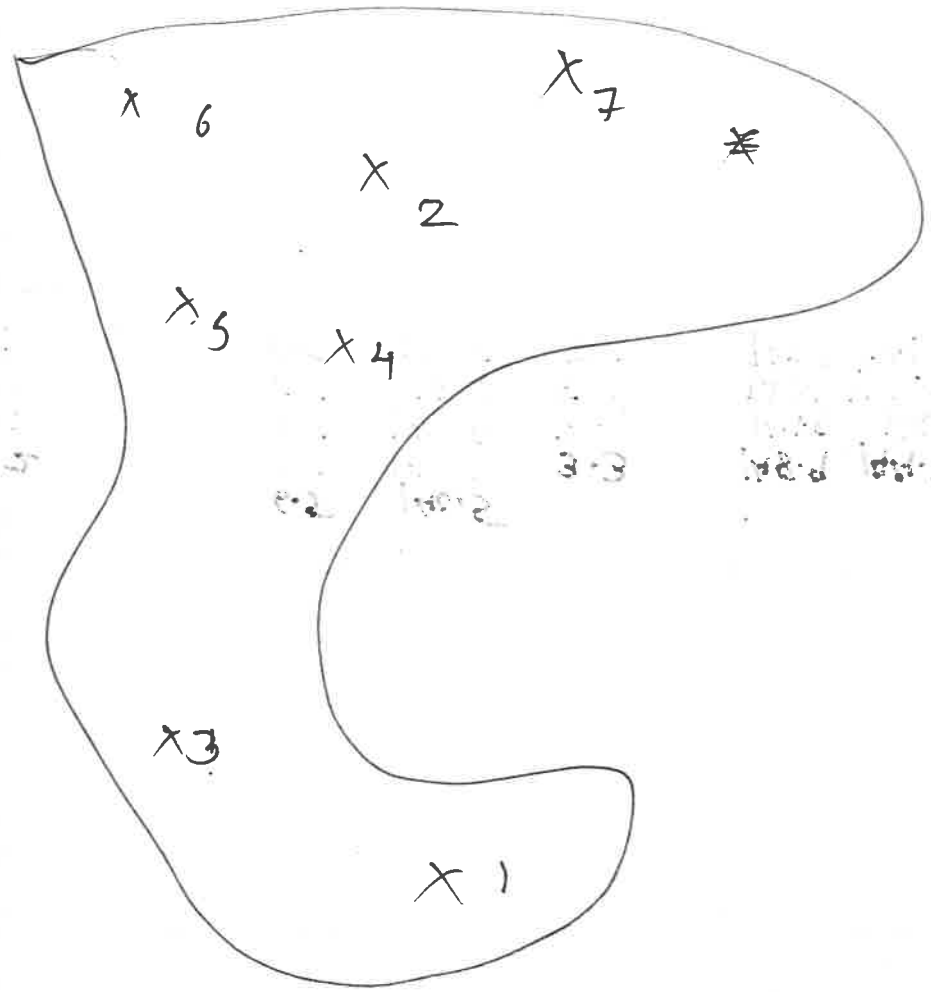
MATERIAL TYPE: ☑ FILL ☐ SUBGRADE ☐ SUBBASE ☐ CLAY ☐ OTHER: MAX. LIFT THICKNESS: 12 (in.)
MINIMUM COMPACTION: 95 (%) ☐ ASTM D 698 ☐ ASTM D 1557 MOISTURE CONTENT RANGE: - 4 to + 2 of OPT.
NUCLEAR GAUGE TYPE: Troxler 3440 GAUGE SERIAL NO.: 28790 CORRECTION FACTOR: Y=

TEST NO.	TEST LOCATION	PROBE DEPTH / LIFT NO.	LABORATORY RESULTS			FIELD TEST RESULTS						RE-TEST NO.	RE-TEST	
			SAMPLE NO.	OMC (%)	MAX. DRY UNIT WT. (pcf)	FIELD MOISTURE CONTENT (%)	WET UNIT WT (pcf)	DRY UNIT WT (pcf)	PERCENT COMPACT. (%)	PASS	FAIL		PASS	FAIL
1	Northern Excavation	12/1		6.5	140.5	3.6	149.1	143.8	102.34	✓				
2	Northern Ex	12/1		6.5	140.5	3.5	149.4	144.3	102.70	✓				
3	Northern Ex	12/2		6.5	140.5	3.3	148.9	144.1	102.56	✓				
4	Northern Ex	12/2		6.5	140.5	3.8	141.5	136.3	97.01	✓				
5	Northern Ex	12/2		6.5	140.5	5.6	148.1	140.3	99.85	✓				
6	Northern Ex	12/2		6.5	140.5	3.4	147.6	142.7	101.57	✓				
7	Northern Ex	12/2		6.5	140.5	3.6	150.6	144.8	103.06	✓				
		/												
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		/												
		/												

NOTES:

COMMENTS: 1st lift ok. Began 2nd lift. Tested 2nd lift at End of day

CHECKED BY:


x 6
x 7
x 2
x 5
x 4
x 3
x 1

Geosyntec consultants

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG **(ASTM D 6938)**

PROJECT: Former Sperry Remington Site N
LOCATION: Northern Excavation PROJECT NO.: MN0832B TASK NO.: 25
DESCRIPTION: Backfill DATE: 21 day 7 month 2017 year

SPECIFICATION REQUIREMENTS: MATERIAL SOURCE:

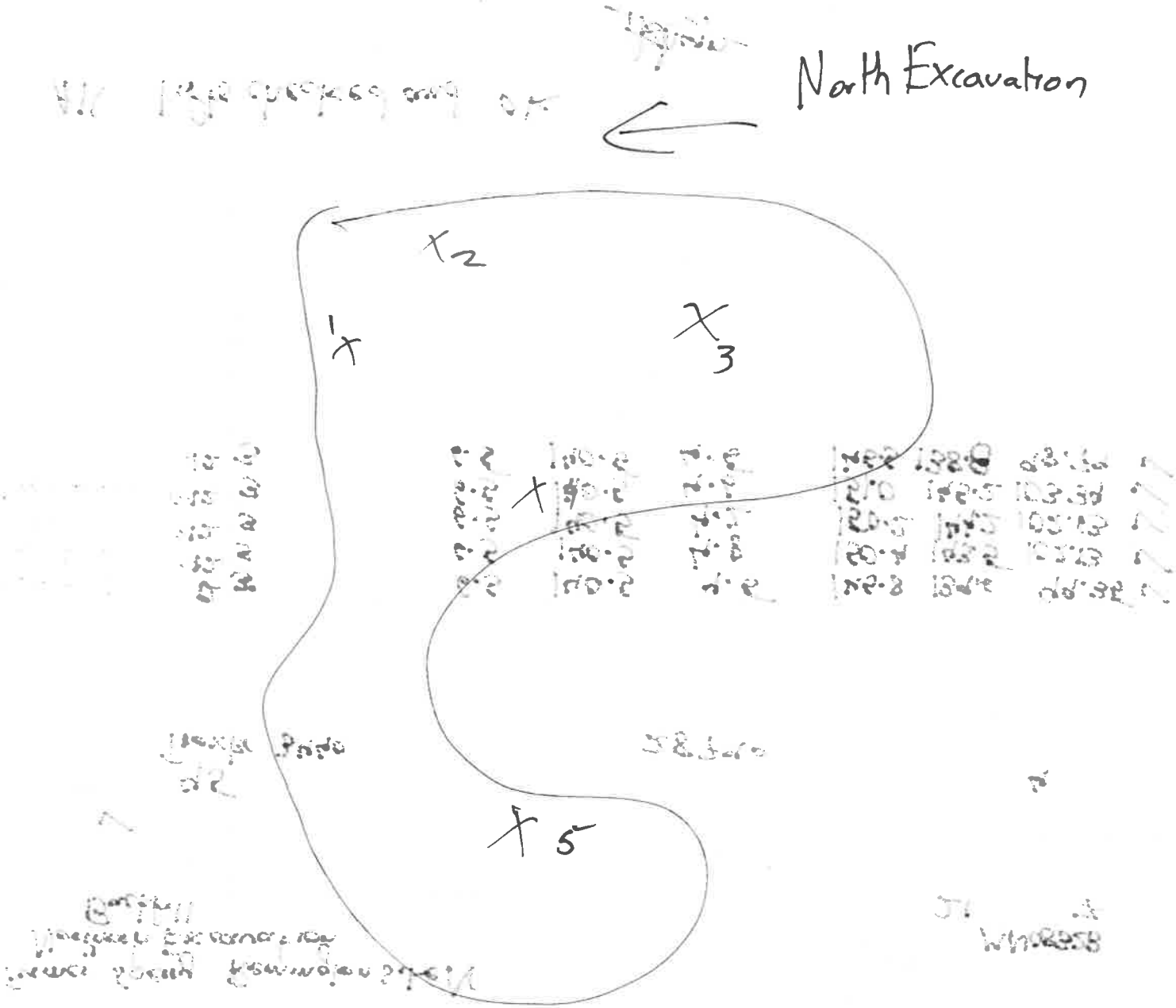
MATERIAL TYPE: ☑ FILL ☐ SUBGRADE ☐ SUBBASE ☐ CLAY ☐ OTHER: MAX. LIFT THICKNESS: 12 (in.)
MINIMUM COMPACTION: 95 (%) ☐ ASTM D 698 ☐ ASTM D 1557 MOISTURE CONTENT RANGE: - 4 to + 2 of OPT.
NUCLEAR GAUGE TYPE: Troxler 3440 GAUGE SERIAL NO.: 28790 CORRECTION FACTOR: Y=

TEST NO.	TEST LOCATION	PROBE DEPTH / LIFT NO.	LABORATORY RESULTS			FIELD TEST RESULTS						RE-TEST NO.	RE-TEST	
			SAMPLE NO.	OMC (%)	MAX. DRY UNIT WT. (pcf)	FIELD MOISTURE CONTENT (%)	WET UNIT WT (pcf)	DRY UNIT WT (pcf)	PERCENT COMPACT. (%)	PASS	FAIL		PASS	FAIL
1	Tie in south	6-12/3		6.5	140.5	4.6	145.8	139.6	99.35	✓				
2	Excavation	6-12/3		6.5	140.5	4.8	150.1	143.5	102.13	✓				
3	Backfill	6-12/3		6.5	140.5	4.2	150.2	144.2	102.63	✓				
4	Low areas	6-12/3		6.5	140.5	4.6	152.0	145.2	103.34	✓				
5		6-12/3		6.5	140.5	4.5	146.5	138.8	98.79	✓				
		/												
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NOTES:

COMMENTS: All lifts checked and ok

CHECKED BY:


North Excavation
x2
x1
x3
x5

Geosyntec consultants

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG **(ASTM D 6938)**

PROJECT: Former Sperry Remington Site
LOCATION: Southern Excavation PROJECT NO.: MNC832 TASK NO.: 25
DESCRIPTION: Backfill reuse material + Imported Fill in Area A of South Excavation DATE: 28 day 07 month 2017 year

SPECIFICATION REQUIREMENTS: MATERIAL SOURCE: sections I-IV of windrow 1 + sections II-IV of windrow 5

MATERIAL TYPE: [X] FILL [ ] SUBGRADE [ ] SUBBASE [ ] CLAY [ ] OTHER: Reuse Material (<10ppm) + Imported Fill MAX. LIFT THICKNESS: 12 (in.)
MINIMUM COMPACTION: 95 (%) [ ] ASTM D 698 [ ] ASTM D 1557 MOISTURE CONTENT RANGE: - 4 to + 2 of OPT.
NUCLEAR GAUGE TYPE: Troxler 3440 GAUGE SERIAL NO.: 28790 CORRECTION FACTOR: Y=

TEST NO.	TEST LOCATION	PROBE DEPTH / LIFT NO.	LABORATORY RESULTS			FIELD TEST RESULTS						RE-TEST NO.	RE-TEST	
			SAMPLE NO.	OMC (%)	MAX. DRY UNIT WT. (pcf)	FIELD MOISTURE CONTENT (%)	WET UNIT WT (pcf)	DRY UNIT WT (pcf)	PERCENT COMPACT. (%)	PASS	FAIL		PASS	FAIL
2-1A	South Excav. Area A	12/2	Reuse Fill 1	9.6	123.1	9.9	141.0	128.4	104.3	X				
1-1A		12/1				8.9	140.7	129.2	105.0	X				
1-2A		12/1				9.0	139.5	128.1	104.1	X				
1-3A		12/1				9.9	141.3	128.6	164.5	X				
1-4A		12/1				9.6	141.4	129.0	104.5	X				
1-5A		12/1				8.7	140.0	128.8	104.6	X				
2-2A		12/2				7.4	142.8	133.0	108.0	X				
2-3A		12/2				7.8	137.4	127.4	103.5	X				
2-4A		12/2				9.9	142.5	129.6	105.2	X				
2-5A		12/2				9.7	142.4	129.7	105.4	X				
3-1A		12/3	Backfill 3	6.4	138.5	7.6	140.9	133.3	96.2	X				
3-2A		12/3				7.1	144.9	135.4	97.8	X				
4-1A		12/4				5.4	151.7	144.0	104.0	X				
4-2A		12/4				5.7	140.9	133.3	96.2	X				

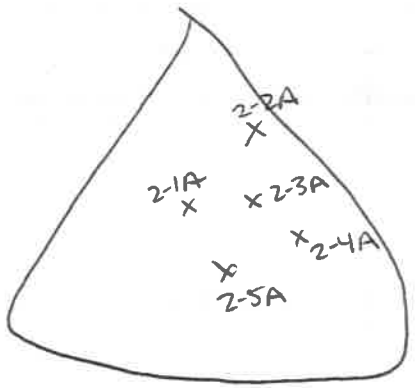
NOTES:

COMMENTS: Vibrating roller @ 10:00 (after 1-1A)
added dry material and used vibrating roller @ 1030 (lift 2)
lifts 1/2 → reuse material
lifts 3/4 → imported fill
naming = "lift - # sample area"

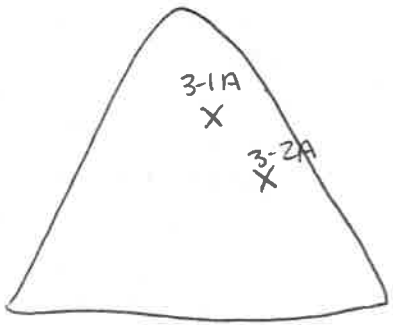
CHECKED BY: _____



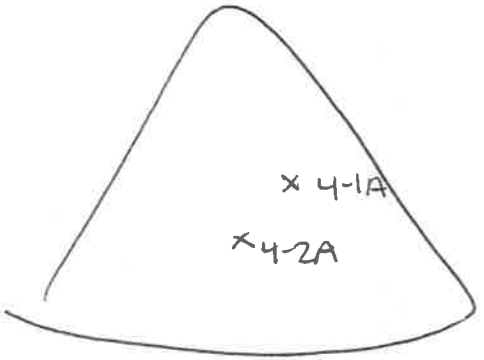
1st Lift
(3-4 ft)



2nd Lift
(2-3 ft)



3rd Lift
(1-2 ft)



4th Lift
(0-1 ft)

N

Geosyntec consultants

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG (ASTM D 6938)

PROJECT: Former Speedy Remington Site
LOCATION: Southern Excavation PROJECT NO.: MN0832B TASK NO.: 25
DESCRIPTION: Backfill Imported Fill DATE: 28 day 07 month 2017 year

SPECIFICATION REQUIREMENTS: MATERIAL SOURCE: Imported fill 0-2 ft

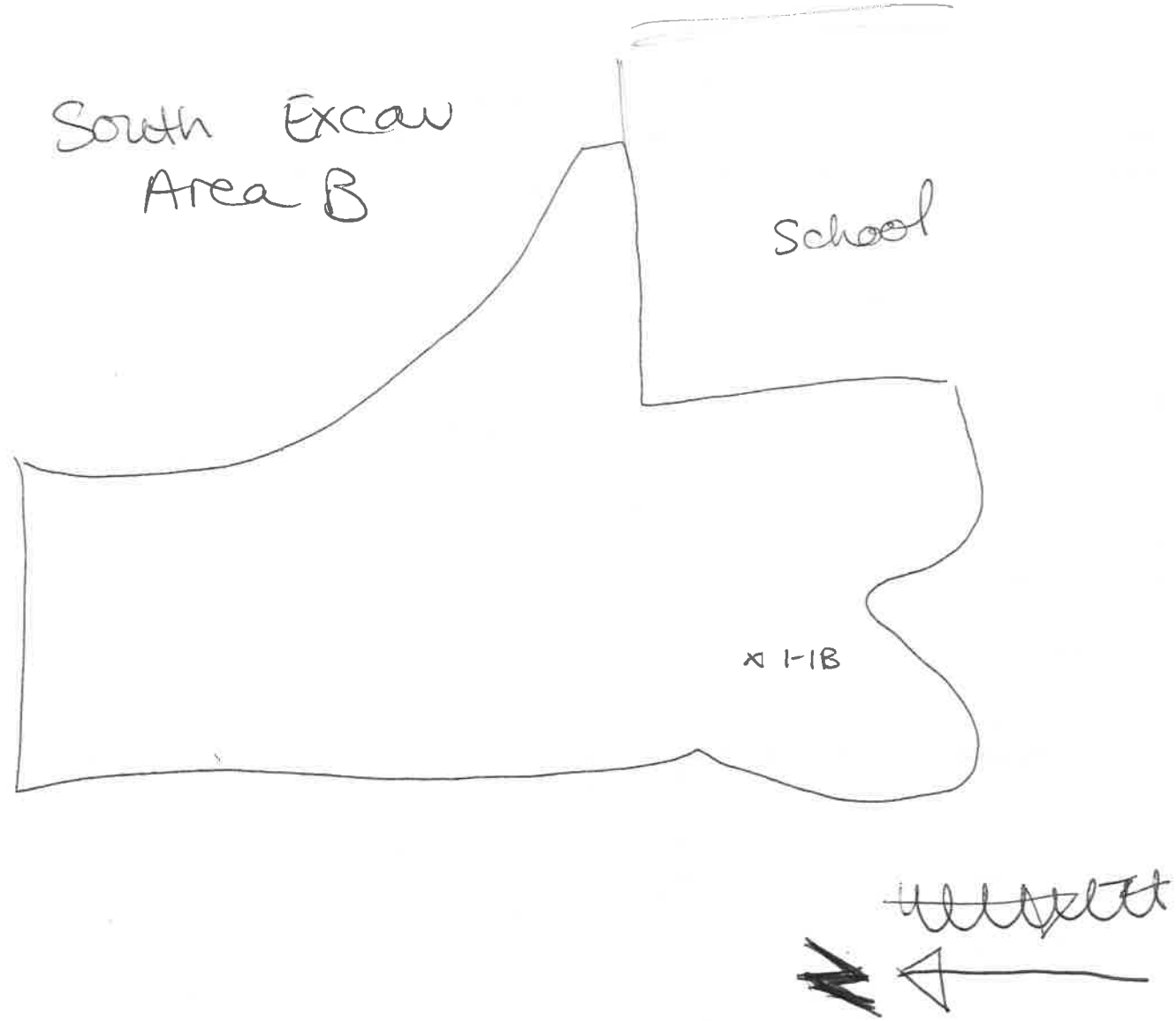
MATERIAL TYPE: [X] FILL [ ] SUBGRADE [ ] SUBBASE [ ] CLAY [ ] OTHER: MAX. LIFT THICKNESS: 12 (in.)
MINIMUM COMPACTION: 95 (%) [ ] ASTM D 698 [ ] ASTM D 1557 MOISTURE CONTENT RANGE: - 4 to + 2 of OPT.
NUCLEAR GAUGE TYPE: Troxler 3440 GAUGE SERIAL NO.: 28790 CORRECTION FACTOR: Y=

TEST NO.	TEST LOCATION	PROBE DEPTH / LIFT NO.	LABORATORY RESULTS			FIELD TEST RESULTS						RE-TEST NO.	RE-TEST	
			SAMPLE NO.	OMC (%)	MAX. DRY UNIT WT. (pcf)	FIELD MOISTURE CONTENT (%)	WET UNIT WT (pcf)	DRY UNIT WT (pcf)	PERCENT COMPACT. (%)	PASS	FAIL		PASS	FAIL
1-1B	South Excav Area B	12 / 1	Backfill3	6.4	138.5	6.1	144.1	135.9	98.1	X				
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NOTES:

COMMENTS: lift 1 (imported fill) in Area B (0-2 ft)
*still need 2 tests in lift 1 + 3 tests in lift 2 in Area B

CHECKED BY: _____


South Excav
Area B
School
x 1-1B

Geosyntec consultants

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG **(ASTM D 6938)**

PROJECT: Former Sperry Remington Site
LOCATION: Southern Excavation PROJECT NO.: MW0832B TASK NO.: 25
DESCRIPTION: Backfill Imported Fill DATE: 03 day 08 month 2017 year

SPECIFICATION REQUIREMENTS: MATERIAL SOURCE: Imported Fill 0-2 ft

MATERIAL TYPE: [X] FILL [ ] SUBGRADE [ ] SUBBASE [ ] CLAY [ ] OTHER: MAX. LIFT THICKNESS: 12 (in.)
MINIMUM COMPACTION: 95 (%) [ ] ASTM D 698 [ ] ASTM D 1557 MOISTURE CONTENT RANGE: - 4 to + 2 of OPT.
NUCLEAR GAUGE TYPE: Troxler 3440 GAUGE SERIAL NO.: 28790 CORRECTION FACTOR: Y=

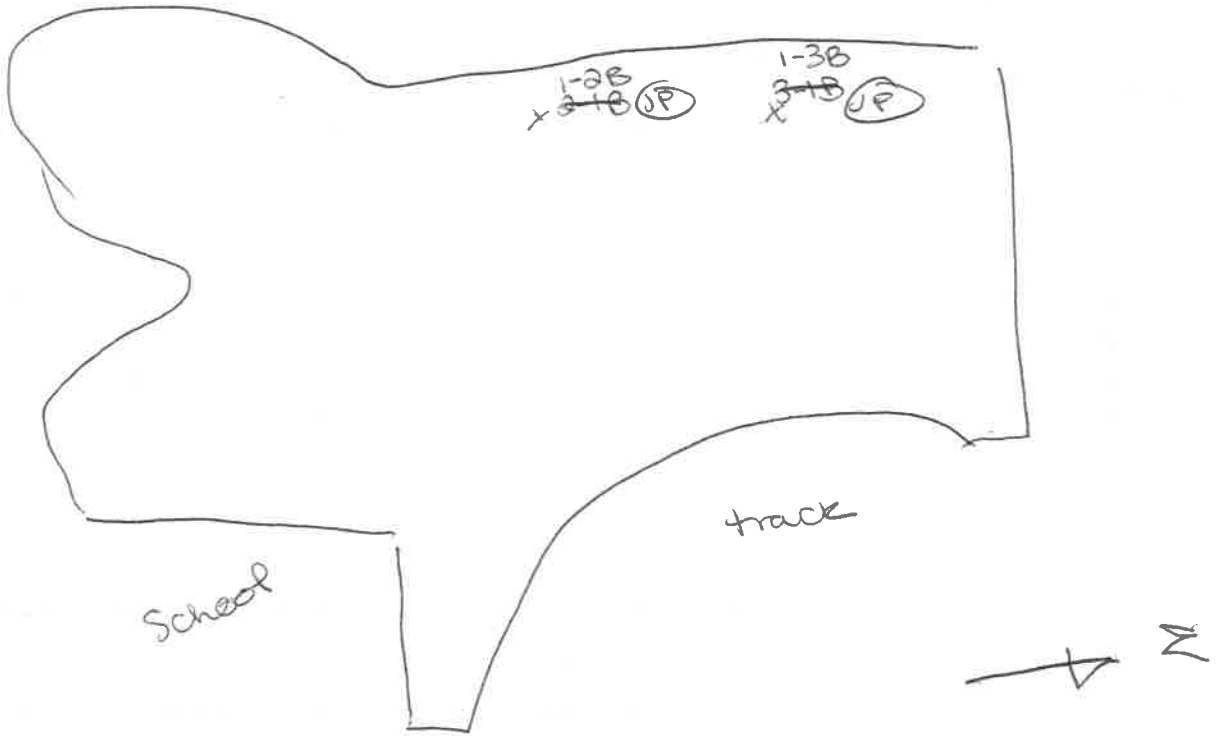
TEST NO.	TEST LOCATION	PROBE DEPTH / LIFT NO.	LABORATORY RESULTS			FIELD TEST RESULTS						RE-TEST NO.	RE-TEST	
			SAMPLE NO.	OMC (%)	MAX. DRY UNIT WT. (pcf)	FIELD MOISTURE CONTENT (%)	WET UNIT WT (pcf)	DRY UNIT WT (pcf)	PERCENT COMPACT. (%)	PASS	FAIL		PASS	FAIL
(WP) 1-2B	~~2-1B~~	South Excav. 12/1	Backfill3	6.4	138.5	4.9	150.4	143.3	103.5	X				
1-3B (JP)	~~3-1B~~	Area B 12/1	Backfill3	6.4	138.5	5.4	152.2	144.4	104.2	X				
		/1												
		/1												
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		/1												

NOTES:

COMMENTS:

CHECKED BY:

South Excav.
Area B



1st lift (1-2 ft)

Geosyntec consultants

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG **(ASTM D 6938)**

PROJECT: Former Sperry Remington site NY

LOCATION: South Excavation Elmira NY PROJECT NO.: MN0832B TASK NO.: 25

DESCRIPTION: Backfill at SE DATE: 05 day 08 month 2017 year

SPECIFICATION REQUIREMENTS: MATERIAL SOURCE:

MATERIAL TYPE: ☑ FILL ☐ SUBGRADE ☐ SUBBASE ☐ CLAY ☐ OTHER: MAX. LIFT THICKNESS: 12" (in.)

MINIMUM COMPACTION: 95 (%) ☐ ASTM D 698 ☐ ASTM D 1557 MOISTURE CONTENT RANGE: - 4 to + 2 of OPT.

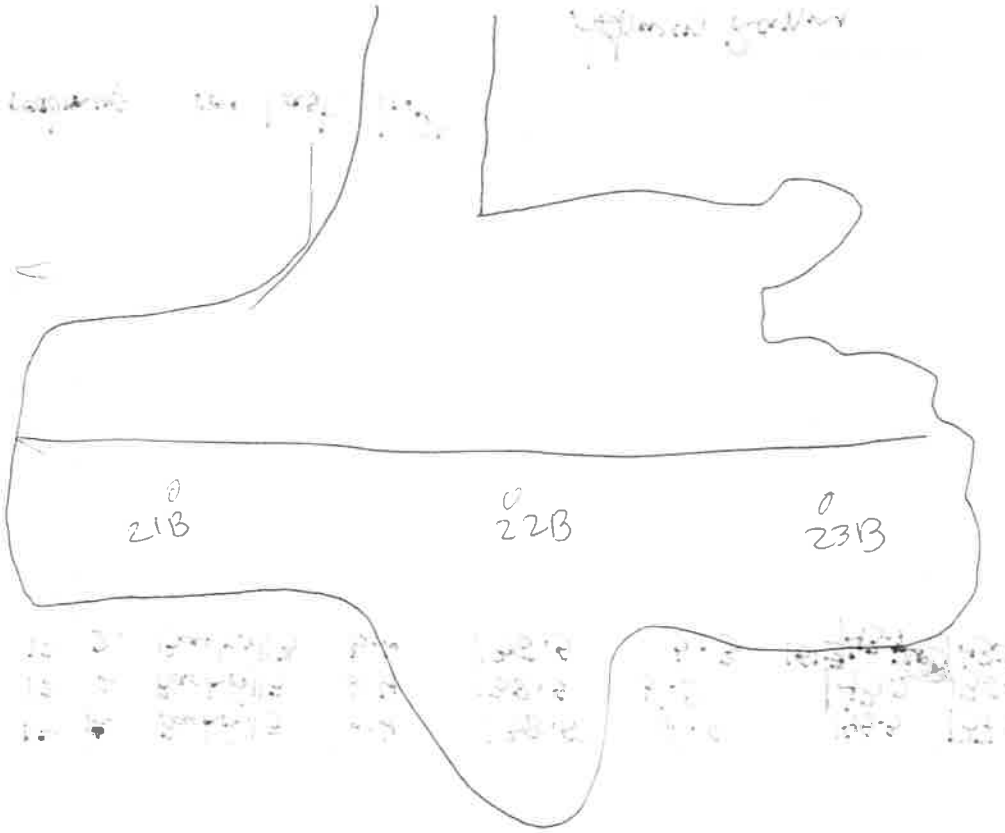
NUCLEAR GAUGE TYPE: Troxler 3440 GAUGE SERIAL NO.: 28790 CORRECTION FACTOR: Y=

TEST NO.	TEST LOCATION	PROBE DEPTH / LIFT NO.	LABORATORY RESULTS			FIELD TEST RESULTS						RE-TEST NO.	RE-TEST	
			SAMPLE NO.	OMC (%)	MAX. DRY UNIT WT. (pcf)	FIELD MOISTURE CONTENT (%)	WET UNIT WT (pcf)	DRY UNIT WT (pcf)	PERCENT COMPACT. (%)	PASS	FAIL		PASS	FAIL
21-B	West of SE	12/2	Backfill 3	6.4	138.5	6.0	145.3	137.1		✓				
22-B	West section SE	12/2	Backfill 3	6.4	138.5	5.0	143.2	136.5		✓				
23-B	West Section SE	12/2	Backfill 3	6.4	138.5	5.3	143.7	136.4		✓				
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		/												

NOTES:

COMMENTS: Last 3 readings for last lift

CHECKED BY: Ashwin Ramm


21B
22B
23B

Geosyntec consultants

FIELD NUCLEAR MOISTURE/DENSITY TEST LOG (ASTM D 6938)

PROJECT: Former Sperry Remington Site NY
LOCATION: South Excavation PROJECT NO.: MN023B TASK NO.: 25
DESCRIPTION: Backfill at SE DATE: 7 day 8 month 2017 year

SPECIFICATION REQUIREMENTS: MATERIAL SOURCE:

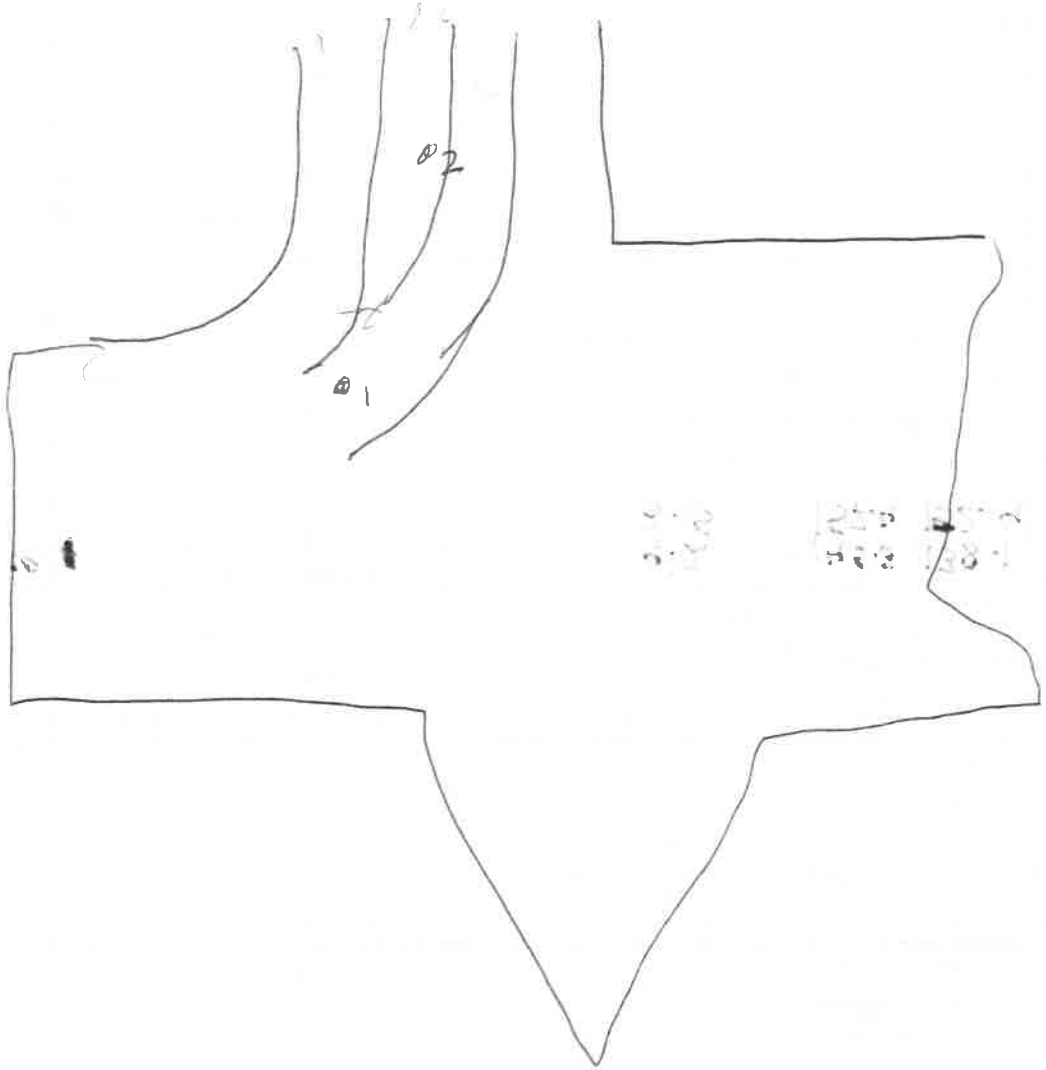
MATERIAL TYPE: ☑ FILL ☐ SUBGRADE ☐ SUBBASE ☐ CLAY ☐ OTHER: MAX. LIFT THICKNESS: (in.)
MINIMUM COMPACTION: 95 (%) ☐ ASTM D 698 ☐ ASTM D 1557 MOISTURE CONTENT RANGE: - 4 to + 2 of OPT.
NUCLEAR GAUGE TYPE: Troxler 3440 GAUGE SERIAL NO.: 28790 CORRECTION FACTOR: Y=

TEST NO.	TEST LOCATION	PROBE DEPTH / LIFT NO.	LABORATORY RESULTS			FIELD TEST RESULTS						RE-TEST NO.	RE-TEST	
			SAMPLE NO.	OMC (%)	MAX. DRY UNIT WT. (pcf)	FIELD MOISTURE CONTENT (%)	WET UNIT WT (pcf)	DRY UNIT WT (pcf)	PERCENT COMPACT. (%)	PASS	FAIL		PASS	FAIL
1	Access Road nSE	10/1	Backfill 3	6.4	139.5	4.2	145.3	138.1	99.71	✓				
2	East Access Road SE	8/1	Backfill 3	6.4	138.6	3.5	157.4	152.4	109.7	✓				
3		/												
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NOTES:

COMMENTS:

CHECKED BY:


Φ2
Φ1

Appendix K

Analytical Reports of Post Excavation Confirmation Samples

CME Associates, Inc.

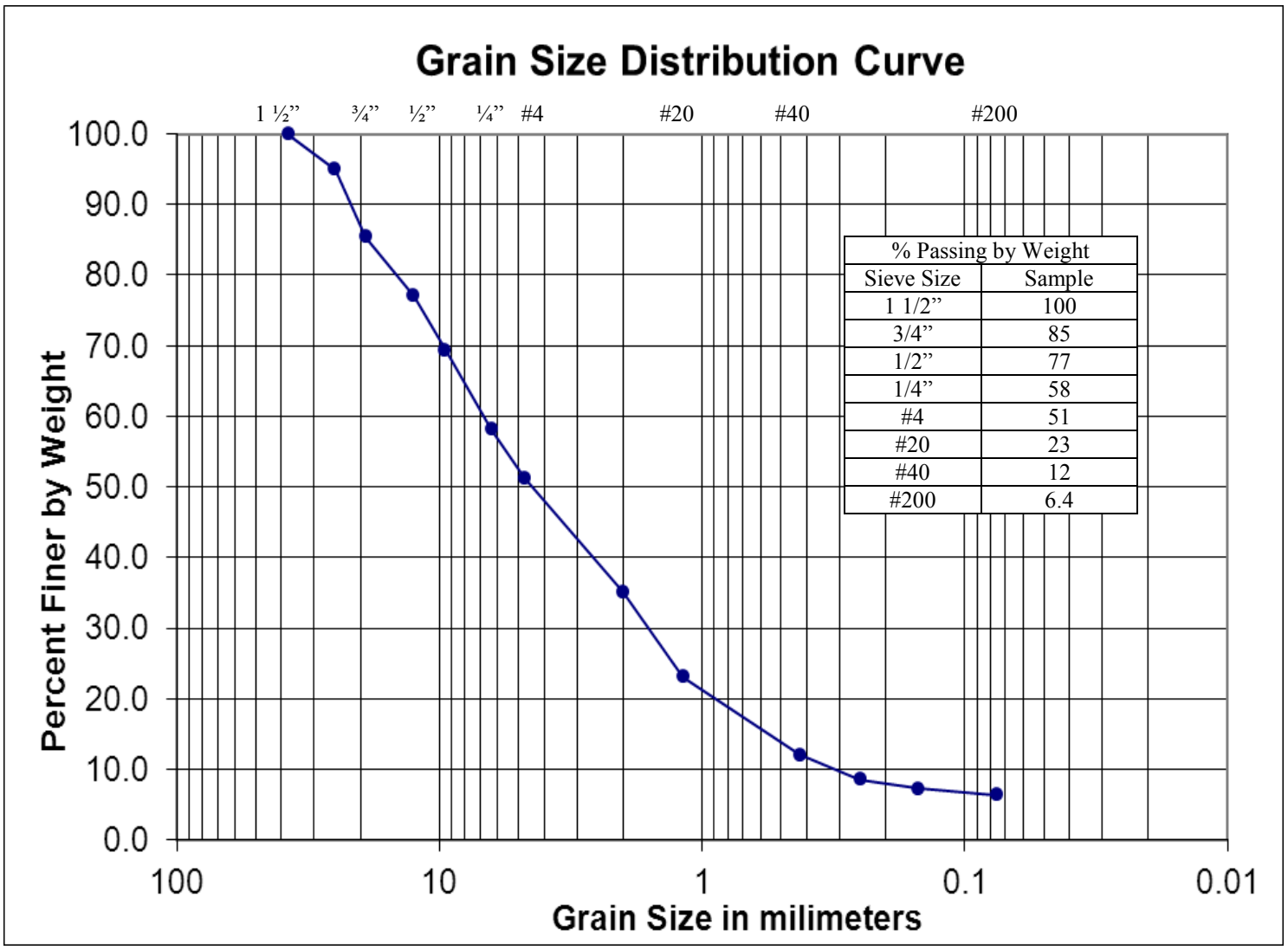
701B Chemung Street
Horseheads, New York 14845
(607) 739-4033
(607) 739-4085 (Fax)

www.cmeassociates.com

~Preliminary Report~

LABORATORY TEST REPORT

CLIENT: Edger Enterprises **PROJECT:** 2016 Laboratory Testing
REPORT NO.: 29729L-01-0716 **SAMPLE NO.:** EL – 2951 **DATE DELIVERED:** 07/22/2016
SAMPLE LOCATION: By Client. **SAMPLE SOURCE:** Brewer pit.
SOIL CLASSIFICATION: Brown cmf GRAVEL and cmf SAND, trace SILT



% Passing by Weight	
Sieve Size	Sample
1 1/2"	100
3/4"	85
1/2"	77
1/4"	58
#4	51
#20	23
#40	12
#200	6.4

No grain size requirements were provided for this material.

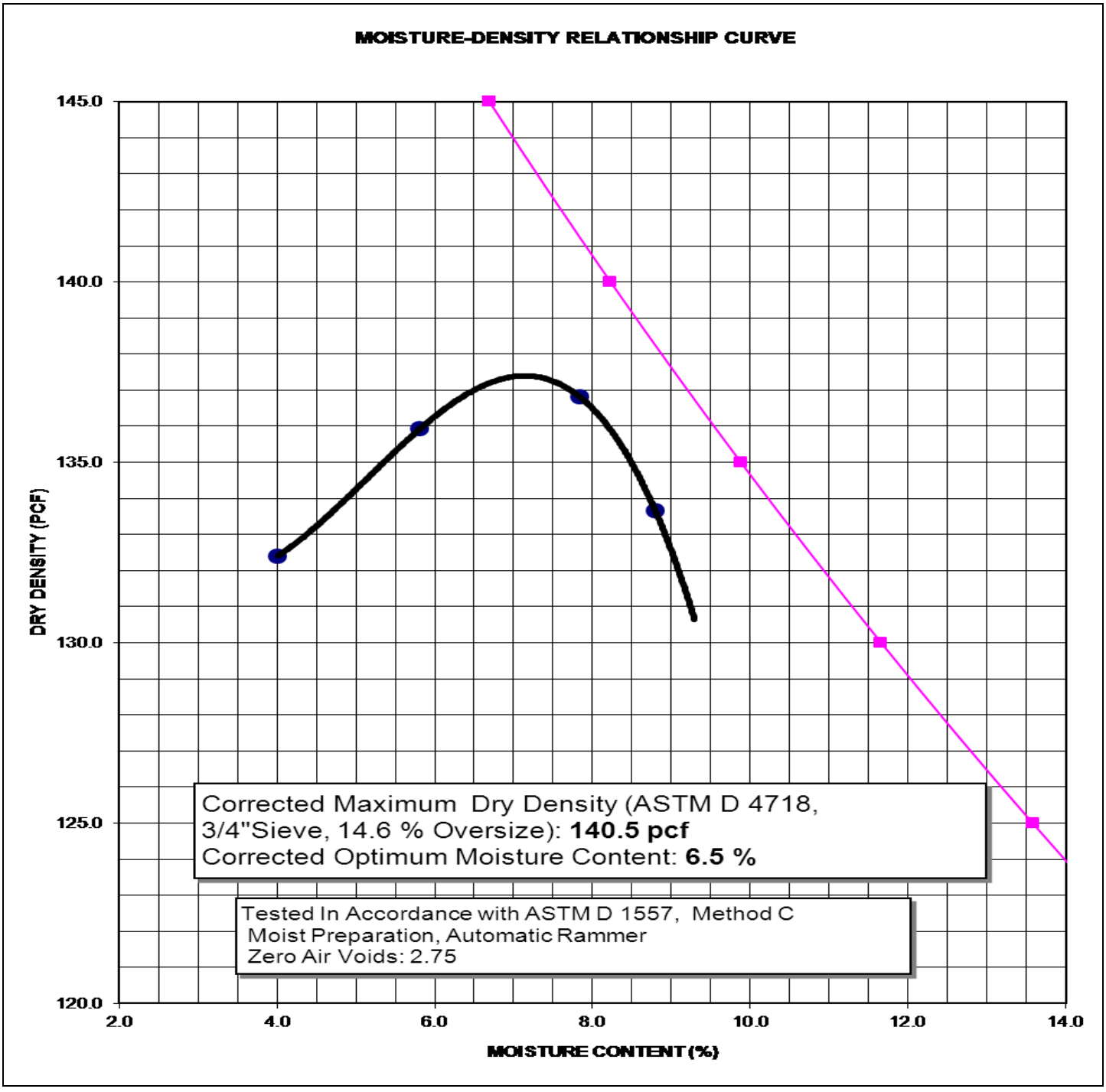
LABORATORY TEST REPORT

CLIENT: Edger Enterprises **PROJECT:** 2016 Laboratory Testing

REPORT NO.: 29729L-01-0716 **SAMPLE NO.:** EL – 2951 **DATE DELIVERED:** 07/22/2016

SAMPLE LOCATION: By Client. **SAMPLE SOURCE:** Brewer pit.

SOIL CLASSIFICATION: Brown cmf GRAVEL and cmf SAND, trace SILT



ANALYTICAL REPORT

June 20, 2017

Remedial Construction Services, L.P.

Sample Delivery Group:	L916338
Samples Received:	06/15/2017
Project Number:	23925
Description:	Elmira, NY

Report To:

Mr. John Geary
950 West Valley Rd.
Suite 2802
Wayne, PA 19087

Entire Report Reviewed By:

T. Alan Harvill
Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



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BREWERS_PIT_1 L916338-01 Solid

Collected by: Kyle Snyder
Collected date/time: 06/14/17 00:00
Received date/time: 06/15/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG990357	1	06/17/17 12:08	06/17/17 12:20	KDW
Volatile Organic Compounds (GC/MS) by Method 8260C	WG990989	1	06/14/17 00:00	06/20/17 13:08	JAH
Pesticides (GC) by Method 8081	WG990183	1	06/17/17 20:17	06/19/17 15:43	VKS
Polychlorinated Biphenyls (GC) by Method 8082	WG990183	1	06/17/17 20:17	06/19/17 13:19	JNS
Semi Volatile Organic Compounds (GC/MS) by Method 8270D	WG990189	1	06/16/17 23:24	06/20/17 10:37	ADF

BREWERS_PIT_2 L916338-02 Solid

Collected by: Kyle Snyder
Collected date/time: 06/14/17 00:00
Received date/time: 06/15/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG990405	1	06/19/17 08:35	06/19/17 08:55	KDW
Volatile Organic Compounds (GC/MS) by Method 8260C	WG990989	1	06/14/17 00:00	06/20/17 13:30	JAH
Pesticides (GC) by Method 8081	WG990183	1	06/17/17 20:17	06/19/17 15:55	VKS
Polychlorinated Biphenyls (GC) by Method 8082	WG990183	1	06/17/17 20:17	06/19/17 13:33	JNS
Semi Volatile Organic Compounds (GC/MS) by Method 8270D	WG990189	1	06/16/17 23:24	06/20/17 11:03	ADF

BREWERS_PIT_3 L916338-03 Solid

Collected by: Kyle Snyder
Collected date/time: 06/14/17 00:00
Received date/time: 06/15/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG990405	1	06/19/17 08:35	06/19/17 08:55	KDW
Volatile Organic Compounds (GC/MS) by Method 8260C	WG990989	1	06/14/17 00:00	06/20/17 13:53	JAH
Semi Volatile Organic Compounds (GC/MS) by Method 8270D	WG990189	1	06/16/17 23:24	06/20/17 11:28	ADF

BREWERS_PIT_4 L916338-04 Solid

Collected by: Kyle Snyder
Collected date/time: 06/14/17 00:00
Received date/time: 06/15/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG990405	1	06/19/17 08:35	06/19/17 08:55	KDW
Volatile Organic Compounds (GC/MS) by Method 8260C	WG990989	1	06/14/17 00:00	06/20/17 14:16	JAH
Semi Volatile Organic Compounds (GC/MS) by Method 8270D	WG990189	1	06/16/17 23:24	06/20/17 11:54	ADF

BREWERS_PIT_5 L916338-05 Solid

Collected by: Kyle Snyder
Collected date/time: 06/14/17 00:00
Received date/time: 06/15/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG990405	1	06/19/17 08:35	06/19/17 08:55	KDW
Volatile Organic Compounds (GC/MS) by Method 8260C	WG990989	1	06/14/17 00:00	06/20/17 14:38	JAH
Semi Volatile Organic Compounds (GC/MS) by Method 8270D	WG990189	1	06/16/17 23:24	06/20/17 12:19	ADF

BREWERS_PIT_6 L916338-06 Solid

Collected by: Kyle Snyder
Collected date/time: 06/14/17 00:00
Received date/time: 06/15/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG990405	1	06/19/17 08:35	06/19/17 08:55	KDW
Volatile Organic Compounds (GC/MS) by Method 8260C	WG990989	1	06/14/17 00:00	06/20/17 15:01	JAH
Semi Volatile Organic Compounds (GC/MS) by Method 8270D	WG990189	1	06/16/17 23:24	06/20/17 12:45	ADF

BREWERS_PIT_7 L916338-07 Solid

Collected by: Kyle Snyder
Collected date/time: 06/14/17 00:00
Received date/time: 06/15/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG990406	1	06/19/17 10:09	06/19/17 10:23	KDW
Volatile Organic Compounds (GC/MS) by Method 8260C	WG990989	1	06/14/17 00:00	06/20/17 15:23	JAH
Semi Volatile Organic Compounds (GC/MS) by Method 8270D	WG990189	1	06/16/17 23:24	06/20/17 13:11	ADF

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. All MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



T. Alan Harvill
Technical Service Representative

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	94.7		1	06/17/2017 12:20	WG990357

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	0.0126	J	0.0106	0.0528	1	06/20/2017 13:08	WG990989
Acrylonitrile	U		0.00189	0.0106	1	06/20/2017 13:08	WG990989
Benzene	0.00142		0.000285	0.00106	1	06/20/2017 13:08	WG990989
Bromobenzene	U		0.000300	0.00106	1	06/20/2017 13:08	WG990989
Bromodichloromethane	U		0.000268	0.00106	1	06/20/2017 13:08	WG990989
Bromoform	U		0.000448	0.00106	1	06/20/2017 13:08	WG990989
Bromomethane	U		0.00142	0.00528	1	06/20/2017 13:08	WG990989
n-Butylbenzene	U		0.000273	0.00106	1	06/20/2017 13:08	WG990989
sec-Butylbenzene	U		0.000212	0.00106	1	06/20/2017 13:08	WG990989
tert-Butylbenzene	U		0.000218	0.00106	1	06/20/2017 13:08	WG990989
Carbon tetrachloride	U		0.000346	0.00106	1	06/20/2017 13:08	WG990989
Chlorobenzene	U		0.000224	0.00106	1	06/20/2017 13:08	WG990989
Chlorodibromomethane	U		0.000394	0.00106	1	06/20/2017 13:08	WG990989
Chloroethane	U		0.000999	0.00528	1	06/20/2017 13:08	WG990989
Chloroform	U		0.000242	0.00528	1	06/20/2017 13:08	WG990989
Chloromethane	U		0.000396	0.00264	1	06/20/2017 13:08	WG990989
2-Chlorotoluene	U		0.000318	0.00106	1	06/20/2017 13:08	WG990989
4-Chlorotoluene	U		0.000254	0.00106	1	06/20/2017 13:08	WG990989
1,2-Dibromo-3-Chloropropane	U		0.00111	0.00528	1	06/20/2017 13:08	WG990989
1,2-Dibromoethane	U		0.000362	0.00106	1	06/20/2017 13:08	WG990989
Dibromomethane	U		0.000404	0.00106	1	06/20/2017 13:08	WG990989
1,2-Dichlorobenzene	U		0.000322	0.00106	1	06/20/2017 13:08	WG990989
1,3-Dichlorobenzene	U		0.000252	0.00106	1	06/20/2017 13:08	WG990989
1,4-Dichlorobenzene	U		0.000239	0.00106	1	06/20/2017 13:08	WG990989
Dichlorodifluoromethane	U		0.000753	0.00528	1	06/20/2017 13:08	WG990989
1,1-Dichloroethane	U		0.000210	0.00106	1	06/20/2017 13:08	WG990989
1,2-Dichloroethane	U		0.000280	0.00106	1	06/20/2017 13:08	WG990989
1,1-Dichloroethene	U		0.000320	0.00106	1	06/20/2017 13:08	WG990989
cis-1,2-Dichloroethene	U	J4	0.000248	0.00106	1	06/20/2017 13:08	WG990989
trans-1,2-Dichloroethene	U	J4	0.000279	0.00106	1	06/20/2017 13:08	WG990989
1,2-Dichloropropane	U		0.000378	0.00106	1	06/20/2017 13:08	WG990989
1,1-Dichloropropene	U		0.000335	0.00106	1	06/20/2017 13:08	WG990989
1,3-Dichloropropane	U		0.000219	0.00106	1	06/20/2017 13:08	WG990989
cis-1,3-Dichloropropene	U		0.000277	0.00106	1	06/20/2017 13:08	WG990989
trans-1,3-Dichloropropene	U		0.000282	0.00106	1	06/20/2017 13:08	WG990989
2,2-Dichloropropane	U		0.000295	0.00106	1	06/20/2017 13:08	WG990989
Di-isopropyl ether	U		0.000262	0.00106	1	06/20/2017 13:08	WG990989
Ethylbenzene	U		0.000314	0.00106	1	06/20/2017 13:08	WG990989
Hexachloro-1,3-butadiene	U		0.000361	0.00106	1	06/20/2017 13:08	WG990989
Isopropylbenzene	U		0.000257	0.00106	1	06/20/2017 13:08	WG990989
p-Isopropyltoluene	U		0.000215	0.00106	1	06/20/2017 13:08	WG990989
2-Butanone (MEK)	U	J0	0.00494	0.0106	1	06/20/2017 13:08	WG990989
Methylene Chloride	U		0.00106	0.00528	1	06/20/2017 13:08	WG990989
4-Methyl-2-pentanone (MIBK)	U		0.00199	0.0106	1	06/20/2017 13:08	WG990989
Methyl tert-butyl ether	U		0.000224	0.00106	1	06/20/2017 13:08	WG990989
Naphthalene	U		0.00106	0.00528	1	06/20/2017 13:08	WG990989
n-Propylbenzene	U		0.000218	0.00106	1	06/20/2017 13:08	WG990989
Styrene	U		0.000247	0.00106	1	06/20/2017 13:08	WG990989
1,1,1,2-Tetrachloroethane	U		0.000279	0.00106	1	06/20/2017 13:08	WG990989
1,1,2,2-Tetrachloroethane	U		0.000386	0.00106	1	06/20/2017 13:08	WG990989

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.000386	0.00106	1	06/20/2017 13:08	WG990989
Tetrachloroethene	U		0.000292	0.00106	1	06/20/2017 13:08	WG990989
Toluene	0.00230	J	0.000458	0.00528	1	06/20/2017 13:08	WG990989
1,2,3-Trichlorobenzene	U		0.000323	0.00106	1	06/20/2017 13:08	WG990989
1,2,4-Trichlorobenzene	U		0.000410	0.00106	1	06/20/2017 13:08	WG990989
1,1,1-Trichloroethane	U		0.000302	0.00106	1	06/20/2017 13:08	WG990989
1,1,2-Trichloroethane	U		0.000293	0.00106	1	06/20/2017 13:08	WG990989
Trichloroethene	U		0.000295	0.00106	1	06/20/2017 13:08	WG990989
Trichlorofluoromethane	U		0.000404	0.00528	1	06/20/2017 13:08	WG990989
1,2,3-Trichloropropane	U		0.000783	0.00264	1	06/20/2017 13:08	WG990989
1,2,4-Trimethylbenzene	0.000479	J	0.000223	0.00106	1	06/20/2017 13:08	WG990989
1,2,3-Trimethylbenzene	U		0.000303	0.00106	1	06/20/2017 13:08	WG990989
Vinyl chloride	U		0.000307	0.00106	1	06/20/2017 13:08	WG990989
1,3,5-Trimethylbenzene	0.000312	J	0.000281	0.00106	1	06/20/2017 13:08	WG990989
Xylenes, Total	0.00184	J	0.000737	0.00317	1	06/20/2017 13:08	WG990989
(S) Toluene-d8	*102*			*80.0-120*		*06/20/2017 13:08*	WG990989
(S) Dibromofluoromethane	*122*			*74.0-131*		*06/20/2017 13:08*	WG990989
(S) 4-Bromofluorobenzene	*93.2*			*64.0-132*		*06/20/2017 13:08*	WG990989

Pesticides (GC) by Method 8081

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Aldrin	U		0.00143	0.0211	1	06/19/2017 15:43	WG990183
Alpha BHC	U		0.00144	0.0211	1	06/19/2017 15:43	WG990183
Beta BHC	U		0.00169	0.0211	1	06/19/2017 15:43	WG990183
Delta BHC	U		0.00151	0.0211	1	06/19/2017 15:43	WG990183
Gamma BHC	U		0.00153	0.0211	1	06/19/2017 15:43	WG990183
Chlordane	U		0.0412	0.211	1	06/19/2017 15:43	WG990183
4,4-DDD	U		0.00165	0.0211	1	06/19/2017 15:43	WG990183
4,4-DDE	U		0.00163	0.0211	1	06/19/2017 15:43	WG990183
4,4-DDT	U		0.00211	0.0211	1	06/19/2017 15:43	WG990183
Dieldrin	U		0.00161	0.0211	1	06/19/2017 15:43	WG990183
Endosulfan I	U		0.00157	0.0211	1	06/19/2017 15:43	WG990183
Endosulfan II	U		0.00169	0.0211	1	06/19/2017 15:43	WG990183
Endosulfan sulfate	U		0.00160	0.0211	1	06/19/2017 15:43	WG990183
Endrin	U		0.00166	0.0211	1	06/19/2017 15:43	WG990183
Endrin aldehyde	U		0.00136	0.0211	1	06/19/2017 15:43	WG990183
Endrin ketone	U		0.00174	0.0211	1	06/19/2017 15:43	WG990183
Heptachlor	U		0.00163	0.0211	1	06/19/2017 15:43	WG990183
Heptachlor epoxide	U		0.00170	0.0211	1	06/19/2017 15:43	WG990183
Hexachlorobenzene	U		0.00131	0.0211	1	06/19/2017 15:43	WG990183
Methoxychlor	U		0.00188	0.0211	1	06/19/2017 15:43	WG990183
Toxaphene	U		0.0380	0.423	1	06/19/2017 15:43	WG990183
(S) Decachlorobiphenyl	*86.6*			*10.0-148*		*06/19/2017 15:43*	WG990183
(S) Tetrachloro-m-xylene	*84.2*			*21.0-146*		*06/19/2017 15:43*	WG990183

Polychlorinated Biphenyls (GC) by Method 8082

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
PCB 1016	U		0.00370	0.0180	1	06/19/2017 13:19	WG990183
PCB 1221	U		0.00567	0.0180	1	06/19/2017 13:19	WG990183
PCB 1232	U		0.00440	0.0180	1	06/19/2017 13:19	WG990183
PCB 1242	U		0.00336	0.0180	1	06/19/2017 13:19	WG990183
PCB 1248	U		0.00333	0.0180	1	06/19/2017 13:19	WG990183
PCB 1254	U		0.00499	0.0180	1	06/19/2017 13:19	WG990183

Polychlorinated Biphenyls (GC) by Method 8082

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
PCB 1260	U		0.00522	0.0180	1	06/19/2017 13:19	WG990183
(S) Decachlorobiphenyl	*129*			*10.0-148*		*06/19/2017 13:19*	WG990183
(S) Tetrachloro-m-xylene	*96.2*			*21.0-146*		*06/19/2017 13:19*	WG990183

Semi Volatile Organic Compounds (GC/MS) by Method 8270D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	U		0.00678	0.0349	1	06/20/2017 10:37	WG990189
Acenaphthylene	U		0.00709	0.0349	1	06/20/2017 10:37	WG990189
Anthracene	U		0.00668	0.0349	1	06/20/2017 10:37	WG990189
Benzidine	U	J4	0.0673	0.352	1	06/20/2017 10:37	WG990189
Benzo(a)anthracene	U		0.00452	0.0349	1	06/20/2017 10:37	WG990189
Benzo(b)fluoranthene	U		0.00734	0.0349	1	06/20/2017 10:37	WG990189
Benzo(k)fluoranthene	U		0.00615	0.0349	1	06/20/2017 10:37	WG990189
Benzo(g,h,i)perylene	U		0.00762	0.0349	1	06/20/2017 10:37	WG990189
Benzo(a)pyrene	U		0.00579	0.0349	1	06/20/2017 10:37	WG990189
Bis(2-chlorethoxy)methane	U		0.00813	0.352	1	06/20/2017 10:37	WG990189
Bis(2-chloroethyl)ether	U		0.00946	0.352	1	06/20/2017 10:37	WG990189
Bis(2-chloroisopropyl)ether	U		0.00803	0.352	1	06/20/2017 10:37	WG990189
4-Bromophenyl-phenylether	U		0.0120	0.352	1	06/20/2017 10:37	WG990189
2-Chloronaphthalene	U		0.00675	0.0349	1	06/20/2017 10:37	WG990189
4-Chlorophenyl-phenylether	U		0.00662	0.352	1	06/20/2017 10:37	WG990189
Chrysene	U		0.00586	0.0349	1	06/20/2017 10:37	WG990189
Dibenz(a,h)anthracene	U		0.00867	0.0349	1	06/20/2017 10:37	WG990189
3,3-Dichlorobenzidine	U	J4	0.0839	0.352	1	06/20/2017 10:37	WG990189
2,4-Dinitrotoluene	U		0.00641	0.352	1	06/20/2017 10:37	WG990189
2,6-Dinitrotoluene	U		0.00778	0.352	1	06/20/2017 10:37	WG990189
Fluoranthene	U		0.00524	0.0349	1	06/20/2017 10:37	WG990189
Fluorene	U		0.00720	0.0349	1	06/20/2017 10:37	WG990189
Hexachlorobenzene	U		0.00904	0.352	1	06/20/2017 10:37	WG990189
Hexachloro-1,3-butadiene	U		0.0106	0.352	1	06/20/2017 10:37	WG990189
Hexachlorocyclopentadiene	U		0.0620	0.352	1	06/20/2017 10:37	WG990189
Hexachloroethane	U		0.0142	0.352	1	06/20/2017 10:37	WG990189
Indeno(1,2,3-cd)pyrene	U		0.00815	0.0349	1	06/20/2017 10:37	WG990189
Isophorone	U		0.00551	0.352	1	06/20/2017 10:37	WG990189
Naphthalene	U		0.00939	0.0349	1	06/20/2017 10:37	WG990189
Nitrobenzene	U		0.00734	0.352	1	06/20/2017 10:37	WG990189
n-Nitrosodimethylamine	U		0.0683	0.352	1	06/20/2017 10:37	WG990189
n-Nitrosodiphenylamine	U		0.00627	0.352	1	06/20/2017 10:37	WG990189
n-Nitrosodi-n-propylamine	U		0.00957	0.352	1	06/20/2017 10:37	WG990189
Phenanthrene	U		0.00558	0.0349	1	06/20/2017 10:37	WG990189
Benzylbutyl phthalate	U		0.0109	0.352	1	06/20/2017 10:37	WG990189
Bis(2-ethylhexyl)phthalate	U		0.0127	0.352	1	06/20/2017 10:37	WG990189
Di-n-butyl phthalate	U		0.0115	0.352	1	06/20/2017 10:37	WG990189
Diethyl phthalate	U		0.00730	0.352	1	06/20/2017 10:37	WG990189
Dimethyl phthalate	U		0.00570	0.352	1	06/20/2017 10:37	WG990189
Di-n-octyl phthalate	U		0.00958	0.352	1	06/20/2017 10:37	WG990189
Pyrene	U		0.0130	0.0349	1	06/20/2017 10:37	WG990189
1,2,4-Trichlorobenzene	U		0.00925	0.352	1	06/20/2017 10:37	WG990189
4-Chloro-3-methylphenol	U		0.00504	0.352	1	06/20/2017 10:37	WG990189
2-Chlorophenol	U		0.00878	0.352	1	06/20/2017 10:37	WG990189
2,4-Dichlorophenol	U		0.00788	0.352	1	06/20/2017 10:37	WG990189
2,4-Dimethylphenol	U		0.0498	0.352	1	06/20/2017 10:37	WG990189
4,6-Dinitro-2-methylphenol	U		0.131	0.352	1	06/20/2017 10:37	WG990189
2,4-Dinitrophenol	U	J3	0.104	0.352	1	06/20/2017 10:37	WG990189
2-Nitrophenol	U		0.0137	0.352	1	06/20/2017 10:37	WG990189

Semi Volatile Organic Compounds (GC/MS) by Method 8270D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
4-Nitrophenol	U		0.0555	0.352	1	06/20/2017 10:37	WG990189
Pentachlorophenol	U		0.0507	0.352	1	06/20/2017 10:37	WG990189
Phenol	U		0.00734	0.352	1	06/20/2017 10:37	WG990189
2,4,6-Trichlorophenol	U		0.00823	0.352	1	06/20/2017 10:37	WG990189
(S) 2-Fluorophenol	*62.6*			*20.0-120*		*06/20/2017 10:37*	WG990189
(S) Phenol-d5	*64.0*			*20.0-120*		*06/20/2017 10:37*	WG990189
(S) Nitrobenzene-d5	*59.3*			*18.0-125*		*06/20/2017 10:37*	WG990189
(S) 2-Fluorobiphenyl	*60.5*			*28.0-120*		*06/20/2017 10:37*	WG990189
(S) 2,4,6-Tribromophenol	*78.2*			*17.0-137*		*06/20/2017 10:37*	WG990189
(S) p-Terphenyl-d14	*65.8*			*13.0-131*		*06/20/2017 10:37*	WG990189

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	93.5		1	06/19/2017 08:55	WG990405

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	0.0153	J	0.0107	0.0535	1	06/20/2017 13:30	WG990989
Acrylonitrile	U		0.00192	0.0107	1	06/20/2017 13:30	WG990989
Benzene	0.00198		0.000289	0.00107	1	06/20/2017 13:30	WG990989
Bromobenzene	U		0.000304	0.00107	1	06/20/2017 13:30	WG990989
Bromodichloromethane	U		0.000272	0.00107	1	06/20/2017 13:30	WG990989
Bromoform	U		0.000454	0.00107	1	06/20/2017 13:30	WG990989
Bromomethane	U		0.00143	0.00535	1	06/20/2017 13:30	WG990989
n-Butylbenzene	U		0.000276	0.00107	1	06/20/2017 13:30	WG990989
sec-Butylbenzene	U		0.000215	0.00107	1	06/20/2017 13:30	WG990989
tert-Butylbenzene	U		0.000220	0.00107	1	06/20/2017 13:30	WG990989
Carbon tetrachloride	U		0.000351	0.00107	1	06/20/2017 13:30	WG990989
Chlorobenzene	U		0.000227	0.00107	1	06/20/2017 13:30	WG990989
Chlorodibromomethane	U		0.000399	0.00107	1	06/20/2017 13:30	WG990989
Chloroethane	U		0.00101	0.00535	1	06/20/2017 13:30	WG990989
Chloroform	U		0.000245	0.00535	1	06/20/2017 13:30	WG990989
Chloromethane	U		0.000401	0.00268	1	06/20/2017 13:30	WG990989
2-Chlorotoluene	U		0.000322	0.00107	1	06/20/2017 13:30	WG990989
4-Chlorotoluene	U		0.000257	0.00107	1	06/20/2017 13:30	WG990989
1,2-Dibromo-3-Chloropropane	U		0.00112	0.00535	1	06/20/2017 13:30	WG990989
1,2-Dibromoethane	U		0.000367	0.00107	1	06/20/2017 13:30	WG990989
Dibromomethane	U		0.000409	0.00107	1	06/20/2017 13:30	WG990989
1,2-Dichlorobenzene	U		0.000326	0.00107	1	06/20/2017 13:30	WG990989
1,3-Dichlorobenzene	U		0.000256	0.00107	1	06/20/2017 13:30	WG990989
1,4-Dichlorobenzene	U		0.000242	0.00107	1	06/20/2017 13:30	WG990989
Dichlorodifluoromethane	U		0.000763	0.00535	1	06/20/2017 13:30	WG990989
1,1-Dichloroethane	U		0.000213	0.00107	1	06/20/2017 13:30	WG990989
1,2-Dichloroethane	U		0.000284	0.00107	1	06/20/2017 13:30	WG990989
1,1-Dichloroethene	U		0.000324	0.00107	1	06/20/2017 13:30	WG990989
cis-1,2-Dichloroethene	U	J4	0.000251	0.00107	1	06/20/2017 13:30	WG990989
trans-1,2-Dichloroethene	U	J4	0.000282	0.00107	1	06/20/2017 13:30	WG990989
1,2-Dichloropropane	U		0.000383	0.00107	1	06/20/2017 13:30	WG990989
1,1-Dichloropropene	U		0.000339	0.00107	1	06/20/2017 13:30	WG990989
1,3-Dichloropropane	U		0.000222	0.00107	1	06/20/2017 13:30	WG990989
cis-1,3-Dichloropropene	U		0.000280	0.00107	1	06/20/2017 13:30	WG990989
trans-1,3-Dichloropropene	U		0.000286	0.00107	1	06/20/2017 13:30	WG990989
2,2-Dichloropropane	U		0.000299	0.00107	1	06/20/2017 13:30	WG990989
Di-isopropyl ether	U		0.000265	0.00107	1	06/20/2017 13:30	WG990989
Ethylbenzene	U		0.000318	0.00107	1	06/20/2017 13:30	WG990989
Hexachloro-1,3-butadiene	U		0.000366	0.00107	1	06/20/2017 13:30	WG990989
Isopropylbenzene	U		0.000260	0.00107	1	06/20/2017 13:30	WG990989
p-Isopropyltoluene	U		0.000218	0.00107	1	06/20/2017 13:30	WG990989
2-Butanone (MEK)	U	J0	0.00501	0.0107	1	06/20/2017 13:30	WG990989
Methylene Chloride	U		0.00107	0.00535	1	06/20/2017 13:30	WG990989
4-Methyl-2-pentanone (MIBK)	U		0.00201	0.0107	1	06/20/2017 13:30	WG990989
Methyl tert-butyl ether	U		0.000227	0.00107	1	06/20/2017 13:30	WG990989
Naphthalene	U		0.00107	0.00535	1	06/20/2017 13:30	WG990989
n-Propylbenzene	U		0.000220	0.00107	1	06/20/2017 13:30	WG990989
Styrene	U		0.000250	0.00107	1	06/20/2017 13:30	WG990989
1,1,1,2-Tetrachloroethane	U		0.000282	0.00107	1	06/20/2017 13:30	WG990989
1,1,2,2-Tetrachloroethane	U		0.000391	0.00107	1	06/20/2017 13:30	WG990989

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.000391	0.00107	1	06/20/2017 13:30	WG990989
Tetrachloroethene	U		0.000295	0.00107	1	06/20/2017 13:30	WG990989
Toluene	0.00374	J	0.000464	0.00535	1	06/20/2017 13:30	WG990989
1,2,3-Trichlorobenzene	U		0.000327	0.00107	1	06/20/2017 13:30	WG990989
1,2,4-Trichlorobenzene	U		0.000415	0.00107	1	06/20/2017 13:30	WG990989
1,1,1-Trichloroethane	U		0.000306	0.00107	1	06/20/2017 13:30	WG990989
1,1,2-Trichloroethane	U		0.000296	0.00107	1	06/20/2017 13:30	WG990989
Trichloroethene	U		0.000299	0.00107	1	06/20/2017 13:30	WG990989
Trichlorofluoromethane	U		0.000409	0.00535	1	06/20/2017 13:30	WG990989
1,2,3-Trichloropropane	U		0.000793	0.00268	1	06/20/2017 13:30	WG990989
1,2,4-Trimethylbenzene	0.000661	J	0.000226	0.00107	1	06/20/2017 13:30	WG990989
1,2,3-Trimethylbenzene	U		0.000307	0.00107	1	06/20/2017 13:30	WG990989
Vinyl chloride	U		0.000311	0.00107	1	06/20/2017 13:30	WG990989
1,3,5-Trimethylbenzene	0.000399	J	0.000285	0.00107	1	06/20/2017 13:30	WG990989
Xylenes, Total	0.00293	J	0.000747	0.00321	1	06/20/2017 13:30	WG990989
(S) Toluene-d8	*104*			*80.0-120*		*06/20/2017 13:30*	WG990989
(S) Dibromofluoromethane	*122*			*74.0-131*		*06/20/2017 13:30*	WG990989
(S) 4-Bromofluorobenzene	*92.3*			*64.0-132*		*06/20/2017 13:30*	WG990989

Pesticides (GC) by Method 8081

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Aldrin	U		0.00144	0.0214	1	06/19/2017 15:55	WG990183
Alpha BHC	U		0.00146	0.0214	1	06/19/2017 15:55	WG990183
Beta BHC	U		0.00171	0.0214	1	06/19/2017 15:55	WG990183
Delta BHC	U		0.00153	0.0214	1	06/19/2017 15:55	WG990183
Gamma BHC	U		0.00155	0.0214	1	06/19/2017 15:55	WG990183
Chlordane	U		0.0417	0.214	1	06/19/2017 15:55	WG990183
4,4-DDD	U		0.00167	0.0214	1	06/19/2017 15:55	WG990183
4,4-DDE	U		0.00165	0.0214	1	06/19/2017 15:55	WG990183
4,4-DDT	U		0.00214	0.0214	1	06/19/2017 15:55	WG990183
Dieldrin	U		0.00163	0.0214	1	06/19/2017 15:55	WG990183
Endosulfan I	U		0.00159	0.0214	1	06/19/2017 15:55	WG990183
Endosulfan II	U		0.00171	0.0214	1	06/19/2017 15:55	WG990183
Endosulfan sulfate	U		0.00162	0.0214	1	06/19/2017 15:55	WG990183
Endrin	U		0.00168	0.0214	1	06/19/2017 15:55	WG990183
Endrin aldehyde	U		0.00138	0.0214	1	06/19/2017 15:55	WG990183
Endrin ketone	U		0.00177	0.0214	1	06/19/2017 15:55	WG990183
Heptachlor	U		0.00165	0.0214	1	06/19/2017 15:55	WG990183
Heptachlor epoxide	U		0.00172	0.0214	1	06/19/2017 15:55	WG990183
Hexachlorobenzene	U		0.00133	0.0214	1	06/19/2017 15:55	WG990183
Methoxychlor	U		0.00190	0.0214	1	06/19/2017 15:55	WG990183
Toxaphene	U		0.0385	0.428	1	06/19/2017 15:55	WG990183
(S) Decachlorobiphenyl	*99.2*			*10.0-148*		*06/19/2017 15:55*	WG990183
(S) Tetrachloro-m-xylene	*86.8*			*21.0-146*		*06/19/2017 15:55*	WG990183

Polychlorinated Biphenyls (GC) by Method 8082

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
PCB 1016	U		0.00375	0.0182	1	06/19/2017 13:33	WG990183
PCB 1221	U		0.00575	0.0182	1	06/19/2017 13:33	WG990183
PCB 1232	U		0.00446	0.0182	1	06/19/2017 13:33	WG990183
PCB 1242	U		0.00340	0.0182	1	06/19/2017 13:33	WG990183
PCB 1248	U		0.00337	0.0182	1	06/19/2017 13:33	WG990183
PCB 1254	U		0.00505	0.0182	1	06/19/2017 13:33	WG990183

Polychlorinated Biphenyls (GC) by Method 8082

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
PCB 1260	U		0.00529	0.0182	1	06/19/2017 13:33	WG990183
(S) Decachlorobiphenyl	*138*			*10.0-148*		*06/19/2017 13:33*	WG990183
(S) Tetrachloro-m-xylene	*98.4*			*21.0-146*		*06/19/2017 13:33*	WG990183

Semi Volatile Organic Compounds (GC/MS) by Method 8270D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	U		0.00687	0.0353	1	06/20/2017 11:03	WG990189
Acenaphthylene	U		0.00718	0.0353	1	06/20/2017 11:03	WG990189
Anthracene	U		0.00676	0.0353	1	06/20/2017 11:03	WG990189
Benzidine	U	J4	0.0682	0.356	1	06/20/2017 11:03	WG990189
Benzo(a)anthracene	U		0.00458	0.0353	1	06/20/2017 11:03	WG990189
Benzo(b)fluoranthene	U		0.00744	0.0353	1	06/20/2017 11:03	WG990189
Benzo(k)fluoranthene	U		0.00623	0.0353	1	06/20/2017 11:03	WG990189
Benzo(g,h,i)perylene	U		0.00772	0.0353	1	06/20/2017 11:03	WG990189
Benzo(a)pyrene	U		0.00586	0.0353	1	06/20/2017 11:03	WG990189
Bis(2-chlorethoxy)methane	U		0.00824	0.356	1	06/20/2017 11:03	WG990189
Bis(2-chloroethyl)ether	U		0.00959	0.356	1	06/20/2017 11:03	WG990189
Bis(2-chloroisopropyl)ether	U		0.00813	0.356	1	06/20/2017 11:03	WG990189
4-Bromophenyl-phenylether	U		0.0122	0.356	1	06/20/2017 11:03	WG990189
2-Chloronaphthalene	U		0.00684	0.0353	1	06/20/2017 11:03	WG990189
4-Chlorophenyl-phenylether	U		0.00671	0.356	1	06/20/2017 11:03	WG990189
Chrysene	U		0.00594	0.0353	1	06/20/2017 11:03	WG990189
Dibenz(a,h)anthracene	U		0.00879	0.0353	1	06/20/2017 11:03	WG990189
3,3-Dichlorobenzidine	U	J4	0.0850	0.356	1	06/20/2017 11:03	WG990189
2,4-Dinitrotoluene	U		0.00650	0.356	1	06/20/2017 11:03	WG990189
2,6-Dinitrotoluene	U		0.00789	0.356	1	06/20/2017 11:03	WG990189
Fluoranthene	U		0.00531	0.0353	1	06/20/2017 11:03	WG990189
Fluorene	U		0.00730	0.0353	1	06/20/2017 11:03	WG990189
Hexachlorobenzene	U		0.00916	0.356	1	06/20/2017 11:03	WG990189
Hexachloro-1,3-butadiene	U		0.0107	0.356	1	06/20/2017 11:03	WG990189
Hexachlorocyclopentadiene	U		0.0628	0.356	1	06/20/2017 11:03	WG990189
Hexachloroethane	U		0.0143	0.356	1	06/20/2017 11:03	WG990189
Indeno(1,2,3-cd)pyrene	U		0.00826	0.0353	1	06/20/2017 11:03	WG990189
Isophorone	U		0.00559	0.356	1	06/20/2017 11:03	WG990189
Naphthalene	U		0.00951	0.0353	1	06/20/2017 11:03	WG990189
Nitrobenzene	U		0.00744	0.356	1	06/20/2017 11:03	WG990189
n-Nitrosodimethylamine	U		0.0692	0.356	1	06/20/2017 11:03	WG990189
n-Nitrosodiphenylamine	U		0.00636	0.356	1	06/20/2017 11:03	WG990189
n-Nitrosodi-n-propylamine	U		0.00969	0.356	1	06/20/2017 11:03	WG990189
Phenanthrene	U		0.00565	0.0353	1	06/20/2017 11:03	WG990189
Benzylbutyl phthalate	U		0.0110	0.356	1	06/20/2017 11:03	WG990189
Bis(2-ethylhexyl)phthalate	U		0.0128	0.356	1	06/20/2017 11:03	WG990189
Di-n-butyl phthalate	U		0.0117	0.356	1	06/20/2017 11:03	WG990189
Diethyl phthalate	U		0.00739	0.356	1	06/20/2017 11:03	WG990189
Dimethyl phthalate	U		0.00578	0.356	1	06/20/2017 11:03	WG990189
Di-n-octyl phthalate	U		0.00971	0.356	1	06/20/2017 11:03	WG990189
Pyrene	U		0.0132	0.0353	1	06/20/2017 11:03	WG990189
1,2,4-Trichlorobenzene	U		0.00937	0.356	1	06/20/2017 11:03	WG990189
4-Chloro-3-methylphenol	U		0.00510	0.356	1	06/20/2017 11:03	WG990189
2-Chlorophenol	U		0.00889	0.356	1	06/20/2017 11:03	WG990189
2,4-Dichlorophenol	U		0.00798	0.356	1	06/20/2017 11:03	WG990189
2,4-Dimethylphenol	U		0.0504	0.356	1	06/20/2017 11:03	WG990189
4,6-Dinitro-2-methylphenol	U		0.133	0.356	1	06/20/2017 11:03	WG990189
2,4-Dinitrophenol	U	J3	0.105	0.356	1	06/20/2017 11:03	WG990189
2-Nitrophenol	U		0.0139	0.356	1	06/20/2017 11:03	WG990189

Semi Volatile Organic Compounds (GC/MS) by Method 8270D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
4-Nitrophenol	U		0.0562	0.356	1	06/20/2017 11:03	WG990189
Pentachlorophenol	U		0.0514	0.356	1	06/20/2017 11:03	WG990189
Phenol	U		0.00744	0.356	1	06/20/2017 11:03	WG990189
2,4,6-Trichlorophenol	U		0.00834	0.356	1	06/20/2017 11:03	WG990189
(S) 2-Fluorophenol	*60.9*			*20.0-120*		*06/20/2017 11:03*	WG990189
(S) Phenol-d5	*60.8*			*20.0-120*		*06/20/2017 11:03*	WG990189
(S) Nitrobenzene-d5	*52.9*			*18.0-125*		*06/20/2017 11:03*	WG990189
(S) 2-Fluorobiphenyl	*64.3*			*28.0-120*		*06/20/2017 11:03*	WG990189
(S) 2,4,6-Tribromophenol	*83.6*			*17.0-137*		*06/20/2017 11:03*	WG990189
(S) p-Terphenyl-d14	*69.0*			*13.0-131*		*06/20/2017 11:03*	WG990189

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	95.2		1	06/19/2017 08:55	WG990405

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	0.0142	J	0.0105	0.0525	1	06/20/2017 13:53	WG990989
Acrylonitrile	U		0.00188	0.0105	1	06/20/2017 13:53	WG990989
Benzene	0.00223		0.000284	0.00105	1	06/20/2017 13:53	WG990989
Bromobenzene	U		0.000298	0.00105	1	06/20/2017 13:53	WG990989
Bromodichloromethane	U		0.000267	0.00105	1	06/20/2017 13:53	WG990989
Bromoform	U		0.000445	0.00105	1	06/20/2017 13:53	WG990989
Bromomethane	U		0.00141	0.00525	1	06/20/2017 13:53	WG990989
n-Butylbenzene	U		0.000271	0.00105	1	06/20/2017 13:53	WG990989
sec-Butylbenzene	U		0.000211	0.00105	1	06/20/2017 13:53	WG990989
tert-Butylbenzene	U		0.000216	0.00105	1	06/20/2017 13:53	WG990989
Carbon tetrachloride	U		0.000344	0.00105	1	06/20/2017 13:53	WG990989
Chlorobenzene	U		0.000223	0.00105	1	06/20/2017 13:53	WG990989
Chlorodibromomethane	U		0.000392	0.00105	1	06/20/2017 13:53	WG990989
Chloroethane	U		0.000993	0.00525	1	06/20/2017 13:53	WG990989
Chloroform	U		0.000240	0.00525	1	06/20/2017 13:53	WG990989
Chloromethane	U		0.000394	0.00263	1	06/20/2017 13:53	WG990989
2-Chlorotoluene	U		0.000316	0.00105	1	06/20/2017 13:53	WG990989
4-Chlorotoluene	U		0.000252	0.00105	1	06/20/2017 13:53	WG990989
1,2-Dibromo-3-Chloropropane	U		0.00110	0.00525	1	06/20/2017 13:53	WG990989
1,2-Dibromoethane	U		0.000360	0.00105	1	06/20/2017 13:53	WG990989
Dibromomethane	U		0.000401	0.00105	1	06/20/2017 13:53	WG990989
1,2-Dichlorobenzene	U		0.000320	0.00105	1	06/20/2017 13:53	WG990989
1,3-Dichlorobenzene	U		0.000251	0.00105	1	06/20/2017 13:53	WG990989
1,4-Dichlorobenzene	U		0.000237	0.00105	1	06/20/2017 13:53	WG990989
Dichlorodifluoromethane	U		0.000749	0.00525	1	06/20/2017 13:53	WG990989
1,1-Dichloroethane	U		0.000209	0.00105	1	06/20/2017 13:53	WG990989
1,2-Dichloroethane	U		0.000278	0.00105	1	06/20/2017 13:53	WG990989
1,1-Dichloroethene	U		0.000318	0.00105	1	06/20/2017 13:53	WG990989
cis-1,2-Dichloroethene	U	J4	0.000247	0.00105	1	06/20/2017 13:53	WG990989
trans-1,2-Dichloroethene	U	J4	0.000277	0.00105	1	06/20/2017 13:53	WG990989
1,2-Dichloropropane	U		0.000376	0.00105	1	06/20/2017 13:53	WG990989
1,1-Dichloropropene	U		0.000333	0.00105	1	06/20/2017 13:53	WG990989
1,3-Dichloropropane	U		0.000217	0.00105	1	06/20/2017 13:53	WG990989
cis-1,3-Dichloropropene	U		0.000275	0.00105	1	06/20/2017 13:53	WG990989
trans-1,3-Dichloropropene	U		0.000280	0.00105	1	06/20/2017 13:53	WG990989
2,2-Dichloropropane	U		0.000293	0.00105	1	06/20/2017 13:53	WG990989
Di-isopropyl ether	U		0.000260	0.00105	1	06/20/2017 13:53	WG990989
Ethylbenzene	U		0.000312	0.00105	1	06/20/2017 13:53	WG990989
Hexachloro-1,3-butadiene	U		0.000359	0.00105	1	06/20/2017 13:53	WG990989
Isopropylbenzene	U		0.000255	0.00105	1	06/20/2017 13:53	WG990989
p-Isopropyltoluene	U		0.000214	0.00105	1	06/20/2017 13:53	WG990989
2-Butanone (MEK)	U	J0	0.00491	0.0105	1	06/20/2017 13:53	WG990989
Methylene Chloride	U		0.00105	0.00525	1	06/20/2017 13:53	WG990989
4-Methyl-2-pentanone (MIBK)	U		0.00197	0.0105	1	06/20/2017 13:53	WG990989
Methyl tert-butyl ether	U		0.000223	0.00105	1	06/20/2017 13:53	WG990989
Naphthalene	U		0.00105	0.00525	1	06/20/2017 13:53	WG990989
n-Propylbenzene	U		0.000216	0.00105	1	06/20/2017 13:53	WG990989
Styrene	U		0.000246	0.00105	1	06/20/2017 13:53	WG990989
1,1,1,2-Tetrachloroethane	U		0.000277	0.00105	1	06/20/2017 13:53	WG990989
1,1,2,2-Tetrachloroethane	U		0.000383	0.00105	1	06/20/2017 13:53	WG990989

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.000383	0.00105	1	06/20/2017 13:53	WG990989
Tetrachloroethene	U		0.000290	0.00105	1	06/20/2017 13:53	WG990989
Toluene	0.00340	J	0.000456	0.00525	1	06/20/2017 13:53	WG990989
1,2,3-Trichlorobenzene	U		0.000321	0.00105	1	06/20/2017 13:53	WG990989
1,2,4-Trichlorobenzene	U		0.000407	0.00105	1	06/20/2017 13:53	WG990989
1,1,1-Trichloroethane	U		0.000300	0.00105	1	06/20/2017 13:53	WG990989
1,1,2-Trichloroethane	U		0.000291	0.00105	1	06/20/2017 13:53	WG990989
Trichloroethene	U		0.000293	0.00105	1	06/20/2017 13:53	WG990989
Trichlorofluoromethane	U		0.000401	0.00525	1	06/20/2017 13:53	WG990989
1,2,3-Trichloropropane	U		0.000778	0.00263	1	06/20/2017 13:53	WG990989
1,2,4-Trimethylbenzene	0.000599	J	0.000222	0.00105	1	06/20/2017 13:53	WG990989
1,2,3-Trimethylbenzene	U		0.000301	0.00105	1	06/20/2017 13:53	WG990989
Vinyl chloride	U		0.000306	0.00105	1	06/20/2017 13:53	WG990989
1,3,5-Trimethylbenzene	0.000371	J	0.000279	0.00105	1	06/20/2017 13:53	WG990989
Xylenes, Total	0.00259	J	0.000733	0.00315	1	06/20/2017 13:53	WG990989
(S) Toluene-d8	*103*			*80.0-120*		*06/20/2017 13:53*	WG990989
(S) Dibromofluoromethane	*124*			*74.0-131*		*06/20/2017 13:53*	WG990989
(S) 4-Bromofluorobenzene	*92.9*			*64.0-132*		*06/20/2017 13:53*	WG990989

Semi Volatile Organic Compounds (GC/MS) by Method 8270D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	U		0.00674	0.0347	1	06/20/2017 11:28	WG990189
Acenaphthylene	U		0.00705	0.0347	1	06/20/2017 11:28	WG990189
Anthracene	U		0.00664	0.0347	1	06/20/2017 11:28	WG990189
Benzidine	U	J4	0.0669	0.350	1	06/20/2017 11:28	WG990189
Benzo(a)anthracene	U		0.00449	0.0347	1	06/20/2017 11:28	WG990189
Benzo(b)fluoranthene	U		0.00730	0.0347	1	06/20/2017 11:28	WG990189
Benzo(k)fluoranthene	U		0.00611	0.0347	1	06/20/2017 11:28	WG990189
Benzo(g,h,i)perylene	U		0.00757	0.0347	1	06/20/2017 11:28	WG990189
Benzo(a)pyrene	U		0.00575	0.0347	1	06/20/2017 11:28	WG990189
Bis(2-chlorethoxy)methane	U		0.00809	0.350	1	06/20/2017 11:28	WG990189
Bis(2-chloroethyl)ether	U		0.00941	0.350	1	06/20/2017 11:28	WG990189
Bis(2-chloroisopropyl)ether	U		0.00798	0.350	1	06/20/2017 11:28	WG990189
4-Bromophenyl-phenylether	U		0.0120	0.350	1	06/20/2017 11:28	WG990189
2-Chloronaphthalene	U		0.00671	0.0347	1	06/20/2017 11:28	WG990189
4-Chlorophenyl-phenylether	U		0.00658	0.350	1	06/20/2017 11:28	WG990189
Chrysene	U		0.00583	0.0347	1	06/20/2017 11:28	WG990189
Dibenz(a,h)anthracene	U		0.00862	0.0347	1	06/20/2017 11:28	WG990189
3,3-Dichlorobenzidine	U	J4	0.0834	0.350	1	06/20/2017 11:28	WG990189
2,4-Dinitrotoluene	U		0.00637	0.350	1	06/20/2017 11:28	WG990189
2,6-Dinitrotoluene	U		0.00774	0.350	1	06/20/2017 11:28	WG990189
Fluoranthene	U		0.00521	0.0347	1	06/20/2017 11:28	WG990189
Fluorene	U		0.00716	0.0347	1	06/20/2017 11:28	WG990189
Hexachlorobenzene	U		0.00899	0.350	1	06/20/2017 11:28	WG990189
Hexachloro-1,3-butadiene	U		0.0105	0.350	1	06/20/2017 11:28	WG990189
Hexachlorocyclopentadiene	U		0.0616	0.350	1	06/20/2017 11:28	WG990189
Hexachloroethane	U		0.0141	0.350	1	06/20/2017 11:28	WG990189
Indeno(1,2,3-cd)pyrene	U		0.00811	0.0347	1	06/20/2017 11:28	WG990189
Isophorone	U		0.00548	0.350	1	06/20/2017 11:28	WG990189
Naphthalene	U		0.00933	0.0347	1	06/20/2017 11:28	WG990189
Nitrobenzene	U		0.00730	0.350	1	06/20/2017 11:28	WG990189
n-Nitrosodimethylamine	U		0.0679	0.350	1	06/20/2017 11:28	WG990189
n-Nitrosodiphenylamine	U		0.00624	0.350	1	06/20/2017 11:28	WG990189
n-Nitrosodi-n-propylamine	U		0.00951	0.350	1	06/20/2017 11:28	WG990189
Phenanthrene	U		0.00554	0.0347	1	06/20/2017 11:28	WG990189

Semi Volatile Organic Compounds (GC/MS) by Method 8270D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzylbutyl phthalate	U		0.0108	0.350	1	06/20/2017 11:28	WG990189
Bis(2-ethylhexyl)phthalate	U		0.0126	0.350	1	06/20/2017 11:28	WG990189
Di-n-butyl phthalate	U		0.0114	0.350	1	06/20/2017 11:28	WG990189
Diethyl phthalate	U		0.00726	0.350	1	06/20/2017 11:28	WG990189
Dimethyl phthalate	U		0.00567	0.350	1	06/20/2017 11:28	WG990189
Di-n-octyl phthalate	U		0.00952	0.350	1	06/20/2017 11:28	WG990189
Pyrene	U		0.0129	0.0347	1	06/20/2017 11:28	WG990189
1,2,4-Trichlorobenzene	U		0.00920	0.350	1	06/20/2017 11:28	WG990189
4-Chloro-3-methylphenol	U		0.00501	0.350	1	06/20/2017 11:28	WG990189
2-Chlorophenol	U		0.00873	0.350	1	06/20/2017 11:28	WG990189
2,4-Dichlorophenol	U		0.00783	0.350	1	06/20/2017 11:28	WG990189
2,4-Dimethylphenol	U		0.0495	0.350	1	06/20/2017 11:28	WG990189
4,6-Dinitro-2-methylphenol	U		0.130	0.350	1	06/20/2017 11:28	WG990189
2,4-Dinitrophenol	U	J3	0.103	0.350	1	06/20/2017 11:28	WG990189
2-Nitrophenol	U		0.0137	0.350	1	06/20/2017 11:28	WG990189
4-Nitrophenol	U		0.0551	0.350	1	06/20/2017 11:28	WG990189
Pentachlorophenol	U		0.0504	0.350	1	06/20/2017 11:28	WG990189
Phenol	U		0.00730	0.350	1	06/20/2017 11:28	WG990189
2,4,6-Trichlorophenol	U		0.00818	0.350	1	06/20/2017 11:28	WG990189
(S) 2-Fluorophenol	*53.8*			*20.0-120*		*06/20/2017 11:28*	WG990189
(S) Phenol-d5	*59.2*			*20.0-120*		*06/20/2017 11:28*	WG990189
(S) Nitrobenzene-d5	*57.2*			*18.0-125*		*06/20/2017 11:28*	WG990189
(S) 2-Fluorobiphenyl	*64.6*			*28.0-120*		*06/20/2017 11:28*	WG990189
(S) 2,4,6-Tribromophenol	*71.8*			*17.0-137*		*06/20/2017 11:28*	WG990189
(S) p-Terphenyl-d14	*66.6*			*13.0-131*		*06/20/2017 11:28*	WG990189

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	95.8		1	06/19/2017 08:55	WG990405

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	0.0177	J	0.0104	0.0522	1	06/20/2017 14:16	WG990989
Acrylonitrile	U		0.00187	0.0104	1	06/20/2017 14:16	WG990989
Benzene	0.00209		0.000282	0.00104	1	06/20/2017 14:16	WG990989
Bromobenzene	U		0.000297	0.00104	1	06/20/2017 14:16	WG990989
Bromodichloromethane	U		0.000265	0.00104	1	06/20/2017 14:16	WG990989
Bromoform	U		0.000443	0.00104	1	06/20/2017 14:16	WG990989
Bromomethane	U		0.00140	0.00522	1	06/20/2017 14:16	WG990989
n-Butylbenzene	U		0.000269	0.00104	1	06/20/2017 14:16	WG990989
sec-Butylbenzene	U		0.000210	0.00104	1	06/20/2017 14:16	WG990989
tert-Butylbenzene	U		0.000215	0.00104	1	06/20/2017 14:16	WG990989
Carbon tetrachloride	U		0.000342	0.00104	1	06/20/2017 14:16	WG990989
Chlorobenzene	U		0.000221	0.00104	1	06/20/2017 14:16	WG990989
Chlorodibromomethane	U		0.000389	0.00104	1	06/20/2017 14:16	WG990989
Chloroethane	U		0.000988	0.00522	1	06/20/2017 14:16	WG990989
Chloroform	U		0.000239	0.00522	1	06/20/2017 14:16	WG990989
Chloromethane	U		0.000392	0.00261	1	06/20/2017 14:16	WG990989
2-Chlorotoluene	U		0.000314	0.00104	1	06/20/2017 14:16	WG990989
4-Chlorotoluene	U		0.000251	0.00104	1	06/20/2017 14:16	WG990989
1,2-Dibromo-3-Chloropropane	U		0.00110	0.00522	1	06/20/2017 14:16	WG990989
1,2-Dibromoethane	U		0.000358	0.00104	1	06/20/2017 14:16	WG990989
Dibromomethane	U		0.000399	0.00104	1	06/20/2017 14:16	WG990989
1,2-Dichlorobenzene	U		0.000318	0.00104	1	06/20/2017 14:16	WG990989
1,3-Dichlorobenzene	U		0.000250	0.00104	1	06/20/2017 14:16	WG990989
1,4-Dichlorobenzene	U		0.000236	0.00104	1	06/20/2017 14:16	WG990989
Dichlorodifluoromethane	U		0.000744	0.00522	1	06/20/2017 14:16	WG990989
1,1-Dichloroethane	U		0.000208	0.00104	1	06/20/2017 14:16	WG990989
1,2-Dichloroethane	U		0.000277	0.00104	1	06/20/2017 14:16	WG990989
1,1-Dichloroethene	U		0.000316	0.00104	1	06/20/2017 14:16	WG990989
cis-1,2-Dichloroethene	U	J4	0.000245	0.00104	1	06/20/2017 14:16	WG990989
trans-1,2-Dichloroethene	U	J4	0.000276	0.00104	1	06/20/2017 14:16	WG990989
1,2-Dichloropropane	U		0.000374	0.00104	1	06/20/2017 14:16	WG990989
1,1-Dichloropropene	U		0.000331	0.00104	1	06/20/2017 14:16	WG990989
1,3-Dichloropropane	U		0.000216	0.00104	1	06/20/2017 14:16	WG990989
cis-1,3-Dichloropropene	U		0.000274	0.00104	1	06/20/2017 14:16	WG990989
trans-1,3-Dichloropropene	U		0.000279	0.00104	1	06/20/2017 14:16	WG990989
2,2-Dichloropropane	U		0.000291	0.00104	1	06/20/2017 14:16	WG990989
Di-isopropyl ether	U		0.000259	0.00104	1	06/20/2017 14:16	WG990989
Ethylbenzene	U		0.000310	0.00104	1	06/20/2017 14:16	WG990989
Hexachloro-1,3-butadiene	U		0.000357	0.00104	1	06/20/2017 14:16	WG990989
Isopropylbenzene	U		0.000254	0.00104	1	06/20/2017 14:16	WG990989
p-Isopropyltoluene	U		0.000213	0.00104	1	06/20/2017 14:16	WG990989
2-Butanone (MEK)	U	J0	0.00489	0.0104	1	06/20/2017 14:16	WG990989
Methylene Chloride	U		0.00104	0.00522	1	06/20/2017 14:16	WG990989
4-Methyl-2-pentanone (MIBK)	U		0.00196	0.0104	1	06/20/2017 14:16	WG990989
Methyl tert-butyl ether	U		0.000221	0.00104	1	06/20/2017 14:16	WG990989
Naphthalene	U		0.00104	0.00522	1	06/20/2017 14:16	WG990989
n-Propylbenzene	U		0.000215	0.00104	1	06/20/2017 14:16	WG990989
Styrene	U		0.000244	0.00104	1	06/20/2017 14:16	WG990989
1,1,1,2-Tetrachloroethane	U		0.000276	0.00104	1	06/20/2017 14:16	WG990989
1,1,2,2-Tetrachloroethane	U		0.000381	0.00104	1	06/20/2017 14:16	WG990989

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.000381	0.00104	1	06/20/2017 14:16	WG990989
Tetrachloroethene	U		0.000288	0.00104	1	06/20/2017 14:16	WG990989
Toluene	0.00337	J	0.000453	0.00522	1	06/20/2017 14:16	WG990989
1,2,3-Trichlorobenzene	U		0.000319	0.00104	1	06/20/2017 14:16	WG990989
1,2,4-Trichlorobenzene	U		0.000405	0.00104	1	06/20/2017 14:16	WG990989
1,1,1-Trichloroethane	U		0.000299	0.00104	1	06/20/2017 14:16	WG990989
1,1,2-Trichloroethane	U		0.000289	0.00104	1	06/20/2017 14:16	WG990989
Trichloroethene	U		0.000291	0.00104	1	06/20/2017 14:16	WG990989
Trichlorofluoromethane	U		0.000399	0.00522	1	06/20/2017 14:16	WG990989
1,2,3-Trichloropropane	U		0.000774	0.00261	1	06/20/2017 14:16	WG990989
1,2,4-Trimethylbenzene	0.000585	J	0.000220	0.00104	1	06/20/2017 14:16	WG990989
1,2,3-Trimethylbenzene	U		0.000300	0.00104	1	06/20/2017 14:16	WG990989
Vinyl chloride	U		0.000304	0.00104	1	06/20/2017 14:16	WG990989
1,3,5-Trimethylbenzene	0.000408	J	0.000278	0.00104	1	06/20/2017 14:16	WG990989
Xylenes, Total	0.00259	J	0.000729	0.00313	1	06/20/2017 14:16	WG990989
(S) Toluene-d8	*102*			*80.0-120*		*06/20/2017 14:16*	WG990989
(S) Dibromofluoromethane	*124*			*74.0-131*		*06/20/2017 14:16*	WG990989
(S) 4-Bromofluorobenzene	*91.0*			*64.0-132*		*06/20/2017 14:16*	WG990989

Semi Volatile Organic Compounds (GC/MS) by Method 8270D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	U		0.00670	0.0345	1	06/20/2017 11:54	WG990189
Acenaphthylene	U		0.00701	0.0345	1	06/20/2017 11:54	WG990189
Anthracene	U		0.00660	0.0345	1	06/20/2017 11:54	WG990189
Benzidine	U	J4	0.0665	0.348	1	06/20/2017 11:54	WG990189
Benzo(a)anthracene	U		0.00447	0.0345	1	06/20/2017 11:54	WG990189
Benzo(b)fluoranthene	U		0.00726	0.0345	1	06/20/2017 11:54	WG990189
Benzo(k)fluoranthene	U		0.00608	0.0345	1	06/20/2017 11:54	WG990189
Benzo(g,h,i)perylene	U		0.00753	0.0345	1	06/20/2017 11:54	WG990189
Benzo(a)pyrene	U		0.00572	0.0345	1	06/20/2017 11:54	WG990189
Bis(2-chlorethoxy)methane	U		0.00804	0.348	1	06/20/2017 11:54	WG990189
Bis(2-chloroethyl)ether	U		0.00935	0.348	1	06/20/2017 11:54	WG990189
Bis(2-chloroisopropyl)ether	U		0.00793	0.348	1	06/20/2017 11:54	WG990189
4-Bromophenyl-phenylether	U		0.0119	0.348	1	06/20/2017 11:54	WG990189
2-Chloronaphthalene	U		0.00667	0.0345	1	06/20/2017 11:54	WG990189
4-Chlorophenyl-phenylether	U		0.00655	0.348	1	06/20/2017 11:54	WG990189
Chrysene	U		0.00579	0.0345	1	06/20/2017 11:54	WG990189
Dibenz(a,h)anthracene	U		0.00857	0.0345	1	06/20/2017 11:54	WG990189
3,3-Dichlorobenzidine	U	J4	0.0829	0.348	1	06/20/2017 11:54	WG990189
2,4-Dinitrotoluene	U		0.00634	0.348	1	06/20/2017 11:54	WG990189
2,6-Dinitrotoluene	U		0.00769	0.348	1	06/20/2017 11:54	WG990189
Fluoranthene	U		0.00518	0.0345	1	06/20/2017 11:54	WG990189
Fluorene	U		0.00712	0.0345	1	06/20/2017 11:54	WG990189
Hexachlorobenzene	U		0.00894	0.348	1	06/20/2017 11:54	WG990189
Hexachloro-1,3-butadiene	U		0.0104	0.348	1	06/20/2017 11:54	WG990189
Hexachlorocyclopentadiene	U		0.0613	0.348	1	06/20/2017 11:54	WG990189
Hexachloroethane	U		0.0140	0.348	1	06/20/2017 11:54	WG990189
Indeno(1,2,3-cd)pyrene	U		0.00806	0.0345	1	06/20/2017 11:54	WG990189
Isophorone	U		0.00545	0.348	1	06/20/2017 11:54	WG990189
Naphthalene	U		0.00928	0.0345	1	06/20/2017 11:54	WG990189
Nitrobenzene	U		0.00726	0.348	1	06/20/2017 11:54	WG990189
n-Nitrosodimethylamine	U		0.0676	0.348	1	06/20/2017 11:54	WG990189
n-Nitrosodiphenylamine	U		0.00620	0.348	1	06/20/2017 11:54	WG990189
n-Nitrosodi-n-propylamine	U		0.00946	0.348	1	06/20/2017 11:54	WG990189
Phenanthrene	U		0.00551	0.0345	1	06/20/2017 11:54	WG990189

Semi Volatile Organic Compounds (GC/MS) by Method 8270D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzylbutyl phthalate	U		0.0108	0.348	1	06/20/2017 11:54	WG990189
Bis(2-ethylhexyl)phthalate	U		0.0125	0.348	1	06/20/2017 11:54	WG990189
Di-n-butyl phthalate	U		0.0114	0.348	1	06/20/2017 11:54	WG990189
Diethyl phthalate	U		0.00721	0.348	1	06/20/2017 11:54	WG990189
Dimethyl phthalate	U		0.00564	0.348	1	06/20/2017 11:54	WG990189
Di-n-octyl phthalate	U		0.00947	0.348	1	06/20/2017 11:54	WG990189
Pyrene	U		0.0128	0.0345	1	06/20/2017 11:54	WG990189
1,2,4-Trichlorobenzene	U		0.00915	0.348	1	06/20/2017 11:54	WG990189
4-Chloro-3-methylphenol	U		0.00498	0.348	1	06/20/2017 11:54	WG990189
2-Chlorophenol	U		0.00868	0.348	1	06/20/2017 11:54	WG990189
2,4-Dichlorophenol	U		0.00779	0.348	1	06/20/2017 11:54	WG990189
2,4-Dimethylphenol	U		0.0492	0.348	1	06/20/2017 11:54	WG990189
4,6-Dinitro-2-methylphenol	U		0.129	0.348	1	06/20/2017 11:54	WG990189
2,4-Dinitrophenol	U	J3	0.102	0.348	1	06/20/2017 11:54	WG990189
2-Nitrophenol	U		0.0136	0.348	1	06/20/2017 11:54	WG990189
4-Nitrophenol	U		0.0548	0.348	1	06/20/2017 11:54	WG990189
Pentachlorophenol	U		0.0501	0.348	1	06/20/2017 11:54	WG990189
Phenol	U		0.00726	0.348	1	06/20/2017 11:54	WG990189
2,4,6-Trichlorophenol	U		0.00813	0.348	1	06/20/2017 11:54	WG990189
(S) 2-Fluorophenol	*67.7*			*20.0-120*		*06/20/2017 11:54*	WG990189
(S) Phenol-d5	*68.5*			*20.0-120*		*06/20/2017 11:54*	WG990189
(S) Nitrobenzene-d5	*65.2*			*18.0-125*		*06/20/2017 11:54*	WG990189
(S) 2-Fluorobiphenyl	*64.9*			*28.0-120*		*06/20/2017 11:54*	WG990189
(S) 2,4,6-Tribromophenol	*85.7*			*17.0-137*		*06/20/2017 11:54*	WG990189
(S) p-Terphenyl-d14	*67.5*			*13.0-131*		*06/20/2017 11:54*	WG990189

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	94.4		1	06/19/2017 08:55	WG990405

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	0.0236	J	0.0106	0.0530	1	06/20/2017 14:38	WG990989
Acrylonitrile	U		0.00190	0.0106	1	06/20/2017 14:38	WG990989
Benzene	0.00231		0.000286	0.00106	1	06/20/2017 14:38	WG990989
Bromobenzene	U		0.000301	0.00106	1	06/20/2017 14:38	WG990989
Bromodichloromethane	U		0.000269	0.00106	1	06/20/2017 14:38	WG990989
Bromoform	U		0.000449	0.00106	1	06/20/2017 14:38	WG990989
Bromomethane	U		0.00142	0.00530	1	06/20/2017 14:38	WG990989
n-Butylbenzene	U		0.000273	0.00106	1	06/20/2017 14:38	WG990989
sec-Butylbenzene	U		0.000213	0.00106	1	06/20/2017 14:38	WG990989
tert-Butylbenzene	U		0.000218	0.00106	1	06/20/2017 14:38	WG990989
Carbon tetrachloride	U		0.000347	0.00106	1	06/20/2017 14:38	WG990989
Chlorobenzene	U		0.000225	0.00106	1	06/20/2017 14:38	WG990989
Chlorodibromomethane	U		0.000395	0.00106	1	06/20/2017 14:38	WG990989
Chloroethane	U		0.00100	0.00530	1	06/20/2017 14:38	WG990989
Chloroform	U		0.000243	0.00530	1	06/20/2017 14:38	WG990989
Chloromethane	U		0.000397	0.00265	1	06/20/2017 14:38	WG990989
2-Chlorotoluene	U		0.000319	0.00106	1	06/20/2017 14:38	WG990989
4-Chlorotoluene	U		0.000254	0.00106	1	06/20/2017 14:38	WG990989
1,2-Dibromo-3-Chloropropane	U		0.00111	0.00530	1	06/20/2017 14:38	WG990989
1,2-Dibromoethane	U		0.000363	0.00106	1	06/20/2017 14:38	WG990989
Dibromomethane	U		0.000405	0.00106	1	06/20/2017 14:38	WG990989
1,2-Dichlorobenzene	U		0.000323	0.00106	1	06/20/2017 14:38	WG990989
1,3-Dichlorobenzene	U		0.000253	0.00106	1	06/20/2017 14:38	WG990989
1,4-Dichlorobenzene	U		0.000239	0.00106	1	06/20/2017 14:38	WG990989
Dichlorodifluoromethane	U		0.000755	0.00530	1	06/20/2017 14:38	WG990989
1,1-Dichloroethane	U		0.000211	0.00106	1	06/20/2017 14:38	WG990989
1,2-Dichloroethane	U		0.000281	0.00106	1	06/20/2017 14:38	WG990989
1,1-Dichloroethene	U		0.000321	0.00106	1	06/20/2017 14:38	WG990989
cis-1,2-Dichloroethene	U	J4	0.000249	0.00106	1	06/20/2017 14:38	WG990989
trans-1,2-Dichloroethene	U	J4	0.000280	0.00106	1	06/20/2017 14:38	WG990989
1,2-Dichloropropane	U		0.000379	0.00106	1	06/20/2017 14:38	WG990989
1,1-Dichloropropene	U		0.000336	0.00106	1	06/20/2017 14:38	WG990989
1,3-Dichloropropane	U		0.000219	0.00106	1	06/20/2017 14:38	WG990989
cis-1,3-Dichloropropene	U		0.000278	0.00106	1	06/20/2017 14:38	WG990989
trans-1,3-Dichloropropene	U		0.000283	0.00106	1	06/20/2017 14:38	WG990989
2,2-Dichloropropane	U		0.000296	0.00106	1	06/20/2017 14:38	WG990989
Di-isopropyl ether	U		0.000263	0.00106	1	06/20/2017 14:38	WG990989
Ethylbenzene	U		0.000315	0.00106	1	06/20/2017 14:38	WG990989
Hexachloro-1,3-butadiene	U		0.000362	0.00106	1	06/20/2017 14:38	WG990989
Isopropylbenzene	U		0.000257	0.00106	1	06/20/2017 14:38	WG990989
p-Isopropyltoluene	U		0.000216	0.00106	1	06/20/2017 14:38	WG990989
2-Butanone (MEK)	U	J0	0.00496	0.0106	1	06/20/2017 14:38	WG990989
Methylene Chloride	U		0.00106	0.00530	1	06/20/2017 14:38	WG990989
4-Methyl-2-pentanone (MIBK)	U		0.00199	0.0106	1	06/20/2017 14:38	WG990989
Methyl tert-butyl ether	U		0.000225	0.00106	1	06/20/2017 14:38	WG990989
Naphthalene	U		0.00106	0.00530	1	06/20/2017 14:38	WG990989
n-Propylbenzene	U		0.000218	0.00106	1	06/20/2017 14:38	WG990989
Styrene	U		0.000248	0.00106	1	06/20/2017 14:38	WG990989
1,1,1,2-Tetrachloroethane	U		0.000280	0.00106	1	06/20/2017 14:38	WG990989
1,1,2,2-Tetrachloroethane	U		0.000387	0.00106	1	06/20/2017 14:38	WG990989

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.000387	0.00106	1	06/20/2017 14:38	WG990989
Tetrachloroethene	U		0.000292	0.00106	1	06/20/2017 14:38	WG990989
Toluene	0.00402	J	0.000460	0.00530	1	06/20/2017 14:38	WG990989
1,2,3-Trichlorobenzene	U		0.000324	0.00106	1	06/20/2017 14:38	WG990989
1,2,4-Trichlorobenzene	U		0.000411	0.00106	1	06/20/2017 14:38	WG990989
1,1,1-Trichloroethane	U		0.000303	0.00106	1	06/20/2017 14:38	WG990989
1,1,2-Trichloroethane	U		0.000293	0.00106	1	06/20/2017 14:38	WG990989
Trichloroethene	U		0.000296	0.00106	1	06/20/2017 14:38	WG990989
Trichlorofluoromethane	U		0.000405	0.00530	1	06/20/2017 14:38	WG990989
1,2,3-Trichloropropane	U		0.000785	0.00265	1	06/20/2017 14:38	WG990989
1,2,4-Trimethylbenzene	0.000787	J	0.000224	0.00106	1	06/20/2017 14:38	WG990989
1,2,3-Trimethylbenzene	U		0.000304	0.00106	1	06/20/2017 14:38	WG990989
Vinyl chloride	U		0.000308	0.00106	1	06/20/2017 14:38	WG990989
1,3,5-Trimethylbenzene	0.000490	J	0.000282	0.00106	1	06/20/2017 14:38	WG990989
Xylenes, Total	0.00329		0.000739	0.00318	1	06/20/2017 14:38	WG990989
(S) Toluene-d8	*104*			*80.0-120*		*06/20/2017 14:38*	WG990989
(S) Dibromofluoromethane	*123*			*74.0-131*		*06/20/2017 14:38*	WG990989
(S) 4-Bromofluorobenzene	*92.3*			*64.0-132*		*06/20/2017 14:38*	WG990989

Semi Volatile Organic Compounds (GC/MS) by Method 8270D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	U		0.00680	0.0350	1	06/20/2017 12:19	WG990189
Acenaphthylene	U		0.00711	0.0350	1	06/20/2017 12:19	WG990189
Anthracene	U		0.00669	0.0350	1	06/20/2017 12:19	WG990189
Benzidine	U	J4	0.0675	0.353	1	06/20/2017 12:19	WG990189
Benzo(a)anthracene	U		0.00453	0.0350	1	06/20/2017 12:19	WG990189
Benzo(b)fluoranthene	U		0.00736	0.0350	1	06/20/2017 12:19	WG990189
Benzo(k)fluoranthene	U		0.00617	0.0350	1	06/20/2017 12:19	WG990189
Benzo(g,h,i)perylene	U		0.00764	0.0350	1	06/20/2017 12:19	WG990189
Benzo(a)pyrene	U		0.00581	0.0350	1	06/20/2017 12:19	WG990189
Bis(2-chlorethoxy)methane	U		0.00816	0.353	1	06/20/2017 12:19	WG990189
Bis(2-chloroethyl)ether	U		0.00949	0.353	1	06/20/2017 12:19	WG990189
Bis(2-chloroisopropyl)ether	U		0.00805	0.353	1	06/20/2017 12:19	WG990189
4-Bromophenyl-phenylether	U		0.0121	0.353	1	06/20/2017 12:19	WG990189
2-Chloronaphthalene	U		0.00677	0.0350	1	06/20/2017 12:19	WG990189
4-Chlorophenyl-phenylether	U		0.00664	0.353	1	06/20/2017 12:19	WG990189
Chrysene	U		0.00588	0.0350	1	06/20/2017 12:19	WG990189
Dibenz(a,h)anthracene	U		0.00870	0.0350	1	06/20/2017 12:19	WG990189
3,3-Dichlorobenzidine	U	J4	0.0841	0.353	1	06/20/2017 12:19	WG990189
2,4-Dinitrotoluene	U		0.00643	0.353	1	06/20/2017 12:19	WG990189
2,6-Dinitrotoluene	U		0.00781	0.353	1	06/20/2017 12:19	WG990189
Fluoranthene	U		0.00525	0.0350	1	06/20/2017 12:19	WG990189
Fluorene	U		0.00722	0.0350	1	06/20/2017 12:19	WG990189
Hexachlorobenzene	U		0.00907	0.353	1	06/20/2017 12:19	WG990189
Hexachloro-1,3-butadiene	U		0.0106	0.353	1	06/20/2017 12:19	WG990189
Hexachlorocyclopentadiene	U		0.0622	0.353	1	06/20/2017 12:19	WG990189
Hexachloroethane	U		0.0142	0.353	1	06/20/2017 12:19	WG990189
Indeno(1,2,3-cd)pyrene	U		0.00818	0.0350	1	06/20/2017 12:19	WG990189
Isophorone	U		0.00553	0.353	1	06/20/2017 12:19	WG990189
Naphthalene	U		0.00942	0.0350	1	06/20/2017 12:19	WG990189
Nitrobenzene	U		0.00736	0.353	1	06/20/2017 12:19	WG990189
n-Nitrosodimethylamine	U		0.0685	0.353	1	06/20/2017 12:19	WG990189
n-Nitrosodiphenylamine	U		0.00629	0.353	1	06/20/2017 12:19	WG990189
n-Nitrosodi-n-propylamine	U		0.00960	0.353	1	06/20/2017 12:19	WG990189
Phenanthrene	U		0.00559	0.0350	1	06/20/2017 12:19	WG990189

Semi Volatile Organic Compounds (GC/MS) by Method 8270D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzylbutyl phthalate	U		0.0109	0.353	1	06/20/2017 12:19	WG990189
Bis(2-ethylhexyl)phthalate	U		0.0127	0.353	1	06/20/2017 12:19	WG990189
Di-n-butyl phthalate	U		0.0115	0.353	1	06/20/2017 12:19	WG990189
Diethyl phthalate	U		0.00732	0.353	1	06/20/2017 12:19	WG990189
Dimethyl phthalate	U		0.00572	0.353	1	06/20/2017 12:19	WG990189
Di-n-octyl phthalate	U		0.00961	0.353	1	06/20/2017 12:19	WG990189
Pyrene	U		0.0130	0.0350	1	06/20/2017 12:19	WG990189
1,2,4-Trichlorobenzene	U		0.00928	0.353	1	06/20/2017 12:19	WG990189
4-Chloro-3-methylphenol	U		0.00505	0.353	1	06/20/2017 12:19	WG990189
2-Chlorophenol	U		0.00880	0.353	1	06/20/2017 12:19	WG990189
2,4-Dichlorophenol	U		0.00790	0.353	1	06/20/2017 12:19	WG990189
2,4-Dimethylphenol	U		0.0499	0.353	1	06/20/2017 12:19	WG990189
4,6-Dinitro-2-methylphenol	U		0.131	0.353	1	06/20/2017 12:19	WG990189
2,4-Dinitrophenol	U	J3	0.104	0.353	1	06/20/2017 12:19	WG990189
2-Nitrophenol	U		0.0138	0.353	1	06/20/2017 12:19	WG990189
4-Nitrophenol	U		0.0556	0.353	1	06/20/2017 12:19	WG990189
Pentachlorophenol	U		0.0508	0.353	1	06/20/2017 12:19	WG990189
Phenol	U		0.00736	0.353	1	06/20/2017 12:19	WG990189
2,4,6-Trichlorophenol	U		0.00825	0.353	1	06/20/2017 12:19	WG990189
(S) 2-Fluorophenol	*67.3*			*20.0-120*		*06/20/2017 12:19*	WG990189
(S) Phenol-d5	*66.9*			*20.0-120*		*06/20/2017 12:19*	WG990189
(S) Nitrobenzene-d5	*56.5*			*18.0-125*		*06/20/2017 12:19*	WG990189
(S) 2-Fluorobiphenyl	*71.4*			*28.0-120*		*06/20/2017 12:19*	WG990189
(S) 2,4,6-Tribromophenol	*87.4*			*17.0-137*		*06/20/2017 12:19*	WG990189
(S) p-Terphenyl-d14	*72.6*			*13.0-131*		*06/20/2017 12:19*	WG990189

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	96.0		1	06/19/2017 08:55	WG990405

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	0.0144	J	0.0104	0.0521	1	06/20/2017 15:01	WG990989
Acrylonitrile	U		0.00187	0.0104	1	06/20/2017 15:01	WG990989
Benzene	0.00206		0.000281	0.00104	1	06/20/2017 15:01	WG990989
Bromobenzene	U		0.000296	0.00104	1	06/20/2017 15:01	WG990989
Bromodichloromethane	U		0.000265	0.00104	1	06/20/2017 15:01	WG990989
Bromoform	U		0.000442	0.00104	1	06/20/2017 15:01	WG990989
Bromomethane	U		0.00140	0.00521	1	06/20/2017 15:01	WG990989
n-Butylbenzene	U		0.000269	0.00104	1	06/20/2017 15:01	WG990989
sec-Butylbenzene	U		0.000209	0.00104	1	06/20/2017 15:01	WG990989
tert-Butylbenzene	U		0.000215	0.00104	1	06/20/2017 15:01	WG990989
Carbon tetrachloride	U		0.000342	0.00104	1	06/20/2017 15:01	WG990989
Chlorobenzene	U		0.000221	0.00104	1	06/20/2017 15:01	WG990989
Chlorodibromomethane	U		0.000389	0.00104	1	06/20/2017 15:01	WG990989
Chloroethane	U		0.000986	0.00521	1	06/20/2017 15:01	WG990989
Chloroform	U		0.000239	0.00521	1	06/20/2017 15:01	WG990989
Chloromethane	U		0.000391	0.00260	1	06/20/2017 15:01	WG990989
2-Chlorotoluene	U		0.000314	0.00104	1	06/20/2017 15:01	WG990989
4-Chlorotoluene	U		0.000250	0.00104	1	06/20/2017 15:01	WG990989
1,2-Dibromo-3-Chloropropane	U		0.00109	0.00521	1	06/20/2017 15:01	WG990989
1,2-Dibromoethane	U		0.000357	0.00104	1	06/20/2017 15:01	WG990989
Dibromomethane	U		0.000398	0.00104	1	06/20/2017 15:01	WG990989
1,2-Dichlorobenzene	U		0.000318	0.00104	1	06/20/2017 15:01	WG990989
1,3-Dichlorobenzene	U		0.000249	0.00104	1	06/20/2017 15:01	WG990989
1,4-Dichlorobenzene	U		0.000235	0.00104	1	06/20/2017 15:01	WG990989
Dichlorodifluoromethane	U		0.000743	0.00521	1	06/20/2017 15:01	WG990989
1,1-Dichloroethane	U		0.000207	0.00104	1	06/20/2017 15:01	WG990989
1,2-Dichloroethane	U		0.000276	0.00104	1	06/20/2017 15:01	WG990989
1,1-Dichloroethene	U		0.000316	0.00104	1	06/20/2017 15:01	WG990989
cis-1,2-Dichloroethene	U	J4	0.000245	0.00104	1	06/20/2017 15:01	WG990989
trans-1,2-Dichloroethene	U	J4	0.000275	0.00104	1	06/20/2017 15:01	WG990989
1,2-Dichloropropane	U		0.000373	0.00104	1	06/20/2017 15:01	WG990989
1,1-Dichloropropene	U		0.000330	0.00104	1	06/20/2017 15:01	WG990989
1,3-Dichloropropane	U		0.000216	0.00104	1	06/20/2017 15:01	WG990989
cis-1,3-Dichloropropene	U		0.000273	0.00104	1	06/20/2017 15:01	WG990989
trans-1,3-Dichloropropene	U		0.000278	0.00104	1	06/20/2017 15:01	WG990989
2,2-Dichloropropane	U		0.000291	0.00104	1	06/20/2017 15:01	WG990989
Di-isopropyl ether	U		0.000258	0.00104	1	06/20/2017 15:01	WG990989
Ethylbenzene	U		0.000309	0.00104	1	06/20/2017 15:01	WG990989
Hexachloro-1,3-butadiene	U		0.000356	0.00104	1	06/20/2017 15:01	WG990989
Isopropylbenzene	U		0.000253	0.00104	1	06/20/2017 15:01	WG990989
p-Isopropyltoluene	U		0.000213	0.00104	1	06/20/2017 15:01	WG990989
2-Butanone (MEK)	U	J0	0.00488	0.0104	1	06/20/2017 15:01	WG990989
Methylene Chloride	U		0.00104	0.00521	1	06/20/2017 15:01	WG990989
4-Methyl-2-pentanone (MIBK)	U		0.00196	0.0104	1	06/20/2017 15:01	WG990989
Methyl tert-butyl ether	U		0.000221	0.00104	1	06/20/2017 15:01	WG990989
Naphthalene	U		0.00104	0.00521	1	06/20/2017 15:01	WG990989
n-Propylbenzene	U		0.000215	0.00104	1	06/20/2017 15:01	WG990989
Styrene	U		0.000244	0.00104	1	06/20/2017 15:01	WG990989
1,1,1,2-Tetrachloroethane	U		0.000275	0.00104	1	06/20/2017 15:01	WG990989
1,1,2,2-Tetrachloroethane	U		0.000380	0.00104	1	06/20/2017 15:01	WG990989

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.000380	0.00104	1	06/20/2017 15:01	WG990989
Tetrachloroethene	U		0.000288	0.00104	1	06/20/2017 15:01	WG990989
Toluene	0.00346	J	0.000452	0.00521	1	06/20/2017 15:01	WG990989
1,2,3-Trichlorobenzene	U		0.000319	0.00104	1	06/20/2017 15:01	WG990989
1,2,4-Trichlorobenzene	U		0.000404	0.00104	1	06/20/2017 15:01	WG990989
1,1,1-Trichloroethane	U		0.000298	0.00104	1	06/20/2017 15:01	WG990989
1,1,2-Trichloroethane	U		0.000289	0.00104	1	06/20/2017 15:01	WG990989
Trichloroethene	U		0.000291	0.00104	1	06/20/2017 15:01	WG990989
Trichlorofluoromethane	U		0.000398	0.00521	1	06/20/2017 15:01	WG990989
1,2,3-Trichloropropane	U		0.000772	0.00260	1	06/20/2017 15:01	WG990989
1,2,4-Trimethylbenzene	0.000533	J	0.000220	0.00104	1	06/20/2017 15:01	WG990989
1,2,3-Trimethylbenzene	U		0.000299	0.00104	1	06/20/2017 15:01	WG990989
Vinyl chloride	U		0.000303	0.00104	1	06/20/2017 15:01	WG990989
1,3,5-Trimethylbenzene	0.000381	J	0.000277	0.00104	1	06/20/2017 15:01	WG990989
Xylenes, Total	0.00261	J	0.000727	0.00313	1	06/20/2017 15:01	WG990989
(S) Toluene-d8	*104*			*80.0-120*		*06/20/2017 15:01*	WG990989
(S) Dibromofluoromethane	*124*			*74.0-131*		*06/20/2017 15:01*	WG990989
(S) 4-Bromofluorobenzene	*91.0*			*64.0-132*		*06/20/2017 15:01*	WG990989

Semi Volatile Organic Compounds (GC/MS) by Method 8270D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	U		0.00669	0.0344	1	06/20/2017 12:45	WG990189
Acenaphthylene	U		0.00699	0.0344	1	06/20/2017 12:45	WG990189
Anthracene	U		0.00659	0.0344	1	06/20/2017 12:45	WG990189
Benzidine	U	J4	0.0664	0.347	1	06/20/2017 12:45	WG990189
Benzo(a)anthracene	U		0.00446	0.0344	1	06/20/2017 12:45	WG990189
Benzo(b)fluoranthene	U		0.00724	0.0344	1	06/20/2017 12:45	WG990189
Benzo(k)fluoranthene	U		0.00606	0.0344	1	06/20/2017 12:45	WG990189
Benzo(g,h,i)perylene	U		0.00751	0.0344	1	06/20/2017 12:45	WG990189
Benzo(a)pyrene	U		0.00571	0.0344	1	06/20/2017 12:45	WG990189
Bis(2-chlorethoxy)methane	U		0.00802	0.347	1	06/20/2017 12:45	WG990189
Bis(2-chloroethyl)ether	U		0.00934	0.347	1	06/20/2017 12:45	WG990189
Bis(2-chloroisopropyl)ether	U		0.00792	0.347	1	06/20/2017 12:45	WG990189
4-Bromophenyl-phenylether	U		0.0119	0.347	1	06/20/2017 12:45	WG990189
2-Chloronaphthalene	U		0.00666	0.0344	1	06/20/2017 12:45	WG990189
4-Chlorophenyl-phenylether	U		0.00653	0.347	1	06/20/2017 12:45	WG990189
Chrysene	U		0.00578	0.0344	1	06/20/2017 12:45	WG990189
Dibenz(a,h)anthracene	U		0.00855	0.0344	1	06/20/2017 12:45	WG990189
3,3-Dichlorobenzidine	U	J4	0.0827	0.347	1	06/20/2017 12:45	WG990189
2,4-Dinitrotoluene	U		0.00632	0.347	1	06/20/2017 12:45	WG990189
2,6-Dinitrotoluene	U		0.00768	0.347	1	06/20/2017 12:45	WG990189
Fluoranthene	U		0.00517	0.0344	1	06/20/2017 12:45	WG990189
Fluorene	U		0.00711	0.0344	1	06/20/2017 12:45	WG990189
Hexachlorobenzene	U		0.00892	0.347	1	06/20/2017 12:45	WG990189
Hexachloro-1,3-butadiene	U		0.0104	0.347	1	06/20/2017 12:45	WG990189
Hexachlorocyclopentadiene	U		0.0612	0.347	1	06/20/2017 12:45	WG990189
Hexachloroethane	U		0.0140	0.347	1	06/20/2017 12:45	WG990189
Indeno(1,2,3-cd)pyrene	U		0.00804	0.0344	1	06/20/2017 12:45	WG990189
Isophorone	U		0.00544	0.347	1	06/20/2017 12:45	WG990189
Naphthalene	U		0.00926	0.0344	1	06/20/2017 12:45	WG990189
Nitrobenzene	U		0.00724	0.347	1	06/20/2017 12:45	WG990189
n-Nitrosodimethylamine	U		0.0674	0.347	1	06/20/2017 12:45	WG990189
n-Nitrosodiphenylamine	U		0.00619	0.347	1	06/20/2017 12:45	WG990189
n-Nitrosodi-n-propylamine	U		0.00944	0.347	1	06/20/2017 12:45	WG990189
Phenanthrene	U		0.00550	0.0344	1	06/20/2017 12:45	WG990189

Semi Volatile Organic Compounds (GC/MS) by Method 8270D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzylbutyl phthalate	U		0.0107	0.347	1	06/20/2017 12:45	WG990189
Bis(2-ethylhexyl)phthalate	U		0.0125	0.347	1	06/20/2017 12:45	WG990189
Di-n-butyl phthalate	U		0.0114	0.347	1	06/20/2017 12:45	WG990189
Diethyl phthalate	U		0.00720	0.347	1	06/20/2017 12:45	WG990189
Dimethyl phthalate	U		0.00563	0.347	1	06/20/2017 12:45	WG990189
Di-n-octyl phthalate	U		0.00945	0.347	1	06/20/2017 12:45	WG990189
Pyrene	U		0.0128	0.0344	1	06/20/2017 12:45	WG990189
1,2,4-Trichlorobenzene	U		0.00913	0.347	1	06/20/2017 12:45	WG990189
4-Chloro-3-methylphenol	U		0.00497	0.347	1	06/20/2017 12:45	WG990189
2-Chlorophenol	U		0.00866	0.347	1	06/20/2017 12:45	WG990189
2,4-Dichlorophenol	U		0.00777	0.347	1	06/20/2017 12:45	WG990189
2,4-Dimethylphenol	U		0.0491	0.347	1	06/20/2017 12:45	WG990189
4,6-Dinitro-2-methylphenol	U		0.129	0.347	1	06/20/2017 12:45	WG990189
2,4-Dinitrophenol	U	J3	0.102	0.347	1	06/20/2017 12:45	WG990189
2-Nitrophenol	U		0.0135	0.347	1	06/20/2017 12:45	WG990189
4-Nitrophenol	U		0.0547	0.347	1	06/20/2017 12:45	WG990189
Pentachlorophenol	U		0.0500	0.347	1	06/20/2017 12:45	WG990189
Phenol	U		0.00724	0.347	1	06/20/2017 12:45	WG990189
2,4,6-Trichlorophenol	U		0.00812	0.347	1	06/20/2017 12:45	WG990189
(S) 2-Fluorophenol	*51.2*			*20.0-120*		*06/20/2017 12:45*	WG990189
(S) Phenol-d5	*57.0*			*20.0-120*		*06/20/2017 12:45*	WG990189
(S) Nitrobenzene-d5	*53.7*			*18.0-125*		*06/20/2017 12:45*	WG990189
(S) 2-Fluorobiphenyl	*62.5*			*28.0-120*		*06/20/2017 12:45*	WG990189
(S) 2,4,6-Tribromophenol	*71.8*			*17.0-137*		*06/20/2017 12:45*	WG990189
(S) p-Terphenyl-d14	*68.9*			*13.0-131*		*06/20/2017 12:45*	WG990189

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	95.5		1	06/19/2017 10:23	WG990406

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	0.0120	J	0.0105	0.0524	1	06/20/2017 15:23	WG990989
Acrylonitrile	U		0.00187	0.0105	1	06/20/2017 15:23	WG990989
Benzene	0.00158		0.000283	0.00105	1	06/20/2017 15:23	WG990989
Bromobenzene	U		0.000297	0.00105	1	06/20/2017 15:23	WG990989
Bromodichloromethane	U		0.000266	0.00105	1	06/20/2017 15:23	WG990989
Bromoform	U		0.000444	0.00105	1	06/20/2017 15:23	WG990989
Bromomethane	U		0.00140	0.00524	1	06/20/2017 15:23	WG990989
n-Butylbenzene	U		0.000270	0.00105	1	06/20/2017 15:23	WG990989
sec-Butylbenzene	U		0.000211	0.00105	1	06/20/2017 15:23	WG990989
tert-Butylbenzene	U		0.000216	0.00105	1	06/20/2017 15:23	WG990989
Carbon tetrachloride	U		0.000344	0.00105	1	06/20/2017 15:23	WG990989
Chlorobenzene	U		0.000222	0.00105	1	06/20/2017 15:23	WG990989
Chlorodibromomethane	U		0.000391	0.00105	1	06/20/2017 15:23	WG990989
Chloroethane	U		0.000991	0.00524	1	06/20/2017 15:23	WG990989
Chloroform	U		0.000240	0.00524	1	06/20/2017 15:23	WG990989
Chloromethane	U		0.000393	0.00262	1	06/20/2017 15:23	WG990989
2-Chlorotoluene	U		0.000315	0.00105	1	06/20/2017 15:23	WG990989
4-Chlorotoluene	U		0.000251	0.00105	1	06/20/2017 15:23	WG990989
1,2-Dibromo-3-Chloropropane	U		0.00110	0.00524	1	06/20/2017 15:23	WG990989
1,2-Dibromoethane	U		0.000359	0.00105	1	06/20/2017 15:23	WG990989
Dibromomethane	U		0.000400	0.00105	1	06/20/2017 15:23	WG990989
1,2-Dichlorobenzene	U		0.000319	0.00105	1	06/20/2017 15:23	WG990989
1,3-Dichlorobenzene	U		0.000250	0.00105	1	06/20/2017 15:23	WG990989
1,4-Dichlorobenzene	U		0.000237	0.00105	1	06/20/2017 15:23	WG990989
Dichlorodifluoromethane	U		0.000747	0.00524	1	06/20/2017 15:23	WG990989
1,1-Dichloroethane	U		0.000208	0.00105	1	06/20/2017 15:23	WG990989
1,2-Dichloroethane	U		0.000278	0.00105	1	06/20/2017 15:23	WG990989
1,1-Dichloroethene	U		0.000317	0.00105	1	06/20/2017 15:23	WG990989
cis-1,2-Dichloroethene	U	J4	0.000246	0.00105	1	06/20/2017 15:23	WG990989
trans-1,2-Dichloroethene	U	J4	0.000277	0.00105	1	06/20/2017 15:23	WG990989
1,2-Dichloropropane	U		0.000375	0.00105	1	06/20/2017 15:23	WG990989
1,1-Dichloropropene	U		0.000332	0.00105	1	06/20/2017 15:23	WG990989
1,3-Dichloropropane	U		0.000217	0.00105	1	06/20/2017 15:23	WG990989
cis-1,3-Dichloropropene	U		0.000274	0.00105	1	06/20/2017 15:23	WG990989
trans-1,3-Dichloropropene	U		0.000280	0.00105	1	06/20/2017 15:23	WG990989
2,2-Dichloropropane	U		0.000292	0.00105	1	06/20/2017 15:23	WG990989
Di-isopropyl ether	U		0.000260	0.00105	1	06/20/2017 15:23	WG990989
Ethylbenzene	U		0.000311	0.00105	1	06/20/2017 15:23	WG990989
Hexachloro-1,3-butadiene	U		0.000358	0.00105	1	06/20/2017 15:23	WG990989
Isopropylbenzene	U		0.000255	0.00105	1	06/20/2017 15:23	WG990989
p-Isopropyltoluene	U		0.000214	0.00105	1	06/20/2017 15:23	WG990989
2-Butanone (MEK)	U	J0	0.00490	0.0105	1	06/20/2017 15:23	WG990989
Methylene Chloride	U		0.00105	0.00524	1	06/20/2017 15:23	WG990989
4-Methyl-2-pentanone (MIBK)	U		0.00197	0.0105	1	06/20/2017 15:23	WG990989
Methyl tert-butyl ether	U		0.000222	0.00105	1	06/20/2017 15:23	WG990989
Naphthalene	U		0.00105	0.00524	1	06/20/2017 15:23	WG990989
n-Propylbenzene	U		0.000216	0.00105	1	06/20/2017 15:23	WG990989
Styrene	U		0.000245	0.00105	1	06/20/2017 15:23	WG990989
1,1,1,2-Tetrachloroethane	U		0.000277	0.00105	1	06/20/2017 15:23	WG990989
1,1,2,2-Tetrachloroethane	U		0.000382	0.00105	1	06/20/2017 15:23	WG990989

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.000382	0.00105	1	06/20/2017 15:23	WG990989
Tetrachloroethene	U		0.000289	0.00105	1	06/20/2017 15:23	WG990989
Toluene	0.00257	J	0.000455	0.00524	1	06/20/2017 15:23	WG990989
1,2,3-Trichlorobenzene	U		0.000320	0.00105	1	06/20/2017 15:23	WG990989
1,2,4-Trichlorobenzene	U		0.000406	0.00105	1	06/20/2017 15:23	WG990989
1,1,1-Trichloroethane	U		0.000300	0.00105	1	06/20/2017 15:23	WG990989
1,1,2-Trichloroethane	U		0.000290	0.00105	1	06/20/2017 15:23	WG990989
Trichloroethene	U		0.000292	0.00105	1	06/20/2017 15:23	WG990989
Trichlorofluoromethane	U		0.000400	0.00524	1	06/20/2017 15:23	WG990989
1,2,3-Trichloropropane	U		0.000776	0.00262	1	06/20/2017 15:23	WG990989
1,2,4-Trimethylbenzene	0.000434	J	0.000221	0.00105	1	06/20/2017 15:23	WG990989
1,2,3-Trimethylbenzene	U		0.000301	0.00105	1	06/20/2017 15:23	WG990989
Vinyl chloride	U		0.000305	0.00105	1	06/20/2017 15:23	WG990989
1,3,5-Trimethylbenzene	0.000299	J	0.000279	0.00105	1	06/20/2017 15:23	WG990989
Xylenes, Total	0.00193	J	0.000731	0.00314	1	06/20/2017 15:23	WG990989
(S) Toluene-d8	*104*			*80.0-120*		*06/20/2017 15:23*	WG990989
(S) Dibromofluoromethane	*125*			*74.0-131*		*06/20/2017 15:23*	WG990989
(S) 4-Bromofluorobenzene	*93.4*			*64.0-132*		*06/20/2017 15:23*	WG990989

Semi Volatile Organic Compounds (GC/MS) by Method 8270D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	U		0.00672	0.0346	1	06/20/2017 13:11	WG990189
Acenaphthylene	U		0.00703	0.0346	1	06/20/2017 13:11	WG990189
Anthracene	U		0.00662	0.0346	1	06/20/2017 13:11	WG990189
Benzidine	U	J4	0.0667	0.349	1	06/20/2017 13:11	WG990189
Benzo(a)anthracene	U		0.00448	0.0346	1	06/20/2017 13:11	WG990189
Benzo(b)fluoranthene	U		0.00728	0.0346	1	06/20/2017 13:11	WG990189
Benzo(k)fluoranthene	U		0.00610	0.0346	1	06/20/2017 13:11	WG990189
Benzo(g,h,i)perylene	U		0.00755	0.0346	1	06/20/2017 13:11	WG990189
Benzo(a)pyrene	U		0.00574	0.0346	1	06/20/2017 13:11	WG990189
Bis(2-chlorethoxy)methane	U		0.00806	0.349	1	06/20/2017 13:11	WG990189
Bis(2-chloroethyl)ether	U		0.00938	0.349	1	06/20/2017 13:11	WG990189
Bis(2-chloroisopropyl)ether	U		0.00796	0.349	1	06/20/2017 13:11	WG990189
4-Bromophenyl-phenylether	U		0.0119	0.349	1	06/20/2017 13:11	WG990189
2-Chloronaphthalene	U		0.00669	0.0346	1	06/20/2017 13:11	WG990189
4-Chlorophenyl-phenylether	U		0.00657	0.349	1	06/20/2017 13:11	WG990189
Chrysene	U		0.00581	0.0346	1	06/20/2017 13:11	WG990189
Dibenz(a,h)anthracene	U		0.00860	0.0346	1	06/20/2017 13:11	WG990189
3,3-Dichlorobenzidine	U	J4	0.0832	0.349	1	06/20/2017 13:11	WG990189
2,4-Dinitrotoluene	U		0.00636	0.349	1	06/20/2017 13:11	WG990189
2,6-Dinitrotoluene	U		0.00772	0.349	1	06/20/2017 13:11	WG990189
Fluoranthene	U		0.00519	0.0346	1	06/20/2017 13:11	WG990189
Fluorene	U		0.00714	0.0346	1	06/20/2017 13:11	WG990189
Hexachlorobenzene	U		0.00897	0.349	1	06/20/2017 13:11	WG990189
Hexachloro-1,3-butadiene	U		0.0105	0.349	1	06/20/2017 13:11	WG990189
Hexachlorocyclopentadiene	U		0.0615	0.349	1	06/20/2017 13:11	WG990189
Hexachloroethane	U		0.0140	0.349	1	06/20/2017 13:11	WG990189
Indeno(1,2,3-cd)pyrene	U		0.00809	0.0346	1	06/20/2017 13:11	WG990189
Isophorone	U		0.00547	0.349	1	06/20/2017 13:11	WG990189
Naphthalene	U		0.00931	0.0346	1	06/20/2017 13:11	WG990189
Nitrobenzene	U		0.00728	0.349	1	06/20/2017 13:11	WG990189
n-Nitrosodimethylamine	U		0.0678	0.349	1	06/20/2017 13:11	WG990189
n-Nitrosodiphenylamine	U		0.00622	0.349	1	06/20/2017 13:11	WG990189
n-Nitrosodi-n-propylamine	U		0.00949	0.349	1	06/20/2017 13:11	WG990189
Phenanthrene	U		0.00553	0.0346	1	06/20/2017 13:11	WG990189

Semi Volatile Organic Compounds (GC/MS) by Method 8270D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzylbutyl phthalate	U		0.0108	0.349	1	06/20/2017 13:11	WG990189
Bis(2-ethylhexyl)phthalate	U		0.0126	0.349	1	06/20/2017 13:11	WG990189
Di-n-butyl phthalate	U		0.0114	0.349	1	06/20/2017 13:11	WG990189
Diethyl phthalate	U		0.00724	0.349	1	06/20/2017 13:11	WG990189
Dimethyl phthalate	U		0.00566	0.349	1	06/20/2017 13:11	WG990189
Di-n-octyl phthalate	U		0.00950	0.349	1	06/20/2017 13:11	WG990189
Pyrene	U		0.0129	0.0346	1	06/20/2017 13:11	WG990189
1,2,4-Trichlorobenzene	U		0.00917	0.349	1	06/20/2017 13:11	WG990189
4-Chloro-3-methylphenol	U		0.00500	0.349	1	06/20/2017 13:11	WG990189
2-Chlorophenol	U		0.00870	0.349	1	06/20/2017 13:11	WG990189
2,4-Dichlorophenol	U		0.00781	0.349	1	06/20/2017 13:11	WG990189
2,4-Dimethylphenol	U		0.0493	0.349	1	06/20/2017 13:11	WG990189
4,6-Dinitro-2-methylphenol	U		0.130	0.349	1	06/20/2017 13:11	WG990189
2,4-Dinitrophenol	U	J3	0.103	0.349	1	06/20/2017 13:11	WG990189
2-Nitrophenol	U		0.0136	0.349	1	06/20/2017 13:11	WG990189
4-Nitrophenol	U		0.0550	0.349	1	06/20/2017 13:11	WG990189
Pentachlorophenol	U		0.0503	0.349	1	06/20/2017 13:11	WG990189
Phenol	U		0.00728	0.349	1	06/20/2017 13:11	WG990189
2,4,6-Trichlorophenol	U		0.00816	0.349	1	06/20/2017 13:11	WG990189
(S) 2-Fluorophenol	*63.1*			*20.0-120*		*06/20/2017 13:11*	WG990189
(S) Phenol-d5	*63.1*			*20.0-120*		*06/20/2017 13:11*	WG990189
(S) Nitrobenzene-d5	*59.5*			*18.0-125*		*06/20/2017 13:11*	WG990189
(S) 2-Fluorobiphenyl	*64.4*			*28.0-120*		*06/20/2017 13:11*	WG990189
(S) 2,4,6-Tribromophenol	*85.0*			*17.0-137*		*06/20/2017 13:11*	WG990189
(S) p-Terphenyl-d14	*67.0*			*13.0-131*		*06/20/2017 13:11*	WG990189

Method Blank (MB)

(MB) R3226648-1 06/17/17 12:20

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.000300			

L916338-01 Original Sample (OS) • Duplicate (DUP)

(OS) L916338-01 06/17/17 12:20 • (DUP) R3226648-3 06/17/17 12:20

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	94.7	94.7	1	0.0561		5

Laboratory Control Sample (LCS)

(LCS) R3226648-2 06/17/17 12:20

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3226908-1 06/19/17 08:55

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.000400			

L916338-02 Original Sample (OS) • Duplicate (DUP)

(OS) L916338-02 06/19/17 08:55 • (DUP) R3226908-3 06/19/17 08:55

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	93.5	93.0	1	0.469		5

Laboratory Control Sample (LCS)

(LCS) R3226908-2 06/19/17 08:55

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3226916-1 06/19/17 10:23

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.000600			

L916341-02 Original Sample (OS) • Duplicate (DUP)

(OS) L916341-02 06/19/17 10:23 • (DUP) R3226916-3 06/19/17 10:23

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	73.1	73.2	1	0.124		5

Laboratory Control Sample (LCS)

(LCS) R3226916-2 06/19/17 10:23

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3227137-3 06/20/17 11:50

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acetone	U		0.0100	0.0500
Acrylonitrile	U		0.00179	0.0100
Benzene	U		0.000270	0.00100
Bromobenzene	U		0.000284	0.00100
Bromodichloromethane	U		0.000254	0.00100
Bromoform	U		0.000424	0.00100
Bromomethane	U		0.00134	0.00500
n-Butylbenzene	U		0.000258	0.00100
sec-Butylbenzene	U		0.000201	0.00100
tert-Butylbenzene	U		0.000206	0.00100
Carbon tetrachloride	U		0.000328	0.00100
Chlorobenzene	U		0.000212	0.00100
Chlorodibromomethane	U		0.000373	0.00100
Chloroethane	U		0.000946	0.00500
Chloroform	U		0.000229	0.00500
Chloromethane	U		0.000375	0.00250
2-Chlorotoluene	U		0.000301	0.00100
4-Chlorotoluene	U		0.000240	0.00100
1,2-Dibromo-3-Chloropropane	U		0.00105	0.00500
1,2-Dibromoethane	U		0.000343	0.00100
Dibromomethane	U		0.000382	0.00100
1,2-Dichlorobenzene	U		0.000305	0.00100
1,3-Dichlorobenzene	U		0.000239	0.00100
1,4-Dichlorobenzene	U		0.000226	0.00100
Dichlorodifluoromethane	U		0.000713	0.00500
1,1-Dichloroethane	U		0.000199	0.00100
1,2-Dichloroethane	U		0.000265	0.00100
1,1-Dichloroethene	U		0.000303	0.00100
cis-1,2-Dichloroethene	U		0.000235	0.00100
trans-1,2-Dichloroethene	U		0.000264	0.00100
1,2-Dichloropropane	U		0.000358	0.00100
1,1-Dichloropropene	U		0.000317	0.00100
1,3-Dichloropropane	U		0.000207	0.00100
cis-1,3-Dichloropropene	U		0.000262	0.00100
trans-1,3-Dichloropropene	U		0.000267	0.00100
2,2-Dichloropropane	U		0.000279	0.00100
Di-isopropyl ether	U		0.000248	0.00100
Ethylbenzene	U		0.000297	0.00100
Hexachloro-1,3-butadiene	U		0.000342	0.00100
Isopropylbenzene	U		0.000243	0.00100

Method Blank (MB)

(MB) R3227137-3 06/20/17 11:50

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
p-Isopropyltoluene	U		0.000204	0.00100
2-Butanone (MEK)	U		0.00468	0.0100
Methylene Chloride	0.00152	J	0.00100	0.00500
4-Methyl-2-pentanone (MIBK)	U		0.00188	0.0100
Methyl tert-butyl ether	U		0.000212	0.00100
Naphthalene	U		0.00100	0.00500
n-Propylbenzene	U		0.000206	0.00100
Styrene	U		0.000234	0.00100
1,1,1,2-Tetrachloroethane	U		0.000264	0.00100
1,1,2,2-Tetrachloroethane	U		0.000365	0.00100
Tetrachloroethene	U		0.000276	0.00100
Toluene	U		0.000434	0.00500
1,1,2-Trichlorotrifluoroethane	U		0.000365	0.00100
1,2,3-Trichlorobenzene	U		0.000306	0.00100
1,2,4-Trichlorobenzene	U		0.000388	0.00100
1,1,1-Trichloroethane	U		0.000286	0.00100
1,1,2-Trichloroethane	U		0.000277	0.00100
Trichloroethene	U		0.000279	0.00100
Trichlorofluoromethane	U		0.000382	0.00500
1,2,3-Trichloropropane	U		0.000741	0.00250
1,2,3-Trimethylbenzene	U		0.000287	0.00100
1,2,4-Trimethylbenzene	U		0.000211	0.00100
1,3,5-Trimethylbenzene	U		0.000266	0.00100
Vinyl chloride	U		0.000291	0.00100
Xylenes, Total	U		0.000698	0.00300
(S) Toluene-d8	*102*			*80.0-120*
(S) Dibromofluoromethane	*111*			*74.0-131*
(S) 4-Bromofluorobenzene	*97.3*			*64.0-132*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3227137-1 06/20/17 10:42 • (LCSD) R3227137-2 06/20/17 11:05

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	0.125	0.131	0.137	105	110	11.0-160			5.00	23
Acrylonitrile	0.125	0.115	0.119	92.4	95.0	61.0-143			2.86	20
Benzene	0.0250	0.0299	0.0291	119	117	71.0-124			2.47	20
Bromobenzene	0.0250	0.0251	0.0245	100	98.1	78.0-120			2.09	20
Bromodichloromethane	0.0250	0.0252	0.0251	101	101	75.0-120			0.0700	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3227137-1 06/20/17 10:42 • (LCSD) R3227137-2 06/20/17 11:05

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Bromoform	0.0250	0.0220	0.0231	88.1	92.4	65.0-133			4.74	20
Bromomethane	0.0250	0.0295	0.0288	118	115	26.0-160			2.42	20
n-Butylbenzene	0.0250	0.0278	0.0267	111	107	73.0-126			4.01	20
sec-Butylbenzene	0.0250	0.0268	0.0264	107	106	75.0-121			1.74	20
tert-Butylbenzene	0.0250	0.0260	0.0255	104	102	74.0-122			1.92	20
Carbon tetrachloride	0.0250	0.0277	0.0272	111	109	66.0-123			1.71	20
Chlorobenzene	0.0250	0.0268	0.0265	107	106	79.0-121			1.03	20
Chlorodibromomethane	0.0250	0.0240	0.0241	95.9	96.4	74.0-128			0.470	20
Chloroethane	0.0250	0.0296	0.0285	118	114	51.0-147			3.50	20
Chloroform	0.0250	0.0290	0.0290	116	116	73.0-123			0.120	20
Chloromethane	0.0250	0.0244	0.0236	97.6	94.4	51.0-138			3.27	20
2-Chlorotoluene	0.0250	0.0263	0.0260	105	104	72.0-124			1.14	20
4-Chlorotoluene	0.0250	0.0263	0.0261	105	105	78.0-120			0.560	20
1,2-Dibromo-3-Chloropropane	0.0250	0.0210	0.0209	83.9	83.7	65.0-126			0.210	20
1,2-Dibromoethane	0.0250	0.0243	0.0254	97.4	102	78.0-122			4.20	20
Dibromomethane	0.0250	0.0253	0.0261	101	104	79.0-120			3.14	20
1,2-Dichlorobenzene	0.0250	0.0262	0.0255	105	102	80.0-120			2.46	20
1,3-Dichlorobenzene	0.0250	0.0256	0.0253	102	101	72.0-123			1.17	20
1,4-Dichlorobenzene	0.0250	0.0257	0.0252	103	101	77.0-120			1.87	20
Dichlorodifluoromethane	0.0250	0.0241	0.0234	96.3	93.5	49.0-155			3.03	20
1,1-Dichloroethane	0.0250	0.0287	0.0282	115	113	70.0-128			1.70	20
1,2-Dichloroethane	0.0250	0.0241	0.0244	96.5	97.4	69.0-128			0.910	20
1,1-Dichloroethene	0.0250	0.0309	0.0305	124	122	63.0-131			1.43	20
cis-1,2-Dichloroethene	0.0250	0.0309	0.0307	124	123	74.0-123	J4		0.910	20
trans-1,2-Dichloroethene	0.0250	0.0308	0.0302	123	121	72.0-122	J4		1.90	20
1,2-Dichloropropane	0.0250	0.0249	0.0252	99.5	101	75.0-126			1.19	20
1,1-Dichloropropene	0.0250	0.0296	0.0294	118	118	72.0-130			0.720	20
1,3-Dichloropropane	0.0250	0.0246	0.0249	98.4	99.7	80.0-121			1.29	20
cis-1,3-Dichloropropene	0.0250	0.0249	0.0251	99.7	100	80.0-125			0.810	20
trans-1,3-Dichloropropene	0.0250	0.0234	0.0241	93.5	96.6	75.0-129			3.23	20
2,2-Dichloropropane	0.0250	0.0289	0.0282	116	113	60.0-129			2.38	20
Di-isopropyl ether	0.0250	0.0234	0.0235	93.6	94.2	62.0-133			0.610	20
Ethylbenzene	0.0250	0.0269	0.0263	108	105	77.0-120			2.37	20
Hexachloro-1,3-butadiene	0.0250	0.0247	0.0236	99.0	94.5	68.0-128			4.59	20
Isopropylbenzene	0.0250	0.0264	0.0258	106	103	75.0-120			2.12	20
p-Isopropyltoluene	0.0250	0.0258	0.0256	103	102	74.0-125			0.580	20
2-Butanone (MEK)	0.125	0.0839	0.0885	67.1	70.8	37.0-159			5.40	20
Methylene Chloride	0.0250	0.0278	0.0271	111	108	67.0-123			2.41	20
4-Methyl-2-pentanone (MIBK)	0.125	0.0825	0.0879	66.0	70.3	60.0-144			6.36	20
Methyl tert-butyl ether	0.0250	0.0276	0.0279	110	112	66.0-125			1.13	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3227137-1 06/20/17 10:42 • (LCSD) R3227137-2 06/20/17 11:05

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Naphthalene	0.0250	0.0226	0.0230	90.4	92.0	64.0-125			1.67	20
n-Propylbenzene	0.0250	0.0272	0.0264	109	106	78.0-120			2.89	20
Styrene	0.0250	0.0232	0.0230	92.9	92.1	78.0-124			0.910	20
1,1,1,2-Tetrachloroethane	0.0250	0.0254	0.0253	102	101	74.0-124			0.390	20
1,1,2,2-Tetrachloroethane	0.0250	0.0230	0.0241	91.9	96.3	73.0-120			4.62	20
Tetrachloroethene	0.0250	0.0247	0.0247	98.8	98.7	70.0-127			0.0400	20
Toluene	0.0250	0.0260	0.0263	104	105	77.0-120			0.930	20
1,1,2-Trichlorotrifluoroethane	0.0250	0.0309	0.0302	124	121	64.0-135			2.33	20
1,2,3-Trichlorobenzene	0.0250	0.0240	0.0243	96.1	97.2	68.0-126			1.18	20
1,2,4-Trichlorobenzene	0.0250	0.0239	0.0238	95.8	95.2	70.0-127			0.550	20
1,1,1-Trichloroethane	0.0250	0.0288	0.0283	115	113	69.0-125			1.67	20
1,1,2-Trichloroethane	0.0250	0.0245	0.0254	98.1	101	78.0-120			3.36	20
Trichloroethene	0.0250	0.0268	0.0270	107	108	79.0-120			0.570	20
Trichlorofluoromethane	0.0250	0.0309	0.0303	124	121	59.0-136			1.94	20
1,2,3-Trichloropropane	0.0250	0.0224	0.0225	89.7	89.9	73.0-124			0.220	20
1,2,3-Trimethylbenzene	0.0250	0.0270	0.0263	108	105	76.0-120			2.73	20
1,2,4-Trimethylbenzene	0.0250	0.0261	0.0258	105	103	75.0-120			1.24	20
1,3,5-Trimethylbenzene	0.0250	0.0260	0.0256	104	102	75.0-120			1.78	20
Vinyl chloride	0.0250	0.0275	0.0271	110	108	63.0-134			1.57	20
Xylenes, Total	0.0750	0.0812	0.0789	108	105	77.0-120			2.87	20
(S) Toluene-d8				*100*	*100*	*80.0-120*				
(S) Dibromofluoromethane				*112*	*109*	*74.0-131*				
(S) 4-Bromofluorobenzene				*96.0*	*94.2*	*64.0-132*				

Method Blank (MB)

(MB) R3226825-3 06/19/17 11:36

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Aldrin	U		0.00135	0.0200
Alpha BHC	U		0.00136	0.0200
Beta BHC	U		0.00160	0.0200
Delta BHC	U		0.00143	0.0200
Gamma BHC	U		0.00145	0.0200
4,4-DDD	U		0.00156	0.0200
4,4-DDE	U		0.00154	0.0200
4,4-DDT	U		0.00200	0.0200
Dieldrin	U		0.00152	0.0200
Endosulfan I	U		0.00149	0.0200
Endosulfan II	U		0.00160	0.0200
Endosulfan sulfate	U		0.00151	0.0200
Endrin	U		0.00157	0.0200
Endrin aldehyde	U		0.00129	0.0200
Endrin ketone	U		0.00165	0.0200
Heptachlor	U		0.00154	0.0200
Heptachlor epoxide	U		0.00161	0.0200
Hexachlorobenzene	U		0.00124	0.0200
Methoxychlor	U		0.00178	0.0200
Chlordane	U		0.0390	0.200
Toxaphene	U		0.0360	0.400
(S) Decachlorobiphenyl	*92.5*			*10.0-148*
(S) Tetrachloro-m-xylene	*80.2*			*21.0-146*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3226825-1 06/19/17 11:11 • (LCSD) R3226825-2 06/19/17 11:24

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Aldrin	0.0667	0.0594	0.0640	89.1	96.0	55.0-137			7.50	29
Alpha BHC	0.0667	0.0593	0.0633	88.8	94.8	55.0-136			6.54	28
Beta BHC	0.0667	0.0532	0.0566	79.7	84.8	53.0-133			6.21	28
Delta BHC	0.0667	0.0557	0.0593	83.4	88.9	53.0-139			6.27	29
Gamma BHC	0.0667	0.0579	0.0620	86.8	92.9	54.0-136			6.83	29
4,4-DDD	0.0667	0.0635	0.0700	95.1	105	51.0-141			9.79	29
4,4-DDE	0.0667	0.0607	0.0666	91.0	99.8	53.0-142			9.17	30
4,4-DDT	0.0667	0.0574	0.0641	86.0	96.1	47.0-143			11.1	30
Dieldrin	0.0667	0.0613	0.0671	91.9	101	54.0-141			8.96	29
Endosulfan I	0.0667	0.0579	0.0622	86.9	93.2	54.0-141			7.07	29

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3226825-1 06/19/17 11:11 • (LCSD) R3226825-2 06/19/17 11:24

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Endosulfan II	0.0667	0.0598	0.0654	89.7	98.1	53.0-140			8.98	28
Endosulfan sulfate	0.0667	0.0615	0.0678	92.2	102	52.0-141			9.65	29
Endrin	0.0667	0.0594	0.0645	89.0	96.7	52.0-137			8.25	29
Endrin aldehyde	0.0667	0.0443	0.0489	66.4	73.3	30.0-127			9.81	31
Endrin ketone	0.0667	0.0749	0.0832	112	125	51.0-139			10.6	28
Heptachlor	0.0667	0.0583	0.0626	87.4	93.9	53.0-144			7.15	29
Heptachlor epoxide	0.0667	0.0580	0.0627	86.9	94.0	54.0-137			7.91	28
Hexachlorobenzene	0.0667	0.0536	0.0573	80.4	85.9	50.0-135			6.60	28
Methoxychlor	0.0667	0.0674	0.0752	101	113	49.0-145			10.9	29
(S) Decachlorobiphenyl				*88.2*	*99.2*	*10.0-148*				
(S) Tetrachloro-m-xylene				*78.4*	*82.1*	*21.0-146*				

Method Blank (MB)

(MB) R3226933-1 06/19/17 11:25

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
PCB 1016	U		0.00350	0.0170
PCB 1221	U		0.00537	0.0170
PCB 1232	U		0.00417	0.0170
PCB 1242	U		0.00318	0.0170
PCB 1248	U		0.00315	0.0170
PCB 1254	U		0.00472	0.0170
PCB 1260	U		0.00494	0.0170
(S) Decachlorobiphenyl	*137*			*10.0-148*
(S) Tetrachloro-m-xylene	*102*			*21.0-146*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3226933-2 06/19/17 11:39 • (LCSD) R3226933-3 06/19/17 11:54

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
PCB 1260	0.167	0.205	0.166	123	99.4	37.0-145			21.0	37
PCB 1016	0.167	0.164	0.141	98.6	84.7	36.0-141			15.1	35
(S) Decachlorobiphenyl				*138*	*102*	*10.0-148*				
(S) Tetrachloro-m-xylene				*96.6*	*78.8*	*21.0-146*				

L915613-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L915613-03 06/19/17 12:22 • (MS) R3226933-4 06/19/17 12:36 • (MSD) R3226933-5 06/19/17 12:51

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
PCB 1260	0.170	ND	0.161	0.174	94.8	103	1	10.0-160	P	P	8.15	31
PCB 1016	0.170	ND	0.132	0.143	78.0	84.6	1	17.0-160			8.18	30
(S) Decachlorobiphenyl					*102*	*102*		*10.0-148*				
(S) Tetrachloro-m-xylene					*79.5*	*80.9*		*21.0-146*				

Method Blank (MB)

(MB) R3227095-3 06/20/17 10:12

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acenaphthene	U		0.00642	0.0330
Acenaphthylene	U		0.00671	0.0330
Anthracene	U		0.00632	0.0330
Benzidine	U		0.0637	0.333
Benzo(a)anthracene	U		0.00428	0.0330
Benzo(b)fluoranthene	U		0.00695	0.0330
Benzo(k)fluoranthene	U		0.00582	0.0330
Benzo(g,h,i)perylene	U		0.00721	0.0330
Benzo(a)pyrene	U		0.00548	0.0330
Bis(2-chlorethoxy)methane	U		0.00770	0.333
Bis(2-chloroethyl)ether	U		0.00896	0.333
Bis(2-chloroisopropyl)ether	U		0.00760	0.333
4-Bromophenyl-phenylether	U		0.0114	0.333
2-Chloronaphthalene	U		0.00639	0.0330
4-Chlorophenyl-phenylether	U		0.00627	0.333
Chrysene	U		0.00555	0.0330
Dibenz(a,h)anthracene	U		0.00821	0.0330
3,3-Dichlorobenzidine	U		0.0794	0.333
2,4-Dinitrotoluene	U		0.00607	0.333
2,6-Dinitrotoluene	U		0.00737	0.333
Fluoranthene	U		0.00496	0.0330
Fluorene	U		0.00682	0.0330
Hexachlorobenzene	U		0.00856	0.333
Hexachloro-1,3-butadiene	U		0.0100	0.333
Hexachlorocyclopentadiene	U		0.0587	0.333
Hexachloroethane	U		0.0134	0.333
Indeno(1,2,3-cd)pyrene	U		0.00772	0.0330
Isophorone	U		0.00522	0.333
Naphthalene	U		0.00889	0.0330
Nitrobenzene	U		0.00695	0.333
n-Nitrosodimethylamine	U		0.0647	0.333
n-Nitrosodiphenylamine	U		0.00594	0.333
n-Nitrosodi-n-propylamine	U		0.00906	0.333
Phenanthrene	U		0.00528	0.0330
Benzylbutyl phthalate	U		0.0103	0.333
Bis(2-ethylhexyl)phthalate	U		0.0120	0.333
Di-n-butyl phthalate	U		0.0109	0.333
Diethyl phthalate	U		0.00691	0.333
Dimethyl phthalate	U		0.00540	0.333
Di-n-octyl phthalate	U		0.00907	0.333

Method Blank (MB)

(MB) R3227095-3 06/20/17 10:12

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Pyrene	U		0.0123	0.0330
1,2,4-Trichlorobenzene	U		0.00876	0.333
4-Chloro-3-methylphenol	U		0.00477	0.333
2-Chlorophenol	U		0.00831	0.333
2,4-Dichlorophenol	U		0.00746	0.333
2,4-Dimethylphenol	U		0.0471	0.333
4,6-Dinitro-2-methylphenol	U		0.124	0.333
2,4-Dinitrophenol	U		0.0980	0.333
2-Nitrophenol	U		0.0130	0.333
4-Nitrophenol	U		0.0525	0.333
Pentachlorophenol	U		0.0480	0.333
Phenol	U		0.00695	0.333
2,4,6-Trichlorophenol	U		0.00779	0.333
(S) Nitrobenzene-d5	*63.6*			*18.0-125*
(S) 2-Fluorobiphenyl	*71.2*			*28.0-120*
(S) p-Terphenyl-d14	*86.4*			*13.0-131*
(S) Phenol-d5	*67.3*			*20.0-120*
(S) 2-Fluorophenol	*58.0*			*20.0-120*
(S) 2,4,6-Tribromophenol	*71.9*			*17.0-137*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3227095-1 06/20/17 09:21 • (LCSD) R3227095-2 06/20/17 09:46

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acenaphthene	0.667	0.495	0.509	74.3	76.3	47.0-120			2.68	21
Acenaphthylene	0.667	0.532	0.544	79.8	81.5	48.0-120			2.14	21
Anthracene	0.667	0.518	0.522	77.7	78.2	46.0-120			0.620	20
Benzidine	0.667	0.649	0.880	97.3	132	1.00-120		J4	30.2	36
Benzo(a)anthracene	0.667	0.519	0.528	77.8	79.2	46.0-120			1.82	20
Benzo(b)fluoranthene	0.667	0.531	0.549	79.6	82.4	45.0-120			3.46	22
Benzo(k)fluoranthene	0.667	0.524	0.535	78.6	80.3	45.0-120			2.11	23
Benzo(g,h,i)perylene	0.667	0.574	0.639	86.0	95.8	48.0-120			10.7	21
Benzo(a)pyrene	0.667	0.534	0.549	80.1	82.3	46.0-120			2.78	21
Bis(2-chlorethoxy)methane	0.667	0.361	0.370	54.1	55.5	41.0-120			2.52	22
Bis(2-chloroethyl)ether	0.667	0.443	0.414	66.4	62.1	28.0-120			6.67	28
Bis(2-chloroisopropyl)ether	0.667	0.458	0.472	68.7	70.7	40.0-120			2.91	27
4-Bromophenyl-phenylether	0.667	0.503	0.504	75.4	75.6	45.0-120			0.300	20
2-Chloronaphthalene	0.667	0.482	0.517	72.3	77.4	43.0-120			6.83	22

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3227095-1 06/20/17 09:21 • (LCSD) R3227095-2 06/20/17 09:46

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
4-Chlorophenyl-phenylether	0.667	0.490	0.504	73.5	75.5	46.0-120			2.74	21
Chrysene	0.667	0.515	0.522	77.3	78.3	46.0-120			1.31	20
Dibenz(a,h)anthracene	0.667	0.516	0.617	77.4	92.5	47.0-120			17.7	22
3,3-Dichlorobenzidine	0.667	1.56	1.62	234	243	20.0-130	J4	J4	3.77	24
2,4-Dinitrotoluene	0.667	0.552	0.580	82.8	87.0	48.0-122			4.90	21
2,6-Dinitrotoluene	0.667	0.523	0.535	78.4	80.2	46.0-120			2.28	21
Fluoranthene	0.667	0.487	0.576	73.0	86.4	46.0-120			16.7	20
Fluorene	0.667	0.508	0.528	76.1	79.1	47.0-120			3.88	20
Hexachlorobenzene	0.667	0.478	0.502	71.6	75.3	42.0-120			5.06	20
Hexachloro-1,3-butadiene	0.667	0.358	0.359	53.7	53.8	36.0-120			0.170	26
Hexachlorocyclopentadiene	0.667	0.443	0.473	66.4	70.9	20.0-124			6.65	26
Hexachloroethane	0.667	0.422	0.421	63.3	63.1	32.0-120			0.270	31
Indeno(1,2,3-cd)pyrene	0.667	0.542	0.647	81.3	96.9	48.0-120			17.5	21
Isophorone	0.667	0.376	0.373	56.4	55.9	42.0-120			0.850	21
Naphthalene	0.667	0.356	0.371	53.4	55.6	41.0-120			3.95	24
Nitrobenzene	0.667	0.349	0.333	52.3	49.9	36.0-120			4.85	24
n-Nitrosodimethylamine	0.667	0.411	0.395	61.7	59.3	20.0-120			3.98	31
n-Nitrosodiphenylamine	0.667	0.492	0.502	73.8	75.3	42.0-120			2.05	20
n-Nitrosodi-n-propylamine	0.667	0.451	0.471	67.6	70.5	39.0-120			4.19	23
Phenanthrene	0.667	0.509	0.507	76.3	75.9	45.0-120			0.510	20
Benzylbutyl phthalate	0.667	0.521	0.561	78.1	84.1	41.0-123			7.35	20
Bis(2-ethylhexyl)phthalate	0.667	0.540	0.544	81.0	81.5	41.0-124			0.670	20
Di-n-butyl phthalate	0.667	0.490	0.549	73.5	82.3	44.0-120			11.3	20
Diethyl phthalate	0.667	0.515	0.520	77.2	77.9	46.0-120			0.970	20
Dimethyl phthalate	0.667	0.502	0.541	75.2	81.1	47.0-120			7.53	21
Di-n-octyl phthalate	0.667	0.557	0.559	83.5	83.8	40.0-123			0.320	21
Pyrene	0.667	0.483	0.545	72.4	81.7	45.0-120			12.0	21
1,2,4-Trichlorobenzene	0.667	0.374	0.375	56.1	56.2	40.0-120			0.270	25
4-Chloro-3-methylphenol	0.667	0.413	0.412	61.9	61.7	46.0-120			0.280	20
2-Chlorophenol	0.667	0.458	0.454	68.6	68.0	37.0-120			0.900	27
2,4-Dichlorophenol	0.667	0.382	0.399	57.3	59.8	45.0-120			4.39	21
2,4-Dimethylphenol	0.667	0.361	0.374	54.2	56.1	40.0-120			3.58	22
4,6-Dinitro-2-methylphenol	0.667	0.447	0.386	67.0	57.9	34.0-120			14.5	23
2,4-Dinitrophenol	0.667	0.306	0.220	45.9	33.0	10.0-120		J3	32.8	30
2-Nitrophenol	0.667	0.420	0.411	63.0	61.6	42.0-120			2.28	24
4-Nitrophenol	0.667	0.526	0.522	78.8	78.3	40.0-120			0.620	21
Pentachlorophenol	0.667	0.391	0.417	58.7	62.5	33.0-122			6.36	22
Phenol	0.667	0.475	0.472	71.2	70.8	38.0-120			0.530	25
2,4,6-Trichlorophenol	0.667	0.498	0.550	74.6	82.5	47.0-120			10.0	22
(S) Nitrobenzene-d5				*56.7*	*52.6*	*18.0-125*				

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3227095-1 06/20/17 09:21 • (LCSD) R3227095-2 06/20/17 09:46

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
(S) 2-Fluorobiphenyl				*72.2*	*76.3*	*28.0-120*				
(S) p-Terphenyl-d14				*75.6*	*84.4*	*13.0-131*				
(S) Phenol-d5				*75.4*	*73.3*	*20.0-120*				
(S) 2-Fluorophenol				*75.5*	*72.4*	*20.0-120*				
(S) 2,4,6-Tribromophenol				*83.8*	*87.5*	*17.0-137*				

Abbreviations and Definitions

SDG	Sample Delivery Group.
MDL	Method Detection Limit.
MDL (dry)	Method Detection Limit.
RDL (dry)	Reported Detection Limit.
RDL	Reported Detection Limit.
U	Not detected at the Reporting Limit (or MDL where applicable).
RPD	Relative Percent Difference.
(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
Rec.	Recovery.

Qualifier	Description
J	The identification of the analyte is acceptable; the reported value is an estimate.
J0	J0: Calibration verification outside of acceptance limits. Result is estimated.
J3	The associated batch QC was outside the established quality control range for precision.
J4	The associated batch QC was outside the established quality control range for accuracy.
P	RPD between the primary and confirmatory analysis exceeded 40%.

ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our "one location" design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be **YOUR LAB OF CHOICE.**
* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

State Accreditations

Alabama	40660	Nevada	TN-03-2002-34
Alaska	UST-080	New Hampshire	2975
Arizona	AZ0612	New Jersey–NELAP	TN002
Arkansas	88-0469	New Mexico	TN00003
California	01157CA	New York	11742
Colorado	TN00003	North Carolina	Env375
Conneticut	PH-0197	North Carolina [1]	DW21704
Florida	E87487	North Carolina [2]	41
Georgia	NELAP	North Dakota	R-140
Georgia [1]	923	Ohio–VAP	CL0069
Idaho	TN00003	Oklahoma	9915
Illinois	200008	Oregon	TN200002
Indiana	C-TN-01	Pennsylvania	68-02979
Iowa	364	Rhode Island	221
Kansas	E-10277	South Carolina	84004
Kentucky [1]	90010	South Dakota	n/a
Kentucky [2]	16	Tennessee [1 4]	2006
Louisiana	AI30792	Texas	T 104704245-07-TX
Maine	TN0002	Texas [5]	LAB0152
Maryland	324	Utah	6157585858
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	109
Minnesota	047-999-395	Washington	C1915
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA
Nebraska	NE-OS-15-05		

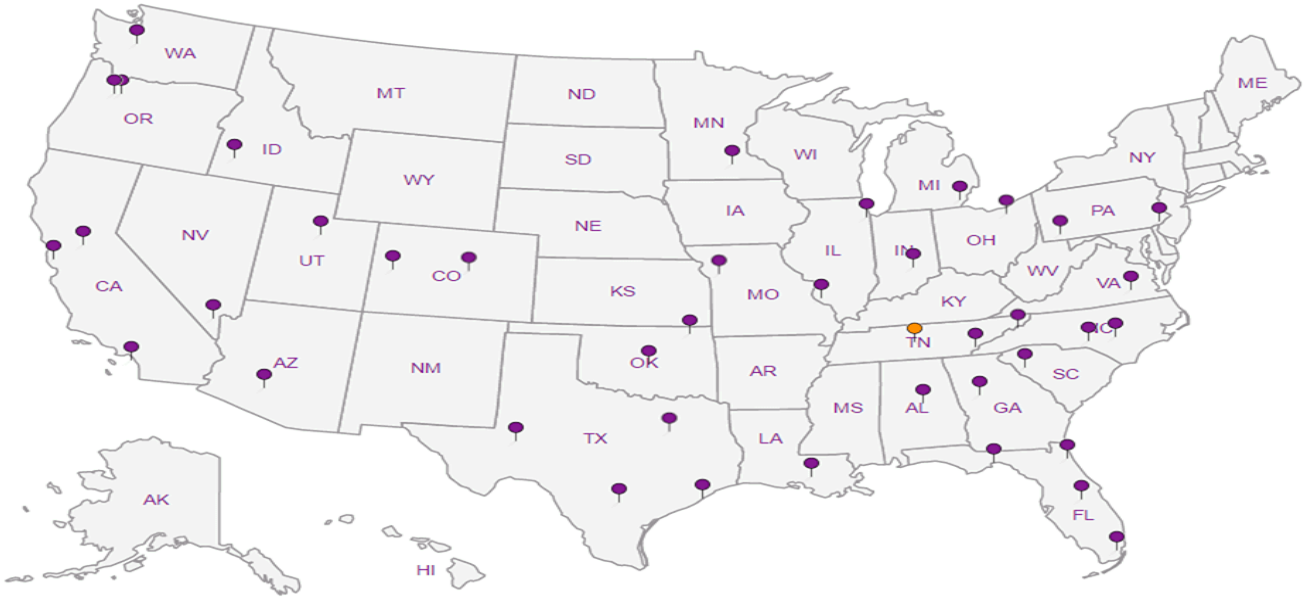
Third Party & Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	S-67674
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [n/a] Accreditation not applicable

Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. **ESC Lab Sciences performs all testing at our central laboratory.**



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950 West Valley Rd., Ste. 2802
Wayne, PA 19087

Pres Chk

Report to: ~~Mr. Richard Badis~~ KYLE SNYDER

Email To: ~~richard.badis@rsconservices.com~~ kyle.snyder@rsconservices.com

Project Description: **Elmira, NY**

City/State Collected: ELMIRA/NY

Phone: ~~484-367-5400~~
Fax: 713-906-2590

Client Project # 23925

Lab Project # REMCONWPA-060117S

Collected by (print): KYLE SNYDER

Site/Facility ID #

P.O. # 23925-0007

Collected by (signature):

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
X Three Day

Quote #

Date Results Needed

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	SV8081/8082,SV8270D 4ozClr-NoPres	SV8270D 4ozClr-NoPres	TS 2ozClr-NoPres	V8260C 40ml/NaHSO4/Syr/MeOH	VOC Screen 2ozClr-NoPres	Remarks	Sample # (lab only)
BREWERS_PIT_1		SS		6-14-17		6	X		X	X	X		-01
BREWERS_PIT_2		SS		6-14-17		6	X		X	X	X		02
BREWERS_PIT_3		SS		6-14-17		6		X	X	X	X		03
BREWERS_PIT_4		SS		6-14-17		6		X	X	X	X		04
BREWERS_PIT_5		SS		6-14-17		6		X	X	X	X		05
BREWERS_PIT_6		SS		6-14-17		6		X	X	X	X		06
BREWERS_PIT_7		SS		6-14-17		6		X	X	X	X		07

Analysis / Container / Preservative

Chain of Custody Page ___ of ___

ESC LABORATORY SCIENCES
YOUR LAB OF CHOICE
12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# L916338
D153

Acctnum: REMCONWPA
Template: T124625
Prelogin: P606085
TSR: 364 - T. Alan Harvill
PB:
Shipped Via: FedEX Priority

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx X Courier __ _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
	6-14-17	5:45PM	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)

Trip Blank Received: Yes / No
HCL / MeoH
TBR

Temp: 5.3 WT °C Bottles Received: 42

Date: 6-15-17 Time: 845

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

ANALYTICAL REPORT

June 23, 2017

Remedial Construction Services, L.P.

Sample Delivery Group:	L917680
Samples Received:	06/15/2017
Project Number:	23925
Description:	Elmira, NY

Report To:

Mr. John Geary
950 West Valley Rd.
Suite 2802
Wayne, PA 19087

Entire Report Reviewed By:

T. Alan Harvill
Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



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BREWERS_PIT_1 L917680-01 Solid

Collected by: Kyle Snyder
Collected date/time: 06/14/17 00:00
Received date/time: 06/15/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Calculated Results	WG991813	1	06/22/17 10:41	06/23/17 10:56	JD
Total Solids by Method 2540 G-2011	WG990357	1	06/17/17 12:08	06/17/17 12:20	KDW
Wet Chemistry by Method 3060A/7196A	WG991554	1	06/22/17 14:16	06/23/17 10:56	MA
Wet Chemistry by Method 9012B	WG991738	1	06/22/17 12:17	06/22/17 18:17	ASK
Mercury by Method 7471A	WG991670	1	06/22/17 14:38	06/23/17 10:38	EL
Metals (ICP) by Method 6010B	WG991813	1	06/22/17 10:41	06/22/17 16:14	JD

BREWERS_PIT_2 L917680-02 Solid

Collected by: Kyle Snyder
Collected date/time: 06/14/17 00:00
Received date/time: 06/15/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Calculated Results	WG991813	1	06/22/17 10:41	06/23/17 10:57	JD
Total Solids by Method 2540 G-2011	WG990405	1	06/19/17 08:35	06/19/17 08:55	KDW
Wet Chemistry by Method 3060A/7196A	WG991554	1	06/22/17 14:16	06/23/17 10:57	MA
Wet Chemistry by Method 9012B	WG991738	1	06/22/17 12:17	06/22/17 18:18	ASK
Mercury by Method 7471A	WG991670	1	06/22/17 14:38	06/23/17 10:40	EL
Metals (ICP) by Method 6010B	WG991813	1	06/22/17 10:41	06/22/17 16:22	JD

BREWERS_PIT_3 L917680-03 Solid

Collected by: Kyle Snyder
Collected date/time: 06/14/17 00:00
Received date/time: 06/15/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Calculated Results	WG991813	1	06/22/17 10:41	06/23/17 10:57	JD
Total Solids by Method 2540 G-2011	WG990405	1	06/19/17 08:35	06/19/17 08:55	KDW
Wet Chemistry by Method 3060A/7196A	WG991554	1	06/22/17 14:16	06/23/17 10:57	MA
Wet Chemistry by Method 9012B	WG991738	1	06/22/17 12:17	06/22/17 18:19	ASK
Mercury by Method 7471A	WG991670	1	06/22/17 14:38	06/23/17 10:43	EL
Metals (ICP) by Method 6010B	WG991813	1	06/22/17 10:41	06/22/17 16:25	JD

BREWERS_PIT_4 L917680-04 Solid

Collected by: Kyle Snyder
Collected date/time: 06/14/17 00:00
Received date/time: 06/15/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Calculated Results	WG991813	1	06/22/17 10:41	06/23/17 10:58	JD
Total Solids by Method 2540 G-2011	WG990405	1	06/19/17 08:35	06/19/17 08:55	KDW
Wet Chemistry by Method 3060A/7196A	WG991554	1	06/22/17 14:16	06/23/17 10:58	MA
Wet Chemistry by Method 9012B	WG991738	1	06/22/17 12:17	06/22/17 18:20	ASK
Mercury by Method 7471A	WG991670	1	06/22/17 14:38	06/23/17 10:45	EL
Metals (ICP) by Method 6010B	WG991813	1	06/22/17 10:41	06/22/17 16:27	JD

BREWERS_PIT_5 L917680-05 Solid

Collected by: Kyle Snyder
Collected date/time: 06/14/17 00:00
Received date/time: 06/15/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Calculated Results	WG991813	1	06/22/17 10:41	06/23/17 10:58	JD
Total Solids by Method 2540 G-2011	WG990405	1	06/19/17 08:35	06/19/17 08:55	KDW
Wet Chemistry by Method 3060A/7196A	WG991554	1	06/22/17 14:16	06/23/17 10:58	MA
Wet Chemistry by Method 9012B	WG991738	1	06/22/17 12:17	06/22/17 18:22	ASK
Mercury by Method 7471A	WG991670	1	06/22/17 14:38	06/23/17 10:52	EL
Metals (ICP) by Method 6010B	WG991813	1	06/22/17 10:41	06/22/17 16:30	JD

BREWERS_PIT_6 L917680-06 Solid

Collected by: Kyle Snyder
Collected date/time: 06/14/17 00:00
Received date/time: 06/15/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Calculated Results	WG991813	1	06/22/17 10:41	06/23/17 10:59	JD
Total Solids by Method 2540 G-2011	WG990405	1	06/19/17 08:35	06/19/17 08:55	KDW
Wet Chemistry by Method 3060A/7196A	WG991554	1	06/22/17 14:16	06/23/17 10:59	MA
Wet Chemistry by Method 9012B	WG991738	1	06/22/17 12:17	06/22/17 18:23	ASK
Mercury by Method 7471A	WG991670	1	06/22/17 14:38	06/23/17 10:55	EL
Metals (ICP) by Method 6010B	WG991813	1	06/22/17 10:41	06/22/17 16:33	JD

BREWERS_PIT_7 L917680-07 Solid

Collected by: Kyle Snyder
Collected date/time: 06/14/17 00:00
Received date/time: 06/15/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Calculated Results	WG991813	1	06/22/17 10:41	06/23/17 11:00	JD
Total Solids by Method 2540 G-2011	WG990406	1	06/19/17 10:09	06/19/17 10:23	KDW
Wet Chemistry by Method 3060A/7196A	WG991554	1	06/22/17 14:16	06/23/17 11:00	MA
Wet Chemistry by Method 9012B	WG991738	1	06/22/17 12:17	06/22/17 18:24	ASK
Mercury by Method 7471A	WG991670	1	06/22/17 14:38	06/23/17 10:57	EL
Metals (ICP) by Method 6010B	WG991813	1	06/22/17 10:41	06/22/17 16:36	JD

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. All MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



T. Alan Harvill
Technical Service Representative

Calculated Results

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chromium,Trivalent	7.11		0.148	1.06	1	06/23/2017 10:56	WG991813

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	94.7		1	06/17/2017 12:20	WG990357

Wet Chemistry by Method 3060A/7196A

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chromium,Hexavalent	U		0.676	2.11	1	06/23/2017 10:56	WG991554

Wet Chemistry by Method 9012B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Cyanide	U		0.0412	0.264	1	06/22/2017 18:17	WG991738

Mercury by Method 7471A

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Mercury	0.00723	J	0.00296	0.0211	1	06/23/2017 10:38	WG991670

Metals (ICP) by Method 6010B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Arsenic	2.38		0.686	2.11	1	06/22/2017 16:14	WG991813
Barium	47.4		0.180	0.528	1	06/22/2017 16:14	WG991813
Beryllium	0.273		0.0739	0.211	1	06/22/2017 16:14	WG991813
Cadmium	U		0.0739	0.528	1	06/22/2017 16:14	WG991813
Chromium	7.11		0.148	1.06	1	06/22/2017 16:14	WG991813
Copper	20.3		0.560	2.11	1	06/22/2017 16:14	WG991813
Lead	8.70		0.201	0.528	1	06/22/2017 16:14	WG991813
Manganese	344		0.127	1.06	1	06/22/2017 16:14	WG991813
Nickel	13.2		0.517	2.11	1	06/22/2017 16:14	WG991813
Silver	U		0.296	1.06	1	06/22/2017 16:14	WG991813
Zinc	62.4		0.623	5.28	1	06/22/2017 16:14	WG991813

Calculated Results

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chromium,Trivalent	8.15		0.150	1.07	1	06/23/2017 10:57	WG991813

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	93.4		1	06/19/2017 08:55	WG990405

Wet Chemistry by Method 3060A/7196A

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chromium,Hexavalent	U		0.685	2.14	1	06/23/2017 10:57	WG991554

Wet Chemistry by Method 9012B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Cyanide	U		0.0418	0.268	1	06/22/2017 18:18	WG991738

Mercury by Method 7471A

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Mercury	0.00672	J	0.00300	0.0214	1	06/23/2017 10:40	WG991670

Metals (ICP) by Method 6010B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Arsenic	1.74	J	0.696	2.14	1	06/22/2017 16:22	WG991813
Barium	52.7		0.182	0.535	1	06/22/2017 16:22	WG991813
Beryllium	0.268		0.0749	0.214	1	06/22/2017 16:22	WG991813
Cadmium	U		0.0749	0.535	1	06/22/2017 16:22	WG991813
Chromium	8.15		0.150	1.07	1	06/22/2017 16:22	WG991813
Copper	23.7		0.567	2.14	1	06/22/2017 16:22	WG991813
Lead	7.22		0.203	0.535	1	06/22/2017 16:22	WG991813
Manganese	359		0.128	1.07	1	06/22/2017 16:22	WG991813
Nickel	15.6		0.525	2.14	1	06/22/2017 16:22	WG991813
Silver	U		0.300	1.07	1	06/22/2017 16:22	WG991813
Zinc	64.3		0.632	5.35	1	06/22/2017 16:22	WG991813

Calculated Results

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chromium,Trivalent	5.46		0.147	1.05	1	06/23/2017 10:57	WG991813

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	95.2		1	06/19/2017 08:55	WG990405

Wet Chemistry by Method 3060A/7196A

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chromium,Hexavalent	U		0.672	2.10	1	06/23/2017 10:57	WG991554

Wet Chemistry by Method 9012B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Cyanide	U		0.0410	0.263	1	06/22/2017 18:19	WG991738

Mercury by Method 7471A

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Mercury	0.00543	J	0.00294	0.0210	1	06/23/2017 10:43	WG991670

Metals (ICP) by Method 6010B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Arsenic	0.927	J	0.683	2.10	1	06/22/2017 16:25	WG991813
Barium	37.3		0.179	0.525	1	06/22/2017 16:25	WG991813
Beryllium	0.210	J	0.0735	0.210	1	06/22/2017 16:25	WG991813
Cadmium	U		0.0735	0.525	1	06/22/2017 16:25	WG991813
Chromium	5.46		0.147	1.05	1	06/22/2017 16:25	WG991813
Copper	15.5		0.557	2.10	1	06/22/2017 16:25	WG991813
Lead	5.20		0.200	0.525	1	06/22/2017 16:25	WG991813
Manganese	237		0.126	1.05	1	06/22/2017 16:25	WG991813
Nickel	9.99		0.515	2.10	1	06/22/2017 16:25	WG991813
Silver	U		0.294	1.05	1	06/22/2017 16:25	WG991813
Zinc	45.5		0.620	5.25	1	06/22/2017 16:25	WG991813

Calculated Results

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chromium,Trivalent	7.74		0.146	1.04	1	06/23/2017 10:58	WG991813

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	95.8		1	06/19/2017 08:55	WG990405

Wet Chemistry by Method 3060A/7196A

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chromium,Hexavalent	U		0.668	2.09	1	06/23/2017 10:58	WG991554

Wet Chemistry by Method 9012B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Cyanide	U		0.0407	0.261	1	06/22/2017 18:20	WG991738

Mercury by Method 7471A

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Mercury	0.00793	J	0.00292	0.0209	1	06/23/2017 10:45	WG991670

Metals (ICP) by Method 6010B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Arsenic	2.26		0.678	2.09	1	06/22/2017 16:27	WG991813
Barium	53.3		0.177	0.522	1	06/22/2017 16:27	WG991813
Beryllium	0.279		0.0731	0.209	1	06/22/2017 16:27	WG991813
Cadmium	U		0.0731	0.522	1	06/22/2017 16:27	WG991813
Chromium	7.74		0.146	1.04	1	06/22/2017 16:27	WG991813
Copper	20.0		0.553	2.09	1	06/22/2017 16:27	WG991813
Lead	7.96		0.198	0.522	1	06/22/2017 16:27	WG991813
Manganese	339		0.125	1.04	1	06/22/2017 16:27	WG991813
Nickel	14.6		0.511	2.09	1	06/22/2017 16:27	WG991813
Silver	U		0.292	1.04	1	06/22/2017 16:27	WG991813
Zinc	65.4		0.616	5.22	1	06/22/2017 16:27	WG991813

Calculated Results

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chromium,Trivalent	7.65		0.148	1.06	1	06/23/2017 10:58	WG991813

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	94.4		1	06/19/2017 08:55	WG990405

Wet Chemistry by Method 3060A/7196A

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chromium,Hexavalent	U		0.678	2.12	1	06/23/2017 10:58	WG991554

Wet Chemistry by Method 9012B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Cyanide	U		0.0413	0.265	1	06/22/2017 18:22	WG991738

Mercury by Method 7471A

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Mercury	0.0102	J	0.00297	0.0212	1	06/23/2017 10:52	WG991670

Metals (ICP) by Method 6010B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Arsenic	2.69		0.689	2.12	1	06/22/2017 16:30	WG991813
Barium	47.3		0.180	0.530	1	06/22/2017 16:30	WG991813
Beryllium	0.281		0.0742	0.212	1	06/22/2017 16:30	WG991813
Cadmium	U		0.0742	0.530	1	06/22/2017 16:30	WG991813
Chromium	7.65		0.148	1.06	1	06/22/2017 16:30	WG991813
Copper	19.0		0.561	2.12	1	06/22/2017 16:30	WG991813
Lead	8.42		0.201	0.530	1	06/22/2017 16:30	WG991813
Manganese	409		0.127	1.06	1	06/22/2017 16:30	WG991813
Nickel	13.3		0.519	2.12	1	06/22/2017 16:30	WG991813
Silver	U		0.297	1.06	1	06/22/2017 16:30	WG991813
Zinc	55.1		0.625	5.30	1	06/22/2017 16:30	WG991813

Calculated Results

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chromium,Trivalent	7.17		0.146	1.04	1	06/23/2017 10:59	WG991813

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	96.0		1	06/19/2017 08:55	WG990405

Wet Chemistry by Method 3060A/7196A

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chromium,Hexavalent	U		0.667	2.08	1	06/23/2017 10:59	WG991554

Wet Chemistry by Method 9012B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Cyanide	U		0.0406	0.260	1	06/22/2017 18:23	WG991738

Mercury by Method 7471A

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Mercury	0.00723	J	0.00292	0.0208	1	06/23/2017 10:55	WG991670

Metals (ICP) by Method 6010B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Arsenic	2.76		0.677	2.08	1	06/22/2017 16:33	WG991813
Barium	47.7		0.177	0.521	1	06/22/2017 16:33	WG991813
Beryllium	0.248		0.0729	0.208	1	06/22/2017 16:33	WG991813
Cadmium	0.0816	J	0.0729	0.521	1	06/22/2017 16:33	WG991813
Chromium	7.17		0.146	1.04	1	06/22/2017 16:33	WG991813
Copper	20.3		0.552	2.08	1	06/22/2017 16:33	WG991813
Lead	6.85		0.198	0.521	1	06/22/2017 16:33	WG991813
Manganese	401		0.125	1.04	1	06/22/2017 16:33	WG991813
Nickel	13.3		0.510	2.08	1	06/22/2017 16:33	WG991813
Silver	U		0.292	1.04	1	06/22/2017 16:33	WG991813
Zinc	62.8		0.615	5.21	1	06/22/2017 16:33	WG991813

Calculated Results

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chromium,Trivalent	7.32		0.147	1.05	1	06/23/2017 11:00	WG991813

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	95.5		1	06/19/2017 10:23	WG990406

Wet Chemistry by Method 3060A/7196A

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chromium,Hexavalent	U		0.670	2.09	1	06/23/2017 11:00	WG991554

Wet Chemistry by Method 9012B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Cyanide	0.0497	J	0.0408	0.262	1	06/22/2017 18:24	WG991738

Mercury by Method 7471A

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Mercury	0.00569	J	0.00293	0.0209	1	06/23/2017 10:57	WG991670

Metals (ICP) by Method 6010B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Arsenic	3.96		0.681	2.09	1	06/22/2017 16:36	WG991813
Barium	44.6		0.178	0.524	1	06/22/2017 16:36	WG991813
Beryllium	0.218		0.0733	0.209	1	06/22/2017 16:36	WG991813
Cadmium	U		0.0733	0.524	1	06/22/2017 16:36	WG991813
Chromium	7.32		0.147	1.05	1	06/22/2017 16:36	WG991813
Copper	16.5		0.555	2.09	1	06/22/2017 16:36	WG991813
Lead	9.15		0.199	0.524	1	06/22/2017 16:36	WG991813
Manganese	327		0.126	1.05	1	06/22/2017 16:36	WG991813
Nickel	13.1		0.513	2.09	1	06/22/2017 16:36	WG991813
Silver	U		0.293	1.05	1	06/22/2017 16:36	WG991813
Zinc	55.7		0.618	5.24	1	06/22/2017 16:36	WG991813

Method Blank (MB)

(MB) R3226648-1 06/17/17 12:20

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.000300			

L916338-01 Original Sample (OS) • Duplicate (DUP)

(OS) L916338-01 06/17/17 12:20 • (DUP) R3226648-3 06/17/17 12:20

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	94.7	94.7	1	0.0561		5

Laboratory Control Sample (LCS)

(LCS) R3226648-2 06/17/17 12:20

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3226908-1 06/19/17 08:55

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.000400			

L916338-02 Original Sample (OS) • Duplicate (DUP)

(OS) L916338-02 06/19/17 08:55 • (DUP) R3226908-3 06/19/17 08:55

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	93.5	93.0	1	0.469		5

Laboratory Control Sample (LCS)

(LCS) R3226908-2 06/19/17 08:55

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3226916-1 06/19/17 10:23

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.000600			

L916341-02 Original Sample (OS) • Duplicate (DUP)

(OS) L916341-02 06/19/17 10:23 • (DUP) R3226916-3 06/19/17 10:23

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	73.1	73.2	1	0.124		5

Laboratory Control Sample (LCS)

(LCS) R3226916-2 06/19/17 10:23

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3228181-1 06/23/17 10:25

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Chromium,Hexavalent	U		0.64	2.00

L917491-03 Original Sample (OS) • Duplicate (DUP)

(OS) L917491-03 06/23/17 10:45 • (DUP) R3228181-4 06/23/17 10:46

Analyte	Original Result mg/kg	DUP Result mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chromium,Hexavalent	U	0.000	1	0		20

L917680-07 Original Sample (OS) • Duplicate (DUP)

(OS) L917680-07 06/23/17 11:00 • (DUP) R3228181-9 06/23/17 11:00

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chromium,Hexavalent	U	0	1	0		20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3228181-2 06/23/17 10:26 • (LCSD) R3228181-3 06/23/17 10:26

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Chromium,Hexavalent	56.9	52.4	52.6	92	92	80-120			0	20

L917491-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L917491-03 06/23/17 10:45 • (MS) R3228181-5 06/23/17 10:47 • (MSD) R3228181-6 06/23/17 10:47

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chromium,Hexavalent	20.0	U	15.3	15.3	76	77	1	75-125			0	20

Method Blank (MB)

(MB) R3228011-1 06/22/17 17:51

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Cyanide	U		0.039	0.250

L917680-04 Original Sample (OS) • Duplicate (DUP)

(OS) L917680-04 06/22/17 18:20 • (DUP) R3228011-4 06/22/17 18:21

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Cyanide	U	0	1	0		20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3228011-2 06/22/17 17:52 • (LCSD) R3228011-3 06/22/17 17:53

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Cyanide	2.50	2.62	2.60	105	104	50-150			1	20

Method Blank (MB)

(MB) R3228195-1 06/23/17 09:56

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/kg		mg/kg	mg/kg
Mercury	U		0.0028	0.0200

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3228195-2 06/23/17 09:58 • (LCSD) R3228195-3 06/23/17 10:00

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/kg	mg/kg	mg/kg	%	%	%			%	%
Mercury	0.300	0.273	0.296	91	99	80-120			8	20

L917542-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L917542-08 06/23/17 10:03 • (MS) R3228195-4 06/23/17 10:05 • (MSD) R3228195-5 06/23/17 10:07

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Mercury	0.300	0.0409	0.342	0.342	100	100	1	75-125			0	20

Method Blank (MB)

(MB) R3228030-1 06/22/17 15:16

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Arsenic	U		0.65	2.00
Barium	U		0.17	0.500
Beryllium	U		0.07	0.200
Cadmium	U		0.07	0.500
Chromium	U		0.14	1.00
Copper	U		0.53	2.00
Lead	U		0.19	0.500
Manganese	U		0.12	1.00
Nickel	U		0.49	2.00
Silver	U		0.28	1.00
Zinc	U		0.59	5.00

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3228030-2 06/22/17 15:19 • (LCSD) R3228030-3 06/22/17 15:22

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Arsenic	100	96.8	94.4	97	94	80-120			3	20
Barium	100	105	103	105	103	80-120			2	20
Beryllium	100	106	104	106	104	80-120			1	20
Cadmium	100	99.8	97.9	100	98	80-120			2	20
Chromium	100	101	99.6	101	100	80-120			1	20
Copper	100	100	98.7	100	99	80-120			2	20
Lead	100	99.9	98.2	100	98	80-120			2	20
Manganese	100	98.5	97.1	98	97	80-120			1	20
Nickel	100	101	99.7	101	100	80-120			2	20
Silver	20.0	18.2	17.9	91	90	80-120			2	20
Zinc	100	100	98.9	100	99	80-120			2	20

L916920-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L916920-01 06/22/17 15:24 • (MS) R3228030-6 06/22/17 15:32 • (MSD) R3228030-7 06/22/17 15:35

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic	100	7.90	106	102	98	94	1	75-125			3	20
Barium	100	5790	6640	6340	853	548	1	75-125	E V	E V	5	20
Beryllium	100	0.650	102	102	101	101	1	75-125			0	20
Cadmium	100	ND	99.7	99.7	100	100	1	75-125			0	20
Chromium	100	16.3	107	106	91	89	1	75-125			2	20

L916920-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L916920-01 06/22/17 15:24 • (MS) R3228030-6 06/22/17 15:32 • (MSD) R3228030-7 06/22/17 15:35

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Copper	100	19.3	120	116	100	97	1	75-125			3	20
Lead	100	19.0	120	120	101	101	1	75-125			0	20
Manganese	100	266	360	325	93	59	1	75-125		J6	10	20
Nickel	100	15.1	118	115	103	100	1	75-125			2	20
Silver	20.0	ND	18.5	18.6	92	93	1	75-125			1	20
Zinc	100	69.9	162	160	92	90	1	75-125			1	20

Abbreviations and Definitions

SDG	Sample Delivery Group.
MDL	Method Detection Limit.
MDL (dry)	Method Detection Limit.
RDL (dry)	Reported Detection Limit.
RDL	Reported Detection Limit.
U	Not detected at the Reporting Limit (or MDL where applicable).
RPD	Relative Percent Difference.
(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Rec.	Recovery.

Qualifier	Description
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
V	The sample concentration is too high to evaluate accurate spike recoveries.

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***** Not all certifications held by the laboratory are applicable to the results reported in the attached report.

State Accreditations

Alabama	40660	Nevada	TN-03-2002-34
Alaska	UST-080	New Hampshire	2975
Arizona	AZ0612	New Jersey–NELAP	TN002
Arkansas	88-0469	New Mexico	TN00003
California	01157CA	New York	11742
Colorado	TN00003	North Carolina	Env375
Conneticut	PH-0197	North Carolina [1]	DW21704
Florida	E87487	North Carolina [2]	41
Georgia	NELAP	North Dakota	R-140
Georgia [1]	923	Ohio–VAP	CL0069
Idaho	TN00003	Oklahoma	9915
Illinois	200008	Oregon	TN200002
Indiana	C-TN-01	Pennsylvania	68-02979
Iowa	364	Rhode Island	221
Kansas	E-10277	South Carolina	84004
Kentucky [1]	90010	South Dakota	n/a
Kentucky [2]	16	Tennessee [1 4]	2006
Louisiana	AI30792	Texas	T 104704245-07-TX
Maine	TN0002	Texas [5]	LAB0152
Maryland	324	Utah	6157585858
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	109
Minnesota	047-999-395	Washington	C1915
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA
Nebraska	NE-OS-15-05		

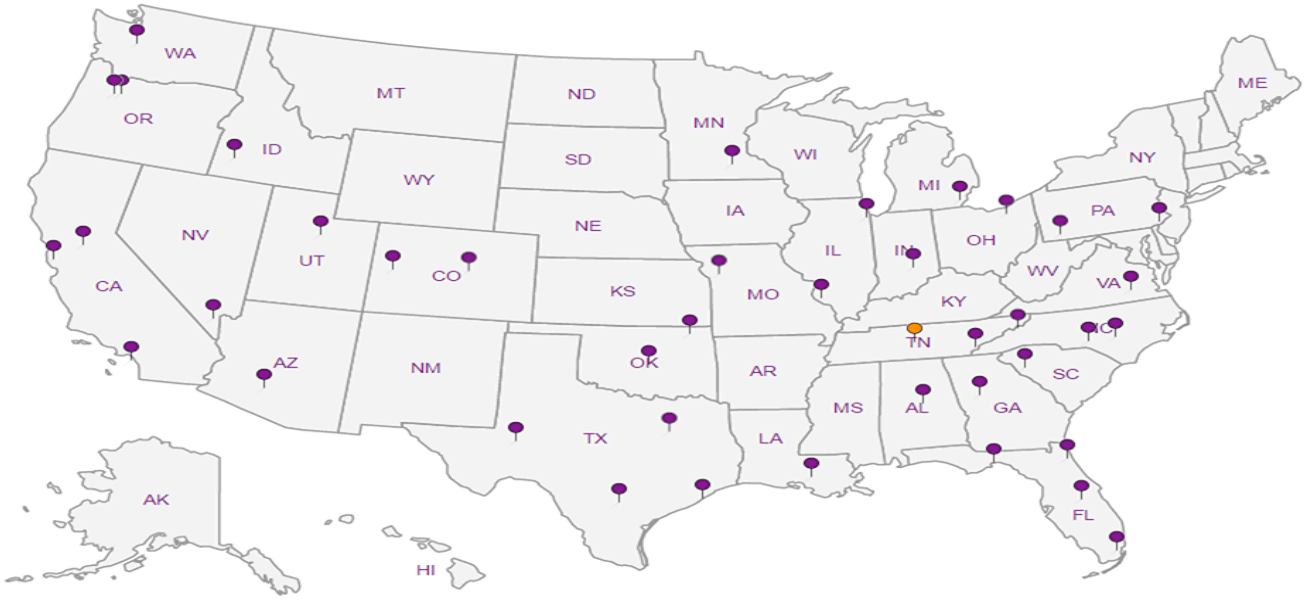
Third Party & Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	S-67674
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [n/a] Accreditation not applicable

Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. **ESC Lab Sciences performs all testing at our central laboratory.**



Remedial Construction Services, L.P.

950 West Valley Rd.
Suite 2802
Wayne PA 19087

Billing Information:
Accounts Payable
950 West Valley Rd., Ste. 2802
Wayne, PA 19087

Pres Chk

Report to: ~~Mr. Richard Bada~~ KYLE SNYDER

Email To: ~~richard.bada@remconservices.com~~ kyle.snyder@remconservices.com

Project Description: Elmira, NY

City/State Collected: ELMIRA / NY

Phone: ~~484-307-5400~~
Fax: 713-906-2590

Client Project # 23925

Lab Project # REMCONWPA-0601175

Collected by (print): Kyle Snyder

Site/Facility ID #

P.O. # 23925-0007

Collected by (signature): Kyle Snyder
Immediately
Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
X Three Day

Quote #

Date Results Needed

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	SV8081/8082,SV8270D 4ozClr-NoPres	SV8270D 4ozClr-NoPres	TS 2ozClr-NoPres	V8260C 40ml/NaHSO4/Syr/MeOH	VOC Screen 2ozClr-NoPres					Remarks	Sample # (lab only)
BREWERS_PIT_1		SS		6-14-17		6	X		X	X	X						-01 ~~01~~
BREWERS_PIT_2		SS		6-14-17		6	X		X	X	X						-02 ~~02~~
BREWERS_PIT_3		SS		6-14-17		6		X	X	X	X						-03 ~~03~~
BREWERS_PIT_4		SS		6-14-17		6		X	X	X	X						-04 ~~04~~
BREWERS_PIT_5		SS		6-14-17		6		X	X	X	X						-05 ~~05~~
BREWERS_PIT_6		SS		6-14-17		6		X	X	X	X						-06 ~~06~~
BREWERS_PIT_7		SS		6-14-17		6		X	X	X	X						-07 ~~07~~

Analysis / Container / Preservative

Chain of Custody Page ___ of ___

ESC LAB SCIENCES

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# L916338

D153 L917680

Acctnum: REMCONWPA
Template: T124625
Prelogin: P606085
TSR: 364 - T. Alan Harvill
PB:
Shipped Via: FedEX Priority

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx X Courier __ _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: NP __Y __N
COC Signed/Accurate: ✓Y __N
Bottles arrive intact: ✓Y __N
Correct bottles used: ✓Y __N
Sufficient volume sent: ✓Y __N
If Applicable
VOA Zero Headspace: __Y __N
Preservation Correct/Checked: __Y __N

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
Kyle Snyder	6-19-17	5:45PM	
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)

Trip Blank Received: (Yes) No
HCL / MeoH
TBR

Temp: 5.3 WT °C Bottles Received: 42

Date: 6-15-17 Time: 845

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

L917680

Troy Dunlap

From: Alan Harvill
Sent: Wednesday, June 21, 2017 4:36 PM
To: Login; Metals; Metals Prep; Wet Lab
Subject: L916338 REMCONWPA - RUSH RELOG

Importance: High

Please relog L916338-01 thru -07 for CR6, CR3, Cn, HG, ASICP, BAICP, BEICP, CDICP, CUICP, PBICP, MNICP, NIICP, AGICP, and ZNICP. Log for 2 day TAT due Friday.

Thanks,

Alan Harvill
Technical Service Representative
Phone: 615-773-9787
Toll Free: 1-800-767-5859 ext:9787
Email: *aharvill@esclabsciences.com*

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THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pittsburgh
301 Alpha Drive
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Pittsburgh, PA 15238
Tel: (412)963-7058

TestAmerica Job ID: 180-66369-1
Client Project/Site: Former Sperry Remington Site - North

For:
Geosyntec Consultants, Inc.
10211 Wincopin Circle
4'th Floor
Columbia, Maryland 21044

Attn: Mr. Aron Krasnopoler

Authorized for release by:
5/18/2017 5:36:04 PM

David Dunlap, Senior Project Manager
(412)963-2432
david.dunlap@testamericainc.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Job ID: 180-66369-1

Laboratory: TestAmerica Pittsburgh

Narrative

Job Narrative
180-66369-1

Receipt
The samples were received on 5/17/2017 9:05 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 0.6º C, 1.5º C and 2.9º C.

GC Semi VOA
Method(s) 8082A: The following samples were diluted to bring the concentration of target analytes within the calibration range: SSHS-B792-SUB-8-10 (180-66369-1), SSHS-B792-SUB-12-14 (180-66369-3), SSHS-B791-SUB-2-4 (180-66369-5), SSHS-B796-SUB-4-6 (180-66369-7), PS-FD-2 (180-66369-12), SSHS-B782-SUB-2-4 (180-66369-16), SSHS-B804-SUB-10-12 (180-66369-28), SSHS-B804-SUB-12-14 (180-66369-29), SSHS-B811-SUB-12-14 (180-66369-32), SSHS-B797-SUB-4-6 (180-66369-43), SSHS-B797-SUB-6-8 (180-66369-44), SSHS-B794-SUB-4-6 (180-66369-46) and its matrix spikes, PS-FD-5 (180-66369-47), SSHS-B812-SUB-12-14 (180-66369-53), SSHS-B793-SUB-4-6 (180-66369-63) and its matrix spikes, and SSHS-B793-SUB-6-8 (180-66369-64). Several samples had the surrogates diluted out. The matrix spikes of sample SSHS-B793-SUB-4-6 (180-66369-63) should be considered diluted out. Elevated reporting limits (RLs) are provided.

Method 8082A: The matrix spike and matrix spike duplicate of sample SSHS-B794-SUB-4-6 (180-66369-46) recovered above the control limits for aroclor 1016. The recovery of the laboratory control sample was within the control limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Definitions/Glossary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North

TestAmerica Job ID: 180-66369-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
X	Surrogate is outside control limits
F1	MS and/or MSD Recovery is outside acceptance limits.
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc. TestAmerica Job ID: 180-66369-1
Project/Site: Former Sperry Remington Site - North

Laboratory: TestAmerica Pittsburgh

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	11182	03-31-18

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
2540G		Solid	Percent Moisture
2540G		Solid	Percent Solids

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North

TestAmerica Job ID: 180-66369-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-66369-1	SSHS-B792-SUB-8-10	Solid	05/16/17 07:45	05/17/17 09:05
180-66369-2	SSHS-B792-SUB-10-12	Solid	05/16/17 07:45	05/17/17 09:05
180-66369-3	SSHS-B792-SUB-12-14	Solid	05/16/17 07:50	05/17/17 09:05
180-66369-5	SSHS-B791-SUB-2-4	Solid	05/16/17 08:10	05/17/17 09:05
180-66369-7	SSHS-B796-SUB-4-6	Solid	05/16/17 08:50	05/17/17 09:05
180-66369-8	SSHS-B796-SUB-6-8	Solid	05/16/17 08:50	05/17/17 09:05
180-66369-9	SSHS-B795-SUB-2-4	Solid	05/16/17 09:15	05/17/17 09:05
180-66369-10	SSHS-B795-SUB-4-6	Solid	05/16/17 09:20	05/17/17 09:05
180-66369-11	SSHS-B795-SUB-6-8	Solid	05/16/17 09:20	05/17/17 09:05
180-66369-12	PS-FD-2	Solid	05/16/17 00:00	05/17/17 09:05
180-66369-13	SSHS-B795-SUB-8-10	Solid	05/16/17 09:25	05/17/17 09:05
180-66369-16	SSHS-B782-SUB-2-4	Solid	05/16/17 09:45	05/17/17 09:05
180-66369-18	SSHS-B803-SUB-4-6	Solid	05/16/17 10:10	05/17/17 09:05
180-66369-19	SSHS-B803-SUB-6-8	Solid	05/16/17 10:10	05/17/17 09:05
180-66369-24	PS-FD-3	Solid	05/16/17 00:00	05/17/17 09:05
180-66369-25	SSHS-B804-SUB-4-6	Solid	05/16/17 11:05	05/17/17 09:05
180-66369-27	SSHS-B804-SUB-8-10	Solid	05/16/17 11:10	05/17/17 09:05
180-66369-28	SSHS-B804-SUB-10-12	Solid	05/16/17 11:10	05/17/17 09:05
180-66369-29	SSHS-B804-SUB-12-14	Solid	05/16/17 11:15	05/17/17 09:05
180-66369-32	SSHS-B811-SUB-12-14	Solid	05/16/17 11:50	05/17/17 09:05
180-66369-33	SSHS-B798-SUB-2-4	Solid	05/16/17 12:05	05/17/17 09:05
180-66369-35	SSHS-B798-SUB-8-10	Solid	05/16/17 12:15	05/17/17 09:05
180-66369-36	PS-FD-4	Solid	05/16/17 00:00	05/17/17 09:05
180-66369-37	SSHS-B798-SUB-10-12	Solid	05/16/17 12:15	05/17/17 09:05
180-66369-43	SSHS-B797-SUB-4-6	Solid	05/16/17 15:05	05/17/17 09:05
180-66369-44	SSHS-B797-SUB-6-8	Solid	05/16/17 15:05	05/17/17 09:05
180-66369-45	SSHS-B794-SUB-2-4	Solid	05/16/17 15:20	05/17/17 09:05
180-66369-46	SSHS-B794-SUB-4-6	Solid	05/16/17 15:25	05/17/17 09:05
180-66369-47	PS-FD-5	Solid	05/16/17 00:00	05/17/17 09:05
180-66369-48	PS-FD-6	Solid	05/16/17 00:00	05/17/17 09:05
180-66369-49	SSHS-B794-SUB-6-8	Solid	05/16/17 15:25	05/17/17 09:05
180-66369-51	SSHS-B812-SUB-8-10	Solid	05/15/17 13:50	05/17/17 09:05
180-66369-53	SSHS-B812-SUB-12-14	Solid	05/15/17 13:55	05/17/17 09:05
180-66369-57	SSHS-B807-SUB-8-10	Solid	05/15/17 14:20	05/17/17 09:05
180-66369-61	SSHS-B787-SUB-8-10	Solid	05/15/17 15:25	05/17/17 09:05
180-66369-62	PS-FD-1	Solid	05/15/17 00:00	05/17/17 09:05
180-66369-63	SSHS-B793-SUB-4-6	Solid	05/15/17 15:50	05/17/17 09:05
180-66369-64	SSHS-B793-SUB-6-8	Solid	05/15/17 15:50	05/17/17 09:05

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North

TestAmerica Job ID: 180-66369-1

Method	Method Description	Protocol	Laboratory
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL PIT
2540G	SM 2540G	SM22	TAL PIT

Protocol References:

SM22 = SM22

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North

TestAmerica Job ID: 180-66369-1

Client Sample ID: SSHS-B792-SUB-8-10
Lab Sample ID: 180-66369-1
Date Collected: 05/16/17 07:45
Matrix: Solid
Date Received: 05/17/17 09:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			211469	05/17/17 14:15	JJZ	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B792-SUB-8-10
Lab Sample ID: 180-66369-1
Date Collected: 05/16/17 07:45
Matrix: Solid
Date Received: 05/17/17 09:05
Percent Solids: 90.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	211476	05/17/17 14:59	MAL	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	211504	05/17/17 18:36	CMR	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	211506	05/17/17 18:38	CMR	TAL PIT
Total/NA	Analysis	8082A		100			211502	05/18/17 10:24	JMO	TAL PIT
	Instrument ID: CHGC16									

Client Sample ID: SSHS-B792-SUB-10-12
Lab Sample ID: 180-66369-2
Date Collected: 05/16/17 07:45
Matrix: Solid
Date Received: 05/17/17 09:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			211469	05/17/17 14:15	JJZ	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B792-SUB-10-12
Lab Sample ID: 180-66369-2
Date Collected: 05/16/17 07:45
Matrix: Solid
Date Received: 05/17/17 09:05
Percent Solids: 82.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	211476	05/17/17 14:59	MAL	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	211504	05/17/17 18:36	CMR	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	211506	05/17/17 18:38	CMR	TAL PIT
Total/NA	Analysis	8082A		1			211502	05/17/17 21:29	JMO	TAL PIT
	Instrument ID: CHGC16									

Client Sample ID: SSHS-B792-SUB-12-14
Lab Sample ID: 180-66369-3
Date Collected: 05/16/17 07:50
Matrix: Solid
Date Received: 05/17/17 09:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			211469	05/17/17 14:15	JJZ	TAL PIT
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North

TestAmerica Job ID: 180-66369-1

Client Sample ID: SSHS-B792-SUB-12-14
Lab Sample ID: 180-66369-3
Date Collected: 05/16/17 07:50
Matrix: Solid
Date Received: 05/17/17 09:05
Percent Solids: 77.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	211476	05/17/17 14:59	MAL	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	211504	05/17/17 18:36	CMR	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	211506	05/17/17 18:38	CMR	TAL PIT
Total/NA	Analysis	8082A		50			211502	05/18/17 10:45	JMO	TAL PIT
	Instrument ID: CHGC16									

Client Sample ID: SSHS-B791-SUB-2-4
Lab Sample ID: 180-66369-5
Date Collected: 05/16/17 08:10
Matrix: Solid
Date Received: 05/17/17 09:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			211469	05/17/17 14:15	JJZ	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B791-SUB-2-4
Lab Sample ID: 180-66369-5
Date Collected: 05/16/17 08:10
Matrix: Solid
Date Received: 05/17/17 09:05
Percent Solids: 89.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	211476	05/17/17 14:59	MAL	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	211504	05/17/17 18:36	CMR	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	211506	05/17/17 18:38	CMR	TAL PIT
Total/NA	Analysis	8082A		10			211502	05/18/17 11:47	JMO	TAL PIT
	Instrument ID: CHGC16									

Client Sample ID: SSHS-B796-SUB-4-6
Lab Sample ID: 180-66369-7
Date Collected: 05/16/17 08:50
Matrix: Solid
Date Received: 05/17/17 09:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			211469	05/17/17 14:15	JJZ	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B796-SUB-4-6
Lab Sample ID: 180-66369-7
Date Collected: 05/16/17 08:50
Matrix: Solid
Date Received: 05/17/17 09:05
Percent Solids: 87.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	211476	05/17/17 14:59	MAL	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	211504	05/17/17 18:36	CMR	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	211506	05/17/17 18:38	CMR	TAL PIT
Total/NA	Analysis	8082A		5			211502	05/18/17 12:08	JMO	TAL PIT
	Instrument ID: CHGC16									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North

TestAmerica Job ID: 180-66369-1

Client Sample ID: SSHS-B796-SUB-6-8
Lab Sample ID: 180-66369-8
Date Collected: 05/16/17 08:50
Matrix: Solid
Date Received: 05/17/17 09:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			211469	05/17/17 14:15	JJZ	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B796-SUB-6-8
Lab Sample ID: 180-66369-8
Date Collected: 05/16/17 08:50
Matrix: Solid
Date Received: 05/17/17 09:05
Percent Solids: 90.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	211476	05/17/17 14:59	MAL	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	211504	05/17/17 18:36	CMR	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	211506	05/17/17 18:38	CMR	TAL PIT
Total/NA	Analysis	8082A		1			211502	05/17/17 22:53	JMO	TAL PIT
	Instrument ID: CHGC16									

Client Sample ID: SSHS-B795-SUB-2-4
Lab Sample ID: 180-66369-9
Date Collected: 05/16/17 09:15
Matrix: Solid
Date Received: 05/17/17 09:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			211469	05/17/17 14:15	JJZ	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B795-SUB-2-4
Lab Sample ID: 180-66369-9
Date Collected: 05/16/17 09:15
Matrix: Solid
Date Received: 05/17/17 09:05
Percent Solids: 86.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	211476	05/17/17 14:59	MAL	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	211504	05/17/17 18:36	CMR	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	211506	05/17/17 18:38	CMR	TAL PIT
Total/NA	Analysis	8082A		1			211502	05/18/17 02:02	JMO	TAL PIT
	Instrument ID: CHGC16									

Client Sample ID: SSHS-B795-SUB-4-6
Lab Sample ID: 180-66369-10
Date Collected: 05/16/17 09:20
Matrix: Solid
Date Received: 05/17/17 09:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			211469	05/17/17 14:15	JJZ	TAL PIT
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North

TestAmerica Job ID: 180-66369-1

Client Sample ID: SSHS-B795-SUB-4-6
Date Collected: 05/16/17 09:20
Date Received: 05/17/17 09:05

Lab Sample ID: 180-66369-10
Matrix: Solid
Percent Solids: 86.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	211476	05/17/17 14:59	MAL	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	211504	05/17/17 18:36	CMR	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	211506	05/17/17 18:38	CMR	TAL PIT
Total/NA	Analysis	8082A		1			211502	05/18/17 02:24	JMO	TAL PIT
	Instrument ID: CHGC16									

Client Sample ID: SSHS-B795-SUB-6-8
Date Collected: 05/16/17 09:20
Date Received: 05/17/17 09:05

Lab Sample ID: 180-66369-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			211469	05/17/17 14:15	JJZ	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B795-SUB-6-8
Date Collected: 05/16/17 09:20
Date Received: 05/17/17 09:05

Lab Sample ID: 180-66369-11
Matrix: Solid
Percent Solids: 85.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	211476	05/17/17 14:59	MAL	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	211504	05/17/17 18:36	CMR	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	211506	05/17/17 18:38	CMR	TAL PIT
Total/NA	Analysis	8082A		1			211502	05/18/17 02:46	JMO	TAL PIT
	Instrument ID: CHGC16									

Client Sample ID: PS-FD-2
Date Collected: 05/16/17 00:00
Date Received: 05/17/17 09:05

Lab Sample ID: 180-66369-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			211469	05/17/17 14:15	JJZ	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: PS-FD-2
Date Collected: 05/16/17 00:00
Date Received: 05/17/17 09:05

Lab Sample ID: 180-66369-12
Matrix: Solid
Percent Solids: 89.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	211476	05/17/17 14:59	MAL	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	211504	05/17/17 18:36	CMR	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	211506	05/17/17 18:38	CMR	TAL PIT
Total/NA	Analysis	8082A		10			211502	05/18/17 12:28	JMO	TAL PIT
	Instrument ID: CHGC16									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North

TestAmerica Job ID: 180-66369-1

Client Sample ID: SSHS-B795-SUB-8-10
Lab Sample ID: 180-66369-13
Date Collected: 05/16/17 09:25
Matrix: Solid
Date Received: 05/17/17 09:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			211469	05/17/17 14:15	JJZ	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B795-SUB-8-10
Lab Sample ID: 180-66369-13
Date Collected: 05/16/17 09:25
Matrix: Solid
Date Received: 05/17/17 09:05
Percent Solids: 89.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	211476	05/17/17 14:59	MAL	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	211504	05/17/17 18:36	CMR	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	211506	05/17/17 18:38	CMR	TAL PIT
Total/NA	Analysis	8082A		1			211502	05/17/17 23:34	JMO	TAL PIT
	Instrument ID: CHGC16									

Client Sample ID: SSHS-B782-SUB-2-4
Lab Sample ID: 180-66369-16
Date Collected: 05/16/17 09:45
Matrix: Solid
Date Received: 05/17/17 09:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			211469	05/17/17 14:15	JJZ	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B782-SUB-2-4
Lab Sample ID: 180-66369-16
Date Collected: 05/16/17 09:45
Matrix: Solid
Date Received: 05/17/17 09:05
Percent Solids: 85.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	211476	05/17/17 14:59	MAL	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	211504	05/17/17 18:36	CMR	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	211506	05/17/17 18:38	CMR	TAL PIT
Total/NA	Analysis	8082A		100			211502	05/18/17 12:48	JMO	TAL PIT
	Instrument ID: CHGC16									

Client Sample ID: SSHS-B803-SUB-4-6
Lab Sample ID: 180-66369-18
Date Collected: 05/16/17 10:10
Matrix: Solid
Date Received: 05/17/17 09:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			211469	05/17/17 14:15	JJZ	TAL PIT
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North

TestAmerica Job ID: 180-66369-1

Client Sample ID: SSHS-B803-SUB-4-6
Lab Sample ID: 180-66369-18
Date Collected: 05/16/17 10:10
Matrix: Solid
Date Received: 05/17/17 09:05
Percent Solids: 89.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	211476	05/17/17 14:59	MAL	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	211504	05/17/17 18:36	CMR	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	211506	05/17/17 18:38	CMR	TAL PIT
Total/NA	Analysis	8082A		1			211502	05/18/17 00:17	JMO	TAL PIT
	Instrument ID: CHGC16									

Client Sample ID: SSHS-B803-SUB-6-8
Lab Sample ID: 180-66369-19
Date Collected: 05/16/17 10:10
Matrix: Solid
Date Received: 05/17/17 09:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			211469	05/17/17 14:15	JJZ	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B803-SUB-6-8
Lab Sample ID: 180-66369-19
Date Collected: 05/16/17 10:10
Matrix: Solid
Date Received: 05/17/17 09:05
Percent Solids: 89.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	211476	05/17/17 14:59	MAL	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	211504	05/17/17 18:36	CMR	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	211506	05/17/17 18:38	CMR	TAL PIT
Total/NA	Analysis	8082A		1			211502	05/18/17 00:38	JMO	TAL PIT
	Instrument ID: CHGC16									

Client Sample ID: PS-FD-3
Lab Sample ID: 180-66369-24
Date Collected: 05/16/17 00:00
Matrix: Solid
Date Received: 05/17/17 09:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			211469	05/17/17 14:15	JJZ	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: PS-FD-3
Lab Sample ID: 180-66369-24
Date Collected: 05/16/17 00:00
Matrix: Solid
Date Received: 05/17/17 09:05
Percent Solids: 86.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	211476	05/17/17 14:59	MAL	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	211504	05/17/17 18:36	CMR	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	211506	05/17/17 18:38	CMR	TAL PIT
Total/NA	Analysis	8082A		1			211502	05/18/17 03:06	JMO	TAL PIT
	Instrument ID: CHGC16									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North

TestAmerica Job ID: 180-66369-1

Client Sample ID: SSHS-B804-SUB-4-6
Lab Sample ID: 180-66369-25
Date Collected: 05/16/17 11:05
Matrix: Solid
Date Received: 05/17/17 09:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			211469	05/17/17 14:15	JJZ	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B804-SUB-4-6
Lab Sample ID: 180-66369-25
Date Collected: 05/16/17 11:05
Matrix: Solid
Date Received: 05/17/17 09:05
Percent Solids: 87.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	211476	05/17/17 14:59	MAL	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	211504	05/17/17 18:36	CMR	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	211506	05/17/17 18:38	CMR	TAL PIT
Total/NA	Analysis	8082A		1			211502	05/18/17 01:41	JMO	TAL PIT
	Instrument ID: CHGC16									

Client Sample ID: SSHS-B804-SUB-8-10
Lab Sample ID: 180-66369-27
Date Collected: 05/16/17 11:10
Matrix: Solid
Date Received: 05/17/17 09:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			211469	05/17/17 14:15	JJZ	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B804-SUB-8-10
Lab Sample ID: 180-66369-27
Date Collected: 05/16/17 11:10
Matrix: Solid
Date Received: 05/17/17 09:05
Percent Solids: 90.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	211476	05/17/17 14:59	MAL	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	211504	05/17/17 18:36	CMR	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	211506	05/17/17 18:38	CMR	TAL PIT
Total/NA	Analysis	8082A		1			211502	05/18/17 04:10	JMO	TAL PIT
	Instrument ID: CHGC16									

Client Sample ID: SSHS-B804-SUB-10-12
Lab Sample ID: 180-66369-28
Date Collected: 05/16/17 11:10
Matrix: Solid
Date Received: 05/17/17 09:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			211469	05/17/17 14:15	JJZ	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B804-SUB-10-12

Lab Sample ID: 180-66369-28
Date Collected: 05/16/17 11:10
Matrix: Solid
Date Received: 05/17/17 09:05
Percent Solids: 90.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	211476	05/17/17 14:59	MAL	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	211504	05/17/17 18:36	CMR	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	211506	05/17/17 18:38	CMR	TAL PIT
Total/NA	Analysis	8082A		500			211502	05/18/17 13:08	JMO	TAL PIT
	Instrument ID: CHGC16									

Client Sample ID: SSHS-B804-SUB-12-14

Lab Sample ID: 180-66369-29
Date Collected: 05/16/17 11:15
Matrix: Solid
Date Received: 05/17/17 09:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			211469	05/17/17 14:15	JJZ	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B804-SUB-12-14

Lab Sample ID: 180-66369-29
Date Collected: 05/16/17 11:15
Matrix: Solid
Date Received: 05/17/17 09:05
Percent Solids: 87.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	211476	05/17/17 14:59	MAL	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	211504	05/17/17 18:36	CMR	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	211506	05/17/17 18:38	CMR	TAL PIT
Total/NA	Analysis	8082A		50			211502	05/18/17 13:29	JMO	TAL PIT
	Instrument ID: CHGC16									

Client Sample ID: SSHS-B811-SUB-12-14

Lab Sample ID: 180-66369-32
Date Collected: 05/16/17 11:50
Matrix: Solid
Date Received: 05/17/17 09:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			211469	05/17/17 14:15	JJZ	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B811-SUB-12-14

Lab Sample ID: 180-66369-32
Date Collected: 05/16/17 11:50
Matrix: Solid
Date Received: 05/17/17 09:05
Percent Solids: 86.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	211476	05/17/17 14:59	MAL	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	211504	05/17/17 18:36	CMR	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	211506	05/17/17 18:38	CMR	TAL PIT
Total/NA	Analysis	8082A		50			211502	05/18/17 13:50	JMO	TAL PIT
	Instrument ID: CHGC16									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North

TestAmerica Job ID: 180-66369-1

Client Sample ID: SSHS-B798-SUB-2-4
Lab Sample ID: 180-66369-33
Date Collected: 05/16/17 12:05
Matrix: Solid
Date Received: 05/17/17 09:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			211471	05/17/17 14:39	JJZ	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B798-SUB-2-4
Lab Sample ID: 180-66369-33
Date Collected: 05/16/17 12:05
Matrix: Solid
Date Received: 05/17/17 09:05
Percent Solids: 91.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.4 g	20.0 mL	211516	05/18/17 03:37	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	211550	05/18/17 08:52	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	211551	05/18/17 08:54	JMO	TAL PIT
Total/NA	Analysis	8082A		1			211517	05/18/17 09:20	JMO	TAL PIT
	Instrument ID: CHGC10									

Client Sample ID: SSHS-B798-SUB-8-10
Lab Sample ID: 180-66369-35
Date Collected: 05/16/17 12:15
Matrix: Solid
Date Received: 05/17/17 09:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			211471	05/17/17 14:39	JJZ	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B798-SUB-8-10
Lab Sample ID: 180-66369-35
Date Collected: 05/16/17 12:15
Matrix: Solid
Date Received: 05/17/17 09:05
Percent Solids: 88.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.2 g	20.0 mL	211516	05/18/17 03:37	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	211550	05/18/17 08:52	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	211551	05/18/17 08:54	JMO	TAL PIT
Total/NA	Analysis	8082A		1			211517	05/18/17 09:38	JMO	TAL PIT
	Instrument ID: CHGC10									

Client Sample ID: PS-FD-4
Lab Sample ID: 180-66369-36
Date Collected: 05/16/17 00:00
Matrix: Solid
Date Received: 05/17/17 09:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			211471	05/17/17 14:39	JJZ	TAL PIT
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North

TestAmerica Job ID: 180-66369-1

Client Sample ID: PS-FD-4
Date Collected: 05/16/17 00:00
Date Received: 05/17/17 09:05

Lab Sample ID: 180-66369-36
Matrix: Solid
Percent Solids: 88.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.3 g	20.0 mL	211516	05/18/17 03:37	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	211550	05/18/17 08:52	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	211551	05/18/17 08:54	JMO	TAL PIT
Total/NA	Analysis	8082A		1			211517	05/18/17 09:57	JMO	TAL PIT
	Instrument ID: CHGC10									

Client Sample ID: SSHS-B798-SUB-10-12
Date Collected: 05/16/17 12:15
Date Received: 05/17/17 09:05

Lab Sample ID: 180-66369-37
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			211471	05/17/17 14:39	JJZ	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B798-SUB-10-12
Date Collected: 05/16/17 12:15
Date Received: 05/17/17 09:05

Lab Sample ID: 180-66369-37
Matrix: Solid
Percent Solids: 88.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.3 g	20.0 mL	211516	05/18/17 03:37	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	211550	05/18/17 08:52	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	211551	05/18/17 08:54	JMO	TAL PIT
Total/NA	Analysis	8082A		1			211517	05/18/17 10:16	JMO	TAL PIT
	Instrument ID: CHGC10									

Client Sample ID: SSHS-B797-SUB-4-6
Date Collected: 05/16/17 15:05
Date Received: 05/17/17 09:05

Lab Sample ID: 180-66369-43
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			211471	05/17/17 14:39	JJZ	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B797-SUB-4-6
Date Collected: 05/16/17 15:05
Date Received: 05/17/17 09:05

Lab Sample ID: 180-66369-43
Matrix: Solid
Percent Solids: 86.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.4 g	20.0 mL	211516	05/18/17 03:37	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	211550	05/18/17 08:52	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	211551	05/18/17 08:54	JMO	TAL PIT
Total/NA	Analysis	8082A		10			211517	05/18/17 14:38	JMO	TAL PIT
	Instrument ID: CHGC10									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North

TestAmerica Job ID: 180-66369-1

Client Sample ID: SSHS-B797-SUB-6-8
Lab Sample ID: 180-66369-44
Date Collected: 05/16/17 15:05
Matrix: Solid
Date Received: 05/17/17 09:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			211471	05/17/17 14:39	JJZ	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B797-SUB-6-8
Lab Sample ID: 180-66369-44
Date Collected: 05/16/17 15:05
Matrix: Solid
Date Received: 05/17/17 09:05
Percent Solids: 88.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.2 g	20.0 mL	211516	05/18/17 03:37	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	211550	05/18/17 08:52	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	211551	05/18/17 08:54	JMO	TAL PIT
Total/NA	Analysis	8082A		100			211517	05/18/17 14:57	JMO	TAL PIT
	Instrument ID: CHGC10									

Client Sample ID: SSHS-B794-SUB-2-4
Lab Sample ID: 180-66369-45
Date Collected: 05/16/17 15:20
Matrix: Solid
Date Received: 05/17/17 09:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			211471	05/17/17 14:39	JJZ	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B794-SUB-2-4
Lab Sample ID: 180-66369-45
Date Collected: 05/16/17 15:20
Matrix: Solid
Date Received: 05/17/17 09:05
Percent Solids: 88.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	211516	05/18/17 03:37	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	211550	05/18/17 08:52	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	211551	05/18/17 08:54	JMO	TAL PIT
Total/NA	Analysis	8082A		1			211517	05/18/17 11:12	JMO	TAL PIT
	Instrument ID: CHGC10									

Client Sample ID: SSHS-B794-SUB-4-6
Lab Sample ID: 180-66369-46
Date Collected: 05/16/17 15:25
Matrix: Solid
Date Received: 05/17/17 09:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			211471	05/17/17 14:39	JJZ	TAL PIT
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North

TestAmerica Job ID: 180-66369-1

Client Sample ID: SSHS-B794-SUB-4-6

Lab Sample ID: 180-66369-46
Date Collected: 05/16/17 15:25
Matrix: Solid
Date Received: 05/17/17 09:05
Percent Solids: 90.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.5 g	20.0 mL	211516	05/18/17 03:37	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	211550	05/18/17 08:52	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	211551	05/18/17 08:54	JMO	TAL PIT
Total/NA	Analysis	8082A		10			211517	05/18/17 15:16	JMO	TAL PIT
	Instrument ID: CHGC10									

Client Sample ID: PS-FD-5

Lab Sample ID: 180-66369-47
Date Collected: 05/16/17 00:00
Matrix: Solid
Date Received: 05/17/17 09:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			211471	05/17/17 14:39	JJZ	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: PS-FD-5

Lab Sample ID: 180-66369-47
Date Collected: 05/16/17 00:00
Matrix: Solid
Date Received: 05/17/17 09:05
Percent Solids: 86.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.4 g	20.0 mL	211516	05/18/17 03:37	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	211550	05/18/17 08:52	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	211551	05/18/17 08:54	JMO	TAL PIT
Total/NA	Analysis	8082A		100			211517	05/18/17 16:13	JMO	TAL PIT
	Instrument ID: CHGC10									

Client Sample ID: PS-FD-6

Lab Sample ID: 180-66369-48
Date Collected: 05/16/17 00:00
Matrix: Solid
Date Received: 05/17/17 09:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			211471	05/17/17 14:39	JJZ	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: PS-FD-6

Lab Sample ID: 180-66369-48
Date Collected: 05/16/17 00:00
Matrix: Solid
Date Received: 05/17/17 09:05
Percent Solids: 82.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.2 g	20.0 mL	211516	05/18/17 03:37	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	211550	05/18/17 08:52	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	211551	05/18/17 08:54	JMO	TAL PIT
Total/NA	Analysis	8082A		1			211517	05/18/17 12:47	JMO	TAL PIT
	Instrument ID: CHGC10									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North

TestAmerica Job ID: 180-66369-1

Client Sample ID: SSHS-B794-SUB-6-8
Lab Sample ID: 180-66369-49
Date Collected: 05/16/17 15:25
Matrix: Solid
Date Received: 05/17/17 09:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			211471	05/17/17 14:39	JJZ	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B794-SUB-6-8
Lab Sample ID: 180-66369-49
Date Collected: 05/16/17 15:25
Matrix: Solid
Date Received: 05/17/17 09:05
Percent Solids: 84.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.3 g	20.0 mL	211516	05/18/17 03:37	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	211550	05/18/17 08:52	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	211551	05/18/17 08:54	JMO	TAL PIT
Total/NA	Analysis	8082A		1			211517	05/18/17 13:04	JMO	TAL PIT
	Instrument ID: CHGC10									

Client Sample ID: SSHS-B812-SUB-8-10
Lab Sample ID: 180-66369-51
Date Collected: 05/15/17 13:50
Matrix: Solid
Date Received: 05/17/17 09:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			211471	05/17/17 14:39	JJZ	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B812-SUB-8-10
Lab Sample ID: 180-66369-51
Date Collected: 05/15/17 13:50
Matrix: Solid
Date Received: 05/17/17 09:05
Percent Solids: 93.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.1 g	20.0 mL	211516	05/18/17 03:37	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	211550	05/18/17 08:52	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	211551	05/18/17 08:54	JMO	TAL PIT
Total/NA	Analysis	8082A		1			211517	05/18/17 13:23	JMO	TAL PIT
	Instrument ID: CHGC10									

Client Sample ID: SSHS-B812-SUB-12-14
Lab Sample ID: 180-66369-53
Date Collected: 05/15/17 13:55
Matrix: Solid
Date Received: 05/17/17 09:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			211471	05/17/17 14:39	JJZ	TAL PIT
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North

TestAmerica Job ID: 180-66369-1

Client Sample ID: SSHS-B812-SUB-12-14
Lab Sample ID: 180-66369-53
Date Collected: 05/15/17 13:55
Matrix: Solid
Date Received: 05/17/17 09:05
Percent Solids: 90.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.4 g	20.0 mL	211516	05/18/17 03:37	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	211550	05/18/17 08:52	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	211551	05/18/17 08:54	JMO	TAL PIT
Total/NA	Analysis	8082A		10			211518	05/18/17 15:42	JMO	TAL PIT
	Instrument ID: CHGC8									

Client Sample ID: SSHS-B807-SUB-8-10
Lab Sample ID: 180-66369-57
Date Collected: 05/15/17 14:20
Matrix: Solid
Date Received: 05/17/17 09:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			211471	05/17/17 14:39	JJZ	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B807-SUB-8-10
Lab Sample ID: 180-66369-57
Date Collected: 05/15/17 14:20
Matrix: Solid
Date Received: 05/17/17 09:05
Percent Solids: 90.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.5 g	20.0 mL	211516	05/18/17 03:37	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	211550	05/18/17 08:52	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	211551	05/18/17 08:54	JMO	TAL PIT
Total/NA	Analysis	8082A		1			211518	05/18/17 11:21	JMO	TAL PIT
	Instrument ID: CHGC8									

Client Sample ID: SSHS-B787-SUB-8-10
Lab Sample ID: 180-66369-61
Date Collected: 05/15/17 15:25
Matrix: Solid
Date Received: 05/17/17 09:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			211471	05/17/17 14:39	JJZ	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B787-SUB-8-10
Lab Sample ID: 180-66369-61
Date Collected: 05/15/17 15:25
Matrix: Solid
Date Received: 05/17/17 09:05
Percent Solids: 93.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	211516	05/18/17 03:37	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	211550	05/18/17 08:52	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	211551	05/18/17 08:54	JMO	TAL PIT
Total/NA	Analysis	8082A		1			211518	05/18/17 11:41	JMO	TAL PIT
	Instrument ID: CHGC8									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North

TestAmerica Job ID: 180-66369-1

Client Sample ID: PS-FD-1
Date Collected: 05/15/17 00:00
Date Received: 05/17/17 09:05

Lab Sample ID: 180-66369-62
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			211471	05/17/17 14:39	JJZ	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: PS-FD-1
Date Collected: 05/15/17 00:00
Date Received: 05/17/17 09:05

Lab Sample ID: 180-66369-62
Matrix: Solid
Percent Solids: 92.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.2 g	20.0 mL	211516	05/18/17 03:37	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	211550	05/18/17 08:52	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	211551	05/18/17 08:54	JMO	TAL PIT
Total/NA	Analysis	8082A		1			211518	05/18/17 12:01	JMO	TAL PIT
	Instrument ID: CHGC8									

Client Sample ID: SSHS-B793-SUB-4-6
Date Collected: 05/15/17 15:50
Date Received: 05/17/17 09:05

Lab Sample ID: 180-66369-63
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			211471	05/17/17 14:39	JJZ	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B793-SUB-4-6
Date Collected: 05/15/17 15:50
Date Received: 05/17/17 09:05

Lab Sample ID: 180-66369-63
Matrix: Solid
Percent Solids: 84.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.4 g	20.0 mL	211516	05/18/17 03:37	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	211550	05/18/17 08:52	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	211551	05/18/17 08:54	JMO	TAL PIT
Total/NA	Analysis	8082A		500			211518	05/18/17 12:41	JMO	TAL PIT
	Instrument ID: CHGC8									

Client Sample ID: SSHS-B793-SUB-6-8
Date Collected: 05/15/17 15:50
Date Received: 05/17/17 09:05

Lab Sample ID: 180-66369-64
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			211471	05/17/17 14:39	JJZ	TAL PIT
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North

TestAmerica Job ID: 180-66369-1

Client Sample ID: SSHS-B793-SUB-6-8
Date Collected: 05/15/17 15:50
Date Received: 05/17/17 09:05

Lab Sample ID: 180-66369-64
Matrix: Solid
Percent Solids: 87.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.2 g	20.0 mL	211516	05/18/17 03:37	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	211550	05/18/17 08:52	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	211551	05/18/17 08:54	JMO	TAL PIT
Total/NA	Analysis	8082A		500			211518	05/18/17 16:02	JMO	TAL PIT
	Instrument ID: CHGC8									

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Analyst References:

Lab: TAL PIT

Batch Type: Cleanup

CMR = Carl Reagle

JMO = John Oravec

Batch Type: Prep

BAP = Brian Pino

MAL = Michael Lonzo

Batch Type: Analysis

JJZ = Joseph Zubrow

JMO = John Oravec

Client Sample ID: SSHS-B792-SUB-8-10

Lab Sample ID: 180-66369-1
Date Collected: 05/16/17 07:45
Matrix: Solid
Date Received: 05/17/17 09:05
Percent Solids: 90.7

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		1800	980	ug/Kg	☼	05/17/17 14:59	05/18/17 10:24	100
PCB-1221	ND		1800	950	ug/Kg	☼	05/17/17 14:59	05/18/17 10:24	100
PCB-1232	ND		1800	730	ug/Kg	☼	05/17/17 14:59	05/18/17 10:24	100
PCB-1242	ND		1800	1500	ug/Kg	☼	05/17/17 14:59	05/18/17 10:24	100
PCB-1248	**130000**		1800	880	ug/Kg	☼	05/17/17 14:59	05/18/17 10:24	100
PCB-1254	**38000**		1800	810	ug/Kg	☼	05/17/17 14:59	05/18/17 10:24	100
PCB-1260	**4600**		1800	1200	ug/Kg	☼	05/17/17 14:59	05/18/17 10:24	100
PCB-1262	ND		1800	1300	ug/Kg	☼	05/17/17 14:59	05/18/17 10:24	100
PCB-1268	ND		1800	560	ug/Kg	☼	05/17/17 14:59	05/18/17 10:24	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*0*	*X D*	*23 - 150*	*05/17/17 14:59*	*05/18/17 10:24*	*100*
DCB Decachlorobiphenyl (Surr)	*0*	*X D*	*23 - 150*	*05/17/17 14:59*	*05/18/17 10:24*	*100*
Tetrachloro-m-xylene (Surr)	*0*	*X D*	*27 - 138*	*05/17/17 14:59*	*05/18/17 10:24*	*100*
Tetrachloro-m-xylene (Surr)	*0*	*X D*	*27 - 138*	*05/17/17 14:59*	*05/18/17 10:24*	*100*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.3**		0.1	0.1	%			05/17/17 14:15	1
Percent Solids	**90.7**		0.1	0.1	%			05/17/17 14:15	1

Client Sample ID: SSHS-B792-SUB-10-12

Lab Sample ID: 180-66369-2
Date Collected: 05/16/17 07:45
Matrix: Solid
Date Received: 05/17/17 09:05
Percent Solids: 82.7

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		20	11	ug/Kg	☼	05/17/17 14:59	05/17/17 21:29	1
PCB-1221	ND		20	10	ug/Kg	☼	05/17/17 14:59	05/17/17 21:29	1
PCB-1232	ND		20	8.0	ug/Kg	☼	05/17/17 14:59	05/17/17 21:29	1
PCB-1242	ND		20	16	ug/Kg	☼	05/17/17 14:59	05/17/17 21:29	1
PCB-1248	**470**		20	9.6	ug/Kg	☼	05/17/17 14:59	05/17/17 21:29	1
PCB-1254	**250**		20	8.8	ug/Kg	☼	05/17/17 14:59	05/17/17 21:29	1
PCB-1260	**62**		20	13	ug/Kg	☼	05/17/17 14:59	05/17/17 21:29	1
PCB-1262	ND		20	14	ug/Kg	☼	05/17/17 14:59	05/17/17 21:29	1
PCB-1268	ND		20	6.1	ug/Kg	☼	05/17/17 14:59	05/17/17 21:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*71*		*23 - 150*	*05/17/17 14:59*	*05/17/17 21:29*	*1*
DCB Decachlorobiphenyl (Surr)	*67*		*23 - 150*	*05/17/17 14:59*	*05/17/17 21:29*	*1*
Tetrachloro-m-xylene (Surr)	*75*		*27 - 138*	*05/17/17 14:59*	*05/17/17 21:29*	*1*
Tetrachloro-m-xylene (Surr)	*75*		*27 - 138*	*05/17/17 14:59*	*05/17/17 21:29*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**17.3**		0.1	0.1	%			05/17/17 14:15	1
Percent Solids	**82.7**		0.1	0.1	%			05/17/17 14:15	1

Client Sample ID: SSHS-B792-SUB-12-14

Lab Sample ID: 180-66369-3
Date Collected: 05/16/17 07:50
Matrix: Solid
Date Received: 05/17/17 09:05
Percent Solids: 77.7

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		1100	570	ug/Kg	☼	05/17/17 14:59	05/18/17 10:45	50
PCB-1221	ND		1100	560	ug/Kg	☼	05/17/17 14:59	05/18/17 10:45	50
PCB-1232	ND		1100	420	ug/Kg	☼	05/17/17 14:59	05/18/17 10:45	50
PCB-1242	ND		1100	850	ug/Kg	☼	05/17/17 14:59	05/18/17 10:45	50
PCB-1248	**63000**		1100	510	ug/Kg	☼	05/17/17 14:59	05/18/17 10:45	50
PCB-1254	**16000**		1100	470	ug/Kg	☼	05/17/17 14:59	05/18/17 10:45	50
PCB-1260	**2000**		1100	720	ug/Kg	☼	05/17/17 14:59	05/18/17 10:45	50
PCB-1262	ND		1100	770	ug/Kg	☼	05/17/17 14:59	05/18/17 10:45	50
PCB-1268	ND		1100	330	ug/Kg	☼	05/17/17 14:59	05/18/17 10:45	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*0*	*X D*	*23 - 150*	*05/17/17 14:59*	*05/18/17 10:45*	*50*
DCB Decachlorobiphenyl (Surr)	*0*	*X D*	*23 - 150*	*05/17/17 14:59*	*05/18/17 10:45*	*50*
Tetrachloro-m-xylene (Surr)	*0*	*X D*	*27 - 138*	*05/17/17 14:59*	*05/18/17 10:45*	*50*
Tetrachloro-m-xylene (Surr)	*0*	*X D*	*27 - 138*	*05/17/17 14:59*	*05/18/17 10:45*	*50*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**22.3**		0.1	0.1	%			05/17/17 14:15	1
Percent Solids	**77.7**		0.1	0.1	%			05/17/17 14:15	1

Client Sample ID: SSHS-B791-SUB-2-4

Lab Sample ID: 180-66369-5
Date Collected: 05/16/17 08:10
Matrix: Solid
Date Received: 05/17/17 09:05
Percent Solids: 89.5

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		190	99	ug/Kg	☼	05/17/17 14:59	05/18/17 11:47	10
PCB-1221	ND		190	96	ug/Kg	☼	05/17/17 14:59	05/18/17 11:47	10
PCB-1232	ND		190	74	ug/Kg	☼	05/17/17 14:59	05/18/17 11:47	10
PCB-1242	ND		190	150	ug/Kg	☼	05/17/17 14:59	05/18/17 11:47	10
PCB-1248	**41000**		190	89	ug/Kg	☼	05/17/17 14:59	05/18/17 11:47	10
PCB-1254	**11000**		190	82	ug/Kg	☼	05/17/17 14:59	05/18/17 11:47	10
PCB-1260	**1000**		190	120	ug/Kg	☼	05/17/17 14:59	05/18/17 11:47	10
PCB-1262	ND		190	130	ug/Kg	☼	05/17/17 14:59	05/18/17 11:47	10
PCB-1268	ND		190	57	ug/Kg	☼	05/17/17 14:59	05/18/17 11:47	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*100*		*23 - 150*	*05/17/17 14:59*	*05/18/17 11:47*	*10*
DCB Decachlorobiphenyl (Surr)	*96*		*23 - 150*	*05/17/17 14:59*	*05/18/17 11:47*	*10*
Tetrachloro-m-xylene (Surr)	*86*		*27 - 138*	*05/17/17 14:59*	*05/18/17 11:47*	*10*
Tetrachloro-m-xylene (Surr)	*86*		*27 - 138*	*05/17/17 14:59*	*05/18/17 11:47*	*10*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**10.5**		0.1	0.1	%			05/17/17 14:15	1
Percent Solids	**89.5**		0.1	0.1	%			05/17/17 14:15	1

Client Sample ID: SSHS-B796-SUB-4-6

Lab Sample ID: 180-66369-7
Date Collected: 05/16/17 08:50
Matrix: Solid
Date Received: 05/17/17 09:05
Percent Solids: 87.0

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		96	51	ug/Kg	☼	05/17/17 14:59	05/18/17 12:08	5
PCB-1221	ND		96	50	ug/Kg	☼	05/17/17 14:59	05/18/17 12:08	5
PCB-1232	ND		96	38	ug/Kg	☼	05/17/17 14:59	05/18/17 12:08	5
PCB-1242	ND		96	76	ug/Kg	☼	05/17/17 14:59	05/18/17 12:08	5
PCB-1248	**10000**		96	46	ug/Kg	☼	05/17/17 14:59	05/18/17 12:08	5
PCB-1254	**3600**		96	42	ug/Kg	☼	05/17/17 14:59	05/18/17 12:08	5
PCB-1260	**420**		96	64	ug/Kg	☼	05/17/17 14:59	05/18/17 12:08	5
PCB-1262	ND		96	69	ug/Kg	☼	05/17/17 14:59	05/18/17 12:08	5
PCB-1268	ND		96	29	ug/Kg	☼	05/17/17 14:59	05/18/17 12:08	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*90*		*23 - 150*	*05/17/17 14:59*	*05/18/17 12:08*	*5*
DCB Decachlorobiphenyl (Surr)	*81*		*23 - 150*	*05/17/17 14:59*	*05/18/17 12:08*	*5*
Tetrachloro-m-xylene (Surr)	*85*		*27 - 138*	*05/17/17 14:59*	*05/18/17 12:08*	*5*
Tetrachloro-m-xylene (Surr)	*82*		*27 - 138*	*05/17/17 14:59*	*05/18/17 12:08*	*5*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**13.0**		0.1	0.1	%			05/17/17 14:15	1
Percent Solids	**87.0**		0.1	0.1	%			05/17/17 14:15	1

Client Sample ID: SSHS-B796-SUB-6-8

Lab Sample ID: 180-66369-8
Date Collected: 05/16/17 08:50
Matrix: Solid
Date Received: 05/17/17 09:05
Percent Solids: 90.7

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		18	9.7	ug/Kg	☼	05/17/17 14:59	05/17/17 22:53	1
PCB-1221	ND		18	9.5	ug/Kg	☼	05/17/17 14:59	05/17/17 22:53	1
PCB-1232	ND		18	7.3	ug/Kg	☼	05/17/17 14:59	05/17/17 22:53	1
PCB-1242	ND		18	15	ug/Kg	☼	05/17/17 14:59	05/17/17 22:53	1
PCB-1248	**110**		18	8.8	ug/Kg	☼	05/17/17 14:59	05/17/17 22:53	1
PCB-1254	**73**		18	8.1	ug/Kg	☼	05/17/17 14:59	05/17/17 22:53	1
PCB-1260	**16**	**J**	18	12	ug/Kg	☼	05/17/17 14:59	05/17/17 22:53	1
PCB-1262	ND		18	13	ug/Kg	☼	05/17/17 14:59	05/17/17 22:53	1
PCB-1268	ND		18	5.6	ug/Kg	☼	05/17/17 14:59	05/17/17 22:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*68*		*23 - 150*	*05/17/17 14:59*	*05/17/17 22:53*	*1*
DCB Decachlorobiphenyl (Surr)	*75*		*23 - 150*	*05/17/17 14:59*	*05/17/17 22:53*	*1*
Tetrachloro-m-xylene (Surr)	*65*		*27 - 138*	*05/17/17 14:59*	*05/17/17 22:53*	*1*
Tetrachloro-m-xylene (Surr)	*65*		*27 - 138*	*05/17/17 14:59*	*05/17/17 22:53*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.3**		0.1	0.1	%			05/17/17 14:15	1
Percent Solids	**90.7**		0.1	0.1	%			05/17/17 14:15	1

Client Sample ID: SSHS-B795-SUB-2-4

Lab Sample ID: 180-66369-9
Date Collected: 05/16/17 09:15
Matrix: Solid
Date Received: 05/17/17 09:05
Percent Solids: 86.4

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		19	10	ug/Kg	☼	05/17/17 14:59	05/18/17 02:02	1
PCB-1221	ND		19	10	ug/Kg	☼	05/17/17 14:59	05/18/17 02:02	1
PCB-1232	ND		19	7.6	ug/Kg	☼	05/17/17 14:59	05/18/17 02:02	1
PCB-1242	ND		19	15	ug/Kg	☼	05/17/17 14:59	05/18/17 02:02	1
PCB-1248	**670**		19	9.2	ug/Kg	☼	05/17/17 14:59	05/18/17 02:02	1
PCB-1254	**190**		19	8.5	ug/Kg	☼	05/17/17 14:59	05/18/17 02:02	1
PCB-1260	**22**		19	13	ug/Kg	☼	05/17/17 14:59	05/18/17 02:02	1
PCB-1262	ND		19	14	ug/Kg	☼	05/17/17 14:59	05/18/17 02:02	1
PCB-1268	ND		19	5.9	ug/Kg	☼	05/17/17 14:59	05/18/17 02:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*66*		*23 - 150*	*05/17/17 14:59*	*05/18/17 02:02*	*1*
DCB Decachlorobiphenyl (Surr)	*69*		*23 - 150*	*05/17/17 14:59*	*05/18/17 02:02*	*1*
Tetrachloro-m-xylene (Surr)	*74*		*27 - 138*	*05/17/17 14:59*	*05/18/17 02:02*	*1*
Tetrachloro-m-xylene (Surr)	*72*		*27 - 138*	*05/17/17 14:59*	*05/18/17 02:02*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**13.6**		0.1	0.1	%			05/17/17 14:15	1
Percent Solids	**86.4**		0.1	0.1	%			05/17/17 14:15	1

Client Sample ID: SSHS-B795-SUB-4-6

Lab Sample ID: 180-66369-10
Date Collected: 05/16/17 09:20
Matrix: Solid
Date Received: 05/17/17 09:05
Percent Solids: 86.8

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		19	10	ug/Kg	☼	05/17/17 14:59	05/18/17 02:24	1
PCB-1221	ND		19	9.9	ug/Kg	☼	05/17/17 14:59	05/18/17 02:24	1
PCB-1232	ND		19	7.6	ug/Kg	☼	05/17/17 14:59	05/18/17 02:24	1
PCB-1242	ND		19	15	ug/Kg	☼	05/17/17 14:59	05/18/17 02:24	1
PCB-1248	**280**		19	9.2	ug/Kg	☼	05/17/17 14:59	05/18/17 02:24	1
PCB-1254	**72**		19	8.4	ug/Kg	☼	05/17/17 14:59	05/18/17 02:24	1
PCB-1260	ND		19	13	ug/Kg	☼	05/17/17 14:59	05/18/17 02:24	1
PCB-1262	ND		19	14	ug/Kg	☼	05/17/17 14:59	05/18/17 02:24	1
PCB-1268	ND		19	5.9	ug/Kg	☼	05/17/17 14:59	05/18/17 02:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*70*		*23 - 150*	*05/17/17 14:59*	*05/18/17 02:24*	*1*
DCB Decachlorobiphenyl (Surr)	*68*		*23 - 150*	*05/17/17 14:59*	*05/18/17 02:24*	*1*
Tetrachloro-m-xylene (Surr)	*74*		*27 - 138*	*05/17/17 14:59*	*05/18/17 02:24*	*1*
Tetrachloro-m-xylene (Surr)	*74*		*27 - 138*	*05/17/17 14:59*	*05/18/17 02:24*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**13.2**		0.1	0.1	%			05/17/17 14:15	1
Percent Solids	**86.8**		0.1	0.1	%			05/17/17 14:15	1

Client Sample ID: SSHS-B795-SUB-6-8

Lab Sample ID: 180-66369-11
Date Collected: 05/16/17 09:20
Matrix: Solid
Date Received: 05/17/17 09:05
Percent Solids: 85.4

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		20	10	ug/Kg	☼	05/17/17 14:59	05/18/17 02:46	1
PCB-1221	ND		20	10	ug/Kg	☼	05/17/17 14:59	05/18/17 02:46	1
PCB-1232	ND		20	7.7	ug/Kg	☼	05/17/17 14:59	05/18/17 02:46	1
PCB-1242	ND		20	16	ug/Kg	☼	05/17/17 14:59	05/18/17 02:46	1
PCB-1248	ND		20	9.3	ug/Kg	☼	05/17/17 14:59	05/18/17 02:46	1
PCB-1254	ND		20	8.6	ug/Kg	☼	05/17/17 14:59	05/18/17 02:46	1
PCB-1260	ND		20	13	ug/Kg	☼	05/17/17 14:59	05/18/17 02:46	1
PCB-1262	ND		20	14	ug/Kg	☼	05/17/17 14:59	05/18/17 02:46	1
PCB-1268	ND		20	5.9	ug/Kg	☼	05/17/17 14:59	05/18/17 02:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*71*		*23 - 150*	*05/17/17 14:59*	*05/18/17 02:46*	*1*
DCB Decachlorobiphenyl (Surr)	*68*		*23 - 150*	*05/17/17 14:59*	*05/18/17 02:46*	*1*
Tetrachloro-m-xylene (Surr)	*77*		*27 - 138*	*05/17/17 14:59*	*05/18/17 02:46*	*1*
Tetrachloro-m-xylene (Surr)	*77*		*27 - 138*	*05/17/17 14:59*	*05/18/17 02:46*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**14.6**		0.1	0.1	%			05/17/17 14:15	1
Percent Solids	**85.4**		0.1	0.1	%			05/17/17 14:15	1

Client Sample ID: PS-FD-2

Lab Sample ID: 180-66369-12
Date Collected: 05/16/17 00:00
Matrix: Solid
Date Received: 05/17/17 09:05
Percent Solids: 89.8

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		190	98	ug/Kg	☼	05/17/17 14:59	05/18/17 12:28	10
PCB-1221	ND		190	96	ug/Kg	☼	05/17/17 14:59	05/18/17 12:28	10
PCB-1232	ND		190	73	ug/Kg	☼	05/17/17 14:59	05/18/17 12:28	10
PCB-1242	ND		190	150	ug/Kg	☼	05/17/17 14:59	05/18/17 12:28	10
PCB-1248	**24000**		190	89	ug/Kg	☼	05/17/17 14:59	05/18/17 12:28	10
PCB-1254	**7800**		190	81	ug/Kg	☼	05/17/17 14:59	05/18/17 12:28	10
PCB-1260	**770**		190	120	ug/Kg	☼	05/17/17 14:59	05/18/17 12:28	10
PCB-1262	ND		190	130	ug/Kg	☼	05/17/17 14:59	05/18/17 12:28	10
PCB-1268	ND		190	57	ug/Kg	☼	05/17/17 14:59	05/18/17 12:28	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*97*		*23 - 150*	*05/17/17 14:59*	*05/18/17 12:28*	*10*
DCB Decachlorobiphenyl (Surr)	*69*		*23 - 150*	*05/17/17 14:59*	*05/18/17 12:28*	*10*
Tetrachloro-m-xylene (Surr)	*85*		*27 - 138*	*05/17/17 14:59*	*05/18/17 12:28*	*10*
Tetrachloro-m-xylene (Surr)	*81*		*27 - 138*	*05/17/17 14:59*	*05/18/17 12:28*	*10*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**10.2**		0.1	0.1	%			05/17/17 14:15	1
Percent Solids	**89.8**		0.1	0.1	%			05/17/17 14:15	1

Client Sample ID: SSHS-B795-SUB-8-10

Lab Sample ID: 180-66369-13
Date Collected: 05/16/17 09:25
Matrix: Solid
Date Received: 05/17/17 09:05
Percent Solids: 89.0

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		19	9.9	ug/Kg	☼	05/17/17 14:59	05/17/17 23:34	1
PCB-1221	ND		19	9.7	ug/Kg	☼	05/17/17 14:59	05/17/17 23:34	1
PCB-1232	ND		19	7.4	ug/Kg	☼	05/17/17 14:59	05/17/17 23:34	1
PCB-1242	ND		19	15	ug/Kg	☼	05/17/17 14:59	05/17/17 23:34	1
PCB-1248	**160**		19	8.9	ug/Kg	☼	05/17/17 14:59	05/17/17 23:34	1
PCB-1254	**51**		19	8.2	ug/Kg	☼	05/17/17 14:59	05/17/17 23:34	1
PCB-1260	ND		19	13	ug/Kg	☼	05/17/17 14:59	05/17/17 23:34	1
PCB-1262	ND		19	13	ug/Kg	☼	05/17/17 14:59	05/17/17 23:34	1
PCB-1268	ND		19	5.7	ug/Kg	☼	05/17/17 14:59	05/17/17 23:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*69*		*23 - 150*	*05/17/17 14:59*	*05/17/17 23:34*	*1*
DCB Decachlorobiphenyl (Surr)	*76*		*23 - 150*	*05/17/17 14:59*	*05/17/17 23:34*	*1*
Tetrachloro-m-xylene (Surr)	*72*		*27 - 138*	*05/17/17 14:59*	*05/17/17 23:34*	*1*
Tetrachloro-m-xylene (Surr)	*69*		*27 - 138*	*05/17/17 14:59*	*05/17/17 23:34*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**11.0**		0.1	0.1	%			05/17/17 14:15	1
Percent Solids	**89.0**		0.1	0.1	%			05/17/17 14:15	1

Client Sample ID: SSHS-B782-SUB-2-4

Lab Sample ID: 180-66369-16
Date Collected: 05/16/17 09:45
Matrix: Solid
Date Received: 05/17/17 09:05
Percent Solids: 85.0

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		2000	1000	ug/Kg	☼	05/17/17 14:59	05/18/17 12:48	100
PCB-1221	ND		2000	1000	ug/Kg	☼	05/17/17 14:59	05/18/17 12:48	100
PCB-1232	ND		2000	780	ug/Kg	☼	05/17/17 14:59	05/18/17 12:48	100
PCB-1242	ND		2000	1600	ug/Kg	☼	05/17/17 14:59	05/18/17 12:48	100
PCB-1248	**230000**		2000	940	ug/Kg	☼	05/17/17 14:59	05/18/17 12:48	100
PCB-1254	**69000**		2000	860	ug/Kg	☼	05/17/17 14:59	05/18/17 12:48	100
PCB-1260	**7300**		2000	1300	ug/Kg	☼	05/17/17 14:59	05/18/17 12:48	100
PCB-1262	ND		2000	1400	ug/Kg	☼	05/17/17 14:59	05/18/17 12:48	100
PCB-1268	ND		2000	600	ug/Kg	☼	05/17/17 14:59	05/18/17 12:48	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*0*	*X D*	*23 - 150*	*05/17/17 14:59*	*05/18/17 12:48*	*100*
DCB Decachlorobiphenyl (Surr)	*0*	*X D*	*23 - 150*	*05/17/17 14:59*	*05/18/17 12:48*	*100*
Tetrachloro-m-xylene (Surr)	*0*	*X D*	*27 - 138*	*05/17/17 14:59*	*05/18/17 12:48*	*100*
Tetrachloro-m-xylene (Surr)	*0*	*X D*	*27 - 138*	*05/17/17 14:59*	*05/18/17 12:48*	*100*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**15.0**		0.1	0.1	%			05/17/17 14:15	1
Percent Solids	**85.0**		0.1	0.1	%			05/17/17 14:15	1

Client Sample ID: SSHS-B803-SUB-4-6

Lab Sample ID: 180-66369-18

Date Collected: 05/16/17 10:10
Matrix: Solid
Date Received: 05/17/17 09:05
Percent Solids: 89.2

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		19	9.9	ug/Kg	☼	05/17/17 14:59	05/18/17 00:17	1
PCB-1221	ND		19	9.7	ug/Kg	☼	05/17/17 14:59	05/18/17 00:17	1
PCB-1232	ND		19	7.4	ug/Kg	☼	05/17/17 14:59	05/18/17 00:17	1
PCB-1242	ND		19	15	ug/Kg	☼	05/17/17 14:59	05/18/17 00:17	1
PCB-1248	**2800**		19	8.9	ug/Kg	☼	05/17/17 14:59	05/18/17 00:17	1
PCB-1254	**1000**		19	8.2	ug/Kg	☼	05/17/17 14:59	05/18/17 00:17	1
PCB-1260	**120**		19	12	ug/Kg	☼	05/17/17 14:59	05/18/17 00:17	1
PCB-1262	ND		19	13	ug/Kg	☼	05/17/17 14:59	05/18/17 00:17	1
PCB-1268	ND		19	5.7	ug/Kg	☼	05/17/17 14:59	05/18/17 00:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*62*		*23 - 150*	*05/17/17 14:59*	*05/18/17 00:17*	*1*
DCB Decachlorobiphenyl (Surr)	*71*		*23 - 150*	*05/17/17 14:59*	*05/18/17 00:17*	*1*
Tetrachloro-m-xylene (Surr)	*69*		*27 - 138*	*05/17/17 14:59*	*05/18/17 00:17*	*1*
Tetrachloro-m-xylene (Surr)	*65*		*27 - 138*	*05/17/17 14:59*	*05/18/17 00:17*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**10.8**		0.1	0.1	%			05/17/17 14:15	1
Percent Solids	**89.2**		0.1	0.1	%			05/17/17 14:15	1

Client Sample ID: SSHS-B803-SUB-6-8

Lab Sample ID: 180-66369-19

Date Collected: 05/16/17 10:10
Matrix: Solid
Date Received: 05/17/17 09:05
Percent Solids: 89.4

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		19	9.9	ug/Kg	☼	05/17/17 14:59	05/18/17 00:38	1
PCB-1221	ND		19	9.7	ug/Kg	☼	05/17/17 14:59	05/18/17 00:38	1
PCB-1232	ND		19	7.4	ug/Kg	☼	05/17/17 14:59	05/18/17 00:38	1
PCB-1242	ND		19	15	ug/Kg	☼	05/17/17 14:59	05/18/17 00:38	1
PCB-1248	**620**		19	8.9	ug/Kg	☼	05/17/17 14:59	05/18/17 00:38	1
PCB-1254	**220**		19	8.2	ug/Kg	☼	05/17/17 14:59	05/18/17 00:38	1
PCB-1260	**26**		19	12	ug/Kg	☼	05/17/17 14:59	05/18/17 00:38	1
PCB-1262	ND		19	13	ug/Kg	☼	05/17/17 14:59	05/18/17 00:38	1
PCB-1268	ND		19	5.7	ug/Kg	☼	05/17/17 14:59	05/18/17 00:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*69*		*23 - 150*	*05/17/17 14:59*	*05/18/17 00:38*	*1*
DCB Decachlorobiphenyl (Surr)	*81*		*23 - 150*	*05/17/17 14:59*	*05/18/17 00:38*	*1*
Tetrachloro-m-xylene (Surr)	*72*		*27 - 138*	*05/17/17 14:59*	*05/18/17 00:38*	*1*
Tetrachloro-m-xylene (Surr)	*69*		*27 - 138*	*05/17/17 14:59*	*05/18/17 00:38*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**10.6**		0.1	0.1	%			05/17/17 14:15	1
Percent Solids	**89.4**		0.1	0.1	%			05/17/17 14:15	1

Client Sample ID: PS-FD-3

Lab Sample ID: 180-66369-24
Date Collected: 05/16/17 00:00
Matrix: Solid
Date Received: 05/17/17 09:05
Percent Solids: 86.5

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		19	10	ug/Kg	☼	05/17/17 14:59	05/18/17 03:06	1
PCB-1221	ND		19	10	ug/Kg	☼	05/17/17 14:59	05/18/17 03:06	1
PCB-1232	ND		19	7.6	ug/Kg	☼	05/17/17 14:59	05/18/17 03:06	1
PCB-1242	ND		19	15	ug/Kg	☼	05/17/17 14:59	05/18/17 03:06	1
PCB-1248	ND		19	9.2	ug/Kg	☼	05/17/17 14:59	05/18/17 03:06	1
PCB-1254	ND		19	8.5	ug/Kg	☼	05/17/17 14:59	05/18/17 03:06	1
PCB-1260	ND		19	13	ug/Kg	☼	05/17/17 14:59	05/18/17 03:06	1
PCB-1262	ND		19	14	ug/Kg	☼	05/17/17 14:59	05/18/17 03:06	1
PCB-1268	ND		19	5.9	ug/Kg	☼	05/17/17 14:59	05/18/17 03:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*69*		*23 - 150*	*05/17/17 14:59*	*05/18/17 03:06*	*1*
DCB Decachlorobiphenyl (Surr)	*65*		*23 - 150*	*05/17/17 14:59*	*05/18/17 03:06*	*1*
Tetrachloro-m-xylene (Surr)	*69*		*27 - 138*	*05/17/17 14:59*	*05/18/17 03:06*	*1*
Tetrachloro-m-xylene (Surr)	*69*		*27 - 138*	*05/17/17 14:59*	*05/18/17 03:06*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**13.5**		0.1	0.1	%			05/17/17 14:15	1
Percent Solids	**86.5**		0.1	0.1	%			05/17/17 14:15	1

Client Sample ID: SSHS-B804-SUB-4-6

Lab Sample ID: 180-66369-25
Date Collected: 05/16/17 11:05
Matrix: Solid
Date Received: 05/17/17 09:05
Percent Solids: 87.8

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		19	10	ug/Kg	☼	05/17/17 14:59	05/18/17 01:41	1
PCB-1221	ND		19	9.8	ug/Kg	☼	05/17/17 14:59	05/18/17 01:41	1
PCB-1232	ND		19	7.5	ug/Kg	☼	05/17/17 14:59	05/18/17 01:41	1
PCB-1242	ND		19	15	ug/Kg	☼	05/17/17 14:59	05/18/17 01:41	1
PCB-1248	**170**		19	9.1	ug/Kg	☼	05/17/17 14:59	05/18/17 01:41	1
PCB-1254	**62**		19	8.3	ug/Kg	☼	05/17/17 14:59	05/18/17 01:41	1
PCB-1260	ND		19	13	ug/Kg	☼	05/17/17 14:59	05/18/17 01:41	1
PCB-1262	ND		19	14	ug/Kg	☼	05/17/17 14:59	05/18/17 01:41	1
PCB-1268	ND		19	5.8	ug/Kg	☼	05/17/17 14:59	05/18/17 01:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*63*		*23 - 150*	*05/17/17 14:59*	*05/18/17 01:41*	*1*
DCB Decachlorobiphenyl (Surr)	*67*		*23 - 150*	*05/17/17 14:59*	*05/18/17 01:41*	*1*
Tetrachloro-m-xylene (Surr)	*67*		*27 - 138*	*05/17/17 14:59*	*05/18/17 01:41*	*1*
Tetrachloro-m-xylene (Surr)	*65*		*27 - 138*	*05/17/17 14:59*	*05/18/17 01:41*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**12.2**		0.1	0.1	%			05/17/17 14:15	1
Percent Solids	**87.8**		0.1	0.1	%			05/17/17 14:15	1

Client Sample ID: SSHS-B804-SUB-8-10

Lab Sample ID: 180-66369-27

Date Collected: 05/16/17 11:10
Matrix: Solid
Date Received: 05/17/17 09:05
Percent Solids: 90.9

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		18	9.7	ug/Kg	☼	05/17/17 14:59	05/18/17 04:10	1
PCB-1221	ND		18	9.5	ug/Kg	☼	05/17/17 14:59	05/18/17 04:10	1
PCB-1232	ND		18	7.3	ug/Kg	☼	05/17/17 14:59	05/18/17 04:10	1
PCB-1242	ND		18	15	ug/Kg	☼	05/17/17 14:59	05/18/17 04:10	1
PCB-1248	**68**		18	8.7	ug/Kg	☼	05/17/17 14:59	05/18/17 04:10	1
PCB-1254	**32**		18	8.0	ug/Kg	☼	05/17/17 14:59	05/18/17 04:10	1
PCB-1260	ND		18	12	ug/Kg	☼	05/17/17 14:59	05/18/17 04:10	1
PCB-1262	ND		18	13	ug/Kg	☼	05/17/17 14:59	05/18/17 04:10	1
PCB-1268	ND		18	5.6	ug/Kg	☼	05/17/17 14:59	05/18/17 04:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*58*		*23 - 150*	*05/17/17 14:59*	*05/18/17 04:10*	*1*
DCB Decachlorobiphenyl (Surr)	*67*		*23 - 150*	*05/17/17 14:59*	*05/18/17 04:10*	*1*
Tetrachloro-m-xylene (Surr)	*60*		*27 - 138*	*05/17/17 14:59*	*05/18/17 04:10*	*1*
Tetrachloro-m-xylene (Surr)	*58*		*27 - 138*	*05/17/17 14:59*	*05/18/17 04:10*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.1**		0.1	0.1	%			05/17/17 14:15	1
Percent Solids	**90.9**		0.1	0.1	%			05/17/17 14:15	1

Client Sample ID: SSHS-B804-SUB-10-12

Lab Sample ID: 180-66369-28

Date Collected: 05/16/17 11:10
Matrix: Solid
Date Received: 05/17/17 09:05
Percent Solids: 90.6

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		9200	4900	ug/Kg	☼	05/17/17 14:59	05/18/17 13:08	500
PCB-1221	ND		9200	4800	ug/Kg	☼	05/17/17 14:59	05/18/17 13:08	500
PCB-1232	ND		9200	3600	ug/Kg	☼	05/17/17 14:59	05/18/17 13:08	500
PCB-1242	ND		9200	7300	ug/Kg	☼	05/17/17 14:59	05/18/17 13:08	500
PCB-1248	**410000**		9200	4400	ug/Kg	☼	05/17/17 14:59	05/18/17 13:08	500
PCB-1254	**120000**		9200	4000	ug/Kg	☼	05/17/17 14:59	05/18/17 13:08	500
PCB-1260	**14000**		9200	6100	ug/Kg	☼	05/17/17 14:59	05/18/17 13:08	500
PCB-1262	ND		9200	6600	ug/Kg	☼	05/17/17 14:59	05/18/17 13:08	500
PCB-1268	ND		9200	2800	ug/Kg	☼	05/17/17 14:59	05/18/17 13:08	500

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*0*	*X D*	*23 - 150*	*05/17/17 14:59*	*05/18/17 13:08*	*500*
DCB Decachlorobiphenyl (Surr)	*0*	*X D*	*23 - 150*	*05/17/17 14:59*	*05/18/17 13:08*	*500*
Tetrachloro-m-xylene (Surr)	*0*	*X D*	*27 - 138*	*05/17/17 14:59*	*05/18/17 13:08*	*500*
Tetrachloro-m-xylene (Surr)	*0*	*X D*	*27 - 138*	*05/17/17 14:59*	*05/18/17 13:08*	*500*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.4**		0.1	0.1	%			05/17/17 14:15	1
Percent Solids	**90.6**		0.1	0.1	%			05/17/17 14:15	1

Client Sample ID: SSHS-B804-SUB-12-14

Lab Sample ID: 180-66369-29
Date Collected: 05/16/17 11:15
Matrix: Solid
Date Received: 05/17/17 09:05
Percent Solids: 87.2

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		960	510	ug/Kg	☼	05/17/17 14:59	05/18/17 13:29	50
PCB-1221	ND		960	500	ug/Kg	☼	05/17/17 14:59	05/18/17 13:29	50
PCB-1232	ND		960	380	ug/Kg	☼	05/17/17 14:59	05/18/17 13:29	50
PCB-1242	ND		960	760	ug/Kg	☼	05/17/17 14:59	05/18/17 13:29	50
PCB-1248	**80000**		960	460	ug/Kg	☼	05/17/17 14:59	05/18/17 13:29	50
PCB-1254	**32000**		960	420	ug/Kg	☼	05/17/17 14:59	05/18/17 13:29	50
PCB-1260	**3700**		960	640	ug/Kg	☼	05/17/17 14:59	05/18/17 13:29	50
PCB-1262	ND		960	690	ug/Kg	☼	05/17/17 14:59	05/18/17 13:29	50
PCB-1268	ND		960	290	ug/Kg	☼	05/17/17 14:59	05/18/17 13:29	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*0*	*X D*	*23 - 150*	*05/17/17 14:59*	*05/18/17 13:29*	*50*
DCB Decachlorobiphenyl (Surr)	*0*	*X D*	*23 - 150*	*05/17/17 14:59*	*05/18/17 13:29*	*50*
Tetrachloro-m-xylene (Surr)	*0*	*X D*	*27 - 138*	*05/17/17 14:59*	*05/18/17 13:29*	*50*
Tetrachloro-m-xylene (Surr)	*0*	*X D*	*27 - 138*	*05/17/17 14:59*	*05/18/17 13:29*	*50*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**12.8**		0.1	0.1	%			05/17/17 14:15	1
Percent Solids	**87.2**		0.1	0.1	%			05/17/17 14:15	1

Client Sample ID: SSHS-B811-SUB-12-14

Lab Sample ID: 180-66369-32
Date Collected: 05/16/17 11:50
Matrix: Solid
Date Received: 05/17/17 09:05
Percent Solids: 86.5

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		960	510	ug/Kg	☼	05/17/17 14:59	05/18/17 13:50	50
PCB-1221	ND		960	500	ug/Kg	☼	05/17/17 14:59	05/18/17 13:50	50
PCB-1232	ND		960	380	ug/Kg	☼	05/17/17 14:59	05/18/17 13:50	50
PCB-1242	ND		960	770	ug/Kg	☼	05/17/17 14:59	05/18/17 13:50	50
PCB-1248	**89000**		960	460	ug/Kg	☼	05/17/17 14:59	05/18/17 13:50	50
PCB-1254	**31000**		960	420	ug/Kg	☼	05/17/17 14:59	05/18/17 13:50	50
PCB-1260	**4200**		960	640	ug/Kg	☼	05/17/17 14:59	05/18/17 13:50	50
PCB-1262	ND		960	690	ug/Kg	☼	05/17/17 14:59	05/18/17 13:50	50
PCB-1268	ND		960	290	ug/Kg	☼	05/17/17 14:59	05/18/17 13:50	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*0*	*X D*	*23 - 150*	*05/17/17 14:59*	*05/18/17 13:50*	*50*
DCB Decachlorobiphenyl (Surr)	*0*	*X D*	*23 - 150*	*05/17/17 14:59*	*05/18/17 13:50*	*50*
Tetrachloro-m-xylene (Surr)	*0*	*X D*	*27 - 138*	*05/17/17 14:59*	*05/18/17 13:50*	*50*
Tetrachloro-m-xylene (Surr)	*0*	*X D*	*27 - 138*	*05/17/17 14:59*	*05/18/17 13:50*	*50*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**13.5**		0.1	0.1	%			05/17/17 14:15	1
Percent Solids	**86.5**		0.1	0.1	%			05/17/17 14:15	1

Client Sample ID: SSHS-B798-SUB-2-4

Lab Sample ID: 180-66369-33
Date Collected: 05/16/17 12:05
Matrix: Solid
Date Received: 05/17/17 09:05
Percent Solids: 91.5

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		18	9.4	ug/Kg	☼	05/18/17 03:37	05/18/17 09:20	1
PCB-1221	ND		18	9.2	ug/Kg	☼	05/18/17 03:37	05/18/17 09:20	1
PCB-1232	ND		18	7.0	ug/Kg	☼	05/18/17 03:37	05/18/17 09:20	1
PCB-1242	ND		18	14	ug/Kg	☼	05/18/17 03:37	05/18/17 09:20	1
PCB-1248	**54**		18	8.5	ug/Kg	☼	05/18/17 03:37	05/18/17 09:20	1
PCB-1254	**32**		18	7.8	ug/Kg	☼	05/18/17 03:37	05/18/17 09:20	1
PCB-1260	ND		18	12	ug/Kg	☼	05/18/17 03:37	05/18/17 09:20	1
PCB-1262	ND		18	13	ug/Kg	☼	05/18/17 03:37	05/18/17 09:20	1
PCB-1268	ND		18	5.4	ug/Kg	☼	05/18/17 03:37	05/18/17 09:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*76*		*23 - 150*	*05/18/17 03:37*	*05/18/17 09:20*	*1*
DCB Decachlorobiphenyl (Surr)	*76*		*23 - 150*	*05/18/17 03:37*	*05/18/17 09:20*	*1*
Tetrachloro-m-xylene (Surr)	*74*		*27 - 138*	*05/18/17 03:37*	*05/18/17 09:20*	*1*
Tetrachloro-m-xylene (Surr)	*70*		*27 - 138*	*05/18/17 03:37*	*05/18/17 09:20*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**8.5**		0.1	0.1	%			05/17/17 14:39	1
Percent Solids	**91.5**		0.1	0.1	%			05/17/17 14:39	1

Client Sample ID: SSHS-B798-SUB-8-10

Lab Sample ID: 180-66369-35
Date Collected: 05/16/17 12:15
Matrix: Solid
Date Received: 05/17/17 09:05
Percent Solids: 88.6

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		19	9.8	ug/Kg	☼	05/18/17 03:37	05/18/17 09:38	1
PCB-1221	ND		19	9.6	ug/Kg	☼	05/18/17 03:37	05/18/17 09:38	1
PCB-1232	ND		19	7.3	ug/Kg	☼	05/18/17 03:37	05/18/17 09:38	1
PCB-1242	ND		19	15	ug/Kg	☼	05/18/17 03:37	05/18/17 09:38	1
PCB-1248	**200**		19	8.9	ug/Kg	☼	05/18/17 03:37	05/18/17 09:38	1
PCB-1254	**150**		19	8.1	ug/Kg	☼	05/18/17 03:37	05/18/17 09:38	1
PCB-1260	**30**		19	12	ug/Kg	☼	05/18/17 03:37	05/18/17 09:38	1
PCB-1262	ND		19	13	ug/Kg	☼	05/18/17 03:37	05/18/17 09:38	1
PCB-1268	ND		19	5.7	ug/Kg	☼	05/18/17 03:37	05/18/17 09:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*73*		*23 - 150*	*05/18/17 03:37*	*05/18/17 09:38*	*1*
DCB Decachlorobiphenyl (Surr)	*74*		*23 - 150*	*05/18/17 03:37*	*05/18/17 09:38*	*1*
Tetrachloro-m-xylene (Surr)	*69*		*27 - 138*	*05/18/17 03:37*	*05/18/17 09:38*	*1*
Tetrachloro-m-xylene (Surr)	*62*		*27 - 138*	*05/18/17 03:37*	*05/18/17 09:38*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**11.4**		0.1	0.1	%			05/17/17 14:39	1
Percent Solids	**88.6**		0.1	0.1	%			05/17/17 14:39	1

Client Sample ID: PS-FD-4

Lab Sample ID: 180-66369-36
Date Collected: 05/16/17 00:00
Matrix: Solid
Date Received: 05/17/17 09:05
Percent Solids: 88.5

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		18	9.8	ug/Kg	☼	05/18/17 03:37	05/18/17 09:57	1
PCB-1221	ND		18	9.6	ug/Kg	☼	05/18/17 03:37	05/18/17 09:57	1
PCB-1232	ND		18	7.3	ug/Kg	☼	05/18/17 03:37	05/18/17 09:57	1
PCB-1242	ND		18	15	ug/Kg	☼	05/18/17 03:37	05/18/17 09:57	1
PCB-1248	**120**		18	8.8	ug/Kg	☼	05/18/17 03:37	05/18/17 09:57	1
PCB-1254	**85**		18	8.1	ug/Kg	☼	05/18/17 03:37	05/18/17 09:57	1
PCB-1260	**19**		18	12	ug/Kg	☼	05/18/17 03:37	05/18/17 09:57	1
PCB-1262	ND		18	13	ug/Kg	☼	05/18/17 03:37	05/18/17 09:57	1
PCB-1268	ND		18	5.6	ug/Kg	☼	05/18/17 03:37	05/18/17 09:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*77*		*23 - 150*	*05/18/17 03:37*	*05/18/17 09:57*	*1*
DCB Decachlorobiphenyl (Surr)	*74*		*23 - 150*	*05/18/17 03:37*	*05/18/17 09:57*	*1*
Tetrachloro-m-xylene (Surr)	*71*		*27 - 138*	*05/18/17 03:37*	*05/18/17 09:57*	*1*
Tetrachloro-m-xylene (Surr)	*66*		*27 - 138*	*05/18/17 03:37*	*05/18/17 09:57*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**11.5**		0.1	0.1	%			05/17/17 14:39	1
Percent Solids	**88.5**		0.1	0.1	%			05/17/17 14:39	1

Client Sample ID: SSHS-B798-SUB-10-12

Lab Sample ID: 180-66369-37
Date Collected: 05/16/17 12:15
Matrix: Solid
Date Received: 05/17/17 09:05
Percent Solids: 88.9

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		18	9.7	ug/Kg	☼	05/18/17 03:37	05/18/17 10:16	1
PCB-1221	ND		18	9.5	ug/Kg	☼	05/18/17 03:37	05/18/17 10:16	1
PCB-1232	ND		18	7.3	ug/Kg	☼	05/18/17 03:37	05/18/17 10:16	1
PCB-1242	ND		18	15	ug/Kg	☼	05/18/17 03:37	05/18/17 10:16	1
PCB-1248	**3700**		18	8.8	ug/Kg	☼	05/18/17 03:37	05/18/17 10:16	1
PCB-1254	**770**		18	8.1	ug/Kg	☼	05/18/17 03:37	05/18/17 10:16	1
PCB-1260	**130**		18	12	ug/Kg	☼	05/18/17 03:37	05/18/17 10:16	1
PCB-1262	ND		18	13	ug/Kg	☼	05/18/17 03:37	05/18/17 10:16	1
PCB-1268	ND		18	5.6	ug/Kg	☼	05/18/17 03:37	05/18/17 10:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*65*		*23 - 150*	*05/18/17 03:37*	*05/18/17 10:16*	*1*
DCB Decachlorobiphenyl (Surr)	*70*		*23 - 150*	*05/18/17 03:37*	*05/18/17 10:16*	*1*
Tetrachloro-m-xylene (Surr)	*60*		*27 - 138*	*05/18/17 03:37*	*05/18/17 10:16*	*1*
Tetrachloro-m-xylene (Surr)	*60*		*27 - 138*	*05/18/17 03:37*	*05/18/17 10:16*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**11.1**		0.1	0.1	%			05/17/17 14:39	1
Percent Solids	**88.9**		0.1	0.1	%			05/17/17 14:39	1

Client Sample ID: SSHS-B797-SUB-4-6

Lab Sample ID: 180-66369-43
Date Collected: 05/16/17 15:05
Matrix: Solid
Date Received: 05/17/17 09:05
Percent Solids: 86.5

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		190	100	ug/Kg	☼	05/18/17 03:37	05/18/17 14:38	10
PCB-1221	ND		190	97	ug/Kg	☼	05/18/17 03:37	05/18/17 14:38	10
PCB-1232	ND		190	74	ug/Kg	☼	05/18/17 03:37	05/18/17 14:38	10
PCB-1242	ND		190	150	ug/Kg	☼	05/18/17 03:37	05/18/17 14:38	10
PCB-1248	**6500**		190	90	ug/Kg	☼	05/18/17 03:37	05/18/17 14:38	10
PCB-1254	**4000**		190	82	ug/Kg	☼	05/18/17 03:37	05/18/17 14:38	10
PCB-1260	**950**		190	130	ug/Kg	☼	05/18/17 03:37	05/18/17 14:38	10
PCB-1262	ND		190	130	ug/Kg	☼	05/18/17 03:37	05/18/17 14:38	10
PCB-1268	ND		190	57	ug/Kg	☼	05/18/17 03:37	05/18/17 14:38	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*75*		*23 - 150*	*05/18/17 03:37*	*05/18/17 14:38*	*10*
DCB Decachlorobiphenyl (Surr)	*73*		*23 - 150*	*05/18/17 03:37*	*05/18/17 14:38*	*10*
Tetrachloro-m-xylene (Surr)	*75*		*27 - 138*	*05/18/17 03:37*	*05/18/17 14:38*	*10*
Tetrachloro-m-xylene (Surr)	*65*		*27 - 138*	*05/18/17 03:37*	*05/18/17 14:38*	*10*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**13.5**		0.1	0.1	%			05/17/17 14:39	1
Percent Solids	**86.5**		0.1	0.1	%			05/17/17 14:39	1

Client Sample ID: SSHS-B797-SUB-6-8

Lab Sample ID: 180-66369-44
Date Collected: 05/16/17 15:05
Matrix: Solid
Date Received: 05/17/17 09:05
Percent Solids: 88.2

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		1900	990	ug/Kg	☼	05/18/17 03:37	05/18/17 14:57	100
PCB-1221	ND		1900	970	ug/Kg	☼	05/18/17 03:37	05/18/17 14:57	100
PCB-1232	ND		1900	740	ug/Kg	☼	05/18/17 03:37	05/18/17 14:57	100
PCB-1242	ND		1900	1500	ug/Kg	☼	05/18/17 03:37	05/18/17 14:57	100
PCB-1248	**52000**		1900	890	ug/Kg	☼	05/18/17 03:37	05/18/17 14:57	100
PCB-1254	**79000**		1900	820	ug/Kg	☼	05/18/17 03:37	05/18/17 14:57	100
PCB-1260	**23000**		1900	1200	ug/Kg	☼	05/18/17 03:37	05/18/17 14:57	100
PCB-1262	ND		1900	1300	ug/Kg	☼	05/18/17 03:37	05/18/17 14:57	100
PCB-1268	ND		1900	570	ug/Kg	☼	05/18/17 03:37	05/18/17 14:57	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*0*	*X D*	*23 - 150*	*05/18/17 03:37*	*05/18/17 14:57*	*100*
DCB Decachlorobiphenyl (Surr)	*0*	*X D*	*23 - 150*	*05/18/17 03:37*	*05/18/17 14:57*	*100*
Tetrachloro-m-xylene (Surr)	*0*	*X D*	*27 - 138*	*05/18/17 03:37*	*05/18/17 14:57*	*100*
Tetrachloro-m-xylene (Surr)	*0*	*X D*	*27 - 138*	*05/18/17 03:37*	*05/18/17 14:57*	*100*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**11.8**		0.1	0.1	%			05/17/17 14:39	1
Percent Solids	**88.2**		0.1	0.1	%			05/17/17 14:39	1

Client Sample ID: SSHS-B794-SUB-2-4

Lab Sample ID: 180-66369-45
Date Collected: 05/16/17 15:20
Matrix: Solid
Date Received: 05/17/17 09:05
Percent Solids: 88.3

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		19	10	ug/Kg	☼	05/18/17 03:37	05/18/17 11:12	1
PCB-1221	ND		19	9.8	ug/Kg	☼	05/18/17 03:37	05/18/17 11:12	1
PCB-1232	ND		19	7.5	ug/Kg	☼	05/18/17 03:37	05/18/17 11:12	1
PCB-1242	ND		19	15	ug/Kg	☼	05/18/17 03:37	05/18/17 11:12	1
PCB-1248	**2800**		19	9.0	ug/Kg	☼	05/18/17 03:37	05/18/17 11:12	1
PCB-1254	**2300**		19	8.3	ug/Kg	☼	05/18/17 03:37	05/18/17 11:12	1
PCB-1260	**530**		19	13	ug/Kg	☼	05/18/17 03:37	05/18/17 11:12	1
PCB-1262	ND		19	14	ug/Kg	☼	05/18/17 03:37	05/18/17 11:12	1
PCB-1268	ND		19	5.7	ug/Kg	☼	05/18/17 03:37	05/18/17 11:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*80*		*23 - 150*	*05/18/17 03:37*	*05/18/17 11:12*	*1*
DCB Decachlorobiphenyl (Surr)	*77*		*23 - 150*	*05/18/17 03:37*	*05/18/17 11:12*	*1*
Tetrachloro-m-xylene (Surr)	*78*		*27 - 138*	*05/18/17 03:37*	*05/18/17 11:12*	*1*
Tetrachloro-m-xylene (Surr)	*70*		*27 - 138*	*05/18/17 03:37*	*05/18/17 11:12*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**11.7**		0.1	0.1	%			05/17/17 14:39	1
Percent Solids	**88.3**		0.1	0.1	%			05/17/17 14:39	1

Client Sample ID: SSHS-B794-SUB-4-6

Lab Sample ID: 180-66369-46
Date Collected: 05/16/17 15:25
Matrix: Solid
Date Received: 05/17/17 09:05
Percent Solids: 90.3

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND	F1	180	95	ug/Kg	☼	05/18/17 03:37	05/18/17 15:16	10
PCB-1221	ND		180	93	ug/Kg	☼	05/18/17 03:37	05/18/17 15:16	10
PCB-1232	ND		180	71	ug/Kg	☼	05/18/17 03:37	05/18/17 15:16	10
PCB-1242	ND		180	140	ug/Kg	☼	05/18/17 03:37	05/18/17 15:16	10
PCB-1248	**17000**		180	85	ug/Kg	☼	05/18/17 03:37	05/18/17 15:16	10
PCB-1254	**7900**		180	78	ug/Kg	☼	05/18/17 03:37	05/18/17 15:16	10
PCB-1260	**3000**	**F1**	180	120	ug/Kg	☼	05/18/17 03:37	05/18/17 15:16	10
PCB-1262	ND		180	130	ug/Kg	☼	05/18/17 03:37	05/18/17 15:16	10
PCB-1268	ND		180	54	ug/Kg	☼	05/18/17 03:37	05/18/17 15:16	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*77*		*23 - 150*	*05/18/17 03:37*	*05/18/17 15:16*	*10*
DCB Decachlorobiphenyl (Surr)	*88*		*23 - 150*	*05/18/17 03:37*	*05/18/17 15:16*	*10*
Tetrachloro-m-xylene (Surr)	*75*		*27 - 138*	*05/18/17 03:37*	*05/18/17 15:16*	*10*
Tetrachloro-m-xylene (Surr)	*64*		*27 - 138*	*05/18/17 03:37*	*05/18/17 15:16*	*10*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.7**		0.1	0.1	%			05/17/17 14:39	1
Percent Solids	**90.3**		0.1	0.1	%			05/17/17 14:39	1

Client Sample ID: PS-FD-5

Date Collected: 05/16/17 00:00
Date Received: 05/17/17 09:05

Lab Sample ID: 180-66369-47

Matrix: Solid
Percent Solids: 86.9

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		1900	990	ug/Kg	☼	05/18/17 03:37	05/18/17 16:13	100
PCB-1221	ND		1900	970	ug/Kg	☼	05/18/17 03:37	05/18/17 16:13	100
PCB-1232	ND		1900	740	ug/Kg	☼	05/18/17 03:37	05/18/17 16:13	100
PCB-1242	ND		1900	1500	ug/Kg	☼	05/18/17 03:37	05/18/17 16:13	100
PCB-1248	**69000**		1900	890	ug/Kg	☼	05/18/17 03:37	05/18/17 16:13	100
PCB-1254	**88000**		1900	820	ug/Kg	☼	05/18/17 03:37	05/18/17 16:13	100
PCB-1260	**27000**		1900	1200	ug/Kg	☼	05/18/17 03:37	05/18/17 16:13	100
PCB-1262	ND		1900	1300	ug/Kg	☼	05/18/17 03:37	05/18/17 16:13	100
PCB-1268	ND		1900	570	ug/Kg	☼	05/18/17 03:37	05/18/17 16:13	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*0*	*X D*	*23 - 150*	*05/18/17 03:37*	*05/18/17 16:13*	*100*
DCB Decachlorobiphenyl (Surr)	*0*	*X D*	*23 - 150*	*05/18/17 03:37*	*05/18/17 16:13*	*100*
Tetrachloro-m-xylene (Surr)	*0*	*X D*	*27 - 138*	*05/18/17 03:37*	*05/18/17 16:13*	*100*
Tetrachloro-m-xylene (Surr)	*0*	*X D*	*27 - 138*	*05/18/17 03:37*	*05/18/17 16:13*	*100*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**13.1**		0.1	0.1	%			05/17/17 14:39	1
Percent Solids	**86.9**		0.1	0.1	%			05/17/17 14:39	1

Client Sample ID: PS-FD-6

Date Collected: 05/16/17 00:00
Date Received: 05/17/17 09:05

Lab Sample ID: 180-66369-48

Matrix: Solid
Percent Solids: 82.8

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		20	11	ug/Kg	☼	05/18/17 03:37	05/18/17 12:47	1
PCB-1221	ND		20	10	ug/Kg	☼	05/18/17 03:37	05/18/17 12:47	1
PCB-1232	ND		20	7.9	ug/Kg	☼	05/18/17 03:37	05/18/17 12:47	1
PCB-1242	ND		20	16	ug/Kg	☼	05/18/17 03:37	05/18/17 12:47	1
PCB-1248	ND		20	9.5	ug/Kg	☼	05/18/17 03:37	05/18/17 12:47	1
PCB-1254	**830**		20	8.7	ug/Kg	☼	05/18/17 03:37	05/18/17 12:47	1
PCB-1260	ND		20	13	ug/Kg	☼	05/18/17 03:37	05/18/17 12:47	1
PCB-1262	ND		20	14	ug/Kg	☼	05/18/17 03:37	05/18/17 12:47	1
PCB-1268	ND		20	6.0	ug/Kg	☼	05/18/17 03:37	05/18/17 12:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*69*		*23 - 150*	*05/18/17 03:37*	*05/18/17 12:47*	*1*
DCB Decachlorobiphenyl (Surr)	*74*		*23 - 150*	*05/18/17 03:37*	*05/18/17 12:47*	*1*
Tetrachloro-m-xylene (Surr)	*65*		*27 - 138*	*05/18/17 03:37*	*05/18/17 12:47*	*1*
Tetrachloro-m-xylene (Surr)	*63*		*27 - 138*	*05/18/17 03:37*	*05/18/17 12:47*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**17.2**		0.1	0.1	%			05/17/17 14:39	1
Percent Solids	**82.8**		0.1	0.1	%			05/17/17 14:39	1

Client Sample ID: SSHS-B794-SUB-6-8

Lab Sample ID: 180-66369-49

Date Collected: 05/16/17 15:25
Matrix: Solid
Date Received: 05/17/17 09:05
Percent Solids: 84.8

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		19	10	ug/Kg	☼	05/18/17 03:37	05/18/17 13:04	1
PCB-1221	ND		19	10	ug/Kg	☼	05/18/17 03:37	05/18/17 13:04	1
PCB-1232	ND		19	7.6	ug/Kg	☼	05/18/17 03:37	05/18/17 13:04	1
PCB-1242	ND		19	15	ug/Kg	☼	05/18/17 03:37	05/18/17 13:04	1
PCB-1248	ND		19	9.2	ug/Kg	☼	05/18/17 03:37	05/18/17 13:04	1
PCB-1254	**780**		19	8.5	ug/Kg	☼	05/18/17 03:37	05/18/17 13:04	1
PCB-1260	**410**		19	13	ug/Kg	☼	05/18/17 03:37	05/18/17 13:04	1
PCB-1262	ND		19	14	ug/Kg	☼	05/18/17 03:37	05/18/17 13:04	1
PCB-1268	ND		19	5.9	ug/Kg	☼	05/18/17 03:37	05/18/17 13:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*77*		*23 - 150*	*05/18/17 03:37*	*05/18/17 13:04*	*1*
DCB Decachlorobiphenyl (Surr)	*81*		*23 - 150*	*05/18/17 03:37*	*05/18/17 13:04*	*1*
Tetrachloro-m-xylene (Surr)	*76*		*27 - 138*	*05/18/17 03:37*	*05/18/17 13:04*	*1*
Tetrachloro-m-xylene (Surr)	*73*		*27 - 138*	*05/18/17 03:37*	*05/18/17 13:04*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**15.2**		0.1	0.1	%			05/17/17 14:39	1
Percent Solids	**84.8**		0.1	0.1	%			05/17/17 14:39	1

Client Sample ID: SSHS-B812-SUB-8-10

Lab Sample ID: 180-66369-51

Date Collected: 05/15/17 13:50
Matrix: Solid
Date Received: 05/17/17 09:05
Percent Solids: 93.3

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		18	9.4	ug/Kg	☼	05/18/17 03:37	05/18/17 13:23	1
PCB-1221	ND		18	9.2	ug/Kg	☼	05/18/17 03:37	05/18/17 13:23	1
PCB-1232	ND		18	7.0	ug/Kg	☼	05/18/17 03:37	05/18/17 13:23	1
PCB-1242	ND		18	14	ug/Kg	☼	05/18/17 03:37	05/18/17 13:23	1
PCB-1248	**550**		18	8.5	ug/Kg	☼	05/18/17 03:37	05/18/17 13:23	1
PCB-1254	**150**		18	7.8	ug/Kg	☼	05/18/17 03:37	05/18/17 13:23	1
PCB-1260	**21**		18	12	ug/Kg	☼	05/18/17 03:37	05/18/17 13:23	1
PCB-1262	ND		18	13	ug/Kg	☼	05/18/17 03:37	05/18/17 13:23	1
PCB-1268	ND		18	5.4	ug/Kg	☼	05/18/17 03:37	05/18/17 13:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*68*		*23 - 150*	*05/18/17 03:37*	*05/18/17 13:23*	*1*
DCB Decachlorobiphenyl (Surr)	*68*		*23 - 150*	*05/18/17 03:37*	*05/18/17 13:23*	*1*
Tetrachloro-m-xylene (Surr)	*65*		*27 - 138*	*05/18/17 03:37*	*05/18/17 13:23*	*1*
Tetrachloro-m-xylene (Surr)	*59*		*27 - 138*	*05/18/17 03:37*	*05/18/17 13:23*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**6.7**		0.1	0.1	%			05/17/17 14:39	1
Percent Solids	**93.3**		0.1	0.1	%			05/17/17 14:39	1

Client Sample ID: SSHS-B812-SUB-12-14

Lab Sample ID: 180-66369-53

Date Collected: 05/15/17 13:55
Matrix: Solid
Date Received: 05/17/17 09:05
Percent Solids: 90.5

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		180	95	ug/Kg	☼	05/18/17 03:37	05/18/17 15:42	10
PCB-1221	ND		180	93	ug/Kg	☼	05/18/17 03:37	05/18/17 15:42	10
PCB-1232	ND		180	71	ug/Kg	☼	05/18/17 03:37	05/18/17 15:42	10
PCB-1242	ND		180	140	ug/Kg	☼	05/18/17 03:37	05/18/17 15:42	10
PCB-1248	**9600**		180	86	ug/Kg	☼	05/18/17 03:37	05/18/17 15:42	10
PCB-1254	**2600**		180	79	ug/Kg	☼	05/18/17 03:37	05/18/17 15:42	10
PCB-1260	**640**		180	120	ug/Kg	☼	05/18/17 03:37	05/18/17 15:42	10
PCB-1262	ND		180	130	ug/Kg	☼	05/18/17 03:37	05/18/17 15:42	10
PCB-1268	ND		180	55	ug/Kg	☼	05/18/17 03:37	05/18/17 15:42	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*91*		*23 - 150*	*05/18/17 03:37*	*05/18/17 15:42*	*10*
DCB Decachlorobiphenyl (Surr)	*102*		*23 - 150*	*05/18/17 03:37*	*05/18/17 15:42*	*10*
Tetrachloro-m-xylene (Surr)	*66*		*27 - 138*	*05/18/17 03:37*	*05/18/17 15:42*	*10*
Tetrachloro-m-xylene (Surr)	*74*		*27 - 138*	*05/18/17 03:37*	*05/18/17 15:42*	*10*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.5**		0.1	0.1	%			05/17/17 14:39	1
Percent Solids	**90.5**		0.1	0.1	%			05/17/17 14:39	1

Client Sample ID: SSHS-B807-SUB-8-10

Lab Sample ID: 180-66369-57

Date Collected: 05/15/17 14:20
Matrix: Solid
Date Received: 05/17/17 09:05
Percent Solids: 90.7

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		18	9.4	ug/Kg	☼	05/18/17 03:37	05/18/17 11:21	1
PCB-1221	ND		18	9.2	ug/Kg	☼	05/18/17 03:37	05/18/17 11:21	1
PCB-1232	ND		18	7.0	ug/Kg	☼	05/18/17 03:37	05/18/17 11:21	1
PCB-1242	ND		18	14	ug/Kg	☼	05/18/17 03:37	05/18/17 11:21	1
PCB-1248	**1200**		18	8.5	ug/Kg	☼	05/18/17 03:37	05/18/17 11:21	1
PCB-1254	**600**		18	7.8	ug/Kg	☼	05/18/17 03:37	05/18/17 11:21	1
PCB-1260	**110**		18	12	ug/Kg	☼	05/18/17 03:37	05/18/17 11:21	1
PCB-1262	ND		18	13	ug/Kg	☼	05/18/17 03:37	05/18/17 11:21	1
PCB-1268	ND		18	5.4	ug/Kg	☼	05/18/17 03:37	05/18/17 11:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*67*		*23 - 150*	*05/18/17 03:37*	*05/18/17 11:21*	*1*
DCB Decachlorobiphenyl (Surr)	*68*		*23 - 150*	*05/18/17 03:37*	*05/18/17 11:21*	*1*
Tetrachloro-m-xylene (Surr)	*68*		*27 - 138*	*05/18/17 03:37*	*05/18/17 11:21*	*1*
Tetrachloro-m-xylene (Surr)	*59*		*27 - 138*	*05/18/17 03:37*	*05/18/17 11:21*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.3**		0.1	0.1	%			05/17/17 14:39	1
Percent Solids	**90.7**		0.1	0.1	%			05/17/17 14:39	1

Client Sample ID: SSHS-B787-SUB-8-10

Lab Sample ID: 180-66369-61
Date Collected: 05/15/17 15:25
Matrix: Solid
Date Received: 05/17/17 09:05
Percent Solids: 93.5

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		18	9.5	ug/Kg	☼	05/18/17 03:37	05/18/17 11:41	1
PCB-1221	ND		18	9.2	ug/Kg	☼	05/18/17 03:37	05/18/17 11:41	1
PCB-1232	ND		18	7.1	ug/Kg	☼	05/18/17 03:37	05/18/17 11:41	1
PCB-1242	ND		18	14	ug/Kg	☼	05/18/17 03:37	05/18/17 11:41	1
PCB-1248	**620**		18	8.5	ug/Kg	☼	05/18/17 03:37	05/18/17 11:41	1
PCB-1254	**250**		18	7.8	ug/Kg	☼	05/18/17 03:37	05/18/17 11:41	1
PCB-1260	**37**		18	12	ug/Kg	☼	05/18/17 03:37	05/18/17 11:41	1
PCB-1262	ND		18	13	ug/Kg	☼	05/18/17 03:37	05/18/17 11:41	1
PCB-1268	ND		18	5.4	ug/Kg	☼	05/18/17 03:37	05/18/17 11:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*63*		*23 - 150*	*05/18/17 03:37*	*05/18/17 11:41*	*1*
DCB Decachlorobiphenyl (Surr)	*65*		*23 - 150*	*05/18/17 03:37*	*05/18/17 11:41*	*1*
Tetrachloro-m-xylene (Surr)	*67*		*27 - 138*	*05/18/17 03:37*	*05/18/17 11:41*	*1*
Tetrachloro-m-xylene (Surr)	*60*		*27 - 138*	*05/18/17 03:37*	*05/18/17 11:41*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**6.5**		0.1	0.1	%			05/17/17 14:39	1
Percent Solids	**93.5**		0.1	0.1	%			05/17/17 14:39	1

Client Sample ID: PS-FD-1

Lab Sample ID: 180-66369-62
Date Collected: 05/15/17 00:00
Matrix: Solid
Date Received: 05/17/17 09:05
Percent Solids: 92.1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		18	9.5	ug/Kg	☼	05/18/17 03:37	05/18/17 12:01	1
PCB-1221	ND		18	9.2	ug/Kg	☼	05/18/17 03:37	05/18/17 12:01	1
PCB-1232	ND		18	7.1	ug/Kg	☼	05/18/17 03:37	05/18/17 12:01	1
PCB-1242	ND		18	14	ug/Kg	☼	05/18/17 03:37	05/18/17 12:01	1
PCB-1248	**1600**		18	8.5	ug/Kg	☼	05/18/17 03:37	05/18/17 12:01	1
PCB-1254	**790**		18	7.8	ug/Kg	☼	05/18/17 03:37	05/18/17 12:01	1
PCB-1260	**160**		18	12	ug/Kg	☼	05/18/17 03:37	05/18/17 12:01	1
PCB-1262	ND		18	13	ug/Kg	☼	05/18/17 03:37	05/18/17 12:01	1
PCB-1268	ND		18	5.4	ug/Kg	☼	05/18/17 03:37	05/18/17 12:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*67*		*23 - 150*	*05/18/17 03:37*	*05/18/17 12:01*	*1*
DCB Decachlorobiphenyl (Surr)	*70*		*23 - 150*	*05/18/17 03:37*	*05/18/17 12:01*	*1*
Tetrachloro-m-xylene (Surr)	*67*		*27 - 138*	*05/18/17 03:37*	*05/18/17 12:01*	*1*
Tetrachloro-m-xylene (Surr)	*60*		*27 - 138*	*05/18/17 03:37*	*05/18/17 12:01*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**7.9**		0.1	0.1	%			05/17/17 14:39	1
Percent Solids	**92.1**		0.1	0.1	%			05/17/17 14:39	1

Client Sample ID: SSHS-B793-SUB-4-6 — Lab Sample ID: 180-66369-63

Date Collected: 05/15/17 15:50 — **Matrix: Solid**
Date Received: 05/17/17 09:05 — **Percent Solids: 84.7**

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		9600	5100	ug/Kg	☼	05/18/17 03:37	05/18/17 12:41	500
PCB-1221	ND		9600	5000	ug/Kg	☼	05/18/17 03:37	05/18/17 12:41	500
PCB-1232	ND		9600	3800	ug/Kg	☼	05/18/17 03:37	05/18/17 12:41	500
PCB-1242	ND		9600	7600	ug/Kg	☼	05/18/17 03:37	05/18/17 12:41	500
PCB-1248	**990000**		9600	4600	ug/Kg	☼	05/18/17 03:37	05/18/17 12:41	500
PCB-1254	**260000**		9600	4200	ug/Kg	☼	05/18/17 03:37	05/18/17 12:41	500
PCB-1260	**58000**		9600	6400	ug/Kg	☼	05/18/17 03:37	05/18/17 12:41	500
PCB-1262	ND		9600	6900	ug/Kg	☼	05/18/17 03:37	05/18/17 12:41	500
PCB-1268	ND		9600	2900	ug/Kg	☼	05/18/17 03:37	05/18/17 12:41	500

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*0*	*X D*	*23 - 150*	*05/18/17 03:37*	*05/18/17 12:41*	*500*
DCB Decachlorobiphenyl (Surr)	*0*	*X D*	*23 - 150*	*05/18/17 03:37*	*05/18/17 12:41*	*500*
Tetrachloro-m-xylene (Surr)	*0*	*X D*	*27 - 138*	*05/18/17 03:37*	*05/18/17 12:41*	*500*
Tetrachloro-m-xylene (Surr)	*0*	*X D*	*27 - 138*	*05/18/17 03:37*	*05/18/17 12:41*	*500*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**15.3**		0.1	0.1	%			05/17/17 14:39	1
Percent Solids	**84.7**		0.1	0.1	%			05/17/17 14:39	1

Client Sample ID: SSHS-B793-SUB-6-8 — Lab Sample ID: 180-66369-64

Date Collected: 05/15/17 15:50 — **Matrix: Solid**
Date Received: 05/17/17 09:05 — **Percent Solids: 87.9**

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		9400	5000	ug/Kg	☼	05/18/17 03:37	05/18/17 16:02	500
PCB-1221	ND		9400	4800	ug/Kg	☼	05/18/17 03:37	05/18/17 16:02	500
PCB-1232	ND		9400	3700	ug/Kg	☼	05/18/17 03:37	05/18/17 16:02	500
PCB-1242	ND		9400	7400	ug/Kg	☼	05/18/17 03:37	05/18/17 16:02	500
PCB-1248	**2800000**		9400	4500	ug/Kg	☼	05/18/17 03:37	05/18/17 16:02	500
PCB-1254	**760000**		9400	4100	ug/Kg	☼	05/18/17 03:37	05/18/17 16:02	500
PCB-1260	**170000**		9400	6200	ug/Kg	☼	05/18/17 03:37	05/18/17 16:02	500
PCB-1262	ND		9400	6700	ug/Kg	☼	05/18/17 03:37	05/18/17 16:02	500
PCB-1268	ND		9400	2800	ug/Kg	☼	05/18/17 03:37	05/18/17 16:02	500

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*0*	*X D*	*23 - 150*	*05/18/17 03:37*	*05/18/17 16:02*	*500*
DCB Decachlorobiphenyl (Surr)	*0*	*X D*	*23 - 150*	*05/18/17 03:37*	*05/18/17 16:02*	*500*
Tetrachloro-m-xylene (Surr)	*0*	*X D*	*27 - 138*	*05/18/17 03:37*	*05/18/17 16:02*	*500*
Tetrachloro-m-xylene (Surr)	*0*	*X D*	*27 - 138*	*05/18/17 03:37*	*05/18/17 16:02*	*500*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**12.1**		0.1	0.1	%			05/17/17 14:39	1
Percent Solids	**87.9**		0.1	0.1	%			05/17/17 14:39	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 180-211476/1-C
Matrix: Solid
Analysis Batch: 211502

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 211476

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		17	8.8	ug/Kg		05/17/17 14:59	05/17/17 20:47	1
PCB-1221	ND		17	8.6	ug/Kg		05/17/17 14:59	05/17/17 20:47	1
PCB-1232	ND		17	6.6	ug/Kg		05/17/17 14:59	05/17/17 20:47	1
PCB-1242	ND		17	13	ug/Kg		05/17/17 14:59	05/17/17 20:47	1
PCB-1248	ND		17	8.0	ug/Kg		05/17/17 14:59	05/17/17 20:47	1
PCB-1254	ND		17	7.3	ug/Kg		05/17/17 14:59	05/17/17 20:47	1
PCB-1260	ND		17	11	ug/Kg		05/17/17 14:59	05/17/17 20:47	1
PCB-1262	ND		17	12	ug/Kg		05/17/17 14:59	05/17/17 20:47	1
PCB-1268	ND		17	5.1	ug/Kg		05/17/17 14:59	05/17/17 20:47	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*75*		*23 - 150*	*05/17/17 14:59*	*05/17/17 20:47*	*1*
DCB Decachlorobiphenyl (Surr)	*73*		*23 - 150*	*05/17/17 14:59*	*05/17/17 20:47*	*1*
Tetrachloro-m-xylene (Surr)	*78*		*27 - 138*	*05/17/17 14:59*	*05/17/17 20:47*	*1*
Tetrachloro-m-xylene (Surr)	*80*		*27 - 138*	*05/17/17 14:59*	*05/17/17 20:47*	*1*

Lab Sample ID: LCS 180-211476/2-C
Matrix: Solid
Analysis Batch: 211502

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 211476

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			1330	928		ug/Kg		70	52 - 126		
PCB-1260			1330	980		ug/Kg		73	50 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*74*		*23 - 150*
DCB Decachlorobiphenyl (Surr)	*70*		*23 - 150*
Tetrachloro-m-xylene (Surr)	*71*		*27 - 138*
Tetrachloro-m-xylene (Surr)	*72*		*27 - 138*

Lab Sample ID: 180-66369-19 MS
Matrix: Solid
Analysis Batch: 211502

Client Sample ID: SSHS-B803-SUB-6-8
Prep Type: Total/NA
Prep Batch: 211476

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016	ND		1490	1070		ug/Kg	☼	72	52 - 126		
PCB-1260	26		1490	939		ug/Kg	☼	61	50 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*63*		*23 - 150*
DCB Decachlorobiphenyl (Surr)	*70*		*23 - 150*
Tetrachloro-m-xylene (Surr)	*70*		*27 - 138*
Tetrachloro-m-xylene (Surr)	*67*		*27 - 138*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 180-66369-19 MSD
Matrix: Solid
Analysis Batch: 211502

Client Sample ID: SSHS-B803-SUB-6-8
Prep Type: Total/NA
Prep Batch: 211476

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	ND		1490	1140		ug/Kg	☼	77	52 - 126	7	20
PCB-1260	26		1490	1000		ug/Kg	☼	65	50 - 130	6	21

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*64*		*23 - 150*
DCB Decachlorobiphenyl (Surr)	*70*		*23 - 150*
Tetrachloro-m-xylene (Surr)	*67*		*27 - 138*
Tetrachloro-m-xylene (Surr)	*65*		*27 - 138*

Lab Sample ID: MB 180-211516/1-A
Matrix: Solid
Analysis Batch: 211517

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 211516

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		17	8.8	ug/Kg		05/18/17 03:37	05/18/17 09:02	1
PCB-1221	ND		17	8.6	ug/Kg		05/18/17 03:37	05/18/17 09:02	1
PCB-1232	ND		17	6.6	ug/Kg		05/18/17 03:37	05/18/17 09:02	1
PCB-1242	ND		17	13	ug/Kg		05/18/17 03:37	05/18/17 09:02	1
PCB-1248	ND		17	8.0	ug/Kg		05/18/17 03:37	05/18/17 09:02	1
PCB-1254	ND		17	7.3	ug/Kg		05/18/17 03:37	05/18/17 09:02	1
PCB-1260	ND		17	11	ug/Kg		05/18/17 03:37	05/18/17 09:02	1
PCB-1262	ND		17	12	ug/Kg		05/18/17 03:37	05/18/17 09:02	1
PCB-1268	ND		17	5.1	ug/Kg		05/18/17 03:37	05/18/17 09:02	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*96*		*23 - 150*	*05/18/17 03:37*	*05/18/17 09:02*	*1*
DCB Decachlorobiphenyl (Surr)	*101*		*23 - 150*	*05/18/17 03:37*	*05/18/17 09:02*	*1*
Tetrachloro-m-xylene (Surr)	*109*		*27 - 138*	*05/18/17 03:37*	*05/18/17 09:02*	*1*
Tetrachloro-m-xylene (Surr)	*102*		*27 - 138*	*05/18/17 03:37*	*05/18/17 09:02*	*1*

Lab Sample ID: MB 180-211516/1-A
Matrix: Solid
Analysis Batch: 211518

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 211516

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		17	8.8	ug/Kg		05/18/17 03:37	05/18/17 10:40	1
PCB-1221	ND		17	8.6	ug/Kg		05/18/17 03:37	05/18/17 10:40	1
PCB-1232	ND		17	6.6	ug/Kg		05/18/17 03:37	05/18/17 10:40	1
PCB-1242	ND		17	13	ug/Kg		05/18/17 03:37	05/18/17 10:40	1
PCB-1248	ND		17	8.0	ug/Kg		05/18/17 03:37	05/18/17 10:40	1
PCB-1254	ND		17	7.3	ug/Kg		05/18/17 03:37	05/18/17 10:40	1
PCB-1260	ND		17	11	ug/Kg		05/18/17 03:37	05/18/17 10:40	1
PCB-1262	ND		17	12	ug/Kg		05/18/17 03:37	05/18/17 10:40	1
PCB-1268	ND		17	5.1	ug/Kg		05/18/17 03:37	05/18/17 10:40	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*88*		*23 - 150*	*05/18/17 03:37*	*05/18/17 10:40*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: MB 180-211516/1-A
Matrix: Solid
Analysis Batch: 211518

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 211516

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	92		23 - 150	05/18/17 03:37	05/18/17 10:40	1
Tetrachloro-m-xylene (Surr)	99		27 - 138	05/18/17 03:37	05/18/17 10:40	1
Tetrachloro-m-xylene (Surr)	92		27 - 138	05/18/17 03:37	05/18/17 10:40	1

Lab Sample ID: LCS 180-211516/2-A
Matrix: Solid
Analysis Batch: 211517

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 211516

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			1330	1030		ug/Kg		77	52 - 126		
PCB-1260			1330	1000		ug/Kg		75	50 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	75		23 - 150
DCB Decachlorobiphenyl (Surr)	73		23 - 150
Tetrachloro-m-xylene (Surr)	75		27 - 138
Tetrachloro-m-xylene (Surr)	72		27 - 138

Lab Sample ID: 180-66369-46 MS
Matrix: Solid
Analysis Batch: 211517

Client Sample ID: SSHS-B794-SUB-4-6
Prep Type: Total/NA
Prep Batch: 211516

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016	ND	F1	1450	15400	F1	ug/Kg	☼	1061	52 - 126		
PCB-1260	3000	F1	1450	4420		ug/Kg	☼	99	50 - 130		

Surrogate	MS %Recovery	MS Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	80	p	23 - 150
DCB Decachlorobiphenyl (Surr)	98		23 - 150
Tetrachloro-m-xylene (Surr)	76		27 - 138
Tetrachloro-m-xylene (Surr)	67		27 - 138

Lab Sample ID: 180-66369-46 MSD
Matrix: Solid
Analysis Batch: 211517

Client Sample ID: SSHS-B794-SUB-4-6
Prep Type: Total/NA
Prep Batch: 211516

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	ND	F1	1480	15100	F1	ug/Kg	☼	1021	52 - 126	2	20
PCB-1260	3000	F1	1480	4370		ug/Kg	☼	94	50 - 130	1	21

Surrogate	MSD %Recovery	MSD Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	76	p	23 - 150
DCB Decachlorobiphenyl (Surr)	92		23 - 150
Tetrachloro-m-xylene (Surr)	74		27 - 138
Tetrachloro-m-xylene (Surr)	65		27 - 138

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography - DL

Lab Sample ID: 180-66369-63 MS
Matrix: Solid
Analysis Batch: 211518

Client Sample ID: SSHS-B793-SUB-4-6
Prep Type: Total/NA
Prep Batch: 211516

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016 - DL	ND		1540	ND	D	ug/Kg	☼	NC	52 - 126
PCB-1260 - DL	58000		1540	88800	4	ug/Kg	☼	2018	50 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr) - DL	*0*	*X D*	*23 - 150*
DCB Decachlorobiphenyl (Surr) - DL	*0*	*X D*	*23 - 150*
Tetrachloro-m-xylene (Surr) - DL	*0*	*X D*	*27 - 138*
Tetrachloro-m-xylene (Surr) - DL	*0*	*X D*	*27 - 138*

Lab Sample ID: 180-66369-63 MSD
Matrix: Solid
Analysis Batch: 211518

Client Sample ID: SSHS-B793-SUB-4-6
Prep Type: Total/NA
Prep Batch: 211516

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016 - DL	ND		1530	ND	D	ug/Kg	☼	NC	52 - 126	NC	20
PCB-1260 - DL	58000		1530	88800	4	ug/Kg	☼	2032	50 - 130	0	21

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr) - DL	*0*	*X D*	*23 - 150*
DCB Decachlorobiphenyl (Surr) - DL	*0*	*X D*	*23 - 150*
Tetrachloro-m-xylene (Surr) - DL	*0*	*X D*	*27 - 138*
Tetrachloro-m-xylene (Surr) - DL	*0*	*X D*	*27 - 138*

Method: 2540G - SM 2540G

Lab Sample ID: 180-66369-1 DU
Matrix: Solid
Analysis Batch: 211469

Client Sample ID: SSHS-B792-SUB-8-10
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	9.3		10.3		%		9	20
Percent Solids	90.7		89.7		%		1	20

Lab Sample ID: 180-66369-13 DU
Matrix: Solid
Analysis Batch: 211469

Client Sample ID: SSHS-B795-SUB-8-10
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	11.0		12.2		%		10	20
Percent Solids	89.0		87.8		%		1	20

Method: 2540G - SM 2540G (Continued)

Lab Sample ID: 180-66369-33 DU
Matrix: Solid
Analysis Batch: 211471

Client Sample ID: SSHS-B798-SUB-2-4
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	8.5			10.0		%				16	20
Percent Solids	91.5			90.0		%				2	20

Lab Sample ID: 180-66369-49 DU
Matrix: Solid
Analysis Batch: 211471

Client Sample ID: SSHS-B794-SUB-6-8
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	15.2			16.7		%				9	20
Percent Solids	84.8			83.3		%				2	20

GC Semi VOA

Prep Batch: 211476

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-66369-1	SSHS-B792-SUB-8-10	Total/NA	Solid	3541	
180-66369-2	SSHS-B792-SUB-10-12	Total/NA	Solid	3541	
180-66369-3	SSHS-B792-SUB-12-14	Total/NA	Solid	3541	
180-66369-5	SSHS-B791-SUB-2-4	Total/NA	Solid	3541	
180-66369-7	SSHS-B796-SUB-4-6	Total/NA	Solid	3541	
180-66369-8	SSHS-B796-SUB-6-8	Total/NA	Solid	3541	
180-66369-9	SSHS-B795-SUB-2-4	Total/NA	Solid	3541	
180-66369-10	SSHS-B795-SUB-4-6	Total/NA	Solid	3541	
180-66369-11	SSHS-B795-SUB-6-8	Total/NA	Solid	3541	
180-66369-12	PS-FD-2	Total/NA	Solid	3541	
180-66369-13	SSHS-B795-SUB-8-10	Total/NA	Solid	3541	
180-66369-16	SSHS-B782-SUB-2-4	Total/NA	Solid	3541	
180-66369-18	SSHS-B803-SUB-4-6	Total/NA	Solid	3541	
180-66369-19	SSHS-B803-SUB-6-8	Total/NA	Solid	3541	
180-66369-24	PS-FD-3	Total/NA	Solid	3541	
180-66369-25	SSHS-B804-SUB-4-6	Total/NA	Solid	3541	
180-66369-27	SSHS-B804-SUB-8-10	Total/NA	Solid	3541	
180-66369-28	SSHS-B804-SUB-10-12	Total/NA	Solid	3541	
180-66369-29	SSHS-B804-SUB-12-14	Total/NA	Solid	3541	
180-66369-32	SSHS-B811-SUB-12-14	Total/NA	Solid	3541	
MB 180-211476/1-C	Method Blank	Total/NA	Solid	3541	
LCS 180-211476/2-C	Lab Control Sample	Total/NA	Solid	3541	
180-66369-19 MS	SSHS-B803-SUB-6-8	Total/NA	Solid	3541	
180-66369-19 MSD	SSHS-B803-SUB-6-8	Total/NA	Solid	3541	

Analysis Batch: 211502

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-66369-1	SSHS-B792-SUB-8-10	Total/NA	Solid	8082A	211506
180-66369-2	SSHS-B792-SUB-10-12	Total/NA	Solid	8082A	211506
180-66369-3	SSHS-B792-SUB-12-14	Total/NA	Solid	8082A	211506
180-66369-5	SSHS-B791-SUB-2-4	Total/NA	Solid	8082A	211506
180-66369-7	SSHS-B796-SUB-4-6	Total/NA	Solid	8082A	211506
180-66369-8	SSHS-B796-SUB-6-8	Total/NA	Solid	8082A	211506
180-66369-9	SSHS-B795-SUB-2-4	Total/NA	Solid	8082A	211506
180-66369-10	SSHS-B795-SUB-4-6	Total/NA	Solid	8082A	211506
180-66369-11	SSHS-B795-SUB-6-8	Total/NA	Solid	8082A	211506
180-66369-12	PS-FD-2	Total/NA	Solid	8082A	211506
180-66369-13	SSHS-B795-SUB-8-10	Total/NA	Solid	8082A	211506
180-66369-16	SSHS-B782-SUB-2-4	Total/NA	Solid	8082A	211506
180-66369-18	SSHS-B803-SUB-4-6	Total/NA	Solid	8082A	211506
180-66369-19	SSHS-B803-SUB-6-8	Total/NA	Solid	8082A	211506
180-66369-24	PS-FD-3	Total/NA	Solid	8082A	211506
180-66369-25	SSHS-B804-SUB-4-6	Total/NA	Solid	8082A	211506
180-66369-27	SSHS-B804-SUB-8-10	Total/NA	Solid	8082A	211506
180-66369-28	SSHS-B804-SUB-10-12	Total/NA	Solid	8082A	211506
180-66369-29	SSHS-B804-SUB-12-14	Total/NA	Solid	8082A	211506
180-66369-32	SSHS-B811-SUB-12-14	Total/NA	Solid	8082A	211506
MB 180-211476/1-C	Method Blank	Total/NA	Solid	8082A	211506
LCS 180-211476/2-C	Lab Control Sample	Total/NA	Solid	8082A	211506
180-66369-19 MS	SSHS-B803-SUB-6-8	Total/NA	Solid	8082A	211506
180-66369-19 MSD	SSHS-B803-SUB-6-8	Total/NA	Solid	8082A	211506

QC Association Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North

TestAmerica Job ID: 180-66369-1

Cleanup Batch: 211504

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-66369-1	SSHS-B792-SUB-8-10	Total/NA	Solid	3665A	211476
180-66369-2	SSHS-B792-SUB-10-12	Total/NA	Solid	3665A	211476
180-66369-3	SSHS-B792-SUB-12-14	Total/NA	Solid	3665A	211476
180-66369-5	SSHS-B791-SUB-2-4	Total/NA	Solid	3665A	211476
180-66369-7	SSHS-B796-SUB-4-6	Total/NA	Solid	3665A	211476
180-66369-8	SSHS-B796-SUB-6-8	Total/NA	Solid	3665A	211476
180-66369-9	SSHS-B795-SUB-2-4	Total/NA	Solid	3665A	211476
180-66369-10	SSHS-B795-SUB-4-6	Total/NA	Solid	3665A	211476
180-66369-11	SSHS-B795-SUB-6-8	Total/NA	Solid	3665A	211476
180-66369-12	PS-FD-2	Total/NA	Solid	3665A	211476
180-66369-13	SSHS-B795-SUB-8-10	Total/NA	Solid	3665A	211476
180-66369-16	SSHS-B782-SUB-2-4	Total/NA	Solid	3665A	211476
180-66369-18	SSHS-B803-SUB-4-6	Total/NA	Solid	3665A	211476
180-66369-19	SSHS-B803-SUB-6-8	Total/NA	Solid	3665A	211476
180-66369-24	PS-FD-3	Total/NA	Solid	3665A	211476
180-66369-25	SSHS-B804-SUB-4-6	Total/NA	Solid	3665A	211476
180-66369-27	SSHS-B804-SUB-8-10	Total/NA	Solid	3665A	211476
180-66369-28	SSHS-B804-SUB-10-12	Total/NA	Solid	3665A	211476
180-66369-29	SSHS-B804-SUB-12-14	Total/NA	Solid	3665A	211476
180-66369-32	SSHS-B811-SUB-12-14	Total/NA	Solid	3665A	211476
MB 180-211476/1-C	Method Blank	Total/NA	Solid	3665A	211476
LCS 180-211476/2-C	Lab Control Sample	Total/NA	Solid	3665A	211476
180-66369-19 MS	SSHS-B803-SUB-6-8	Total/NA	Solid	3665A	211476
180-66369-19 MSD	SSHS-B803-SUB-6-8	Total/NA	Solid	3665A	211476

Cleanup Batch: 211506

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-66369-1	SSHS-B792-SUB-8-10	Total/NA	Solid	3660B	211504
180-66369-2	SSHS-B792-SUB-10-12	Total/NA	Solid	3660B	211504
180-66369-3	SSHS-B792-SUB-12-14	Total/NA	Solid	3660B	211504
180-66369-5	SSHS-B791-SUB-2-4	Total/NA	Solid	3660B	211504
180-66369-7	SSHS-B796-SUB-4-6	Total/NA	Solid	3660B	211504
180-66369-8	SSHS-B796-SUB-6-8	Total/NA	Solid	3660B	211504
180-66369-9	SSHS-B795-SUB-2-4	Total/NA	Solid	3660B	211504
180-66369-10	SSHS-B795-SUB-4-6	Total/NA	Solid	3660B	211504
180-66369-11	SSHS-B795-SUB-6-8	Total/NA	Solid	3660B	211504
180-66369-12	PS-FD-2	Total/NA	Solid	3660B	211504
180-66369-13	SSHS-B795-SUB-8-10	Total/NA	Solid	3660B	211504
180-66369-16	SSHS-B782-SUB-2-4	Total/NA	Solid	3660B	211504
180-66369-18	SSHS-B803-SUB-4-6	Total/NA	Solid	3660B	211504
180-66369-19	SSHS-B803-SUB-6-8	Total/NA	Solid	3660B	211504
180-66369-24	PS-FD-3	Total/NA	Solid	3660B	211504
180-66369-25	SSHS-B804-SUB-4-6	Total/NA	Solid	3660B	211504
180-66369-27	SSHS-B804-SUB-8-10	Total/NA	Solid	3660B	211504
180-66369-28	SSHS-B804-SUB-10-12	Total/NA	Solid	3660B	211504
180-66369-29	SSHS-B804-SUB-12-14	Total/NA	Solid	3660B	211504
180-66369-32	SSHS-B811-SUB-12-14	Total/NA	Solid	3660B	211504
MB 180-211476/1-C	Method Blank	Total/NA	Solid	3660B	211504
LCS 180-211476/2-C	Lab Control Sample	Total/NA	Solid	3660B	211504
180-66369-19 MS	SSHS-B803-SUB-6-8	Total/NA	Solid	3660B	211504
180-66369-19 MSD	SSHS-B803-SUB-6-8	Total/NA	Solid	3660B	211504

GC Semi VOA (Continued)

Prep Batch: 211516

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-66369-33	SSHS-B798-SUB-2-4	Total/NA	Solid	3541	
180-66369-35	SSHS-B798-SUB-8-10	Total/NA	Solid	3541	
180-66369-36	PS-FD-4	Total/NA	Solid	3541	
180-66369-37	SSHS-B798-SUB-10-12	Total/NA	Solid	3541	
180-66369-43	SSHS-B797-SUB-4-6	Total/NA	Solid	3541	
180-66369-44	SSHS-B797-SUB-6-8	Total/NA	Solid	3541	
180-66369-45	SSHS-B794-SUB-2-4	Total/NA	Solid	3541	
180-66369-46	SSHS-B794-SUB-4-6	Total/NA	Solid	3541	
180-66369-47	PS-FD-5	Total/NA	Solid	3541	
180-66369-48	PS-FD-6	Total/NA	Solid	3541	
180-66369-49	SSHS-B794-SUB-6-8	Total/NA	Solid	3541	
180-66369-51	SSHS-B812-SUB-8-10	Total/NA	Solid	3541	
180-66369-53	SSHS-B812-SUB-12-14	Total/NA	Solid	3541	
180-66369-57	SSHS-B807-SUB-8-10	Total/NA	Solid	3541	
180-66369-61	SSHS-B787-SUB-8-10	Total/NA	Solid	3541	
180-66369-62	PS-FD-1	Total/NA	Solid	3541	
180-66369-63	SSHS-B793-SUB-4-6	Total/NA	Solid	3541	
180-66369-64	SSHS-B793-SUB-6-8	Total/NA	Solid	3541	
MB 180-211516/1-A	Method Blank	Total/NA	Solid	3541	
LCS 180-211516/2-A	Lab Control Sample	Total/NA	Solid	3541	
180-66369-46 MS	SSHS-B794-SUB-4-6	Total/NA	Solid	3541	
180-66369-46 MSD	SSHS-B794-SUB-4-6	Total/NA	Solid	3541	
180-66369-63 MS - DL	SSHS-B793-SUB-4-6	Total/NA	Solid	3541	
180-66369-63 MSD - DL	SSHS-B793-SUB-4-6	Total/NA	Solid	3541	

Analysis Batch: 211517

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-66369-33	SSHS-B798-SUB-2-4	Total/NA	Solid	8082A	211551
180-66369-35	SSHS-B798-SUB-8-10	Total/NA	Solid	8082A	211551
180-66369-36	PS-FD-4	Total/NA	Solid	8082A	211551
180-66369-37	SSHS-B798-SUB-10-12	Total/NA	Solid	8082A	211551
180-66369-43	SSHS-B797-SUB-4-6	Total/NA	Solid	8082A	211551
180-66369-44	SSHS-B797-SUB-6-8	Total/NA	Solid	8082A	211551
180-66369-45	SSHS-B794-SUB-2-4	Total/NA	Solid	8082A	211551
180-66369-46	SSHS-B794-SUB-4-6	Total/NA	Solid	8082A	211551
180-66369-47	PS-FD-5	Total/NA	Solid	8082A	211551
180-66369-48	PS-FD-6	Total/NA	Solid	8082A	211551
180-66369-49	SSHS-B794-SUB-6-8	Total/NA	Solid	8082A	211551
180-66369-51	SSHS-B812-SUB-8-10	Total/NA	Solid	8082A	211551
MB 180-211516/1-A	Method Blank	Total/NA	Solid	8082A	211516
LCS 180-211516/2-A	Lab Control Sample	Total/NA	Solid	8082A	211516
180-66369-46 MS	SSHS-B794-SUB-4-6	Total/NA	Solid	8082A	211551
180-66369-46 MSD	SSHS-B794-SUB-4-6	Total/NA	Solid	8082A	211551

Analysis Batch: 211518

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-66369-53	SSHS-B812-SUB-12-14	Total/NA	Solid	8082A	211551
180-66369-57	SSHS-B807-SUB-8-10	Total/NA	Solid	8082A	211551
180-66369-61	SSHS-B787-SUB-8-10	Total/NA	Solid	8082A	211551
180-66369-62	PS-FD-1	Total/NA	Solid	8082A	211551
180-66369-63	SSHS-B793-SUB-4-6	Total/NA	Solid	8082A	211551

GC Semi VOA (Continued)

Analysis Batch: 211518 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-66369-64	SSHS-B793-SUB-6-8	Total/NA	Solid	8082A	211551
MB 180-211516/1-A	Method Blank	Total/NA	Solid	8082A	211516
180-66369-63 MS - DL	SSHS-B793-SUB-4-6	Total/NA	Solid	8082A	211551
180-66369-63 MSD - DL	SSHS-B793-SUB-4-6	Total/NA	Solid	8082A	211551

Cleanup Batch: 211550

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-66369-33	SSHS-B798-SUB-2-4	Total/NA	Solid	3665A	211516
180-66369-35	SSHS-B798-SUB-8-10	Total/NA	Solid	3665A	211516
180-66369-36	PS-FD-4	Total/NA	Solid	3665A	211516
180-66369-37	SSHS-B798-SUB-10-12	Total/NA	Solid	3665A	211516
180-66369-43	SSHS-B797-SUB-4-6	Total/NA	Solid	3665A	211516
180-66369-44	SSHS-B797-SUB-6-8	Total/NA	Solid	3665A	211516
180-66369-45	SSHS-B794-SUB-2-4	Total/NA	Solid	3665A	211516
180-66369-46	SSHS-B794-SUB-4-6	Total/NA	Solid	3665A	211516
180-66369-47	PS-FD-5	Total/NA	Solid	3665A	211516
180-66369-48	PS-FD-6	Total/NA	Solid	3665A	211516
180-66369-49	SSHS-B794-SUB-6-8	Total/NA	Solid	3665A	211516
180-66369-51	SSHS-B812-SUB-8-10	Total/NA	Solid	3665A	211516
180-66369-53	SSHS-B812-SUB-12-14	Total/NA	Solid	3665A	211516
180-66369-57	SSHS-B807-SUB-8-10	Total/NA	Solid	3665A	211516
180-66369-61	SSHS-B787-SUB-8-10	Total/NA	Solid	3665A	211516
180-66369-62	PS-FD-1	Total/NA	Solid	3665A	211516
180-66369-63	SSHS-B793-SUB-4-6	Total/NA	Solid	3665A	211516
180-66369-64	SSHS-B793-SUB-6-8	Total/NA	Solid	3665A	211516
180-66369-46 MS	SSHS-B794-SUB-4-6	Total/NA	Solid	3665A	211516
180-66369-46 MSD	SSHS-B794-SUB-4-6	Total/NA	Solid	3665A	211516
180-66369-63 MS - DL	SSHS-B793-SUB-4-6	Total/NA	Solid	3665A	211516
180-66369-63 MSD - DL	SSHS-B793-SUB-4-6	Total/NA	Solid	3665A	211516

Cleanup Batch: 211551

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-66369-33	SSHS-B798-SUB-2-4	Total/NA	Solid	3660B	211550
180-66369-35	SSHS-B798-SUB-8-10	Total/NA	Solid	3660B	211550
180-66369-36	PS-FD-4	Total/NA	Solid	3660B	211550
180-66369-37	SSHS-B798-SUB-10-12	Total/NA	Solid	3660B	211550
180-66369-43	SSHS-B797-SUB-4-6	Total/NA	Solid	3660B	211550
180-66369-44	SSHS-B797-SUB-6-8	Total/NA	Solid	3660B	211550
180-66369-45	SSHS-B794-SUB-2-4	Total/NA	Solid	3660B	211550
180-66369-46	SSHS-B794-SUB-4-6	Total/NA	Solid	3660B	211550
180-66369-47	PS-FD-5	Total/NA	Solid	3660B	211550
180-66369-48	PS-FD-6	Total/NA	Solid	3660B	211550
180-66369-49	SSHS-B794-SUB-6-8	Total/NA	Solid	3660B	211550
180-66369-51	SSHS-B812-SUB-8-10	Total/NA	Solid	3660B	211550
180-66369-53	SSHS-B812-SUB-12-14	Total/NA	Solid	3660B	211550
180-66369-57	SSHS-B807-SUB-8-10	Total/NA	Solid	3660B	211550
180-66369-61	SSHS-B787-SUB-8-10	Total/NA	Solid	3660B	211550
180-66369-62	PS-FD-1	Total/NA	Solid	3660B	211550
180-66369-63	SSHS-B793-SUB-4-6	Total/NA	Solid	3660B	211550
180-66369-64	SSHS-B793-SUB-6-8	Total/NA	Solid	3660B	211550
180-66369-46 MS	SSHS-B794-SUB-4-6	Total/NA	Solid	3660B	211550

GC Semi VOA (Continued)

Cleanup Batch: 211551 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-66369-46 MSD	SSHS-B794-SUB-4-6	Total/NA	Solid	3660B	211550
180-66369-63 MS - DL	SSHS-B793-SUB-4-6	Total/NA	Solid	3660B	211550
180-66369-63 MSD - DL	SSHS-B793-SUB-4-6	Total/NA	Solid	3660B	211550

General Chemistry

Analysis Batch: 211469

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-66369-1	SSHS-B792-SUB-8-10	Total/NA	Solid	2540G	
180-66369-2	SSHS-B792-SUB-10-12	Total/NA	Solid	2540G	
180-66369-3	SSHS-B792-SUB-12-14	Total/NA	Solid	2540G	
180-66369-5	SSHS-B791-SUB-2-4	Total/NA	Solid	2540G	
180-66369-7	SSHS-B796-SUB-4-6	Total/NA	Solid	2540G	
180-66369-8	SSHS-B796-SUB-6-8	Total/NA	Solid	2540G	
180-66369-9	SSHS-B795-SUB-2-4	Total/NA	Solid	2540G	
180-66369-10	SSHS-B795-SUB-4-6	Total/NA	Solid	2540G	
180-66369-11	SSHS-B795-SUB-6-8	Total/NA	Solid	2540G	
180-66369-12	PS-FD-2	Total/NA	Solid	2540G	
180-66369-13	SSHS-B795-SUB-8-10	Total/NA	Solid	2540G	
180-66369-16	SSHS-B782-SUB-2-4	Total/NA	Solid	2540G	
180-66369-18	SSHS-B803-SUB-4-6	Total/NA	Solid	2540G	
180-66369-19	SSHS-B803-SUB-6-8	Total/NA	Solid	2540G	
180-66369-24	PS-FD-3	Total/NA	Solid	2540G	
180-66369-25	SSHS-B804-SUB-4-6	Total/NA	Solid	2540G	
180-66369-27	SSHS-B804-SUB-8-10	Total/NA	Solid	2540G	
180-66369-28	SSHS-B804-SUB-10-12	Total/NA	Solid	2540G	
180-66369-29	SSHS-B804-SUB-12-14	Total/NA	Solid	2540G	
180-66369-32	SSHS-B811-SUB-12-14	Total/NA	Solid	2540G	
180-66369-1 DU	SSHS-B792-SUB-8-10	Total/NA	Solid	2540G	
180-66369-13 DU	SSHS-B795-SUB-8-10	Total/NA	Solid	2540G	

Analysis Batch: 211471

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-66369-33	SSHS-B798-SUB-2-4	Total/NA	Solid	2540G	
180-66369-35	SSHS-B798-SUB-8-10	Total/NA	Solid	2540G	
180-66369-36	PS-FD-4	Total/NA	Solid	2540G	
180-66369-37	SSHS-B798-SUB-10-12	Total/NA	Solid	2540G	
180-66369-43	SSHS-B797-SUB-4-6	Total/NA	Solid	2540G	
180-66369-44	SSHS-B797-SUB-6-8	Total/NA	Solid	2540G	
180-66369-45	SSHS-B794-SUB-2-4	Total/NA	Solid	2540G	
180-66369-46	SSHS-B794-SUB-4-6	Total/NA	Solid	2540G	
180-66369-47	PS-FD-5	Total/NA	Solid	2540G	
180-66369-48	PS-FD-6	Total/NA	Solid	2540G	
180-66369-49	SSHS-B794-SUB-6-8	Total/NA	Solid	2540G	
180-66369-51	SSHS-B812-SUB-8-10	Total/NA	Solid	2540G	
180-66369-53	SSHS-B812-SUB-12-14	Total/NA	Solid	2540G	
180-66369-57	SSHS-B807-SUB-8-10	Total/NA	Solid	2540G	
180-66369-61	SSHS-B787-SUB-8-10	Total/NA	Solid	2540G	
180-66369-62	PS-FD-1	Total/NA	Solid	2540G	
180-66369-63	SSHS-B793-SUB-4-6	Total/NA	Solid	2540G	

General Chemistry (Continued)

Analysis Batch: 211471 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-66369-64	SSHS-B793-SUB-6-8	Total/NA	Solid	2540G	
180-66369-33 DU	SSHS-B798-SUB-2-4	Total/NA	Solid	2540G	
180-66369-49 DU	SSHS-B794-SUB-6-8	Total/NA	Solid	2540G	

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Chain of Cus

180-66369 Chain of Custody

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐DW ☐NPDES ☐RCRA

Client Contact	Project Manager: Aron Krasnopoler	Site Contac	COC No:
Geosyntec Consultants	Tel/Fax: 401-381-4333	Lab Contact: Dave Dunlap	Carrier: FedEx	1 of 5 COCs
10211 Wincopin Circle, 4th Floor	Analysis Turnaround Time		Sampler: JT
Columbia, MD 21044	☐ CALENDAR DAYS ☑ WORKING DAYS		For Lab Use Only:
410-381-4333 Phone	TAT if different from Below _____		Walk-in Client:
410-381-4499 FAX	☐ 2 weeks		Lab Sampling:
Project Name: Former Sperry Remington Site - North	☐ 1 week		
Site: Elmira	☐ 2 days		Job / SDG No.:
P O # MN0832B	☑ 1 day		

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	PCBs - 8082A	Sample Specific Notes:
SSHS-B792-SUB-8-10	5/16/17	0745	C	S	2	N	N	X	
SSHS-B792-SUB-10-12		0745	C	S	2	N	N	X	
SSHS-B792-SUB-12-14		0750	C	S	2	N	N	X	
SSHS-B792-SUB-14-16		0750	C	S	2	N	N	X	(HOLD)
SSHS-B791-SUB-2-4		0810	C	S	2	N	N	X	
SSHS-B791-SUB-4-6		0815	C	S	2	N	N	X	HOLD
SSHS-B796-SUB-4-5		0850	C	S	2	N	N	X	
SSHS-B795-SUB-6-8		0850	C	S	2	N	N	X	
SSHS-B795-SUB-2-4		0915	C	S	2	N	N	X	
SSHS-B795-SUB-4-6		0920	C	S	2	N	N	X	
SSHS-B795-SUB-6-8		0920	C	S	2	N	N	X	
FB-01-2		X	C	S	2	N	N	X	

RUSH

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd:_____ Corr'd:_____ Therm ID No.:_____

	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by: Jay Thompson	Geosyntec	5/16/17 1830		TAP	5/17/17 905
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Form No. CA-C-WI-002, Rev. 4.3, dated 12/05/2013

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5/18/2017

TestAmerica Pittsburgh
301 Alpha Drive
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Pittsburgh, PA 15238
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Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☑Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Aron Krasnopoler	Site Contact: Jay Thompson	Date: 5/16/17	COC No:
Geosyntec Consultants	Tel/Fax: 401-381-4333	Lab Contact: Dave Dunlap	Carrier: FedEx	2 of 3 COCs
10211 Wincopin Circle, 4th Floor	Analysis Turnaround Time			Sampler: JT
Columbia, MD 21044	☐CALENDAR DAYS ☑WORKING DAYS			For Lab Use Only:
410-381-4333 Phone	TAT if different from Below _____			Walk-in Client:
410-381-4499 FAX	☐ 2 weeks			Lab Sampling:
Project Name: Former Sperry Remington Site - North	☐ 1 week			
Site: Elmira	☐ 2 days			Job / SDG No.:
P O # MN0832B	☑ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	PCBs - 8082A	Sample Specific Notes:
SSHS-B795-SUB-8-10	5/16/17	0925	C	S	2	N	N	X	
SSHS-B795-SUB-10-12 JT 5/16/17		0925	C	S	2	N	N	X	HOLD
SSHS-B795-SUB-14-16		0930	C	S	2	N	N	X	HOLD
SSHS-B782-SUB-2-4		0945	C	S	2	N	N	X	
SSHS-B782-SUB-4-6		0950	C	S	2	N	N	X	HOLD
SSHS-B803-SUB-4-6		1010	C	S	2	N	N	X	
SSHS-B803-SUB-6-8		1010	C	S	2	N	N	X	"PS-MS/MSD-2"
SSHS-B803-SUB-8-10		1015	C	S	2	N	N	X	HOLD
SSHS-B803-SUB-10-12		1015	C	S	2	N	N	X	HOLD
SSHS-B803-SUB-12-14		1020	C	S	2	N	N	X	HOLD
SSHS-B803-SUB-14-16		1020	C	S	2	N	N	X	HOLD
PS-FD-3		X	C	S	2	N	N	X	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑Non-Hazard ☐Flammable ☐Skin Irritant ☐Poison B ☐Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐Return to Client ☑Disposal by Lab ☐Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temp. (°C): Obs'd: _____ Corr'd: _____	Therm ID No.: _____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Jay Thompson	Geosyntec	5/16/17 1830		TAP	5/17/17 905
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

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Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☑Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Aron Krasnopoler	Site Contact: Jay Thompson	Date: 5/16/17	COC No:
Geosyntec Consultants	Tel/Fax: 401-381-4333	Lab Contact: Dave Dunlap	Carrier: FedEx	3 of 5 COCs
10211 Wincopin Circle, 4th Floor	Analysis Turnaround Time			Sampler: JT
Columbia, MD 21044	☐CALENDAR DAYS ☑WORKING DAYS			For Lab Use Only:
410-381-4333 Phone	TAT if different from Below _____			Walk-in Client:
410-381-4499 FAX	☐ 2 weeks			Lab Sampling:
Project Name: Former Sperry Remington Site - North	☐ 1 week			
Site: Elmira	☐ 2 days			Job / SDG No.:
P O # MN0832B	☑ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	PCBs -8082A	Sample Specific Notes:
SS HS-B804-SUB-4-6	5/16/17	1105	C	S	2	N	N	X	
SS HS-B804-SUB-6-8		1105	C	S	2	N	N	X	HOLD
SS HS-B804-SUB-8-10		1110	C	S	2	N	N	X	
SS HS-B804-SUB-10-12		1110	C	S	2	N	N	X	
SS HS-B804-SUB-12-14		1115	C	S	2	N	N	X	
SS HS-B804-SUB-14-16		1115	C	S	2	N	N	X	HOLD
SS HS-B811-SUB-C-8		1140	C	S	2	N	N	X	HOLD
SS HS-B811-SUB-12-14		1150	C	S	2	N	N	X	
SS HS-B798-SUB-2-4	5/16/17	1205	C	S	2	N	N	X	
SS HS-B798-SUB-4-6		1210	C	S	2	N	N	X	HOLD
SS HS-B798-SUB-8-10		1215	C	S	2	N	N	X	
PS-FD-4	↓	X	C	S	2	N	N	X	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____ (PCBs -8082A: 1)

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑Non-Hazard ☐Flammable ☐Skin Irritant ☐Poison B ☐Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐Return to Client ☑Disposal by Lab ☐Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd:_____ Corr'd:_____ | Therm ID No.:_____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Jay Thompson	Geosyntec	5/16/17 1830		TAP	5/17/17 905
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Form No. CA-C-WI-002, Rev. 4.3, dated 12/05/2013

5/18/2017

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Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☑Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Aron Krasnopoler	Site Contact: Jay Thompson	Date: 5/16/17	COC No:
Geosyntec Consultants	Tel/Fax: 401-381-4333	Lab Contact: Dave Dunlap	Carrier: FedEx	4 of 5 COCs
10211 Wincopin Circle, 4th Floor	Analysis Turnaround Time			Sampler: JT
Columbia, MD 21044	☐CALENDAR DAYS ☑WORKING DAYS			For Lab Use Only:
410-381-4333 Phone	TAT if different from Below _____			Walk-in Client:
410-381-4499 FAX	☐ 2 weeks			Lab Sampling:
Project Name: Former Sperry Remington Site - North	☐ 1 week			
Site: Elmira	☐ 2 days			Job / SDG No.:
P O # MN0832B	☑ 1 day			

RUSH

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	PCBs -8082A	Sample Specific Notes:
SS HS-B798-SUB-10-12	5/16/17	1215	C	S	2	N	N	X	
SS HS-B788-SUB-10-12		1305	C	S	2	N	N	X	HOLD
SS HS-B806-SUB-4-6		1429	C	S	2	N	N	X	HOLD
SS HS-B806-SUB-6-8		1425	C	S	2	N	N	X	HOLD
SS HS-B808-SUB-4-6		1445	C	S	2	N	N	X	HOLD
SS HS-B808-SUB-6-8		1445	C	S	2	N	N	X	HOLD
SS HS-B797-SUB-4-6		1505	C	S	2	N	N	X	
SS HS-B797-SUB-6-8		1505	C	S	2	N	N	X	
SS HS-B794-SUB-2-4		1520	C	S	2	N	N	X	
SS HS-B794-SUB-4-6		1525	C	S	4	N	N	X	MS/MSD-3
PS-FD-5		X	C	S	2	N	N	X	JT 5/16/17
PS-FD-6	↓	X	C	S	2	N	N	X	

Preservation Used: 1= Ice, 2= HCl; 3= H_2SO_4; 4=HNO_3; 5=NaOH; 6= Other _____

1

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑Non-Hazard ☐Flammable ☐Skin Irritant ☐Poison B ☐Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐Return to Client ☑Disposal by Lab ☐Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐Yes ☐No	Custody Seal No.:	Cooler Temp. (°C): Obs'd: _____ Corr'd: _____	Therm ID No.: _____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Jay Thompson	Geosyntec	5/16/17 1830		TAP	5/17/17 905
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Form No. CA-C-WI-002, Rev. 4.3, dated 12/05/2013

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Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☑Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Aron Krasnopoler	Site Contact: Jay Thompson	Date: 5/16/17	COC No:
Geosyntec Consultants	Tel/Fax: 401-381-4333	Lab Contact: Dave Dunlap	Carrier: FedEx	5 of 5 COCs
10211 Wincopin Circle, 4th Floor	Analysis Turnaround Time			Sampler: JT
Columbia, MD 21044	☐CALENDAR DAYS ☑WORKING DAYS			For Lab Use Only:
410-381-4333 Phone	TAT if different from Below _____			Walk-in Client:
410-381-4499 FAX	☐ 2 weeks			Lab Sampling:
Project Name: Former Sperry Remington Site - North	☐ 1 week			
Site: Elmira	☐ 2 days			Job / SDG No.:
P O # MN0832B	☑ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	PCBs -8082A	Sample Specific Notes:
SSHS-B794-SW3-6-8	5/16/17	1525	C	S	2	N	N	X	
SSHS-B794-SW3-8-10	5/16/17	1525	C	S	2	N	N	X	HOLD
								1	

JT 5/16/17

Preservation Used: 1= Ice, 2= HCl; 3= H_2SO_4; 4=HNO_3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑Non-Hazard ☐Flammable ☐Skin Irritant ☐Poison B ☐Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐Return to Client ☑Disposal by Lab ☐Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd:_____ Corr'd:_____ Therm ID No.:_____

	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by: Jay Thompson	Geosyntec	5/16/17 1930	Received by:	TAP	5/17/17 905
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Form No. CA-C-WI-002, Rev. 4.3, dated 12/05/2013

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Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☑Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Aron Krasnopoler	Site Contact: Jay Thompson	Date: 5/15/17	COC No:
Geosyntec Consultants	Tel/Fax: 401-381-4333	Lab Contact: Dave Dunlap	Carrier: FedEx	1 of 3 COCs
10211 Wincopin Circle, 4th Floor	Analysis Turnaround Time			Sampler: JT
Columbia, MD 21044	☐CALENDAR DAYS ☑WORKING DAYS			For Lab Use Only:
410-381-4333 Phone	TAT if different from Below _____			Walk-in Client:
410-381-4499 FAX	☐ 2 weeks			Lab Sampling:
Project Name: Former Sperry Remington Site - North	☐ 1 week			
Site: Elmira	☐ 2 days			Job / SDG No.:
P O # MN0832B	☑ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	PCBs -8082A	Sample Specific Notes:
SSHS-B812-SUB-8-10	5/15/17	1350	C	S	2	N	N	X	
SSHS-B812-SUB-10-12		1350	C	S	2	N	N	X	HOLD
SSHS-B812-SUB-12-14		1355	C	S	2	N	N	X	
SSHS-B812-SUB-14-16		1355	C	S	2	N	N	X	HOLD
SSHS-B807-SUB-4-6		1415	C	S	2	N	N	X	HOLD
SSHS-B807-SUB-6-8		1415	C	S	2	N	N	X	HOLD
SSHS-B807-SUB-8-10		1420	C	S	2	N	N	X	
SSHS-B807-SUB-10-12		1420	C	S	2	N	N	X	HOLD
SSHS-B809-SUB-2-4		1435	C	S	2	N	N	X	HOLD
SSHS-B809-SUB-4-6		1440	C	S	2	N	N	X	HOLD
SSHS-B707-SUB-8-10		1525	C	S	2	N	N	X	
BS-FD-1	↓	X	C	S	2	N	N	X	

RUSH

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑Non-Hazard ☐Flammable ☐Skin Irritant ☐Poison B ☐Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐Return to Client ☑Disposal by Lab ☐Archive for_____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd:_____ Corr'd:_____ Therm ID No.:_____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Jay Thompson	GEOSYNTEC	5/16/17 1830		TAP	5/17/17 905
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Form No. CA-C-WI-002, Rev. 4.3, dated 12/05/2013

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Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☑ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Aron Krasnopoler	Site Contact: Jay Thompson	Date: 5/15/17	COC No:
Geosyntec Consultants	Tel/Fax: 401-381-4333	Lab Contact: Dave Dunlap	Carrier: FedEx	2 of 2 COCs
10211 Wincopin Circle, 4th Floor	Analysis Turnaround Time			Sampler: JT
Columbia, MD 21044	☐ CALENDAR DAYS ☑ WORKING DAYS			For Lab Use Only:
410-381-4333 Phone	TAT if different from Below _____			Walk-in Client:
410-381-4499 FAX	☐ 2 weeks			Lab Sampling:
Project Name: Former Sperry Remington Site - North	☐ 1 week			
Site: Elmira	☐ 2 days			Job / SDG No.:
P O # MN0832B	☑ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	PCBs -8082A	Sample Specific Notes:
SS HS-B793-SUB-4-6	5/15/17	1550	C	S	4	N	Y	X	"PS-MS/MSD-1"
SS HS-B793-SUB-6-8	5/15/17	1550	C	S	2	N	N	X	

JT 5/15/17

Preservation Used: 1= Ice, 2= HCl; 3= H_2SO_4; 4=HNO_3; 5=NaOH; 6= Other _____ 1

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd:_____ Corr'd:_____ Therm ID No.:_____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Jay Thompson	Geosyntec	5/16/17 1830		TAP	5/17/17 905
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Form No. CA-C-WI-002, Rev. 4.3, dated 12/05/2013

5/18/2017

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 180-66369-1

Login Number: 66369
List Number: 1
Creator: Say, Thomas C

List Source: TestAmerica Pittsburgh

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

TestAmerica Job ID: 180-66432-1
Client Project/Site: Former Sperry Remington Site - North

For:
Geosyntec Consultants, Inc.
10211 Wincopin Circle
4'th Floor
Columbia, Maryland 21044

Attn: Mr. Aron Krasnopoler

Authorized for release by:
5/19/2017 2:47:15 PM

David Dunlap, Senior Project Manager
(412)963-2432
david.dunlap@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Job ID: 180-66432-1

Laboratory: TestAmerica Pittsburgh

Narrative

Job Narrative
180-66432-1

Receipt
The samples were received on 5/18/2017 8:45 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 5.0º C and 5.8º C.

GC Semi VOA
Method(s) 8082A: The following samples were diluted to bring the concentration of target analytes within the calibration range: SSHS-B800-SUB-2-4 (180-66432-3), SSHS-B800-SUB-4-6 (180-66432-4), SSHS-B800-SUB-6-8 (180-66432-5), SSHS-B800-SUB-8-10 (180-66432-6) and its matrix spikes, SSHS-B800-SUB-12-14 (180-66432-8), SSHS-B790-SUB-2-4 (180-66432-10), SSHS-B805-SUB-10-12 (180-66432-25), SSHS-B802-SUB-8-10 (180-66432-26) and its matrix spikes, SSHS-B802-SUB-12-14 (180-66432-27), and SSHS-B801-SUB-4-6 (180-66432-29). Several samples had the surrogates diluted out. The matrix spikes of sample SSHS-B800-SUB-8-10 (180-66432-6) should be considered diluted out. Elevated reporting limits (RLs) are provided.

Method 8082A: The following sample had the recovery of surrogate decachlorobiphenyl above the control limits on one column: SSHS-B800-SUB-2-4 (180-66432-3). The recovery was within the control limits on the other column.

Method 8082A: The matrix spike and matrix spike duplicate of sample SSHS-B802-SUB-8-10 (180-66432-26) had the recoveries and RPD between the spikes above the control limits for aroclor 1016 and the matrix spike duplicate recovery was above the control limits for aroclor 1260. The recoveries of the laboratory control sample were within the control limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Definitions/Glossary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North

TestAmerica Job ID: 180-66432-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
X	Surrogate is outside control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc. TestAmerica Job ID: 180-66432-1
Project/Site: Former Sperry Remington Site - North

Laboratory: TestAmerica Pittsburgh

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	11182	03-31-18

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
2540G		Solid	Percent Moisture
2540G		Solid	Percent Solids

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North

TestAmerica Job ID: 180-66432-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-66432-1	SSHS-B786-SUB-6-8	Solid	05/17/17 07:35	05/18/17 08:45
180-66432-2	SSHS-B785-SUB-6-8	Solid	05/17/17 07:50	05/18/17 08:45
180-66432-3	SSHS-B800-SUB-2-4	Solid	05/17/17 08:00	05/18/17 08:45
180-66432-4	SSHS-B800-SUB-4-6	Solid	05/17/17 08:05	05/18/17 08:45
180-66432-5	SSHS-B800-SUB-6-8	Solid	05/17/17 08:05	05/18/17 08:45
180-66432-6	SSHS-B800-SUB-8-10	Solid	05/17/17 08:10	05/18/17 08:45
180-66432-8	SSHS-B800-SUB-12-14	Solid	05/17/17 08:20	05/18/17 08:45
180-66432-10	SSHS-B790-SUB-2-4	Solid	05/17/17 08:40	05/18/17 08:45
180-66432-11	SSHS-B783-SUB-2-4	Solid	05/17/17 09:25	05/18/17 08:45
180-66432-12	PS-FD-7	Solid	05/17/17 00:00	05/18/17 08:45
180-66432-14	SSHS-B799-SUB-2-4	Solid	05/17/17 09:45	05/18/17 08:45
180-66432-16	SSHS-B799-SUB-10-12	Solid	05/17/17 09:55	05/18/17 08:45
180-66432-17	SSHS-B799-SUB-12-14	Solid	05/17/17 10:00	05/18/17 08:45
180-66432-20	SSHS-B784-SUB-2-4	Solid	05/17/17 10:35	05/18/17 08:45
180-66432-23	SSHS-B805-SUB-4-6	Solid	05/17/17 13:05	05/18/17 08:45
180-66432-24	PS-FD-8	Solid	05/17/17 00:00	05/18/17 08:45
180-66432-25	SSHS-B805-SUB-10-12	Solid	05/17/17 13:10	05/18/17 08:45
180-66432-26	SSHS-B802-SUB-8-10	Solid	05/17/17 13:35	05/18/17 08:45
180-66432-27	SSHS-B802-SUB-12-14	Solid	05/17/17 13:40	05/18/17 08:45
180-66432-29	SSHS-B801-SUB-4-6	Solid	05/17/17 14:00	05/18/17 08:45
180-66432-30	SSHS-B801-SUB-8-10	Solid	05/17/17 14:05	05/18/17 08:45
180-66432-31	SSHS-B801-SUB-10-12	Solid	05/17/17 14:05	05/18/17 08:45
180-66432-32	SSHS-B801-SUB-12-14	Solid	05/17/17 14:10	05/18/17 08:45
180-66432-35	PS-FD-9	Solid	05/17/17 00:00	05/18/17 08:45

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North

TestAmerica Job ID: 180-66432-1

Method	Method Description	Protocol	Laboratory
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL PIT
2540G	SM 2540G	SM22	TAL PIT

Protocol References:

SM22 = SM22

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North

TestAmerica Job ID: 180-66432-1

Client Sample ID: SSHS-B786-SUB-6-8
Date Collected: 05/17/17 07:35
Date Received: 05/18/17 08:45

Lab Sample ID: 180-66432-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			211638	05/18/17 17:56	JJZ	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B786-SUB-6-8
Date Collected: 05/17/17 07:35
Date Received: 05/18/17 08:45

Lab Sample ID: 180-66432-1
Matrix: Solid
Percent Solids: 86.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	211563	05/18/17 10:42	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	211608	05/18/17 15:01	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	211611	05/18/17 15:02	JMO	TAL PIT
Total/NA	Analysis	8082A		1			211615	05/18/17 17:41	JMO	TAL PIT
	Instrument ID: CHGC16									

Client Sample ID: SSHS-B785-SUB-6-8
Date Collected: 05/17/17 07:50
Date Received: 05/18/17 08:45

Lab Sample ID: 180-66432-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			211638	05/18/17 17:56	JJZ	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B785-SUB-6-8
Date Collected: 05/17/17 07:50
Date Received: 05/18/17 08:45

Lab Sample ID: 180-66432-2
Matrix: Solid
Percent Solids: 88.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	211563	05/18/17 10:42	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	211608	05/18/17 15:01	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	211611	05/18/17 15:02	JMO	TAL PIT
Total/NA	Analysis	8082A		1			211615	05/18/17 18:02	JMO	TAL PIT
	Instrument ID: CHGC16									

Client Sample ID: SSHS-B800-SUB-2-4
Date Collected: 05/17/17 08:00
Date Received: 05/18/17 08:45

Lab Sample ID: 180-66432-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			211638	05/18/17 17:56	JJZ	TAL PIT
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North

TestAmerica Job ID: 180-66432-1

Client Sample ID: SSHS-B800-SUB-2-4
Date Collected: 05/17/17 08:00
Date Received: 05/18/17 08:45

Lab Sample ID: 180-66432-3
Matrix: Solid
Percent Solids: 93.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	211563	05/18/17 10:42	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	211608	05/18/17 15:01	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	211611	05/18/17 15:02	JMO	TAL PIT
Total/NA	Analysis	8082A		20			211615	05/19/17 05:33	JMO	TAL PIT
	Instrument ID: CHGC16									

Client Sample ID: SSHS-B800-SUB-4-6
Date Collected: 05/17/17 08:05
Date Received: 05/18/17 08:45

Lab Sample ID: 180-66432-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			211638	05/18/17 17:56	JJZ	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B800-SUB-4-6
Date Collected: 05/17/17 08:05
Date Received: 05/18/17 08:45

Lab Sample ID: 180-66432-4
Matrix: Solid
Percent Solids: 90.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	211563	05/18/17 10:42	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	211608	05/18/17 15:01	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	211611	05/18/17 15:02	JMO	TAL PIT
Total/NA	Analysis	8082A		500			211615	05/19/17 05:54	JMO	TAL PIT
	Instrument ID: CHGC16									

Client Sample ID: SSHS-B800-SUB-6-8
Date Collected: 05/17/17 08:05
Date Received: 05/18/17 08:45

Lab Sample ID: 180-66432-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			211638	05/18/17 17:56	JJZ	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B800-SUB-6-8
Date Collected: 05/17/17 08:05
Date Received: 05/18/17 08:45

Lab Sample ID: 180-66432-5
Matrix: Solid
Percent Solids: 86.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	211563	05/18/17 10:42	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	211608	05/18/17 15:01	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	211611	05/18/17 15:02	JMO	TAL PIT
Total/NA	Analysis	8082A		1000			211615	05/19/17 06:14	JMO	TAL PIT
	Instrument ID: CHGC16									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North

TestAmerica Job ID: 180-66432-1

Client Sample ID: SSHS-B800-SUB-8-10
Lab Sample ID: 180-66432-6
Date Collected: 05/17/17 08:10
Matrix: Solid
Date Received: 05/18/17 08:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			211638	05/18/17 17:56	JJZ	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B800-SUB-8-10
Lab Sample ID: 180-66432-6
Date Collected: 05/17/17 08:10
Matrix: Solid
Date Received: 05/18/17 08:45
Percent Solids: 85.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	211563	05/18/17 10:42	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	211608	05/18/17 15:01	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	211611	05/18/17 15:02	JMO	TAL PIT
Total/NA	Analysis	8082A		1000			211615	05/19/17 06:35	JMO	TAL PIT
	Instrument ID: CHGC16									

Client Sample ID: SSHS-B800-SUB-12-14
Lab Sample ID: 180-66432-8
Date Collected: 05/17/17 08:20
Matrix: Solid
Date Received: 05/18/17 08:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			211638	05/18/17 17:56	JJZ	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B800-SUB-12-14
Lab Sample ID: 180-66432-8
Date Collected: 05/17/17 08:20
Matrix: Solid
Date Received: 05/18/17 08:45
Percent Solids: 91.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	211563	05/18/17 10:42	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	211608	05/18/17 15:01	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	211611	05/18/17 15:02	JMO	TAL PIT
Total/NA	Analysis	8082A		100			211615	05/19/17 07:40	JMO	TAL PIT
	Instrument ID: CHGC16									

Client Sample ID: SSHS-B790-SUB-2-4
Lab Sample ID: 180-66432-10
Date Collected: 05/17/17 08:40
Matrix: Solid
Date Received: 05/18/17 08:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			211638	05/18/17 17:56	JJZ	TAL PIT
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North

TestAmerica Job ID: 180-66432-1

Client Sample ID: SSHS-B790-SUB-2-4
Date Collected: 05/17/17 08:40
Date Received: 05/18/17 08:45

Lab Sample ID: 180-66432-10
Matrix: Solid
Percent Solids: 87.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	211563	05/18/17 10:42	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	211608	05/18/17 15:01	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	211611	05/18/17 15:02	JMO	TAL PIT
Total/NA	Analysis	8082A		1000			211615	05/19/17 08:02	JMO	TAL PIT
	Instrument ID: CHGC16									

Client Sample ID: SSHS-B783-SUB-2-4
Date Collected: 05/17/17 09:25
Date Received: 05/18/17 08:45

Lab Sample ID: 180-66432-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			211638	05/18/17 17:56	JJZ	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B783-SUB-2-4
Date Collected: 05/17/17 09:25
Date Received: 05/18/17 08:45

Lab Sample ID: 180-66432-11
Matrix: Solid
Percent Solids: 90.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	211563	05/18/17 10:42	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	211608	05/18/17 15:01	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	211611	05/18/17 15:02	JMO	TAL PIT
Total/NA	Analysis	8082A		1			211615	05/18/17 21:13	JMO	TAL PIT
	Instrument ID: CHGC16									

Client Sample ID: PS-FD-7
Date Collected: 05/17/17 00:00
Date Received: 05/18/17 08:45

Lab Sample ID: 180-66432-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			211638	05/18/17 17:56	JJZ	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: PS-FD-7
Date Collected: 05/17/17 00:00
Date Received: 05/18/17 08:45

Lab Sample ID: 180-66432-12
Matrix: Solid
Percent Solids: 90.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	211563	05/18/17 10:42	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	211608	05/18/17 15:01	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	211611	05/18/17 15:02	JMO	TAL PIT
Total/NA	Analysis	8082A		1			211615	05/18/17 21:34	JMO	TAL PIT
	Instrument ID: CHGC16									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North

TestAmerica Job ID: 180-66432-1

Client Sample ID: SSHS-B799-SUB-2-4
Lab Sample ID: 180-66432-14
Date Collected: 05/17/17 09:45
Matrix: Solid
Date Received: 05/18/17 08:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			211638	05/18/17 17:56	JJZ	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B799-SUB-2-4
Lab Sample ID: 180-66432-14
Date Collected: 05/17/17 09:45
Matrix: Solid
Date Received: 05/18/17 08:45
Percent Solids: 89.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	211563	05/18/17 10:42	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	211608	05/18/17 15:01	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	211611	05/18/17 15:02	JMO	TAL PIT
Total/NA	Analysis	8082A		1			211615	05/18/17 21:56	JMO	TAL PIT
	Instrument ID: CHGC16									

Client Sample ID: SSHS-B799-SUB-10-12
Lab Sample ID: 180-66432-16
Date Collected: 05/17/17 09:55
Matrix: Solid
Date Received: 05/18/17 08:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			211638	05/18/17 17:56	JJZ	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B799-SUB-10-12
Lab Sample ID: 180-66432-16
Date Collected: 05/17/17 09:55
Matrix: Solid
Date Received: 05/18/17 08:45
Percent Solids: 92.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	211563	05/18/17 10:42	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	211608	05/18/17 15:01	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	211611	05/18/17 15:02	JMO	TAL PIT
Total/NA	Analysis	8082A		1			211615	05/18/17 22:17	JMO	TAL PIT
	Instrument ID: CHGC16									

Client Sample ID: SSHS-B799-SUB-12-14
Lab Sample ID: 180-66432-17
Date Collected: 05/17/17 10:00
Matrix: Solid
Date Received: 05/18/17 08:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			211638	05/18/17 17:56	JJZ	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B799-SUB-12-14

Lab Sample ID: 180-66432-17
Date Collected: 05/17/17 10:00
Matrix: Solid
Date Received: 05/18/17 08:45
Percent Solids: 83.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	211563	05/18/17 10:42	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	211608	05/18/17 15:01	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	211611	05/18/17 15:02	JMO	TAL PIT
Total/NA	Analysis	8082A		1			211615	05/18/17 22:38	JMO	TAL PIT
	Instrument ID: CHGC16									

Client Sample ID: SSHS-B784-SUB-2-4

Lab Sample ID: 180-66432-20
Date Collected: 05/17/17 10:35
Matrix: Solid
Date Received: 05/18/17 08:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			211638	05/18/17 17:56	JJZ	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B784-SUB-2-4

Lab Sample ID: 180-66432-20
Date Collected: 05/17/17 10:35
Matrix: Solid
Date Received: 05/18/17 08:45
Percent Solids: 89.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	211563	05/18/17 10:42	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	211608	05/18/17 15:01	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	211611	05/18/17 15:02	JMO	TAL PIT
Total/NA	Analysis	8082A		1			211615	05/18/17 23:00	JMO	TAL PIT
	Instrument ID: CHGC16									

Client Sample ID: SSHS-B805-SUB-4-6

Lab Sample ID: 180-66432-23
Date Collected: 05/17/17 13:05
Matrix: Solid
Date Received: 05/18/17 08:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			211638	05/18/17 17:56	JJZ	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B805-SUB-4-6

Lab Sample ID: 180-66432-23
Date Collected: 05/17/17 13:05
Matrix: Solid
Date Received: 05/18/17 08:45
Percent Solids: 84.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	211563	05/18/17 10:42	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	211608	05/18/17 15:01	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	211611	05/18/17 15:02	JMO	TAL PIT
Total/NA	Analysis	8082A		1			211615	05/18/17 23:21	JMO	TAL PIT
	Instrument ID: CHGC16									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North

TestAmerica Job ID: 180-66432-1

Client Sample ID: PS-FD-8
Date Collected: 05/17/17 00:00
Date Received: 05/18/17 08:45

Lab Sample ID: 180-66432-24
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			211638	05/18/17 17:56	JJZ	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: PS-FD-8
Date Collected: 05/17/17 00:00
Date Received: 05/18/17 08:45

Lab Sample ID: 180-66432-24
Matrix: Solid
Percent Solids: 86.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	211563	05/18/17 10:42	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	211608	05/18/17 15:01	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	211611	05/18/17 15:02	JMO	TAL PIT
Total/NA	Analysis	8082A		1			211615	05/18/17 23:43	JMO	TAL PIT
	Instrument ID: CHGC16									

Client Sample ID: SSHS-B805-SUB-10-12
Date Collected: 05/17/17 13:10
Date Received: 05/18/17 08:45

Lab Sample ID: 180-66432-25
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			211638	05/18/17 17:56	JJZ	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B805-SUB-10-12
Date Collected: 05/17/17 13:10
Date Received: 05/18/17 08:45

Lab Sample ID: 180-66432-25
Matrix: Solid
Percent Solids: 92.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	211563	05/18/17 10:42	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	211608	05/18/17 15:01	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	211611	05/18/17 15:02	JMO	TAL PIT
Total/NA	Analysis	8082A		10			211615	05/19/17 08:43	JMO	TAL PIT
	Instrument ID: CHGC16									

Client Sample ID: SSHS-B802-SUB-8-10
Date Collected: 05/17/17 13:35
Date Received: 05/18/17 08:45

Lab Sample ID: 180-66432-26
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			211638	05/18/17 17:56	JJZ	TAL PIT
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North

TestAmerica Job ID: 180-66432-1

Client Sample ID: SSHS-B802-SUB-8-10
Lab Sample ID: 180-66432-26
Date Collected: 05/17/17 13:35
Matrix: Solid
Date Received: 05/18/17 08:45
Percent Solids: 88.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	211564	05/18/17 10:44	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	211609	05/18/17 15:01	DFE	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	211612	05/18/17 15:02	DFE	TAL PIT
Total/NA	Analysis	8082A		10			211615	05/19/17 09:04	JMO	TAL PIT
	Instrument ID: CHGC16									

Client Sample ID: SSHS-B802-SUB-12-14
Lab Sample ID: 180-66432-27
Date Collected: 05/17/17 13:40
Matrix: Solid
Date Received: 05/18/17 08:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			211638	05/18/17 17:56	JJZ	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B802-SUB-12-14
Lab Sample ID: 180-66432-27
Date Collected: 05/17/17 13:40
Matrix: Solid
Date Received: 05/18/17 08:45
Percent Solids: 94.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	211564	05/18/17 10:44	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	211609	05/18/17 15:01	DFE	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	211612	05/18/17 15:02	DFE	TAL PIT
Total/NA	Analysis	8082A		10			211615	05/19/17 10:07	JMO	TAL PIT
	Instrument ID: CHGC16									

Client Sample ID: SSHS-B801-SUB-4-6
Lab Sample ID: 180-66432-29
Date Collected: 05/17/17 14:00
Matrix: Solid
Date Received: 05/18/17 08:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			211638	05/18/17 17:56	JJZ	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B801-SUB-4-6
Lab Sample ID: 180-66432-29
Date Collected: 05/17/17 14:00
Matrix: Solid
Date Received: 05/18/17 08:45
Percent Solids: 87.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	211564	05/18/17 10:44	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	211609	05/18/17 15:01	DFE	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	211612	05/18/17 15:02	DFE	TAL PIT
Total/NA	Analysis	8082A		10			211615	05/19/17 10:28	JMO	TAL PIT
	Instrument ID: CHGC16									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North

TestAmerica Job ID: 180-66432-1

Client Sample ID: SSHS-B801-SUB-8-10
Date Collected: 05/17/17 14:05
Date Received: 05/18/17 08:45

Lab Sample ID: 180-66432-30
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			211637	05/18/17 17:39	JJZ	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B801-SUB-8-10
Date Collected: 05/17/17 14:05
Date Received: 05/18/17 08:45

Lab Sample ID: 180-66432-30
Matrix: Solid
Percent Solids: 93.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	211564	05/18/17 10:44	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	211609	05/18/17 15:01	DFE	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	211612	05/18/17 15:02	DFE	TAL PIT
Total/NA	Analysis	8082A		1			211615	05/19/17 03:14	JMO	TAL PIT
	Instrument ID: CHGC16									

Client Sample ID: SSHS-B801-SUB-10-12
Date Collected: 05/17/17 14:05
Date Received: 05/18/17 08:45

Lab Sample ID: 180-66432-31
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			211637	05/18/17 17:39	JJZ	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B801-SUB-10-12
Date Collected: 05/17/17 14:05
Date Received: 05/18/17 08:45

Lab Sample ID: 180-66432-31
Matrix: Solid
Percent Solids: 94.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	211564	05/18/17 10:44	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	211609	05/18/17 15:01	DFE	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	211612	05/18/17 15:02	DFE	TAL PIT
Total/NA	Analysis	8082A		1			211615	05/19/17 03:35	JMO	TAL PIT
	Instrument ID: CHGC16									

Client Sample ID: SSHS-B801-SUB-12-14
Date Collected: 05/17/17 14:10
Date Received: 05/18/17 08:45

Lab Sample ID: 180-66432-32
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			211637	05/18/17 17:39	JJZ	TAL PIT
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North

TestAmerica Job ID: 180-66432-1

Client Sample ID: SSHS-B801-SUB-12-14

Lab Sample ID: 180-66432-32
Date Collected: 05/17/17 14:10
Matrix: Solid
Date Received: 05/18/17 08:45
Percent Solids: 94.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	211564	05/18/17 10:44	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	211609	05/18/17 15:01	DFE	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	211612	05/18/17 15:02	DFE	TAL PIT
Total/NA	Analysis	8082A		1			211615	05/19/17 03:56	JMO	TAL PIT
	Instrument ID: CHGC16									

Client Sample ID: PS-FD-9

Lab Sample ID: 180-66432-35
Date Collected: 05/17/17 00:00
Matrix: Solid
Date Received: 05/18/17 08:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			211637	05/18/17 17:39	JJZ	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: PS-FD-9

Lab Sample ID: 180-66432-35
Date Collected: 05/17/17 00:00
Matrix: Solid
Date Received: 05/18/17 08:45
Percent Solids: 90.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	211564	05/18/17 10:44	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	211609	05/18/17 15:01	DFE	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	211612	05/18/17 15:02	DFE	TAL PIT
Total/NA	Analysis	8082A		1			211615	05/19/17 04:17	JMO	TAL PIT
	Instrument ID: CHGC16									

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Analyst References:

Lab: TAL PIT

Batch Type: Cleanup

DFE = David Eppinger

JMO = John Oravec

Batch Type: Prep

BAP = Brian Pino

Batch Type: Analysis

JJZ = Joseph Zubrow

JMO = John Oravec

Client Sample ID: SSHS-B786-SUB-6-8

Lab Sample ID: 180-66432-1
Date Collected: 05/17/17 07:35
Matrix: Solid
Date Received: 05/18/17 08:45
Percent Solids: 86.7

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		19	10	ug/Kg	☼	05/18/17 10:42	05/18/17 17:41	1
PCB-1221	ND		19	10	ug/Kg	☼	05/18/17 10:42	05/18/17 17:41	1
PCB-1232	ND		19	7.6	ug/Kg	☼	05/18/17 10:42	05/18/17 17:41	1
PCB-1242	ND		19	15	ug/Kg	☼	05/18/17 10:42	05/18/17 17:41	1
PCB-1248	**340**		19	9.2	ug/Kg	☼	05/18/17 10:42	05/18/17 17:41	1
PCB-1254	**98**		19	8.4	ug/Kg	☼	05/18/17 10:42	05/18/17 17:41	1
PCB-1260	ND		19	13	ug/Kg	☼	05/18/17 10:42	05/18/17 17:41	1
PCB-1262	ND		19	14	ug/Kg	☼	05/18/17 10:42	05/18/17 17:41	1
PCB-1268	ND		19	5.9	ug/Kg	☼	05/18/17 10:42	05/18/17 17:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*86*		*23 - 150*	*05/18/17 10:42*	*05/18/17 17:41*	*1*
DCB Decachlorobiphenyl (Surr)	*89*		*23 - 150*	*05/18/17 10:42*	*05/18/17 17:41*	*1*
Tetrachloro-m-xylene (Surr)	*80*		*27 - 138*	*05/18/17 10:42*	*05/18/17 17:41*	*1*
Tetrachloro-m-xylene (Surr)	*81*		*27 - 138*	*05/18/17 10:42*	*05/18/17 17:41*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**13.3**		0.1	0.1	%			05/18/17 17:56	1
Percent Solids	**86.7**		0.1	0.1	%			05/18/17 17:56	1

Client Sample ID: SSHS-B785-SUB-6-8

Lab Sample ID: 180-66432-2
Date Collected: 05/17/17 07:50
Matrix: Solid
Date Received: 05/18/17 08:45
Percent Solids: 88.1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		19	10	ug/Kg	☼	05/18/17 10:42	05/18/17 18:02	1
PCB-1221	ND		19	9.8	ug/Kg	☼	05/18/17 10:42	05/18/17 18:02	1
PCB-1232	ND		19	7.5	ug/Kg	☼	05/18/17 10:42	05/18/17 18:02	1
PCB-1242	ND		19	15	ug/Kg	☼	05/18/17 10:42	05/18/17 18:02	1
PCB-1248	**35**		19	9.0	ug/Kg	☼	05/18/17 10:42	05/18/17 18:02	1
PCB-1254	**9.3**	**J**	19	8.3	ug/Kg	☼	05/18/17 10:42	05/18/17 18:02	1
PCB-1260	ND		19	13	ug/Kg	☼	05/18/17 10:42	05/18/17 18:02	1
PCB-1262	ND		19	14	ug/Kg	☼	05/18/17 10:42	05/18/17 18:02	1
PCB-1268	ND		19	5.8	ug/Kg	☼	05/18/17 10:42	05/18/17 18:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*83*		*23 - 150*	*05/18/17 10:42*	*05/18/17 18:02*	*1*
DCB Decachlorobiphenyl (Surr)	*85*		*23 - 150*	*05/18/17 10:42*	*05/18/17 18:02*	*1*
Tetrachloro-m-xylene (Surr)	*86*		*27 - 138*	*05/18/17 10:42*	*05/18/17 18:02*	*1*
Tetrachloro-m-xylene (Surr)	*89*		*27 - 138*	*05/18/17 10:42*	*05/18/17 18:02*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**11.9**		0.1	0.1	%			05/18/17 17:56	1
Percent Solids	**88.1**		0.1	0.1	%			05/18/17 17:56	1

Client Sample ID: SSHS-B800-SUB-2-4

Lab Sample ID: 180-66432-3
Date Collected: 05/17/17 08:00
Matrix: Solid
Date Received: 05/18/17 08:45
Percent Solids: 93.2

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		360	190	ug/Kg	☼	05/18/17 10:42	05/19/17 05:33	20
PCB-1221	ND		360	190	ug/Kg	☼	05/18/17 10:42	05/19/17 05:33	20
PCB-1232	ND		360	140	ug/Kg	☼	05/18/17 10:42	05/19/17 05:33	20
PCB-1242	ND		360	280	ug/Kg	☼	05/18/17 10:42	05/19/17 05:33	20
PCB-1248	**34000**		360	170	ug/Kg	☼	05/18/17 10:42	05/19/17 05:33	20
PCB-1254	**10000**		360	160	ug/Kg	☼	05/18/17 10:42	05/19/17 05:33	20
PCB-1260	**1200**		360	240	ug/Kg	☼	05/18/17 10:42	05/19/17 05:33	20
PCB-1262	ND		360	260	ug/Kg	☼	05/18/17 10:42	05/19/17 05:33	20
PCB-1268	ND		360	110	ug/Kg	☼	05/18/17 10:42	05/19/17 05:33	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*127*		*23 - 150*	*05/18/17 10:42*	*05/19/17 05:33*	*20*
DCB Decachlorobiphenyl (Surr)	*158*	*X*	*23 - 150*	*05/18/17 10:42*	*05/19/17 05:33*	*20*
Tetrachloro-m-xylene (Surr)	*94*		*27 - 138*	*05/18/17 10:42*	*05/19/17 05:33*	*20*
Tetrachloro-m-xylene (Surr)	*87*		*27 - 138*	*05/18/17 10:42*	*05/19/17 05:33*	*20*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**6.8**		0.1	0.1	%			05/18/17 17:56	1
Percent Solids	**93.2**		0.1	0.1	%			05/18/17 17:56	1

Client Sample ID: SSHS-B800-SUB-4-6

Lab Sample ID: 180-66432-4
Date Collected: 05/17/17 08:05
Matrix: Solid
Date Received: 05/18/17 08:45
Percent Solids: 90.5

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		9200	4900	ug/Kg	☼	05/18/17 10:42	05/19/17 05:54	500
PCB-1221	ND		9200	4800	ug/Kg	☼	05/18/17 10:42	05/19/17 05:54	500
PCB-1232	ND		9200	3600	ug/Kg	☼	05/18/17 10:42	05/19/17 05:54	500
PCB-1242	ND		9200	7300	ug/Kg	☼	05/18/17 10:42	05/19/17 05:54	500
PCB-1248	**540000**		9200	4400	ug/Kg	☼	05/18/17 10:42	05/19/17 05:54	500
PCB-1254	**140000**		9200	4000	ug/Kg	☼	05/18/17 10:42	05/19/17 05:54	500
PCB-1260	**15000**		9200	6100	ug/Kg	☼	05/18/17 10:42	05/19/17 05:54	500
PCB-1262	ND		9200	6600	ug/Kg	☼	05/18/17 10:42	05/19/17 05:54	500
PCB-1268	ND		9200	2800	ug/Kg	☼	05/18/17 10:42	05/19/17 05:54	500

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*0*	*X D*	*23 - 150*	*05/18/17 10:42*	*05/19/17 05:54*	*500*
DCB Decachlorobiphenyl (Surr)	*0*	*X D*	*23 - 150*	*05/18/17 10:42*	*05/19/17 05:54*	*500*
Tetrachloro-m-xylene (Surr)	*0*	*X D*	*27 - 138*	*05/18/17 10:42*	*05/19/17 05:54*	*500*
Tetrachloro-m-xylene (Surr)	*0*	*X D*	*27 - 138*	*05/18/17 10:42*	*05/19/17 05:54*	*500*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.5**		0.1	0.1	%			05/18/17 17:56	1
Percent Solids	**90.5**		0.1	0.1	%			05/18/17 17:56	1

Client Sample ID: SSHS-B800-SUB-6-8

Lab Sample ID: 180-66432-5
Date Collected: 05/17/17 08:05
Matrix: Solid
Date Received: 05/18/17 08:45
Percent Solids: 86.0

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		19000	10000	ug/Kg	☼	05/18/17 10:42	05/19/17 06:14	1000
PCB-1221	ND		19000	10000	ug/Kg	☼	05/18/17 10:42	05/19/17 06:14	1000
PCB-1232	ND		19000	7700	ug/Kg	☼	05/18/17 10:42	05/19/17 06:14	1000
PCB-1242	ND		19000	15000	ug/Kg	☼	05/18/17 10:42	05/19/17 06:14	1000
PCB-1248	**2700000**		19000	9300	ug/Kg	☼	05/18/17 10:42	05/19/17 06:14	1000
PCB-1254	**630000**		19000	8500	ug/Kg	☼	05/18/17 10:42	05/19/17 06:14	1000
PCB-1260	**79000**		19000	13000	ug/Kg	☼	05/18/17 10:42	05/19/17 06:14	1000
PCB-1262	ND		19000	14000	ug/Kg	☼	05/18/17 10:42	05/19/17 06:14	1000
PCB-1268	ND		19000	5900	ug/Kg	☼	05/18/17 10:42	05/19/17 06:14	1000

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*0*	*X D*	*23 - 150*	*05/18/17 10:42*	*05/19/17 06:14*	*1000*
DCB Decachlorobiphenyl (Surr)	*0*	*X D*	*23 - 150*	*05/18/17 10:42*	*05/19/17 06:14*	*1000*
Tetrachloro-m-xylene (Surr)	*0*	*X D*	*27 - 138*	*05/18/17 10:42*	*05/19/17 06:14*	*1000*
Tetrachloro-m-xylene (Surr)	*0*	*X D*	*27 - 138*	*05/18/17 10:42*	*05/19/17 06:14*	*1000*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**14.0**		0.1	0.1	%			05/18/17 17:56	1
Percent Solids	**86.0**		0.1	0.1	%			05/18/17 17:56	1

Client Sample ID: SSHS-B800-SUB-8-10

Lab Sample ID: 180-66432-6
Date Collected: 05/17/17 08:10
Matrix: Solid
Date Received: 05/18/17 08:45
Percent Solids: 85.7

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		19000	10000	ug/Kg	☼	05/18/17 10:42	05/19/17 06:35	1000
PCB-1221	ND		19000	10000	ug/Kg	☼	05/18/17 10:42	05/19/17 06:35	1000
PCB-1232	ND		19000	7700	ug/Kg	☼	05/18/17 10:42	05/19/17 06:35	1000
PCB-1242	ND		19000	15000	ug/Kg	☼	05/18/17 10:42	05/19/17 06:35	1000
PCB-1248	**850000**		19000	9300	ug/Kg	☼	05/18/17 10:42	05/19/17 06:35	1000
PCB-1254	**200000**		19000	8500	ug/Kg	☼	05/18/17 10:42	05/19/17 06:35	1000
PCB-1260	**25000**		19000	13000	ug/Kg	☼	05/18/17 10:42	05/19/17 06:35	1000
PCB-1262	ND		19000	14000	ug/Kg	☼	05/18/17 10:42	05/19/17 06:35	1000
PCB-1268	ND		19000	5900	ug/Kg	☼	05/18/17 10:42	05/19/17 06:35	1000

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*0*	*X D*	*23 - 150*	*05/18/17 10:42*	*05/19/17 06:35*	*1000*
DCB Decachlorobiphenyl (Surr)	*0*	*X D*	*23 - 150*	*05/18/17 10:42*	*05/19/17 06:35*	*1000*
Tetrachloro-m-xylene (Surr)	*0*	*X D*	*27 - 138*	*05/18/17 10:42*	*05/19/17 06:35*	*1000*
Tetrachloro-m-xylene (Surr)	*0*	*X D*	*27 - 138*	*05/18/17 10:42*	*05/19/17 06:35*	*1000*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**14.3**		0.1	0.1	%			05/18/17 17:56	1
Percent Solids	**85.7**		0.1	0.1	%			05/18/17 17:56	1

Client Sample ID: SSHS-B800-SUB-12-14

Lab Sample ID: 180-66432-8
Date Collected: 05/17/17 08:20
Matrix: Solid
Date Received: 05/18/17 08:45
Percent Solids: 91.7

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		1800	960	ug/Kg	☼	05/18/17 10:42	05/19/17 07:40	100
PCB-1221	ND		1800	940	ug/Kg	☼	05/18/17 10:42	05/19/17 07:40	100
PCB-1232	ND		1800	720	ug/Kg	☼	05/18/17 10:42	05/19/17 07:40	100
PCB-1242	ND		1800	1400	ug/Kg	☼	05/18/17 10:42	05/19/17 07:40	100
PCB-1248	**170000**		1800	870	ug/Kg	☼	05/18/17 10:42	05/19/17 07:40	100
PCB-1254	**41000**		1800	800	ug/Kg	☼	05/18/17 10:42	05/19/17 07:40	100
PCB-1260	**5100**		1800	1200	ug/Kg	☼	05/18/17 10:42	05/19/17 07:40	100
PCB-1262	ND		1800	1300	ug/Kg	☼	05/18/17 10:42	05/19/17 07:40	100
PCB-1268	ND		1800	550	ug/Kg	☼	05/18/17 10:42	05/19/17 07:40	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*0*	*X D*	*23 - 150*	*05/18/17 10:42*	*05/19/17 07:40*	*100*
DCB Decachlorobiphenyl (Surr)	*0*	*X D*	*23 - 150*	*05/18/17 10:42*	*05/19/17 07:40*	*100*
Tetrachloro-m-xylene (Surr)	*0*	*X D*	*27 - 138*	*05/18/17 10:42*	*05/19/17 07:40*	*100*
Tetrachloro-m-xylene (Surr)	*0*	*X D*	*27 - 138*	*05/18/17 10:42*	*05/19/17 07:40*	*100*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**8.3**		0.1	0.1	%			05/18/17 17:56	1
Percent Solids	**91.7**		0.1	0.1	%			05/18/17 17:56	1

Client Sample ID: SSHS-B790-SUB-2-4

Lab Sample ID: 180-66432-10
Date Collected: 05/17/17 08:40
Matrix: Solid
Date Received: 05/18/17 08:45
Percent Solids: 87.1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		19000	10000	ug/Kg	☼	05/18/17 10:42	05/19/17 08:02	1000
PCB-1221	ND		19000	9900	ug/Kg	☼	05/18/17 10:42	05/19/17 08:02	1000
PCB-1232	ND		19000	7600	ug/Kg	☼	05/18/17 10:42	05/19/17 08:02	1000
PCB-1242	ND		19000	15000	ug/Kg	☼	05/18/17 10:42	05/19/17 08:02	1000
PCB-1248	**730000**		19000	9100	ug/Kg	☼	05/18/17 10:42	05/19/17 08:02	1000
PCB-1254	**240000**		19000	8400	ug/Kg	☼	05/18/17 10:42	05/19/17 08:02	1000
PCB-1260	**19000**		19000	13000	ug/Kg	☼	05/18/17 10:42	05/19/17 08:02	1000
PCB-1262	ND		19000	14000	ug/Kg	☼	05/18/17 10:42	05/19/17 08:02	1000
PCB-1268	ND		19000	5800	ug/Kg	☼	05/18/17 10:42	05/19/17 08:02	1000

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*0*	*X D*	*23 - 150*	*05/18/17 10:42*	*05/19/17 08:02*	*1000*
DCB Decachlorobiphenyl (Surr)	*0*	*X D*	*23 - 150*	*05/18/17 10:42*	*05/19/17 08:02*	*1000*
Tetrachloro-m-xylene (Surr)	*0*	*X D*	*27 - 138*	*05/18/17 10:42*	*05/19/17 08:02*	*1000*
Tetrachloro-m-xylene (Surr)	*0*	*X D*	*27 - 138*	*05/18/17 10:42*	*05/19/17 08:02*	*1000*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**12.9**		0.1	0.1	%			05/18/17 17:56	1
Percent Solids	**87.1**		0.1	0.1	%			05/18/17 17:56	1

Client Sample ID: SSHS-B783-SUB-2-4

Lab Sample ID: 180-66432-11

Date Collected: 05/17/17 09:25
Matrix: Solid
Date Received: 05/18/17 08:45
Percent Solids: 90.3

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		18	9.8	ug/Kg	☼	05/18/17 10:42	05/18/17 21:13	1
PCB-1221	ND		18	9.6	ug/Kg	☼	05/18/17 10:42	05/18/17 21:13	1
PCB-1232	ND		18	7.3	ug/Kg	☼	05/18/17 10:42	05/18/17 21:13	1
PCB-1242	ND		18	15	ug/Kg	☼	05/18/17 10:42	05/18/17 21:13	1
PCB-1248	**200**		18	8.8	ug/Kg	☼	05/18/17 10:42	05/18/17 21:13	1
PCB-1254	**78**		18	8.1	ug/Kg	☼	05/18/17 10:42	05/18/17 21:13	1
PCB-1260	**14**	**J**	18	12	ug/Kg	☼	05/18/17 10:42	05/18/17 21:13	1
PCB-1262	ND		18	13	ug/Kg	☼	05/18/17 10:42	05/18/17 21:13	1
PCB-1268	ND		18	5.6	ug/Kg	☼	05/18/17 10:42	05/18/17 21:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*77*		*23 - 150*	*05/18/17 10:42*	*05/18/17 21:13*	*1*
DCB Decachlorobiphenyl (Surr)	*87*		*23 - 150*	*05/18/17 10:42*	*05/18/17 21:13*	*1*
Tetrachloro-m-xylene (Surr)	*71*		*27 - 138*	*05/18/17 10:42*	*05/18/17 21:13*	*1*
Tetrachloro-m-xylene (Surr)	*72*		*27 - 138*	*05/18/17 10:42*	*05/18/17 21:13*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.7**		0.1	0.1	%			05/18/17 17:56	1
Percent Solids	**90.3**		0.1	0.1	%			05/18/17 17:56	1

Client Sample ID: PS-FD-7

Lab Sample ID: 180-66432-12

Date Collected: 05/17/17 00:00
Matrix: Solid
Date Received: 05/18/17 08:45
Percent Solids: 90.7

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		18	9.7	ug/Kg	☼	05/18/17 10:42	05/18/17 21:34	1
PCB-1221	ND		18	9.5	ug/Kg	☼	05/18/17 10:42	05/18/17 21:34	1
PCB-1232	ND		18	7.3	ug/Kg	☼	05/18/17 10:42	05/18/17 21:34	1
PCB-1242	ND		18	15	ug/Kg	☼	05/18/17 10:42	05/18/17 21:34	1
PCB-1248	**180**		18	8.8	ug/Kg	☼	05/18/17 10:42	05/18/17 21:34	1
PCB-1254	**46**		18	8.1	ug/Kg	☼	05/18/17 10:42	05/18/17 21:34	1
PCB-1260	ND		18	12	ug/Kg	☼	05/18/17 10:42	05/18/17 21:34	1
PCB-1262	ND		18	13	ug/Kg	☼	05/18/17 10:42	05/18/17 21:34	1
PCB-1268	ND		18	5.6	ug/Kg	☼	05/18/17 10:42	05/18/17 21:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*74*		*23 - 150*	*05/18/17 10:42*	*05/18/17 21:34*	*1*
DCB Decachlorobiphenyl (Surr)	*82*		*23 - 150*	*05/18/17 10:42*	*05/18/17 21:34*	*1*
Tetrachloro-m-xylene (Surr)	*79*		*27 - 138*	*05/18/17 10:42*	*05/18/17 21:34*	*1*
Tetrachloro-m-xylene (Surr)	*82*		*27 - 138*	*05/18/17 10:42*	*05/18/17 21:34*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.3**		0.1	0.1	%			05/18/17 17:56	1
Percent Solids	**90.7**		0.1	0.1	%			05/18/17 17:56	1

Client Sample ID: SSHS-B799-SUB-2-4

Lab Sample ID: 180-66432-14
Date Collected: 05/17/17 09:45
Matrix: Solid
Date Received: 05/18/17 08:45
Percent Solids: 89.7

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		19	9.9	ug/Kg	☼	05/18/17 10:42	05/18/17 21:56	1
PCB-1221	ND		19	9.6	ug/Kg	☼	05/18/17 10:42	05/18/17 21:56	1
PCB-1232	ND		19	7.4	ug/Kg	☼	05/18/17 10:42	05/18/17 21:56	1
PCB-1242	ND		19	15	ug/Kg	☼	05/18/17 10:42	05/18/17 21:56	1
PCB-1248	**79**		19	8.9	ug/Kg	☼	05/18/17 10:42	05/18/17 21:56	1
PCB-1254	**33**		19	8.1	ug/Kg	☼	05/18/17 10:42	05/18/17 21:56	1
PCB-1260	ND		19	12	ug/Kg	☼	05/18/17 10:42	05/18/17 21:56	1
PCB-1262	ND		19	13	ug/Kg	☼	05/18/17 10:42	05/18/17 21:56	1
PCB-1268	ND		19	5.7	ug/Kg	☼	05/18/17 10:42	05/18/17 21:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*74*		*23 - 150*	*05/18/17 10:42*	*05/18/17 21:56*	*1*
DCB Decachlorobiphenyl (Surr)	*87*		*23 - 150*	*05/18/17 10:42*	*05/18/17 21:56*	*1*
Tetrachloro-m-xylene (Surr)	*74*		*27 - 138*	*05/18/17 10:42*	*05/18/17 21:56*	*1*
Tetrachloro-m-xylene (Surr)	*75*		*27 - 138*	*05/18/17 10:42*	*05/18/17 21:56*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**10.3**		0.1	0.1	%			05/18/17 17:56	1
Percent Solids	**89.7**		0.1	0.1	%			05/18/17 17:56	1

Client Sample ID: SSHS-B799-SUB-10-12

Lab Sample ID: 180-66432-16
Date Collected: 05/17/17 09:55
Matrix: Solid
Date Received: 05/18/17 08:45
Percent Solids: 92.4

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		18	9.6	ug/Kg	☼	05/18/17 10:42	05/18/17 22:17	1
PCB-1221	ND		18	9.3	ug/Kg	☼	05/18/17 10:42	05/18/17 22:17	1
PCB-1232	ND		18	7.1	ug/Kg	☼	05/18/17 10:42	05/18/17 22:17	1
PCB-1242	ND		18	14	ug/Kg	☼	05/18/17 10:42	05/18/17 22:17	1
PCB-1248	**1700**		18	8.6	ug/Kg	☼	05/18/17 10:42	05/18/17 22:17	1
PCB-1254	**570**		18	7.9	ug/Kg	☼	05/18/17 10:42	05/18/17 22:17	1
PCB-1260	**71**		18	12	ug/Kg	☼	05/18/17 10:42	05/18/17 22:17	1
PCB-1262	ND		18	13	ug/Kg	☼	05/18/17 10:42	05/18/17 22:17	1
PCB-1268	ND		18	5.5	ug/Kg	☼	05/18/17 10:42	05/18/17 22:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*77*		*23 - 150*	*05/18/17 10:42*	*05/18/17 22:17*	*1*
DCB Decachlorobiphenyl (Surr)	*105*		*23 - 150*	*05/18/17 10:42*	*05/18/17 22:17*	*1*
Tetrachloro-m-xylene (Surr)	*82*		*27 - 138*	*05/18/17 10:42*	*05/18/17 22:17*	*1*
Tetrachloro-m-xylene (Surr)	*105*		*27 - 138*	*05/18/17 10:42*	*05/18/17 22:17*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**7.6**		0.1	0.1	%			05/18/17 17:56	1
Percent Solids	**92.4**		0.1	0.1	%			05/18/17 17:56	1

Client Sample ID: SSHS-B799-SUB-12-14

Lab Sample ID: 180-66432-17

Date Collected: 05/17/17 10:00
Matrix: Solid
Date Received: 05/18/17 08:45
Percent Solids: 83.3

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		20	11	ug/Kg	☼	05/18/17 10:42	05/18/17 22:38	1
PCB-1221	ND		20	10	ug/Kg	☼	05/18/17 10:42	05/18/17 22:38	1
PCB-1232	ND		20	7.9	ug/Kg	☼	05/18/17 10:42	05/18/17 22:38	1
PCB-1242	ND		20	16	ug/Kg	☼	05/18/17 10:42	05/18/17 22:38	1
PCB-1248	**130**		20	9.5	ug/Kg	☼	05/18/17 10:42	05/18/17 22:38	1
PCB-1254	**66**		20	8.8	ug/Kg	☼	05/18/17 10:42	05/18/17 22:38	1
PCB-1260	ND		20	13	ug/Kg	☼	05/18/17 10:42	05/18/17 22:38	1
PCB-1262	ND		20	14	ug/Kg	☼	05/18/17 10:42	05/18/17 22:38	1
PCB-1268	ND		20	6.1	ug/Kg	☼	05/18/17 10:42	05/18/17 22:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*71*		*23 - 150*	*05/18/17 10:42*	*05/18/17 22:38*	*1*
DCB Decachlorobiphenyl (Surr)	*90*		*23 - 150*	*05/18/17 10:42*	*05/18/17 22:38*	*1*
Tetrachloro-m-xylene (Surr)	*70*		*27 - 138*	*05/18/17 10:42*	*05/18/17 22:38*	*1*
Tetrachloro-m-xylene (Surr)	*84*		*27 - 138*	*05/18/17 10:42*	*05/18/17 22:38*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**16.7**		0.1	0.1	%			05/18/17 17:56	1
Percent Solids	**83.3**		0.1	0.1	%			05/18/17 17:56	1

Client Sample ID: SSHS-B784-SUB-2-4

Lab Sample ID: 180-66432-20

Date Collected: 05/17/17 10:35
Matrix: Solid
Date Received: 05/18/17 08:45
Percent Solids: 89.2

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		19	9.9	ug/Kg	☼	05/18/17 10:42	05/18/17 23:00	1
PCB-1221	ND		19	9.7	ug/Kg	☼	05/18/17 10:42	05/18/17 23:00	1
PCB-1232	ND		19	7.4	ug/Kg	☼	05/18/17 10:42	05/18/17 23:00	1
PCB-1242	ND		19	15	ug/Kg	☼	05/18/17 10:42	05/18/17 23:00	1
PCB-1248	**61**		19	8.9	ug/Kg	☼	05/18/17 10:42	05/18/17 23:00	1
PCB-1254	**45**		19	8.2	ug/Kg	☼	05/18/17 10:42	05/18/17 23:00	1
PCB-1260	ND		19	12	ug/Kg	☼	05/18/17 10:42	05/18/17 23:00	1
PCB-1262	ND		19	13	ug/Kg	☼	05/18/17 10:42	05/18/17 23:00	1
PCB-1268	ND		19	5.7	ug/Kg	☼	05/18/17 10:42	05/18/17 23:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*69*		*23 - 150*	*05/18/17 10:42*	*05/18/17 23:00*	*1*
DCB Decachlorobiphenyl (Surr)	*77*		*23 - 150*	*05/18/17 10:42*	*05/18/17 23:00*	*1*
Tetrachloro-m-xylene (Surr)	*61*		*27 - 138*	*05/18/17 10:42*	*05/18/17 23:00*	*1*
Tetrachloro-m-xylene (Surr)	*62*		*27 - 138*	*05/18/17 10:42*	*05/18/17 23:00*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**10.8**		0.1	0.1	%			05/18/17 17:56	1
Percent Solids	**89.2**		0.1	0.1	%			05/18/17 17:56	1

Client Sample ID: SSHS-B805-SUB-4-6

Lab Sample ID: 180-66432-23

Date Collected: 05/17/17 13:05
Matrix: Solid
Date Received: 05/18/17 08:45
Percent Solids: 84.4

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		20	10	ug/Kg	☼	05/18/17 10:42	05/18/17 23:21	1
PCB-1221	ND		20	10	ug/Kg	☼	05/18/17 10:42	05/18/17 23:21	1
PCB-1232	ND		20	7.8	ug/Kg	☼	05/18/17 10:42	05/18/17 23:21	1
PCB-1242	ND		20	16	ug/Kg	☼	05/18/17 10:42	05/18/17 23:21	1
PCB-1248	**720**		20	9.4	ug/Kg	☼	05/18/17 10:42	05/18/17 23:21	1
PCB-1254	**240**		20	8.7	ug/Kg	☼	05/18/17 10:42	05/18/17 23:21	1
PCB-1260	**23**		20	13	ug/Kg	☼	05/18/17 10:42	05/18/17 23:21	1
PCB-1262	ND		20	14	ug/Kg	☼	05/18/17 10:42	05/18/17 23:21	1
PCB-1268	ND		20	6.0	ug/Kg	☼	05/18/17 10:42	05/18/17 23:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*81*		*23 - 150*	*05/18/17 10:42*	*05/18/17 23:21*	*1*
DCB Decachlorobiphenyl (Surr)	*97*		*23 - 150*	*05/18/17 10:42*	*05/18/17 23:21*	*1*
Tetrachloro-m-xylene (Surr)	*77*		*27 - 138*	*05/18/17 10:42*	*05/18/17 23:21*	*1*
Tetrachloro-m-xylene (Surr)	*77*		*27 - 138*	*05/18/17 10:42*	*05/18/17 23:21*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**15.6**		0.1	0.1	%			05/18/17 17:56	1
Percent Solids	**84.4**		0.1	0.1	%			05/18/17 17:56	1

Client Sample ID: PS-FD-8

Lab Sample ID: 180-66432-24

Date Collected: 05/17/17 00:00
Matrix: Solid
Date Received: 05/18/17 08:45
Percent Solids: 86.0

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		19	10	ug/Kg	☼	05/18/17 10:42	05/18/17 23:43	1
PCB-1221	ND		19	10	ug/Kg	☼	05/18/17 10:42	05/18/17 23:43	1
PCB-1232	ND		19	7.7	ug/Kg	☼	05/18/17 10:42	05/18/17 23:43	1
PCB-1242	ND		19	15	ug/Kg	☼	05/18/17 10:42	05/18/17 23:43	1
PCB-1248	**1200**		19	9.3	ug/Kg	☼	05/18/17 10:42	05/18/17 23:43	1
PCB-1254	**420**		19	8.5	ug/Kg	☼	05/18/17 10:42	05/18/17 23:43	1
PCB-1260	**59**		19	13	ug/Kg	☼	05/18/17 10:42	05/18/17 23:43	1
PCB-1262	ND		19	14	ug/Kg	☼	05/18/17 10:42	05/18/17 23:43	1
PCB-1268	ND		19	5.9	ug/Kg	☼	05/18/17 10:42	05/18/17 23:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*83*		*23 - 150*	*05/18/17 10:42*	*05/18/17 23:43*	*1*
DCB Decachlorobiphenyl (Surr)	*102*		*23 - 150*	*05/18/17 10:42*	*05/18/17 23:43*	*1*
Tetrachloro-m-xylene (Surr)	*78*		*27 - 138*	*05/18/17 10:42*	*05/18/17 23:43*	*1*
Tetrachloro-m-xylene (Surr)	*99*		*27 - 138*	*05/18/17 10:42*	*05/18/17 23:43*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**14.0**		0.1	0.1	%			05/18/17 17:56	1
Percent Solids	**86.0**		0.1	0.1	%			05/18/17 17:56	1

Client Sample ID: SSHS-B805-SUB-10-12

Lab Sample ID: 180-66432-25

Date Collected: 05/17/17 13:10
Matrix: Solid
Date Received: 05/18/17 08:45
Percent Solids: 92.1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		180	96	ug/Kg	☼	05/18/17 10:42	05/19/17 08:43	10
PCB-1221	ND		180	94	ug/Kg	☼	05/18/17 10:42	05/19/17 08:43	10
PCB-1232	ND		180	72	ug/Kg	☼	05/18/17 10:42	05/19/17 08:43	10
PCB-1242	ND		180	140	ug/Kg	☼	05/18/17 10:42	05/19/17 08:43	10
PCB-1248	**20000**		180	86	ug/Kg	☼	05/18/17 10:42	05/19/17 08:43	10
PCB-1254	**6400**		180	79	ug/Kg	☼	05/18/17 10:42	05/19/17 08:43	10
PCB-1260	**860**		180	120	ug/Kg	☼	05/18/17 10:42	05/19/17 08:43	10
PCB-1262	ND		180	130	ug/Kg	☼	05/18/17 10:42	05/19/17 08:43	10
PCB-1268	ND		180	55	ug/Kg	☼	05/18/17 10:42	05/19/17 08:43	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*94*		*23 - 150*	*05/18/17 10:42*	*05/19/17 08:43*	*10*
DCB Decachlorobiphenyl (Surr)	*108*		*23 - 150*	*05/18/17 10:42*	*05/19/17 08:43*	*10*
Tetrachloro-m-xylene (Surr)	*75*		*27 - 138*	*05/18/17 10:42*	*05/19/17 08:43*	*10*
Tetrachloro-m-xylene (Surr)	*72*		*27 - 138*	*05/18/17 10:42*	*05/19/17 08:43*	*10*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**7.9**		0.1	0.1	%			05/18/17 17:56	1
Percent Solids	**92.1**		0.1	0.1	%			05/18/17 17:56	1

Client Sample ID: SSHS-B802-SUB-8-10

Lab Sample ID: 180-66432-26

Date Collected: 05/17/17 13:35
Matrix: Solid
Date Received: 05/18/17 08:45
Percent Solids: 88.3

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND	F1 F2	190	100	ug/Kg	☼	05/18/17 10:44	05/19/17 09:04	10
PCB-1221	ND		190	98	ug/Kg	☼	05/18/17 10:44	05/19/17 09:04	10
PCB-1232	ND		190	75	ug/Kg	☼	05/18/17 10:44	05/19/17 09:04	10
PCB-1242	ND		190	150	ug/Kg	☼	05/18/17 10:44	05/19/17 09:04	10
PCB-1248	**16000**		190	90	ug/Kg	☼	05/18/17 10:44	05/19/17 09:04	10
PCB-1254	**4500**		190	83	ug/Kg	☼	05/18/17 10:44	05/19/17 09:04	10
PCB-1260	**580**	**F1**	190	130	ug/Kg	☼	05/18/17 10:44	05/19/17 09:04	10
PCB-1262	ND		190	140	ug/Kg	☼	05/18/17 10:44	05/19/17 09:04	10
PCB-1268	ND		190	57	ug/Kg	☼	05/18/17 10:44	05/19/17 09:04	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*103*		*23 - 150*	*05/18/17 10:44*	*05/19/17 09:04*	*10*
DCB Decachlorobiphenyl (Surr)	*94*		*23 - 150*	*05/18/17 10:44*	*05/19/17 09:04*	*10*
Tetrachloro-m-xylene (Surr)	*95*		*27 - 138*	*05/18/17 10:44*	*05/19/17 09:04*	*10*
Tetrachloro-m-xylene (Surr)	*90*		*27 - 138*	*05/18/17 10:44*	*05/19/17 09:04*	*10*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**11.7**		0.1	0.1	%			05/18/17 17:56	1
Percent Solids	**88.3**		0.1	0.1	%			05/18/17 17:56	1

Client Sample ID: SSHS-B802-SUB-12-14

Lab Sample ID: 180-66432-27
Date Collected: 05/17/17 13:40
Matrix: Solid
Date Received: 05/18/17 08:45
Percent Solids: 94.6

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		180	93	ug/Kg	☼	05/18/17 10:44	05/19/17 10:07	10
PCB-1221	ND		180	91	ug/Kg	☼	05/18/17 10:44	05/19/17 10:07	10
PCB-1232	ND		180	70	ug/Kg	☼	05/18/17 10:44	05/19/17 10:07	10
PCB-1242	ND		180	140	ug/Kg	☼	05/18/17 10:44	05/19/17 10:07	10
PCB-1248	**13000**		180	84	ug/Kg	☼	05/18/17 10:44	05/19/17 10:07	10
PCB-1254	**3600**		180	77	ug/Kg	☼	05/18/17 10:44	05/19/17 10:07	10
PCB-1260	**460**		180	120	ug/Kg	☼	05/18/17 10:44	05/19/17 10:07	10
PCB-1262	ND		180	130	ug/Kg	☼	05/18/17 10:44	05/19/17 10:07	10
PCB-1268	ND		180	54	ug/Kg	☼	05/18/17 10:44	05/19/17 10:07	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*93*		*23 - 150*	*05/18/17 10:44*	*05/19/17 10:07*	*10*
DCB Decachlorobiphenyl (Surr)	*103*		*23 - 150*	*05/18/17 10:44*	*05/19/17 10:07*	*10*
Tetrachloro-m-xylene (Surr)	*86*		*27 - 138*	*05/18/17 10:44*	*05/19/17 10:07*	*10*
Tetrachloro-m-xylene (Surr)	*84*		*27 - 138*	*05/18/17 10:44*	*05/19/17 10:07*	*10*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**5.4**		0.1	0.1	%			05/18/17 17:56	1
Percent Solids	**94.6**		0.1	0.1	%			05/18/17 17:56	1

Client Sample ID: SSHS-B801-SUB-4-6

Lab Sample ID: 180-66432-29
Date Collected: 05/17/17 14:00
Matrix: Solid
Date Received: 05/18/17 08:45
Percent Solids: 87.3

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		190	100	ug/Kg	☼	05/18/17 10:44	05/19/17 10:28	10
PCB-1221	ND		190	99	ug/Kg	☼	05/18/17 10:44	05/19/17 10:28	10
PCB-1232	ND		190	76	ug/Kg	☼	05/18/17 10:44	05/19/17 10:28	10
PCB-1242	ND		190	150	ug/Kg	☼	05/18/17 10:44	05/19/17 10:28	10
PCB-1248	**43000**		190	91	ug/Kg	☼	05/18/17 10:44	05/19/17 10:28	10
PCB-1254	**19000**		190	84	ug/Kg	☼	05/18/17 10:44	05/19/17 10:28	10
PCB-1260	**2400**		190	130	ug/Kg	☼	05/18/17 10:44	05/19/17 10:28	10
PCB-1262	ND		190	140	ug/Kg	☼	05/18/17 10:44	05/19/17 10:28	10
PCB-1268	ND		190	58	ug/Kg	☼	05/18/17 10:44	05/19/17 10:28	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*90*		*23 - 150*	*05/18/17 10:44*	*05/19/17 10:28*	*10*
DCB Decachlorobiphenyl (Surr)	*97*		*23 - 150*	*05/18/17 10:44*	*05/19/17 10:28*	*10*
Tetrachloro-m-xylene (Surr)	*84*		*27 - 138*	*05/18/17 10:44*	*05/19/17 10:28*	*10*
Tetrachloro-m-xylene (Surr)	*78*		*27 - 138*	*05/18/17 10:44*	*05/19/17 10:28*	*10*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**12.7**		0.1	0.1	%			05/18/17 17:56	1
Percent Solids	**87.3**		0.1	0.1	%			05/18/17 17:56	1

Client Sample ID: SSHS-B801-SUB-8-10 — Lab Sample ID: 180-66432-30

Date Collected: 05/17/17 14:05 — **Matrix: Solid**
Date Received: 05/18/17 08:45 — **Percent Solids: 93.5**

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		18	9.5	ug/Kg	☼	05/18/17 10:44	05/19/17 03:14	1
PCB-1221	ND		18	9.2	ug/Kg	☼	05/18/17 10:44	05/19/17 03:14	1
PCB-1232	ND		18	7.1	ug/Kg	☼	05/18/17 10:44	05/19/17 03:14	1
PCB-1242	ND		18	14	ug/Kg	☼	05/18/17 10:44	05/19/17 03:14	1
PCB-1248	**530**		18	8.5	ug/Kg	☼	05/18/17 10:44	05/19/17 03:14	1
PCB-1254	**210**		18	7.8	ug/Kg	☼	05/18/17 10:44	05/19/17 03:14	1
PCB-1260	**30**		18	12	ug/Kg	☼	05/18/17 10:44	05/19/17 03:14	1
PCB-1262	ND		18	13	ug/Kg	☼	05/18/17 10:44	05/19/17 03:14	1
PCB-1268	ND		18	5.4	ug/Kg	☼	05/18/17 10:44	05/19/17 03:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*77*		*23 - 150*	*05/18/17 10:44*	*05/19/17 03:14*	*1*
DCB Decachlorobiphenyl (Surr)	*83*		*23 - 150*	*05/18/17 10:44*	*05/19/17 03:14*	*1*
Tetrachloro-m-xylene (Surr)	*81*		*27 - 138*	*05/18/17 10:44*	*05/19/17 03:14*	*1*
Tetrachloro-m-xylene (Surr)	*81*		*27 - 138*	*05/18/17 10:44*	*05/19/17 03:14*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**6.5**		0.1	0.1	%			05/18/17 17:39	1
Percent Solids	**93.5**		0.1	0.1	%			05/18/17 17:39	1

Client Sample ID: SSHS-B801-SUB-10-12 — Lab Sample ID: 180-66432-31

Date Collected: 05/17/17 14:05 — **Matrix: Solid**
Date Received: 05/18/17 08:45 — **Percent Solids: 94.3**

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		18	9.4	ug/Kg	☼	05/18/17 10:44	05/19/17 03:35	1
PCB-1221	ND		18	9.2	ug/Kg	☼	05/18/17 10:44	05/19/17 03:35	1
PCB-1232	ND		18	7.0	ug/Kg	☼	05/18/17 10:44	05/19/17 03:35	1
PCB-1242	ND		18	14	ug/Kg	☼	05/18/17 10:44	05/19/17 03:35	1
PCB-1248	**79**		18	8.4	ug/Kg	☼	05/18/17 10:44	05/19/17 03:35	1
PCB-1254	**16**	**J**	18	7.8	ug/Kg	☼	05/18/17 10:44	05/19/17 03:35	1
PCB-1260	ND		18	12	ug/Kg	☼	05/18/17 10:44	05/19/17 03:35	1
PCB-1262	ND		18	13	ug/Kg	☼	05/18/17 10:44	05/19/17 03:35	1
PCB-1268	ND		18	5.4	ug/Kg	☼	05/18/17 10:44	05/19/17 03:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*76*		*23 - 150*	*05/18/17 10:44*	*05/19/17 03:35*	*1*
DCB Decachlorobiphenyl (Surr)	*82*		*23 - 150*	*05/18/17 10:44*	*05/19/17 03:35*	*1*
Tetrachloro-m-xylene (Surr)	*75*		*27 - 138*	*05/18/17 10:44*	*05/19/17 03:35*	*1*
Tetrachloro-m-xylene (Surr)	*81*		*27 - 138*	*05/18/17 10:44*	*05/19/17 03:35*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**5.7**		0.1	0.1	%			05/18/17 17:39	1
Percent Solids	**94.3**		0.1	0.1	%			05/18/17 17:39	1

Client Sample ID: SSHS-B801-SUB-12-14

Lab Sample ID: 180-66432-32
Date Collected: 05/17/17 14:10
Matrix: Solid
Date Received: 05/18/17 08:45
Percent Solids: 94.2

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		18	9.4	ug/Kg	☼	05/18/17 10:44	05/19/17 03:56	1
PCB-1221	ND		18	9.2	ug/Kg	☼	05/18/17 10:44	05/19/17 03:56	1
PCB-1232	ND		18	7.0	ug/Kg	☼	05/18/17 10:44	05/19/17 03:56	1
PCB-1242	ND		18	14	ug/Kg	☼	05/18/17 10:44	05/19/17 03:56	1
PCB-1248	**1900**		18	8.4	ug/Kg	☼	05/18/17 10:44	05/19/17 03:56	1
PCB-1254	**700**		18	7.8	ug/Kg	☼	05/18/17 10:44	05/19/17 03:56	1
PCB-1260	**93**		18	12	ug/Kg	☼	05/18/17 10:44	05/19/17 03:56	1
PCB-1262	ND		18	13	ug/Kg	☼	05/18/17 10:44	05/19/17 03:56	1
PCB-1268	ND		18	5.4	ug/Kg	☼	05/18/17 10:44	05/19/17 03:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*81*		*23 - 150*	*05/18/17 10:44*	*05/19/17 03:56*	*1*
DCB Decachlorobiphenyl (Surr)	*81*		*23 - 150*	*05/18/17 10:44*	*05/19/17 03:56*	*1*
Tetrachloro-m-xylene (Surr)	*85*		*27 - 138*	*05/18/17 10:44*	*05/19/17 03:56*	*1*
Tetrachloro-m-xylene (Surr)	*82*		*27 - 138*	*05/18/17 10:44*	*05/19/17 03:56*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**5.8**		0.1	0.1	%			05/18/17 17:39	1
Percent Solids	**94.2**		0.1	0.1	%			05/18/17 17:39	1

Client Sample ID: PS-FD-9

Lab Sample ID: 180-66432-35
Date Collected: 05/17/17 00:00
Matrix: Solid
Date Received: 05/18/17 08:45
Percent Solids: 90.5

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		18	9.8	ug/Kg	☼	05/18/17 10:44	05/19/17 04:17	1
PCB-1221	ND		18	9.5	ug/Kg	☼	05/18/17 10:44	05/19/17 04:17	1
PCB-1232	ND		18	7.3	ug/Kg	☼	05/18/17 10:44	05/19/17 04:17	1
PCB-1242	ND		18	15	ug/Kg	☼	05/18/17 10:44	05/19/17 04:17	1
PCB-1248	**110**		18	8.8	ug/Kg	☼	05/18/17 10:44	05/19/17 04:17	1
PCB-1254	**20**		18	8.1	ug/Kg	☼	05/18/17 10:44	05/19/17 04:17	1
PCB-1260	ND		18	12	ug/Kg	☼	05/18/17 10:44	05/19/17 04:17	1
PCB-1262	ND		18	13	ug/Kg	☼	05/18/17 10:44	05/19/17 04:17	1
PCB-1268	ND		18	5.6	ug/Kg	☼	05/18/17 10:44	05/19/17 04:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*76*		*23 - 150*	*05/18/17 10:44*	*05/19/17 04:17*	*1*
DCB Decachlorobiphenyl (Surr)	*77*		*23 - 150*	*05/18/17 10:44*	*05/19/17 04:17*	*1*
Tetrachloro-m-xylene (Surr)	*78*		*27 - 138*	*05/18/17 10:44*	*05/19/17 04:17*	*1*
Tetrachloro-m-xylene (Surr)	*78*		*27 - 138*	*05/18/17 10:44*	*05/19/17 04:17*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.5**		0.1	0.1	%			05/18/17 17:39	1
Percent Solids	**90.5**		0.1	0.1	%			05/18/17 17:39	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 180-211563/1-C
Matrix: Solid
Analysis Batch: 211615

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 211563

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		17	8.8	ug/Kg		05/18/17 10:42	05/18/17 17:20	1
PCB-1221	ND		17	8.6	ug/Kg		05/18/17 10:42	05/18/17 17:20	1
PCB-1232	ND		17	6.6	ug/Kg		05/18/17 10:42	05/18/17 17:20	1
PCB-1242	ND		17	13	ug/Kg		05/18/17 10:42	05/18/17 17:20	1
PCB-1248	ND		17	8.0	ug/Kg		05/18/17 10:42	05/18/17 17:20	1
PCB-1254	ND		17	7.3	ug/Kg		05/18/17 10:42	05/18/17 17:20	1
PCB-1260	ND		17	11	ug/Kg		05/18/17 10:42	05/18/17 17:20	1
PCB-1262	ND		17	12	ug/Kg		05/18/17 10:42	05/18/17 17:20	1
PCB-1268	ND		17	5.1	ug/Kg		05/18/17 10:42	05/18/17 17:20	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*88*		*23 - 150*	*05/18/17 10:42*	*05/18/17 17:20*	*1*
DCB Decachlorobiphenyl (Surr)	*91*		*23 - 150*	*05/18/17 10:42*	*05/18/17 17:20*	*1*
Tetrachloro-m-xylene (Surr)	*85*		*27 - 138*	*05/18/17 10:42*	*05/18/17 17:20*	*1*
Tetrachloro-m-xylene (Surr)	*85*		*27 - 138*	*05/18/17 10:42*	*05/18/17 17:20*	*1*

Lab Sample ID: LCS 180-211563/2-C
Matrix: Solid
Analysis Batch: 211615

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 211563

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			1330	1030		ug/Kg		77	52 - 126		
PCB-1260			1330	1050		ug/Kg		79	50 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*84*		*23 - 150*
DCB Decachlorobiphenyl (Surr)	*94*		*23 - 150*
Tetrachloro-m-xylene (Surr)	*85*		*27 - 138*
Tetrachloro-m-xylene (Surr)	*82*		*27 - 138*

Lab Sample ID: 180-66432-6 MS
Matrix: Solid
Analysis Batch: 211615

Client Sample ID: SSHS-B800-SUB-8-10
Prep Type: Total/NA
Prep Batch: 211563

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016	ND		1560	ND		ug/Kg	☼	NC	52 - 126		
PCB-1260	25000		1560	31000	4	ug/Kg	☼	399	50 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*0*	*D X*	*23 - 150*
DCB Decachlorobiphenyl (Surr)	*0*	*D X*	*23 - 150*
Tetrachloro-m-xylene (Surr)	*0*	*D X*	*27 - 138*
Tetrachloro-m-xylene (Surr)	*0*	*D X*	*27 - 138*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 180-66432-6 MSD
Matrix: Solid
Analysis Batch: 211615

Client Sample ID: SSHS-B800-SUB-8-10
Prep Type: Total/NA
Prep Batch: 211563

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	ND		1560	ND		ug/Kg	☼	NC	52 - 126	NC	20
PCB-1260	25000		1560	30200	4	ug/Kg	☼	346	50 - 130	3	21

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*0*	*D X*	*23 - 150*
DCB Decachlorobiphenyl (Surr)	*0*	*D X*	*23 - 150*
Tetrachloro-m-xylene (Surr)	*0*	*D X*	*27 - 138*
Tetrachloro-m-xylene (Surr)	*0*	*D X*	*27 - 138*

Lab Sample ID: MB 180-211564/1-C
Matrix: Solid
Analysis Batch: 211615

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 211564

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		17	8.8	ug/Kg		05/18/17 10:44	05/19/17 01:07	1
PCB-1221	ND		17	8.6	ug/Kg		05/18/17 10:44	05/19/17 01:07	1
PCB-1232	ND		17	6.6	ug/Kg		05/18/17 10:44	05/19/17 01:07	1
PCB-1242	ND		17	13	ug/Kg		05/18/17 10:44	05/19/17 01:07	1
PCB-1248	ND		17	8.0	ug/Kg		05/18/17 10:44	05/19/17 01:07	1
PCB-1254	ND		17	7.3	ug/Kg		05/18/17 10:44	05/19/17 01:07	1
PCB-1260	ND		17	11	ug/Kg		05/18/17 10:44	05/19/17 01:07	1
PCB-1262	ND		17	12	ug/Kg		05/18/17 10:44	05/19/17 01:07	1
PCB-1268	ND		17	5.1	ug/Kg		05/18/17 10:44	05/19/17 01:07	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*84*		*23 - 150*	*05/18/17 10:44*	*05/19/17 01:07*	*1*
DCB Decachlorobiphenyl (Surr)	*92*		*23 - 150*	*05/18/17 10:44*	*05/19/17 01:07*	*1*
Tetrachloro-m-xylene (Surr)	*88*		*27 - 138*	*05/18/17 10:44*	*05/19/17 01:07*	*1*
Tetrachloro-m-xylene (Surr)	*87*		*27 - 138*	*05/18/17 10:44*	*05/19/17 01:07*	*1*

Lab Sample ID: LCS 180-211564/2-C
Matrix: Solid
Analysis Batch: 211615

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 211564

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			1330	1110		ug/Kg		83	52 - 126		
PCB-1260			1330	1100		ug/Kg		83	50 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*85*		*23 - 150*
DCB Decachlorobiphenyl (Surr)	*87*		*23 - 150*
Tetrachloro-m-xylene (Surr)	*88*		*27 - 138*
Tetrachloro-m-xylene (Surr)	*86*		*27 - 138*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 180-66432-26 MS
Matrix: Solid
Analysis Batch: 211615

Client Sample ID: SSHS-B802-SUB-8-10
Prep Type: Total/NA
Prep Batch: 211564

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	ND	F1 F2	1510	4750	F1	ug/Kg	☼	315	52 - 126
PCB-1260	580	F1	1510	2440		ug/Kg	☼	123	50 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*100*		*23 - 150*
DCB Decachlorobiphenyl (Surr)	*106*		*23 - 150*
Tetrachloro-m-xylene (Surr)	*97*		*27 - 138*
Tetrachloro-m-xylene (Surr)	*90*		*27 - 138*

Lab Sample ID: 180-66432-26 MSD
Matrix: Solid
Analysis Batch: 211615

Client Sample ID: SSHS-B802-SUB-8-10
Prep Type: Total/NA
Prep Batch: 211564

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	ND	F1 F2	1510	6400	p F1 F2	ug/Kg	☼	424	52 - 126	29	20
PCB-1260	580	F1	1510	3000	F1	ug/Kg	☼	160	50 - 130	21	21

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*94*		*23 - 150*
DCB Decachlorobiphenyl (Surr)	*85*		*23 - 150*
Tetrachloro-m-xylene (Surr)	*87*		*27 - 138*
Tetrachloro-m-xylene (Surr)	*81*		*27 - 138*

Method: 2540G - SM 2540G

Lab Sample ID: 180-66432-1 DU
Matrix: Solid
Analysis Batch: 211638

Client Sample ID: SSHS-B786-SUB-6-8
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	13.3		11.0		%		19	20
Percent Solids	86.7		89.0		%		3	20

Lab Sample ID: 180-66432-14 DU
Matrix: Solid
Analysis Batch: 211638

Client Sample ID: SSHS-B799-SUB-2-4
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	10.3		11.2		%		8	20
Percent Solids	89.7		88.8		%		1	20

GC Semi VOA

Prep Batch: 211563

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-66432-1	SSHS-B786-SUB-6-8	Total/NA	Solid	3541	
180-66432-2	SSHS-B785-SUB-6-8	Total/NA	Solid	3541	
180-66432-3	SSHS-B800-SUB-2-4	Total/NA	Solid	3541	
180-66432-4	SSHS-B800-SUB-4-6	Total/NA	Solid	3541	
180-66432-5	SSHS-B800-SUB-6-8	Total/NA	Solid	3541	
180-66432-6	SSHS-B800-SUB-8-10	Total/NA	Solid	3541	
180-66432-8	SSHS-B800-SUB-12-14	Total/NA	Solid	3541	
180-66432-10	SSHS-B790-SUB-2-4	Total/NA	Solid	3541	
180-66432-11	SSHS-B783-SUB-2-4	Total/NA	Solid	3541	
180-66432-12	PS-FD-7	Total/NA	Solid	3541	
180-66432-14	SSHS-B799-SUB-2-4	Total/NA	Solid	3541	
180-66432-16	SSHS-B799-SUB-10-12	Total/NA	Solid	3541	
180-66432-17	SSHS-B799-SUB-12-14	Total/NA	Solid	3541	
180-66432-20	SSHS-B784-SUB-2-4	Total/NA	Solid	3541	
180-66432-23	SSHS-B805-SUB-4-6	Total/NA	Solid	3541	
180-66432-24	PS-FD-8	Total/NA	Solid	3541	
180-66432-25	SSHS-B805-SUB-10-12	Total/NA	Solid	3541	
MB 180-211563/1-C	Method Blank	Total/NA	Solid	3541	
LCS 180-211563/2-C	Lab Control Sample	Total/NA	Solid	3541	
180-66432-6 MS	SSHS-B800-SUB-8-10	Total/NA	Solid	3541	
180-66432-6 MSD	SSHS-B800-SUB-8-10	Total/NA	Solid	3541	

Prep Batch: 211564

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-66432-26	SSHS-B802-SUB-8-10	Total/NA	Solid	3541	
180-66432-27	SSHS-B802-SUB-12-14	Total/NA	Solid	3541	
180-66432-29	SSHS-B801-SUB-4-6	Total/NA	Solid	3541	
180-66432-30	SSHS-B801-SUB-8-10	Total/NA	Solid	3541	
180-66432-31	SSHS-B801-SUB-10-12	Total/NA	Solid	3541	
180-66432-32	SSHS-B801-SUB-12-14	Total/NA	Solid	3541	
180-66432-35	PS-FD-9	Total/NA	Solid	3541	
MB 180-211564/1-C	Method Blank	Total/NA	Solid	3541	
LCS 180-211564/2-C	Lab Control Sample	Total/NA	Solid	3541	
180-66432-26 MS	SSHS-B802-SUB-8-10	Total/NA	Solid	3541	
180-66432-26 MSD	SSHS-B802-SUB-8-10	Total/NA	Solid	3541	

Cleanup Batch: 211608

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-66432-1	SSHS-B786-SUB-6-8	Total/NA	Solid	3665A	211563
180-66432-2	SSHS-B785-SUB-6-8	Total/NA	Solid	3665A	211563
180-66432-3	SSHS-B800-SUB-2-4	Total/NA	Solid	3665A	211563
180-66432-4	SSHS-B800-SUB-4-6	Total/NA	Solid	3665A	211563
180-66432-5	SSHS-B800-SUB-6-8	Total/NA	Solid	3665A	211563
180-66432-6	SSHS-B800-SUB-8-10	Total/NA	Solid	3665A	211563
180-66432-8	SSHS-B800-SUB-12-14	Total/NA	Solid	3665A	211563
180-66432-10	SSHS-B790-SUB-2-4	Total/NA	Solid	3665A	211563
180-66432-11	SSHS-B783-SUB-2-4	Total/NA	Solid	3665A	211563
180-66432-12	PS-FD-7	Total/NA	Solid	3665A	211563
180-66432-14	SSHS-B799-SUB-2-4	Total/NA	Solid	3665A	211563
180-66432-16	SSHS-B799-SUB-10-12	Total/NA	Solid	3665A	211563
180-66432-17	SSHS-B799-SUB-12-14	Total/NA	Solid	3665A	211563

GC Semi VOA (Continued)

Cleanup Batch: 211608 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-66432-20	SSHS-B784-SUB-2-4	Total/NA	Solid	3665A	211563
180-66432-23	SSHS-B805-SUB-4-6	Total/NA	Solid	3665A	211563
180-66432-24	PS-FD-8	Total/NA	Solid	3665A	211563
180-66432-25	SSHS-B805-SUB-10-12	Total/NA	Solid	3665A	211563
MB 180-211563/1-C	Method Blank	Total/NA	Solid	3665A	211563
LCS 180-211563/2-C	Lab Control Sample	Total/NA	Solid	3665A	211563
180-66432-6 MS	SSHS-B800-SUB-8-10	Total/NA	Solid	3665A	211563
180-66432-6 MSD	SSHS-B800-SUB-8-10	Total/NA	Solid	3665A	211563

Cleanup Batch: 211609

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-66432-26	SSHS-B802-SUB-8-10	Total/NA	Solid	3665A	211564
180-66432-27	SSHS-B802-SUB-12-14	Total/NA	Solid	3665A	211564
180-66432-29	SSHS-B801-SUB-4-6	Total/NA	Solid	3665A	211564
180-66432-30	SSHS-B801-SUB-8-10	Total/NA	Solid	3665A	211564
180-66432-31	SSHS-B801-SUB-10-12	Total/NA	Solid	3665A	211564
180-66432-32	SSHS-B801-SUB-12-14	Total/NA	Solid	3665A	211564
180-66432-35	PS-FD-9	Total/NA	Solid	3665A	211564
MB 180-211564/1-C	Method Blank	Total/NA	Solid	3665A	211564
LCS 180-211564/2-C	Lab Control Sample	Total/NA	Solid	3665A	211564
180-66432-26 MS	SSHS-B802-SUB-8-10	Total/NA	Solid	3665A	211564
180-66432-26 MSD	SSHS-B802-SUB-8-10	Total/NA	Solid	3665A	211564

Cleanup Batch: 211611

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-66432-1	SSHS-B786-SUB-6-8	Total/NA	Solid	3660B	211608
180-66432-2	SSHS-B785-SUB-6-8	Total/NA	Solid	3660B	211608
180-66432-3	SSHS-B800-SUB-2-4	Total/NA	Solid	3660B	211608
180-66432-4	SSHS-B800-SUB-4-6	Total/NA	Solid	3660B	211608
180-66432-5	SSHS-B800-SUB-6-8	Total/NA	Solid	3660B	211608
180-66432-6	SSHS-B800-SUB-8-10	Total/NA	Solid	3660B	211608
180-66432-8	SSHS-B800-SUB-12-14	Total/NA	Solid	3660B	211608
180-66432-10	SSHS-B790-SUB-2-4	Total/NA	Solid	3660B	211608
180-66432-11	SSHS-B783-SUB-2-4	Total/NA	Solid	3660B	211608
180-66432-12	PS-FD-7	Total/NA	Solid	3660B	211608
180-66432-14	SSHS-B799-SUB-2-4	Total/NA	Solid	3660B	211608
180-66432-16	SSHS-B799-SUB-10-12	Total/NA	Solid	3660B	211608
180-66432-17	SSHS-B799-SUB-12-14	Total/NA	Solid	3660B	211608
180-66432-20	SSHS-B784-SUB-2-4	Total/NA	Solid	3660B	211608
180-66432-23	SSHS-B805-SUB-4-6	Total/NA	Solid	3660B	211608
180-66432-24	PS-FD-8	Total/NA	Solid	3660B	211608
180-66432-25	SSHS-B805-SUB-10-12	Total/NA	Solid	3660B	211608
MB 180-211563/1-C	Method Blank	Total/NA	Solid	3660B	211608
LCS 180-211563/2-C	Lab Control Sample	Total/NA	Solid	3660B	211608
180-66432-6 MS	SSHS-B800-SUB-8-10	Total/NA	Solid	3660B	211608
180-66432-6 MSD	SSHS-B800-SUB-8-10	Total/NA	Solid	3660B	211608

Cleanup Batch: 211612

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-66432-26	SSHS-B802-SUB-8-10	Total/NA	Solid	3660B	211609
180-66432-27	SSHS-B802-SUB-12-14	Total/NA	Solid	3660B	211609

GC Semi VOA (Continued)

Cleanup Batch: 211612 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-66432-29	SSHS-B801-SUB-4-6	Total/NA	Solid	3660B	211609
180-66432-30	SSHS-B801-SUB-8-10	Total/NA	Solid	3660B	211609
180-66432-31	SSHS-B801-SUB-10-12	Total/NA	Solid	3660B	211609
180-66432-32	SSHS-B801-SUB-12-14	Total/NA	Solid	3660B	211609
180-66432-35	PS-FD-9	Total/NA	Solid	3660B	211609
MB 180-211564/1-C	Method Blank	Total/NA	Solid	3660B	211609
LCS 180-211564/2-C	Lab Control Sample	Total/NA	Solid	3660B	211609
180-66432-26 MS	SSHS-B802-SUB-8-10	Total/NA	Solid	3660B	211609
180-66432-26 MSD	SSHS-B802-SUB-8-10	Total/NA	Solid	3660B	211609

Analysis Batch: 211615

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-66432-1	SSHS-B786-SUB-6-8	Total/NA	Solid	8082A	211611
180-66432-2	SSHS-B785-SUB-6-8	Total/NA	Solid	8082A	211611
180-66432-3	SSHS-B800-SUB-2-4	Total/NA	Solid	8082A	211611
180-66432-4	SSHS-B800-SUB-4-6	Total/NA	Solid	8082A	211611
180-66432-5	SSHS-B800-SUB-6-8	Total/NA	Solid	8082A	211611
180-66432-6	SSHS-B800-SUB-8-10	Total/NA	Solid	8082A	211611
180-66432-8	SSHS-B800-SUB-12-14	Total/NA	Solid	8082A	211611
180-66432-10	SSHS-B790-SUB-2-4	Total/NA	Solid	8082A	211611
180-66432-11	SSHS-B783-SUB-2-4	Total/NA	Solid	8082A	211611
180-66432-12	PS-FD-7	Total/NA	Solid	8082A	211611
180-66432-14	SSHS-B799-SUB-2-4	Total/NA	Solid	8082A	211611
180-66432-16	SSHS-B799-SUB-10-12	Total/NA	Solid	8082A	211611
180-66432-17	SSHS-B799-SUB-12-14	Total/NA	Solid	8082A	211611
180-66432-20	SSHS-B784-SUB-2-4	Total/NA	Solid	8082A	211611
180-66432-23	SSHS-B805-SUB-4-6	Total/NA	Solid	8082A	211611
180-66432-24	PS-FD-8	Total/NA	Solid	8082A	211611
180-66432-25	SSHS-B805-SUB-10-12	Total/NA	Solid	8082A	211611
180-66432-26	SSHS-B802-SUB-8-10	Total/NA	Solid	8082A	211612
180-66432-27	SSHS-B802-SUB-12-14	Total/NA	Solid	8082A	211612
180-66432-29	SSHS-B801-SUB-4-6	Total/NA	Solid	8082A	211612
180-66432-30	SSHS-B801-SUB-8-10	Total/NA	Solid	8082A	211612
180-66432-31	SSHS-B801-SUB-10-12	Total/NA	Solid	8082A	211612
180-66432-32	SSHS-B801-SUB-12-14	Total/NA	Solid	8082A	211612
180-66432-35	PS-FD-9	Total/NA	Solid	8082A	211612
MB 180-211563/1-C	Method Blank	Total/NA	Solid	8082A	211611
MB 180-211564/1-C	Method Blank	Total/NA	Solid	8082A	211612
LCS 180-211563/2-C	Lab Control Sample	Total/NA	Solid	8082A	211611
LCS 180-211564/2-C	Lab Control Sample	Total/NA	Solid	8082A	211612
180-66432-6 MS	SSHS-B800-SUB-8-10	Total/NA	Solid	8082A	211611
180-66432-6 MSD	SSHS-B800-SUB-8-10	Total/NA	Solid	8082A	211611
180-66432-26 MS	SSHS-B802-SUB-8-10	Total/NA	Solid	8082A	211612
180-66432-26 MSD	SSHS-B802-SUB-8-10	Total/NA	Solid	8082A	211612

General Chemistry

Analysis Batch: 211637

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-66432-30	SSHS-B801-SUB-8-10	Total/NA	Solid	2540G	

General Chemistry (Continued)

Analysis Batch: 211637 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-66432-31	SSHS-B801-SUB-10-12	Total/NA	Solid	2540G	
180-66432-32	SSHS-B801-SUB-12-14	Total/NA	Solid	2540G	
180-66432-35	PS-FD-9	Total/NA	Solid	2540G	

Analysis Batch: 211638

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-66432-1	SSHS-B786-SUB-6-8	Total/NA	Solid	2540G	
180-66432-2	SSHS-B785-SUB-6-8	Total/NA	Solid	2540G	
180-66432-3	SSHS-B800-SUB-2-4	Total/NA	Solid	2540G	
180-66432-4	SSHS-B800-SUB-4-6	Total/NA	Solid	2540G	
180-66432-5	SSHS-B800-SUB-6-8	Total/NA	Solid	2540G	
180-66432-6	SSHS-B800-SUB-8-10	Total/NA	Solid	2540G	
180-66432-8	SSHS-B800-SUB-12-14	Total/NA	Solid	2540G	
180-66432-10	SSHS-B790-SUB-2-4	Total/NA	Solid	2540G	
180-66432-11	SSHS-B783-SUB-2-4	Total/NA	Solid	2540G	
180-66432-12	PS-FD-7	Total/NA	Solid	2540G	
180-66432-14	SSHS-B799-SUB-2-4	Total/NA	Solid	2540G	
180-66432-16	SSHS-B799-SUB-10-12	Total/NA	Solid	2540G	
180-66432-17	SSHS-B799-SUB-12-14	Total/NA	Solid	2540G	
180-66432-20	SSHS-B784-SUB-2-4	Total/NA	Solid	2540G	
180-66432-23	SSHS-B805-SUB-4-6	Total/NA	Solid	2540G	
180-66432-24	PS-FD-8	Total/NA	Solid	2540G	
180-66432-25	SSHS-B805-SUB-10-12	Total/NA	Solid	2540G	
180-66432-26	SSHS-B802-SUB-8-10	Total/NA	Solid	2540G	
180-66432-27	SSHS-B802-SUB-12-14	Total/NA	Solid	2540G	
180-66432-29	SSHS-B801-SUB-4-6	Total/NA	Solid	2540G	
180-66432-1 DU	SSHS-B786-SUB-6-8	Total/NA	Solid	2540G	
180-66432-14 DU	SSHS-B799-SUB-2-4	Total/NA	Solid	2540G	

TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
phone 412.963.7058 fax 412.963.2468

180-66432 Chain of Custody

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

☐ DW ☐ NPDES ☐ RCRA ☑ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Aron Krasnopoler	Site Contact: Jay Thompson	Date: 5/17/17	COC No:
Geosyntec Consultants	Tel/Fax: 401-381-4333	Lab Contact: Dave Dunlap	Carrier: FedEx	1 of 3 COCs
10211 Wincopin Circle, 4th Floor	Analysis Turnaround Time			Sampler: JT
Columbia, MD 21044	☐ CALENDAR DAYS ☑ WORKING DAYS			For Lab Use Only:
410-381-4333 Phone	TAT if different from Below _____			Walk-in Client:
410-381-4499 FAX	☐ 2 weeks			Lab Sampling:
Project Name: Former Sperry Remington Site - North	☐ 1 week			Job / SDG No.:
Site: Elmira	☐ 2 days			
P O # MN0832B	☑ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	PCBs - 8082A	Sample Specific Notes:
SS HS - B786 - SUB - 6 - 8	5/17/17	0735	C	S	2	N	N	X	
SS HS - B785 - SUB - 6 - 8 JT 5/17/17		0750	C	S	2	N	N	X	
SS HS - B800 - SUB - 2 - 4		0800	C	S	2	N	N	X	
SS HS - B800 - SUB - 4 - 6		0805	C	S	2	N	N	X	
SS HS - B800 - SUB - 6 - 8		0805	C	S	2	N	N	X	
SS HS - B800 - SUB - 8 - 10		0810	C	S	4	N	Y	X	PS-MS/MSD - 4
SS HS - B800 - SUB - 10 - 12		0810	C	S	3	N	N	X	HOLD
SS HS - B800 - SUB - 12 - 14		0820	C	S	2	N	N	X	
SS HS - B800 - SUB - 14 - 16		0820	C	S	2	N	N	X	HOLD
SS HS - B790 - SUB - 2 - 4		0840	C	S	2	N	N	X	
SS HS - B783 - SUB - 2 - 4		0925	C	S	2	N	N	X	
PS - FD - 7		X	C	S	2	N	N	X	

RUSH

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____ 1

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

5.8°C
5.0°C minus #2 CF 0.0°C DAD 5/18/17

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temp. (°C): Obs'd: _____ Corr'd: _____	Therm ID No.: _____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Jay Thompson	Geosyntec	5/17/17 1730			
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Form No. CA-C-WI-002, Rev. 4.3, dated 12/05/2013

5/19/2017

TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
phone 412.963.7058 fax 412.963.2468

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☑Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Aron Krasnopoler	Site Contact: Jay Thompson	Date: 5/17/17	COC No:
Geosyntec Consultants	Tel/Fax: 401-381-4333	Lab Contact: Dave Dunlap	Carrier: FedEx	2 of 3 COCs
10211 Wincopin Circle, 4th Floor	Analysis Turnaround Time			Sampler: JT
Columbia, MD 21044	☐CALENDAR DAYS ☑WORKING DAYS			For Lab Use Only:
410-381-4333 Phone	TAT if different from Below _____			Walk-in Client:
410-381-4499 FAX	☐ 2 weeks			Lab Sampling:
Project Name: Former Sperry Remington Site - North	☐ 1 week			
Site: Elmira	☐ 2 days			Job / SDG No.:
P O # MN0832B	☑ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	PCBs -8082A	Sample Specific Notes:
SS HS-B783-SUB-4-6	5/17/17	0930	C	S	2	N	N	X	HOLD
SS HS-B799-SUB-2-4		0945	C	S	2	N	N	X	
SS HS-B799-SUB-4-6		0950	C	S	2	N	N	X	HOLD
SS HS-B799-SUB-10-12		0955	C	S	2	N	N	X	
SS HS-B799-SUB-12-14		1000	C	S	2	N	N	X	
SS HS-B799-SUB-14-16		1000	C	S	2	N	N	X	HOLD
SS HS-B810-SUB-4-6		1020	C	S	2	N	N	X	HOLD
SS HS-B784-SUB-2-4		1035	C	S	3	N	N	X	
SS HS-B784-SUB-4-6		1040	C	S	2	N	N	X	HOLD
SS HS-B813-SUB-14-16		1115	C	S	2	N	N	X	HOLD
SS HS-B805-SUB-4-6		1305	C	S	2	N	N	X	
PS.FD-8	↓	X	C	S	2	N	N	X	

Preservation Used: 1= Ice, 2= HCl; 3= H_2SO_4; 4=HNO_3; 5=NaOH; 6= Other _____

1

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑Non-Hazard ☐Flammable ☐Skin Irritant ☐Poison B ☐Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐Return to Client ☑Disposal by Lab ☐Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd:_____ Corr'd:_____ | Therm ID No.:_____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Jay Thompson	Geosyntec	5/17/17 1730			
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Form No. CA-C-WI-002, Rev. 4.3, dated 12/05/2013

5/19/2017

TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
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Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☑Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Aron Krasnopoler	Site Contact: Jay Thompson	Date: 5/17/17	COC No:
Geosyntec Consultants	Tel/Fax: 401-381-4333	Lab Contact: Dave Dunlap	Carrier: FedEx	3 of 3 COCs
10211 Wincopin Circle, 4th Floor	Analysis Turnaround Time			Sampler: JT
Columbia, MD 21044	☐CALENDAR DAYS ☑WORKING DAYS			For Lab Use Only:
410-381-4333 Phone	TAT if different from Below _____			Walk-in Client:
410-381-4499 FAX	☐ 2 weeks			Lab Sampling:
Project Name: Former Sperry Remington Site - North	☐ 1 week			
Site: Elmira	☐ 2 days			Job / SDG No.:
P O # MN0832B	☑ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	PCBs -8082A	Sample Specific Notes:
SSHS-B805-SUB-10-12	5/16/17	1310	C	S	2	N	N	X	
SSHS-B802-SUB-8-10		1335	C	S	4	N	Y	X	PS-MS/MSD-5
SSHS-B802-SUB-12-14		1340	C	S	2	N	N	X	
SSHS-B802.SUB-14-16		1340	C	S	2	N	N	X	HOLD
SSHS-B801-SUB-4-6		1400	C	S	2	N	N	X	
SSHS-B801-SUB-8-10		1405	C	S	2	N	N	X	
SSHS-B801-SUB-10-12		1405	C	S	2	N	N	X	
SSHS-B801-SUB-12-14		1410	C	S	2	N	N	X	
SSHS-B801-SUB-14-16		1410	C	S	2	N	N	X	HOLD
SSHS-B789-SUB-2-4		1420	C	S	2	N	N	X	HOLD
									I= 5/17/17
PS-FD-9	5/17/17	X	C	S	2	N	N	X	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑Non-Hazard ☐Flammable ☐Skin Irritant ☐Poison B ☐Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐Return to Client ☑Disposal by Lab ☐Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd:_____ Corr'd:_____ Therm ID No.:_____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Jay Thompson	Geosyntec	5/17/17 1730			
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Form No. CA-C-WI-002, Rev. 4.3, dated 12/05/2013

5/19/2017

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 180-66432-1

Login Number: 66432
List Number: 1
Creator: Dunlap, David A

List Source: TestAmerica Pittsburgh

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

TestAmerica Job ID: 180-66476-1
Client Project/Site: Former Sperry Remington Site - North

For:
Geosyntec Consultants, Inc.
10211 Wincopin Circle
4'th Floor
Columbia, Maryland 21044

Attn: Mr. Aron Krasnopoler

Authorized for release by:
5/22/2017 11:29:22 AM

David Dunlap, Senior Project Manager
(412)963-2432
david.dunlap@testamericainc.com

Links

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Job ID: 180-66476-1

Laboratory: TestAmerica Pittsburgh

Narrative

Job Narrative
180-66476-1

Receipt
The samples were received on 5/19/2017 9:10 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 1.1º C and 1.9º C.

GC Semi VOA
Method(s) 8082A: The continuing calibration verification (CCV) analyzed in batch 180-211798 was below criteria for arcolor 1248 (CCV 180-211798/4) on column RTX-CLP1. All positive detections in the associated samples were reported from column RTX-CLP2, which met criteria. The % difference between the sample results on both columns was <40%.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Definitions/Glossary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North

TestAmerica Job ID: 180-66476-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc. TestAmerica Job ID: 180-66476-1
Project/Site: Former Sperry Remington Site - North

Laboratory: TestAmerica Pittsburgh

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	11182	03-31-18

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
2540G		Solid	Percent Moisture
2540G		Solid	Percent Solids

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North

TestAmerica Job ID: 180-66476-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-66476-1	SSHS-B814-SS	Solid	05/18/17 07:40	05/19/17 09:10
180-66476-3	SSHS-B815-SS	Solid	05/18/17 07:55	05/19/17 09:10
180-66476-4	SSHS-B815-SUB-0.17-2	Solid	05/18/17 08:00	05/19/17 09:10
180-66476-5	SSHS-B816-SS	Solid	05/18/17 08:15	05/19/17 09:10
180-66476-7	SSHS-B817-SS	Solid	05/18/17 08:05	05/19/17 09:10
180-66476-9	SSHS-B818-SS	Solid	05/18/17 08:30	05/19/17 09:10
180-66476-11	PS-FD-10	Solid	05/18/17 00:00	05/19/17 09:10

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North

TestAmerica Job ID: 180-66476-1

Method	Method Description	Protocol	Laboratory
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL PIT
2540G	SM 2540G	SM22	TAL PIT

Protocol References:

SM22 = SM22

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North

TestAmerica Job ID: 180-66476-1

Client Sample ID: SSHS-B814-SS
Date Collected: 05/18/17 07:40
Date Received: 05/19/17 09:10

Lab Sample ID: 180-66476-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			211756	05/20/17 00:03	JJZ	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B814-SS
Date Collected: 05/18/17 07:40
Date Received: 05/19/17 09:10

Lab Sample ID: 180-66476-1
Matrix: Solid
Percent Solids: 74.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.2 g	20.0 mL	211699	05/19/17 10:17	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	211803	05/21/17 09:19	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	211804	05/21/17 09:20	JMO	TAL PIT
Total/NA	Analysis	8082A		1			211798	05/21/17 13:12	JMO	TAL PIT
	Instrument ID: CHGC8									

Client Sample ID: SSHS-B815-SS
Date Collected: 05/18/17 07:55
Date Received: 05/19/17 09:10

Lab Sample ID: 180-66476-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			211722	05/19/17 19:24	JJZ	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B815-SS
Date Collected: 05/18/17 07:55
Date Received: 05/19/17 09:10

Lab Sample ID: 180-66476-3
Matrix: Solid
Percent Solids: 75.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.4 g	20.0 mL	211699	05/19/17 10:17	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	211803	05/21/17 09:19	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	211804	05/21/17 09:20	JMO	TAL PIT
Total/NA	Analysis	8082A		1			211798	05/21/17 13:32	JMO	TAL PIT
	Instrument ID: CHGC8									

Client Sample ID: SSHS-B815-SUB-0.17-2
Date Collected: 05/18/17 08:00
Date Received: 05/19/17 09:10

Lab Sample ID: 180-66476-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			211722	05/19/17 23:24	JJZ	TAL PIT
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North

TestAmerica Job ID: 180-66476-1

Client Sample ID: SSHS-B815-SUB-0.17-2

Lab Sample ID: 180-66476-4
Date Collected: 05/18/17 08:00
Matrix: Solid
Date Received: 05/19/17 09:10
Percent Solids: 85.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.3 g	20.0 mL	211699	05/19/17 10:17	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	211803	05/21/17 09:19	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	211804	05/21/17 09:20	JMO	TAL PIT
Total/NA	Analysis	8082A		1			211798	05/21/17 13:52	JMO	TAL PIT
	Instrument ID: CHGC8									

Client Sample ID: SSHS-B816-SS

Lab Sample ID: 180-66476-5
Date Collected: 05/18/17 08:15
Matrix: Solid
Date Received: 05/19/17 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			211729	05/20/17 05:36	JJZ	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B816-SS

Lab Sample ID: 180-66476-5
Date Collected: 05/18/17 08:15
Matrix: Solid
Date Received: 05/19/17 09:10
Percent Solids: 78.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.2 g	20.0 mL	211699	05/19/17 10:17	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	211803	05/21/17 09:19	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	211804	05/21/17 09:20	JMO	TAL PIT
Total/NA	Analysis	8082A		1			211798	05/21/17 14:12	JMO	TAL PIT
	Instrument ID: CHGC8									

Client Sample ID: SSHS-B817-SS

Lab Sample ID: 180-66476-7
Date Collected: 05/18/17 08:05
Matrix: Solid
Date Received: 05/19/17 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			211729	05/20/17 09:33	JJZ	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B817-SS

Lab Sample ID: 180-66476-7
Date Collected: 05/18/17 08:05
Matrix: Solid
Date Received: 05/19/17 09:10
Percent Solids: 77.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	211699	05/19/17 10:17	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	211803	05/21/17 09:19	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	211804	05/21/17 09:20	JMO	TAL PIT
Total/NA	Analysis	8082A		1			211798	05/21/17 14:32	JMO	TAL PIT
	Instrument ID: CHGC8									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North

TestAmerica Job ID: 180-66476-1

Client Sample ID: SSHS-B818-SS
Date Collected: 05/18/17 08:30
Date Received: 05/19/17 09:10

Lab Sample ID: 180-66476-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			211729	05/20/17 07:34	JJZ	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B818-SS
Date Collected: 05/18/17 08:30
Date Received: 05/19/17 09:10

Lab Sample ID: 180-66476-9
Matrix: Solid
Percent Solids: 76.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.4 g	20.0 mL	211699	05/19/17 10:17	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	211803	05/21/17 09:19	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	211804	05/21/17 09:20	JMO	TAL PIT
Total/NA	Analysis	8082A		1			211798	05/21/17 14:53	JMO	TAL PIT
	Instrument ID: CHGC8									

Client Sample ID: PS-FD-10
Date Collected: 05/18/17 00:00
Date Received: 05/19/17 09:10

Lab Sample ID: 180-66476-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			211722	05/20/17 04:24	JJZ	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: PS-FD-10
Date Collected: 05/18/17 00:00
Date Received: 05/19/17 09:10

Lab Sample ID: 180-66476-11
Matrix: Solid
Percent Solids: 83.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.3 g	20.0 mL	211699	05/19/17 10:17	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	211803	05/21/17 09:19	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	211804	05/21/17 09:20	JMO	TAL PIT
Total/NA	Analysis	8082A		1			211798	05/21/17 15:13	JMO	TAL PIT
	Instrument ID: CHGC8									

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North

TestAmerica Job ID: 180-66476-1

Analyst References:

Lab: TAL PIT

Batch Type: Cleanup

JMO = John Oravec

Batch Type: Prep

BAP = Brian Pino

Batch Type: Analysis

JJZ = Joseph Zubrow

JMO = John Oravec

Client Sample ID: SSHS-B814-SS

Lab Sample ID: 180-66476-1
Date Collected: 05/18/17 07:40
Matrix: Solid
Date Received: 05/19/17 09:10
Percent Solids: 74.7

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		22	12	ug/Kg	☼	05/19/17 10:17	05/21/17 13:12	1
PCB-1221	ND		22	11	ug/Kg	☼	05/19/17 10:17	05/21/17 13:12	1
PCB-1232	ND		22	8.7	ug/Kg	☼	05/19/17 10:17	05/21/17 13:12	1
PCB-1242	ND		22	17	ug/Kg	☼	05/19/17 10:17	05/21/17 13:12	1
PCB-1248	**1200**		22	11	ug/Kg	☼	05/19/17 10:17	05/21/17 13:12	1
PCB-1254	**980**		22	9.7	ug/Kg	☼	05/19/17 10:17	05/21/17 13:12	1
PCB-1260	**210**		22	15	ug/Kg	☼	05/19/17 10:17	05/21/17 13:12	1
PCB-1262	ND		22	16	ug/Kg	☼	05/19/17 10:17	05/21/17 13:12	1
PCB-1268	ND		22	6.7	ug/Kg	☼	05/19/17 10:17	05/21/17 13:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*91*		*23 - 150*	*05/19/17 10:17*	*05/21/17 13:12*	*1*
DCB Decachlorobiphenyl (Surr)	*94*		*23 - 150*	*05/19/17 10:17*	*05/21/17 13:12*	*1*
Tetrachloro-m-xylene (Surr)	*91*		*27 - 138*	*05/19/17 10:17*	*05/21/17 13:12*	*1*
Tetrachloro-m-xylene (Surr)	*81*		*27 - 138*	*05/19/17 10:17*	*05/21/17 13:12*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**25.3**		0.1	0.1	%			05/20/17 00:03	1
Percent Solids	**74.7**		0.1	0.1	%			05/20/17 00:03	1

Client Sample ID: SSHS-B815-SS

Lab Sample ID: 180-66476-3
Date Collected: 05/18/17 07:55
Matrix: Solid
Date Received: 05/19/17 09:10
Percent Solids: 75.3

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		22	11	ug/Kg	☼	05/19/17 10:17	05/21/17 13:32	1
PCB-1221	ND		22	11	ug/Kg	☼	05/19/17 10:17	05/21/17 13:32	1
PCB-1232	ND		22	8.5	ug/Kg	☼	05/19/17 10:17	05/21/17 13:32	1
PCB-1242	ND		22	17	ug/Kg	☼	05/19/17 10:17	05/21/17 13:32	1
PCB-1248	**1600**		22	10	ug/Kg	☼	05/19/17 10:17	05/21/17 13:32	1
PCB-1254	**1600**		22	9.5	ug/Kg	☼	05/19/17 10:17	05/21/17 13:32	1
PCB-1260	**400**	**p**	22	14	ug/Kg	☼	05/19/17 10:17	05/21/17 13:32	1
PCB-1262	ND		22	15	ug/Kg	☼	05/19/17 10:17	05/21/17 13:32	1
PCB-1268	ND		22	6.6	ug/Kg	☼	05/19/17 10:17	05/21/17 13:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*80*		*23 - 150*	*05/19/17 10:17*	*05/21/17 13:32*	*1*
DCB Decachlorobiphenyl (Surr)	*82*		*23 - 150*	*05/19/17 10:17*	*05/21/17 13:32*	*1*
Tetrachloro-m-xylene (Surr)	*77*		*27 - 138*	*05/19/17 10:17*	*05/21/17 13:32*	*1*
Tetrachloro-m-xylene (Surr)	*69*		*27 - 138*	*05/19/17 10:17*	*05/21/17 13:32*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**24.7**		0.1	0.1	%			05/19/17 19:24	1
Percent Solids	**75.3**		0.1	0.1	%			05/19/17 19:24	1

Client Sample ID: SSHS-B815-SUB-0.17-2

Lab Sample ID: 180-66476-4
Date Collected: 05/18/17 08:00
Matrix: Solid
Date Received: 05/19/17 09:10
Percent Solids: 85.0

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		19	10	ug/Kg	☼	05/19/17 10:17	05/21/17 13:52	1
PCB-1221	ND		19	10	ug/Kg	☼	05/19/17 10:17	05/21/17 13:52	1
PCB-1232	ND		19	7.6	ug/Kg	☼	05/19/17 10:17	05/21/17 13:52	1
PCB-1242	ND		19	15	ug/Kg	☼	05/19/17 10:17	05/21/17 13:52	1
PCB-1248	**3700**		19	9.2	ug/Kg	☼	05/19/17 10:17	05/21/17 13:52	1
PCB-1254	**2800**		19	8.4	ug/Kg	☼	05/19/17 10:17	05/21/17 13:52	1
PCB-1260	**560**		19	13	ug/Kg	☼	05/19/17 10:17	05/21/17 13:52	1
PCB-1262	ND		19	14	ug/Kg	☼	05/19/17 10:17	05/21/17 13:52	1
PCB-1268	ND		19	5.9	ug/Kg	☼	05/19/17 10:17	05/21/17 13:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*78*		*23 - 150*	*05/19/17 10:17*	*05/21/17 13:52*	*1*
DCB Decachlorobiphenyl (Surr)	*79*		*23 - 150*	*05/19/17 10:17*	*05/21/17 13:52*	*1*
Tetrachloro-m-xylene (Surr)	*71*		*27 - 138*	*05/19/17 10:17*	*05/21/17 13:52*	*1*
Tetrachloro-m-xylene (Surr)	*65*		*27 - 138*	*05/19/17 10:17*	*05/21/17 13:52*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**15.0**		0.1	0.1	%			05/19/17 23:24	1
Percent Solids	**85.0**		0.1	0.1	%			05/19/17 23:24	1

Client Sample ID: SSHS-B816-SS

Lab Sample ID: 180-66476-5
Date Collected: 05/18/17 08:15
Matrix: Solid
Date Received: 05/19/17 09:10
Percent Solids: 78.5

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		21	11	ug/Kg	☼	05/19/17 10:17	05/21/17 14:12	1
PCB-1221	ND		21	11	ug/Kg	☼	05/19/17 10:17	05/21/17 14:12	1
PCB-1232	ND		21	8.3	ug/Kg	☼	05/19/17 10:17	05/21/17 14:12	1
PCB-1242	ND		21	17	ug/Kg	☼	05/19/17 10:17	05/21/17 14:12	1
PCB-1248	**750**		21	10	ug/Kg	☼	05/19/17 10:17	05/21/17 14:12	1
PCB-1254	**530**		21	9.2	ug/Kg	☼	05/19/17 10:17	05/21/17 14:12	1
PCB-1260	**130**		21	14	ug/Kg	☼	05/19/17 10:17	05/21/17 14:12	1
PCB-1262	ND		21	15	ug/Kg	☼	05/19/17 10:17	05/21/17 14:12	1
PCB-1268	ND		21	6.4	ug/Kg	☼	05/19/17 10:17	05/21/17 14:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*81*		*23 - 150*	*05/19/17 10:17*	*05/21/17 14:12*	*1*
DCB Decachlorobiphenyl (Surr)	*84*		*23 - 150*	*05/19/17 10:17*	*05/21/17 14:12*	*1*
Tetrachloro-m-xylene (Surr)	*81*		*27 - 138*	*05/19/17 10:17*	*05/21/17 14:12*	*1*
Tetrachloro-m-xylene (Surr)	*71*		*27 - 138*	*05/19/17 10:17*	*05/21/17 14:12*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**21.5**		0.1	0.1	%			05/20/17 05:36	1
Percent Solids	**78.5**		0.1	0.1	%			05/20/17 05:36	1

Client Sample ID: SSHS-B817-SS

Date Collected: 05/18/17 08:05
Date Received: 05/19/17 09:10

Lab Sample ID: 180-66476-7
Matrix: Solid
Percent Solids: 77.9

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		21	11	ug/Kg	☼	05/19/17 10:17	05/21/17 14:32	1
PCB-1221	ND		21	11	ug/Kg	☼	05/19/17 10:17	05/21/17 14:32	1
PCB-1232	ND		21	8.5	ug/Kg	☼	05/19/17 10:17	05/21/17 14:32	1
PCB-1242	ND		21	17	ug/Kg	☼	05/19/17 10:17	05/21/17 14:32	1
PCB-1248	**140**		21	10	ug/Kg	☼	05/19/17 10:17	05/21/17 14:32	1
PCB-1254	**140**		21	9.4	ug/Kg	☼	05/19/17 10:17	05/21/17 14:32	1
PCB-1260	**52**		21	14	ug/Kg	☼	05/19/17 10:17	05/21/17 14:32	1
PCB-1262	ND		21	15	ug/Kg	☼	05/19/17 10:17	05/21/17 14:32	1
PCB-1268	ND		21	6.5	ug/Kg	☼	05/19/17 10:17	05/21/17 14:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*71*		*23 - 150*	*05/19/17 10:17*	*05/21/17 14:32*	*1*
DCB Decachlorobiphenyl (Surr)	*70*		*23 - 150*	*05/19/17 10:17*	*05/21/17 14:32*	*1*
Tetrachloro-m-xylene (Surr)	*65*		*27 - 138*	*05/19/17 10:17*	*05/21/17 14:32*	*1*
Tetrachloro-m-xylene (Surr)	*59*		*27 - 138*	*05/19/17 10:17*	*05/21/17 14:32*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**22.1**		0.1	0.1	%			05/20/17 09:33	1
Percent Solids	**77.9**		0.1	0.1	%			05/20/17 09:33	1

Client Sample ID: SSHS-B818-SS

Date Collected: 05/18/17 08:30
Date Received: 05/19/17 09:10

Lab Sample ID: 180-66476-9
Matrix: Solid
Percent Solids: 76.2

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		21	11	ug/Kg	☼	05/19/17 10:17	05/21/17 14:53	1
PCB-1221	ND		21	11	ug/Kg	☼	05/19/17 10:17	05/21/17 14:53	1
PCB-1232	ND		21	8.4	ug/Kg	☼	05/19/17 10:17	05/21/17 14:53	1
PCB-1242	ND		21	17	ug/Kg	☼	05/19/17 10:17	05/21/17 14:53	1
PCB-1248	**640**		21	10	ug/Kg	☼	05/19/17 10:17	05/21/17 14:53	1
PCB-1254	**600**		21	9.3	ug/Kg	☼	05/19/17 10:17	05/21/17 14:53	1
PCB-1260	**140**		21	14	ug/Kg	☼	05/19/17 10:17	05/21/17 14:53	1
PCB-1262	ND		21	15	ug/Kg	☼	05/19/17 10:17	05/21/17 14:53	1
PCB-1268	ND		21	6.5	ug/Kg	☼	05/19/17 10:17	05/21/17 14:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*65*		*23 - 150*	*05/19/17 10:17*	*05/21/17 14:53*	*1*
DCB Decachlorobiphenyl (Surr)	*68*		*23 - 150*	*05/19/17 10:17*	*05/21/17 14:53*	*1*
Tetrachloro-m-xylene (Surr)	*61*		*27 - 138*	*05/19/17 10:17*	*05/21/17 14:53*	*1*
Tetrachloro-m-xylene (Surr)	*56*		*27 - 138*	*05/19/17 10:17*	*05/21/17 14:53*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**23.8**		0.1	0.1	%			05/20/17 07:34	1
Percent Solids	**76.2**		0.1	0.1	%			05/20/17 07:34	1

Client Sample ID: PS-FD-10
Date Collected: 05/18/17 00:00
Date Received: 05/19/17 09:10

Lab Sample ID: 180-66476-11
Matrix: Solid
Percent Solids: 83.5

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		20	10	ug/Kg	☼	05/19/17 10:17	05/21/17 15:13	1
PCB-1221	ND		20	10	ug/Kg	☼	05/19/17 10:17	05/21/17 15:13	1
PCB-1232	ND		20	7.7	ug/Kg	☼	05/19/17 10:17	05/21/17 15:13	1
PCB-1242	ND		20	16	ug/Kg	☼	05/19/17 10:17	05/21/17 15:13	1
PCB-1248	**590**		20	9.3	ug/Kg	☼	05/19/17 10:17	05/21/17 15:13	1
PCB-1254	**400**		20	8.6	ug/Kg	☼	05/19/17 10:17	05/21/17 15:13	1
PCB-1260	**86**		20	13	ug/Kg	☼	05/19/17 10:17	05/21/17 15:13	1
PCB-1262	ND		20	14	ug/Kg	☼	05/19/17 10:17	05/21/17 15:13	1
PCB-1268	ND		20	6.0	ug/Kg	☼	05/19/17 10:17	05/21/17 15:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*85*		*23 - 150*	*05/19/17 10:17*	*05/21/17 15:13*	*1*
DCB Decachlorobiphenyl (Surr)	*87*		*23 - 150*	*05/19/17 10:17*	*05/21/17 15:13*	*1*
Tetrachloro-m-xylene (Surr)	*81*		*27 - 138*	*05/19/17 10:17*	*05/21/17 15:13*	*1*
Tetrachloro-m-xylene (Surr)	*72*		*27 - 138*	*05/19/17 10:17*	*05/21/17 15:13*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**16.5**		0.1	0.1	%			05/20/17 04:24	1
Percent Solids	**83.5**		0.1	0.1	%			05/20/17 04:24	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 180-211699/1-C
Matrix: Solid
Analysis Batch: 211798

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 211699

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		17	8.8	ug/Kg		05/19/17 10:17	05/21/17 12:52	1
PCB-1221	ND		17	8.6	ug/Kg		05/19/17 10:17	05/21/17 12:52	1
PCB-1232	ND		17	6.6	ug/Kg		05/19/17 10:17	05/21/17 12:52	1
PCB-1242	ND		17	13	ug/Kg		05/19/17 10:17	05/21/17 12:52	1
PCB-1248	ND		17	8.0	ug/Kg		05/19/17 10:17	05/21/17 12:52	1
PCB-1254	ND		17	7.3	ug/Kg		05/19/17 10:17	05/21/17 12:52	1
PCB-1260	ND		17	11	ug/Kg		05/19/17 10:17	05/21/17 12:52	1
PCB-1262	ND		17	12	ug/Kg		05/19/17 10:17	05/21/17 12:52	1
PCB-1268	ND		17	5.1	ug/Kg		05/19/17 10:17	05/21/17 12:52	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*99*		*23 - 150*	*05/19/17 10:17*	*05/21/17 12:52*	*1*
DCB Decachlorobiphenyl (Surr)	*102*		*23 - 150*	*05/19/17 10:17*	*05/21/17 12:52*	*1*
Tetrachloro-m-xylene (Surr)	*101*		*27 - 138*	*05/19/17 10:17*	*05/21/17 12:52*	*1*
Tetrachloro-m-xylene (Surr)	*97*		*27 - 138*	*05/19/17 10:17*	*05/21/17 12:52*	*1*

Lab Sample ID: LCS 180-211699/2-C
Matrix: Solid
Analysis Batch: 211798

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 211699

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			1330	1140		ug/Kg		85	52 - 126		
PCB-1260			1330	1210		ug/Kg		91	50 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*90*		*23 - 150*
DCB Decachlorobiphenyl (Surr)	*91*		*23 - 150*
Tetrachloro-m-xylene (Surr)	*93*		*27 - 138*
Tetrachloro-m-xylene (Surr)	*88*		*27 - 138*

Lab Sample ID: LCSD 180-211699/3-C
Matrix: Solid
Analysis Batch: 211798

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 211699

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016			1330	1160		ug/Kg		87	52 - 126	2	20
PCB-1260			1330	1300		ug/Kg		98	50 - 130	7	21

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*96*		*23 - 150*
DCB Decachlorobiphenyl (Surr)	*97*		*23 - 150*
Tetrachloro-m-xylene (Surr)	*93*		*27 - 138*
Tetrachloro-m-xylene (Surr)	*89*		*27 - 138*

QC Association Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North

TestAmerica Job ID: 180-66476-1

GC Semi VOA

Prep Batch: 211699

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-66476-1	SSHS-B814-SS	Total/NA	Solid	3541	
180-66476-3	SSHS-B815-SS	Total/NA	Solid	3541	
180-66476-4	SSHS-B815-SUB-0.17-2	Total/NA	Solid	3541	
180-66476-5	SSHS-B816-SS	Total/NA	Solid	3541	
180-66476-7	SSHS-B817-SS	Total/NA	Solid	3541	
180-66476-9	SSHS-B818-SS	Total/NA	Solid	3541	
180-66476-11	PS-FD-10	Total/NA	Solid	3541	
MB 180-211699/1-C	Method Blank	Total/NA	Solid	3541	
LCS 180-211699/2-C	Lab Control Sample	Total/NA	Solid	3541	
LCSD 180-211699/3-C	Lab Control Sample Dup	Total/NA	Solid	3541	

Analysis Batch: 211798

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-66476-1	SSHS-B814-SS	Total/NA	Solid	8082A	211804
180-66476-3	SSHS-B815-SS	Total/NA	Solid	8082A	211804
180-66476-4	SSHS-B815-SUB-0.17-2	Total/NA	Solid	8082A	211804
180-66476-5	SSHS-B816-SS	Total/NA	Solid	8082A	211804
180-66476-7	SSHS-B817-SS	Total/NA	Solid	8082A	211804
180-66476-9	SSHS-B818-SS	Total/NA	Solid	8082A	211804
180-66476-11	PS-FD-10	Total/NA	Solid	8082A	211804
MB 180-211699/1-C	Method Blank	Total/NA	Solid	8082A	211804
LCS 180-211699/2-C	Lab Control Sample	Total/NA	Solid	8082A	211804
LCSD 180-211699/3-C	Lab Control Sample Dup	Total/NA	Solid	8082A	211804

Cleanup Batch: 211803

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-66476-1	SSHS-B814-SS	Total/NA	Solid	3665A	211699
180-66476-3	SSHS-B815-SS	Total/NA	Solid	3665A	211699
180-66476-4	SSHS-B815-SUB-0.17-2	Total/NA	Solid	3665A	211699
180-66476-5	SSHS-B816-SS	Total/NA	Solid	3665A	211699
180-66476-7	SSHS-B817-SS	Total/NA	Solid	3665A	211699
180-66476-9	SSHS-B818-SS	Total/NA	Solid	3665A	211699
180-66476-11	PS-FD-10	Total/NA	Solid	3665A	211699
MB 180-211699/1-C	Method Blank	Total/NA	Solid	3665A	211699
LCS 180-211699/2-C	Lab Control Sample	Total/NA	Solid	3665A	211699
LCSD 180-211699/3-C	Lab Control Sample Dup	Total/NA	Solid	3665A	211699

Cleanup Batch: 211804

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-66476-1	SSHS-B814-SS	Total/NA	Solid	3660B	211803
180-66476-3	SSHS-B815-SS	Total/NA	Solid	3660B	211803
180-66476-4	SSHS-B815-SUB-0.17-2	Total/NA	Solid	3660B	211803
180-66476-5	SSHS-B816-SS	Total/NA	Solid	3660B	211803
180-66476-7	SSHS-B817-SS	Total/NA	Solid	3660B	211803
180-66476-9	SSHS-B818-SS	Total/NA	Solid	3660B	211803
180-66476-11	PS-FD-10	Total/NA	Solid	3660B	211803
MB 180-211699/1-C	Method Blank	Total/NA	Solid	3660B	211803
LCS 180-211699/2-C	Lab Control Sample	Total/NA	Solid	3660B	211803
LCSD 180-211699/3-C	Lab Control Sample Dup	Total/NA	Solid	3660B	211803

QC Association Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North

TestAmerica Job ID: 180-66476-1

General Chemistry

Analysis Batch: 211722

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-66476-3	SSHS-B815-SS	Total/NA	Solid	2540G	
180-66476-4	SSHS-B815-SUB-0.17-2	Total/NA	Solid	2540G	
180-66476-11	PS-FD-10	Total/NA	Solid	2540G	

Analysis Batch: 211729

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-66476-5	SSHS-B816-SS	Total/NA	Solid	2540G	
180-66476-7	SSHS-B817-SS	Total/NA	Solid	2540G	
180-66476-9	SSHS-B818-SS	Total/NA	Solid	2540G	

Analysis Batch: 211756

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-66476-1	SSHS-B814-SS	Total/NA	Solid	2540G	

TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
phone 412.963.7058 fax 412.963.2468

180-66476 Chain of Custody

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

☐ DW ☐ NPDES ☐ RCRA ☑ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Aron Krasnopoler	Site Contact: Jay Thompson	Date: 5/18/17	COC No:
Geosyntec Consultants	Tel/Fax: 401-381-4333	Lab Contact: Dave Dunlap	Carrier: FedEx	1 of 2 COCs
10211 Wincopin Circle, 4th Floor	**Analysis Turnaround Time**			Sampler: JT
Columbia, MD 21044	☐ CALENDAR DAYS ☑ WORKING DAYS			**For Lab Use Only:**
410-381-4333 Phone	TAT if different from Below _____			Walk-in Client:
410-381-4499 FAX	☐ 2 weeks			Lab Sampling:
Project Name: Former Sperry Remington Site - North	☐ 1 week			
Site: Elmira	☐ 2 days			Job / SDG No.:
P O # MN0832B	☑ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	PCBs -8082A	Sample Specific Notes:
SS HS-B814-SS	5/18/17	0740	C	S	2	N	N	X	
SS HS-B814-SUB-0.17-2		0745	C	S	2	N	N	X	HOLD
SS HS-B815-SS		0755	C	S	2	N	N	X	
SS HS-B815-SUB-0.17-2		0800	C	S	2	N	N	X	
SS HS-B816-SS		0815	C	S	2	N	N	X	
SS HS-B816-SUB-0.17-2		0820	C	S	2	N	N	X	HOLD
SS HS-B817-SS		0805	C	S	2	N	N	X	
SS HS-B817-SUB-0.17-2		0810	C	S	2	N	N	X	HOLD
SS HS-B818-SS		0830	C	S	2	N	N	X	
SS HS B818-SUB-0.17-2		0835	C	S	2	N	Y	X	HOLD PCBs-MS/MSD
PS-FD-10	↓	X	C	S	2	N	N	X	

RUSH

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temp. (°C): Obs'd: _____ Corr'd: _____	Therm ID No.: _____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Jay Thompson	Geosyntec	5/18/17 1730		TAP	5/19/17 910
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Form No. CA-C-WI-002, Rev. 4.3, dated 12/05/2013

TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
phone 412.963.7058 fax 412.963.2468

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☑ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Aron Krasnopoler	Site Contact: Jay Thompson	Date: 5/16/17	COC No:
Geosyntec Consultants	Tel/Fax: 401-381-4333	Lab Contact: Dave Dunlap	Carrier: FedEx	2 of 3 COCs
10211 Wincopin Circle, 4th Floor	Analysis Turnaround Time			Sampler: JT
Columbia, MD 21044	☐ CALENDAR DAYS ☑ WORKING DAYS			For Lab Use Only:
410-381-4333 Phone	TAT if different from Below ☐ 2 weeks ☒ 1 week ☐ 2 days ☐ 1 day (JT 5/16/17)			Walk-in Client:
410-381-4499 FAX				Lab Sampling:
Project Name: Former Sperry Remington Site - North				Job / SDG No.:
Site: Elmira				
P O # MN0832B				

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	PCBs -8082A	PCBs - 8082 LL	Sample Specific Notes:
EB-1	5/16/17	1200	G	W	2	N	N	X	X	2-WK TAT

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____ | 1

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd: _____ Corr'd: _____ Therm ID No.: _____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Jay Thompson	Geosyntec	5/16/17 1730		TAP	5/19/17 910
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Form No. CA-C-WI-002, Rev. 4.3, dated 12/05/2013

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 180-66476-1

Login Number: 66476
List Number: 1
Creator: Dunlap, David A

List Source: TestAmerica Pittsburgh

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

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ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

TestAmerica Job ID: 180-66476-2
Client Project/Site: Former Sperry Remington Site - North

For:
Geosyntec Consultants, Inc.
10211 Wincopin Circle
4'th Floor
Columbia, Maryland 21044

Attn: Mr. Aron Krasnopoler

Authorized for release by:
5/24/2017 10:17:06 PM

David Dunlap, Senior Project Manager
(412)963-2432
david.dunlap@testamericainc.com

Links

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North

TestAmerica Job ID: 180-66476-2

Job ID: 180-66476-2

Laboratory: TestAmerica Pittsburgh

Narrative

Job Narrative
180-66476-2

Comments
This report contains the results of 'hold' samples taken off hold on 5/22/17.

Receipt
The samples were received on 5/19/2017 9:10 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 1.1° C and 1.9° C.

GC Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Definitions/Glossary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North

TestAmerica Job ID: 180-66476-2

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc. TestAmerica Job ID: 180-66476-2
Project/Site: Former Sperry Remington Site - North

Laboratory: TestAmerica Pittsburgh

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	11182	03-31-18

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
2540G		Solid	Percent Moisture
2540G		Solid	Percent Solids

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North

TestAmerica Job ID: 180-66476-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-66476-2	SSHS-B814-SUB-0.17-2	Solid	05/18/17 07:45	05/19/17 09:10
180-66476-6	SSHS-B816-SUB-0.17-2	Solid	05/18/17 08:20	05/19/17 09:10
180-66476-8	SSHS-B817-SUB-0.17-2	Solid	05/18/17 08:10	05/19/17 09:10
180-66476-10	SSHS-B818-SUB-0.17-2	Solid	05/18/17 08:35	05/19/17 09:10

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North

TestAmerica Job ID: 180-66476-2

Method	Method Description	Protocol	Laboratory
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL PIT
2540G	SM 2540G	SM22	TAL PIT

Protocol References:

SM22 = SM22

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North

TestAmerica Job ID: 180-66476-2

Client Sample ID: SSHS-B814-SUB-0.17-2
Lab Sample ID: 180-66476-2
Date Collected: 05/18/17 07:45
Matrix: Solid
Date Received: 05/19/17 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			211984	05/23/17 13:07	JJZ	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B814-SUB-0.17-2
Lab Sample ID: 180-66476-2
Date Collected: 05/18/17 07:45
Matrix: Solid
Date Received: 05/19/17 09:10
Percent Solids: 84.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	212001	05/23/17 12:00	CBY	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	212074	05/24/17 06:06	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	212075	05/24/17 06:08	JMO	TAL PIT
Total/NA	Analysis	8082A		1			212071	05/24/17 10:39	JMO	TAL PIT
	Instrument ID: CHGC16									

Client Sample ID: SSHS-B816-SUB-0.17-2
Lab Sample ID: 180-66476-6
Date Collected: 05/18/17 08:20
Matrix: Solid
Date Received: 05/19/17 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			211729	05/20/17 10:32	JJZ	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B816-SUB-0.17-2
Lab Sample ID: 180-66476-6
Date Collected: 05/18/17 08:20
Matrix: Solid
Date Received: 05/19/17 09:10
Percent Solids: 84.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	212002	05/23/17 12:30	CBY	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	212076	05/24/17 06:09	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	212077	05/24/17 06:10	JMO	TAL PIT
Total/NA	Analysis	8082A		1			212072	05/24/17 10:44	JMO	TAL PIT
	Instrument ID: CHGC8									

Client Sample ID: SSHS-B817-SUB-0.17-2
Lab Sample ID: 180-66476-8
Date Collected: 05/18/17 08:10
Matrix: Solid
Date Received: 05/19/17 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			211729	05/20/17 08:34	JJZ	TAL PIT
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North

TestAmerica Job ID: 180-66476-2

Client Sample ID: SSHS-B817-SUB-0.17-2

Lab Sample ID: 180-66476-8
Date Collected: 05/18/17 08:10
Matrix: Solid
Date Received: 05/19/17 09:10
Percent Solids: 85.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.1 g	20.0 mL	212002	05/23/17 12:30	CBY	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	212076	05/24/17 06:09	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	212077	05/24/17 06:10	JMO	TAL PIT
Total/NA	Analysis	8082A		1			212072	05/24/17 11:04	JMO	TAL PIT
	Instrument ID: CHGC8									

Client Sample ID: SSHS-B818-SUB-0.17-2

Lab Sample ID: 180-66476-10
Date Collected: 05/18/17 08:35
Matrix: Solid
Date Received: 05/19/17 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			211722	05/20/17 08:24	JJZ	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B818-SUB-0.17-2

Lab Sample ID: 180-66476-10
Date Collected: 05/18/17 08:35
Matrix: Solid
Date Received: 05/19/17 09:10
Percent Solids: 84.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	212001	05/23/17 12:00	CBY	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	212074	05/24/17 06:06	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	212075	05/24/17 06:08	JMO	TAL PIT
Total/NA	Analysis	8082A		1			212071	05/24/17 11:00	JMO	TAL PIT
	Instrument ID: CHGC16									

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Analyst References:

Lab: TAL PIT

Batch Type: Cleanup

JMO = John Oravec

Batch Type: Prep

CBY = Charles Yushinski

Batch Type: Analysis

JJZ = Joseph Zubrow

JMO = John Oravec

Client Sample ID: SSHS-B814-SUB-0.17-2

Lab Sample ID: 180-66476-2
Date Collected: 05/18/17 07:45
Matrix: Solid
Date Received: 05/19/17 09:10
Percent Solids: 84.3

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		20	10	ug/Kg	☼	05/23/17 12:00	05/24/17 10:39	1
PCB-1221	ND		20	10	ug/Kg	☼	05/23/17 12:00	05/24/17 10:39	1
PCB-1232	ND		20	7.8	ug/Kg	☼	05/23/17 12:00	05/24/17 10:39	1
PCB-1242	ND		20	16	ug/Kg	☼	05/23/17 12:00	05/24/17 10:39	1
PCB-1248	**730**		20	9.4	ug/Kg	☼	05/23/17 12:00	05/24/17 10:39	1
PCB-1254	**480**		20	8.7	ug/Kg	☼	05/23/17 12:00	05/24/17 10:39	1
PCB-1260	**62**		20	13	ug/Kg	☼	05/23/17 12:00	05/24/17 10:39	1
PCB-1262	ND		20	14	ug/Kg	☼	05/23/17 12:00	05/24/17 10:39	1
PCB-1268	ND		20	6.0	ug/Kg	☼	05/23/17 12:00	05/24/17 10:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*87*		*23 - 150*	*05/23/17 12:00*	*05/24/17 10:39*	*1*
DCB Decachlorobiphenyl (Surr)	*90*		*23 - 150*	*05/23/17 12:00*	*05/24/17 10:39*	*1*
Tetrachloro-m-xylene (Surr)	*85*		*27 - 138*	*05/23/17 12:00*	*05/24/17 10:39*	*1*
Tetrachloro-m-xylene (Surr)	*86*		*27 - 138*	*05/23/17 12:00*	*05/24/17 10:39*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**15.7**		0.1	0.1	%			05/23/17 13:07	1
Percent Solids	**84.3**		0.1	0.1	%			05/23/17 13:07	1

Client Sample ID: SSHS-B816-SUB-0.17-2

Lab Sample ID: 180-66476-6
Date Collected: 05/18/17 08:20
Matrix: Solid
Date Received: 05/19/17 09:10
Percent Solids: 84.5

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		20	10	ug/Kg	☼	05/23/17 12:30	05/24/17 10:44	1
PCB-1221	ND		20	10	ug/Kg	☼	05/23/17 12:30	05/24/17 10:44	1
PCB-1232	ND		20	7.8	ug/Kg	☼	05/23/17 12:30	05/24/17 10:44	1
PCB-1242	ND		20	16	ug/Kg	☼	05/23/17 12:30	05/24/17 10:44	1
PCB-1248	**390**		20	9.4	ug/Kg	☼	05/23/17 12:30	05/24/17 10:44	1
PCB-1254	**160**		20	8.7	ug/Kg	☼	05/23/17 12:30	05/24/17 10:44	1
PCB-1260	**55**		20	13	ug/Kg	☼	05/23/17 12:30	05/24/17 10:44	1
PCB-1262	ND		20	14	ug/Kg	☼	05/23/17 12:30	05/24/17 10:44	1
PCB-1268	ND		20	6.0	ug/Kg	☼	05/23/17 12:30	05/24/17 10:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*92*		*23 - 150*	*05/23/17 12:30*	*05/24/17 10:44*	*1*
DCB Decachlorobiphenyl (Surr)	*94*		*23 - 150*	*05/23/17 12:30*	*05/24/17 10:44*	*1*
Tetrachloro-m-xylene (Surr)	*88*		*27 - 138*	*05/23/17 12:30*	*05/24/17 10:44*	*1*
Tetrachloro-m-xylene (Surr)	*76*		*27 - 138*	*05/23/17 12:30*	*05/24/17 10:44*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**15.5**		0.1	0.1	%			05/20/17 10:32	1
Percent Solids	**84.5**		0.1	0.1	%			05/20/17 10:32	1

Client Sample ID: SSHS-B817-SUB-0.17-2

Lab Sample ID: 180-66476-8

Date Collected: 05/18/17 08:10
Matrix: Solid
Date Received: 05/19/17 09:10
Percent Solids: 85.7

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		19	10	ug/Kg	☼	05/23/17 12:30	05/24/17 11:04	1
PCB-1221	ND		19	10	ug/Kg	☼	05/23/17 12:30	05/24/17 11:04	1
PCB-1232	ND		19	7.6	ug/Kg	☼	05/23/17 12:30	05/24/17 11:04	1
PCB-1242	ND		19	15	ug/Kg	☼	05/23/17 12:30	05/24/17 11:04	1
PCB-1248	**180**		19	9.2	ug/Kg	☼	05/23/17 12:30	05/24/17 11:04	1
PCB-1254	**88**		19	8.5	ug/Kg	☼	05/23/17 12:30	05/24/17 11:04	1
PCB-1260	**54**		19	13	ug/Kg	☼	05/23/17 12:30	05/24/17 11:04	1
PCB-1262	ND		19	14	ug/Kg	☼	05/23/17 12:30	05/24/17 11:04	1
PCB-1268	ND		19	5.9	ug/Kg	☼	05/23/17 12:30	05/24/17 11:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*91*		*23 - 150*	*05/23/17 12:30*	*05/24/17 11:04*	*1*
DCB Decachlorobiphenyl (Surr)	*93*		*23 - 150*	*05/23/17 12:30*	*05/24/17 11:04*	*1*
Tetrachloro-m-xylene (Surr)	*87*		*27 - 138*	*05/23/17 12:30*	*05/24/17 11:04*	*1*
Tetrachloro-m-xylene (Surr)	*77*		*27 - 138*	*05/23/17 12:30*	*05/24/17 11:04*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**14.3**		0.1	0.1	%			05/20/17 08:34	1
Percent Solids	**85.7**		0.1	0.1	%			05/20/17 08:34	1

Client Sample ID: SSHS-B818-SUB-0.17-2

Lab Sample ID: 180-66476-10

Date Collected: 05/18/17 08:35
Matrix: Solid
Date Received: 05/19/17 09:10
Percent Solids: 84.5

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		20	10	ug/Kg	☼	05/23/17 12:00	05/24/17 11:00	1
PCB-1221	ND		20	10	ug/Kg	☼	05/23/17 12:00	05/24/17 11:00	1
PCB-1232	ND		20	7.8	ug/Kg	☼	05/23/17 12:00	05/24/17 11:00	1
PCB-1242	ND		20	16	ug/Kg	☼	05/23/17 12:00	05/24/17 11:00	1
PCB-1248	**170**		20	9.4	ug/Kg	☼	05/23/17 12:00	05/24/17 11:00	1
PCB-1254	**120**		20	8.6	ug/Kg	☼	05/23/17 12:00	05/24/17 11:00	1
PCB-1260	ND		20	13	ug/Kg	☼	05/23/17 12:00	05/24/17 11:00	1
PCB-1262	ND		20	14	ug/Kg	☼	05/23/17 12:00	05/24/17 11:00	1
PCB-1268	ND		20	6.0	ug/Kg	☼	05/23/17 12:00	05/24/17 11:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*83*		*23 - 150*	*05/23/17 12:00*	*05/24/17 11:00*	*1*
DCB Decachlorobiphenyl (Surr)	*91*		*23 - 150*	*05/23/17 12:00*	*05/24/17 11:00*	*1*
Tetrachloro-m-xylene (Surr)	*77*		*27 - 138*	*05/23/17 12:00*	*05/24/17 11:00*	*1*
Tetrachloro-m-xylene (Surr)	*79*		*27 - 138*	*05/23/17 12:00*	*05/24/17 11:00*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**15.5**		0.1	0.1	%			05/20/17 08:24	1
Percent Solids	**84.5**		0.1	0.1	%			05/20/17 08:24	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 180-212001/1-C
Matrix: Solid
Analysis Batch: 212070

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 212001

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		17	8.8	ug/Kg		05/23/17 12:00	05/24/17 07:35	1
PCB-1221	ND		17	8.6	ug/Kg		05/23/17 12:00	05/24/17 07:35	1
PCB-1232	ND		17	6.6	ug/Kg		05/23/17 12:00	05/24/17 07:35	1
PCB-1242	ND		17	13	ug/Kg		05/23/17 12:00	05/24/17 07:35	1
PCB-1248	ND		17	8.0	ug/Kg		05/23/17 12:00	05/24/17 07:35	1
PCB-1254	ND		17	7.3	ug/Kg		05/23/17 12:00	05/24/17 07:35	1
PCB-1260	ND		17	11	ug/Kg		05/23/17 12:00	05/24/17 07:35	1
PCB-1262	ND		17	12	ug/Kg		05/23/17 12:00	05/24/17 07:35	1
PCB-1268	ND		17	5.1	ug/Kg		05/23/17 12:00	05/24/17 07:35	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*101*		*23 - 150*	*05/23/17 12:00*	*05/24/17 07:35*	*1*
DCB Decachlorobiphenyl (Surr)	*97*		*23 - 150*	*05/23/17 12:00*	*05/24/17 07:35*	*1*
Tetrachloro-m-xylene (Surr)	*106*		*27 - 138*	*05/23/17 12:00*	*05/24/17 07:35*	*1*
Tetrachloro-m-xylene (Surr)	*100*		*27 - 138*	*05/23/17 12:00*	*05/24/17 07:35*	*1*

Lab Sample ID: MB 180-212001/1-C
Matrix: Solid
Analysis Batch: 212071

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 212001

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		17	8.8	ug/Kg		05/23/17 12:00	05/24/17 07:52	1
PCB-1221	ND		17	8.6	ug/Kg		05/23/17 12:00	05/24/17 07:52	1
PCB-1232	ND		17	6.6	ug/Kg		05/23/17 12:00	05/24/17 07:52	1
PCB-1242	ND		17	13	ug/Kg		05/23/17 12:00	05/24/17 07:52	1
PCB-1248	ND		17	8.0	ug/Kg		05/23/17 12:00	05/24/17 07:52	1
PCB-1254	ND		17	7.3	ug/Kg		05/23/17 12:00	05/24/17 07:52	1
PCB-1260	ND		17	11	ug/Kg		05/23/17 12:00	05/24/17 07:52	1
PCB-1262	ND		17	12	ug/Kg		05/23/17 12:00	05/24/17 07:52	1
PCB-1268	ND		17	5.1	ug/Kg		05/23/17 12:00	05/24/17 07:52	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*97*		*23 - 150*	*05/23/17 12:00*	*05/24/17 07:52*	*1*
DCB Decachlorobiphenyl (Surr)	*108*		*23 - 150*	*05/23/17 12:00*	*05/24/17 07:52*	*1*
Tetrachloro-m-xylene (Surr)	*93*		*27 - 138*	*05/23/17 12:00*	*05/24/17 07:52*	*1*
Tetrachloro-m-xylene (Surr)	*99*		*27 - 138*	*05/23/17 12:00*	*05/24/17 07:52*	*1*

Lab Sample ID: LCS 180-212001/2-C
Matrix: Solid
Analysis Batch: 212070

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 212001

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			1330	1380		ug/Kg		104	52 - 126		
PCB-1260			1330	1330		ug/Kg		99	50 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*95*		*23 - 150*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCS 180-212001/2-C
Matrix: Solid
Analysis Batch: 212070

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 212001

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*96*		*23 - 150*
Tetrachloro-m-xylene (Surr)	*104*		*27 - 138*
Tetrachloro-m-xylene (Surr)	*98*		*27 - 138*

Lab Sample ID: 180-66476-10 MS
Matrix: Solid
Analysis Batch: 212071

Client Sample ID: SSHS-B818-SUB-0.17-2
Prep Type: Total/NA
Prep Batch: 212001

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	ND		1580	1450		ug/Kg	☼	92	52 - 126
PCB-1260	ND		1580	1380		ug/Kg	☼	87	50 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*82*		*23 - 150*
DCB Decachlorobiphenyl (Surr)	*86*		*23 - 150*
Tetrachloro-m-xylene (Surr)	*85*		*27 - 138*
Tetrachloro-m-xylene (Surr)	*86*		*27 - 138*

Lab Sample ID: 180-66476-10 MSD
Matrix: Solid
Analysis Batch: 212071

Client Sample ID: SSHS-B818-SUB-0.17-2
Prep Type: Total/NA
Prep Batch: 212001

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	ND		1580	1500		ug/Kg	☼	95	52 - 126	3	20
PCB-1260	ND		1580	1440		ug/Kg	☼	91	50 - 130	4	21

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*86*		*23 - 150*
DCB Decachlorobiphenyl (Surr)	*90*		*23 - 150*
Tetrachloro-m-xylene (Surr)	*84*		*27 - 138*
Tetrachloro-m-xylene (Surr)	*88*		*27 - 138*

Lab Sample ID: MB 180-212002/1-C
Matrix: Solid
Analysis Batch: 212072

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 212002

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		17	8.8	ug/Kg		05/23/17 12:30	05/24/17 10:24	1
PCB-1221	ND		17	8.6	ug/Kg		05/23/17 12:30	05/24/17 10:24	1
PCB-1232	ND		17	6.6	ug/Kg		05/23/17 12:30	05/24/17 10:24	1
PCB-1242	ND		17	13	ug/Kg		05/23/17 12:30	05/24/17 10:24	1
PCB-1248	ND		17	8.0	ug/Kg		05/23/17 12:30	05/24/17 10:24	1
PCB-1254	ND		17	7.3	ug/Kg		05/23/17 12:30	05/24/17 10:24	1
PCB-1260	ND		17	11	ug/Kg		05/23/17 12:30	05/24/17 10:24	1
PCB-1262	ND		17	12	ug/Kg		05/23/17 12:30	05/24/17 10:24	1
PCB-1268	ND		17	5.1	ug/Kg		05/23/17 12:30	05/24/17 10:24	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: MB 180-212002/1-C
Matrix: Solid
Analysis Batch: 212072

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 212002

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*103*		*23 - 150*	*05/23/17 12:30*	*05/24/17 10:24*	*1*
DCB Decachlorobiphenyl (Surr)	*101*		*23 - 150*	*05/23/17 12:30*	*05/24/17 10:24*	*1*
Tetrachloro-m-xylene (Surr)	*100*		*27 - 138*	*05/23/17 12:30*	*05/24/17 10:24*	*1*
Tetrachloro-m-xylene (Surr)	*96*		*27 - 138*	*05/23/17 12:30*	*05/24/17 10:24*	*1*

Lab Sample ID: LCS 180-212002/2-C
Matrix: Solid
Analysis Batch: 212072

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 212002

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	1330	1120		ug/Kg		84	52 - 126
PCB-1260	1330	1410		ug/Kg		106	50 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*86*		*23 - 150*
DCB Decachlorobiphenyl (Surr)	*88*		*23 - 150*
Tetrachloro-m-xylene (Surr)	*88*		*27 - 138*
Tetrachloro-m-xylene (Surr)	*83*		*27 - 138*

Method: 2540G - SM 2540G

Lab Sample ID: 180-66476-2 DU
Matrix: Solid
Analysis Batch: 211984

Client Sample ID: SSHS-B814-SUB-0.17-2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	15.7		14.6		%		7	20
Percent Solids	84.3		85.4		%		1	20

QC Association Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North

TestAmerica Job ID: 180-66476-2

GC Semi VOA

Prep Batch: 212001

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-66476-2	SSHS-B814-SUB-0.17-2	Total/NA	Solid	3541	
180-66476-10	SSHS-B818-SUB-0.17-2	Total/NA	Solid	3541	
MB 180-212001/1-C	Method Blank	Total/NA	Solid	3541	
LCS 180-212001/2-C	Lab Control Sample	Total/NA	Solid	3541	
180-66476-10 MS	SSHS-B818-SUB-0.17-2	Total/NA	Solid	3541	
180-66476-10 MSD	SSHS-B818-SUB-0.17-2	Total/NA	Solid	3541	

Prep Batch: 212002

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-66476-6	SSHS-B816-SUB-0.17-2	Total/NA	Solid	3541	
180-66476-8	SSHS-B817-SUB-0.17-2	Total/NA	Solid	3541	
MB 180-212002/1-C	Method Blank	Total/NA	Solid	3541	
LCS 180-212002/2-C	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 212070

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 180-212001/1-C	Method Blank	Total/NA	Solid	8082A	212075
LCS 180-212001/2-C	Lab Control Sample	Total/NA	Solid	8082A	212075

Analysis Batch: 212071

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-66476-2	SSHS-B814-SUB-0.17-2	Total/NA	Solid	8082A	212075
180-66476-10	SSHS-B818-SUB-0.17-2	Total/NA	Solid	8082A	212075
MB 180-212001/1-C	Method Blank	Total/NA	Solid	8082A	212075
180-66476-10 MS	SSHS-B818-SUB-0.17-2	Total/NA	Solid	8082A	212075
180-66476-10 MSD	SSHS-B818-SUB-0.17-2	Total/NA	Solid	8082A	212075

Analysis Batch: 212072

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-66476-6	SSHS-B816-SUB-0.17-2	Total/NA	Solid	8082A	212077
180-66476-8	SSHS-B817-SUB-0.17-2	Total/NA	Solid	8082A	212077
MB 180-212002/1-C	Method Blank	Total/NA	Solid	8082A	212077
LCS 180-212002/2-C	Lab Control Sample	Total/NA	Solid	8082A	212077

Cleanup Batch: 212074

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-66476-2	SSHS-B814-SUB-0.17-2	Total/NA	Solid	3665A	212001
180-66476-10	SSHS-B818-SUB-0.17-2	Total/NA	Solid	3665A	212001
MB 180-212001/1-C	Method Blank	Total/NA	Solid	3665A	212001
LCS 180-212001/2-C	Lab Control Sample	Total/NA	Solid	3665A	212001
180-66476-10 MS	SSHS-B818-SUB-0.17-2	Total/NA	Solid	3665A	212001
180-66476-10 MSD	SSHS-B818-SUB-0.17-2	Total/NA	Solid	3665A	212001

Cleanup Batch: 212075

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-66476-2	SSHS-B814-SUB-0.17-2	Total/NA	Solid	3660B	212074
180-66476-10	SSHS-B818-SUB-0.17-2	Total/NA	Solid	3660B	212074
MB 180-212001/1-C	Method Blank	Total/NA	Solid	3660B	212074
LCS 180-212001/2-C	Lab Control Sample	Total/NA	Solid	3660B	212074
180-66476-10 MS	SSHS-B818-SUB-0.17-2	Total/NA	Solid	3660B	212074
180-66476-10 MSD	SSHS-B818-SUB-0.17-2	Total/NA	Solid	3660B	212074

Cleanup Batch: 212076

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-66476-6	SSHS-B816-SUB-0.17-2	Total/NA	Solid	3665A	212002
180-66476-8	SSHS-B817-SUB-0.17-2	Total/NA	Solid	3665A	212002
MB 180-212002/1-C	Method Blank	Total/NA	Solid	3665A	212002
LCS 180-212002/2-C	Lab Control Sample	Total/NA	Solid	3665A	212002

Cleanup Batch: 212077

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-66476-6	SSHS-B816-SUB-0.17-2	Total/NA	Solid	3660B	212076
180-66476-8	SSHS-B817-SUB-0.17-2	Total/NA	Solid	3660B	212076
MB 180-212002/1-C	Method Blank	Total/NA	Solid	3660B	212076
LCS 180-212002/2-C	Lab Control Sample	Total/NA	Solid	3660B	212076

General Chemistry

Analysis Batch: 211722

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-66476-10	SSHS-B818-SUB-0.17-2	Total/NA	Solid	2540G	

Analysis Batch: 211729

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-66476-6	SSHS-B816-SUB-0.17-2	Total/NA	Solid	2540G	
180-66476-8	SSHS-B817-SUB-0.17-2	Total/NA	Solid	2540G	

Analysis Batch: 211984

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-66476-2	SSHS-B814-SUB-0.17-2	Total/NA	Solid	2540G	
180-66476-2 DU	SSHS-B814-SUB-0.17-2	Total/NA	Solid	2540G	

TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
phone 412.963.7058 fax 412.963.2468

180-66476 Chain of Custody

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

☐DW ☐NPDES ☐RCRA ☑Other:

TestAmerica Laboratories, Inc.

Client Contact	**Project Manager:** Aron Krasnopoler	**Site Contact:** Jay Thompson	**Date:** 5/18/17	COC No:
Geosyntec Consultants	**Tel/Fax:** 401-381-4333	**Lab Contact:** Dave Dunlap	**Carrier:** FedEx	1 of 2 COCs
10211 Wincopin Circle, 4th Floor	**Analysis Turnaround Time**			Sampler: JT
Columbia, MD 21044	☐CALENDAR DAYS ☑WORKING DAYS			**For Lab Use Only:**
410-381-4333 Phone	TAT if different from Below ____			Walk-in Client:
410-381-4499 FAX	☐ 2 weeks			Lab Sampling:
Project Name: Former Sperry Remington Site - North	☐ 1 week			
Site: Elmira	☐ 2 days			Job / SDG No.:
P O # MN0832B	☑ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	PCBs -8082A	Sample Specific Notes:
SS HS-B814-SS	5/18/17	0740	C	S	2	N	N	X	
SS HS-B814-SUB-0.17-2		0745	C	S	2	N	N	X	HOLD
SS HS-B815-SS		0755	C	S	2	N	N	X	
SS HS-B815-SUB-0.17-2		0800	C	S	2	N	N	X	
SS HS-B816-SS		0815	C	S	2	N	N	X	
SS HS-B816-SUB-0.17-2		0820	C	S	2	N	N	X	HOLD
SS HS-B817-SS		0805	C	S	2	N	N	X	
SS HS-B817-SUB-0.17-2		0810	C	S	2	N	N	X	HOLD
SS HS-B818-SS		0830	C	S	2	N	N	X	
SS HS B818-SUB-0.17-2		0835	C	S	2	N	Y	X	HOLD PCBs-MS/MSD 1-6
PS-FD-10	↓	X	C	S	2	N	N	X	

RUSH

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____

1

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑Non-Hazard ☐Flammable ☐Skin Irritant ☐Poison B ☐Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐Return to Client ☑Disposal by Lab ☐Archive for ____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temp. (°C): Obs'd:	Corr'd:	Therm ID No.:

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Jay Thompson	Geosyntec	5/18/17 1730		TAP	5/19/17 910
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Form No. CA-C-WI-002, Rev. 4.3, dated 12/05/2013

TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
phone 412.963.7058 fax 412.963.2468

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☑ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Aron Krasnopoler	Site Contact: Jay Thompson	Date: 5/16/17	COC No:
Geosyntec Consultants	Tel/Fax: 401-381-4333	Lab Contact: Dave Dunlap	Carrier: FedEx	2 of 3 COCs
10211 Wincopin Circle, 4th Floor	Analysis Turnaround Time			Sampler: JT
Columbia, MD 21044	☐ CALENDAR DAYS ☑ WORKING DAYS			For Lab Use Only:
410-381-4333 Phone	TAT if different from Below ____			Walk-in Client:
410-381-4499 FAX	☐ 2 weeks			Lab Sampling:
Project Name: Former Sperry Remington Site - North	☒ 1 week JT 5/16/17			Job / SDG No.:
Site: Elmira	☐ 2 days			
P O # MN0832B	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	PCBs -8082A	PCBs - 8082 LL	Sample Specific Notes:
EB-1	5/16/17	1200	G	W	2	N	N	X	X	2-WK TAT

5/16/17 JT

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____ 1

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd:	Corr'd:	Therm ID No.:
Relinquished by: Jay Thompson	Company: Geosyntec	Date/Time: 5/18/17 1730	Received by:	Company: TAP	Date/Time: 5/19/17 910
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Form No. CA-C-WI-002, Rev. 4.3, dated 12/05/2013

8/24/2017

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 180-66476-2

Login Number: 66476
List Number: 1
Creator: Dunlap, David A

List Source: TestAmerica Pittsburgh

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

TestAmerica Job ID: 180-66618-1
Client Project/Site: Former Sperry Remington Site - North

For:
Geosyntec Consultants, Inc.
10211 Wincopin Circle
4'th Floor
Columbia, Maryland 21044

Attn: Mr. Aron Krasnopoler

Authorized for release by:
5/26/2017 4:56:13 PM

David Dunlap, Senior Project Manager
(412)963-2432
david.dunlap@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Job ID: 180-66618-1

Laboratory: TestAmerica Pittsburgh

Narrative

Job Narrative
180-66618-1

Receipt
The samples were received on 5/24/2017 9:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 5 coolers at receipt time were 1.4º C, 2.1º C, 2.8º C, 4.0º C and 4.6º C.

GC Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc. TestAmerica Job ID: 180-66618-1
Project/Site: Former Sperry Remington Site - North

Laboratory: TestAmerica Pittsburgh

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	11182	03-31-18

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
2540G		Solid	Percent Moisture
2540G		Solid	Percent Solids

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North

TestAmerica Job ID: 180-66618-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-66618-1	SSHS-B750-SUB-0-2	Solid	05/22/17 11:45	05/24/17 09:15
180-66618-3	SSHS-B747-SUB-0-2	Solid	05/22/17 11:55	05/24/17 09:15
180-66618-5	SSHS-B748-SUB-0-2	Solid	05/22/17 12:05	05/24/17 09:15
180-66618-7	SSHS-B749-SUB-0-2	Solid	05/22/17 12:10	05/24/17 09:15
180-66618-12	PS-FD-11	Solid	05/22/17 00:00	05/24/17 09:15
180-66618-22	SSHS-B752-SUB-0-2	Solid	05/22/17 13:30	05/24/17 09:15
180-66618-24	PS-FD-12	Solid	05/22/17 00:00	05/24/17 09:15
180-66618-31	SSHS-B746-SUB-0-2	Solid	05/22/17 13:55	05/24/17 09:15
180-66618-33	SSHS-B745-SUB-0-2	Solid	05/22/17 14:05	05/24/17 09:15
180-66618-36	PS-FD-13	Solid	05/22/17 00:00	05/24/17 09:15
180-66618-38	SSHS-B761-SUB-2-4	Solid	05/22/17 15:05	05/24/17 09:15
180-66618-39	SSHS-B756-SUB-2-4	Solid	05/22/17 15:10	05/24/17 09:15
180-66618-40	SSHS-B757-SUB-2-4	Solid	05/22/17 15:15	05/24/17 09:15
180-66618-41	SSHS-B758-SUB-0-2	Solid	05/22/17 15:20	05/24/17 09:15
180-66618-53	SSHS-B751-SUB-0-2	Solid	05/22/17 16:10	05/24/17 09:15
180-66618-55	SSHS-B759-SUB-0-2	Solid	05/22/17 16:15	05/24/17 09:15
180-66618-57	PS-FD-14	Solid	05/22/17 00:00	05/24/17 09:15

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North

TestAmerica Job ID: 180-66618-1

Method	Method Description	Protocol	Laboratory
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL PIT
2540G	SM 2540G	SM22	TAL PIT

Protocol References:

SM22 = SM22

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North

TestAmerica Job ID: 180-66618-1

Client Sample ID: SSHS-B750-SUB-0-2
Lab Sample ID: 180-66618-1
Date Collected: 05/22/17 11:45
Matrix: Solid
Date Received: 05/24/17 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			212157	05/24/17 14:18	JJZ	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B750-SUB-0-2
Lab Sample ID: 180-66618-1
Date Collected: 05/22/17 11:45
Matrix: Solid
Date Received: 05/24/17 09:15
Percent Solids: 92.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.2 g	20.0 mL	212216	05/25/17 03:45	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	212267	05/25/17 10:33	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	212268	05/25/17 10:34	JMO	TAL PIT
Total/NA	Analysis	8082A		1			212238	05/25/17 14:37	JMO	TAL PIT
	Instrument ID: CHGC16									

Client Sample ID: SSHS-B747-SUB-0-2
Lab Sample ID: 180-66618-3
Date Collected: 05/22/17 11:55
Matrix: Solid
Date Received: 05/24/17 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			212157	05/24/17 14:18	JJZ	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B747-SUB-0-2
Lab Sample ID: 180-66618-3
Date Collected: 05/22/17 11:55
Matrix: Solid
Date Received: 05/24/17 09:15
Percent Solids: 93.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.2 g	20.0 mL	212216	05/25/17 03:45	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	212267	05/25/17 10:33	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	212268	05/25/17 10:34	JMO	TAL PIT
Total/NA	Analysis	8082A		1			212238	05/25/17 14:58	JMO	TAL PIT
	Instrument ID: CHGC16									

Client Sample ID: SSHS-B748-SUB-0-2
Lab Sample ID: 180-66618-5
Date Collected: 05/22/17 12:05
Matrix: Solid
Date Received: 05/24/17 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			212157	05/24/17 14:18	JJZ	TAL PIT
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North

TestAmerica Job ID: 180-66618-1

Client Sample ID: SSHS-B748-SUB-0-2
Lab Sample ID: 180-66618-5
Date Collected: 05/22/17 12:05
Matrix: Solid
Date Received: 05/24/17 09:15
Percent Solids: 92.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.4 g	20.0 mL	212216	05/25/17 03:45	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	212267	05/25/17 10:33	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	212268	05/25/17 10:34	JMO	TAL PIT
Total/NA	Analysis	8082A		1			212238	05/25/17 15:19	JMO	TAL PIT
	Instrument ID: CHGC16									

Client Sample ID: SSHS-B749-SUB-0-2
Lab Sample ID: 180-66618-7
Date Collected: 05/22/17 12:10
Matrix: Solid
Date Received: 05/24/17 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			212157	05/24/17 14:18	JJZ	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B749-SUB-0-2
Lab Sample ID: 180-66618-7
Date Collected: 05/22/17 12:10
Matrix: Solid
Date Received: 05/24/17 09:15
Percent Solids: 92.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	212216	05/25/17 03:45	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	212267	05/25/17 10:33	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	212268	05/25/17 10:34	JMO	TAL PIT
Total/NA	Analysis	8082A		1			212238	05/25/17 15:40	JMO	TAL PIT
	Instrument ID: CHGC16									

Client Sample ID: PS-FD-11
Lab Sample ID: 180-66618-12
Date Collected: 05/22/17 00:00
Matrix: Solid
Date Received: 05/24/17 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			212157	05/24/17 14:18	JJZ	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: PS-FD-11
Lab Sample ID: 180-66618-12
Date Collected: 05/22/17 00:00
Matrix: Solid
Date Received: 05/24/17 09:15
Percent Solids: 94.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.4 g	20.0 mL	212216	05/25/17 03:45	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	212267	05/25/17 10:33	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	212268	05/25/17 10:34	JMO	TAL PIT
Total/NA	Analysis	8082A		1			212238	05/25/17 16:45	JMO	TAL PIT
	Instrument ID: CHGC16									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North

TestAmerica Job ID: 180-66618-1

Client Sample ID: SSHS-B752-SUB-0-2
Date Collected: 05/22/17 13:30
Date Received: 05/24/17 09:15

Lab Sample ID: 180-66618-22
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			212157	05/24/17 14:18	JJZ	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B752-SUB-0-2
Date Collected: 05/22/17 13:30
Date Received: 05/24/17 09:15

Lab Sample ID: 180-66618-22
Matrix: Solid
Percent Solids: 94.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.3 g	20.0 mL	212216	05/25/17 03:45	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	212267	05/25/17 10:33	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	212268	05/25/17 10:34	JMO	TAL PIT
Total/NA	Analysis	8082A		1			212238	05/25/17 17:06	JMO	TAL PIT
	Instrument ID: CHGC16									

Client Sample ID: PS-FD-12
Date Collected: 05/22/17 00:00
Date Received: 05/24/17 09:15

Lab Sample ID: 180-66618-24
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			212157	05/24/17 14:18	JJZ	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: PS-FD-12
Date Collected: 05/22/17 00:00
Date Received: 05/24/17 09:15

Lab Sample ID: 180-66618-24
Matrix: Solid
Percent Solids: 93.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.2 g	20.0 mL	212216	05/25/17 03:45	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	212267	05/25/17 10:33	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	212268	05/25/17 10:34	JMO	TAL PIT
Total/NA	Analysis	8082A		1			212238	05/25/17 17:26	JMO	TAL PIT
	Instrument ID: CHGC16									

Client Sample ID: SSHS-B746-SUB-0-2
Date Collected: 05/22/17 13:55
Date Received: 05/24/17 09:15

Lab Sample ID: 180-66618-31
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			212157	05/24/17 14:18	JJZ	TAL PIT
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North

TestAmerica Job ID: 180-66618-1

Client Sample ID: SSHS-B746-SUB-0-2

Lab Sample ID: 180-66618-31
Date Collected: 05/22/17 13:55
Matrix: Solid
Date Received: 05/24/17 09:15
Percent Solids: 94.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.5 g	20.0 mL	212216	05/25/17 03:45	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	212267	05/25/17 10:33	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	212268	05/25/17 10:34	JMO	TAL PIT
Total/NA	Analysis	8082A		1			212238	05/25/17 17:48	JMO	TAL PIT

Instrument ID: CHGC16

Client Sample ID: SSHS-B745-SUB-0-2

Lab Sample ID: 180-66618-33
Date Collected: 05/22/17 14:05
Matrix: Solid
Date Received: 05/24/17 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			212157	05/24/17 14:18	JJZ	TAL PIT

Instrument ID: NOEQUIP

Client Sample ID: SSHS-B745-SUB-0-2

Lab Sample ID: 180-66618-33
Date Collected: 05/22/17 14:05
Matrix: Solid
Date Received: 05/24/17 09:15
Percent Solids: 88.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.1 g	20.0 mL	212216	05/25/17 03:45	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	212267	05/25/17 10:33	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	212268	05/25/17 10:34	JMO	TAL PIT
Total/NA	Analysis	8082A		1			212238	05/25/17 18:52	JMO	TAL PIT

Instrument ID: CHGC16

Client Sample ID: PS-FD-13

Lab Sample ID: 180-66618-36
Date Collected: 05/22/17 00:00
Matrix: Solid
Date Received: 05/24/17 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			212157	05/24/17 14:18	JJZ	TAL PIT

Instrument ID: NOEQUIP

Client Sample ID: PS-FD-13

Lab Sample ID: 180-66618-36
Date Collected: 05/22/17 00:00
Matrix: Solid
Date Received: 05/24/17 09:15
Percent Solids: 91.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	212216	05/25/17 03:45	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	212267	05/25/17 10:33	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	212268	05/25/17 10:34	JMO	TAL PIT
Total/NA	Analysis	8082A		1			212238	05/25/17 19:13	JMO	TAL PIT

Instrument ID: CHGC16

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North

TestAmerica Job ID: 180-66618-1

Client Sample ID: SSHS-B761-SUB-2-4
Lab Sample ID: 180-66618-38
Date Collected: 05/22/17 15:05
Matrix: Solid
Date Received: 05/24/17 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			212157	05/24/17 14:18	JJZ	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B761-SUB-2-4
Lab Sample ID: 180-66618-38
Date Collected: 05/22/17 15:05
Matrix: Solid
Date Received: 05/24/17 09:15
Percent Solids: 89.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.3 g	20.0 mL	212216	05/25/17 03:45	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	212267	05/25/17 10:33	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	212268	05/25/17 10:34	JMO	TAL PIT
Total/NA	Analysis	8082A		1			212238	05/25/17 19:34	JMO	TAL PIT
	Instrument ID: CHGC16									

Client Sample ID: SSHS-B756-SUB-2-4
Lab Sample ID: 180-66618-39
Date Collected: 05/22/17 15:10
Matrix: Solid
Date Received: 05/24/17 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			212157	05/24/17 14:18	JJZ	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B756-SUB-2-4
Lab Sample ID: 180-66618-39
Date Collected: 05/22/17 15:10
Matrix: Solid
Date Received: 05/24/17 09:15
Percent Solids: 91.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.2 g	20.0 mL	212216	05/25/17 03:45	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	212267	05/25/17 10:33	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	212268	05/25/17 10:34	JMO	TAL PIT
Total/NA	Analysis	8082A		1			212238	05/25/17 19:54	JMO	TAL PIT
	Instrument ID: CHGC16									

Client Sample ID: SSHS-B757-SUB-2-4
Lab Sample ID: 180-66618-40
Date Collected: 05/22/17 15:15
Matrix: Solid
Date Received: 05/24/17 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			212157	05/24/17 14:18	JJZ	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B757-SUB-2-4

Lab Sample ID: 180-66618-40
Date Collected: 05/22/17 15:15
Matrix: Solid
Date Received: 05/24/17 09:15
Percent Solids: 91.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.4 g	20.0 mL	212216	05/25/17 03:45	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	212267	05/25/17 10:33	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	212268	05/25/17 10:34	JMO	TAL PIT
Total/NA	Analysis	8082A		1			212238	05/25/17 20:15	JMO	TAL PIT
	Instrument ID: CHGC16									

Client Sample ID: SSHS-B758-SUB-0-2

Lab Sample ID: 180-66618-41
Date Collected: 05/22/17 15:20
Matrix: Solid
Date Received: 05/24/17 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			212157	05/24/17 14:18	JJZ	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B758-SUB-0-2

Lab Sample ID: 180-66618-41
Date Collected: 05/22/17 15:20
Matrix: Solid
Date Received: 05/24/17 09:15
Percent Solids: 95.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.1 g	20.0 mL	212216	05/25/17 03:45	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	212267	05/25/17 10:33	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	212268	05/25/17 10:34	JMO	TAL PIT
Total/NA	Analysis	8082A		1			212238	05/25/17 20:37	JMO	TAL PIT
	Instrument ID: CHGC16									

Client Sample ID: SSHS-B751-SUB-0-2

Lab Sample ID: 180-66618-53
Date Collected: 05/22/17 16:10
Matrix: Solid
Date Received: 05/24/17 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			212157	05/24/17 14:18	JJZ	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B751-SUB-0-2

Lab Sample ID: 180-66618-53
Date Collected: 05/22/17 16:10
Matrix: Solid
Date Received: 05/24/17 09:15
Percent Solids: 90.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.3 g	20.0 mL	212216	05/25/17 06:14	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	212267	05/25/17 10:33	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	212268	05/25/17 10:34	JMO	TAL PIT
Total/NA	Analysis	8082A		1			212238	05/25/17 21:42	JMO	TAL PIT
	Instrument ID: CHGC16									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North

TestAmerica Job ID: 180-66618-1

Client Sample ID: SSHS-B759-SUB-0-2
Date Collected: 05/22/17 16:15
Date Received: 05/24/17 09:15

Lab Sample ID: 180-66618-55
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			212157	05/24/17 14:18	JJZ	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B759-SUB-0-2
Date Collected: 05/22/17 16:15
Date Received: 05/24/17 09:15

Lab Sample ID: 180-66618-55
Matrix: Solid
Percent Solids: 95.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.3 g	20.0 mL	212216	05/25/17 06:14	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	212267	05/25/17 10:33	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	212268	05/25/17 10:34	JMO	TAL PIT
Total/NA	Analysis	8082A		1			212369	05/26/17 07:06	JMO	TAL PIT
	Instrument ID: CHGC16									

Client Sample ID: PS-FD-14
Date Collected: 05/22/17 00:00
Date Received: 05/24/17 09:15

Lab Sample ID: 180-66618-57
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			212157	05/24/17 14:18	JJZ	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: PS-FD-14
Date Collected: 05/22/17 00:00
Date Received: 05/24/17 09:15

Lab Sample ID: 180-66618-57
Matrix: Solid
Percent Solids: 95.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.1 g	20.0 mL	212216	05/25/17 06:14	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	212267	05/25/17 10:33	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	212268	05/25/17 10:34	JMO	TAL PIT
Total/NA	Analysis	8082A		1			212369	05/26/17 07:28	JMO	TAL PIT
	Instrument ID: CHGC16									

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North

TestAmerica Job ID: 180-66618-1

Analyst References:

Lab: TAL PIT

Batch Type: Cleanup

JMO = John Oravec

Batch Type: Prep

BAP = Brian Pino

Batch Type: Analysis

JJZ = Joseph Zubrow

JMO = John Oravec

Client Sample ID: SSHS-B750-SUB-0-2

Lab Sample ID: 180-66618-1
Date Collected: 05/22/17 11:45
Matrix: Solid
Date Received: 05/24/17 09:15
Percent Solids: 92.8

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		18	9.4	ug/Kg	☼	05/25/17 03:45	05/25/17 14:37	1
PCB-1221	ND		18	9.2	ug/Kg	☼	05/25/17 03:45	05/25/17 14:37	1
PCB-1232	ND		18	7.0	ug/Kg	☼	05/25/17 03:45	05/25/17 14:37	1
PCB-1242	ND		18	14	ug/Kg	☼	05/25/17 03:45	05/25/17 14:37	1
PCB-1248	**810**		18	8.5	ug/Kg	☼	05/25/17 03:45	05/25/17 14:37	1
PCB-1254	**480**		18	7.8	ug/Kg	☼	05/25/17 03:45	05/25/17 14:37	1
PCB-1260	**150**		18	12	ug/Kg	☼	05/25/17 03:45	05/25/17 14:37	1
PCB-1262	ND		18	13	ug/Kg	☼	05/25/17 03:45	05/25/17 14:37	1
PCB-1268	ND		18	5.4	ug/Kg	☼	05/25/17 03:45	05/25/17 14:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*89*		*23 - 150*	*05/25/17 03:45*	*05/25/17 14:37*	*1*
DCB Decachlorobiphenyl (Surr)	*100*		*23 - 150*	*05/25/17 03:45*	*05/25/17 14:37*	*1*
Tetrachloro-m-xylene (Surr)	*87*		*27 - 138*	*05/25/17 03:45*	*05/25/17 14:37*	*1*
Tetrachloro-m-xylene (Surr)	*89*		*27 - 138*	*05/25/17 03:45*	*05/25/17 14:37*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**7.2**		0.1	0.1	%			05/24/17 14:18	1
Percent Solids	**92.8**		0.1	0.1	%			05/24/17 14:18	1

Client Sample ID: SSHS-B747-SUB-0-2

Lab Sample ID: 180-66618-3
Date Collected: 05/22/17 11:55
Matrix: Solid
Date Received: 05/24/17 09:15
Percent Solids: 93.0

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		18	9.4	ug/Kg	☼	05/25/17 03:45	05/25/17 14:58	1
PCB-1221	ND		18	9.2	ug/Kg	☼	05/25/17 03:45	05/25/17 14:58	1
PCB-1232	ND		18	7.0	ug/Kg	☼	05/25/17 03:45	05/25/17 14:58	1
PCB-1242	ND		18	14	ug/Kg	☼	05/25/17 03:45	05/25/17 14:58	1
PCB-1248	**710**		18	8.4	ug/Kg	☼	05/25/17 03:45	05/25/17 14:58	1
PCB-1254	**360**		18	7.8	ug/Kg	☼	05/25/17 03:45	05/25/17 14:58	1
PCB-1260	**92**		18	12	ug/Kg	☼	05/25/17 03:45	05/25/17 14:58	1
PCB-1262	ND		18	13	ug/Kg	☼	05/25/17 03:45	05/25/17 14:58	1
PCB-1268	ND		18	5.4	ug/Kg	☼	05/25/17 03:45	05/25/17 14:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*87*		*23 - 150*	*05/25/17 03:45*	*05/25/17 14:58*	*1*
DCB Decachlorobiphenyl (Surr)	*99*		*23 - 150*	*05/25/17 03:45*	*05/25/17 14:58*	*1*
Tetrachloro-m-xylene (Surr)	*82*		*27 - 138*	*05/25/17 03:45*	*05/25/17 14:58*	*1*
Tetrachloro-m-xylene (Surr)	*81*		*27 - 138*	*05/25/17 03:45*	*05/25/17 14:58*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**7.0**		0.1	0.1	%			05/24/17 14:18	1
Percent Solids	**93.0**		0.1	0.1	%			05/24/17 14:18	1

Client Sample ID: SSHS-B748-SUB-0-2

Lab Sample ID: 180-66618-5
Date Collected: 05/22/17 12:05
Matrix: Solid
Date Received: 05/24/17 09:15
Percent Solids: 92.0

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		18	9.4	ug/Kg	☼	05/25/17 03:45	05/25/17 15:19	1
PCB-1221	ND		18	9.1	ug/Kg	☼	05/25/17 03:45	05/25/17 15:19	1
PCB-1232	ND		18	7.0	ug/Kg	☼	05/25/17 03:45	05/25/17 15:19	1
PCB-1242	ND		18	14	ug/Kg	☼	05/25/17 03:45	05/25/17 15:19	1
PCB-1248	**760**		18	8.4	ug/Kg	☼	05/25/17 03:45	05/25/17 15:19	1
PCB-1254	**450**		18	7.7	ug/Kg	☼	05/25/17 03:45	05/25/17 15:19	1
PCB-1260	**120**		18	12	ug/Kg	☼	05/25/17 03:45	05/25/17 15:19	1
PCB-1262	ND		18	13	ug/Kg	☼	05/25/17 03:45	05/25/17 15:19	1
PCB-1268	ND		18	5.4	ug/Kg	☼	05/25/17 03:45	05/25/17 15:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*78*		*23 - 150*	*05/25/17 03:45*	*05/25/17 15:19*	*1*
DCB Decachlorobiphenyl (Surr)	*87*		*23 - 150*	*05/25/17 03:45*	*05/25/17 15:19*	*1*
Tetrachloro-m-xylene (Surr)	*81*		*27 - 138*	*05/25/17 03:45*	*05/25/17 15:19*	*1*
Tetrachloro-m-xylene (Surr)	*79*		*27 - 138*	*05/25/17 03:45*	*05/25/17 15:19*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**8.0**		0.1	0.1	%			05/24/17 14:18	1
Percent Solids	**92.0**		0.1	0.1	%			05/24/17 14:18	1

Client Sample ID: SSHS-B749-SUB-0-2

Lab Sample ID: 180-66618-7
Date Collected: 05/22/17 12:10
Matrix: Solid
Date Received: 05/24/17 09:15
Percent Solids: 92.2

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		18	9.6	ug/Kg	☼	05/25/17 03:45	05/25/17 15:40	1
PCB-1221	ND		18	9.4	ug/Kg	☼	05/25/17 03:45	05/25/17 15:40	1
PCB-1232	ND		18	7.2	ug/Kg	☼	05/25/17 03:45	05/25/17 15:40	1
PCB-1242	ND		18	14	ug/Kg	☼	05/25/17 03:45	05/25/17 15:40	1
PCB-1248	**370**		18	8.6	ug/Kg	☼	05/25/17 03:45	05/25/17 15:40	1
PCB-1254	**390**		18	7.9	ug/Kg	☼	05/25/17 03:45	05/25/17 15:40	1
PCB-1260	**130**		18	12	ug/Kg	☼	05/25/17 03:45	05/25/17 15:40	1
PCB-1262	ND		18	13	ug/Kg	☼	05/25/17 03:45	05/25/17 15:40	1
PCB-1268	ND		18	5.5	ug/Kg	☼	05/25/17 03:45	05/25/17 15:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*82*		*23 - 150*	*05/25/17 03:45*	*05/25/17 15:40*	*1*
DCB Decachlorobiphenyl (Surr)	*97*		*23 - 150*	*05/25/17 03:45*	*05/25/17 15:40*	*1*
Tetrachloro-m-xylene (Surr)	*84*		*27 - 138*	*05/25/17 03:45*	*05/25/17 15:40*	*1*
Tetrachloro-m-xylene (Surr)	*82*		*27 - 138*	*05/25/17 03:45*	*05/25/17 15:40*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**7.8**		0.1	0.1	%			05/24/17 14:18	1
Percent Solids	**92.2**		0.1	0.1	%			05/24/17 14:18	1

Client Sample ID: PS-FD-11

Date Collected: 05/22/17 00:00
Date Received: 05/24/17 09:15

Lab Sample ID: 180-66618-12

Matrix: Solid
Percent Solids: 94.1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		17	9.2	ug/Kg	☼	05/25/17 03:45	05/25/17 16:45	1
PCB-1221	ND		17	8.9	ug/Kg	☼	05/25/17 03:45	05/25/17 16:45	1
PCB-1232	ND		17	6.8	ug/Kg	☼	05/25/17 03:45	05/25/17 16:45	1
PCB-1242	ND		17	14	ug/Kg	☼	05/25/17 03:45	05/25/17 16:45	1
PCB-1248	**290**		17	8.2	ug/Kg	☼	05/25/17 03:45	05/25/17 16:45	1
PCB-1254	**290**		17	7.6	ug/Kg	☼	05/25/17 03:45	05/25/17 16:45	1
PCB-1260	**96**		17	12	ug/Kg	☼	05/25/17 03:45	05/25/17 16:45	1
PCB-1262	ND		17	12	ug/Kg	☼	05/25/17 03:45	05/25/17 16:45	1
PCB-1268	ND		17	5.3	ug/Kg	☼	05/25/17 03:45	05/25/17 16:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*86*		*23 - 150*	*05/25/17 03:45*	*05/25/17 16:45*	*1*
DCB Decachlorobiphenyl (Surr)	*91*		*23 - 150*	*05/25/17 03:45*	*05/25/17 16:45*	*1*
Tetrachloro-m-xylene (Surr)	*83*		*27 - 138*	*05/25/17 03:45*	*05/25/17 16:45*	*1*
Tetrachloro-m-xylene (Surr)	*83*		*27 - 138*	*05/25/17 03:45*	*05/25/17 16:45*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**5.9**		0.1	0.1	%			05/24/17 14:18	1
Percent Solids	**94.1**		0.1	0.1	%			05/24/17 14:18	1

Client Sample ID: SSHS-B752-SUB-0-2

Date Collected: 05/22/17 13:30
Date Received: 05/24/17 09:15

Lab Sample ID: 180-66618-22

Matrix: Solid
Percent Solids: 94.5

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		17	9.2	ug/Kg	☼	05/25/17 03:45	05/25/17 17:06	1
PCB-1221	ND		17	9.0	ug/Kg	☼	05/25/17 03:45	05/25/17 17:06	1
PCB-1232	ND		17	6.8	ug/Kg	☼	05/25/17 03:45	05/25/17 17:06	1
PCB-1242	ND		17	14	ug/Kg	☼	05/25/17 03:45	05/25/17 17:06	1
PCB-1248	**570**		17	8.3	ug/Kg	☼	05/25/17 03:45	05/25/17 17:06	1
PCB-1254	**340**		17	7.6	ug/Kg	☼	05/25/17 03:45	05/25/17 17:06	1
PCB-1260	**100**		17	12	ug/Kg	☼	05/25/17 03:45	05/25/17 17:06	1
PCB-1262	ND		17	12	ug/Kg	☼	05/25/17 03:45	05/25/17 17:06	1
PCB-1268	ND		17	5.3	ug/Kg	☼	05/25/17 03:45	05/25/17 17:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*84*		*23 - 150*	*05/25/17 03:45*	*05/25/17 17:06*	*1*
DCB Decachlorobiphenyl (Surr)	*90*		*23 - 150*	*05/25/17 03:45*	*05/25/17 17:06*	*1*
Tetrachloro-m-xylene (Surr)	*79*		*27 - 138*	*05/25/17 03:45*	*05/25/17 17:06*	*1*
Tetrachloro-m-xylene (Surr)	*80*		*27 - 138*	*05/25/17 03:45*	*05/25/17 17:06*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**5.5**		0.1	0.1	%			05/24/17 14:18	1
Percent Solids	**94.5**		0.1	0.1	%			05/24/17 14:18	1

Client Sample ID: PS-FD-12

Date Collected: 05/22/17 00:00
Date Received: 05/24/17 09:15

Lab Sample ID: 180-66618-24

Matrix: Solid
Percent Solids: 93.9

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		18	9.3	ug/Kg	☼	05/25/17 03:45	05/25/17 17:26	1
PCB-1221	ND		18	9.1	ug/Kg	☼	05/25/17 03:45	05/25/17 17:26	1
PCB-1232	ND		18	6.9	ug/Kg	☼	05/25/17 03:45	05/25/17 17:26	1
PCB-1242	ND		18	14	ug/Kg	☼	05/25/17 03:45	05/25/17 17:26	1
PCB-1248	**850**		18	8.4	ug/Kg	☼	05/25/17 03:45	05/25/17 17:26	1
PCB-1254	**460**		18	7.7	ug/Kg	☼	05/25/17 03:45	05/25/17 17:26	1
PCB-1260	**130**		18	12	ug/Kg	☼	05/25/17 03:45	05/25/17 17:26	1
PCB-1262	ND		18	13	ug/Kg	☼	05/25/17 03:45	05/25/17 17:26	1
PCB-1268	ND		18	5.3	ug/Kg	☼	05/25/17 03:45	05/25/17 17:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*75*		*23 - 150*	*05/25/17 03:45*	*05/25/17 17:26*	*1*
DCB Decachlorobiphenyl (Surr)	*82*		*23 - 150*	*05/25/17 03:45*	*05/25/17 17:26*	*1*
Tetrachloro-m-xylene (Surr)	*73*		*27 - 138*	*05/25/17 03:45*	*05/25/17 17:26*	*1*
Tetrachloro-m-xylene (Surr)	*73*		*27 - 138*	*05/25/17 03:45*	*05/25/17 17:26*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**6.1**		0.1	0.1	%			05/24/17 14:18	1
Percent Solids	**93.9**		0.1	0.1	%			05/24/17 14:18	1

Client Sample ID: SSHS-B746-SUB-0-2

Date Collected: 05/22/17 13:55
Date Received: 05/24/17 09:15

Lab Sample ID: 180-66618-31

Matrix: Solid
Percent Solids: 94.0

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		17	9.1	ug/Kg	☼	05/25/17 03:45	05/25/17 17:48	1
PCB-1221	ND		17	8.9	ug/Kg	☼	05/25/17 03:45	05/25/17 17:48	1
PCB-1232	ND		17	6.8	ug/Kg	☼	05/25/17 03:45	05/25/17 17:48	1
PCB-1242	ND		17	14	ug/Kg	☼	05/25/17 03:45	05/25/17 17:48	1
PCB-1248	**250**		17	8.2	ug/Kg	☼	05/25/17 03:45	05/25/17 17:48	1
PCB-1254	**120**		17	7.5	ug/Kg	☼	05/25/17 03:45	05/25/17 17:48	1
PCB-1260	**32**		17	11	ug/Kg	☼	05/25/17 03:45	05/25/17 17:48	1
PCB-1262	ND		17	12	ug/Kg	☼	05/25/17 03:45	05/25/17 17:48	1
PCB-1268	ND		17	5.2	ug/Kg	☼	05/25/17 03:45	05/25/17 17:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*66*		*23 - 150*	*05/25/17 03:45*	*05/25/17 17:48*	*1*
DCB Decachlorobiphenyl (Surr)	*70*		*23 - 150*	*05/25/17 03:45*	*05/25/17 17:48*	*1*
Tetrachloro-m-xylene (Surr)	*68*		*27 - 138*	*05/25/17 03:45*	*05/25/17 17:48*	*1*
Tetrachloro-m-xylene (Surr)	*71*		*27 - 138*	*05/25/17 03:45*	*05/25/17 17:48*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**6.0**		0.1	0.1	%			05/24/17 14:18	1
Percent Solids	**94.0**		0.1	0.1	%			05/24/17 14:18	1

Client Sample ID: SSHS-B745-SUB-0-2

Lab Sample ID: 180-66618-33
Date Collected: 05/22/17 14:05
Matrix: Solid
Date Received: 05/24/17 09:15
Percent Solids: 88.8

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		19	9.9	ug/Kg	☼	05/25/17 03:45	05/25/17 18:52	1
PCB-1221	ND		19	9.7	ug/Kg	☼	05/25/17 03:45	05/25/17 18:52	1
PCB-1232	ND		19	7.4	ug/Kg	☼	05/25/17 03:45	05/25/17 18:52	1
PCB-1242	ND		19	15	ug/Kg	☼	05/25/17 03:45	05/25/17 18:52	1
PCB-1248	**280**		19	8.9	ug/Kg	☼	05/25/17 03:45	05/25/17 18:52	1
PCB-1254	**110**		19	8.2	ug/Kg	☼	05/25/17 03:45	05/25/17 18:52	1
PCB-1260	**31**		19	12	ug/Kg	☼	05/25/17 03:45	05/25/17 18:52	1
PCB-1262	ND		19	13	ug/Kg	☼	05/25/17 03:45	05/25/17 18:52	1
PCB-1268	ND		19	5.7	ug/Kg	☼	05/25/17 03:45	05/25/17 18:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*65*		*23 - 150*	*05/25/17 03:45*	*05/25/17 18:52*	*1*
DCB Decachlorobiphenyl (Surr)	*69*		*23 - 150*	*05/25/17 03:45*	*05/25/17 18:52*	*1*
Tetrachloro-m-xylene (Surr)	*73*		*27 - 138*	*05/25/17 03:45*	*05/25/17 18:52*	*1*
Tetrachloro-m-xylene (Surr)	*76*		*27 - 138*	*05/25/17 03:45*	*05/25/17 18:52*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**11.2**		0.1	0.1	%			05/24/17 14:18	1
Percent Solids	**88.8**		0.1	0.1	%			05/24/17 14:18	1

Client Sample ID: PS-FD-13

Lab Sample ID: 180-66618-36
Date Collected: 05/22/17 00:00
Matrix: Solid
Date Received: 05/24/17 09:15
Percent Solids: 91.5

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		18	9.7	ug/Kg	☼	05/25/17 03:45	05/25/17 19:13	1
PCB-1221	ND		18	9.4	ug/Kg	☼	05/25/17 03:45	05/25/17 19:13	1
PCB-1232	ND		18	7.2	ug/Kg	☼	05/25/17 03:45	05/25/17 19:13	1
PCB-1242	ND		18	14	ug/Kg	☼	05/25/17 03:45	05/25/17 19:13	1
PCB-1248	**240**		18	8.7	ug/Kg	☼	05/25/17 03:45	05/25/17 19:13	1
PCB-1254	**94**		18	8.0	ug/Kg	☼	05/25/17 03:45	05/25/17 19:13	1
PCB-1260	**26**		18	12	ug/Kg	☼	05/25/17 03:45	05/25/17 19:13	1
PCB-1262	ND		18	13	ug/Kg	☼	05/25/17 03:45	05/25/17 19:13	1
PCB-1268	ND		18	5.5	ug/Kg	☼	05/25/17 03:45	05/25/17 19:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*70*		*23 - 150*	*05/25/17 03:45*	*05/25/17 19:13*	*1*
DCB Decachlorobiphenyl (Surr)	*73*		*23 - 150*	*05/25/17 03:45*	*05/25/17 19:13*	*1*
Tetrachloro-m-xylene (Surr)	*81*		*27 - 138*	*05/25/17 03:45*	*05/25/17 19:13*	*1*
Tetrachloro-m-xylene (Surr)	*83*		*27 - 138*	*05/25/17 03:45*	*05/25/17 19:13*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**8.5**		0.1	0.1	%			05/24/17 14:18	1
Percent Solids	**91.5**		0.1	0.1	%			05/24/17 14:18	1

Client Sample ID: SSHS-B761-SUB-2-4

Lab Sample ID: 180-66618-38
Date Collected: 05/22/17 15:05
Matrix: Solid
Date Received: 05/24/17 09:15
Percent Solids: 89.7

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		18	9.7	ug/Kg	☼	05/25/17 03:45	05/25/17 19:34	1
PCB-1221	ND		18	9.4	ug/Kg	☼	05/25/17 03:45	05/25/17 19:34	1
PCB-1232	ND		18	7.2	ug/Kg	☼	05/25/17 03:45	05/25/17 19:34	1
PCB-1242	ND		18	14	ug/Kg	☼	05/25/17 03:45	05/25/17 19:34	1
PCB-1248	**14**	**J**	18	8.7	ug/Kg	☼	05/25/17 03:45	05/25/17 19:34	1
PCB-1254	ND		18	8.0	ug/Kg	☼	05/25/17 03:45	05/25/17 19:34	1
PCB-1260	ND		18	12	ug/Kg	☼	05/25/17 03:45	05/25/17 19:34	1
PCB-1262	ND		18	13	ug/Kg	☼	05/25/17 03:45	05/25/17 19:34	1
PCB-1268	ND		18	5.5	ug/Kg	☼	05/25/17 03:45	05/25/17 19:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*64*		*23 - 150*	*05/25/17 03:45*	*05/25/17 19:34*	*1*
DCB Decachlorobiphenyl (Surr)	*71*		*23 - 150*	*05/25/17 03:45*	*05/25/17 19:34*	*1*
Tetrachloro-m-xylene (Surr)	*73*		*27 - 138*	*05/25/17 03:45*	*05/25/17 19:34*	*1*
Tetrachloro-m-xylene (Surr)	*77*		*27 - 138*	*05/25/17 03:45*	*05/25/17 19:34*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**10.3**		0.1	0.1	%			05/24/17 14:18	1
Percent Solids	**89.7**		0.1	0.1	%			05/24/17 14:18	1

Client Sample ID: SSHS-B756-SUB-2-4

Lab Sample ID: 180-66618-39
Date Collected: 05/22/17 15:10
Matrix: Solid
Date Received: 05/24/17 09:15
Percent Solids: 91.7

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		18	9.5	ug/Kg	☼	05/25/17 03:45	05/25/17 19:54	1
PCB-1221	ND		18	9.3	ug/Kg	☼	05/25/17 03:45	05/25/17 19:54	1
PCB-1232	ND		18	7.1	ug/Kg	☼	05/25/17 03:45	05/25/17 19:54	1
PCB-1242	ND		18	14	ug/Kg	☼	05/25/17 03:45	05/25/17 19:54	1
PCB-1248	**200**		18	8.6	ug/Kg	☼	05/25/17 03:45	05/25/17 19:54	1
PCB-1254	**150**		18	7.9	ug/Kg	☼	05/25/17 03:45	05/25/17 19:54	1
PCB-1260	**49**		18	12	ug/Kg	☼	05/25/17 03:45	05/25/17 19:54	1
PCB-1262	ND		18	13	ug/Kg	☼	05/25/17 03:45	05/25/17 19:54	1
PCB-1268	ND		18	5.5	ug/Kg	☼	05/25/17 03:45	05/25/17 19:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*70*		*23 - 150*	*05/25/17 03:45*	*05/25/17 19:54*	*1*
DCB Decachlorobiphenyl (Surr)	*74*		*23 - 150*	*05/25/17 03:45*	*05/25/17 19:54*	*1*
Tetrachloro-m-xylene (Surr)	*73*		*27 - 138*	*05/25/17 03:45*	*05/25/17 19:54*	*1*
Tetrachloro-m-xylene (Surr)	*76*		*27 - 138*	*05/25/17 03:45*	*05/25/17 19:54*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**8.3**		0.1	0.1	%			05/24/17 14:18	1
Percent Solids	**91.7**		0.1	0.1	%			05/24/17 14:18	1

Client Sample ID: SSHS-B757-SUB-2-4

Lab Sample ID: 180-66618-40
Date Collected: 05/22/17 15:15
Matrix: Solid
Date Received: 05/24/17 09:15
Percent Solids: 91.5

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		18	9.4	ug/Kg	☼	05/25/17 03:45	05/25/17 20:15	1
PCB-1221	ND		18	9.2	ug/Kg	☼	05/25/17 03:45	05/25/17 20:15	1
PCB-1232	ND		18	7.0	ug/Kg	☼	05/25/17 03:45	05/25/17 20:15	1
PCB-1242	ND		18	14	ug/Kg	☼	05/25/17 03:45	05/25/17 20:15	1
PCB-1248	ND		18	8.5	ug/Kg	☼	05/25/17 03:45	05/25/17 20:15	1
PCB-1254	ND		18	7.8	ug/Kg	☼	05/25/17 03:45	05/25/17 20:15	1
PCB-1260	ND		18	12	ug/Kg	☼	05/25/17 03:45	05/25/17 20:15	1
PCB-1262	ND		18	13	ug/Kg	☼	05/25/17 03:45	05/25/17 20:15	1
PCB-1268	ND		18	5.4	ug/Kg	☼	05/25/17 03:45	05/25/17 20:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*70*		*23 - 150*	*05/25/17 03:45*	*05/25/17 20:15*	*1*
DCB Decachlorobiphenyl (Surr)	*76*		*23 - 150*	*05/25/17 03:45*	*05/25/17 20:15*	*1*
Tetrachloro-m-xylene (Surr)	*80*		*27 - 138*	*05/25/17 03:45*	*05/25/17 20:15*	*1*
Tetrachloro-m-xylene (Surr)	*84*		*27 - 138*	*05/25/17 03:45*	*05/25/17 20:15*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**8.5**		0.1	0.1	%			05/24/17 14:18	1
Percent Solids	**91.5**		0.1	0.1	%			05/24/17 14:18	1

Client Sample ID: SSHS-B758-SUB-0-2

Lab Sample ID: 180-66618-41
Date Collected: 05/22/17 15:20
Matrix: Solid
Date Received: 05/24/17 09:15
Percent Solids: 95.7

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		17	9.2	ug/Kg	☼	05/25/17 03:45	05/25/17 20:37	1
PCB-1221	ND		17	9.0	ug/Kg	☼	05/25/17 03:45	05/25/17 20:37	1
PCB-1232	ND		17	6.9	ug/Kg	☼	05/25/17 03:45	05/25/17 20:37	1
PCB-1242	ND		17	14	ug/Kg	☼	05/25/17 03:45	05/25/17 20:37	1
PCB-1248	**810**		17	8.3	ug/Kg	☼	05/25/17 03:45	05/25/17 20:37	1
PCB-1254	**350**		17	7.6	ug/Kg	☼	05/25/17 03:45	05/25/17 20:37	1
PCB-1260	**110**		17	12	ug/Kg	☼	05/25/17 03:45	05/25/17 20:37	1
PCB-1262	ND		17	12	ug/Kg	☼	05/25/17 03:45	05/25/17 20:37	1
PCB-1268	ND		17	5.3	ug/Kg	☼	05/25/17 03:45	05/25/17 20:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*73*		*23 - 150*	*05/25/17 03:45*	*05/25/17 20:37*	*1*
DCB Decachlorobiphenyl (Surr)	*78*		*23 - 150*	*05/25/17 03:45*	*05/25/17 20:37*	*1*
Tetrachloro-m-xylene (Surr)	*77*		*27 - 138*	*05/25/17 03:45*	*05/25/17 20:37*	*1*
Tetrachloro-m-xylene (Surr)	*82*		*27 - 138*	*05/25/17 03:45*	*05/25/17 20:37*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**4.3**		0.1	0.1	%			05/24/17 14:18	1
Percent Solids	**95.7**		0.1	0.1	%			05/24/17 14:18	1

Client Sample ID: SSHS-B751-SUB-0-2

Lab Sample ID: 180-66618-53

Date Collected: 05/22/17 16:10
Matrix: Solid
Date Received: 05/24/17 09:15
Percent Solids: 90.0

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		18	9.6	ug/Kg	☼	05/25/17 06:14	05/25/17 21:42	1
PCB-1221	ND		18	9.4	ug/Kg	☼	05/25/17 06:14	05/25/17 21:42	1
PCB-1232	ND		18	7.2	ug/Kg	☼	05/25/17 06:14	05/25/17 21:42	1
PCB-1242	ND		18	14	ug/Kg	☼	05/25/17 06:14	05/25/17 21:42	1
PCB-1248	**2100**		18	8.7	ug/Kg	☼	05/25/17 06:14	05/25/17 21:42	1
PCB-1254	**1000**		18	8.0	ug/Kg	☼	05/25/17 06:14	05/25/17 21:42	1
PCB-1260	**250**		18	12	ug/Kg	☼	05/25/17 06:14	05/25/17 21:42	1
PCB-1262	ND		18	13	ug/Kg	☼	05/25/17 06:14	05/25/17 21:42	1
PCB-1268	ND		18	5.5	ug/Kg	☼	05/25/17 06:14	05/25/17 21:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*76*		*23 - 150*	*05/25/17 06:14*	*05/25/17 21:42*	*1*
DCB Decachlorobiphenyl (Surr)	*83*		*23 - 150*	*05/25/17 06:14*	*05/25/17 21:42*	*1*
Tetrachloro-m-xylene (Surr)	*84*		*27 - 138*	*05/25/17 06:14*	*05/25/17 21:42*	*1*
Tetrachloro-m-xylene (Surr)	*81*		*27 - 138*	*05/25/17 06:14*	*05/25/17 21:42*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**10.0**		0.1	0.1	%			05/24/17 14:18	1
Percent Solids	**90.0**		0.1	0.1	%			05/24/17 14:18	1

Client Sample ID: SSHS-B759-SUB-0-2

Lab Sample ID: 180-66618-55

Date Collected: 05/22/17 16:15
Matrix: Solid
Date Received: 05/24/17 09:15
Percent Solids: 95.2

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		17	9.1	ug/Kg	☼	05/25/17 06:14	05/26/17 07:06	1
PCB-1221	ND		17	8.9	ug/Kg	☼	05/25/17 06:14	05/26/17 07:06	1
PCB-1232	ND		17	6.8	ug/Kg	☼	05/25/17 06:14	05/26/17 07:06	1
PCB-1242	ND		17	14	ug/Kg	☼	05/25/17 06:14	05/26/17 07:06	1
PCB-1248	**230**		17	8.2	ug/Kg	☼	05/25/17 06:14	05/26/17 07:06	1
PCB-1254	**170**		17	7.5	ug/Kg	☼	05/25/17 06:14	05/26/17 07:06	1
PCB-1260	**52**		17	11	ug/Kg	☼	05/25/17 06:14	05/26/17 07:06	1
PCB-1262	ND		17	12	ug/Kg	☼	05/25/17 06:14	05/26/17 07:06	1
PCB-1268	ND		17	5.2	ug/Kg	☼	05/25/17 06:14	05/26/17 07:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*86*		*23 - 150*	*05/25/17 06:14*	*05/26/17 07:06*	*1*
DCB Decachlorobiphenyl (Surr)	*101*		*23 - 150*	*05/25/17 06:14*	*05/26/17 07:06*	*1*
Tetrachloro-m-xylene (Surr)	*92*		*27 - 138*	*05/25/17 06:14*	*05/26/17 07:06*	*1*
Tetrachloro-m-xylene (Surr)	*94*		*27 - 138*	*05/25/17 06:14*	*05/26/17 07:06*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**4.8**		0.1	0.1	%			05/24/17 14:18	1
Percent Solids	**95.2**		0.1	0.1	%			05/24/17 14:18	1

Client Sample ID: PS-FD-14
Date Collected: 05/22/17 00:00
Date Received: 05/24/17 09:15

Lab Sample ID: 180-66618-57
Matrix: Solid
Percent Solids: 95.5

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		17	9.2	ug/Kg	☼	05/25/17 06:14	05/26/17 07:28	1
PCB-1221	ND		17	9.0	ug/Kg	☼	05/25/17 06:14	05/26/17 07:28	1
PCB-1232	ND		17	6.9	ug/Kg	☼	05/25/17 06:14	05/26/17 07:28	1
PCB-1242	ND		17	14	ug/Kg	☼	05/25/17 06:14	05/26/17 07:28	1
PCB-1248	**550**		17	8.3	ug/Kg	☼	05/25/17 06:14	05/26/17 07:28	1
PCB-1254	**390**		17	7.6	ug/Kg	☼	05/25/17 06:14	05/26/17 07:28	1
PCB-1260	**130**		17	12	ug/Kg	☼	05/25/17 06:14	05/26/17 07:28	1
PCB-1262	ND		17	12	ug/Kg	☼	05/25/17 06:14	05/26/17 07:28	1
PCB-1268	ND		17	5.3	ug/Kg	☼	05/25/17 06:14	05/26/17 07:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*93*		*23 - 150*	*05/25/17 06:14*	*05/26/17 07:28*	*1*
DCB Decachlorobiphenyl (Surr)	*110*		*23 - 150*	*05/25/17 06:14*	*05/26/17 07:28*	*1*
Tetrachloro-m-xylene (Surr)	*108*		*27 - 138*	*05/25/17 06:14*	*05/26/17 07:28*	*1*
Tetrachloro-m-xylene (Surr)	*108*		*27 - 138*	*05/25/17 06:14*	*05/26/17 07:28*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**4.5**		0.1	0.1	%			05/24/17 14:18	1
Percent Solids	**95.5**		0.1	0.1	%			05/24/17 14:18	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 180-212216/1-C
Matrix: Solid
Analysis Batch: 212238

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 212216

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		17	8.8	ug/Kg		05/25/17 03:45	05/25/17 14:15	1
PCB-1221	ND		17	8.6	ug/Kg		05/25/17 03:45	05/25/17 14:15	1
PCB-1232	ND		17	6.6	ug/Kg		05/25/17 03:45	05/25/17 14:15	1
PCB-1242	ND		17	13	ug/Kg		05/25/17 03:45	05/25/17 14:15	1
PCB-1248	ND		17	8.0	ug/Kg		05/25/17 03:45	05/25/17 14:15	1
PCB-1254	ND		17	7.3	ug/Kg		05/25/17 03:45	05/25/17 14:15	1
PCB-1260	ND		17	11	ug/Kg		05/25/17 03:45	05/25/17 14:15	1
PCB-1262	ND		17	12	ug/Kg		05/25/17 03:45	05/25/17 14:15	1
PCB-1268	ND		17	5.1	ug/Kg		05/25/17 03:45	05/25/17 14:15	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*92*		*23 - 150*	*05/25/17 03:45*	*05/25/17 14:15*	*1*
DCB Decachlorobiphenyl (Surr)	*100*		*23 - 150*	*05/25/17 03:45*	*05/25/17 14:15*	*1*
Tetrachloro-m-xylene (Surr)	*89*		*27 - 138*	*05/25/17 03:45*	*05/25/17 14:15*	*1*
Tetrachloro-m-xylene (Surr)	*90*		*27 - 138*	*05/25/17 03:45*	*05/25/17 14:15*	*1*

Lab Sample ID: LCS 180-212216/2-C
Matrix: Solid
Analysis Batch: 212238

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 212216

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			1330	1040		ug/Kg		78	52 - 126		
PCB-1260			1330	1110		ug/Kg		83	50 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*87*		*23 - 150*
DCB Decachlorobiphenyl (Surr)	*92*		*23 - 150*
Tetrachloro-m-xylene (Surr)	*85*		*27 - 138*
Tetrachloro-m-xylene (Surr)	*84*		*27 - 138*

Lab Sample ID: 180-66618-31 MS
Matrix: Solid
Analysis Batch: 212238

Client Sample ID: SSHS-B746-SUB-0-2
Prep Type: Total/NA
Prep Batch: 212216

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016	ND		1410	1310		ug/Kg	☼	93	52 - 126		
PCB-1260	32		1410	1110		ug/Kg	☼	76	50 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*73*		*23 - 150*
DCB Decachlorobiphenyl (Surr)	*79*		*23 - 150*
Tetrachloro-m-xylene (Surr)	*84*		*27 - 138*
Tetrachloro-m-xylene (Surr)	*87*		*27 - 138*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 180-66618-31 MSD
Matrix: Solid
Analysis Batch: 212238

Client Sample ID: SSHS-B746-SUB-0-2
Prep Type: Total/NA
Prep Batch: 212216

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	ND		1390	1200		ug/Kg	☼	86	52 - 126	8	20
PCB-1260	32		1390	1150		ug/Kg	☼	81	50 - 130	4	21

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*80*		*23 - 150*
DCB Decachlorobiphenyl (Surr)	*83*		*23 - 150*
Tetrachloro-m-xylene (Surr)	*83*		*27 - 138*
Tetrachloro-m-xylene (Surr)	*84*		*27 - 138*

Lab Sample ID: 180-66618-41 MS
Matrix: Solid
Analysis Batch: 212238

Client Sample ID: SSHS-B758-SUB-0-2
Prep Type: Total/NA
Prep Batch: 212216

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	ND		1360	1440		ug/Kg	☼	106	52 - 126
PCB-1260	110		1360	1100		ug/Kg	☼	73	50 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*74*		*23 - 150*
DCB Decachlorobiphenyl (Surr)	*83*		*23 - 150*
Tetrachloro-m-xylene (Surr)	*87*		*27 - 138*
Tetrachloro-m-xylene (Surr)	*90*		*27 - 138*

Lab Sample ID: 180-66618-41 MSD
Matrix: Solid
Analysis Batch: 212238

Client Sample ID: SSHS-B758-SUB-0-2
Prep Type: Total/NA
Prep Batch: 212216

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	ND		1350	1350		ug/Kg	☼	100	52 - 126	7	20
PCB-1260	110		1350	1180		ug/Kg	☼	80	50 - 130	7	21

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*81*		*23 - 150*
DCB Decachlorobiphenyl (Surr)	*86*		*23 - 150*
Tetrachloro-m-xylene (Surr)	*87*		*27 - 138*
Tetrachloro-m-xylene (Surr)	*90*		*27 - 138*

Method: 2540G - SM 2540G

Lab Sample ID: 180-66618-31 DU
Matrix: Solid
Analysis Batch: 212157

Client Sample ID: SSHS-B746-SUB-0-2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	6.0		6.2		%		4	20
Percent Solids	94.0		93.8		%		0.3	20

GC Semi VOA

Prep Batch: 212216

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-66618-1	SSHS-B750-SUB-0-2	Total/NA	Solid	3541	
180-66618-3	SSHS-B747-SUB-0-2	Total/NA	Solid	3541	
180-66618-5	SSHS-B748-SUB-0-2	Total/NA	Solid	3541	
180-66618-7	SSHS-B749-SUB-0-2	Total/NA	Solid	3541	
180-66618-12	PS-FD-11	Total/NA	Solid	3541	
180-66618-22	SSHS-B752-SUB-0-2	Total/NA	Solid	3541	
180-66618-24	PS-FD-12	Total/NA	Solid	3541	
180-66618-31	SSHS-B746-SUB-0-2	Total/NA	Solid	3541	
180-66618-33	SSHS-B745-SUB-0-2	Total/NA	Solid	3541	
180-66618-36	PS-FD-13	Total/NA	Solid	3541	
180-66618-38	SSHS-B761-SUB-2-4	Total/NA	Solid	3541	
180-66618-39	SSHS-B756-SUB-2-4	Total/NA	Solid	3541	
180-66618-40	SSHS-B757-SUB-2-4	Total/NA	Solid	3541	
180-66618-41	SSHS-B758-SUB-0-2	Total/NA	Solid	3541	
180-66618-53	SSHS-B751-SUB-0-2	Total/NA	Solid	3541	
180-66618-55	SSHS-B759-SUB-0-2	Total/NA	Solid	3541	
180-66618-57	PS-FD-14	Total/NA	Solid	3541	
MB 180-212216/1-C	Method Blank	Total/NA	Solid	3541	
LCS 180-212216/2-C	Lab Control Sample	Total/NA	Solid	3541	
180-66618-31 MS	SSHS-B746-SUB-0-2	Total/NA	Solid	3541	
180-66618-31 MSD	SSHS-B746-SUB-0-2	Total/NA	Solid	3541	
180-66618-41 MS	SSHS-B758-SUB-0-2	Total/NA	Solid	3541	
180-66618-41 MSD	SSHS-B758-SUB-0-2	Total/NA	Solid	3541	

Analysis Batch: 212238

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-66618-1	SSHS-B750-SUB-0-2	Total/NA	Solid	8082A	212268
180-66618-3	SSHS-B747-SUB-0-2	Total/NA	Solid	8082A	212268
180-66618-5	SSHS-B748-SUB-0-2	Total/NA	Solid	8082A	212268
180-66618-7	SSHS-B749-SUB-0-2	Total/NA	Solid	8082A	212268
180-66618-12	PS-FD-11	Total/NA	Solid	8082A	212268
180-66618-22	SSHS-B752-SUB-0-2	Total/NA	Solid	8082A	212268
180-66618-24	PS-FD-12	Total/NA	Solid	8082A	212268
180-66618-31	SSHS-B746-SUB-0-2	Total/NA	Solid	8082A	212268
180-66618-33	SSHS-B745-SUB-0-2	Total/NA	Solid	8082A	212268
180-66618-36	PS-FD-13	Total/NA	Solid	8082A	212268
180-66618-38	SSHS-B761-SUB-2-4	Total/NA	Solid	8082A	212268
180-66618-39	SSHS-B756-SUB-2-4	Total/NA	Solid	8082A	212268
180-66618-40	SSHS-B757-SUB-2-4	Total/NA	Solid	8082A	212268
180-66618-41	SSHS-B758-SUB-0-2	Total/NA	Solid	8082A	212268
180-66618-53	SSHS-B751-SUB-0-2	Total/NA	Solid	8082A	212268
MB 180-212216/1-C	Method Blank	Total/NA	Solid	8082A	212268
LCS 180-212216/2-C	Lab Control Sample	Total/NA	Solid	8082A	212268
180-66618-31 MS	SSHS-B746-SUB-0-2	Total/NA	Solid	8082A	212268
180-66618-31 MSD	SSHS-B746-SUB-0-2	Total/NA	Solid	8082A	212268
180-66618-41 MS	SSHS-B758-SUB-0-2	Total/NA	Solid	8082A	212268
180-66618-41 MSD	SSHS-B758-SUB-0-2	Total/NA	Solid	8082A	212268

Cleanup Batch: 212267

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-66618-1	SSHS-B750-SUB-0-2	Total/NA	Solid	3665A	212216

GC Semi VOA (Continued)

Cleanup Batch: 212267 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-66618-3	SSHS-B747-SUB-0-2	Total/NA	Solid	3665A	212216
180-66618-5	SSHS-B748-SUB-0-2	Total/NA	Solid	3665A	212216
180-66618-7	SSHS-B749-SUB-0-2	Total/NA	Solid	3665A	212216
180-66618-12	PS-FD-11	Total/NA	Solid	3665A	212216
180-66618-22	SSHS-B752-SUB-0-2	Total/NA	Solid	3665A	212216
180-66618-24	PS-FD-12	Total/NA	Solid	3665A	212216
180-66618-31	SSHS-B746-SUB-0-2	Total/NA	Solid	3665A	212216
180-66618-33	SSHS-B745-SUB-0-2	Total/NA	Solid	3665A	212216
180-66618-36	PS-FD-13	Total/NA	Solid	3665A	212216
180-66618-38	SSHS-B761-SUB-2-4	Total/NA	Solid	3665A	212216
180-66618-39	SSHS-B756-SUB-2-4	Total/NA	Solid	3665A	212216
180-66618-40	SSHS-B757-SUB-2-4	Total/NA	Solid	3665A	212216
180-66618-41	SSHS-B758-SUB-0-2	Total/NA	Solid	3665A	212216
180-66618-53	SSHS-B751-SUB-0-2	Total/NA	Solid	3665A	212216
180-66618-55	SSHS-B759-SUB-0-2	Total/NA	Solid	3665A	212216
180-66618-57	PS-FD-14	Total/NA	Solid	3665A	212216
MB 180-212216/1-C	Method Blank	Total/NA	Solid	3665A	212216
LCS 180-212216/2-C	Lab Control Sample	Total/NA	Solid	3665A	212216
180-66618-31 MS	SSHS-B746-SUB-0-2	Total/NA	Solid	3665A	212216
180-66618-31 MSD	SSHS-B746-SUB-0-2	Total/NA	Solid	3665A	212216
180-66618-41 MS	SSHS-B758-SUB-0-2	Total/NA	Solid	3665A	212216
180-66618-41 MSD	SSHS-B758-SUB-0-2	Total/NA	Solid	3665A	212216

Cleanup Batch: 212268

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-66618-1	SSHS-B750-SUB-0-2	Total/NA	Solid	3660B	212267
180-66618-3	SSHS-B747-SUB-0-2	Total/NA	Solid	3660B	212267
180-66618-5	SSHS-B748-SUB-0-2	Total/NA	Solid	3660B	212267
180-66618-7	SSHS-B749-SUB-0-2	Total/NA	Solid	3660B	212267
180-66618-12	PS-FD-11	Total/NA	Solid	3660B	212267
180-66618-22	SSHS-B752-SUB-0-2	Total/NA	Solid	3660B	212267
180-66618-24	PS-FD-12	Total/NA	Solid	3660B	212267
180-66618-31	SSHS-B746-SUB-0-2	Total/NA	Solid	3660B	212267
180-66618-33	SSHS-B745-SUB-0-2	Total/NA	Solid	3660B	212267
180-66618-36	PS-FD-13	Total/NA	Solid	3660B	212267
180-66618-38	SSHS-B761-SUB-2-4	Total/NA	Solid	3660B	212267
180-66618-39	SSHS-B756-SUB-2-4	Total/NA	Solid	3660B	212267
180-66618-40	SSHS-B757-SUB-2-4	Total/NA	Solid	3660B	212267
180-66618-41	SSHS-B758-SUB-0-2	Total/NA	Solid	3660B	212267
180-66618-53	SSHS-B751-SUB-0-2	Total/NA	Solid	3660B	212267
180-66618-55	SSHS-B759-SUB-0-2	Total/NA	Solid	3660B	212267
180-66618-57	PS-FD-14	Total/NA	Solid	3660B	212267
MB 180-212216/1-C	Method Blank	Total/NA	Solid	3660B	212267
LCS 180-212216/2-C	Lab Control Sample	Total/NA	Solid	3660B	212267
180-66618-31 MS	SSHS-B746-SUB-0-2	Total/NA	Solid	3660B	212267
180-66618-31 MSD	SSHS-B746-SUB-0-2	Total/NA	Solid	3660B	212267
180-66618-41 MS	SSHS-B758-SUB-0-2	Total/NA	Solid	3660B	212267
180-66618-41 MSD	SSHS-B758-SUB-0-2	Total/NA	Solid	3660B	212267

GC Semi VOA (Continued)

Analysis Batch: 212369

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-66618-55	SSHS-B759-SUB-0-2	Total/NA	Solid	8082A	212268
180-66618-57	PS-FD-14	Total/NA	Solid	8082A	212268

General Chemistry

Analysis Batch: 212157

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-66618-1	SSHS-B750-SUB-0-2	Total/NA	Solid	2540G	
180-66618-3	SSHS-B747-SUB-0-2	Total/NA	Solid	2540G	
180-66618-5	SSHS-B748-SUB-0-2	Total/NA	Solid	2540G	
180-66618-7	SSHS-B749-SUB-0-2	Total/NA	Solid	2540G	
180-66618-12	PS-FD-11	Total/NA	Solid	2540G	
180-66618-22	SSHS-B752-SUB-0-2	Total/NA	Solid	2540G	
180-66618-24	PS-FD-12	Total/NA	Solid	2540G	
180-66618-31	SSHS-B746-SUB-0-2	Total/NA	Solid	2540G	
180-66618-33	SSHS-B745-SUB-0-2	Total/NA	Solid	2540G	
180-66618-36	PS-FD-13	Total/NA	Solid	2540G	
180-66618-38	SSHS-B761-SUB-2-4	Total/NA	Solid	2540G	
180-66618-39	SSHS-B756-SUB-2-4	Total/NA	Solid	2540G	
180-66618-40	SSHS-B757-SUB-2-4	Total/NA	Solid	2540G	
180-66618-41	SSHS-B758-SUB-0-2	Total/NA	Solid	2540G	
180-66618-53	SSHS-B751-SUB-0-2	Total/NA	Solid	2540G	
180-66618-55	SSHS-B759-SUB-0-2	Total/NA	Solid	2540G	
180-66618-57	PS-FD-14	Total/NA	Solid	2540G	
180-66618-31 DU	SSHS-B746-SUB-0-2	Total/NA	Solid	2540G	

TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
phone 412.963.7058 fax 412.963.2468

Chain of Custody

180-66618 Chain of Custody

estAmerica
E LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☑Other:

estAmerica Laboratories, Inc.

Client Contact	Project Manager: Aron Krasnopoler	Site Contact: Jay Tho.	COC No:
Geosyntec Consultants	Tel/Fax: 401-381-4333	Lab Contact: Dave Dunlap	Carrier: FedEx	1 of 5 COCs
10211 Wincopin Circle, 4th Floor	Analysis Turnaround Time		Sampler: JT
Columbia, MD 21044	☐CALENDAR DAYS ☑WORKING DAYS		For Lab Use Only:
410-381-4333 Phone	TAT if different from Below _____		Walk-in Client:
410-381-4499 FAX	☐ 2 weeks		Lab Sampling:
Project Name: Former Sperry Remington Site - North	☐ 1 week		Job / SDG No.:
Site: Elmira	☐ 2 days		
P O # MN0832B	☑ 1 day		

RUSH

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	PCBs -8082A	Sample Specific Notes:
SSHS-B750-SUB-0-2	5/12/17	1145	C	S	2	N	N	X	
SSHS-B750-SUB-2-4		1145	C	S	2	N	N	X	HOLD
SSHS-B747-SUB-0-2		1155	C	S	2	N	N	X	
SSHS-B747-SUB-2-4		1155	C	S	2	N	N	X	HOLD
SSHS-B748-SUB-0-2		1205	C	S	2	N	N	X	
SSHS-B748-SUB-2-4		1205	C	S	2	N	N	X	HOLD
SSHS-B749-SUB-0-2		1210	C	S	2	N	N	X	
SSHS-B749-SUB-2-4		1210	C	S	2	N	N	X	HOLD
SSHS-B771-SUB-0-2		1215	C	S	2	N	N	X	HOLD
SSHS-B771-SUB-2-4		1215	C	S	2	N	N	X	HOLD
SSHS-B770-SUB-0-2		1220	C	S	2	N	N	X	HOLD
FB-FD-11	↓	X	C	S	2	N	N	X	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

1

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑Non-Hazard ☐Flammable ☐Skin Irritant ☐Poison B ☐Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐Return to Client ☑Disposal by Lab ☐Archive for_____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd:_____ Corr'd:_____ | Therm ID No.:_____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Jay Thompson Jay Rooks	Geosyntec	5/23/17 1830	Thomas Jay	TAP	5/24/17 915
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Form No. CA-C-WI-002, Rev. 4.3, dated 12/05/2013

TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
phone 412.963.7058 fax 412.963.2468

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☑Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Aron Krasnopoler	Site Contact: Jay Thompson	Date: 5/22/17	COC No:
Geosyntec Consultants	Tel/Fax: 401-381-4333	Lab Contact: Dave Dunlap	Carrier: FedEx	2 of 3 COCs
10211 Wincopin Circle, 4th Floor	Analysis Turnaround Time			Sampler: JT
Columbia, MD 21044	☐CALENDAR DAYS ☑WORKING DAYS			For Lab Use Only:
410-381-4333 Phone	TAT if different from Below _____			Walk-in Client:
410-381-4499 FAX	☐ 2 weeks			Lab Sampling:
Project Name: Former Sperry Remington Site - North	☐ 1 week			
Site: Elmira	☐ 2 days			Job / SDG No.:
P O # MN0832B	☑ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	PCBs -8082A	Sample Specific Notes:
SS HS-B770-SUB-2-4	5/22/17	1220	C	S	2	N	N	X	HOLD
SS HS-B769-SUB-0-2	5/22/17	1225	C	S	2	N	N	X	HOLD
SS HS-B764-SUB-2-4		1225	C	S	2	N	N	X	HOLD
SS HS-B768-SUB-0-2		1230	C	S	2	N	N	X	HOLD
SS HS-B768-SUB-2-4		1230	C	S	2	N	N	X	HOLD
SS HS-B767-SUB-0-2		1320	C	S	2	N	N	X	HOLD
SS HS-B767-SUB-2-4		1320	C	S	2	N	N	X	HOLD
SS HS-B765-SUB-0-2		1325	C	S	2	N	N	X	HOLD
SS HS-B765-SUB-2-4		1325	C	S	2	N	N	X	HOLD
SS HS-B752-SUB-0-2		1330	C	S	2	N	N	X	
SS HS-B752-SUB-2-4		1330	C	S	2	N	N	X	HOLD
DS-FD-2	↓	X	C	S	2	N	N	X	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑Non-Hazard ☐Flammable ☐Skin Irritant ☐Poison B ☐Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐Return to Client ☑Disposal by Lab ☐Archive for_____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temp. (°C): Obs'd:_____ Corr'd:_____ Therm ID No.:_____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Jay Thompson	Geosyntec	5/23/17 1830	Alexander Ong	TAP	5/24/17 915
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Form No. CA-C-WI-002, Rev. 4.3, dated 12/05/2013

5/26/2017

TestAmerica Pittsburgh
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Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☑Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Aron Krasnopoler	Site Contact: Jay Thompson	Date: 5/22/17	COC No:
Geosyntec Consultants	Tel/Fax: 401-381-4333	Lab Contact: Dave Dunlap	Carrier: FedEx	3 of 5 COCs
10211 Wincopin Circle, 4th Floor	Analysis Turnaround Time			Sampler: JT
Columbia, MD 21044	☐CALENDAR DAYS ☑WORKING DAYS			For Lab Use Only:
410-381-4333 Phone	TAT if different from Below _____			Walk-in Client:
410-381-4499 FAX	☐ 2 weeks			Lab Sampling:
Project Name: Former Sperry Remington Site - North	☐ 1 week			
Site: Elmira	☐ 2 days			Job / SDG No.:
P O # MN0832B	☑ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	PCBs - 8082A	Sample Specific Notes:
SSHS-B766-SUB-0-2	5/22/17	1335	C	S	2	N	N	X	HOLD
SSHS-B766-SUB-2-4		1335	C	S	2	N	N	X	HOLD
SSHS-B772-SUB-0-2		1345	C	S	2	N	N	X	HOLD
SSHS-B772-SUB-2-4		1345	C	S	2	N	N	X	HOLD
SSHS-B773-SUB-0-2		1350	C	S	2	N	N	X	HOLD
SSHS-B773-SUB-2-4		1350	C	S	2	N	N	X	HOLD
SSHS-B746-SUB-0-2		1355	C	S	4	N	Y	X	PS-MS/MSD -7
SSHS-B746-SUB-2-4		1355	C	S	2	N	N	X	HOLD
SSHS-B745-SUB-0-2		1405	C	S	2	N	N	X	
SSHS-B745-SUB-2-4		1405	C	S	2	N	N	X	HOLD
SSHS-B764-SUB-0-2		1500	C	S	2	N	N	X	HOLD
PS-FD-13	↓	X	C	S	2	N	N	X	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____ | 1

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑Non-Hazard ☐Flammable ☐Skin Irritant ☐Poison B ☐Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐Return to Client ☑Disposal by Lab ☐Archive for_____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd:_____ Corr'd:_____ Therm ID No.:_____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Jay Thompson	Geosyntec	5/22/17 1830		TAP	5/24/17 915
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Form No. CA-C-WI-002, Rev. 4.3, dated 12/05/2013

TestAmerica Pittsburgh
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Pittsburgh, PA 15238
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Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☑Other:

Client Contact	Project Manager: Aron Krasnopoler	Site Contact: Jay Thompson	Date: 5/22/17	COC No:
Geosyntec Consultants	Tel/Fax: 401-381-4333	Lab Contact: Dave Dunlap	Carrier: FedEx	4 of 5 COCs
10211 Wincopin Circle, 4th Floor	Analysis Turnaround Time			Sampler: JT
Columbia, MD 21044	☐CALENDAR DAYS ☑WORKING DAYS			For Lab Use Only:
410-381-4333 Phone	TAT if different from Below ____			Walk-in Client:
410-381-4499 FAX	☐ 2 weeks			Lab Sampling:
Project Name: Former Sperry Remington Site - North	☐ 1 week			Job / SDG No.:
Site: Elmira	☐ 2 days			
P O # MN0832B	☑ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	PCBs -8082A	Sample Specific Notes:
SS HS-B764-SUB-2-4	5/22/17	1500	C	S	2	N	N	X	HOLD
SSHS-B760-SUB-2-4		1505	C	S	2	N	N	X	
SSHS-B760 756-SUB-2-4		1510	C	S	2	N	N	X	
SSHS-B757-SUB-2-4		1515	C	S	2	N	N	X	
SSHS-B758-SUB-0-2		1520	C	S	4	N	X	X	B-MS/MSD-8
SSHS-B758-SUB-2-4		1522	C	S	2	N	N	X	HOLD
SS HS-B774-SUB-0-2		1525	C	S	2	N	N	X	HOLD
SSHS-B774-SUB-2-4		1535	C	S	2	N	N	X	HOLD
SSHS-B775-SUB-0-2 5/22/17		1530	C	S	2	N	N	X	HOLD
SSHS-B775-SUB-2-4		1530	C	S	2	N	N	X	HOLD
SSHS-B776-SUB-0-2		1535	C	S	2	N	N	X	HOLD
SSHS-B776-SUB-2-4	↓	1535	C	S	2	N	N	X	HOLD

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 6=NaOH; 6= Other ____ | 1

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑Non-Hazard ☐Flammable ☐Skin Irritant ☐Poison B ☐Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐Return to Client ☑Disposal by Lab ☐Archive for ____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐Yes ☐No	Custody Seal No.:		Cooler Temp. (°C): Obs'd: ____ Corr'd: ____		Therm ID No.: ____
Relinquished by: Jay Thompson	Company: Goosmk	Date/Time: 5/23/17 1800	Received by: Shawn Jay	Company: THP	Date/Time: 5/24/17 915
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Form No. CA-C-WI-002, Rev. 4.3, dated 12/05/2013

5/26/2017

TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
phone 412.963.7058 fax 412.963.2468

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☑Other:

Client Contact	Project Manager: Aron Krasnopoler	Site Contact: Jay Thompson	Date: 5/22/17	COC No:
Geosyntec Consultants	Tel/Fax: 401-381-4333	Lab Contact: Dave Dunlap	Carrier: FedEx	5 of 5 COCs
10211 Wincopin Circle, 4th Floor	Analysis Turnaround Time			Sampler: JL
Columbia, MD 21044	☐CALENDAR DAYS ☑WORKING DAYS			For Lab Use Only:
410-381-4333 Phone	TAT if different from Below ____			Walk-in Client:
410-381-4499 FAX	☐ 2 weeks			Lab Sampling:
Project Name: Former Sperry Remington Site - North	☐ 1 week			Job / SDG No.:
Site: Elmira	☐ 2 days			
P O # MN0832B	☑ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	PCBs -8082A	Sample Specific Notes:
SSHS-B780-SB-0-2	5/22/17	1600	C	S	2	N	N	X	HOLD
SSHS-B780-SB-2-4		1600	C	S	2	N	N	X	HOLD
SSHS-B779-SB-0-2		1605	C	S	2	N	N	X	HOLD
SSHS-B779-SB-2-4		1605	C	S	2	N	N	X	HOLD
SSHS-B751-SB-0-2		1610	C	S	2	N	N	X	
SSHS-B751-SB-2-4		1610	C	S	2	N	N	X	HOLD
SSHS-B759-SB-0-2		1615	C	S	2	N	N	X	
SSHS-B759-SB-2-4		1615	C	S	2	N	N	X	HOLD
FB-FD-14	↓	X	C	S	2	N	N	X	
									JT 5/22/17

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____ 1

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑Non-Hazard ☐Flammable ☐Skin Irritant ☐Poison B ☐Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐Return to Client ☑Disposal by Lab ☐Archive for____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd:____ Corr'd:____ Therm ID No.:____

Relinquished by: Jay Thompson	Company: Geosyntec	Date/Time: 5/23/17	Received by: Thomas Ang	Company: TAP	Date/Time: 5/24/17 915
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Form No. CA-C-WI-002, Rev. 4.3, dated 12/05/2013

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 180-66618-1

Login Number: 66618
List Number: 1
Creator: Say, Thomas C

List Source: TestAmerica Pittsburgh

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

TestAmerica Job ID: 180-66622-1
Client Project/Site: Former Sperry Remington Site - North

For:
Geosyntec Consultants, Inc.
10211 Wincopin Circle
4'th Floor
Columbia, Maryland 21044

Attn: Mr. Aron Krasnopoler

Authorized for release by:
6/7/2017 12:54:29 PM

David Dunlap, Senior Project Manager
(412)963-2432
david.dunlap@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Job ID: 180-66622-1

Laboratory: TestAmerica Pittsburgh

Narrative

Job Narrative
180-66622-1

Comments
This report contains the results of 'extract/hold' samples SSHS-B777-SUB-0-2 (180-66622-28) and SSHS-B777-SUB-2-4 (180-66622-29) taken off hold on 6/3/17.

Receipt
The samples were received on 5/24/2017 9:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 5 coolers at receipt time were 1.4º C, 2.1º C, 2.8º C, 4.0º C and 4.6º C.

GC Semi VOA
Method(s) 8082A: The following samples were diluted to bring the concentration of target analytes within the calibration range: SSHS-B791-SUB-6-8 (180-66622-30) and PS-FD-16 (180-66622-36). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Definitions/Glossary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North

TestAmerica Job ID: 180-66622-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc. TestAmerica Job ID: 180-66622-1
Project/Site: Former Sperry Remington Site - North

Laboratory: TestAmerica Pittsburgh

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	11182	03-31-18

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
2540G		Solid	Percent Moisture
2540G		Solid	Percent Solids

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North

TestAmerica Job ID: 180-66622-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-66622-19	SSHS-B753-SUB-2-4	Solid	05/23/17 08:40	05/24/17 09:15
180-66622-20	SSHS-B763-SUB-2-4	Solid	05/23/17 08:45	05/24/17 09:15
180-66622-21	SSHS-B781-SUB-2-4	Solid	05/23/17 08:50	05/24/17 09:15
180-66622-22	SSHS-B760-SUB-2-4	Solid	05/23/17 08:55	05/24/17 09:15
180-66622-23	SSHS-B754-SUB-2-4	Solid	05/23/17 09:00	05/24/17 09:15
180-66622-24	SSHS-B755-SUB-2-4	Solid	05/23/17 09:05	05/24/17 09:15
180-66622-25	SSHS-B762-SUB-2-4	Solid	05/23/17 09:10	05/24/17 09:15
180-66622-28	SSHS-B777-SUB-0-2	Solid	05/23/17 09:15	05/24/17 09:15
180-66622-29	SSHS-B777-SUB-2-4	Solid	05/23/17 09:15	05/24/17 09:15
180-66622-30	SSHS-B791-SUB-6-8	Solid	05/23/17 13:15	05/24/17 09:15
180-66622-32	SSHS-B820-SUB-4-6	Solid	05/23/17 13:25	05/24/17 09:15
180-66622-33	SSHS-B820-SUB-6-8	Solid	05/23/17 13:25	05/24/17 09:15
180-66622-35	PS-FD-15	Solid	05/23/17 00:00	05/24/17 09:15
180-66622-36	PS-FD-16	Solid	05/23/17 00:00	05/24/17 09:15
180-66622-37	PS-FD-17	Solid	05/23/17 00:00	05/24/17 09:15

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North

TestAmerica Job ID: 180-66622-1

Method	Method Description	Protocol	Laboratory
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL PIT
2540G	SM 2540G	SM22	TAL PIT

Protocol References:

SM22 = SM22

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North

TestAmerica Job ID: 180-66622-1

Client Sample ID: SSHS-B753-SUB-2-4
Lab Sample ID: 180-66622-19
Date Collected: 05/23/17 08:40
Matrix: Solid
Date Received: 05/24/17 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			212327	05/25/17 16:57	JJZ	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B753-SUB-2-4
Lab Sample ID: 180-66622-19
Date Collected: 05/23/17 08:40
Matrix: Solid
Date Received: 05/24/17 09:15
Percent Solids: 91.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.2 g	20.0 mL	212272	05/25/17 10:58	CBY	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	212364	05/26/17 04:17	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	212365	05/26/17 04:18	JMO	TAL PIT
Total/NA	Analysis	8082A		1			212369	05/26/17 07:49	JMO	TAL PIT
	Instrument ID: CHGC16									

Client Sample ID: SSHS-B763-SUB-2-4
Lab Sample ID: 180-66622-20
Date Collected: 05/23/17 08:45
Matrix: Solid
Date Received: 05/24/17 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			212327	05/25/17 16:57	JJZ	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B763-SUB-2-4
Lab Sample ID: 180-66622-20
Date Collected: 05/23/17 08:45
Matrix: Solid
Date Received: 05/24/17 09:15
Percent Solids: 93.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.2 g	20.0 mL	212272	05/25/17 10:58	CBY	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	212364	05/26/17 04:17	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	212365	05/26/17 04:18	JMO	TAL PIT
Total/NA	Analysis	8082A		1			212369	05/26/17 08:11	JMO	TAL PIT
	Instrument ID: CHGC16									

Client Sample ID: SSHS-B781-SUB-2-4
Lab Sample ID: 180-66622-21
Date Collected: 05/23/17 08:50
Matrix: Solid
Date Received: 05/24/17 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			212327	05/25/17 16:57	JJZ	TAL PIT
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North

TestAmerica Job ID: 180-66622-1

Client Sample ID: SSHS-B781-SUB-2-4
Lab Sample ID: 180-66622-21
Date Collected: 05/23/17 08:50
Matrix: Solid
Date Received: 05/24/17 09:15
Percent Solids: 94.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	212272	05/25/17 10:58	CBY	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	212364	05/26/17 04:17	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	212365	05/26/17 04:18	JMO	TAL PIT
Total/NA	Analysis	8082A		1			212369	05/26/17 08:33	JMO	TAL PIT
	Instrument ID: CHGC16									

Client Sample ID: SSHS-B760-SUB-2-4
Lab Sample ID: 180-66622-22
Date Collected: 05/23/17 08:55
Matrix: Solid
Date Received: 05/24/17 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			212327	05/25/17 16:57	JJZ	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B760-SUB-2-4
Lab Sample ID: 180-66622-22
Date Collected: 05/23/17 08:55
Matrix: Solid
Date Received: 05/24/17 09:15
Percent Solids: 94.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	212272	05/25/17 10:58	CBY	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	212364	05/26/17 04:17	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	212365	05/26/17 04:18	JMO	TAL PIT
Total/NA	Analysis	8082A		1			212369	05/26/17 08:54	JMO	TAL PIT
	Instrument ID: CHGC16									

Client Sample ID: SSHS-B754-SUB-2-4
Lab Sample ID: 180-66622-23
Date Collected: 05/23/17 09:00
Matrix: Solid
Date Received: 05/24/17 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			212334	05/25/17 17:19	JJZ	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B754-SUB-2-4
Lab Sample ID: 180-66622-23
Date Collected: 05/23/17 09:00
Matrix: Solid
Date Received: 05/24/17 09:15
Percent Solids: 89.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	212272	05/25/17 10:58	CBY	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	212364	05/26/17 04:17	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	212365	05/26/17 04:18	JMO	TAL PIT
Total/NA	Analysis	8082A		1			212369	05/26/17 09:15	JMO	TAL PIT
	Instrument ID: CHGC16									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North

TestAmerica Job ID: 180-66622-1

Client Sample ID: SSHS-B755-SUB-2-4
Date Collected: 05/23/17 09:05
Date Received: 05/24/17 09:15

Lab Sample ID: 180-66622-24
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			212334	05/25/17 17:19	JJZ	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B755-SUB-2-4
Date Collected: 05/23/17 09:05
Date Received: 05/24/17 09:15

Lab Sample ID: 180-66622-24
Matrix: Solid
Percent Solids: 90.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	212272	05/25/17 10:58	CBY	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	212364	05/26/17 04:17	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	212365	05/26/17 04:18	JMO	TAL PIT
Total/NA	Analysis	8082A		1			212369	05/26/17 09:36	JMO	TAL PIT
	Instrument ID: CHGC16									

Client Sample ID: SSHS-B762-SUB-2-4
Date Collected: 05/23/17 09:10
Date Received: 05/24/17 09:15

Lab Sample ID: 180-66622-25
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			212327	05/25/17 16:57	JJZ	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B762-SUB-2-4
Date Collected: 05/23/17 09:10
Date Received: 05/24/17 09:15

Lab Sample ID: 180-66622-25
Matrix: Solid
Percent Solids: 95.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	212272	05/25/17 10:58	CBY	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	212364	05/26/17 04:17	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	212365	05/26/17 04:18	JMO	TAL PIT
Total/NA	Analysis	8082A		1			212369	05/26/17 09:57	JMO	TAL PIT
	Instrument ID: CHGC16									

Client Sample ID: SSHS-B777-SUB-0-2
Date Collected: 05/23/17 09:15
Date Received: 05/24/17 09:15

Lab Sample ID: 180-66622-28
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			212841	05/31/17 16:46	RSK	TAL PIT
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North

TestAmerica Job ID: 180-66622-1

Client Sample ID: SSHS-B777-SUB-0-2
Lab Sample ID: 180-66622-28
Date Collected: 05/23/17 09:15
Matrix: Solid
Date Received: 05/24/17 09:15
Percent Solids: 90.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.4 g	20.0 mL	212867	06/01/17 04:25	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	212929	06/01/17 11:15	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	212930	06/01/17 11:16	JMO	TAL PIT
Total/NA	Analysis	8082A		1			212874	06/02/17 11:53	JMO	TAL PIT
	Instrument ID: CHGC16									

Client Sample ID: SSHS-B777-SUB-2-4
Lab Sample ID: 180-66622-29
Date Collected: 05/23/17 09:15
Matrix: Solid
Date Received: 05/24/17 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			212841	05/31/17 16:46	RSK	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B777-SUB-2-4
Lab Sample ID: 180-66622-29
Date Collected: 05/23/17 09:15
Matrix: Solid
Date Received: 05/24/17 09:15
Percent Solids: 88.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.2 g	20.0 mL	212867	06/01/17 04:25	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	212929	06/01/17 11:15	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	212930	06/01/17 11:16	JMO	TAL PIT
Total/NA	Analysis	8082A		1			212874	06/02/17 12:13	JMO	TAL PIT
	Instrument ID: CHGC16									

Client Sample ID: SSHS-B791-SUB-6-8
Lab Sample ID: 180-66622-30
Date Collected: 05/23/17 13:15
Matrix: Solid
Date Received: 05/24/17 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			212327	05/25/17 16:57	JJZ	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B791-SUB-6-8
Lab Sample ID: 180-66622-30
Date Collected: 05/23/17 13:15
Matrix: Solid
Date Received: 05/24/17 09:15
Percent Solids: 94.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	212272	05/25/17 10:58	CBY	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	212364	05/26/17 04:17	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	212365	05/26/17 04:18	JMO	TAL PIT
Total/NA	Analysis	8082A		20			212369	05/26/17 12:04	JMO	TAL PIT
	Instrument ID: CHGC16									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North

TestAmerica Job ID: 180-66622-1

Client Sample ID: SSHS-B820-SUB-4-6
Lab Sample ID: 180-66622-32
Date Collected: 05/23/17 13:25
Matrix: Solid
Date Received: 05/24/17 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			212327	05/25/17 16:57	JJZ	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B820-SUB-4-6
Lab Sample ID: 180-66622-32
Date Collected: 05/23/17 13:25
Matrix: Solid
Date Received: 05/24/17 09:15
Percent Solids: 87.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	212272	05/25/17 10:58	CBY	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	212364	05/26/17 04:17	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	212365	05/26/17 04:18	JMO	TAL PIT
Total/NA	Analysis	8082A		1			212369	05/26/17 10:39	JMO	TAL PIT
	Instrument ID: CHGC16									

Client Sample ID: SSHS-B820-SUB-6-8
Lab Sample ID: 180-66622-33
Date Collected: 05/23/17 13:25
Matrix: Solid
Date Received: 05/24/17 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			212334	05/25/17 17:19	JJZ	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B820-SUB-6-8
Lab Sample ID: 180-66622-33
Date Collected: 05/23/17 13:25
Matrix: Solid
Date Received: 05/24/17 09:15
Percent Solids: 84.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.2 g	20.0 mL	212414	05/26/17 11:00	CBY	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	212527	05/27/17 09:21	DFE	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	212528	05/27/17 09:22	DFE	TAL PIT
Total/NA	Analysis	8082A		1			212572	05/28/17 11:29	JMO	TAL PIT
	Instrument ID: CHGC16									

Client Sample ID: PS-FD-15
Lab Sample ID: 180-66622-35
Date Collected: 05/23/17 00:00
Matrix: Solid
Date Received: 05/24/17 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			212334	05/25/17 17:19	JJZ	TAL PIT
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North

TestAmerica Job ID: 180-66622-1

Client Sample ID: PS-FD-15
Date Collected: 05/23/17 00:00
Date Received: 05/24/17 09:15

Lab Sample ID: 180-66622-35
Matrix: Solid
Percent Solids: 90.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.1 g	20.0 mL	212272	05/25/17 10:58	CBY	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	212364	05/26/17 04:17	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	212365	05/26/17 04:18	JMO	TAL PIT
Total/NA	Analysis	8082A		1			212369	05/26/17 11:00	JMO	TAL PIT
	Instrument ID: CHGC16									

Client Sample ID: PS-FD-16
Date Collected: 05/23/17 00:00
Date Received: 05/24/17 09:15

Lab Sample ID: 180-66622-36
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			212334	05/25/17 17:19	JJZ	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: PS-FD-16
Date Collected: 05/23/17 00:00
Date Received: 05/24/17 09:15

Lab Sample ID: 180-66622-36
Matrix: Solid
Percent Solids: 91.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	212272	05/25/17 10:58	CBY	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	212364	05/26/17 04:17	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	212365	05/26/17 04:18	JMO	TAL PIT
Total/NA	Analysis	8082A		20			212369	05/26/17 12:24	JMO	TAL PIT
	Instrument ID: CHGC16									

Client Sample ID: PS-FD-17
Date Collected: 05/23/17 00:00
Date Received: 05/24/17 09:15

Lab Sample ID: 180-66622-37
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			212334	05/25/17 17:19	JJZ	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: PS-FD-17
Date Collected: 05/23/17 00:00
Date Received: 05/24/17 09:15

Lab Sample ID: 180-66622-37
Matrix: Solid
Percent Solids: 87.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	212272	05/25/17 10:58	CBY	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	212364	05/26/17 04:17	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	212365	05/26/17 04:18	JMO	TAL PIT
Total/NA	Analysis	8082A		1			212369	05/26/17 11:43	JMO	TAL PIT
	Instrument ID: CHGC16									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North

TestAmerica Job ID: 180-66622-1

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Analyst References:

Lab: TAL PIT

Batch Type: Cleanup

DFE = David Eppinger

JMO = John Oravec

Batch Type: Prep

BAP = Brian Pino

CBY = Charles Yushinski

Batch Type: Analysis

JJZ = Joseph Zubrow

JMO = John Oravec

RSK = Robert Kurtz

Client Sample ID: SSHS-B753-SUB-2-4

Lab Sample ID: 180-66622-19
Date Collected: 05/23/17 08:40
Matrix: Solid
Date Received: 05/24/17 09:15
Percent Solids: 91.3

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		18	9.6	ug/Kg	☼	05/25/17 10:58	05/26/17 07:49	1
PCB-1221	ND		18	9.3	ug/Kg	☼	05/25/17 10:58	05/26/17 07:49	1
PCB-1232	ND		18	7.1	ug/Kg	☼	05/25/17 10:58	05/26/17 07:49	1
PCB-1242	ND		18	14	ug/Kg	☼	05/25/17 10:58	05/26/17 07:49	1
PCB-1248	**1300**		18	8.6	ug/Kg	☼	05/25/17 10:58	05/26/17 07:49	1
PCB-1254	**780**		18	7.9	ug/Kg	☼	05/25/17 10:58	05/26/17 07:49	1
PCB-1260	**220**		18	12	ug/Kg	☼	05/25/17 10:58	05/26/17 07:49	1
PCB-1262	ND		18	13	ug/Kg	☼	05/25/17 10:58	05/26/17 07:49	1
PCB-1268	ND		18	5.5	ug/Kg	☼	05/25/17 10:58	05/26/17 07:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*87*		*23 - 150*	*05/25/17 10:58*	*05/26/17 07:49*	*1*
DCB Decachlorobiphenyl (Surr)	*99*		*23 - 150*	*05/25/17 10:58*	*05/26/17 07:49*	*1*
Tetrachloro-m-xylene (Surr)	*86*		*27 - 138*	*05/25/17 10:58*	*05/26/17 07:49*	*1*
Tetrachloro-m-xylene (Surr)	*84*		*27 - 138*	*05/25/17 10:58*	*05/26/17 07:49*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**8.7**		0.1	0.1	%			05/25/17 16:57	1
Percent Solids	**91.3**		0.1	0.1	%			05/25/17 16:57	1

Client Sample ID: SSHS-B763-SUB-2-4

Lab Sample ID: 180-66622-20
Date Collected: 05/23/17 08:45
Matrix: Solid
Date Received: 05/24/17 09:15
Percent Solids: 93.6

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		18	9.3	ug/Kg	☼	05/25/17 10:58	05/26/17 08:11	1
PCB-1221	ND		18	9.1	ug/Kg	☼	05/25/17 10:58	05/26/17 08:11	1
PCB-1232	ND		18	7.0	ug/Kg	☼	05/25/17 10:58	05/26/17 08:11	1
PCB-1242	ND		18	14	ug/Kg	☼	05/25/17 10:58	05/26/17 08:11	1
PCB-1248	ND		18	8.4	ug/Kg	☼	05/25/17 10:58	05/26/17 08:11	1
PCB-1254	ND		18	7.7	ug/Kg	☼	05/25/17 10:58	05/26/17 08:11	1
PCB-1260	ND		18	12	ug/Kg	☼	05/25/17 10:58	05/26/17 08:11	1
PCB-1262	ND		18	13	ug/Kg	☼	05/25/17 10:58	05/26/17 08:11	1
PCB-1268	ND		18	5.4	ug/Kg	☼	05/25/17 10:58	05/26/17 08:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*73*		*23 - 150*	*05/25/17 10:58*	*05/26/17 08:11*	*1*
DCB Decachlorobiphenyl (Surr)	*84*		*23 - 150*	*05/25/17 10:58*	*05/26/17 08:11*	*1*
Tetrachloro-m-xylene (Surr)	*73*		*27 - 138*	*05/25/17 10:58*	*05/26/17 08:11*	*1*
Tetrachloro-m-xylene (Surr)	*78*		*27 - 138*	*05/25/17 10:58*	*05/26/17 08:11*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**6.4**		0.1	0.1	%			05/25/17 16:57	1
Percent Solids	**93.6**		0.1	0.1	%			05/25/17 16:57	1

Client Sample ID: SSHS-B781-SUB-2-4

Lab Sample ID: 180-66622-21

Date Collected: 05/23/17 08:50
Matrix: Solid
Date Received: 05/24/17 09:15
Percent Solids: 94.4

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		18	9.4	ug/Kg	☼	05/25/17 10:58	05/26/17 08:33	1
PCB-1221	ND		18	9.1	ug/Kg	☼	05/25/17 10:58	05/26/17 08:33	1
PCB-1232	ND		18	7.0	ug/Kg	☼	05/25/17 10:58	05/26/17 08:33	1
PCB-1242	ND		18	14	ug/Kg	☼	05/25/17 10:58	05/26/17 08:33	1
PCB-1248	**1400**		18	8.4	ug/Kg	☼	05/25/17 10:58	05/26/17 08:33	1
PCB-1254	**890**		18	7.7	ug/Kg	☼	05/25/17 10:58	05/26/17 08:33	1
PCB-1260	**240**		18	12	ug/Kg	☼	05/25/17 10:58	05/26/17 08:33	1
PCB-1262	ND		18	13	ug/Kg	☼	05/25/17 10:58	05/26/17 08:33	1
PCB-1268	ND		18	5.4	ug/Kg	☼	05/25/17 10:58	05/26/17 08:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*83*		*23 - 150*	*05/25/17 10:58*	*05/26/17 08:33*	*1*
DCB Decachlorobiphenyl (Surr)	*96*		*23 - 150*	*05/25/17 10:58*	*05/26/17 08:33*	*1*
Tetrachloro-m-xylene (Surr)	*81*		*27 - 138*	*05/25/17 10:58*	*05/26/17 08:33*	*1*
Tetrachloro-m-xylene (Surr)	*83*		*27 - 138*	*05/25/17 10:58*	*05/26/17 08:33*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**5.6**		0.1	0.1	%			05/25/17 16:57	1
Percent Solids	**94.4**		0.1	0.1	%			05/25/17 16:57	1

Client Sample ID: SSHS-B760-SUB-2-4

Lab Sample ID: 180-66622-22

Date Collected: 05/23/17 08:55
Matrix: Solid
Date Received: 05/24/17 09:15
Percent Solids: 94.0

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		18	9.4	ug/Kg	☼	05/25/17 10:58	05/26/17 08:54	1
PCB-1221	ND		18	9.2	ug/Kg	☼	05/25/17 10:58	05/26/17 08:54	1
PCB-1232	ND		18	7.0	ug/Kg	☼	05/25/17 10:58	05/26/17 08:54	1
PCB-1242	ND		18	14	ug/Kg	☼	05/25/17 10:58	05/26/17 08:54	1
PCB-1248	**220**		18	8.5	ug/Kg	☼	05/25/17 10:58	05/26/17 08:54	1
PCB-1254	**150**		18	7.8	ug/Kg	☼	05/25/17 10:58	05/26/17 08:54	1
PCB-1260	**49**		18	12	ug/Kg	☼	05/25/17 10:58	05/26/17 08:54	1
PCB-1262	ND		18	13	ug/Kg	☼	05/25/17 10:58	05/26/17 08:54	1
PCB-1268	ND		18	5.4	ug/Kg	☼	05/25/17 10:58	05/26/17 08:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*88*		*23 - 150*	*05/25/17 10:58*	*05/26/17 08:54*	*1*
DCB Decachlorobiphenyl (Surr)	*95*		*23 - 150*	*05/25/17 10:58*	*05/26/17 08:54*	*1*
Tetrachloro-m-xylene (Surr)	*87*		*27 - 138*	*05/25/17 10:58*	*05/26/17 08:54*	*1*
Tetrachloro-m-xylene (Surr)	*86*		*27 - 138*	*05/25/17 10:58*	*05/26/17 08:54*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**6.0**		0.1	0.1	%			05/25/17 16:57	1
Percent Solids	**94.0**		0.1	0.1	%			05/25/17 16:57	1

Client Sample ID: SSHS-B754-SUB-2-4 — Lab Sample ID: 180-66622-23

Date Collected: 05/23/17 09:00 — **Matrix: Solid**
Date Received: 05/24/17 09:15 — **Percent Solids: 89.8**

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		19	9.8	ug/Kg	☼	05/25/17 10:58	05/26/17 09:15	1
PCB-1221	ND		19	9.6	ug/Kg	☼	05/25/17 10:58	05/26/17 09:15	1
PCB-1232	ND		19	7.3	ug/Kg	☼	05/25/17 10:58	05/26/17 09:15	1
PCB-1242	ND		19	15	ug/Kg	☼	05/25/17 10:58	05/26/17 09:15	1
PCB-1248	**1300**		19	8.9	ug/Kg	☼	05/25/17 10:58	05/26/17 09:15	1
PCB-1254	**790**		19	8.1	ug/Kg	☼	05/25/17 10:58	05/26/17 09:15	1
PCB-1260	**230**		19	12	ug/Kg	☼	05/25/17 10:58	05/26/17 09:15	1
PCB-1262	ND		19	13	ug/Kg	☼	05/25/17 10:58	05/26/17 09:15	1
PCB-1268	ND		19	5.6	ug/Kg	☼	05/25/17 10:58	05/26/17 09:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*88*		*23 - 150*	*05/25/17 10:58*	*05/26/17 09:15*	*1*
DCB Decachlorobiphenyl (Surr)	*97*		*23 - 150*	*05/25/17 10:58*	*05/26/17 09:15*	*1*
Tetrachloro-m-xylene (Surr)	*90*		*27 - 138*	*05/25/17 10:58*	*05/26/17 09:15*	*1*
Tetrachloro-m-xylene (Surr)	*91*		*27 - 138*	*05/25/17 10:58*	*05/26/17 09:15*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**10.1**		0.1	0.1	%			05/25/17 17:19	1
Percent Solids	**89.9**		0.1	0.1	%			05/25/17 17:19	1

Client Sample ID: SSHS-B755-SUB-2-4 — Lab Sample ID: 180-66622-24

Date Collected: 05/23/17 09:05 — **Matrix: Solid**
Date Received: 05/24/17 09:15 — **Percent Solids: 90.6**

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		18	9.8	ug/Kg	☼	05/25/17 10:58	05/26/17 09:36	1
PCB-1221	ND		18	9.5	ug/Kg	☼	05/25/17 10:58	05/26/17 09:36	1
PCB-1232	ND		18	7.3	ug/Kg	☼	05/25/17 10:58	05/26/17 09:36	1
PCB-1242	ND		18	15	ug/Kg	☼	05/25/17 10:58	05/26/17 09:36	1
PCB-1248	**970**		18	8.8	ug/Kg	☼	05/25/17 10:58	05/26/17 09:36	1
PCB-1254	**620**		18	8.1	ug/Kg	☼	05/25/17 10:58	05/26/17 09:36	1
PCB-1260	**180**		18	12	ug/Kg	☼	05/25/17 10:58	05/26/17 09:36	1
PCB-1262	ND		18	13	ug/Kg	☼	05/25/17 10:58	05/26/17 09:36	1
PCB-1268	ND		18	5.6	ug/Kg	☼	05/25/17 10:58	05/26/17 09:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*76*		*23 - 150*	*05/25/17 10:58*	*05/26/17 09:36*	*1*
DCB Decachlorobiphenyl (Surr)	*88*		*23 - 150*	*05/25/17 10:58*	*05/26/17 09:36*	*1*
Tetrachloro-m-xylene (Surr)	*79*		*27 - 138*	*05/25/17 10:58*	*05/26/17 09:36*	*1*
Tetrachloro-m-xylene (Surr)	*78*		*27 - 138*	*05/25/17 10:58*	*05/26/17 09:36*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.4**		0.1	0.1	%			05/25/17 17:19	1
Percent Solids	**90.6**		0.1	0.1	%			05/25/17 17:19	1

Client Sample ID: SSHS-B762-SUB-2-4

Lab Sample ID: 180-66622-25

Date Collected: 05/23/17 09:10
Matrix: Solid
Date Received: 05/24/17 09:15
Percent Solids: 95.3

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		17	9.3	ug/Kg	☼	05/25/17 10:58	05/26/17 09:57	1
PCB-1221	ND		17	9.1	ug/Kg	☼	05/25/17 10:58	05/26/17 09:57	1
PCB-1232	ND		17	6.9	ug/Kg	☼	05/25/17 10:58	05/26/17 09:57	1
PCB-1242	ND		17	14	ug/Kg	☼	05/25/17 10:58	05/26/17 09:57	1
PCB-1248	**520**		17	8.3	ug/Kg	☼	05/25/17 10:58	05/26/17 09:57	1
PCB-1254	**430**		17	7.7	ug/Kg	☼	05/25/17 10:58	05/26/17 09:57	1
PCB-1260	**160**		17	12	ug/Kg	☼	05/25/17 10:58	05/26/17 09:57	1
PCB-1262	ND		17	13	ug/Kg	☼	05/25/17 10:58	05/26/17 09:57	1
PCB-1268	ND		17	5.3	ug/Kg	☼	05/25/17 10:58	05/26/17 09:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*78*		*23 - 150*	*05/25/17 10:58*	*05/26/17 09:57*	*1*
DCB Decachlorobiphenyl (Surr)	*86*		*23 - 150*	*05/25/17 10:58*	*05/26/17 09:57*	*1*
Tetrachloro-m-xylene (Surr)	*75*		*27 - 138*	*05/25/17 10:58*	*05/26/17 09:57*	*1*
Tetrachloro-m-xylene (Surr)	*75*		*27 - 138*	*05/25/17 10:58*	*05/26/17 09:57*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**4.7**		0.1	0.1	%			05/25/17 16:57	1
Percent Solids	**95.3**		0.1	0.1	%			05/25/17 16:57	1

Client Sample ID: SSHS-B777-SUB-0-2

Lab Sample ID: 180-66622-28

Date Collected: 05/23/17 09:15
Matrix: Solid
Date Received: 05/24/17 09:15
Percent Solids: 90.4

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		18	9.5	ug/Kg	☼	06/01/17 04:25	06/02/17 11:53	1
PCB-1221	ND		18	9.3	ug/Kg	☼	06/01/17 04:25	06/02/17 11:53	1
PCB-1232	ND		18	7.1	ug/Kg	☼	06/01/17 04:25	06/02/17 11:53	1
PCB-1242	ND		18	14	ug/Kg	☼	06/01/17 04:25	06/02/17 11:53	1
PCB-1248	**170**		18	8.6	ug/Kg	☼	06/01/17 04:25	06/02/17 11:53	1
PCB-1254	**97**		18	7.9	ug/Kg	☼	06/01/17 04:25	06/02/17 11:53	1
PCB-1260	**34**		18	12	ug/Kg	☼	06/01/17 04:25	06/02/17 11:53	1
PCB-1262	ND		18	13	ug/Kg	☼	06/01/17 04:25	06/02/17 11:53	1
PCB-1268	ND		18	5.5	ug/Kg	☼	06/01/17 04:25	06/02/17 11:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*68*		*23 - 150*	*06/01/17 04:25*	*06/02/17 11:53*	*1*
DCB Decachlorobiphenyl (Surr)	*78*		*23 - 150*	*06/01/17 04:25*	*06/02/17 11:53*	*1*
Tetrachloro-m-xylene (Surr)	*70*		*27 - 138*	*06/01/17 04:25*	*06/02/17 11:53*	*1*
Tetrachloro-m-xylene (Surr)	*77*		*27 - 138*	*06/01/17 04:25*	*06/02/17 11:53*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.6**		0.1	0.1	%			05/31/17 16:46	1
Percent Solids	**90.4**		0.1	0.1	%			05/31/17 16:46	1

Client Sample ID: SSHS-B777-SUB-2-4

Lab Sample ID: 180-66622-29
Date Collected: 05/23/17 09:15
Matrix: Solid
Date Received: 05/24/17 09:15
Percent Solids: 88.4

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		19	9.9	ug/Kg	☼	06/01/17 04:25	06/02/17 12:13	1
PCB-1221	ND		19	9.6	ug/Kg	☼	06/01/17 04:25	06/02/17 12:13	1
PCB-1232	ND		19	7.4	ug/Kg	☼	06/01/17 04:25	06/02/17 12:13	1
PCB-1242	ND		19	15	ug/Kg	☼	06/01/17 04:25	06/02/17 12:13	1
PCB-1248	ND		19	8.9	ug/Kg	☼	06/01/17 04:25	06/02/17 12:13	1
PCB-1254	ND		19	8.2	ug/Kg	☼	06/01/17 04:25	06/02/17 12:13	1
PCB-1260	ND		19	12	ug/Kg	☼	06/01/17 04:25	06/02/17 12:13	1
PCB-1262	ND		19	13	ug/Kg	☼	06/01/17 04:25	06/02/17 12:13	1
PCB-1268	ND		19	5.7	ug/Kg	☼	06/01/17 04:25	06/02/17 12:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*79*		*23 - 150*	*06/01/17 04:25*	*06/02/17 12:13*	*1*
DCB Decachlorobiphenyl (Surr)	*86*		*23 - 150*	*06/01/17 04:25*	*06/02/17 12:13*	*1*
Tetrachloro-m-xylene (Surr)	*76*		*27 - 138*	*06/01/17 04:25*	*06/02/17 12:13*	*1*
Tetrachloro-m-xylene (Surr)	*80*		*27 - 138*	*06/01/17 04:25*	*06/02/17 12:13*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**11.6**		0.1	0.1	%			05/31/17 16:46	1
Percent Solids	**88.4**		0.1	0.1	%			05/31/17 16:46	1

Client Sample ID: SSHS-B791-SUB-6-8

Lab Sample ID: 180-66622-30
Date Collected: 05/23/17 13:15
Matrix: Solid
Date Received: 05/24/17 09:15
Percent Solids: 94.1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		350	190	ug/Kg	☼	05/25/17 10:58	05/26/17 12:04	20
PCB-1221	ND		350	180	ug/Kg	☼	05/25/17 10:58	05/26/17 12:04	20
PCB-1232	ND		350	140	ug/Kg	☼	05/25/17 10:58	05/26/17 12:04	20
PCB-1242	ND		350	280	ug/Kg	☼	05/25/17 10:58	05/26/17 12:04	20
PCB-1248	**24000**		350	170	ug/Kg	☼	05/25/17 10:58	05/26/17 12:04	20
PCB-1254	**6600**		350	160	ug/Kg	☼	05/25/17 10:58	05/26/17 12:04	20
PCB-1260	**530**		350	240	ug/Kg	☼	05/25/17 10:58	05/26/17 12:04	20
PCB-1262	ND		350	250	ug/Kg	☼	05/25/17 10:58	05/26/17 12:04	20
PCB-1268	ND		350	110	ug/Kg	☼	05/25/17 10:58	05/26/17 12:04	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*97*		*23 - 150*	*05/25/17 10:58*	*05/26/17 12:04*	*20*
DCB Decachlorobiphenyl (Surr)	*121*		*23 - 150*	*05/25/17 10:58*	*05/26/17 12:04*	*20*
Tetrachloro-m-xylene (Surr)	*82*		*27 - 138*	*05/25/17 10:58*	*05/26/17 12:04*	*20*
Tetrachloro-m-xylene (Surr)	*110*		*27 - 138*	*05/25/17 10:58*	*05/26/17 12:04*	*20*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**5.9**		0.1	0.1	%			05/25/17 16:57	1
Percent Solids	**94.1**		0.1	0.1	%			05/25/17 16:57	1

Client Sample ID: SSHS-B820-SUB-4-6

Lab Sample ID: 180-66622-32

Date Collected: 05/23/17 13:25
Matrix: Solid
Date Received: 05/24/17 09:15
Percent Solids: 87.8

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		19	10	ug/Kg	☼	05/25/17 10:58	05/26/17 10:39	1
PCB-1221	ND		19	9.8	ug/Kg	☼	05/25/17 10:58	05/26/17 10:39	1
PCB-1232	ND		19	7.5	ug/Kg	☼	05/25/17 10:58	05/26/17 10:39	1
PCB-1242	ND		19	15	ug/Kg	☼	05/25/17 10:58	05/26/17 10:39	1
PCB-1248	**490**		19	9.1	ug/Kg	☼	05/25/17 10:58	05/26/17 10:39	1
PCB-1254	**250**		19	8.3	ug/Kg	☼	05/25/17 10:58	05/26/17 10:39	1
PCB-1260	**34**		19	13	ug/Kg	☼	05/25/17 10:58	05/26/17 10:39	1
PCB-1262	ND		19	14	ug/Kg	☼	05/25/17 10:58	05/26/17 10:39	1
PCB-1268	ND		19	5.8	ug/Kg	☼	05/25/17 10:58	05/26/17 10:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*74*		*23 - 150*	*05/25/17 10:58*	*05/26/17 10:39*	*1*
DCB Decachlorobiphenyl (Surr)	*87*		*23 - 150*	*05/25/17 10:58*	*05/26/17 10:39*	*1*
Tetrachloro-m-xylene (Surr)	*75*		*27 - 138*	*05/25/17 10:58*	*05/26/17 10:39*	*1*
Tetrachloro-m-xylene (Surr)	*76*		*27 - 138*	*05/25/17 10:58*	*05/26/17 10:39*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**12.2**		0.1	0.1	%			05/25/17 16:57	1
Percent Solids	**87.8**		0.1	0.1	%			05/25/17 16:57	1

Client Sample ID: SSHS-B820-SUB-6-8

Lab Sample ID: 180-66622-33

Date Collected: 05/23/17 13:25
Matrix: Solid
Date Received: 05/24/17 09:15
Percent Solids: 84.7

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		19	10	ug/Kg	☼	05/26/17 11:00	05/28/17 11:29	1
PCB-1221	ND		19	10	ug/Kg	☼	05/26/17 11:00	05/28/17 11:29	1
PCB-1232	ND		19	7.7	ug/Kg	☼	05/26/17 11:00	05/28/17 11:29	1
PCB-1242	ND		19	15	ug/Kg	☼	05/26/17 11:00	05/28/17 11:29	1
PCB-1248	ND		19	9.3	ug/Kg	☼	05/26/17 11:00	05/28/17 11:29	1
PCB-1254	ND		19	8.5	ug/Kg	☼	05/26/17 11:00	05/28/17 11:29	1
PCB-1260	ND		19	13	ug/Kg	☼	05/26/17 11:00	05/28/17 11:29	1
PCB-1262	ND		19	14	ug/Kg	☼	05/26/17 11:00	05/28/17 11:29	1
PCB-1268	ND		19	5.9	ug/Kg	☼	05/26/17 11:00	05/28/17 11:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*84*		*23 - 150*	*05/26/17 11:00*	*05/28/17 11:29*	*1*
DCB Decachlorobiphenyl (Surr)	*91*		*23 - 150*	*05/26/17 11:00*	*05/28/17 11:29*	*1*
Tetrachloro-m-xylene (Surr)	*95*		*27 - 138*	*05/26/17 11:00*	*05/28/17 11:29*	*1*
Tetrachloro-m-xylene (Surr)	*94*		*27 - 138*	*05/26/17 11:00*	*05/28/17 11:29*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**15.3**		0.1	0.1	%			05/25/17 17:19	1
Percent Solids	**84.7**		0.1	0.1	%			05/25/17 17:19	1

Client Sample ID: PS-FD-15

Date Collected: 05/23/17 00:00
Date Received: 05/24/17 09:15

Lab Sample ID: 180-66622-35

Matrix: Solid
Percent Solids: 90.3

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		18	9.7	ug/Kg	☼	05/25/17 10:58	05/26/17 11:00	1
PCB-1221	ND		18	9.5	ug/Kg	☼	05/25/17 10:58	05/26/17 11:00	1
PCB-1232	ND		18	7.3	ug/Kg	☼	05/25/17 10:58	05/26/17 11:00	1
PCB-1242	ND		18	15	ug/Kg	☼	05/25/17 10:58	05/26/17 11:00	1
PCB-1248	**680**		18	8.7	ug/Kg	☼	05/25/17 10:58	05/26/17 11:00	1
PCB-1254	**550**		18	8.0	ug/Kg	☼	05/25/17 10:58	05/26/17 11:00	1
PCB-1260	**230**		18	12	ug/Kg	☼	05/25/17 10:58	05/26/17 11:00	1
PCB-1262	ND		18	13	ug/Kg	☼	05/25/17 10:58	05/26/17 11:00	1
PCB-1268	ND		18	5.6	ug/Kg	☼	05/25/17 10:58	05/26/17 11:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*78*		*23 - 150*	*05/25/17 10:58*	*05/26/17 11:00*	*1*
DCB Decachlorobiphenyl (Surr)	*91*		*23 - 150*	*05/25/17 10:58*	*05/26/17 11:00*	*1*
Tetrachloro-m-xylene (Surr)	*77*		*27 - 138*	*05/25/17 10:58*	*05/26/17 11:00*	*1*
Tetrachloro-m-xylene (Surr)	*77*		*27 - 138*	*05/25/17 10:58*	*05/26/17 11:00*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.7**		0.1	0.1	%			05/25/17 17:19	1
Percent Solids	**90.3**		0.1	0.1	%			05/25/17 17:19	1

Client Sample ID: PS-FD-16

Date Collected: 05/23/17 00:00
Date Received: 05/24/17 09:15

Lab Sample ID: 180-66622-36

Matrix: Solid
Percent Solids: 91.0

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		370	190	ug/Kg	☼	05/25/17 10:58	05/26/17 12:24	20
PCB-1221	ND		370	190	ug/Kg	☼	05/25/17 10:58	05/26/17 12:24	20
PCB-1232	ND		370	150	ug/Kg	☼	05/25/17 10:58	05/26/17 12:24	20
PCB-1242	ND		370	290	ug/Kg	☼	05/25/17 10:58	05/26/17 12:24	20
PCB-1248	**26000**		370	170	ug/Kg	☼	05/25/17 10:58	05/26/17 12:24	20
PCB-1254	**7400**		370	160	ug/Kg	☼	05/25/17 10:58	05/26/17 12:24	20
PCB-1260	**660**		370	240	ug/Kg	☼	05/25/17 10:58	05/26/17 12:24	20
PCB-1262	ND		370	260	ug/Kg	☼	05/25/17 10:58	05/26/17 12:24	20
PCB-1268	ND		370	110	ug/Kg	☼	05/25/17 10:58	05/26/17 12:24	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*97*		*23 - 150*	*05/25/17 10:58*	*05/26/17 12:24*	*20*
DCB Decachlorobiphenyl (Surr)	*121*		*23 - 150*	*05/25/17 10:58*	*05/26/17 12:24*	*20*
Tetrachloro-m-xylene (Surr)	*84*		*27 - 138*	*05/25/17 10:58*	*05/26/17 12:24*	*20*
Tetrachloro-m-xylene (Surr)	*107*		*27 - 138*	*05/25/17 10:58*	*05/26/17 12:24*	*20*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.0**		0.1	0.1	%			05/25/17 17:19	1
Percent Solids	**91.0**		0.1	0.1	%			05/25/17 17:19	1

Client Sample ID: PS-FD-17
Date Collected: 05/23/17 00:00
Date Received: 05/24/17 09:15

Lab Sample ID: 180-66622-37
Matrix: Solid
Percent Solids: 87.9

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		19	10	ug/Kg	☼	05/25/17 10:58	05/26/17 11:43	1
PCB-1221	ND		19	9.8	ug/Kg	☼	05/25/17 10:58	05/26/17 11:43	1
PCB-1232	ND		19	7.5	ug/Kg	☼	05/25/17 10:58	05/26/17 11:43	1
PCB-1242	ND		19	15	ug/Kg	☼	05/25/17 10:58	05/26/17 11:43	1
PCB-1248	**430**		19	9.1	ug/Kg	☼	05/25/17 10:58	05/26/17 11:43	1
PCB-1254	**280**		19	8.3	ug/Kg	☼	05/25/17 10:58	05/26/17 11:43	1
PCB-1260	**49**		19	13	ug/Kg	☼	05/25/17 10:58	05/26/17 11:43	1
PCB-1262	ND		19	14	ug/Kg	☼	05/25/17 10:58	05/26/17 11:43	1
PCB-1268	ND		19	5.8	ug/Kg	☼	05/25/17 10:58	05/26/17 11:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*80*		*23 - 150*	*05/25/17 10:58*	*05/26/17 11:43*	*1*
DCB Decachlorobiphenyl (Surr)	*85*		*23 - 150*	*05/25/17 10:58*	*05/26/17 11:43*	*1*
Tetrachloro-m-xylene (Surr)	*75*		*27 - 138*	*05/25/17 10:58*	*05/26/17 11:43*	*1*
Tetrachloro-m-xylene (Surr)	*76*		*27 - 138*	*05/25/17 10:58*	*05/26/17 11:43*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**12.1**		0.1	0.1	%			05/25/17 17:19	1
Percent Solids	**87.9**		0.1	0.1	%			05/25/17 17:19	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 180-212272/1-A
Matrix: Solid
Analysis Batch: 212369

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 212272

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		17	8.8	ug/Kg		05/25/17 10:58	05/26/17 06:45	1
PCB-1221	ND		17	8.6	ug/Kg		05/25/17 10:58	05/26/17 06:45	1
PCB-1232	ND		17	6.6	ug/Kg		05/25/17 10:58	05/26/17 06:45	1
PCB-1242	ND		17	13	ug/Kg		05/25/17 10:58	05/26/17 06:45	1
PCB-1248	ND		17	8.0	ug/Kg		05/25/17 10:58	05/26/17 06:45	1
PCB-1254	ND		17	7.3	ug/Kg		05/25/17 10:58	05/26/17 06:45	1
PCB-1260	ND		17	11	ug/Kg		05/25/17 10:58	05/26/17 06:45	1
PCB-1262	ND		17	12	ug/Kg		05/25/17 10:58	05/26/17 06:45	1
PCB-1268	ND		17	5.1	ug/Kg		05/25/17 10:58	05/26/17 06:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*91*		*23 - 150*	*05/25/17 10:58*	*05/26/17 06:45*	*1*
DCB Decachlorobiphenyl (Surr)	*100*		*23 - 150*	*05/25/17 10:58*	*05/26/17 06:45*	*1*
Tetrachloro-m-xylene (Surr)	*89*		*27 - 138*	*05/25/17 10:58*	*05/26/17 06:45*	*1*
Tetrachloro-m-xylene (Surr)	*89*		*27 - 138*	*05/25/17 10:58*	*05/26/17 06:45*	*1*

Lab Sample ID: LCS 180-212272/2-A
Matrix: Solid
Analysis Batch: 212369

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 212272

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			1330	1120		ug/Kg		84	52 - 126		
PCB-1260			1330	1340		ug/Kg		101	50 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*89*		*23 - 150*
DCB Decachlorobiphenyl (Surr)	*100*		*23 - 150*
Tetrachloro-m-xylene (Surr)	*88*		*27 - 138*
Tetrachloro-m-xylene (Surr)	*88*		*27 - 138*

Lab Sample ID: MB 180-212414/1-C
Matrix: Solid
Analysis Batch: 212572

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 212414

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		17	8.8	ug/Kg		05/26/17 11:00	05/28/17 11:07	1
PCB-1221	ND		17	8.6	ug/Kg		05/26/17 11:00	05/28/17 11:07	1
PCB-1232	ND		17	6.6	ug/Kg		05/26/17 11:00	05/28/17 11:07	1
PCB-1242	ND		17	13	ug/Kg		05/26/17 11:00	05/28/17 11:07	1
PCB-1248	ND		17	8.0	ug/Kg		05/26/17 11:00	05/28/17 11:07	1
PCB-1254	ND		17	7.3	ug/Kg		05/26/17 11:00	05/28/17 11:07	1
PCB-1260	ND		17	11	ug/Kg		05/26/17 11:00	05/28/17 11:07	1
PCB-1262	ND		17	12	ug/Kg		05/26/17 11:00	05/28/17 11:07	1
PCB-1268	ND		17	5.1	ug/Kg		05/26/17 11:00	05/28/17 11:07	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*82*		*23 - 150*	*05/26/17 11:00*	*05/28/17 11:07*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: MB 180-212414/1-C
Matrix: Solid
Analysis Batch: 212572

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 212414

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	85		23 - 150	05/26/17 11:00	05/28/17 11:07	1
Tetrachloro-m-xylene (Surr)	85		27 - 138	05/26/17 11:00	05/28/17 11:07	1
Tetrachloro-m-xylene (Surr)	84		27 - 138	05/26/17 11:00	05/28/17 11:07	1

Lab Sample ID: LCS 180-212414/2-C
Matrix: Solid
Analysis Batch: 212572

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 212414

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			1330	1030		ug/Kg		77	52 - 126		
PCB-1260			1330	1100		ug/Kg		82	50 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	78		23 - 150
DCB Decachlorobiphenyl (Surr)	79		23 - 150
Tetrachloro-m-xylene (Surr)	82		27 - 138
Tetrachloro-m-xylene (Surr)	82		27 - 138

Lab Sample ID: LCSD 180-212414/3-C
Matrix: Solid
Analysis Batch: 212572

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 212414

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016			1330	1080		ug/Kg		81	52 - 126	5	20
PCB-1260			1330	1200		ug/Kg		90	50 - 130	9	21

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	80		23 - 150
DCB Decachlorobiphenyl (Surr)	87		23 - 150
Tetrachloro-m-xylene (Surr)	86		27 - 138
Tetrachloro-m-xylene (Surr)	86		27 - 138

Lab Sample ID: MB 180-212867/1-C
Matrix: Solid
Analysis Batch: 212874

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 212867

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		17	8.8	ug/Kg		06/01/17 04:25	06/02/17 09:47	1
PCB-1221	ND		17	8.6	ug/Kg		06/01/17 04:25	06/02/17 09:47	1
PCB-1232	ND		17	6.6	ug/Kg		06/01/17 04:25	06/02/17 09:47	1
PCB-1242	ND		17	13	ug/Kg		06/01/17 04:25	06/02/17 09:47	1
PCB-1248	ND		17	8.0	ug/Kg		06/01/17 04:25	06/02/17 09:47	1
PCB-1254	ND		17	7.3	ug/Kg		06/01/17 04:25	06/02/17 09:47	1
PCB-1260	ND		17	11	ug/Kg		06/01/17 04:25	06/02/17 09:47	1
PCB-1262	ND		17	12	ug/Kg		06/01/17 04:25	06/02/17 09:47	1
PCB-1268	ND		17	5.1	ug/Kg		06/01/17 04:25	06/02/17 09:47	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: MB 180-212867/1-C
Matrix: Solid
Analysis Batch: 212874

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 212867

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*83*		*23 - 150*	*06/01/17 04:25*	*06/02/17 09:47*	*1*
DCB Decachlorobiphenyl (Surr)	*97*		*23 - 150*	*06/01/17 04:25*	*06/02/17 09:47*	*1*
Tetrachloro-m-xylene (Surr)	*78*		*27 - 138*	*06/01/17 04:25*	*06/02/17 09:47*	*1*
Tetrachloro-m-xylene (Surr)	*81*		*27 - 138*	*06/01/17 04:25*	*06/02/17 09:47*	*1*

Lab Sample ID: LCS 180-212867/2-C
Matrix: Solid
Analysis Batch: 212874

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 212867

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			1330	1030		ug/Kg		77	52 - 126		
PCB-1260			1330	896		ug/Kg		67	50 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*72*		*23 - 150*
DCB Decachlorobiphenyl (Surr)	*79*		*23 - 150*
Tetrachloro-m-xylene (Surr)	*75*		*27 - 138*
Tetrachloro-m-xylene (Surr)	*85*		*27 - 138*

Method: 2540G - SM 2540G

Lab Sample ID: 180-66622-37 DU
Matrix: Solid
Analysis Batch: 212334

Client Sample ID: PS-FD-17
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	12.1			10.8		%				11	20
Percent Solids	87.9			89.2		%				1	20

GC Semi VOA

Prep Batch: 212272

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-66622-19	SSHS-B753-SUB-2-4	Total/NA	Solid	3541	
180-66622-20	SSHS-B763-SUB-2-4	Total/NA	Solid	3541	
180-66622-21	SSHS-B781-SUB-2-4	Total/NA	Solid	3541	
180-66622-22	SSHS-B760-SUB-2-4	Total/NA	Solid	3541	
180-66622-23	SSHS-B754-SUB-2-4	Total/NA	Solid	3541	
180-66622-24	SSHS-B755-SUB-2-4	Total/NA	Solid	3541	
180-66622-25	SSHS-B762-SUB-2-4	Total/NA	Solid	3541	
180-66622-30	SSHS-B791-SUB-6-8	Total/NA	Solid	3541	
180-66622-32	SSHS-B820-SUB-4-6	Total/NA	Solid	3541	
180-66622-35	PS-FD-15	Total/NA	Solid	3541	
180-66622-36	PS-FD-16	Total/NA	Solid	3541	
180-66622-37	PS-FD-17	Total/NA	Solid	3541	
MB 180-212272/1-A	Method Blank	Total/NA	Solid	3541	
LCS 180-212272/2-A	Lab Control Sample	Total/NA	Solid	3541	

Cleanup Batch: 212364

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-66622-19	SSHS-B753-SUB-2-4	Total/NA	Solid	3665A	212272
180-66622-20	SSHS-B763-SUB-2-4	Total/NA	Solid	3665A	212272
180-66622-21	SSHS-B781-SUB-2-4	Total/NA	Solid	3665A	212272
180-66622-22	SSHS-B760-SUB-2-4	Total/NA	Solid	3665A	212272
180-66622-23	SSHS-B754-SUB-2-4	Total/NA	Solid	3665A	212272
180-66622-24	SSHS-B755-SUB-2-4	Total/NA	Solid	3665A	212272
180-66622-25	SSHS-B762-SUB-2-4	Total/NA	Solid	3665A	212272
180-66622-30	SSHS-B791-SUB-6-8	Total/NA	Solid	3665A	212272
180-66622-32	SSHS-B820-SUB-4-6	Total/NA	Solid	3665A	212272
180-66622-35	PS-FD-15	Total/NA	Solid	3665A	212272
180-66622-36	PS-FD-16	Total/NA	Solid	3665A	212272
180-66622-37	PS-FD-17	Total/NA	Solid	3665A	212272

Cleanup Batch: 212365

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-66622-19	SSHS-B753-SUB-2-4	Total/NA	Solid	3660B	212364
180-66622-20	SSHS-B763-SUB-2-4	Total/NA	Solid	3660B	212364
180-66622-21	SSHS-B781-SUB-2-4	Total/NA	Solid	3660B	212364
180-66622-22	SSHS-B760-SUB-2-4	Total/NA	Solid	3660B	212364
180-66622-23	SSHS-B754-SUB-2-4	Total/NA	Solid	3660B	212364
180-66622-24	SSHS-B755-SUB-2-4	Total/NA	Solid	3660B	212364
180-66622-25	SSHS-B762-SUB-2-4	Total/NA	Solid	3660B	212364
180-66622-30	SSHS-B791-SUB-6-8	Total/NA	Solid	3660B	212364
180-66622-32	SSHS-B820-SUB-4-6	Total/NA	Solid	3660B	212364
180-66622-35	PS-FD-15	Total/NA	Solid	3660B	212364
180-66622-36	PS-FD-16	Total/NA	Solid	3660B	212364
180-66622-37	PS-FD-17	Total/NA	Solid	3660B	212364

Analysis Batch: 212369

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-66622-19	SSHS-B753-SUB-2-4	Total/NA	Solid	8082A	212365
180-66622-20	SSHS-B763-SUB-2-4	Total/NA	Solid	8082A	212365
180-66622-21	SSHS-B781-SUB-2-4	Total/NA	Solid	8082A	212365
180-66622-22	SSHS-B760-SUB-2-4	Total/NA	Solid	8082A	212365

GC Semi VOA (Continued)

Analysis Batch: 212369 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-66622-23	SSHS-B754-SUB-2-4	Total/NA	Solid	8082A	212365
180-66622-24	SSHS-B755-SUB-2-4	Total/NA	Solid	8082A	212365
180-66622-25	SSHS-B762-SUB-2-4	Total/NA	Solid	8082A	212365
180-66622-30	SSHS-B791-SUB-6-8	Total/NA	Solid	8082A	212365
180-66622-32	SSHS-B820-SUB-4-6	Total/NA	Solid	8082A	212365
180-66622-35	PS-FD-15	Total/NA	Solid	8082A	212365
180-66622-36	PS-FD-16	Total/NA	Solid	8082A	212365
180-66622-37	PS-FD-17	Total/NA	Solid	8082A	212365
MB 180-212272/1-A	Method Blank	Total/NA	Solid	8082A	212272
LCS 180-212272/2-A	Lab Control Sample	Total/NA	Solid	8082A	212272

Prep Batch: 212414

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-66622-33	SSHS-B820-SUB-6-8	Total/NA	Solid	3541	
MB 180-212414/1-C	Method Blank	Total/NA	Solid	3541	
LCS 180-212414/2-C	Lab Control Sample	Total/NA	Solid	3541	
LCSD 180-212414/3-C	Lab Control Sample Dup	Total/NA	Solid	3541	

Cleanup Batch: 212527

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-66622-33	SSHS-B820-SUB-6-8	Total/NA	Solid	3665A	212414
MB 180-212414/1-C	Method Blank	Total/NA	Solid	3665A	212414
LCS 180-212414/2-C	Lab Control Sample	Total/NA	Solid	3665A	212414
LCSD 180-212414/3-C	Lab Control Sample Dup	Total/NA	Solid	3665A	212414

Cleanup Batch: 212528

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-66622-33	SSHS-B820-SUB-6-8	Total/NA	Solid	3660B	212527
MB 180-212414/1-C	Method Blank	Total/NA	Solid	3660B	212527
LCS 180-212414/2-C	Lab Control Sample	Total/NA	Solid	3660B	212527
LCSD 180-212414/3-C	Lab Control Sample Dup	Total/NA	Solid	3660B	212527

Analysis Batch: 212572

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-66622-33	SSHS-B820-SUB-6-8	Total/NA	Solid	8082A	212528
MB 180-212414/1-C	Method Blank	Total/NA	Solid	8082A	212528
LCS 180-212414/2-C	Lab Control Sample	Total/NA	Solid	8082A	212528
LCSD 180-212414/3-C	Lab Control Sample Dup	Total/NA	Solid	8082A	212528

Prep Batch: 212867

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-66622-28	SSHS-B777-SUB-0-2	Total/NA	Solid	3541	
180-66622-29	SSHS-B777-SUB-2-4	Total/NA	Solid	3541	
MB 180-212867/1-C	Method Blank	Total/NA	Solid	3541	
LCS 180-212867/2-C	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 212874

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-66622-28	SSHS-B777-SUB-0-2	Total/NA	Solid	8082A	212930
180-66622-29	SSHS-B777-SUB-2-4	Total/NA	Solid	8082A	212930
MB 180-212867/1-C	Method Blank	Total/NA	Solid	8082A	212930

GC Semi VOA (Continued)

Analysis Batch: 212874 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 180-212867/2-C	Lab Control Sample	Total/NA	Solid	8082A	212930

Cleanup Batch: 212929

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-66622-28	SSHS-B777-SUB-0-2	Total/NA	Solid	3665A	212867
180-66622-29	SSHS-B777-SUB-2-4	Total/NA	Solid	3665A	212867
MB 180-212867/1-C	Method Blank	Total/NA	Solid	3665A	212867
LCS 180-212867/2-C	Lab Control Sample	Total/NA	Solid	3665A	212867

Cleanup Batch: 212930

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-66622-28	SSHS-B777-SUB-0-2	Total/NA	Solid	3660B	212929
180-66622-29	SSHS-B777-SUB-2-4	Total/NA	Solid	3660B	212929
MB 180-212867/1-C	Method Blank	Total/NA	Solid	3660B	212929
LCS 180-212867/2-C	Lab Control Sample	Total/NA	Solid	3660B	212929

General Chemistry

Analysis Batch: 212327

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-66622-19	SSHS-B753-SUB-2-4	Total/NA	Solid	2540G	
180-66622-20	SSHS-B763-SUB-2-4	Total/NA	Solid	2540G	
180-66622-21	SSHS-B781-SUB-2-4	Total/NA	Solid	2540G	
180-66622-22	SSHS-B760-SUB-2-4	Total/NA	Solid	2540G	
180-66622-25	SSHS-B762-SUB-2-4	Total/NA	Solid	2540G	
180-66622-30	SSHS-B791-SUB-6-8	Total/NA	Solid	2540G	
180-66622-32	SSHS-B820-SUB-4-6	Total/NA	Solid	2540G	

Analysis Batch: 212334

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-66622-23	SSHS-B754-SUB-2-4	Total/NA	Solid	2540G	
180-66622-24	SSHS-B755-SUB-2-4	Total/NA	Solid	2540G	
180-66622-33	SSHS-B820-SUB-6-8	Total/NA	Solid	2540G	
180-66622-35	PS-FD-15	Total/NA	Solid	2540G	
180-66622-36	PS-FD-16	Total/NA	Solid	2540G	
180-66622-37	PS-FD-17	Total/NA	Solid	2540G	
180-66622-37 DU	PS-FD-17	Total/NA	Solid	2540G	

Analysis Batch: 212841

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-66622-28	SSHS-B777-SUB-0-2	Total/NA	Solid	2540G	
180-66622-29	SSHS-B777-SUB-2-4	Total/NA	Solid	2540G	

TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
phone 412.963.7058 fax 412.963.2468

Chain of Cust

180-66622 Chain of Custody

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA

Client Contact	Project Manager: Aron Krasnopoler	Site Contact: Jay Thompson	Date: 5/23/17	COC No:
Geosyntec Consultants	Tel/Fax: 401-381-4333	Lab Contact: Dave Dunlap	Carrier: FedEx	1 of 4 COCs
10211 Wincopin Circle, 4th Floor	Analysis Turnaround Time			Sampler: TH
Columbia, MD 21044	☐ CALENDAR DAYS ☑ WORKING DAYS			For Lab Use Only:
410-381-4333 Phone	TAT if different from Below			Walk-in Client:
410-381-4499 FAX	☐ 2 weeks			Lab Sampling:
Project Name: Former Sperry Remington Site - North	☐ 1 week			Job / SDG No.:
Site: Elmira	☐ 2 days			
P O # MN0832B	☑ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	PCBs - 8082A	SVOCs - 8270D	Metals: 6010C	Mercury - 7471B	Sample Specific Notes:
SSHS-B8/8-SUB-0-2	5/23/17	0720	C	S	2	N	N	X	X	X	X	HOLD for Metals / Hg
SSHS-B8/8-SUB-2-4		0720	C	S	2			X	X	X	X	
SSHS-B8/8-SUB-4-6		0725	C	S	2			X	X	X	X	
SSHS-B8/8-SUB-6-8		0725	C	S	2			X	X	X	X	
SSHS-B8/8-SUB-8-10		0730	C	S	2			X	X	X	X	
SSHS-B8/8-SUB-10-12		0730	C	S	2			X	X	X	X	
SSHS-B8/8-SUB-12-14		0735	C	S	2			X	X	X	X	
SSHS-B8/8-SUB-14-16		0735	C	S	2			X	X	X	X	
SSHS-B8/9-SUB-0-2		0745	C	S	2			X	X	X	X	
SSHS-B8/9-SUB-2-4		0745	C	S	2			X	X	X	X	
SSHS-B8/9-SUB-4-6		0750	C	S	2			X	X	X	X	
FS-DW-FD-1		X	C	S	2			X	X	X	X	

RUSH

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments: Run for SVOCs & PCBs, Hold for Metals / Hg

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd: _____ Corr'd: _____		Therm ID No.: _____
Relinquished by: Jay Thompson	Company: Geosyntec	Date/Time: 5/23/17 1830	Received by: Thermo Dog	Company: TAP	Date/Time: 5/24/17 915
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Form No. CA-C-WI-002, Rev. 4.3, dated 12/05/2013

TestAmerica Pittsburgh
301 Alpha Drive
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Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☑ Other:

Client Contact	Project Manager: Aron Krasnopoler	Site Contact: Jay Thompson	Date: 5/23/17	COC No:
Geosyntec Consultants	Tel/Fax: 401-381-4333	Lab Contact: Dave Dunlap	Carrier: FedEx	2 of 4 COCs
10211 Wincopin Circle, 4th Floor	Analysis Turnaround Time			Sampler: JT
Columbia, MD 21044	☐ CALENDAR DAYS ☑ WORKING DAYS			For Lab Use Only:
410-381-4333 Phone	TAT if different from Below _____			Walk-in Client:
410-381-4499 FAX	☐ 2 weeks			Lab Sampling:
Project Name: Former Sperry Remington Site - North	☐ 1 week			Job / SDG No.:
Site: Elmira	☐ 2 days			
P O # MN0832B	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	PCBs -8082A	SVOCs - 8270D	Metals - 6010C	Hg - 7471B	Sample Specific Notes:
SSHS-B819-SB-6-8	5/23/17	0750	C	S	2	N	N	X	X	X	X	Hold for metals/Hg
SSHS-B819-SB-8-10		0755	C	S	2			X	X	X	X	
SSHS-B819-SB-10-12		0755	C	S	2			X	X	X	X	
SSHS-B819-SB-12-14		0800	C	S	4	N	N	X	X	X	X	DUP MS/MSD-1 Hold for metals/Hg
SSHS-B819-SB-14-16		0800	C	S	2	N	N	X	X	X	X	Hold for Metals/Hg
DW-~~B819~~ FD-2 ~~5/24/17~~ 5/23/17		X	C	S	2			X	X	X	X	
SSHS-B763-SB-2-4		0840	C	S	2			X				
SSHS-B763-SB-2-4		0845	C	S	2			X				
SSHS-B781-SB-2-4		0850	C	S	2			X				
SSHS-B760-SB-2-4		0855	C	S	2			X				
SSHS-B754-SB-2-4		0900	C	S	2			X				
SSHS-B755-SB-2-4		0905	C	S	2			X				

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

1

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd: _____ Corr'd: _____ | Therm ID No.: _____

	Company	Date/Time		Company	Date/Time
Relinquished by: Jay Thompson	Geosyntec	5/23/17 1820	Received by: J Thomas	TAP	5/24/17 915
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Form No. CA-C-WI-002, Rev. 4.3, dated 12/05/2013

TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
phone 412.963.7058 fax 412.963.2468

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☑ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Aron Krasnopoler	Site Contact: Jay Thompson	Date: 5/23/17	COC No:
Geosyntec Consultants	Tel/Fax: 401-381-4333	Lab Contact: Dave Dunlap	Carrier: FedEx	3 of 4 COCs
10211 Wincopin Circle, 4th Floor	Analysis Turnaround Time			Sampler: JT
Columbia, MD 21044	☐ CALENDAR DAYS ☑ WORKING DAYS			For Lab Use Only:
410-381-4333 Phone	TAT if different from Below _____			Walk-in Client:
410-381-4499 FAX	☐ 2 weeks			Lab Sampling:
Project Name: Former Sperry Remington Site - North	☐ 1 week			
Site: Elmira	☐ 2 days			Job / SDG No.:
P O # MN0832B	☑ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	PCBs -8082A	Sample Specific Notes:
SSHS-B776-SUB-2-4	5/23/17	0905	C	S	2	N	N	X	
SSHS-B776-SUB-0-2		0910	C	S	2			X	HOLD
SSHS-B776-SUB-2-4		0912	C	S	2			X	HOLD
SSHS-B777-SUB-0-2		0915	C	S	2			X	HOLD
SSHS-B777-SUB-2-4		0915	C	S	2			X	HOLD
SSHS-B791-SUB-6-8		1315	C	S	2			X	
SSHS-B791-SUB-8-10		1315	C	S	2			X	HOLD
SSHS-B820-SUB-4-6		1325	C	S	2			X	
SSHS-B820-SUB-6-8		1325	C	S	2			X	
SSHS-B820-SUB-8-10		1330	C	S	2	N	N	X	HOLD
FS-FD-15		X	C	S	2	N	N	X	
FS-FD-16		X	C	S	2	N	N	X	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

1

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for_____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd:_____ Corr'd:_____ | Therm ID No.:_____

	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by: Jay Thompson	Geosyntec	5/23/17 1830			
Relinquished by:	Company:	Date/Time:	Received by:	Company: TAP	Date/Time: 5/24/17 915
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Form No. CA-C-WI-002, Rev. 4.3, dated 12/05/2013

TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
phone 412.963.7058 fax 412.963.2468

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☑ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Aron Krasnopoler	Site Contact: Jay Thompson	Date: 5/23/17	COC No:
Geosyntec Consultants	Tel/Fax: 401-381-4333	Lab Contact: Dave Dunlap	Carrier: FedEx	4 of 4 COCs
10211 Wincopin Circle, 4th Floor	**Analysis Turnaround Time**			Sampler: JT
Columbia, MD 21044	☐ CALENDAR DAYS ☑ WORKING DAYS			**For Lab Use Only:**
410-381-4333 Phone	TAT if different from Below _____			Walk-in Client:
410-381-4499 FAX	☐ 2 weeks			Lab Sampling:
Project Name: Former Sperry Remington Site - North	☐ 1 week			
Site: Elmira	☐ 2 days			Job / SDG No.:
P O # MN0832B	☑ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	PCBs -8082A	Sample Specific Notes:
BS-FD-17	5/23/17	X	C	S	2	N	N	X	

5/23/17 JT

Preservation Used: 1= Ice, 2= HCl; 3= H_2SO_4; 4=HNO_3; 5=NaOH; 6= Other _____ 1

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd: _____ Corr'd: _____		Therm ID No.: _____
Relinquished by: Jay Thompson	Company: Geosyntec	Date/Time: 5/23/17 (83)	Received by:	Company: TAP	Date/Time: 5/24/17 915
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Form No. CA-C-WI-002, Rev. 4.3, dated 12/05/2013

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 180-66622-1

Login Number: 66622
List Number: 1
Creator: Say, Thomas C

List Source: TestAmerica Pittsburgh

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

TestAmerica Job ID: 180-67517-1
Client Project/Site: Former Sperry Remington Site - North

For:
Geosyntec Consultants, Inc.
10211 Wincopin Circle
4'th Floor
Columbia, Maryland 21044

Attn: Mr. Aron Krasnopoler

Authorized for release by:
6/21/2017 1:41:52 PM

David Dunlap, Senior Project Manager
(412)963-2432
david.dunlap@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North

TestAmerica Job ID: 180-67517-1

Job ID: 180-67517-1

Laboratory: TestAmerica Pittsburgh

Narrative

Job Narrative
180-67517-1

Comments
This report contains results for sample SSHS-B822-SUB-0-2. The results for the other samples will be reported under separate cover in job# 180-67517-2.

Receipt
The samples were received on 6/20/2017 9:20 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.8º C.

GC Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc. TestAmerica Job ID: 180-67517-1
Project/Site: Former Sperry Remington Site - North

Laboratory: TestAmerica Pittsburgh

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	11182	03-31-18

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
2540G		Solid	Percent Moisture
2540G		Solid	Percent Solids

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North

TestAmerica Job ID: 180-67517-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-67517-1	SSHS-B822-SUB-0-2	Solid	06/19/17 10:45	06/20/17 09:20

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North

TestAmerica Job ID: 180-67517-1

Method	Method Description	Protocol	Laboratory
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL PIT
2540G	SM 2540G	SM22	TAL PIT

Protocol References:

SM22 = SM22

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North

TestAmerica Job ID: 180-67517-1

Client Sample ID: SSHS-B822-SUB-0-2
Date Collected: 06/19/17 10:45
Date Received: 06/20/17 09:20

Lab Sample ID: 180-67517-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			214816	06/20/17 14:21	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B822-SUB-0-2
Date Collected: 06/19/17 10:45
Date Received: 06/20/17 09:20

Lab Sample ID: 180-67517-1
Matrix: Solid
Percent Solids: 88.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	214819	06/20/17 14:31	CBY	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	214855	06/21/17 05:30	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	214856	06/21/17 05:32	JMO	TAL PIT
Total/NA	Analysis	8082A		1			214853	06/21/17 08:02	JMO	TAL PIT
	Instrument ID: CHGC16									

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Analyst References:

Lab: TAL PIT

Batch Type: Cleanup

JMO = John Oravec

Batch Type: Prep

CBY = Charles Yushinski

Batch Type: Analysis

JMO = John Oravec

JTL = Justin Landry

Client Sample ID: SSHS-B822-SUB-0-2
Date Collected: 06/19/17 10:45
Date Received: 06/20/17 09:20

Lab Sample ID: 180-67517-1
Matrix: Solid
Percent Solids: 88.7

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		19	10	ug/Kg	☼	06/20/17 14:31	06/21/17 08:02	1
PCB-1221	ND		19	9.7	ug/Kg	☼	06/20/17 14:31	06/21/17 08:02	1
PCB-1232	ND		19	7.4	ug/Kg	☼	06/20/17 14:31	06/21/17 08:02	1
PCB-1242	ND		19	15	ug/Kg	☼	06/20/17 14:31	06/21/17 08:02	1
PCB-1248	ND		19	9.0	ug/Kg	☼	06/20/17 14:31	06/21/17 08:02	1
PCB-1254	ND		19	8.2	ug/Kg	☼	06/20/17 14:31	06/21/17 08:02	1
PCB-1260	ND		19	13	ug/Kg	☼	06/20/17 14:31	06/21/17 08:02	1
PCB-1262	ND		19	13	ug/Kg	☼	06/20/17 14:31	06/21/17 08:02	1
PCB-1268	ND		19	5.7	ug/Kg	☼	06/20/17 14:31	06/21/17 08:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*94*		*23 - 150*	*06/20/17 14:31*	*06/21/17 08:02*	*1*
DCB Decachlorobiphenyl (Surr)	*100*		*23 - 150*	*06/20/17 14:31*	*06/21/17 08:02*	*1*
Tetrachloro-m-xylene (Surr)	*95*		*27 - 138*	*06/20/17 14:31*	*06/21/17 08:02*	*1*
Tetrachloro-m-xylene (Surr)	*99*		*27 - 138*	*06/20/17 14:31*	*06/21/17 08:02*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**11.3**		0.1	0.1	%			06/20/17 14:21	1
Percent Solids	**88.7**		0.1	0.1	%			06/20/17 14:21	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 180-214819/1-C
Matrix: Solid
Analysis Batch: 214853

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 214819

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		17	8.8	ug/Kg		06/20/17 14:31	06/21/17 07:42	1
PCB-1221	ND		17	8.6	ug/Kg		06/20/17 14:31	06/21/17 07:42	1
PCB-1232	ND		17	6.6	ug/Kg		06/20/17 14:31	06/21/17 07:42	1
PCB-1242	ND		17	13	ug/Kg		06/20/17 14:31	06/21/17 07:42	1
PCB-1248	ND		17	8.0	ug/Kg		06/20/17 14:31	06/21/17 07:42	1
PCB-1254	ND		17	7.3	ug/Kg		06/20/17 14:31	06/21/17 07:42	1
PCB-1260	ND		17	11	ug/Kg		06/20/17 14:31	06/21/17 07:42	1
PCB-1262	ND		17	12	ug/Kg		06/20/17 14:31	06/21/17 07:42	1
PCB-1268	ND		17	5.1	ug/Kg		06/20/17 14:31	06/21/17 07:42	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*90*		*23 - 150*	*06/20/17 14:31*	*06/21/17 07:42*	*1*
DCB Decachlorobiphenyl (Surr)	*98*		*23 - 150*	*06/20/17 14:31*	*06/21/17 07:42*	*1*
Tetrachloro-m-xylene (Surr)	*94*		*27 - 138*	*06/20/17 14:31*	*06/21/17 07:42*	*1*
Tetrachloro-m-xylene (Surr)	*100*		*27 - 138*	*06/20/17 14:31*	*06/21/17 07:42*	*1*

Lab Sample ID: LCS 180-214819/2-C
Matrix: Solid
Analysis Batch: 214853

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 214819

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			1330	1210		ug/Kg		90	52 - 126		
PCB-1260			1330	1030		ug/Kg		77	50 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*90*		*23 - 150*
DCB Decachlorobiphenyl (Surr)	*102*		*23 - 150*
Tetrachloro-m-xylene (Surr)	*97*		*27 - 138*
Tetrachloro-m-xylene (Surr)	*98*		*27 - 138*

Lab Sample ID: 180-67517-1 MS
Matrix: Solid
Analysis Batch: 214853

Client Sample ID: SSHS-B822-SUB-0-2
Prep Type: Total/NA
Prep Batch: 214819

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016	ND		1500	1350		ug/Kg	☼	90	52 - 126		
PCB-1260	ND		1500	1200		ug/Kg	☼	80	50 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*94*		*23 - 150*
DCB Decachlorobiphenyl (Surr)	*103*		*23 - 150*
Tetrachloro-m-xylene (Surr)	*98*		*27 - 138*
Tetrachloro-m-xylene (Surr)	*103*		*27 - 138*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 180-67517-1 MSD
Matrix: Solid
Analysis Batch: 214853

Client Sample ID: SSHS-B822-SUB-0-2
Prep Type: Total/NA
Prep Batch: 214819

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	ND		1500	1350		ug/Kg	☼	90	52 - 126	0	20
PCB-1260	ND		1500	1230		ug/Kg	☼	82	50 - 130	2	21

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*95*		*23 - 150*
DCB Decachlorobiphenyl (Surr)	*103*		*23 - 150*
Tetrachloro-m-xylene (Surr)	*99*		*27 - 138*
Tetrachloro-m-xylene (Surr)	*103*		*27 - 138*

QC Association Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North

TestAmerica Job ID: 180-67517-1

GC Semi VOA

Prep Batch: 214819

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-67517-1	SSHS-B822-SUB-0-2	Total/NA	Solid	3541	
MB 180-214819/1-C	Method Blank	Total/NA	Solid	3541	
LCS 180-214819/2-C	Lab Control Sample	Total/NA	Solid	3541	
180-67517-1 MS	SSHS-B822-SUB-0-2	Total/NA	Solid	3541	
180-67517-1 MSD	SSHS-B822-SUB-0-2	Total/NA	Solid	3541	

Analysis Batch: 214853

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-67517-1	SSHS-B822-SUB-0-2	Total/NA	Solid	8082A	214856
MB 180-214819/1-C	Method Blank	Total/NA	Solid	8082A	214856
LCS 180-214819/2-C	Lab Control Sample	Total/NA	Solid	8082A	214856
180-67517-1 MS	SSHS-B822-SUB-0-2	Total/NA	Solid	8082A	214856
180-67517-1 MSD	SSHS-B822-SUB-0-2	Total/NA	Solid	8082A	214856

Cleanup Batch: 214855

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-67517-1	SSHS-B822-SUB-0-2	Total/NA	Solid	3665A	214819
MB 180-214819/1-C	Method Blank	Total/NA	Solid	3665A	214819
LCS 180-214819/2-C	Lab Control Sample	Total/NA	Solid	3665A	214819
180-67517-1 MS	SSHS-B822-SUB-0-2	Total/NA	Solid	3665A	214819
180-67517-1 MSD	SSHS-B822-SUB-0-2	Total/NA	Solid	3665A	214819

Cleanup Batch: 214856

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-67517-1	SSHS-B822-SUB-0-2	Total/NA	Solid	3660B	214855
MB 180-214819/1-C	Method Blank	Total/NA	Solid	3660B	214855
LCS 180-214819/2-C	Lab Control Sample	Total/NA	Solid	3660B	214855
180-67517-1 MS	SSHS-B822-SUB-0-2	Total/NA	Solid	3660B	214855
180-67517-1 MSD	SSHS-B822-SUB-0-2	Total/NA	Solid	3660B	214855

General Chemistry

Analysis Batch: 214816

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-67517-1	SSHS-B822-SUB-0-2	Total/NA	Solid	2540G	

TestAmerica Pittsburgh
301 Alpha Drive RIDC Park
Pittsburgh, PA 15238
Phone (412) 963-7058 Fax (412) 963-2468

Chain of Custody Record

Client Information
Client Contact: ~~Mary Tyler~~ Aron Kraunepoler
Company: Geosyntec Consultants, Inc.
Address: ~~180A Market Place Blvd~~ 10211 Wincopin Circle
City: ~~Knoxville~~ 4th Floor
State, Zip: ~~TN, 37922~~ Columbia, MD 21044
Phone: 202.550.7724
Email: ~~mtyler@geosyntec.com~~

Sampler: Ashwin Ranna
Phone: 412 552 4758
Lab PM: Dunlap, David A
E-Mail: david.dunlap@testamericainc.com
Carrier Tracking No(s): Shipped by Fedex
COC No: 180-38060-1
Page: Page 1 of 1
Job #:

Due Date Requested: June 21 2017
TAT Requested (days): 1 Day
PO #: MN0832
WO #:
Project Name: Former Sperry Remington Site - North
Project #: 18013464
Site: SSOW#:

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8082A - SOM01.2 PCBs	8082A - SOM01.2 PCBs LL	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
SSHS-B822-SUB-0-2	6.19.2017	1045	C	S	N	Y	X		4	Rush turnaround [1 Day] Perform MS/MSD Extract and Hold
SSHS-B823-SUB-0-2	6.19.2017	1145	C	S	N	N	X		2	Standard Turnaround
SSHS-B824-SUB-0-2	6.19.2017	1420	C	S	N	N	X		2	Standard Turnaround
EB-1	6.19.2017	1450	G	W	N	N	~~X~~	~~X~~	2	
DUP-1	—	—	C	S	N	N	X (HP)		2	

180-67517 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☑ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)
Special Instructions/QC Requirements:

Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:	
Relinquished by: Ashwin	Date/Time: 6.19.2017 1700	Company Geosyntec	Received by:		Date/Time: 6/20/17 0920	Company TAT	
Relinquished by:	Date/Time:	Company	Received by:		Date/Time:	Company	
Relinquished by:	Date/Time:	Company	Received by:		Date/Time:	Company	

Custody Seals Intact: ☐ Yes ☐ No
Custody Seal No.: 401900, 401901
Cooler Temperature(s) °C and Other Remarks:

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 180-67517-1

Login Number: 67517
List Number: 1
Creator: Neri, Tom

List Source: TestAmerica Pittsburgh

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

TestAmerica Job ID: 180-67517-2
Client Project/Site: Former Sperry Remington Site - North

For:
Geosyntec Consultants, Inc.
10211 Wincopin Circle
4'th Floor
Columbia, Maryland 21044

Attn: Mr. Aron Krasnopoler

Authorized for release by:
6/28/2017 9:27:49 AM

David Dunlap, Senior Project Manager
(412)963-2432
david.dunlap@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North

TestAmerica Job ID: 180-67517-2

Job ID: 180-67517-2

Laboratory: TestAmerica Pittsburgh

Narrative

Job Narrative
180-67517-2

Comments
Extract/hold sample SSHS-B823-SUB-0-2 and SSHS-B824-SUB-0-2 were cancelled on 6/28/17.

Receipt
The samples were received on 6/20/2017 9:20 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.8° C.

GC Semi VOA
Method(s) 8082A: The continuing calibration verification (CCV) analyzed in batch 180-215002 (180-215002/26) was slightly below criteria for surrogate tetrachloro-m-xylene on column RTX-CLP2. All surrogate recoveries were within the control limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North

TestAmerica Job ID: 180-67517-2

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc. TestAmerica Job ID: 180-67517-2
Project/Site: Former Sperry Remington Site - North

Laboratory: TestAmerica Pittsburgh

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	11182	03-31-18

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
2540G		Solid	Percent Moisture
2540G		Solid	Percent Solids

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North

TestAmerica Job ID: 180-67517-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-67517-4	EB-1	Water	06/19/17 14:50	06/20/17 09:20
180-67517-5	DUP-1	Solid	06/19/17 00:00	06/20/17 09:20

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North

TestAmerica Job ID: 180-67517-2

Method	Method Description	Protocol	Laboratory
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL PIT
8082A	Polychlorinated Biphenyls (PCBs) (GC)	SW846	TAL PIT
2540G	SM 2540G	SM22	TAL PIT

Protocol References:

SM22 = SM22

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North

TestAmerica Job ID: 180-67517-2

Client Sample ID: EB-1

Date Collected: 06/19/17 14:50
Date Received: 06/20/17 09:20

Lab Sample ID: 180-67517-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			1050 mL	1.0 mL	214808	06/20/17 11:40	CBY	TAL PIT
Total/NA	Analysis	8082A		1			215002	06/22/17 22:42	JMO	TAL PIT
	Instrument ID: CHGC8									

Client Sample ID: DUP-1

Date Collected: 06/19/17 00:00
Date Received: 06/20/17 09:20

Lab Sample ID: 180-67517-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			214816	06/20/17 14:21	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: DUP-1

Date Collected: 06/19/17 00:00
Date Received: 06/20/17 09:20

Lab Sample ID: 180-67517-5
Matrix: Solid
Percent Solids: 93.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	214819	06/20/17 14:31	CBY	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	214855	06/21/17 05:30	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	214856	06/21/17 05:32	JMO	TAL PIT
Total/NA	Analysis	8082A		1			214853	06/21/17 09:47	JMO	TAL PIT
	Instrument ID: CHGC16									

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Analyst References:

Lab: TAL PIT

Batch Type: Cleanup

JMO = John Oravec

Batch Type: Prep

CBY = Charles Yushinski

Batch Type: Analysis

JMO = John Oravec

JTL = Justin Landry

Client Sample ID: EB-1

Lab Sample ID: 180-67517-4
Date Collected: 06/19/17 14:50
Matrix: Water
Date Received: 06/20/17 09:20

Method: 8082A - Polychlorinated Biphenyls (PCBs) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0095	0.0033	ug/L		06/20/17 11:40	06/22/17 22:42	1
PCB-1221	ND		0.0095	0.0087	ug/L		06/20/17 11:40	06/22/17 22:42	1
PCB-1232	ND		0.0095	0.0032	ug/L		06/20/17 11:40	06/22/17 22:42	1
PCB-1242	ND		0.0095	0.0089	ug/L		06/20/17 11:40	06/22/17 22:42	1
PCB-1248	ND		0.0095	0.0065	ug/L		06/20/17 11:40	06/22/17 22:42	1
PCB-1254	**0.051**		0.0095	0.0047	ug/L		06/20/17 11:40	06/22/17 22:42	1
PCB-1260	ND		0.0095	0.0055	ug/L		06/20/17 11:40	06/22/17 22:42	1
PCB-1262	ND		0.0095	0.0064	ug/L		06/20/17 11:40	06/22/17 22:42	1
PCB-1268	ND		0.0095	0.0063	ug/L		06/20/17 11:40	06/22/17 22:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*69*		*16 - 150*	*06/20/17 11:40*	*06/22/17 22:42*	*1*
DCB Decachlorobiphenyl (Surr)	*69*		*16 - 150*	*06/20/17 11:40*	*06/22/17 22:42*	*1*
Tetrachloro-m-xylene (Surr)	*58*		*26 - 142*	*06/20/17 11:40*	*06/22/17 22:42*	*1*
Tetrachloro-m-xylene (Surr)	*50*		*26 - 142*	*06/20/17 11:40*	*06/22/17 22:42*	*1*

Client Sample ID: DUP-1

Lab Sample ID: 180-67517-5
Date Collected: 06/19/17 00:00
Matrix: Solid
Date Received: 06/20/17 09:20
Percent Solids: 93.7

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		18	9.4	ug/Kg	☼	06/20/17 14:31	06/21/17 09:47	1
PCB-1221	ND		18	9.2	ug/Kg	☼	06/20/17 14:31	06/21/17 09:47	1
PCB-1232	ND		18	7.0	ug/Kg	☼	06/20/17 14:31	06/21/17 09:47	1
PCB-1242	ND		18	14	ug/Kg	☼	06/20/17 14:31	06/21/17 09:47	1
PCB-1248	ND		18	8.5	ug/Kg	☼	06/20/17 14:31	06/21/17 09:47	1
PCB-1254	ND		18	7.8	ug/Kg	☼	06/20/17 14:31	06/21/17 09:47	1
PCB-1260	ND		18	12	ug/Kg	☼	06/20/17 14:31	06/21/17 09:47	1
PCB-1262	ND		18	13	ug/Kg	☼	06/20/17 14:31	06/21/17 09:47	1
PCB-1268	ND		18	5.4	ug/Kg	☼	06/20/17 14:31	06/21/17 09:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*87*		*23 - 150*	*06/20/17 14:31*	*06/21/17 09:47*	*1*
DCB Decachlorobiphenyl (Surr)	*98*		*23 - 150*	*06/20/17 14:31*	*06/21/17 09:47*	*1*
Tetrachloro-m-xylene (Surr)	*96*		*27 - 138*	*06/20/17 14:31*	*06/21/17 09:47*	*1*
Tetrachloro-m-xylene (Surr)	*99*		*27 - 138*	*06/20/17 14:31*	*06/21/17 09:47*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**6.3**		0.1	0.1	%			06/20/17 14:21	1
Percent Solids	**93.7**		0.1	0.1	%			06/20/17 14:21	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) (GC)

Lab Sample ID: MB 180-214808/1-A
Matrix: Water
Analysis Batch: 215002

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 214808

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.010	0.0034	ug/L		06/20/17 11:40	06/22/17 21:01	1
PCB-1221	ND		0.010	0.0092	ug/L		06/20/17 11:40	06/22/17 21:01	1
PCB-1232	ND		0.010	0.0033	ug/L		06/20/17 11:40	06/22/17 21:01	1
PCB-1242	ND		0.010	0.0093	ug/L		06/20/17 11:40	06/22/17 21:01	1
PCB-1248	ND		0.010	0.0069	ug/L		06/20/17 11:40	06/22/17 21:01	1
PCB-1254	ND		0.010	0.0050	ug/L		06/20/17 11:40	06/22/17 21:01	1
PCB-1260	ND		0.010	0.0057	ug/L		06/20/17 11:40	06/22/17 21:01	1
PCB-1262	ND		0.010	0.0067	ug/L		06/20/17 11:40	06/22/17 21:01	1
PCB-1268	ND		0.010	0.0066	ug/L		06/20/17 11:40	06/22/17 21:01	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*70*		*16 - 150*	*06/20/17 11:40*	*06/22/17 21:01*	*1*
DCB Decachlorobiphenyl (Surr)	*72*		*16 - 150*	*06/20/17 11:40*	*06/22/17 21:01*	*1*
Tetrachloro-m-xylene (Surr)	*66*		*26 - 142*	*06/20/17 11:40*	*06/22/17 21:01*	*1*
Tetrachloro-m-xylene (Surr)	*60*		*26 - 142*	*06/20/17 11:40*	*06/22/17 21:01*	*1*

Lab Sample ID: LCS 180-214808/4-A
Matrix: Water
Analysis Batch: 215002

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 214808

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			1.00	0.675		ug/L		68	58 - 120		
PCB-1260			1.00	0.773		ug/L		77	54 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*74*		*16 - 150*
DCB Decachlorobiphenyl (Surr)	*75*		*16 - 150*
Tetrachloro-m-xylene (Surr)	*73*		*26 - 142*
Tetrachloro-m-xylene (Surr)	*72*		*26 - 142*

Lab Sample ID: LCSD 180-214808/5-A
Matrix: Water
Analysis Batch: 215002

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 214808

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016			1.00	0.776		ug/L		78	58 - 120	14	27
PCB-1260			1.00	0.879		ug/L		88	54 - 130	13	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*84*		*16 - 150*
DCB Decachlorobiphenyl (Surr)	*86*		*16 - 150*
Tetrachloro-m-xylene (Surr)	*81*		*26 - 142*
Tetrachloro-m-xylene (Surr)	*78*		*26 - 142*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 180-214819/1-C
Matrix: Solid
Analysis Batch: 214853

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 214819

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		17	8.8	ug/Kg		06/20/17 14:31	06/21/17 07:42	1
PCB-1221	ND		17	8.6	ug/Kg		06/20/17 14:31	06/21/17 07:42	1
PCB-1232	ND		17	6.6	ug/Kg		06/20/17 14:31	06/21/17 07:42	1
PCB-1242	ND		17	13	ug/Kg		06/20/17 14:31	06/21/17 07:42	1
PCB-1248	ND		17	8.0	ug/Kg		06/20/17 14:31	06/21/17 07:42	1
PCB-1254	ND		17	7.3	ug/Kg		06/20/17 14:31	06/21/17 07:42	1
PCB-1260	ND		17	11	ug/Kg		06/20/17 14:31	06/21/17 07:42	1
PCB-1262	ND		17	12	ug/Kg		06/20/17 14:31	06/21/17 07:42	1
PCB-1268	ND		17	5.1	ug/Kg		06/20/17 14:31	06/21/17 07:42	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*90*		*23 - 150*	*06/20/17 14:31*	*06/21/17 07:42*	*1*
DCB Decachlorobiphenyl (Surr)	*98*		*23 - 150*	*06/20/17 14:31*	*06/21/17 07:42*	*1*
Tetrachloro-m-xylene (Surr)	*94*		*27 - 138*	*06/20/17 14:31*	*06/21/17 07:42*	*1*
Tetrachloro-m-xylene (Surr)	*100*		*27 - 138*	*06/20/17 14:31*	*06/21/17 07:42*	*1*

Lab Sample ID: LCS 180-214819/2-C
Matrix: Solid
Analysis Batch: 214853

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 214819

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			1330	1210		ug/Kg		90	52 - 126		
PCB-1260			1330	1030		ug/Kg		77	50 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*90*		*23 - 150*
DCB Decachlorobiphenyl (Surr)	*102*		*23 - 150*
Tetrachloro-m-xylene (Surr)	*97*		*27 - 138*
Tetrachloro-m-xylene (Surr)	*98*		*27 - 138*

QC Association Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North

TestAmerica Job ID: 180-67517-2

GC Semi VOA

Prep Batch: 214808

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-67517-4	EB-1	Total/NA	Water	3510C	
MB 180-214808/1-A	Method Blank	Total/NA	Water	3510C	
LCS 180-214808/4-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 180-214808/5-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Prep Batch: 214819

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-67517-5	DUP-1	Total/NA	Solid	3541	
MB 180-214819/1-C	Method Blank	Total/NA	Solid	3541	
LCS 180-214819/2-C	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 214853

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-67517-5	DUP-1	Total/NA	Solid	8082A	214856
MB 180-214819/1-C	Method Blank	Total/NA	Solid	8082A	214856
LCS 180-214819/2-C	Lab Control Sample	Total/NA	Solid	8082A	214856

Cleanup Batch: 214855

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-67517-5	DUP-1	Total/NA	Solid	3665A	214819
MB 180-214819/1-C	Method Blank	Total/NA	Solid	3665A	214819
LCS 180-214819/2-C	Lab Control Sample	Total/NA	Solid	3665A	214819

Cleanup Batch: 214856

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-67517-5	DUP-1	Total/NA	Solid	3660B	214855
MB 180-214819/1-C	Method Blank	Total/NA	Solid	3660B	214855
LCS 180-214819/2-C	Lab Control Sample	Total/NA	Solid	3660B	214855

Analysis Batch: 215002

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-67517-4	EB-1	Total/NA	Water	8082A	214808
MB 180-214808/1-A	Method Blank	Total/NA	Water	8082A	214808
LCS 180-214808/4-A	Lab Control Sample	Total/NA	Water	8082A	214808
LCSD 180-214808/5-A	Lab Control Sample Dup	Total/NA	Water	8082A	214808

General Chemistry

Analysis Batch: 214816

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-67517-5	DUP-1	Total/NA	Solid	2540G	

TestAmerica Pittsburgh
301 Alpha Drive RIDC Park
Pittsburgh, PA 15238
Phone (412) 963-7058 Fax (412) 963-2468

Chain of Custody Record

Client Information
Client Contact: ~~Mary Tyler~~ Aron Kraunepoler
Company: Geosyntec Consultants, Inc.
Address: ~~180A Market Place Blvd~~ 10211 Wincopin Circle
City: ~~Knoxville~~ 4th Floor
State, Zip: ~~TN, 37922~~ Columbia, MD 21044
Phone: 202.550.7724
Email: ~~mtyler@geosyntec.com~~

Sampler: Ashwin Ranna
Phone: 412 552 4758
Lab PM: Dunlap, David A
E-Mail: david.dunlap@testamericainc.com
Carrier Tracking No(s): Shipped by Fedex
COC No: 180-38060-1
Page: Page 1 of 1
Job #:

Due Date Requested: June 21 2017
TAT Requested (days): 1 Day
PO #: MN0832
WO #:
Project Name: Former Sperry Remington Site - North
Project #: 18013464
Site: SSOW#:

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8082A - SOM01.2 PCBs	8082A - SOM01.2 PCBs LL	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
SSHS-B822-SUB-0-2	6.19.2017	1045	C	S	N	Y	X		4	Rush turnaround [1 Day] Perform MS/MSD Extract and Hold
SSHS-B823-SUB-0-2	6.19.2017	1145	C	S	N	N	X		2	Standard Turnaround
SSHS-B824-SUB-0-2	6.19.2017	1420	C	S	N	N	X		2	Standard Turnaround
EB-1	6.19.2017	1450	G	W	N	N	~~X~~	~~X~~	2	
DUP-1	—	—	C	S	N	N	X	(1)	2	

180-67517 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☑ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)
Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	Ashwin	6.19.2017/1700	Geosyntec		6/20/17 0920	TAT
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ∆ Yes ∆ No
Custody Seal No.: 401900, 401901
Cooler Temperature(s) °C and Other Remarks:

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 180-67517-2

Login Number: 67517
List Number: 1
Creator: Neri, Tom

List Source: TestAmerica Pittsburgh

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

TestAmerica Job ID: 180-66622-2
Client Project/Site: Former Sperry Remington Site - North

For:
Geosyntec Consultants, Inc.
10211 Wincopin Circle
4'th Floor
Columbia, Maryland 21044

Attn: Mr. Aron Krasnopoler

Authorized for release by:
6/29/2017 2:25:15 PM

David Dunlap, Senior Project Manager
(412)963-2432
david.dunlap@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Job ID: 180-66622-2

Laboratory: TestAmerica Pittsburgh

Narrative

Job Narrative
180-66622-2

Comments
This report contains the semivolatiles and PCB results emailed preliminary on 6/3/17 along with results for two samples for metals removed from hold on 6/19/17.

Receipt
The samples were received on 5/24/2017 9:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 5 coolers at receipt time were 1.4º C, 2.1º C, 2.8º C, 4.0º C and 4.6º C.

The sample IDs for SSHS-B818… were changed to SSHS-B821… as directed by the sampler on 5/25/17.

GC/MS Semi VOA
Method(s) 8270D: The laboratory control sample (LCS) for preparation batch 180-212795 recovered below the control limits for the following analyte: benzaldehyde. Benzaldehyde has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed.

Method(s) 8270D: The matrix spike (MS) of sample SSHS-B819-SUB-12-14 (180-66622-16) had nearly all recoveries above the control limits. The RPDs between the matrix spike and matrix spike duplicate were also above the control limits. It is believed matrix spiking and surrogate spiking solutions may have been added to the matrix spike twice. The recoveries of the laboratory control sample (LCS) recovery were within the control limits (with the exception of benzaldehyde as noted above).

Method(s) 8270D: The continuing calibration verification (CCV) analyzed in batch 180-212748 was above criteria for the following analytes: 2,2'-oxybis[1-chloropropane] and di-n-octyl phthalate. As the CCV was biased high and these analytes were not detected in the associated samples, the results were reported.

Method(s) 8270D: The continuing calibration verification (CCV) analyzed in batch 180-212904 was above criteria for the following analytes: 1,4-dioxane, 2,4-dinitrophenol, and 4-nitrophenol. As the CCV was biased high and these analytes were not detected in the associated samples, the results were reported.

Method(s) 8270D: The continuing calibration verification (CCV) analyzed in batch 180-212904 was slightly below criteria for the following analyte: benzo[g,h,i]perylene. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte is considered estimated.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Definitions/Glossary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North

TestAmerica Job ID: 180-66622-2

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	LCS or LCSD is outside acceptance limits.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
X	Surrogate is outside control limits

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc. TestAmerica Job ID: 180-66622-2
Project/Site: Former Sperry Remington Site - North

Laboratory: TestAmerica Pittsburgh

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	11182	03-31-18

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
2540G		Solid	Percent Moisture
2540G		Solid	Percent Solids
8270D	3541	Solid	1,4-Dioxane

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North

TestAmerica Job ID: 180-66622-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-66622-1	SSHS-B821-SUB-0-2	Solid	05/23/17 07:20	05/24/17 09:15
180-66622-2	SSHS-B821-SUB-2-4	Solid	05/23/17 07:20	05/24/17 09:15
180-66622-3	SSHS-B821-SUB-4-6	Solid	05/23/17 07:25	05/24/17 09:15
180-66622-4	SSHS-B821-SUB-6-8	Solid	05/23/17 07:25	05/24/17 09:15
180-66622-5	SSHS-B821-SUB-8-10	Solid	05/23/17 07:30	05/24/17 09:15
180-66622-6	SSHS-B821-SUB-10-12	Solid	05/23/17 07:30	05/24/17 09:15
180-66622-7	SSHS-B821-SUB-12-14	Solid	05/23/17 07:35	05/24/17 09:15
180-66622-8	SSHS-B821-SUB-14-16	Solid	05/23/17 07:35	05/24/17 09:15
180-66622-9	SSHS-B819-SUB-0-2	Solid	05/23/17 07:45	05/24/17 09:15
180-66622-10	SSHS-B819-SUB-2-4	Solid	05/23/17 07:45	05/24/17 09:15
180-66622-11	SSHS-B819-SUB-4-6	Solid	05/23/17 07:50	05/24/17 09:15
180-66622-12	DW-FD-1	Solid	05/23/17 00:00	05/24/17 09:15
180-66622-13	SSHS-B819-SUB-6-8	Solid	05/23/17 07:50	05/24/17 09:15
180-66622-14	SSHS-B819-SUB-8-10	Solid	05/23/17 07:55	05/24/17 09:15
180-66622-15	SSHS-B819-SUB-10-12	Solid	05/23/17 07:55	05/24/17 09:15
180-66622-16	SSHS-B819-SUB-12-14	Solid	05/23/17 08:00	05/24/17 09:15
180-66622-17	SSHS-B819-SUB-14-16	Solid	05/23/17 08:00	05/24/17 09:15
180-66622-18	DW-FD-2	Solid	05/23/17 00:00	05/24/17 09:15

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North

TestAmerica Job ID: 180-66622-2

Method	Method Description	Protocol	Laboratory
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL PIT
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL PIT
6010C	Metals (ICP)	SW846	TAL PIT
7471B	Mercury (CVAA)	SW846	TAL PIT
2540G	SM 2540G	SM22	TAL PIT

Protocol References:

SM22 = SM22

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North

TestAmerica Job ID: 180-66622-2

Client Sample ID: SSHS-B821-SUB-0-2
Date Collected: 05/23/17 07:20
Date Received: 05/24/17 09:15

Lab Sample ID: 180-66622-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			212841	05/31/17 16:46	RSK	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B821-SUB-0-2
Date Collected: 05/23/17 07:20
Date Received: 05/24/17 09:15

Lab Sample ID: 180-66622-1
Matrix: Solid
Percent Solids: 90.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	5.0 mL	212678	05/30/17 13:04	MAL	TAL PIT
Total/NA	Analysis	8270D		1	1 mL	1 mL	212748	05/31/17 13:25	VVP	TAL PIT
	Instrument ID: CH733									
Total/NA	Prep	3541			15.5 g	20.0 mL	212726	05/31/17 03:47	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	212773	05/31/17 10:04	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	212774	05/31/17 10:05	JMO	TAL PIT
Total/NA	Analysis	8082A		1			212730	05/31/17 13:45	JMO	TAL PIT
	Instrument ID: CHGC16									
Total/NA	Prep	3050B			1.03 g	100 mL	215534	06/27/17 12:53	JVH	TAL PIT
Total/NA	Analysis	6010C		1			215722	06/28/17 16:25	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.65 g	100 mL	214615	06/20/17 07:31	CRM	TAL PIT
Total/NA	Analysis	7471B		1			214770	06/20/17 10:41	JDD	TAL PIT
	Instrument ID: K									

Client Sample ID: SSHS-B821-SUB-2-4
Date Collected: 05/23/17 07:20
Date Received: 05/24/17 09:15

Lab Sample ID: 180-66622-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			212841	05/31/17 16:46	RSK	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B821-SUB-2-4
Date Collected: 05/23/17 07:20
Date Received: 05/24/17 09:15

Lab Sample ID: 180-66622-2
Matrix: Solid
Percent Solids: 92.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	5.0 mL	212678	05/30/17 13:04	MAL	TAL PIT
Total/NA	Analysis	8270D		1	1 mL	1 mL	212748	05/31/17 13:52	VVP	TAL PIT
	Instrument ID: CH733									
Total/NA	Prep	3541			15.5 g	20.0 mL	212726	05/31/17 03:47	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	212773	05/31/17 10:04	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	212774	05/31/17 10:05	JMO	TAL PIT
Total/NA	Analysis	8082A		1			212730	05/31/17 14:06	JMO	TAL PIT
	Instrument ID: CHGC16									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North

TestAmerica Job ID: 180-66622-2

Client Sample ID: SSHS-B821-SUB-4-6
Date Collected: 05/23/17 07:25
Date Received: 05/24/17 09:15

Lab Sample ID: 180-66622-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			212841	05/31/17 16:46	RSK	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B821-SUB-4-6
Date Collected: 05/23/17 07:25
Date Received: 05/24/17 09:15

Lab Sample ID: 180-66622-3
Matrix: Solid
Percent Solids: 90.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	5.0 mL	212678	05/30/17 13:04	MAL	TAL PIT
Total/NA	Analysis	8270D		1	1 mL	1 mL	212748	05/31/17 14:19	VVP	TAL PIT
	Instrument ID: CH733									
Total/NA	Prep	3541			15.1 g	20.0 mL	212726	05/31/17 03:47	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	212773	05/31/17 10:04	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	212774	05/31/17 10:05	JMO	TAL PIT
Total/NA	Analysis	8082A		1			212730	05/31/17 15:09	JMO	TAL PIT
	Instrument ID: CHGC16									

Client Sample ID: SSHS-B821-SUB-6-8
Date Collected: 05/23/17 07:25
Date Received: 05/24/17 09:15

Lab Sample ID: 180-66622-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			212841	05/31/17 16:46	RSK	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B821-SUB-6-8
Date Collected: 05/23/17 07:25
Date Received: 05/24/17 09:15

Lab Sample ID: 180-66622-4
Matrix: Solid
Percent Solids: 93.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	5.0 mL	212678	05/30/17 13:04	MAL	TAL PIT
Total/NA	Analysis	8270D		1	1 mL	1 mL	212748	05/31/17 14:47	VVP	TAL PIT
	Instrument ID: CH733									
Total/NA	Prep	3541			15.0 g	20.0 mL	212726	05/31/17 03:47	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	212773	05/31/17 10:04	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	212774	05/31/17 10:05	JMO	TAL PIT
Total/NA	Analysis	8082A		1			212730	05/31/17 15:30	JMO	TAL PIT
	Instrument ID: CHGC16									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North

TestAmerica Job ID: 180-66622-2

Client Sample ID: SSHS-B821-SUB-8-10
Lab Sample ID: 180-66622-5
Date Collected: 05/23/17 07:30
Matrix: Solid
Date Received: 05/24/17 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			212841	05/31/17 16:46	RSK	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B821-SUB-8-10
Lab Sample ID: 180-66622-5
Date Collected: 05/23/17 07:30
Matrix: Solid
Date Received: 05/24/17 09:15
Percent Solids: 94.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	5.0 mL	212678	05/30/17 13:04	MAL	TAL PIT
Total/NA	Analysis	8270D		1	1 mL	1 mL	212748	05/31/17 15:14	VVP	TAL PIT
	Instrument ID: CH733									
Total/NA	Prep	3541			15.4 g	20.0 mL	212726	05/31/17 03:47	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	212773	05/31/17 10:04	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	212774	05/31/17 10:05	JMO	TAL PIT
Total/NA	Analysis	8082A		1			212730	05/31/17 15:51	JMO	TAL PIT
	Instrument ID: CHGC16									

Client Sample ID: SSHS-B821-SUB-10-12
Lab Sample ID: 180-66622-6
Date Collected: 05/23/17 07:30
Matrix: Solid
Date Received: 05/24/17 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			212841	05/31/17 16:46	RSK	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B821-SUB-10-12
Lab Sample ID: 180-66622-6
Date Collected: 05/23/17 07:30
Matrix: Solid
Date Received: 05/24/17 09:15
Percent Solids: 92.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.3 g	5.0 mL	212795	05/31/17 13:09	MAL	TAL PIT
Total/NA	Analysis	8270D		1	1 mL	1 mL	212904	06/01/17 14:08	DLF	TAL PIT
	Instrument ID: CH71									
Total/NA	Prep	3541			15.2 g	20.0 mL	212726	05/31/17 03:47	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	212773	05/31/17 10:04	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	212774	05/31/17 10:05	JMO	TAL PIT
Total/NA	Analysis	8082A		1			212730	05/31/17 16:12	JMO	TAL PIT
	Instrument ID: CHGC16									

Client Sample ID: SSHS-B821-SUB-12-14

Lab Sample ID: 180-66622-7
Date Collected: 05/23/17 07:35
Matrix: Solid
Date Received: 05/24/17 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			212841	05/31/17 16:46	RSK	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B821-SUB-12-14

Lab Sample ID: 180-66622-7
Date Collected: 05/23/17 07:35
Matrix: Solid
Date Received: 05/24/17 09:15
Percent Solids: 94.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.2 g	5.0 mL	212795	05/31/17 13:09	MAL	TAL PIT
Total/NA	Analysis	8270D		1	1 mL	1 mL	212904	06/01/17 14:36	DLF	TAL PIT
	Instrument ID: CH71									
Total/NA	Prep	3541			15.1 g	20.0 mL	212726	05/31/17 03:47	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	212773	05/31/17 10:04	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	212774	05/31/17 10:05	JMO	TAL PIT
Total/NA	Analysis	8082A		1			212730	05/31/17 16:32	JMO	TAL PIT
	Instrument ID: CHGC16									

Client Sample ID: SSHS-B821-SUB-14-16

Lab Sample ID: 180-66622-8
Date Collected: 05/23/17 07:35
Matrix: Solid
Date Received: 05/24/17 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			212841	05/31/17 16:46	RSK	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B821-SUB-14-16

Lab Sample ID: 180-66622-8
Date Collected: 05/23/17 07:35
Matrix: Solid
Date Received: 05/24/17 09:15
Percent Solids: 92.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.2 g	5.0 mL	212795	05/31/17 13:09	MAL	TAL PIT
Total/NA	Analysis	8270D		1	1 mL	1 mL	212904	06/01/17 15:03	DLF	TAL PIT
	Instrument ID: CH71									
Total/NA	Prep	3541			15.2 g	20.0 mL	212726	05/31/17 03:47	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	212773	05/31/17 10:04	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	212774	05/31/17 10:05	JMO	TAL PIT
Total/NA	Analysis	8082A		1			212730	05/31/17 16:53	JMO	TAL PIT
	Instrument ID: CHGC16									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North

TestAmerica Job ID: 180-66622-2

Client Sample ID: SSHS-B819-SUB-0-2
Date Collected: 05/23/17 07:45
Date Received: 05/24/17 09:15

Lab Sample ID: 180-66622-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			212841	05/31/17 16:46	RSK	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B819-SUB-0-2
Date Collected: 05/23/17 07:45
Date Received: 05/24/17 09:15

Lab Sample ID: 180-66622-9
Matrix: Solid
Percent Solids: 89.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.1 g	5.0 mL	212795	05/31/17 13:09	MAL	TAL PIT
Total/NA	Analysis	8270D		1	1 mL	1 mL	212904	06/01/17 15:31	DLF	TAL PIT
	Instrument ID: CH71									
Total/NA	Prep	3541			15.0 g	20.0 mL	212726	05/31/17 03:47	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	212773	05/31/17 10:04	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	212774	05/31/17 10:05	JMO	TAL PIT
Total/NA	Analysis	8082A		1			212730	05/31/17 17:14	JMO	TAL PIT
	Instrument ID: CHGC16									
Total/NA	Prep	3050B			0.98 g	100 mL	215534	06/27/17 12:53	JVH	TAL PIT
Total/NA	Analysis	6010C		1			215722	06/28/17 16:31	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.59 g	100 mL	214615	06/20/17 07:31	CRM	TAL PIT
Total/NA	Analysis	7471B		1			214770	06/20/17 10:43	JDD	TAL PIT
	Instrument ID: K									

Client Sample ID: SSHS-B819-SUB-2-4
Date Collected: 05/23/17 07:45
Date Received: 05/24/17 09:15

Lab Sample ID: 180-66622-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			212841	05/31/17 16:46	RSK	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B819-SUB-2-4
Date Collected: 05/23/17 07:45
Date Received: 05/24/17 09:15

Lab Sample ID: 180-66622-10
Matrix: Solid
Percent Solids: 87.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.1 g	5.0 mL	212795	05/31/17 13:09	MAL	TAL PIT
Total/NA	Analysis	8270D		1	1 mL	1 mL	212904	06/01/17 15:58	DLF	TAL PIT
	Instrument ID: CH71									
Total/NA	Prep	3541			15.2 g	20.0 mL	212726	05/31/17 03:47	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	212773	05/31/17 10:04	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	212774	05/31/17 10:05	JMO	TAL PIT
Total/NA	Analysis	8082A		1			212730	05/31/17 17:36	JMO	TAL PIT
	Instrument ID: CHGC16									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North

TestAmerica Job ID: 180-66622-2

Client Sample ID: SSHS-B819-SUB-4-6
Date Collected: 05/23/17 07:50
Date Received: 05/24/17 09:15

Lab Sample ID: 180-66622-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			212841	05/31/17 16:46	RSK	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B819-SUB-4-6
Date Collected: 05/23/17 07:50
Date Received: 05/24/17 09:15

Lab Sample ID: 180-66622-11
Matrix: Solid
Percent Solids: 90.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.5 g	5.0 mL	212795	05/31/17 13:09	MAL	TAL PIT
Total/NA	Analysis	8270D		1	1 mL	1 mL	212904	06/01/17 16:26	DLF	TAL PIT
	Instrument ID: CH71									
Total/NA	Prep	3541			15.4 g	20.0 mL	212726	05/31/17 03:47	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	212773	05/31/17 10:04	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	212774	05/31/17 10:05	JMO	TAL PIT
Total/NA	Analysis	8082A		1			212730	05/31/17 17:57	JMO	TAL PIT
	Instrument ID: CHGC16									

Client Sample ID: DW-FD-1
Date Collected: 05/23/17 00:00
Date Received: 05/24/17 09:15

Lab Sample ID: 180-66622-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			212841	05/31/17 16:46	RSK	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: DW-FD-1
Date Collected: 05/23/17 00:00
Date Received: 05/24/17 09:15

Lab Sample ID: 180-66622-12
Matrix: Solid
Percent Solids: 92.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.5 g	5.0 mL	212795	05/31/17 13:09	MAL	TAL PIT
Total/NA	Analysis	8270D		1	1 mL	1 mL	212904	06/01/17 16:53	DLF	TAL PIT
	Instrument ID: CH71									
Total/NA	Prep	3541			15.2 g	20.0 mL	212726	05/31/17 03:47	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	212773	05/31/17 10:04	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	212774	05/31/17 10:05	JMO	TAL PIT
Total/NA	Analysis	8082A		1			212730	05/31/17 18:19	JMO	TAL PIT
	Instrument ID: CHGC16									

Client Sample ID: SSHS-B819-SUB-6-8

Lab Sample ID: 180-66622-13
Date Collected: 05/23/17 07:50
Matrix: Solid
Date Received: 05/24/17 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			212841	05/31/17 16:46	RSK	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B819-SUB-6-8

Lab Sample ID: 180-66622-13
Date Collected: 05/23/17 07:50
Matrix: Solid
Date Received: 05/24/17 09:15
Percent Solids: 92.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.2 g	5.0 mL	212795	05/31/17 13:09	MAL	TAL PIT
Total/NA	Analysis	8270D		1	1 mL	1 mL	212904	06/01/17 17:21	DLF	TAL PIT
	Instrument ID: CH71									
Total/NA	Prep	3541			15.3 g	20.0 mL	212726	05/31/17 03:47	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	212773	05/31/17 10:04	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	212774	05/31/17 10:05	JMO	TAL PIT
Total/NA	Analysis	8082A		1			212730	05/31/17 18:40	JMO	TAL PIT
	Instrument ID: CHGC16									

Client Sample ID: SSHS-B819-SUB-8-10

Lab Sample ID: 180-66622-14
Date Collected: 05/23/17 07:55
Matrix: Solid
Date Received: 05/24/17 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			212841	05/31/17 16:46	RSK	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B819-SUB-8-10

Lab Sample ID: 180-66622-14
Date Collected: 05/23/17 07:55
Matrix: Solid
Date Received: 05/24/17 09:15
Percent Solids: 90.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.1 g	5.0 mL	212795	05/31/17 13:09	MAL	TAL PIT
Total/NA	Analysis	8270D		1	1 mL	1 mL	212904	06/01/17 17:48	DLF	TAL PIT
	Instrument ID: CH71									
Total/NA	Prep	3541			15.4 g	20.0 mL	212726	05/31/17 03:47	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	212773	05/31/17 10:04	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	212774	05/31/17 10:05	JMO	TAL PIT
Total/NA	Analysis	8082A		1			212730	05/31/17 19:01	JMO	TAL PIT
	Instrument ID: CHGC16									

Client Sample ID: SSHS-B819-SUB-10-12
Lab Sample ID: 180-66622-15
Date Collected: 05/23/17 07:55
Matrix: Solid
Date Received: 05/24/17 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			212841	05/31/17 16:46	RSK	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B819-SUB-10-12
Lab Sample ID: 180-66622-15
Date Collected: 05/23/17 07:55
Matrix: Solid
Date Received: 05/24/17 09:15
Percent Solids: 93.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	5.0 mL	212795	05/31/17 13:09	MAL	TAL PIT
Total/NA	Analysis	8270D		1	1 mL	1 mL	212904	06/01/17 18:16	DLF	TAL PIT
	Instrument ID: CH71									
Total/NA	Prep	3541			15.0 g	20.0 mL	212726	05/31/17 03:47	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	212773	05/31/17 10:04	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	212774	05/31/17 10:05	JMO	TAL PIT
Total/NA	Analysis	8082A		1			212730	05/31/17 19:22	JMO	TAL PIT
	Instrument ID: CHGC16									

Client Sample ID: SSHS-B819-SUB-12-14
Lab Sample ID: 180-66622-16
Date Collected: 05/23/17 08:00
Matrix: Solid
Date Received: 05/24/17 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			212841	05/31/17 16:46	RSK	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B819-SUB-12-14
Lab Sample ID: 180-66622-16
Date Collected: 05/23/17 08:00
Matrix: Solid
Date Received: 05/24/17 09:15
Percent Solids: 94.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.2 g	5.0 mL	212795	05/31/17 13:09	MAL	TAL PIT
Total/NA	Analysis	8270D		1	1 mL	1 mL	212904	06/01/17 12:45	DLF	TAL PIT
	Instrument ID: CH71									
Total/NA	Prep	3541			15.3 g	20.0 mL	212726	05/31/17 03:47	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	212773	05/31/17 10:04	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	212774	05/31/17 10:05	JMO	TAL PIT
Total/NA	Analysis	8082A		1			212730	05/31/17 19:42	JMO	TAL PIT
	Instrument ID: CHGC16									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North

TestAmerica Job ID: 180-66622-2

Client Sample ID: SSHS-B819-SUB-14-16
Date Collected: 05/23/17 08:00
Date Received: 05/24/17 09:15

Lab Sample ID: 180-66622-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			212841	05/31/17 16:46	RSK	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B819-SUB-14-16
Date Collected: 05/23/17 08:00
Date Received: 05/24/17 09:15

Lab Sample ID: 180-66622-17
Matrix: Solid
Percent Solids: 92.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.3 g	5.0 mL	212795	05/31/17 13:09	MAL	TAL PIT
Total/NA	Analysis	8270D		1	1 mL	1 mL	212904	06/01/17 18:43	DLF	TAL PIT
	Instrument ID: CH71									
Total/NA	Prep	3541			15.3 g	20.0 mL	212726	05/31/17 03:47	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	212773	05/31/17 10:04	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	212774	05/31/17 10:05	JMO	TAL PIT
Total/NA	Analysis	8082A		1			212730	05/31/17 20:45	JMO	TAL PIT
	Instrument ID: CHGC16									

Client Sample ID: DW-FD-2
Date Collected: 05/23/17 00:00
Date Received: 05/24/17 09:15

Lab Sample ID: 180-66622-18
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			212841	05/31/17 16:46	RSK	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: DW-FD-2
Date Collected: 05/23/17 00:00
Date Received: 05/24/17 09:15

Lab Sample ID: 180-66622-18
Matrix: Solid
Percent Solids: 93.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.2 g	5.0 mL	212795	05/31/17 13:09	MAL	TAL PIT
Total/NA	Analysis	8270D		1	1 mL	1 mL	212904	06/01/17 19:11	DLF	TAL PIT
	Instrument ID: CH71									
Total/NA	Prep	3541			15.0 g	20.0 mL	212799	05/31/17 13:13	MAL	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	212880	06/01/17 05:50	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	212881	06/01/17 05:51	JMO	TAL PIT
Total/NA	Analysis	8082A		1			212874	06/01/17 08:58	JMO	TAL PIT
	Instrument ID: CHGC16									

Laboratory References:
TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North

TestAmerica Job ID: 180-66622-2

Analyst References:

Lab: TAL PIT

Batch Type: Cleanup

JMO = John Oravec

Batch Type: Prep

BAP = Brian Pino

CRM = Caitlin McEvoy

JVH = Jackson Ho

MAL = Michael Lonzo

Batch Type: Analysis

DLF = Donald Ferguson

JDD = James DeRubeis

JMO = John Oravec

RJG = Rob Good

RSK = Robert Kurtz

VVP = Vincent Piccolino

Client Sample ID: SSHS-B821-SUB-0-2
Date Collected: 05/23/17 07:20
Date Received: 05/24/17 09:15

Lab Sample ID: 180-66622-1
Matrix: Solid
Percent Solids: 90.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**61**	**J**	74	25	ug/Kg	☼	05/30/17 13:04	05/31/17 13:25	1
Acenaphthylene	**1100**		74	25	ug/Kg	☼	05/30/17 13:04	05/31/17 13:25	1
Acetophenone	ND		740	25	ug/Kg	☼	05/30/17 13:04	05/31/17 13:25	1
Anthracene	**2000**		74	27	ug/Kg	☼	05/30/17 13:04	05/31/17 13:25	1
Atrazine	ND		740	51	ug/Kg	☼	05/30/17 13:04	05/31/17 13:25	1
Benzaldehyde	ND		740	24	ug/Kg	☼	05/30/17 13:04	05/31/17 13:25	1
Benzo[a]anthracene	**5500**		74	29	ug/Kg	☼	05/30/17 13:04	05/31/17 13:25	1
Benzo[a]pyrene	**4700**		74	30	ug/Kg	☼	05/30/17 13:04	05/31/17 13:25	1
Benzo[b]fluoranthene	**5700**		74	32	ug/Kg	☼	05/30/17 13:04	05/31/17 13:25	1
Benzo[g,h,i]perylene	**3500**		74	32	ug/Kg	☼	05/30/17 13:04	05/31/17 13:25	1
Benzo[k]fluoranthene	**2200**		74	25	ug/Kg	☼	05/30/17 13:04	05/31/17 13:25	1
1,1'-Biphenyl	**43**	**J**	360	29	ug/Kg	☼	05/30/17 13:04	05/31/17 13:25	1
Bis(2-chloroethoxy)methane	ND		360	21	ug/Kg	☼	05/30/17 13:04	05/31/17 13:25	1
Bis(2-chloroethyl)ether	ND		74	22	ug/Kg	☼	05/30/17 13:04	05/31/17 13:25	1
Bis(2-ethylhexyl) phthalate	ND		740	250	ug/Kg	☼	05/30/17 13:04	05/31/17 13:25	1
4-Bromophenyl phenyl ether	ND		360	35	ug/Kg	☼	05/30/17 13:04	05/31/17 13:25	1
Butyl benzyl phthalate	ND		360	270	ug/Kg	☼	05/30/17 13:04	05/31/17 13:25	1
Caprolactam	ND		1900	170	ug/Kg	☼	05/30/17 13:04	05/31/17 13:25	1
Carbazole	**950**		74	31	ug/Kg	☼	05/30/17 13:04	05/31/17 13:25	1
4-Chloroaniline	ND		360	21	ug/Kg	☼	05/30/17 13:04	05/31/17 13:25	1
4-Chloro-3-methylphenol	ND		360	39	ug/Kg	☼	05/30/17 13:04	05/31/17 13:25	1
2-Chloronaphthalene	ND		74	24	ug/Kg	☼	05/30/17 13:04	05/31/17 13:25	1
2-Chlorophenol	ND		360	26	ug/Kg	☼	05/30/17 13:04	05/31/17 13:25	1
4-Chlorophenyl phenyl ether	ND		360	26	ug/Kg	☼	05/30/17 13:04	05/31/17 13:25	1
Chrysene	**4300**		74	29	ug/Kg	☼	05/30/17 13:04	05/31/17 13:25	1
Dibenz(a,h)anthracene	**930**		74	30	ug/Kg	☼	05/30/17 13:04	05/31/17 13:25	1
Dibenzofuran	**300**	**J**	360	29	ug/Kg	☼	05/30/17 13:04	05/31/17 13:25	1
3,3'-Dichlorobenzidine	ND		360	150	ug/Kg	☼	05/30/17 13:04	05/31/17 13:25	1
2,4-Dichlorophenol	ND		74	30	ug/Kg	☼	05/30/17 13:04	05/31/17 13:25	1
Diethyl phthalate	ND		360	32	ug/Kg	☼	05/30/17 13:04	05/31/17 13:25	1
2,4-Dimethylphenol	ND		360	28	ug/Kg	☼	05/30/17 13:04	05/31/17 13:25	1
Dimethyl phthalate	ND		360	25	ug/Kg	☼	05/30/17 13:04	05/31/17 13:25	1
Di-n-butyl phthalate	ND		360	29	ug/Kg	☼	05/30/17 13:04	05/31/17 13:25	1
4,6-Dinitro-2-methylphenol	ND		1900	680	ug/Kg	☼	05/30/17 13:04	05/31/17 13:25	1
2,4-Dinitrophenol	ND		3600	740	ug/Kg	☼	05/30/17 13:04	05/31/17 13:25	1
2,4-Dinitrotoluene	ND		360	49	ug/Kg	☼	05/30/17 13:04	05/31/17 13:25	1
2,6-Dinitrotoluene	ND		360	25	ug/Kg	☼	05/30/17 13:04	05/31/17 13:25	1
Di-n-octyl phthalate	ND		360	43	ug/Kg	☼	05/30/17 13:04	05/31/17 13:25	1
1,4-Dioxane	ND		740	55	ug/Kg	☼	05/30/17 13:04	05/31/17 13:25	1
Fluoranthene	**8700**		74	29	ug/Kg	☼	05/30/17 13:04	05/31/17 13:25	1
Fluorene	**300**		74	26	ug/Kg	☼	05/30/17 13:04	05/31/17 13:25	1
Hexachlorobenzene	ND		74	30	ug/Kg	☼	05/30/17 13:04	05/31/17 13:25	1
Hexachlorobutadiene	ND		74	23	ug/Kg	☼	05/30/17 13:04	05/31/17 13:25	1
Hexachlorocyclopentadiene	ND		360	31	ug/Kg	☼	05/30/17 13:04	05/31/17 13:25	1
Hexachloroethane	ND		360	26	ug/Kg	☼	05/30/17 13:04	05/31/17 13:25	1
Indeno[1,2,3-cd]pyrene	**3200**		74	28	ug/Kg	☼	05/30/17 13:04	05/31/17 13:25	1
Isophorone	ND		360	20	ug/Kg	☼	05/30/17 13:04	05/31/17 13:25	1
2-Methylnaphthalene	**130**		74	28	ug/Kg	☼	05/30/17 13:04	05/31/17 13:25	1
2-Methylphenol	ND		360	32	ug/Kg	☼	05/30/17 13:04	05/31/17 13:25	1

Client Sample ID: SSHS-B821-SUB-0-2
Date Collected: 05/23/17 07:20
Date Received: 05/24/17 09:15

Lab Sample ID: 180-66622-1
Matrix: Solid
Percent Solids: 90.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylphenol, 3 & 4	**110**	**J**	360	32	ug/Kg	☼	05/30/17 13:04	05/31/17 13:25	1
Naphthalene	**590**		74	26	ug/Kg	☼	05/30/17 13:04	05/31/17 13:25	1
2-Nitroaniline	ND		1900	130	ug/Kg	☼	05/30/17 13:04	05/31/17 13:25	1
3-Nitroaniline	ND		1900	110	ug/Kg	☼	05/30/17 13:04	05/31/17 13:25	1
4-Nitroaniline	ND		1900	130	ug/Kg	☼	05/30/17 13:04	05/31/17 13:25	1
Nitrobenzene	ND		740	28	ug/Kg	☼	05/30/17 13:04	05/31/17 13:25	1
2-Nitrophenol	ND		360	27	ug/Kg	☼	05/30/17 13:04	05/31/17 13:25	1
4-Nitrophenol	ND		1900	380	ug/Kg	☼	05/30/17 13:04	05/31/17 13:25	1
N-Nitrosodi-n-propylamine	ND		74	25	ug/Kg	☼	05/30/17 13:04	05/31/17 13:25	1
N-Nitrosodiphenylamine	ND		360	58	ug/Kg	☼	05/30/17 13:04	05/31/17 13:25	1
2,2'-oxybis[1-chloropropane]	ND		74	24	ug/Kg	☼	05/30/17 13:04	05/31/17 13:25	1
Pentachlorophenol	ND		1900	690	ug/Kg	☼	05/30/17 13:04	05/31/17 13:25	1
Phenanthrene	**7900**		74	31	ug/Kg	☼	05/30/17 13:04	05/31/17 13:25	1
Phenol	ND		360	50	ug/Kg	☼	05/30/17 13:04	05/31/17 13:25	1
Pyrene	**11000**		74	33	ug/Kg	☼	05/30/17 13:04	05/31/17 13:25	1
1,2,4,5-Tetrachlorobenzene	ND		360	26	ug/Kg	☼	05/30/17 13:04	05/31/17 13:25	1
2,3,4,6-Tetrachlorophenol	ND		360	29	ug/Kg	☼	05/30/17 13:04	05/31/17 13:25	1
2,4,5-Trichlorophenol	ND		360	35	ug/Kg	☼	05/30/17 13:04	05/31/17 13:25	1
2,4,6-Trichlorophenol	ND		360	32	ug/Kg	☼	05/30/17 13:04	05/31/17 13:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*65*		*34 - 100*	*05/30/17 13:04*	*05/31/17 13:25*	*1*
2-Fluorophenol (Surr)	*70*		*24 - 109*	*05/30/17 13:04*	*05/31/17 13:25*	*1*
Nitrobenzene-d5 (Surr)	*85*		*31 - 105*	*05/30/17 13:04*	*05/31/17 13:25*	*1*
Phenol-d5 (Surr)	*79*		*24 - 106*	*05/30/17 13:04*	*05/31/17 13:25*	*1*
Terphenyl-d14 (Surr)	*74*		*34 - 104*	*05/30/17 13:04*	*05/31/17 13:25*	*1*
2,4,6-Tribromophenol (Surr)	*75*		*21 - 114*	*05/30/17 13:04*	*05/31/17 13:25*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		18	9.4	ug/Kg	☼	05/31/17 03:47	05/31/17 13:45	1
PCB-1221	ND		18	9.2	ug/Kg	☼	05/31/17 03:47	05/31/17 13:45	1
PCB-1232	ND		18	7.0	ug/Kg	☼	05/31/17 03:47	05/31/17 13:45	1
PCB-1242	ND		18	14	ug/Kg	☼	05/31/17 03:47	05/31/17 13:45	1
PCB-1248	ND		18	8.5	ug/Kg	☼	05/31/17 03:47	05/31/17 13:45	1
PCB-1254	ND		18	7.8	ug/Kg	☼	05/31/17 03:47	05/31/17 13:45	1
PCB-1260	ND		18	12	ug/Kg	☼	05/31/17 03:47	05/31/17 13:45	1
PCB-1262	ND		18	13	ug/Kg	☼	05/31/17 03:47	05/31/17 13:45	1
PCB-1268	ND		18	5.4	ug/Kg	☼	05/31/17 03:47	05/31/17 13:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*67*		*23 - 150*	*05/31/17 03:47*	*05/31/17 13:45*	*1*
DCB Decachlorobiphenyl (Surr)	*79*		*23 - 150*	*05/31/17 03:47*	*05/31/17 13:45*	*1*
Tetrachloro-m-xylene (Surr)	*68*		*27 - 138*	*05/31/17 03:47*	*05/31/17 13:45*	*1*
Tetrachloro-m-xylene (Surr)	*80*		*27 - 138*	*05/31/17 03:47*	*05/31/17 13:45*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**6600**		21	8.1	mg/Kg	☼	06/27/17 12:53	06/28/17 16:25	1
Antimony	ND		1.1	0.38	mg/Kg	☼	06/27/17 12:53	06/28/17 16:25	1

Client Sample ID: SSHS-B821-SUB-0-2

Lab Sample ID: 180-66622-1
Date Collected: 05/23/17 07:20
Matrix: Solid
Date Received: 05/24/17 09:15
Percent Solids: 90.9

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.0		1.1	0.47	mg/Kg	☼	06/27/17 12:53	06/28/17 16:25	1
Barium	150		21	5.7	mg/Kg	☼	06/27/17 12:53	06/28/17 16:25	1
Beryllium	0.32	J	0.43	0.11	mg/Kg	☼	06/27/17 12:53	06/28/17 16:25	1
Cadmium	0.16	J	0.53	0.12	mg/Kg	☼	06/27/17 12:53	06/28/17 16:25	1
Calcium	14000		530	150	mg/Kg	☼	06/27/17 12:53	06/28/17 16:25	1
Chromium	9.1		0.53	0.14	mg/Kg	☼	06/27/17 12:53	06/28/17 16:25	1
Cobalt	6.4		5.3	1.2	mg/Kg	☼	06/27/17 12:53	06/28/17 16:25	1
Copper	24		2.7	0.82	mg/Kg	☼	06/27/17 12:53	06/28/17 16:25	1
Iron	15000		11	5.9	mg/Kg	☼	06/27/17 12:53	06/28/17 16:25	1
Lead	27		1.1	0.35	mg/Kg	☼	06/27/17 12:53	06/28/17 16:25	1
Magnesium	2400		530	140	mg/Kg	☼	06/27/17 12:53	06/28/17 16:25	1
Manganese	690		1.6	0.43	mg/Kg	☼	06/27/17 12:53	06/28/17 16:25	1
Nickel	17		4.3	0.96	mg/Kg	☼	06/27/17 12:53	06/28/17 16:25	1
Potassium	530		530	130	mg/Kg	☼	06/27/17 12:53	06/28/17 16:25	1
Selenium	ND		1.1	0.42	mg/Kg	☼	06/27/17 12:53	06/28/17 16:25	1
Silver	ND		0.53	0.18	mg/Kg	☼	06/27/17 12:53	06/28/17 16:25	1
Sodium	ND		530	150	mg/Kg	☼	06/27/17 12:53	06/28/17 16:25	1
Thallium	ND		2.1	0.53	mg/Kg	☼	06/27/17 12:53	06/28/17 16:25	1
Vanadium	9.9		5.3	1.7	mg/Kg	☼	06/27/17 12:53	06/28/17 16:25	1
Zinc	68		2.1	1.1	mg/Kg	☼	06/27/17 12:53	06/28/17 16:25	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.095		0.034	0.0075	mg/Kg	☼	06/20/17 07:31	06/20/17 10:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.1		0.1	0.1	%			05/31/17 16:46	1
Percent Solids	90.9		0.1	0.1	%			05/31/17 16:46	1

Client Sample ID: SSHS-B821-SUB-2-4

Lab Sample ID: 180-66622-2
Date Collected: 05/23/17 07:20
Matrix: Solid
Date Received: 05/24/17 09:15
Percent Solids: 92.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		73	24	ug/Kg	☼	05/30/17 13:04	05/31/17 13:52	1
Acenaphthylene	ND		73	25	ug/Kg	☼	05/30/17 13:04	05/31/17 13:52	1
Acetophenone	ND		730	25	ug/Kg	☼	05/30/17 13:04	05/31/17 13:52	1
Anthracene	ND		73	27	ug/Kg	☼	05/30/17 13:04	05/31/17 13:52	1
Atrazine	ND		730	50	ug/Kg	☼	05/30/17 13:04	05/31/17 13:52	1
Benzaldehyde	ND		730	24	ug/Kg	☼	05/30/17 13:04	05/31/17 13:52	1
Benzo[a]anthracene	ND		73	29	ug/Kg	☼	05/30/17 13:04	05/31/17 13:52	1
Benzo[a]pyrene	ND		73	30	ug/Kg	☼	05/30/17 13:04	05/31/17 13:52	1
Benzo[b]fluoranthene	ND		73	31	ug/Kg	☼	05/30/17 13:04	05/31/17 13:52	1
Benzo[g,h,i]perylene	ND		73	31	ug/Kg	☼	05/30/17 13:04	05/31/17 13:52	1
Benzo[k]fluoranthene	ND		73	25	ug/Kg	☼	05/30/17 13:04	05/31/17 13:52	1
1,1'-Biphenyl	ND		360	29	ug/Kg	☼	05/30/17 13:04	05/31/17 13:52	1
Bis(2-chloroethoxy)methane	ND		360	21	ug/Kg	☼	05/30/17 13:04	05/31/17 13:52	1
Bis(2-chloroethyl)ether	ND		73	21	ug/Kg	☼	05/30/17 13:04	05/31/17 13:52	1

Client Sample ID: SSHS-B821-SUB-2-4
Date Collected: 05/23/17 07:20
Date Received: 05/24/17 09:15

Lab Sample ID: 180-66622-2
Matrix: Solid
Percent Solids: 92.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-ethylhexyl) phthalate	ND		730	240	ug/Kg	☼	05/30/17 13:04	05/31/17 13:52	1
4-Bromophenyl phenyl ether	ND		360	34	ug/Kg	☼	05/30/17 13:04	05/31/17 13:52	1
Butyl benzyl phthalate	ND		360	270	ug/Kg	☼	05/30/17 13:04	05/31/17 13:52	1
Caprolactam	ND		1800	170	ug/Kg	☼	05/30/17 13:04	05/31/17 13:52	1
Carbazole	ND		73	31	ug/Kg	☼	05/30/17 13:04	05/31/17 13:52	1
4-Chloroaniline	ND		360	20	ug/Kg	☼	05/30/17 13:04	05/31/17 13:52	1
4-Chloro-3-methylphenol	ND		360	38	ug/Kg	☼	05/30/17 13:04	05/31/17 13:52	1
2-Chloronaphthalene	ND		73	24	ug/Kg	☼	05/30/17 13:04	05/31/17 13:52	1
2-Chlorophenol	ND		360	26	ug/Kg	☼	05/30/17 13:04	05/31/17 13:52	1
4-Chlorophenyl phenyl ether	ND		360	26	ug/Kg	☼	05/30/17 13:04	05/31/17 13:52	1
Chrysene	ND		73	28	ug/Kg	☼	05/30/17 13:04	05/31/17 13:52	1
Dibenz(a,h)anthracene	ND		73	30	ug/Kg	☼	05/30/17 13:04	05/31/17 13:52	1
Dibenzofuran	ND		360	29	ug/Kg	☼	05/30/17 13:04	05/31/17 13:52	1
3,3'-Dichlorobenzidine	ND		360	150	ug/Kg	☼	05/30/17 13:04	05/31/17 13:52	1
2,4-Dichlorophenol	ND		73	29	ug/Kg	☼	05/30/17 13:04	05/31/17 13:52	1
Diethyl phthalate	ND		360	32	ug/Kg	☼	05/30/17 13:04	05/31/17 13:52	1
2,4-Dimethylphenol	ND		360	28	ug/Kg	☼	05/30/17 13:04	05/31/17 13:52	1
Dimethyl phthalate	ND		360	25	ug/Kg	☼	05/30/17 13:04	05/31/17 13:52	1
Di-n-butyl phthalate	ND		360	29	ug/Kg	☼	05/30/17 13:04	05/31/17 13:52	1
4,6-Dinitro-2-methylphenol	ND		1800	670	ug/Kg	☼	05/30/17 13:04	05/31/17 13:52	1
2,4-Dinitrophenol	ND		3600	730	ug/Kg	☼	05/30/17 13:04	05/31/17 13:52	1
2,4-Dinitrotoluene	ND		360	48	ug/Kg	☼	05/30/17 13:04	05/31/17 13:52	1
2,6-Dinitrotoluene	ND		360	25	ug/Kg	☼	05/30/17 13:04	05/31/17 13:52	1
Di-n-octyl phthalate	ND		360	43	ug/Kg	☼	05/30/17 13:04	05/31/17 13:52	1
1,4-Dioxane	ND		730	55	ug/Kg	☼	05/30/17 13:04	05/31/17 13:52	1
Fluoranthene	ND		73	29	ug/Kg	☼	05/30/17 13:04	05/31/17 13:52	1
Fluorene	ND		73	26	ug/Kg	☼	05/30/17 13:04	05/31/17 13:52	1
Hexachlorobenzene	ND		73	29	ug/Kg	☼	05/30/17 13:04	05/31/17 13:52	1
Hexachlorobutadiene	ND		73	23	ug/Kg	☼	05/30/17 13:04	05/31/17 13:52	1
Hexachlorocyclopentadiene	ND		360	31	ug/Kg	☼	05/30/17 13:04	05/31/17 13:52	1
Hexachloroethane	ND		360	26	ug/Kg	☼	05/30/17 13:04	05/31/17 13:52	1
Indeno[1,2,3-cd]pyrene	ND		73	28	ug/Kg	☼	05/30/17 13:04	05/31/17 13:52	1
Isophorone	ND		360	20	ug/Kg	☼	05/30/17 13:04	05/31/17 13:52	1
2-Methylnaphthalene	ND		73	28	ug/Kg	☼	05/30/17 13:04	05/31/17 13:52	1
2-Methylphenol	ND		360	32	ug/Kg	☼	05/30/17 13:04	05/31/17 13:52	1
Methylphenol, 3 & 4	ND		360	32	ug/Kg	☼	05/30/17 13:04	05/31/17 13:52	1
Naphthalene	ND		73	26	ug/Kg	☼	05/30/17 13:04	05/31/17 13:52	1
2-Nitroaniline	ND		1800	120	ug/Kg	☼	05/30/17 13:04	05/31/17 13:52	1
3-Nitroaniline	ND		1800	110	ug/Kg	☼	05/30/17 13:04	05/31/17 13:52	1
4-Nitroaniline	ND		1800	130	ug/Kg	☼	05/30/17 13:04	05/31/17 13:52	1
Nitrobenzene	ND		730	28	ug/Kg	☼	05/30/17 13:04	05/31/17 13:52	1
2-Nitrophenol	ND		360	26	ug/Kg	☼	05/30/17 13:04	05/31/17 13:52	1
4-Nitrophenol	ND		1800	380	ug/Kg	☼	05/30/17 13:04	05/31/17 13:52	1
N-Nitrosodi-n-propylamine	ND		73	25	ug/Kg	☼	05/30/17 13:04	05/31/17 13:52	1
N-Nitrosodiphenylamine	ND		360	57	ug/Kg	☼	05/30/17 13:04	05/31/17 13:52	1
2,2'-oxybis[1-chloropropane]	ND		73	24	ug/Kg	☼	05/30/17 13:04	05/31/17 13:52	1
Pentachlorophenol	ND		1800	680	ug/Kg	☼	05/30/17 13:04	05/31/17 13:52	1
Phenanthrene	ND		73	30	ug/Kg	☼	05/30/17 13:04	05/31/17 13:52	1
Phenol	ND		360	49	ug/Kg	☼	05/30/17 13:04	05/31/17 13:52	1

Client Sample ID: SSHS-B821-SUB-2-4

Date Collected: 05/23/17 07:20
Date Received: 05/24/17 09:15

Lab Sample ID: 180-66622-2

Matrix: Solid
Percent Solids: 92.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyrene	ND		73	32	ug/Kg	☼	05/30/17 13:04	05/31/17 13:52	1
1,2,4,5-Tetrachlorobenzene	ND		360	26	ug/Kg	☼	05/30/17 13:04	05/31/17 13:52	1
2,3,4,6-Tetrachlorophenol	ND		360	29	ug/Kg	☼	05/30/17 13:04	05/31/17 13:52	1
2,4,5-Trichlorophenol	ND		360	34	ug/Kg	☼	05/30/17 13:04	05/31/17 13:52	1
2,4,6-Trichlorophenol	ND		360	32	ug/Kg	☼	05/30/17 13:04	05/31/17 13:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*58*		*34 - 100*	*05/30/17 13:04*	*05/31/17 13:52*	*1*
2-Fluorophenol (Surr)	*63*		*24 - 109*	*05/30/17 13:04*	*05/31/17 13:52*	*1*
Nitrobenzene-d5 (Surr)	*78*		*31 - 105*	*05/30/17 13:04*	*05/31/17 13:52*	*1*
Phenol-d5 (Surr)	*71*		*24 - 106*	*05/30/17 13:04*	*05/31/17 13:52*	*1*
Terphenyl-d14 (Surr)	*76*		*34 - 104*	*05/30/17 13:04*	*05/31/17 13:52*	*1*
2,4,6-Tribromophenol (Surr)	*63*		*21 - 114*	*05/30/17 13:04*	*05/31/17 13:52*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		18	9.3	ug/Kg	☼	05/31/17 03:47	05/31/17 14:06	1
PCB-1221	ND		18	9.1	ug/Kg	☼	05/31/17 03:47	05/31/17 14:06	1
PCB-1232	ND		18	6.9	ug/Kg	☼	05/31/17 03:47	05/31/17 14:06	1
PCB-1242	ND		18	14	ug/Kg	☼	05/31/17 03:47	05/31/17 14:06	1
PCB-1248	ND		18	8.4	ug/Kg	☼	05/31/17 03:47	05/31/17 14:06	1
PCB-1254	ND		18	7.7	ug/Kg	☼	05/31/17 03:47	05/31/17 14:06	1
PCB-1260	ND		18	12	ug/Kg	☼	05/31/17 03:47	05/31/17 14:06	1
PCB-1262	ND		18	13	ug/Kg	☼	05/31/17 03:47	05/31/17 14:06	1
PCB-1268	ND		18	5.3	ug/Kg	☼	05/31/17 03:47	05/31/17 14:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*67*		*23 - 150*	*05/31/17 03:47*	*05/31/17 14:06*	*1*
DCB Decachlorobiphenyl (Surr)	*71*		*23 - 150*	*05/31/17 03:47*	*05/31/17 14:06*	*1*
Tetrachloro-m-xylene (Surr)	*64*		*27 - 138*	*05/31/17 03:47*	*05/31/17 14:06*	*1*
Tetrachloro-m-xylene (Surr)	*66*		*27 - 138*	*05/31/17 03:47*	*05/31/17 14:06*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**7.9**		0.1	0.1	%			05/31/17 16:46	1
Percent Solids	**92.1**		0.1	0.1	%			05/31/17 16:46	1

Client Sample ID: SSHS-B821-SUB-4-6

Date Collected: 05/23/17 07:25
Date Received: 05/24/17 09:15

Lab Sample ID: 180-66622-3

Matrix: Solid
Percent Solids: 90.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		74	25	ug/Kg	☼	05/30/17 13:04	05/31/17 14:19	1
Acenaphthylene	ND		74	25	ug/Kg	☼	05/30/17 13:04	05/31/17 14:19	1
Acetophenone	ND		740	25	ug/Kg	☼	05/30/17 13:04	05/31/17 14:19	1
Anthracene	**33**	**J**	74	27	ug/Kg	☼	05/30/17 13:04	05/31/17 14:19	1
Atrazine	ND		740	51	ug/Kg	☼	05/30/17 13:04	05/31/17 14:19	1
Benzaldehyde	ND		740	24	ug/Kg	☼	05/30/17 13:04	05/31/17 14:19	1
Benzo[a]anthracene	**90**		74	29	ug/Kg	☼	05/30/17 13:04	05/31/17 14:19	1
Benzo[a]pyrene	**79**		74	30	ug/Kg	☼	05/30/17 13:04	05/31/17 14:19	1

Client Sample ID: SSHS-B821-SUB-4-6
Date Collected: 05/23/17 07:25
Date Received: 05/24/17 09:15

Lab Sample ID: 180-66622-3
Matrix: Solid
Percent Solids: 90.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[b]fluoranthene	**99**		74	32	ug/Kg	☼	05/30/17 13:04	05/31/17 14:19	1
Benzo[g,h,i]perylene	**59**	**J**	74	32	ug/Kg	☼	05/30/17 13:04	05/31/17 14:19	1
Benzo[k]fluoranthene	**36**	**J**	74	25	ug/Kg	☼	05/30/17 13:04	05/31/17 14:19	1
1,1'-Biphenyl	ND		360	29	ug/Kg	☼	05/30/17 13:04	05/31/17 14:19	1
Bis(2-chloroethoxy)methane	ND		360	21	ug/Kg	☼	05/30/17 13:04	05/31/17 14:19	1
Bis(2-chloroethyl)ether	ND		74	22	ug/Kg	☼	05/30/17 13:04	05/31/17 14:19	1
Bis(2-ethylhexyl) phthalate	ND		740	250	ug/Kg	☼	05/30/17 13:04	05/31/17 14:19	1
4-Bromophenyl phenyl ether	ND		360	35	ug/Kg	☼	05/30/17 13:04	05/31/17 14:19	1
Butyl benzyl phthalate	ND		360	270	ug/Kg	☼	05/30/17 13:04	05/31/17 14:19	1
Caprolactam	ND		1900	170	ug/Kg	☼	05/30/17 13:04	05/31/17 14:19	1
Carbazole	ND		74	31	ug/Kg	☼	05/30/17 13:04	05/31/17 14:19	1
4-Chloroaniline	ND		360	21	ug/Kg	☼	05/30/17 13:04	05/31/17 14:19	1
4-Chloro-3-methylphenol	ND		360	39	ug/Kg	☼	05/30/17 13:04	05/31/17 14:19	1
2-Chloronaphthalene	ND		74	24	ug/Kg	☼	05/30/17 13:04	05/31/17 14:19	1
2-Chlorophenol	ND		360	26	ug/Kg	☼	05/30/17 13:04	05/31/17 14:19	1
4-Chlorophenyl phenyl ether	ND		360	26	ug/Kg	☼	05/30/17 13:04	05/31/17 14:19	1
Chrysene	**69**	**J**	74	29	ug/Kg	☼	05/30/17 13:04	05/31/17 14:19	1
Dibenz(a,h)anthracene	ND		74	30	ug/Kg	☼	05/30/17 13:04	05/31/17 14:19	1
Dibenzofuran	ND		360	29	ug/Kg	☼	05/30/17 13:04	05/31/17 14:19	1
3,3'-Dichlorobenzidine	ND		360	150	ug/Kg	☼	05/30/17 13:04	05/31/17 14:19	1
2,4-Dichlorophenol	ND		74	30	ug/Kg	☼	05/30/17 13:04	05/31/17 14:19	1
Diethyl phthalate	ND		360	33	ug/Kg	☼	05/30/17 13:04	05/31/17 14:19	1
2,4-Dimethylphenol	ND		360	28	ug/Kg	☼	05/30/17 13:04	05/31/17 14:19	1
Dimethyl phthalate	ND		360	26	ug/Kg	☼	05/30/17 13:04	05/31/17 14:19	1
Di-n-butyl phthalate	ND		360	29	ug/Kg	☼	05/30/17 13:04	05/31/17 14:19	1
4,6-Dinitro-2-methylphenol	ND		1900	680	ug/Kg	☼	05/30/17 13:04	05/31/17 14:19	1
2,4-Dinitrophenol	ND		3600	740	ug/Kg	☼	05/30/17 13:04	05/31/17 14:19	1
2,4-Dinitrotoluene	ND		360	49	ug/Kg	☼	05/30/17 13:04	05/31/17 14:19	1
2,6-Dinitrotoluene	ND		360	25	ug/Kg	☼	05/30/17 13:04	05/31/17 14:19	1
Di-n-octyl phthalate	ND		360	44	ug/Kg	☼	05/30/17 13:04	05/31/17 14:19	1
1,4-Dioxane	ND		740	55	ug/Kg	☼	05/30/17 13:04	05/31/17 14:19	1
Fluoranthene	**150**		74	29	ug/Kg	☼	05/30/17 13:04	05/31/17 14:19	1
Fluorene	ND		74	26	ug/Kg	☼	05/30/17 13:04	05/31/17 14:19	1
Hexachlorobenzene	ND		74	30	ug/Kg	☼	05/30/17 13:04	05/31/17 14:19	1
Hexachlorobutadiene	ND		74	23	ug/Kg	☼	05/30/17 13:04	05/31/17 14:19	1
Hexachlorocyclopentadiene	ND		360	31	ug/Kg	☼	05/30/17 13:04	05/31/17 14:19	1
Hexachloroethane	ND		360	26	ug/Kg	☼	05/30/17 13:04	05/31/17 14:19	1
Indeno[1,2,3-cd]pyrene	**50**	**J**	74	28	ug/Kg	☼	05/30/17 13:04	05/31/17 14:19	1
Isophorone	ND		360	20	ug/Kg	☼	05/30/17 13:04	05/31/17 14:19	1
2-Methylnaphthalene	ND		74	28	ug/Kg	☼	05/30/17 13:04	05/31/17 14:19	1
2-Methylphenol	ND		360	32	ug/Kg	☼	05/30/17 13:04	05/31/17 14:19	1
Methylphenol, 3 & 4	ND		360	33	ug/Kg	☼	05/30/17 13:04	05/31/17 14:19	1
Naphthalene	ND		74	26	ug/Kg	☼	05/30/17 13:04	05/31/17 14:19	1
2-Nitroaniline	ND		1900	130	ug/Kg	☼	05/30/17 13:04	05/31/17 14:19	1
3-Nitroaniline	ND		1900	110	ug/Kg	☼	05/30/17 13:04	05/31/17 14:19	1
4-Nitroaniline	ND		1900	130	ug/Kg	☼	05/30/17 13:04	05/31/17 14:19	1
Nitrobenzene	ND		740	28	ug/Kg	☼	05/30/17 13:04	05/31/17 14:19	1
2-Nitrophenol	ND		360	27	ug/Kg	☼	05/30/17 13:04	05/31/17 14:19	1
4-Nitrophenol	ND		1900	390	ug/Kg	☼	05/30/17 13:04	05/31/17 14:19	1

Client Sample ID: SSHS-B821-SUB-4-6

Date Collected: 05/23/17 07:25
Date Received: 05/24/17 09:15

Lab Sample ID: 180-66622-3

Matrix: Solid
Percent Solids: 90.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	ND		74	25	ug/Kg	☼	05/30/17 13:04	05/31/17 14:19	1
N-Nitrosodiphenylamine	ND		360	58	ug/Kg	☼	05/30/17 13:04	05/31/17 14:19	1
2,2'-oxybis[1-chloropropane]	ND		74	24	ug/Kg	☼	05/30/17 13:04	05/31/17 14:19	1
Pentachlorophenol	ND		1900	700	ug/Kg	☼	05/30/17 13:04	05/31/17 14:19	1
Phenanthrene	**130**		74	31	ug/Kg	☼	05/30/17 13:04	05/31/17 14:19	1
Phenol	ND		360	50	ug/Kg	☼	05/30/17 13:04	05/31/17 14:19	1
Pyrene	**200**		74	33	ug/Kg	☼	05/30/17 13:04	05/31/17 14:19	1
1,2,4,5-Tetrachlorobenzene	ND		360	26	ug/Kg	☼	05/30/17 13:04	05/31/17 14:19	1
2,3,4,6-Tetrachlorophenol	ND		360	29	ug/Kg	☼	05/30/17 13:04	05/31/17 14:19	1
2,4,5-Trichlorophenol	ND		360	35	ug/Kg	☼	05/30/17 13:04	05/31/17 14:19	1
2,4,6-Trichlorophenol	ND		360	32	ug/Kg	☼	05/30/17 13:04	05/31/17 14:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*59*		*34 - 100*	*05/30/17 13:04*	*05/31/17 14:19*	*1*
2-Fluorophenol (Surr)	*65*		*24 - 109*	*05/30/17 13:04*	*05/31/17 14:19*	*1*
Nitrobenzene-d5 (Surr)	*80*		*31 - 105*	*05/30/17 13:04*	*05/31/17 14:19*	*1*
Phenol-d5 (Surr)	*72*		*24 - 106*	*05/30/17 13:04*	*05/31/17 14:19*	*1*
Terphenyl-d14 (Surr)	*79*		*34 - 104*	*05/30/17 13:04*	*05/31/17 14:19*	*1*
2,4,6-Tribromophenol (Surr)	*59*		*21 - 114*	*05/30/17 13:04*	*05/31/17 14:19*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		18	9.7	ug/Kg	☼	05/31/17 03:47	05/31/17 15:09	1
PCB-1221	ND		18	9.5	ug/Kg	☼	05/31/17 03:47	05/31/17 15:09	1
PCB-1232	ND		18	7.2	ug/Kg	☼	05/31/17 03:47	05/31/17 15:09	1
PCB-1242	ND		18	15	ug/Kg	☼	05/31/17 03:47	05/31/17 15:09	1
PCB-1248	ND		18	8.7	ug/Kg	☼	05/31/17 03:47	05/31/17 15:09	1
PCB-1254	ND		18	8.0	ug/Kg	☼	05/31/17 03:47	05/31/17 15:09	1
PCB-1260	ND		18	12	ug/Kg	☼	05/31/17 03:47	05/31/17 15:09	1
PCB-1262	ND		18	13	ug/Kg	☼	05/31/17 03:47	05/31/17 15:09	1
PCB-1268	ND		18	5.6	ug/Kg	☼	05/31/17 03:47	05/31/17 15:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*75*		*23 - 150*	*05/31/17 03:47*	*05/31/17 15:09*	*1*
DCB Decachlorobiphenyl (Surr)	*80*		*23 - 150*	*05/31/17 03:47*	*05/31/17 15:09*	*1*
Tetrachloro-m-xylene (Surr)	*69*		*27 - 138*	*05/31/17 03:47*	*05/31/17 15:09*	*1*
Tetrachloro-m-xylene (Surr)	*73*		*27 - 138*	*05/31/17 03:47*	*05/31/17 15:09*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.4**		0.1	0.1	%			05/31/17 16:46	1
Percent Solids	**90.6**		0.1	0.1	%			05/31/17 16:46	1

Client Sample ID: SSHS-B821-SUB-6-8

Date Collected: 05/23/17 07:25
Date Received: 05/24/17 09:15

Lab Sample ID: 180-66622-4

Matrix: Solid
Percent Solids: 93.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		71	24	ug/Kg	☼	05/30/17 13:04	05/31/17 14:47	1
Acenaphthylene	ND		71	24	ug/Kg	☼	05/30/17 13:04	05/31/17 14:47	1

Client Sample ID: SSHS-B821-SUB-6-8
Date Collected: 05/23/17 07:25
Date Received: 05/24/17 09:15

Lab Sample ID: 180-66622-4
Matrix: Solid
Percent Solids: 93.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetophenone	ND		710	24	ug/Kg	☼	05/30/17 13:04	05/31/17 14:47	1
Anthracene	ND		71	26	ug/Kg	☼	05/30/17 13:04	05/31/17 14:47	1
Atrazine	ND		710	49	ug/Kg	☼	05/30/17 13:04	05/31/17 14:47	1
Benzaldehyde	ND		710	23	ug/Kg	☼	05/30/17 13:04	05/31/17 14:47	1
Benzo[a]anthracene	ND		71	28	ug/Kg	☼	05/30/17 13:04	05/31/17 14:47	1
Benzo[a]pyrene	ND		71	29	ug/Kg	☼	05/30/17 13:04	05/31/17 14:47	1
Benzo[b]fluoranthene	ND		71	31	ug/Kg	☼	05/30/17 13:04	05/31/17 14:47	1
Benzo[g,h,i]perylene	ND		71	31	ug/Kg	☼	05/30/17 13:04	05/31/17 14:47	1
Benzo[k]fluoranthene	ND		71	25	ug/Kg	☼	05/30/17 13:04	05/31/17 14:47	1
1,1'-Biphenyl	ND		350	28	ug/Kg	☼	05/30/17 13:04	05/31/17 14:47	1
Bis(2-chloroethoxy)methane	ND		350	21	ug/Kg	☼	05/30/17 13:04	05/31/17 14:47	1
Bis(2-chloroethyl)ether	ND		71	21	ug/Kg	☼	05/30/17 13:04	05/31/17 14:47	1
Bis(2-ethylhexyl) phthalate	ND		710	240	ug/Kg	☼	05/30/17 13:04	05/31/17 14:47	1
4-Bromophenyl phenyl ether	ND		350	34	ug/Kg	☼	05/30/17 13:04	05/31/17 14:47	1
Butyl benzyl phthalate	ND		350	260	ug/Kg	☼	05/30/17 13:04	05/31/17 14:47	1
Caprolactam	ND		1800	170	ug/Kg	☼	05/30/17 13:04	05/31/17 14:47	1
Carbazole	ND		71	30	ug/Kg	☼	05/30/17 13:04	05/31/17 14:47	1
4-Chloroaniline	ND		350	20	ug/Kg	☼	05/30/17 13:04	05/31/17 14:47	1
4-Chloro-3-methylphenol	ND		350	37	ug/Kg	☼	05/30/17 13:04	05/31/17 14:47	1
2-Chloronaphthalene	ND		71	23	ug/Kg	☼	05/30/17 13:04	05/31/17 14:47	1
2-Chlorophenol	ND		350	26	ug/Kg	☼	05/30/17 13:04	05/31/17 14:47	1
4-Chlorophenyl phenyl ether	ND		350	25	ug/Kg	☼	05/30/17 13:04	05/31/17 14:47	1
Chrysene	ND		71	28	ug/Kg	☼	05/30/17 13:04	05/31/17 14:47	1
Dibenz(a,h)anthracene	ND		71	29	ug/Kg	☼	05/30/17 13:04	05/31/17 14:47	1
Dibenzofuran	ND		350	28	ug/Kg	☼	05/30/17 13:04	05/31/17 14:47	1
3,3'-Dichlorobenzidine	ND		350	150	ug/Kg	☼	05/30/17 13:04	05/31/17 14:47	1
2,4-Dichlorophenol	ND		71	29	ug/Kg	☼	05/30/17 13:04	05/31/17 14:47	1
Diethyl phthalate	ND		350	31	ug/Kg	☼	05/30/17 13:04	05/31/17 14:47	1
2,4-Dimethylphenol	ND		350	27	ug/Kg	☼	05/30/17 13:04	05/31/17 14:47	1
Dimethyl phthalate	ND		350	25	ug/Kg	☼	05/30/17 13:04	05/31/17 14:47	1
Di-n-butyl phthalate	ND		350	28	ug/Kg	☼	05/30/17 13:04	05/31/17 14:47	1
4,6-Dinitro-2-methylphenol	ND		1800	660	ug/Kg	☼	05/30/17 13:04	05/31/17 14:47	1
2,4-Dinitrophenol	ND		3500	720	ug/Kg	☼	05/30/17 13:04	05/31/17 14:47	1
2,4-Dinitrotoluene	ND		350	47	ug/Kg	☼	05/30/17 13:04	05/31/17 14:47	1
2,6-Dinitrotoluene	ND		350	25	ug/Kg	☼	05/30/17 13:04	05/31/17 14:47	1
Di-n-octyl phthalate	ND		350	42	ug/Kg	☼	05/30/17 13:04	05/31/17 14:47	1
1,4-Dioxane	ND		710	54	ug/Kg	☼	05/30/17 13:04	05/31/17 14:47	1
Fluoranthene	ND		71	28	ug/Kg	☼	05/30/17 13:04	05/31/17 14:47	1
Fluorene	ND		71	25	ug/Kg	☼	05/30/17 13:04	05/31/17 14:47	1
Hexachlorobenzene	ND		71	29	ug/Kg	☼	05/30/17 13:04	05/31/17 14:47	1
Hexachlorobutadiene	ND		71	22	ug/Kg	☼	05/30/17 13:04	05/31/17 14:47	1
Hexachlorocyclopentadiene	ND		350	30	ug/Kg	☼	05/30/17 13:04	05/31/17 14:47	1
Hexachloroethane	ND		350	26	ug/Kg	☼	05/30/17 13:04	05/31/17 14:47	1
Indeno[1,2,3-cd]pyrene	ND		71	27	ug/Kg	☼	05/30/17 13:04	05/31/17 14:47	1
Isophorone	ND		350	20	ug/Kg	☼	05/30/17 13:04	05/31/17 14:47	1
2-Methylnaphthalene	ND		71	27	ug/Kg	☼	05/30/17 13:04	05/31/17 14:47	1
2-Methylphenol	ND		350	31	ug/Kg	☼	05/30/17 13:04	05/31/17 14:47	1
Methylphenol, 3 & 4	ND		350	31	ug/Kg	☼	05/30/17 13:04	05/31/17 14:47	1
Naphthalene	ND		71	26	ug/Kg	☼	05/30/17 13:04	05/31/17 14:47	1

Client Sample ID: SSHS-B821-SUB-6-8
Date Collected: 05/23/17 07:25
Date Received: 05/24/17 09:15

Lab Sample ID: 180-66622-4
Matrix: Solid
Percent Solids: 93.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Nitroaniline	ND		1800	120	ug/Kg	☼	05/30/17 13:04	05/31/17 14:47	1
3-Nitroaniline	ND		1800	100	ug/Kg	☼	05/30/17 13:04	05/31/17 14:47	1
4-Nitroaniline	ND		1800	130	ug/Kg	☼	05/30/17 13:04	05/31/17 14:47	1
Nitrobenzene	ND		710	27	ug/Kg	☼	05/30/17 13:04	05/31/17 14:47	1
2-Nitrophenol	ND		350	26	ug/Kg	☼	05/30/17 13:04	05/31/17 14:47	1
4-Nitrophenol	ND		1800	370	ug/Kg	☼	05/30/17 13:04	05/31/17 14:47	1
N-Nitrosodi-n-propylamine	ND		71	24	ug/Kg	☼	05/30/17 13:04	05/31/17 14:47	1
N-Nitrosodiphenylamine	ND		350	56	ug/Kg	☼	05/30/17 13:04	05/31/17 14:47	1
2,2'-oxybis[1-chloropropane]	ND		71	23	ug/Kg	☼	05/30/17 13:04	05/31/17 14:47	1
Pentachlorophenol	ND		1800	670	ug/Kg	☼	05/30/17 13:04	05/31/17 14:47	1
Phenanthrene	ND		71	30	ug/Kg	☼	05/30/17 13:04	05/31/17 14:47	1
Phenol	ND		350	48	ug/Kg	☼	05/30/17 13:04	05/31/17 14:47	1
Pyrene	ND		71	32	ug/Kg	☼	05/30/17 13:04	05/31/17 14:47	1
1,2,4,5-Tetrachlorobenzene	ND		350	25	ug/Kg	☼	05/30/17 13:04	05/31/17 14:47	1
2,3,4,6-Tetrachlorophenol	ND		350	28	ug/Kg	☼	05/30/17 13:04	05/31/17 14:47	1
2,4,5-Trichlorophenol	ND		350	34	ug/Kg	☼	05/30/17 13:04	05/31/17 14:47	1
2,4,6-Trichlorophenol	ND		350	31	ug/Kg	☼	05/30/17 13:04	05/31/17 14:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*57*		*34 - 100*	*05/30/17 13:04*	*05/31/17 14:47*	*1*
2-Fluorophenol (Surr)	*64*		*24 - 109*	*05/30/17 13:04*	*05/31/17 14:47*	*1*
Nitrobenzene-d5 (Surr)	*77*		*31 - 105*	*05/30/17 13:04*	*05/31/17 14:47*	*1*
Phenol-d5 (Surr)	*71*		*24 - 106*	*05/30/17 13:04*	*05/31/17 14:47*	*1*
Terphenyl-d14 (Surr)	*76*		*34 - 104*	*05/30/17 13:04*	*05/31/17 14:47*	*1*
2,4,6-Tribromophenol (Surr)	*56*		*21 - 114*	*05/30/17 13:04*	*05/31/17 14:47*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		18	9.4	ug/Kg	☼	05/31/17 03:47	05/31/17 15:30	1
PCB-1221	ND		18	9.2	ug/Kg	☼	05/31/17 03:47	05/31/17 15:30	1
PCB-1232	ND		18	7.0	ug/Kg	☼	05/31/17 03:47	05/31/17 15:30	1
PCB-1242	ND		18	14	ug/Kg	☼	05/31/17 03:47	05/31/17 15:30	1
PCB-1248	ND		18	8.5	ug/Kg	☼	05/31/17 03:47	05/31/17 15:30	1
PCB-1254	ND		18	7.8	ug/Kg	☼	05/31/17 03:47	05/31/17 15:30	1
PCB-1260	ND		18	12	ug/Kg	☼	05/31/17 03:47	05/31/17 15:30	1
PCB-1262	ND		18	13	ug/Kg	☼	05/31/17 03:47	05/31/17 15:30	1
PCB-1268	ND		18	5.4	ug/Kg	☼	05/31/17 03:47	05/31/17 15:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*81*		*23 - 150*	*05/31/17 03:47*	*05/31/17 15:30*	*1*
DCB Decachlorobiphenyl (Surr)	*90*		*23 - 150*	*05/31/17 03:47*	*05/31/17 15:30*	*1*
Tetrachloro-m-xylene (Surr)	*78*		*27 - 138*	*05/31/17 03:47*	*05/31/17 15:30*	*1*
Tetrachloro-m-xylene (Surr)	*82*		*27 - 138*	*05/31/17 03:47*	*05/31/17 15:30*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**6.2**		0.1	0.1	%			05/31/17 16:46	1
Percent Solids	**93.8**		0.1	0.1	%			05/31/17 16:46	1

Client Sample ID: SSHS-B821-SUB-8-10
Date Collected: 05/23/17 07:30
Date Received: 05/24/17 09:15

Lab Sample ID: 180-66622-5
Matrix: Solid
Percent Solids: 94.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		71	24	ug/Kg	☼	05/30/17 13:04	05/31/17 15:14	1
Acenaphthylene	**32**	**J**	71	24	ug/Kg	☼	05/30/17 13:04	05/31/17 15:14	1
Acetophenone	ND		710	24	ug/Kg	☼	05/30/17 13:04	05/31/17 15:14	1
Anthracene	**76**		71	26	ug/Kg	☼	05/30/17 13:04	05/31/17 15:14	1
Atrazine	ND		710	49	ug/Kg	☼	05/30/17 13:04	05/31/17 15:14	1
Benzaldehyde	ND		710	23	ug/Kg	☼	05/30/17 13:04	05/31/17 15:14	1
Benzo[a]anthracene	**180**		71	28	ug/Kg	☼	05/30/17 13:04	05/31/17 15:14	1
Benzo[a]pyrene	**150**		71	29	ug/Kg	☼	05/30/17 13:04	05/31/17 15:14	1
Benzo[b]fluoranthene	**180**		71	31	ug/Kg	☼	05/30/17 13:04	05/31/17 15:14	1
Benzo[g,h,i]perylene	**93**		71	31	ug/Kg	☼	05/30/17 13:04	05/31/17 15:14	1
Benzo[k]fluoranthene	**79**		71	24	ug/Kg	☼	05/30/17 13:04	05/31/17 15:14	1
1,1'-Biphenyl	ND		350	28	ug/Kg	☼	05/30/17 13:04	05/31/17 15:14	1
Bis(2-chloroethoxy)methane	ND		350	20	ug/Kg	☼	05/30/17 13:04	05/31/17 15:14	1
Bis(2-chloroethyl)ether	ND		71	21	ug/Kg	☼	05/30/17 13:04	05/31/17 15:14	1
Bis(2-ethylhexyl) phthalate	ND		710	240	ug/Kg	☼	05/30/17 13:04	05/31/17 15:14	1
4-Bromophenyl phenyl ether	ND		350	34	ug/Kg	☼	05/30/17 13:04	05/31/17 15:14	1
Butyl benzyl phthalate	ND		350	260	ug/Kg	☼	05/30/17 13:04	05/31/17 15:14	1
Caprolactam	ND		1800	170	ug/Kg	☼	05/30/17 13:04	05/31/17 15:14	1
Carbazole	**42**	**J**	71	30	ug/Kg	☼	05/30/17 13:04	05/31/17 15:14	1
4-Chloroaniline	ND		350	20	ug/Kg	☼	05/30/17 13:04	05/31/17 15:14	1
4-Chloro-3-methylphenol	ND		350	37	ug/Kg	☼	05/30/17 13:04	05/31/17 15:14	1
2-Chloronaphthalene	ND		71	23	ug/Kg	☼	05/30/17 13:04	05/31/17 15:14	1
2-Chlorophenol	ND		350	25	ug/Kg	☼	05/30/17 13:04	05/31/17 15:14	1
4-Chlorophenyl phenyl ether	ND		350	25	ug/Kg	☼	05/30/17 13:04	05/31/17 15:14	1
Chrysene	**140**		71	28	ug/Kg	☼	05/30/17 13:04	05/31/17 15:14	1
Dibenz(a,h)anthracene	ND		71	29	ug/Kg	☼	05/30/17 13:04	05/31/17 15:14	1
Dibenzofuran	ND		350	28	ug/Kg	☼	05/30/17 13:04	05/31/17 15:14	1
3,3'-Dichlorobenzidine	ND		350	150	ug/Kg	☼	05/30/17 13:04	05/31/17 15:14	1
2,4-Dichlorophenol	ND		71	29	ug/Kg	☼	05/30/17 13:04	05/31/17 15:14	1
Diethyl phthalate	ND		350	31	ug/Kg	☼	05/30/17 13:04	05/31/17 15:14	1
2,4-Dimethylphenol	ND		350	27	ug/Kg	☼	05/30/17 13:04	05/31/17 15:14	1
Dimethyl phthalate	ND		350	24	ug/Kg	☼	05/30/17 13:04	05/31/17 15:14	1
Di-n-butyl phthalate	ND		350	28	ug/Kg	☼	05/30/17 13:04	05/31/17 15:14	1
4,6-Dinitro-2-methylphenol	ND		1800	650	ug/Kg	☼	05/30/17 13:04	05/31/17 15:14	1
2,4-Dinitrophenol	ND		3500	710	ug/Kg	☼	05/30/17 13:04	05/31/17 15:14	1
2,4-Dinitrotoluene	ND		350	47	ug/Kg	☼	05/30/17 13:04	05/31/17 15:14	1
2,6-Dinitrotoluene	ND		350	24	ug/Kg	☼	05/30/17 13:04	05/31/17 15:14	1
Di-n-octyl phthalate	ND		350	42	ug/Kg	☼	05/30/17 13:04	05/31/17 15:14	1
1,4-Dioxane	ND		710	53	ug/Kg	☼	05/30/17 13:04	05/31/17 15:14	1
Fluoranthene	**340**		71	28	ug/Kg	☼	05/30/17 13:04	05/31/17 15:14	1
Fluorene	ND		71	25	ug/Kg	☼	05/30/17 13:04	05/31/17 15:14	1
Hexachlorobenzene	ND		71	28	ug/Kg	☼	05/30/17 13:04	05/31/17 15:14	1
Hexachlorobutadiene	ND		71	22	ug/Kg	☼	05/30/17 13:04	05/31/17 15:14	1
Hexachlorocyclopentadiene	ND		350	30	ug/Kg	☼	05/30/17 13:04	05/31/17 15:14	1
Hexachloroethane	ND		350	25	ug/Kg	☼	05/30/17 13:04	05/31/17 15:14	1
Indeno[1,2,3-cd]pyrene	**83**		71	27	ug/Kg	☼	05/30/17 13:04	05/31/17 15:14	1
Isophorone	ND		350	19	ug/Kg	☼	05/30/17 13:04	05/31/17 15:14	1
2-Methylnaphthalene	ND		71	27	ug/Kg	☼	05/30/17 13:04	05/31/17 15:14	1
2-Methylphenol	ND		350	31	ug/Kg	☼	05/30/17 13:04	05/31/17 15:14	1

Client Sample ID: SSHS-B821-SUB-8-10
Date Collected: 05/23/17 07:30
Date Received: 05/24/17 09:15

Lab Sample ID: 180-66622-5
Matrix: Solid
Percent Solids: 94.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylphenol, 3 & 4	ND		350	31	ug/Kg	☼	05/30/17 13:04	05/31/17 15:14	1
Naphthalene	ND		71	25	ug/Kg	☼	05/30/17 13:04	05/31/17 15:14	1
2-Nitroaniline	ND		1800	120	ug/Kg	☼	05/30/17 13:04	05/31/17 15:14	1
3-Nitroaniline	ND		1800	100	ug/Kg	☼	05/30/17 13:04	05/31/17 15:14	1
4-Nitroaniline	ND		1800	130	ug/Kg	☼	05/30/17 13:04	05/31/17 15:14	1
Nitrobenzene	ND		710	27	ug/Kg	☼	05/30/17 13:04	05/31/17 15:14	1
2-Nitrophenol	ND		350	26	ug/Kg	☼	05/30/17 13:04	05/31/17 15:14	1
4-Nitrophenol	ND		1800	370	ug/Kg	☼	05/30/17 13:04	05/31/17 15:14	1
N-Nitrosodi-n-propylamine	ND		71	24	ug/Kg	☼	05/30/17 13:04	05/31/17 15:14	1
N-Nitrosodiphenylamine	ND		350	55	ug/Kg	☼	05/30/17 13:04	05/31/17 15:14	1
2,2'-oxybis[1-chloropropane]	ND		71	23	ug/Kg	☼	05/30/17 13:04	05/31/17 15:14	1
Pentachlorophenol	ND		1800	670	ug/Kg	☼	05/30/17 13:04	05/31/17 15:14	1
Phenanthrene	**310**		71	29	ug/Kg	☼	05/30/17 13:04	05/31/17 15:14	1
Phenol	ND		350	48	ug/Kg	☼	05/30/17 13:04	05/31/17 15:14	1
Pyrene	**380**		71	31	ug/Kg	☼	05/30/17 13:04	05/31/17 15:14	1
1,2,4,5-Tetrachlorobenzene	ND		350	25	ug/Kg	☼	05/30/17 13:04	05/31/17 15:14	1
2,3,4,6-Tetrachlorophenol	ND		350	28	ug/Kg	☼	05/30/17 13:04	05/31/17 15:14	1
2,4,5-Trichlorophenol	ND		350	34	ug/Kg	☼	05/30/17 13:04	05/31/17 15:14	1
2,4,6-Trichlorophenol	ND		350	31	ug/Kg	☼	05/30/17 13:04	05/31/17 15:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*58*		*34 - 100*	*05/30/17 13:04*	*05/31/17 15:14*	*1*
2-Fluorophenol (Surr)	*65*		*24 - 109*	*05/30/17 13:04*	*05/31/17 15:14*	*1*
Nitrobenzene-d5 (Surr)	*79*		*31 - 105*	*05/30/17 13:04*	*05/31/17 15:14*	*1*
Phenol-d5 (Surr)	*72*		*24 - 106*	*05/30/17 13:04*	*05/31/17 15:14*	*1*
Terphenyl-d14 (Surr)	*71*		*34 - 104*	*05/30/17 13:04*	*05/31/17 15:14*	*1*
2,4,6-Tribromophenol (Surr)	*57*		*21 - 114*	*05/30/17 13:04*	*05/31/17 15:14*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		17	9.1	ug/Kg	☼	05/31/17 03:47	05/31/17 15:51	1
PCB-1221	ND		17	8.9	ug/Kg	☼	05/31/17 03:47	05/31/17 15:51	1
PCB-1232	ND		17	6.8	ug/Kg	☼	05/31/17 03:47	05/31/17 15:51	1
PCB-1242	ND		17	14	ug/Kg	☼	05/31/17 03:47	05/31/17 15:51	1
PCB-1248	ND		17	8.2	ug/Kg	☼	05/31/17 03:47	05/31/17 15:51	1
PCB-1254	ND		17	7.5	ug/Kg	☼	05/31/17 03:47	05/31/17 15:51	1
PCB-1260	ND		17	11	ug/Kg	☼	05/31/17 03:47	05/31/17 15:51	1
PCB-1262	ND		17	12	ug/Kg	☼	05/31/17 03:47	05/31/17 15:51	1
PCB-1268	ND		17	5.2	ug/Kg	☼	05/31/17 03:47	05/31/17 15:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*72*		*23 - 150*	*05/31/17 03:47*	*05/31/17 15:51*	*1*
DCB Decachlorobiphenyl (Surr)	*75*		*23 - 150*	*05/31/17 03:47*	*05/31/17 15:51*	*1*
Tetrachloro-m-xylene (Surr)	*70*		*27 - 138*	*05/31/17 03:47*	*05/31/17 15:51*	*1*
Tetrachloro-m-xylene (Surr)	*74*		*27 - 138*	*05/31/17 03:47*	*05/31/17 15:51*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**5.4**		0.1	0.1	%			05/31/17 16:46	1
Percent Solids	**94.6**		0.1	0.1	%			05/31/17 16:46	1

Client Sample ID: SSHS-B821-SUB-10-12
Date Collected: 05/23/17 07:30
Date Received: 05/24/17 09:15

Lab Sample ID: 180-66622-6
Matrix: Solid
Percent Solids: 92.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		71	24	ug/Kg	☼	05/31/17 13:09	06/01/17 14:08	1
Acenaphthylene	ND		71	24	ug/Kg	☼	05/31/17 13:09	06/01/17 14:08	1
Acetophenone	ND		710	24	ug/Kg	☼	05/31/17 13:09	06/01/17 14:08	1
Anthracene	ND		71	26	ug/Kg	☼	05/31/17 13:09	06/01/17 14:08	1
Atrazine	ND		710	49	ug/Kg	☼	05/31/17 13:09	06/01/17 14:08	1
Benzaldehyde	ND	*	710	23	ug/Kg	☼	05/31/17 13:09	06/01/17 14:08	1
Benzo[a]anthracene	ND		71	28	ug/Kg	☼	05/31/17 13:09	06/01/17 14:08	1
Benzo[a]pyrene	ND		71	29	ug/Kg	☼	05/31/17 13:09	06/01/17 14:08	1
Benzo[b]fluoranthene	ND		71	31	ug/Kg	☼	05/31/17 13:09	06/01/17 14:08	1
Benzo[g,h,i]perylene	ND		71	31	ug/Kg	☼	05/31/17 13:09	06/01/17 14:08	1
Benzo[k]fluoranthene	ND		71	24	ug/Kg	☼	05/31/17 13:09	06/01/17 14:08	1
1,1'-Biphenyl	ND		350	28	ug/Kg	☼	05/31/17 13:09	06/01/17 14:08	1
Bis(2-chloroethoxy)methane	ND		350	20	ug/Kg	☼	05/31/17 13:09	06/01/17 14:08	1
Bis(2-chloroethyl)ether	ND		71	21	ug/Kg	☼	05/31/17 13:09	06/01/17 14:08	1
Bis(2-ethylhexyl) phthalate	ND		710	240	ug/Kg	☼	05/31/17 13:09	06/01/17 14:08	1
4-Bromophenyl phenyl ether	ND		350	34	ug/Kg	☼	05/31/17 13:09	06/01/17 14:08	1
Butyl benzyl phthalate	ND		350	260	ug/Kg	☼	05/31/17 13:09	06/01/17 14:08	1
Caprolactam	ND		1800	170	ug/Kg	☼	05/31/17 13:09	06/01/17 14:08	1
Carbazole	ND		71	30	ug/Kg	☼	05/31/17 13:09	06/01/17 14:08	1
4-Chloroaniline	ND		350	20	ug/Kg	☼	05/31/17 13:09	06/01/17 14:08	1
4-Chloro-3-methylphenol	ND		350	37	ug/Kg	☼	05/31/17 13:09	06/01/17 14:08	1
2-Chloronaphthalene	ND		71	23	ug/Kg	☼	05/31/17 13:09	06/01/17 14:08	1
2-Chlorophenol	ND		350	25	ug/Kg	☼	05/31/17 13:09	06/01/17 14:08	1
4-Chlorophenyl phenyl ether	ND		350	25	ug/Kg	☼	05/31/17 13:09	06/01/17 14:08	1
Chrysene	ND		71	28	ug/Kg	☼	05/31/17 13:09	06/01/17 14:08	1
Dibenz(a,h)anthracene	ND		71	29	ug/Kg	☼	05/31/17 13:09	06/01/17 14:08	1
Dibenzofuran	ND		350	28	ug/Kg	☼	05/31/17 13:09	06/01/17 14:08	1
3,3'-Dichlorobenzidine	ND		350	150	ug/Kg	☼	05/31/17 13:09	06/01/17 14:08	1
2,4-Dichlorophenol	ND		71	29	ug/Kg	☼	05/31/17 13:09	06/01/17 14:08	1
Diethyl phthalate	ND		350	31	ug/Kg	☼	05/31/17 13:09	06/01/17 14:08	1
2,4-Dimethylphenol	ND		350	27	ug/Kg	☼	05/31/17 13:09	06/01/17 14:08	1
Dimethyl phthalate	ND		350	25	ug/Kg	☼	05/31/17 13:09	06/01/17 14:08	1
Di-n-butyl phthalate	ND		350	28	ug/Kg	☼	05/31/17 13:09	06/01/17 14:08	1
4,6-Dinitro-2-methylphenol	ND		1800	650	ug/Kg	☼	05/31/17 13:09	06/01/17 14:08	1
2,4-Dinitrophenol	ND		3500	710	ug/Kg	☼	05/31/17 13:09	06/01/17 14:08	1
2,4-Dinitrotoluene	ND		350	47	ug/Kg	☼	05/31/17 13:09	06/01/17 14:08	1
2,6-Dinitrotoluene	ND		350	24	ug/Kg	☼	05/31/17 13:09	06/01/17 14:08	1
Di-n-octyl phthalate	ND		350	42	ug/Kg	☼	05/31/17 13:09	06/01/17 14:08	1
1,4-Dioxane	ND		710	53	ug/Kg	☼	05/31/17 13:09	06/01/17 14:08	1
Fluoranthene	ND		71	28	ug/Kg	☼	05/31/17 13:09	06/01/17 14:08	1
Fluorene	ND		71	25	ug/Kg	☼	05/31/17 13:09	06/01/17 14:08	1
Hexachlorobenzene	ND		71	28	ug/Kg	☼	05/31/17 13:09	06/01/17 14:08	1
Hexachlorobutadiene	ND		71	22	ug/Kg	☼	05/31/17 13:09	06/01/17 14:08	1
Hexachlorocyclopentadiene	ND		350	30	ug/Kg	☼	05/31/17 13:09	06/01/17 14:08	1
Hexachloroethane	ND		350	25	ug/Kg	☼	05/31/17 13:09	06/01/17 14:08	1
Indeno[1,2,3-cd]pyrene	ND		71	27	ug/Kg	☼	05/31/17 13:09	06/01/17 14:08	1
Isophorone	ND		350	20	ug/Kg	☼	05/31/17 13:09	06/01/17 14:08	1
2-Methylnaphthalene	ND		71	27	ug/Kg	☼	05/31/17 13:09	06/01/17 14:08	1
2-Methylphenol	ND		350	31	ug/Kg	☼	05/31/17 13:09	06/01/17 14:08	1

Client Sample ID: SSHS-B821-SUB-10-12
Date Collected: 05/23/17 07:30
Date Received: 05/24/17 09:15

Lab Sample ID: 180-66622-6
Matrix: Solid
Percent Solids: 92.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylphenol, 3 & 4	ND		350	31	ug/Kg	☼	05/31/17 13:09	06/01/17 14:08	1
Naphthalene	ND		71	25	ug/Kg	☼	05/31/17 13:09	06/01/17 14:08	1
2-Nitroaniline	ND		1800	120	ug/Kg	☼	05/31/17 13:09	06/01/17 14:08	1
3-Nitroaniline	ND		1800	100	ug/Kg	☼	05/31/17 13:09	06/01/17 14:08	1
4-Nitroaniline	ND		1800	130	ug/Kg	☼	05/31/17 13:09	06/01/17 14:08	1
Nitrobenzene	ND		710	27	ug/Kg	☼	05/31/17 13:09	06/01/17 14:08	1
2-Nitrophenol	ND		350	26	ug/Kg	☼	05/31/17 13:09	06/01/17 14:08	1
4-Nitrophenol	ND		1800	370	ug/Kg	☼	05/31/17 13:09	06/01/17 14:08	1
N-Nitrosodi-n-propylamine	ND		71	24	ug/Kg	☼	05/31/17 13:09	06/01/17 14:08	1
N-Nitrosodiphenylamine	ND		350	55	ug/Kg	☼	05/31/17 13:09	06/01/17 14:08	1
2,2'-oxybis[1-chloropropane]	ND		71	23	ug/Kg	☼	05/31/17 13:09	06/01/17 14:08	1
Pentachlorophenol	ND		1800	670	ug/Kg	☼	05/31/17 13:09	06/01/17 14:08	1
Phenanthrene	ND		71	30	ug/Kg	☼	05/31/17 13:09	06/01/17 14:08	1
Phenol	ND		350	48	ug/Kg	☼	05/31/17 13:09	06/01/17 14:08	1
Pyrene	ND		71	31	ug/Kg	☼	05/31/17 13:09	06/01/17 14:08	1
1,2,4,5-Tetrachlorobenzene	ND		350	25	ug/Kg	☼	05/31/17 13:09	06/01/17 14:08	1
2,3,4,6-Tetrachlorophenol	ND		350	28	ug/Kg	☼	05/31/17 13:09	06/01/17 14:08	1
2,4,5-Trichlorophenol	ND		350	34	ug/Kg	☼	05/31/17 13:09	06/01/17 14:08	1
2,4,6-Trichlorophenol	ND		350	31	ug/Kg	☼	05/31/17 13:09	06/01/17 14:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*71*		*34 - 100*	*05/31/17 13:09*	*06/01/17 14:08*	*1*
2-Fluorophenol (Surr)	*73*		*24 - 109*	*05/31/17 13:09*	*06/01/17 14:08*	*1*
Nitrobenzene-d5 (Surr)	*75*		*31 - 105*	*05/31/17 13:09*	*06/01/17 14:08*	*1*
Phenol-d5 (Surr)	*67*		*24 - 106*	*05/31/17 13:09*	*06/01/17 14:08*	*1*
Terphenyl-d14 (Surr)	*77*		*34 - 104*	*05/31/17 13:09*	*06/01/17 14:08*	*1*
2,4,6-Tribromophenol (Surr)	*82*		*21 - 114*	*05/31/17 13:09*	*06/01/17 14:08*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		18	9.4	ug/Kg	☼	05/31/17 03:47	05/31/17 16:12	1
PCB-1221	ND		18	9.2	ug/Kg	☼	05/31/17 03:47	05/31/17 16:12	1
PCB-1232	ND		18	7.0	ug/Kg	☼	05/31/17 03:47	05/31/17 16:12	1
PCB-1242	ND		18	14	ug/Kg	☼	05/31/17 03:47	05/31/17 16:12	1
PCB-1248	ND		18	8.5	ug/Kg	☼	05/31/17 03:47	05/31/17 16:12	1
PCB-1254	ND		18	7.8	ug/Kg	☼	05/31/17 03:47	05/31/17 16:12	1
PCB-1260	ND		18	12	ug/Kg	☼	05/31/17 03:47	05/31/17 16:12	1
PCB-1262	ND		18	13	ug/Kg	☼	05/31/17 03:47	05/31/17 16:12	1
PCB-1268	ND		18	5.4	ug/Kg	☼	05/31/17 03:47	05/31/17 16:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*67*		*23 - 150*	*05/31/17 03:47*	*05/31/17 16:12*	*1*
DCB Decachlorobiphenyl (Surr)	*73*		*23 - 150*	*05/31/17 03:47*	*05/31/17 16:12*	*1*
Tetrachloro-m-xylene (Surr)	*68*		*27 - 138*	*05/31/17 03:47*	*05/31/17 16:12*	*1*
Tetrachloro-m-xylene (Surr)	*72*		*27 - 138*	*05/31/17 03:47*	*05/31/17 16:12*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**7.5**		0.1	0.1	%			05/31/17 16:46	1
Percent Solids	**92.5**		0.1	0.1	%			05/31/17 16:46	1

Client Sample ID: SSHS-B821-SUB-12-14
Date Collected: 05/23/17 07:35
Date Received: 05/24/17 09:15

Lab Sample ID: 180-66622-7
Matrix: Solid
Percent Solids: 94.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		70	24	ug/Kg	☼	05/31/17 13:09	06/01/17 14:36	1
Acenaphthylene	ND		70	24	ug/Kg	☼	05/31/17 13:09	06/01/17 14:36	1
Acetophenone	ND		700	24	ug/Kg	☼	05/31/17 13:09	06/01/17 14:36	1
Anthracene	**40**	**J**	70	26	ug/Kg	☼	05/31/17 13:09	06/01/17 14:36	1
Atrazine	ND		700	48	ug/Kg	☼	05/31/17 13:09	06/01/17 14:36	1
Benzaldehyde	ND	*	700	23	ug/Kg	☼	05/31/17 13:09	06/01/17 14:36	1
Benzo[a]anthracene	**130**		70	28	ug/Kg	☼	05/31/17 13:09	06/01/17 14:36	1
Benzo[a]pyrene	**110**		70	29	ug/Kg	☼	05/31/17 13:09	06/01/17 14:36	1
Benzo[b]fluoranthene	**130**		70	30	ug/Kg	☼	05/31/17 13:09	06/01/17 14:36	1
Benzo[g,h,i]perylene	**63**	**J**	70	30	ug/Kg	☼	05/31/17 13:09	06/01/17 14:36	1
Benzo[k]fluoranthene	**70**		70	24	ug/Kg	☼	05/31/17 13:09	06/01/17 14:36	1
1,1'-Biphenyl	ND		350	28	ug/Kg	☼	05/31/17 13:09	06/01/17 14:36	1
Bis(2-chloroethoxy)methane	ND		350	20	ug/Kg	☼	05/31/17 13:09	06/01/17 14:36	1
Bis(2-chloroethyl)ether	ND		70	21	ug/Kg	☼	05/31/17 13:09	06/01/17 14:36	1
Bis(2-ethylhexyl) phthalate	ND		700	230	ug/Kg	☼	05/31/17 13:09	06/01/17 14:36	1
4-Bromophenyl phenyl ether	ND		350	33	ug/Kg	☼	05/31/17 13:09	06/01/17 14:36	1
Butyl benzyl phthalate	ND		350	260	ug/Kg	☼	05/31/17 13:09	06/01/17 14:36	1
Caprolactam	ND		1800	170	ug/Kg	☼	05/31/17 13:09	06/01/17 14:36	1
Carbazole	ND		70	30	ug/Kg	☼	05/31/17 13:09	06/01/17 14:36	1
4-Chloroaniline	ND		350	20	ug/Kg	☼	05/31/17 13:09	06/01/17 14:36	1
4-Chloro-3-methylphenol	ND		350	37	ug/Kg	☼	05/31/17 13:09	06/01/17 14:36	1
2-Chloronaphthalene	ND		70	23	ug/Kg	☼	05/31/17 13:09	06/01/17 14:36	1
2-Chlorophenol	ND		350	25	ug/Kg	☼	05/31/17 13:09	06/01/17 14:36	1
4-Chlorophenyl phenyl ether	ND		350	25	ug/Kg	☼	05/31/17 13:09	06/01/17 14:36	1
Chrysene	**100**		70	27	ug/Kg	☼	05/31/17 13:09	06/01/17 14:36	1
Dibenz(a,h)anthracene	ND		70	29	ug/Kg	☼	05/31/17 13:09	06/01/17 14:36	1
Dibenzofuran	ND		350	28	ug/Kg	☼	05/31/17 13:09	06/01/17 14:36	1
3,3'-Dichlorobenzidine	ND		350	150	ug/Kg	☼	05/31/17 13:09	06/01/17 14:36	1
2,4-Dichlorophenol	ND		70	28	ug/Kg	☼	05/31/17 13:09	06/01/17 14:36	1
Diethyl phthalate	ND		350	31	ug/Kg	☼	05/31/17 13:09	06/01/17 14:36	1
2,4-Dimethylphenol	ND		350	27	ug/Kg	☼	05/31/17 13:09	06/01/17 14:36	1
Dimethyl phthalate	ND		350	24	ug/Kg	☼	05/31/17 13:09	06/01/17 14:36	1
Di-n-butyl phthalate	ND		350	28	ug/Kg	☼	05/31/17 13:09	06/01/17 14:36	1
4,6-Dinitro-2-methylphenol	ND		1800	650	ug/Kg	☼	05/31/17 13:09	06/01/17 14:36	1
2,4-Dinitrophenol	ND		3500	710	ug/Kg	☼	05/31/17 13:09	06/01/17 14:36	1
2,4-Dinitrotoluene	ND		350	46	ug/Kg	☼	05/31/17 13:09	06/01/17 14:36	1
2,6-Dinitrotoluene	ND		350	24	ug/Kg	☼	05/31/17 13:09	06/01/17 14:36	1
Di-n-octyl phthalate	ND		350	41	ug/Kg	☼	05/31/17 13:09	06/01/17 14:36	1
1,4-Dioxane	ND		700	53	ug/Kg	☼	05/31/17 13:09	06/01/17 14:36	1
Fluoranthene	**300**		70	28	ug/Kg	☼	05/31/17 13:09	06/01/17 14:36	1
Fluorene	ND		70	25	ug/Kg	☼	05/31/17 13:09	06/01/17 14:36	1
Hexachlorobenzene	ND		70	28	ug/Kg	☼	05/31/17 13:09	06/01/17 14:36	1
Hexachlorobutadiene	ND		70	22	ug/Kg	☼	05/31/17 13:09	06/01/17 14:36	1
Hexachlorocyclopentadiene	ND		350	30	ug/Kg	☼	05/31/17 13:09	06/01/17 14:36	1
Hexachloroethane	ND		350	25	ug/Kg	☼	05/31/17 13:09	06/01/17 14:36	1
Indeno[1,2,3-cd]pyrene	**62**	**J**	70	27	ug/Kg	☼	05/31/17 13:09	06/01/17 14:36	1
Isophorone	ND		350	19	ug/Kg	☼	05/31/17 13:09	06/01/17 14:36	1
2-Methylnaphthalene	ND		70	27	ug/Kg	☼	05/31/17 13:09	06/01/17 14:36	1
2-Methylphenol	ND		350	31	ug/Kg	☼	05/31/17 13:09	06/01/17 14:36	1

Client Sample ID: SSHS-B821-SUB-12-14
Date Collected: 05/23/17 07:35
Date Received: 05/24/17 09:15

Lab Sample ID: 180-66622-7
Matrix: Solid
Percent Solids: 94.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylphenol, 3 & 4	ND		350	31	ug/Kg	☼	05/31/17 13:09	06/01/17 14:36	1
Naphthalene	ND		70	25	ug/Kg	☼	05/31/17 13:09	06/01/17 14:36	1
2-Nitroaniline	ND		1800	120	ug/Kg	☼	05/31/17 13:09	06/01/17 14:36	1
3-Nitroaniline	ND		1800	100	ug/Kg	☼	05/31/17 13:09	06/01/17 14:36	1
4-Nitroaniline	ND		1800	130	ug/Kg	☼	05/31/17 13:09	06/01/17 14:36	1
Nitrobenzene	ND		700	27	ug/Kg	☼	05/31/17 13:09	06/01/17 14:36	1
2-Nitrophenol	ND		350	26	ug/Kg	☼	05/31/17 13:09	06/01/17 14:36	1
4-Nitrophenol	ND		1800	370	ug/Kg	☼	05/31/17 13:09	06/01/17 14:36	1
N-Nitrosodi-n-propylamine	ND		70	24	ug/Kg	☼	05/31/17 13:09	06/01/17 14:36	1
N-Nitrosodiphenylamine	ND		350	55	ug/Kg	☼	05/31/17 13:09	06/01/17 14:36	1
2,2'-oxybis[1-chloropropane]	ND		70	23	ug/Kg	☼	05/31/17 13:09	06/01/17 14:36	1
Pentachlorophenol	ND		1800	660	ug/Kg	☼	05/31/17 13:09	06/01/17 14:36	1
Phenanthrene	**190**		70	29	ug/Kg	☼	05/31/17 13:09	06/01/17 14:36	1
Phenol	ND		350	47	ug/Kg	☼	05/31/17 13:09	06/01/17 14:36	1
Pyrene	**220**		70	31	ug/Kg	☼	05/31/17 13:09	06/01/17 14:36	1
1,2,4,5-Tetrachlorobenzene	ND		350	25	ug/Kg	☼	05/31/17 13:09	06/01/17 14:36	1
2,3,4,6-Tetrachlorophenol	ND		350	28	ug/Kg	☼	05/31/17 13:09	06/01/17 14:36	1
2,4,5-Trichlorophenol	ND		350	33	ug/Kg	☼	05/31/17 13:09	06/01/17 14:36	1
2,4,6-Trichlorophenol	ND		350	31	ug/Kg	☼	05/31/17 13:09	06/01/17 14:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*57*		*34 - 100*	*05/31/17 13:09*	*06/01/17 14:36*	*1*
2-Fluorophenol (Surr)	*55*		*24 - 109*	*05/31/17 13:09*	*06/01/17 14:36*	*1*
Nitrobenzene-d5 (Surr)	*59*		*31 - 105*	*05/31/17 13:09*	*06/01/17 14:36*	*1*
Phenol-d5 (Surr)	*50*		*24 - 106*	*05/31/17 13:09*	*06/01/17 14:36*	*1*
Terphenyl-d14 (Surr)	*65*		*34 - 104*	*05/31/17 13:09*	*06/01/17 14:36*	*1*
2,4,6-Tribromophenol (Surr)	*62*		*21 - 114*	*05/31/17 13:09*	*06/01/17 14:36*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		18	9.3	ug/Kg	☼	05/31/17 03:47	05/31/17 16:32	1
PCB-1221	ND		18	9.1	ug/Kg	☼	05/31/17 03:47	05/31/17 16:32	1
PCB-1232	ND		18	7.0	ug/Kg	☼	05/31/17 03:47	05/31/17 16:32	1
PCB-1242	ND		18	14	ug/Kg	☼	05/31/17 03:47	05/31/17 16:32	1
PCB-1248	ND		18	8.4	ug/Kg	☼	05/31/17 03:47	05/31/17 16:32	1
PCB-1254	ND		18	7.7	ug/Kg	☼	05/31/17 03:47	05/31/17 16:32	1
PCB-1260	ND		18	12	ug/Kg	☼	05/31/17 03:47	05/31/17 16:32	1
PCB-1262	ND		18	13	ug/Kg	☼	05/31/17 03:47	05/31/17 16:32	1
PCB-1268	ND		18	5.4	ug/Kg	☼	05/31/17 03:47	05/31/17 16:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*80*		*23 - 150*	*05/31/17 03:47*	*05/31/17 16:32*	*1*
DCB Decachlorobiphenyl (Surr)	*83*		*23 - 150*	*05/31/17 03:47*	*05/31/17 16:32*	*1*
Tetrachloro-m-xylene (Surr)	*78*		*27 - 138*	*05/31/17 03:47*	*05/31/17 16:32*	*1*
Tetrachloro-m-xylene (Surr)	*82*		*27 - 138*	*05/31/17 03:47*	*05/31/17 16:32*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**5.8**		0.1	0.1	%			05/31/17 16:46	1
Percent Solids	**94.2**		0.1	0.1	%			05/31/17 16:46	1

Client Sample ID: SSHS-B821-SUB-14-16
Date Collected: 05/23/17 07:35
Date Received: 05/24/17 09:15

Lab Sample ID: 180-66622-8
Matrix: Solid
Percent Solids: 92.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		72	24	ug/Kg	☼	05/31/17 13:09	06/01/17 15:03	1
Acenaphthylene	ND		72	24	ug/Kg	☼	05/31/17 13:09	06/01/17 15:03	1
Acetophenone	ND		720	25	ug/Kg	☼	05/31/17 13:09	06/01/17 15:03	1
Anthracene	ND		72	26	ug/Kg	☼	05/31/17 13:09	06/01/17 15:03	1
Atrazine	ND		720	49	ug/Kg	☼	05/31/17 13:09	06/01/17 15:03	1
Benzaldehyde	ND	*	720	23	ug/Kg	☼	05/31/17 13:09	06/01/17 15:03	1
Benzo[a]anthracene	ND		72	28	ug/Kg	☼	05/31/17 13:09	06/01/17 15:03	1
Benzo[a]pyrene	ND		72	30	ug/Kg	☼	05/31/17 13:09	06/01/17 15:03	1
Benzo[b]fluoranthene	ND		72	31	ug/Kg	☼	05/31/17 13:09	06/01/17 15:03	1
Benzo[g,h,i]perylene	ND		72	31	ug/Kg	☼	05/31/17 13:09	06/01/17 15:03	1
Benzo[k]fluoranthene	ND		72	25	ug/Kg	☼	05/31/17 13:09	06/01/17 15:03	1
1,1'-Biphenyl	ND		350	28	ug/Kg	☼	05/31/17 13:09	06/01/17 15:03	1
Bis(2-chloroethoxy)methane	ND		350	21	ug/Kg	☼	05/31/17 13:09	06/01/17 15:03	1
Bis(2-chloroethyl)ether	ND		72	21	ug/Kg	☼	05/31/17 13:09	06/01/17 15:03	1
Bis(2-ethylhexyl) phthalate	ND		720	240	ug/Kg	☼	05/31/17 13:09	06/01/17 15:03	1
4-Bromophenyl phenyl ether	ND		350	34	ug/Kg	☼	05/31/17 13:09	06/01/17 15:03	1
Butyl benzyl phthalate	ND		350	270	ug/Kg	☼	05/31/17 13:09	06/01/17 15:03	1
Caprolactam	ND		1800	170	ug/Kg	☼	05/31/17 13:09	06/01/17 15:03	1
Carbazole	ND		72	31	ug/Kg	☼	05/31/17 13:09	06/01/17 15:03	1
4-Chloroaniline	ND		350	20	ug/Kg	☼	05/31/17 13:09	06/01/17 15:03	1
4-Chloro-3-methylphenol	ND		350	38	ug/Kg	☼	05/31/17 13:09	06/01/17 15:03	1
2-Chloronaphthalene	ND		72	23	ug/Kg	☼	05/31/17 13:09	06/01/17 15:03	1
2-Chlorophenol	ND		350	26	ug/Kg	☼	05/31/17 13:09	06/01/17 15:03	1
4-Chlorophenyl phenyl ether	ND		350	26	ug/Kg	☼	05/31/17 13:09	06/01/17 15:03	1
Chrysene	ND		72	28	ug/Kg	☼	05/31/17 13:09	06/01/17 15:03	1
Dibenz(a,h)anthracene	ND		72	30	ug/Kg	☼	05/31/17 13:09	06/01/17 15:03	1
Dibenzofuran	ND		350	29	ug/Kg	☼	05/31/17 13:09	06/01/17 15:03	1
3,3'-Dichlorobenzidine	ND		350	150	ug/Kg	☼	05/31/17 13:09	06/01/17 15:03	1
2,4-Dichlorophenol	ND		72	29	ug/Kg	☼	05/31/17 13:09	06/01/17 15:03	1
Diethyl phthalate	ND		350	32	ug/Kg	☼	05/31/17 13:09	06/01/17 15:03	1
2,4-Dimethylphenol	ND		350	28	ug/Kg	☼	05/31/17 13:09	06/01/17 15:03	1
Dimethyl phthalate	ND		350	25	ug/Kg	☼	05/31/17 13:09	06/01/17 15:03	1
Di-n-butyl phthalate	ND		350	28	ug/Kg	☼	05/31/17 13:09	06/01/17 15:03	1
4,6-Dinitro-2-methylphenol	ND		1800	660	ug/Kg	☼	05/31/17 13:09	06/01/17 15:03	1
2,4-Dinitrophenol	ND		3500	720	ug/Kg	☼	05/31/17 13:09	06/01/17 15:03	1
2,4-Dinitrotoluene	ND		350	47	ug/Kg	☼	05/31/17 13:09	06/01/17 15:03	1
2,6-Dinitrotoluene	ND		350	25	ug/Kg	☼	05/31/17 13:09	06/01/17 15:03	1
Di-n-octyl phthalate	ND		350	42	ug/Kg	☼	05/31/17 13:09	06/01/17 15:03	1
1,4-Dioxane	ND		720	54	ug/Kg	☼	05/31/17 13:09	06/01/17 15:03	1
Fluoranthene	ND		72	28	ug/Kg	☼	05/31/17 13:09	06/01/17 15:03	1
Fluorene	ND		72	25	ug/Kg	☼	05/31/17 13:09	06/01/17 15:03	1
Hexachlorobenzene	ND		72	29	ug/Kg	☼	05/31/17 13:09	06/01/17 15:03	1
Hexachlorobutadiene	ND		72	23	ug/Kg	☼	05/31/17 13:09	06/01/17 15:03	1
Hexachlorocyclopentadiene	ND		350	30	ug/Kg	☼	05/31/17 13:09	06/01/17 15:03	1
Hexachloroethane	ND		350	26	ug/Kg	☼	05/31/17 13:09	06/01/17 15:03	1
Indeno[1,2,3-cd]pyrene	ND		72	28	ug/Kg	☼	05/31/17 13:09	06/01/17 15:03	1
Isophorone	ND		350	20	ug/Kg	☼	05/31/17 13:09	06/01/17 15:03	1
2-Methylnaphthalene	ND		72	27	ug/Kg	☼	05/31/17 13:09	06/01/17 15:03	1
2-Methylphenol	ND		350	32	ug/Kg	☼	05/31/17 13:09	06/01/17 15:03	1

Client Sample ID: SSHS-B821-SUB-14-16
Date Collected: 05/23/17 07:35
Date Received: 05/24/17 09:15

Lab Sample ID: 180-66622-8
Matrix: Solid
Percent Solids: 92.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylphenol, 3 & 4	ND		350	32	ug/Kg	☼	05/31/17 13:09	06/01/17 15:03	1
Naphthalene	ND		72	26	ug/Kg	☼	05/31/17 13:09	06/01/17 15:03	1
2-Nitroaniline	ND		1800	120	ug/Kg	☼	05/31/17 13:09	06/01/17 15:03	1
3-Nitroaniline	ND		1800	100	ug/Kg	☼	05/31/17 13:09	06/01/17 15:03	1
4-Nitroaniline	ND		1800	130	ug/Kg	☼	05/31/17 13:09	06/01/17 15:03	1
Nitrobenzene	ND		720	27	ug/Kg	☼	05/31/17 13:09	06/01/17 15:03	1
2-Nitrophenol	ND		350	26	ug/Kg	☼	05/31/17 13:09	06/01/17 15:03	1
4-Nitrophenol	ND		1800	380	ug/Kg	☼	05/31/17 13:09	06/01/17 15:03	1
N-Nitrosodi-n-propylamine	ND		72	24	ug/Kg	☼	05/31/17 13:09	06/01/17 15:03	1
N-Nitrosodiphenylamine	ND		350	56	ug/Kg	☼	05/31/17 13:09	06/01/17 15:03	1
2,2'-oxybis[1-chloropropane]	ND		72	23	ug/Kg	☼	05/31/17 13:09	06/01/17 15:03	1
Pentachlorophenol	ND		1800	680	ug/Kg	☼	05/31/17 13:09	06/01/17 15:03	1
Phenanthrene	ND		72	30	ug/Kg	☼	05/31/17 13:09	06/01/17 15:03	1
Phenol	ND		350	48	ug/Kg	☼	05/31/17 13:09	06/01/17 15:03	1
Pyrene	ND		72	32	ug/Kg	☼	05/31/17 13:09	06/01/17 15:03	1
1,2,4,5-Tetrachlorobenzene	ND		350	26	ug/Kg	☼	05/31/17 13:09	06/01/17 15:03	1
2,3,4,6-Tetrachlorophenol	ND		350	29	ug/Kg	☼	05/31/17 13:09	06/01/17 15:03	1
2,4,5-Trichlorophenol	ND		350	34	ug/Kg	☼	05/31/17 13:09	06/01/17 15:03	1
2,4,6-Trichlorophenol	ND		350	31	ug/Kg	☼	05/31/17 13:09	06/01/17 15:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*67*		*34 - 100*	*05/31/17 13:09*	*06/01/17 15:03*	*1*
2-Fluorophenol (Surr)	*65*		*24 - 109*	*05/31/17 13:09*	*06/01/17 15:03*	*1*
Nitrobenzene-d5 (Surr)	*70*		*31 - 105*	*05/31/17 13:09*	*06/01/17 15:03*	*1*
Phenol-d5 (Surr)	*61*		*24 - 106*	*05/31/17 13:09*	*06/01/17 15:03*	*1*
Terphenyl-d14 (Surr)	*71*		*34 - 104*	*05/31/17 13:09*	*06/01/17 15:03*	*1*
2,4,6-Tribromophenol (Surr)	*73*		*21 - 114*	*05/31/17 13:09*	*06/01/17 15:03*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		18	9.5	ug/Kg	☼	05/31/17 03:47	05/31/17 16:53	1
PCB-1221	ND		18	9.3	ug/Kg	☼	05/31/17 03:47	05/31/17 16:53	1
PCB-1232	ND		18	7.1	ug/Kg	☼	05/31/17 03:47	05/31/17 16:53	1
PCB-1242	ND		18	14	ug/Kg	☼	05/31/17 03:47	05/31/17 16:53	1
PCB-1248	ND		18	8.5	ug/Kg	☼	05/31/17 03:47	05/31/17 16:53	1
PCB-1254	ND		18	7.8	ug/Kg	☼	05/31/17 03:47	05/31/17 16:53	1
PCB-1260	ND		18	12	ug/Kg	☼	05/31/17 03:47	05/31/17 16:53	1
PCB-1262	ND		18	13	ug/Kg	☼	05/31/17 03:47	05/31/17 16:53	1
PCB-1268	ND		18	5.4	ug/Kg	☼	05/31/17 03:47	05/31/17 16:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*76*		*23 - 150*	*05/31/17 03:47*	*05/31/17 16:53*	*1*
DCB Decachlorobiphenyl (Surr)	*78*		*23 - 150*	*05/31/17 03:47*	*05/31/17 16:53*	*1*
Tetrachloro-m-xylene (Surr)	*75*		*27 - 138*	*05/31/17 03:47*	*05/31/17 16:53*	*1*
Tetrachloro-m-xylene (Surr)	*78*		*27 - 138*	*05/31/17 03:47*	*05/31/17 16:53*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**8.0**		0.1	0.1	%			05/31/17 16:46	1
Percent Solids	**92.0**		0.1	0.1	%			05/31/17 16:46	1

Client Sample ID: SSHS-B819-SUB-0-2
Date Collected: 05/23/17 07:45
Date Received: 05/24/17 09:15

Lab Sample ID: 180-66622-9
Matrix: Solid
Percent Solids: 89.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		74	25	ug/Kg	☼	05/31/17 13:09	06/01/17 15:31	1
Acenaphthylene	ND		74	25	ug/Kg	☼	05/31/17 13:09	06/01/17 15:31	1
Acetophenone	ND		740	25	ug/Kg	☼	05/31/17 13:09	06/01/17 15:31	1
Anthracene	**69**	**J**	74	27	ug/Kg	☼	05/31/17 13:09	06/01/17 15:31	1
Atrazine	ND		740	51	ug/Kg	☼	05/31/17 13:09	06/01/17 15:31	1
Benzaldehyde	ND	*	740	24	ug/Kg	☼	05/31/17 13:09	06/01/17 15:31	1
Benzo[a]anthracene	**350**		74	29	ug/Kg	☼	05/31/17 13:09	06/01/17 15:31	1
Benzo[a]pyrene	**280**		74	31	ug/Kg	☼	05/31/17 13:09	06/01/17 15:31	1
Benzo[b]fluoranthene	**350**		74	32	ug/Kg	☼	05/31/17 13:09	06/01/17 15:31	1
Benzo[g,h,i]perylene	**140**		74	32	ug/Kg	☼	05/31/17 13:09	06/01/17 15:31	1
Benzo[k]fluoranthene	**140**		74	26	ug/Kg	☼	05/31/17 13:09	06/01/17 15:31	1
1,1'-Biphenyl	ND		370	29	ug/Kg	☼	05/31/17 13:09	06/01/17 15:31	1
Bis(2-chloroethoxy)methane	ND		370	21	ug/Kg	☼	05/31/17 13:09	06/01/17 15:31	1
Bis(2-chloroethyl)ether	ND		74	22	ug/Kg	☼	05/31/17 13:09	06/01/17 15:31	1
Bis(2-ethylhexyl) phthalate	ND		740	250	ug/Kg	☼	05/31/17 13:09	06/01/17 15:31	1
4-Bromophenyl phenyl ether	ND		370	35	ug/Kg	☼	05/31/17 13:09	06/01/17 15:31	1
Butyl benzyl phthalate	ND		370	280	ug/Kg	☼	05/31/17 13:09	06/01/17 15:31	1
Caprolactam	ND		1900	180	ug/Kg	☼	05/31/17 13:09	06/01/17 15:31	1
Carbazole	**34**	**J**	74	32	ug/Kg	☼	05/31/17 13:09	06/01/17 15:31	1
4-Chloroaniline	ND		370	21	ug/Kg	☼	05/31/17 13:09	06/01/17 15:31	1
4-Chloro-3-methylphenol	ND		370	39	ug/Kg	☼	05/31/17 13:09	06/01/17 15:31	1
2-Chloronaphthalene	ND		74	24	ug/Kg	☼	05/31/17 13:09	06/01/17 15:31	1
2-Chlorophenol	ND		370	27	ug/Kg	☼	05/31/17 13:09	06/01/17 15:31	1
4-Chlorophenyl phenyl ether	ND		370	27	ug/Kg	☼	05/31/17 13:09	06/01/17 15:31	1
Chrysene	**250**		74	29	ug/Kg	☼	05/31/17 13:09	06/01/17 15:31	1
Dibenz(a,h)anthracene	**38**	**J**	74	31	ug/Kg	☼	05/31/17 13:09	06/01/17 15:31	1
Dibenzofuran	ND		370	30	ug/Kg	☼	05/31/17 13:09	06/01/17 15:31	1
3,3'-Dichlorobenzidine	ND		370	150	ug/Kg	☼	05/31/17 13:09	06/01/17 15:31	1
2,4-Dichlorophenol	ND		74	30	ug/Kg	☼	05/31/17 13:09	06/01/17 15:31	1
Diethyl phthalate	ND		370	33	ug/Kg	☼	05/31/17 13:09	06/01/17 15:31	1
2,4-Dimethylphenol	ND		370	29	ug/Kg	☼	05/31/17 13:09	06/01/17 15:31	1
Dimethyl phthalate	ND		370	26	ug/Kg	☼	05/31/17 13:09	06/01/17 15:31	1
Di-n-butyl phthalate	ND		370	29	ug/Kg	☼	05/31/17 13:09	06/01/17 15:31	1
4,6-Dinitro-2-methylphenol	ND		1900	680	ug/Kg	☼	05/31/17 13:09	06/01/17 15:31	1
2,4-Dinitrophenol	ND		3700	750	ug/Kg	☼	05/31/17 13:09	06/01/17 15:31	1
2,4-Dinitrotoluene	ND		370	49	ug/Kg	☼	05/31/17 13:09	06/01/17 15:31	1
2,6-Dinitrotoluene	ND		370	26	ug/Kg	☼	05/31/17 13:09	06/01/17 15:31	1
Di-n-octyl phthalate	ND		370	44	ug/Kg	☼	05/31/17 13:09	06/01/17 15:31	1
1,4-Dioxane	ND		740	56	ug/Kg	☼	05/31/17 13:09	06/01/17 15:31	1
Fluoranthene	**660**		74	29	ug/Kg	☼	05/31/17 13:09	06/01/17 15:31	1
Fluorene	ND		74	26	ug/Kg	☼	05/31/17 13:09	06/01/17 15:31	1
Hexachlorobenzene	ND		74	30	ug/Kg	☼	05/31/17 13:09	06/01/17 15:31	1
Hexachlorobutadiene	ND		74	23	ug/Kg	☼	05/31/17 13:09	06/01/17 15:31	1
Hexachlorocyclopentadiene	ND		370	31	ug/Kg	☼	05/31/17 13:09	06/01/17 15:31	1
Hexachloroethane	ND		370	27	ug/Kg	☼	05/31/17 13:09	06/01/17 15:31	1
Indeno[1,2,3-cd]pyrene	**140**		74	29	ug/Kg	☼	05/31/17 13:09	06/01/17 15:31	1
Isophorone	ND		370	20	ug/Kg	☼	05/31/17 13:09	06/01/17 15:31	1
2-Methylnaphthalene	ND		74	28	ug/Kg	☼	05/31/17 13:09	06/01/17 15:31	1
2-Methylphenol	ND		370	33	ug/Kg	☼	05/31/17 13:09	06/01/17 15:31	1

Client Sample ID: SSHS-B819-SUB-0-2
Date Collected: 05/23/17 07:45
Date Received: 05/24/17 09:15

Lab Sample ID: 180-66622-9
Matrix: Solid
Percent Solids: 89.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylphenol, 3 & 4	ND		370	33	ug/Kg	☼	05/31/17 13:09	06/01/17 15:31	1
Naphthalene	**29**	**J**	74	27	ug/Kg	☼	05/31/17 13:09	06/01/17 15:31	1
2-Nitroaniline	ND		1900	130	ug/Kg	☼	05/31/17 13:09	06/01/17 15:31	1
3-Nitroaniline	ND		1900	110	ug/Kg	☼	05/31/17 13:09	06/01/17 15:31	1
4-Nitroaniline	ND		1900	130	ug/Kg	☼	05/31/17 13:09	06/01/17 15:31	1
Nitrobenzene	ND		740	28	ug/Kg	☼	05/31/17 13:09	06/01/17 15:31	1
2-Nitrophenol	ND		370	27	ug/Kg	☼	05/31/17 13:09	06/01/17 15:31	1
4-Nitrophenol	ND		1900	390	ug/Kg	☼	05/31/17 13:09	06/01/17 15:31	1
N-Nitrosodi-n-propylamine	ND		74	25	ug/Kg	☼	05/31/17 13:09	06/01/17 15:31	1
N-Nitrosodiphenylamine	ND		370	58	ug/Kg	☼	05/31/17 13:09	06/01/17 15:31	1
2,2'-oxybis[1-chloropropane]	ND		74	24	ug/Kg	☼	05/31/17 13:09	06/01/17 15:31	1
Pentachlorophenol	ND		1900	700	ug/Kg	☼	05/31/17 13:09	06/01/17 15:31	1
Phenanthrene	**260**		74	31	ug/Kg	☼	05/31/17 13:09	06/01/17 15:31	1
Phenol	ND		370	50	ug/Kg	☼	05/31/17 13:09	06/01/17 15:31	1
Pyrene	**520**		74	33	ug/Kg	☼	05/31/17 13:09	06/01/17 15:31	1
1,2,4,5-Tetrachlorobenzene	ND		370	27	ug/Kg	☼	05/31/17 13:09	06/01/17 15:31	1
2,3,4,6-Tetrachlorophenol	ND		370	30	ug/Kg	☼	05/31/17 13:09	06/01/17 15:31	1
2,4,5-Trichlorophenol	ND		370	35	ug/Kg	☼	05/31/17 13:09	06/01/17 15:31	1
2,4,6-Trichlorophenol	ND		370	32	ug/Kg	☼	05/31/17 13:09	06/01/17 15:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*64*		*34 - 100*	*05/31/17 13:09*	*06/01/17 15:31*	*1*
2-Fluorophenol (Surr)	*48*		*24 - 109*	*05/31/17 13:09*	*06/01/17 15:31*	*1*
Nitrobenzene-d5 (Surr)	*62*		*31 - 105*	*05/31/17 13:09*	*06/01/17 15:31*	*1*
Phenol-d5 (Surr)	*50*		*24 - 106*	*05/31/17 13:09*	*06/01/17 15:31*	*1*
Terphenyl-d14 (Surr)	*67*		*34 - 104*	*05/31/17 13:09*	*06/01/17 15:31*	*1*
2,4,6-Tribromophenol (Surr)	*71*		*21 - 114*	*05/31/17 13:09*	*06/01/17 15:31*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		19	9.9	ug/Kg	☼	05/31/17 03:47	05/31/17 17:14	1
PCB-1221	ND		19	9.6	ug/Kg	☼	05/31/17 03:47	05/31/17 17:14	1
PCB-1232	ND		19	7.4	ug/Kg	☼	05/31/17 03:47	05/31/17 17:14	1
PCB-1242	ND		19	15	ug/Kg	☼	05/31/17 03:47	05/31/17 17:14	1
PCB-1248	ND		19	8.9	ug/Kg	☼	05/31/17 03:47	05/31/17 17:14	1
PCB-1254	ND		19	8.2	ug/Kg	☼	05/31/17 03:47	05/31/17 17:14	1
PCB-1260	ND		19	12	ug/Kg	☼	05/31/17 03:47	05/31/17 17:14	1
PCB-1262	ND		19	13	ug/Kg	☼	05/31/17 03:47	05/31/17 17:14	1
PCB-1268	ND		19	5.7	ug/Kg	☼	05/31/17 03:47	05/31/17 17:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*64*		*23 - 150*	*05/31/17 03:47*	*05/31/17 17:14*	*1*
DCB Decachlorobiphenyl (Surr)	*66*		*23 - 150*	*05/31/17 03:47*	*05/31/17 17:14*	*1*
Tetrachloro-m-xylene (Surr)	*64*		*27 - 138*	*05/31/17 03:47*	*05/31/17 17:14*	*1*
Tetrachloro-m-xylene (Surr)	*67*		*27 - 138*	*05/31/17 03:47*	*05/31/17 17:14*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**8100**		23	8.7	mg/Kg	☼	06/27/17 12:53	06/28/17 16:31	1
Antimony	ND		1.1	0.40	mg/Kg	☼	06/27/17 12:53	06/28/17 16:31	1

Client Sample ID: SSHS-B819-SUB-0-2

Lab Sample ID: 180-66622-9
Date Collected: 05/23/17 07:45
Matrix: Solid
Date Received: 05/24/17 09:15
Percent Solids: 89.5

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.7		1.1	0.50	mg/Kg	☼	06/27/17 12:53	06/28/17 16:31	1
Barium	65		23	6.1	mg/Kg	☼	06/27/17 12:53	06/28/17 16:31	1
Beryllium	0.37	J	0.46	0.12	mg/Kg	☼	06/27/17 12:53	06/28/17 16:31	1
Cadmium	0.15	J	0.57	0.13	mg/Kg	☼	06/27/17 12:53	06/28/17 16:31	1
Calcium	45000		570	160	mg/Kg	☼	06/27/17 12:53	06/28/17 16:31	1
Chromium	9.7		0.57	0.15	mg/Kg	☼	06/27/17 12:53	06/28/17 16:31	1
Cobalt	7.4		5.7	1.3	mg/Kg	☼	06/27/17 12:53	06/28/17 16:31	1
Copper	18		2.9	0.88	mg/Kg	☼	06/27/17 12:53	06/28/17 16:31	1
Iron	16000		11	6.3	mg/Kg	☼	06/27/17 12:53	06/28/17 16:31	1
Lead	12		1.1	0.37	mg/Kg	☼	06/27/17 12:53	06/28/17 16:31	1
Magnesium	3200		570	150	mg/Kg	☼	06/27/17 12:53	06/28/17 16:31	1
Manganese	470		1.7	0.46	mg/Kg	☼	06/27/17 12:53	06/28/17 16:31	1
Nickel	17		4.6	1.0	mg/Kg	☼	06/27/17 12:53	06/28/17 16:31	1
Potassium	650		570	140	mg/Kg	☼	06/27/17 12:53	06/28/17 16:31	1
Selenium	0.69	J	1.1	0.45	mg/Kg	☼	06/27/17 12:53	06/28/17 16:31	1
Silver	ND		0.57	0.19	mg/Kg	☼	06/27/17 12:53	06/28/17 16:31	1
Sodium	ND		570	160	mg/Kg	☼	06/27/17 12:53	06/28/17 16:31	1
Thallium	ND		2.3	0.57	mg/Kg	☼	06/27/17 12:53	06/28/17 16:31	1
Vanadium	12		5.7	1.8	mg/Kg	☼	06/27/17 12:53	06/28/17 16:31	1
Zinc	50		2.3	1.2	mg/Kg	☼	06/27/17 12:53	06/28/17 16:31	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.039		0.038	0.0084	mg/Kg	☼	06/20/17 07:31	06/20/17 10:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	10.5		0.1	0.1	%			05/31/17 16:46	1
Percent Solids	89.5		0.1	0.1	%			05/31/17 16:46	1

Client Sample ID: SSHS-B819-SUB-2-4

Lab Sample ID: 180-66622-10
Date Collected: 05/23/17 07:45
Matrix: Solid
Date Received: 05/24/17 09:15
Percent Solids: 87.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		76	25	ug/Kg	☼	05/31/17 13:09	06/01/17 15:58	1
Acenaphthylene	ND		76	26	ug/Kg	☼	05/31/17 13:09	06/01/17 15:58	1
Acetophenone	ND		760	26	ug/Kg	☼	05/31/17 13:09	06/01/17 15:58	1
Anthracene	ND		76	28	ug/Kg	☼	05/31/17 13:09	06/01/17 15:58	1
Atrazine	ND		760	52	ug/Kg	☼	05/31/17 13:09	06/01/17 15:58	1
Benzaldehyde	ND	*	760	25	ug/Kg	☼	05/31/17 13:09	06/01/17 15:58	1
Benzo[a]anthracene	ND		76	30	ug/Kg	☼	05/31/17 13:09	06/01/17 15:58	1
Benzo[a]pyrene	ND		76	31	ug/Kg	☼	05/31/17 13:09	06/01/17 15:58	1
Benzo[b]fluoranthene	ND		76	33	ug/Kg	☼	05/31/17 13:09	06/01/17 15:58	1
Benzo[g,h,i]perylene	ND		76	33	ug/Kg	☼	05/31/17 13:09	06/01/17 15:58	1
Benzo[k]fluoranthene	ND		76	26	ug/Kg	☼	05/31/17 13:09	06/01/17 15:58	1
1,1'-Biphenyl	ND		370	30	ug/Kg	☼	05/31/17 13:09	06/01/17 15:58	1
Bis(2-chloroethoxy)methane	ND		370	22	ug/Kg	☼	05/31/17 13:09	06/01/17 15:58	1
Bis(2-chloroethyl)ether	ND		76	22	ug/Kg	☼	05/31/17 13:09	06/01/17 15:58	1

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North

TestAmerica Job ID: 180-66622-2

Client Sample ID: SSHS-B819-SUB-2-4
Date Collected: 05/23/17 07:45
Date Received: 05/24/17 09:15

Lab Sample ID: 180-66622-10
Matrix: Solid
Percent Solids: 87.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-ethylhexyl) phthalate	ND		760	250	ug/Kg	☼	05/31/17 13:09	06/01/17 15:58	1
4-Bromophenyl phenyl ether	ND		370	36	ug/Kg	☼	05/31/17 13:09	06/01/17 15:58	1
Butyl benzyl phthalate	ND		370	280	ug/Kg	☼	05/31/17 13:09	06/01/17 15:58	1
Caprolactam	ND		1900	180	ug/Kg	☼	05/31/17 13:09	06/01/17 15:58	1
Carbazole	ND		76	32	ug/Kg	☼	05/31/17 13:09	06/01/17 15:58	1
4-Chloroaniline	ND		370	21	ug/Kg	☼	05/31/17 13:09	06/01/17 15:58	1
4-Chloro-3-methylphenol	ND		370	40	ug/Kg	☼	05/31/17 13:09	06/01/17 15:58	1
2-Chloronaphthalene	ND		76	25	ug/Kg	☼	05/31/17 13:09	06/01/17 15:58	1
2-Chlorophenol	ND		370	27	ug/Kg	☼	05/31/17 13:09	06/01/17 15:58	1
4-Chlorophenyl phenyl ether	ND		370	27	ug/Kg	☼	05/31/17 13:09	06/01/17 15:58	1
Chrysene	ND		76	29	ug/Kg	☼	05/31/17 13:09	06/01/17 15:58	1
Dibenz(a,h)anthracene	ND		76	31	ug/Kg	☼	05/31/17 13:09	06/01/17 15:58	1
Dibenzofuran	ND		370	30	ug/Kg	☼	05/31/17 13:09	06/01/17 15:58	1
3,3'-Dichlorobenzidine	ND		370	160	ug/Kg	☼	05/31/17 13:09	06/01/17 15:58	1
2,4-Dichlorophenol	ND		76	31	ug/Kg	☼	05/31/17 13:09	06/01/17 15:58	1
Diethyl phthalate	ND		370	33	ug/Kg	☼	05/31/17 13:09	06/01/17 15:58	1
2,4-Dimethylphenol	ND		370	29	ug/Kg	☼	05/31/17 13:09	06/01/17 15:58	1
Dimethyl phthalate	ND		370	26	ug/Kg	☼	05/31/17 13:09	06/01/17 15:58	1
Di-n-butyl phthalate	ND		370	30	ug/Kg	☼	05/31/17 13:09	06/01/17 15:58	1
4,6-Dinitro-2-methylphenol	ND		1900	700	ug/Kg	☼	05/31/17 13:09	06/01/17 15:58	1
2,4-Dinitrophenol	ND		3700	760	ug/Kg	☼	05/31/17 13:09	06/01/17 15:58	1
2,4-Dinitrotoluene	ND		370	50	ug/Kg	☼	05/31/17 13:09	06/01/17 15:58	1
2,6-Dinitrotoluene	ND		370	26	ug/Kg	☼	05/31/17 13:09	06/01/17 15:58	1
Di-n-octyl phthalate	ND		370	45	ug/Kg	☼	05/31/17 13:09	06/01/17 15:58	1
1,4-Dioxane	ND		760	57	ug/Kg	☼	05/31/17 13:09	06/01/17 15:58	1
Fluoranthene	ND		76	30	ug/Kg	☼	05/31/17 13:09	06/01/17 15:58	1
Fluorene	ND		76	27	ug/Kg	☼	05/31/17 13:09	06/01/17 15:58	1
Hexachlorobenzene	ND		76	30	ug/Kg	☼	05/31/17 13:09	06/01/17 15:58	1
Hexachlorobutadiene	ND		76	24	ug/Kg	☼	05/31/17 13:09	06/01/17 15:58	1
Hexachlorocyclopentadiene	ND		370	32	ug/Kg	☼	05/31/17 13:09	06/01/17 15:58	1
Hexachloroethane	ND		370	27	ug/Kg	☼	05/31/17 13:09	06/01/17 15:58	1
Indeno[1,2,3-cd]pyrene	ND		76	29	ug/Kg	☼	05/31/17 13:09	06/01/17 15:58	1
Isophorone	ND		370	21	ug/Kg	☼	05/31/17 13:09	06/01/17 15:58	1
2-Methylnaphthalene	ND		76	29	ug/Kg	☼	05/31/17 13:09	06/01/17 15:58	1
2-Methylphenol	ND		370	33	ug/Kg	☼	05/31/17 13:09	06/01/17 15:58	1
Methylphenol, 3 & 4	ND		370	33	ug/Kg	☼	05/31/17 13:09	06/01/17 15:58	1
Naphthalene	ND		76	27	ug/Kg	☼	05/31/17 13:09	06/01/17 15:58	1
2-Nitroaniline	ND		1900	130	ug/Kg	☼	05/31/17 13:09	06/01/17 15:58	1
3-Nitroaniline	ND		1900	110	ug/Kg	☼	05/31/17 13:09	06/01/17 15:58	1
4-Nitroaniline	ND		1900	130	ug/Kg	☼	05/31/17 13:09	06/01/17 15:58	1
Nitrobenzene	ND		760	29	ug/Kg	☼	05/31/17 13:09	06/01/17 15:58	1
2-Nitrophenol	ND		370	28	ug/Kg	☼	05/31/17 13:09	06/01/17 15:58	1
4-Nitrophenol	ND		1900	400	ug/Kg	☼	05/31/17 13:09	06/01/17 15:58	1
N-Nitrosodi-n-propylamine	ND		76	26	ug/Kg	☼	05/31/17 13:09	06/01/17 15:58	1
N-Nitrosodiphenylamine	ND		370	59	ug/Kg	☼	05/31/17 13:09	06/01/17 15:58	1
2,2'-oxybis[1-chloropropane]	ND		76	24	ug/Kg	☼	05/31/17 13:09	06/01/17 15:58	1
Pentachlorophenol	ND		1900	710	ug/Kg	☼	05/31/17 13:09	06/01/17 15:58	1
Phenanthrene	ND		76	31	ug/Kg	☼	05/31/17 13:09	06/01/17 15:58	1
Phenol	ND		370	51	ug/Kg	☼	05/31/17 13:09	06/01/17 15:58	1

Client Sample ID: SSHS-B819-SUB-2-4

Date Collected: 05/23/17 07:45
Date Received: 05/24/17 09:15

Lab Sample ID: 180-66622-10

Matrix: Solid
Percent Solids: 87.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyrene	ND		76	34	ug/Kg	☼	05/31/17 13:09	06/01/17 15:58	1
1,2,4,5-Tetrachlorobenzene	ND		370	27	ug/Kg	☼	05/31/17 13:09	06/01/17 15:58	1
2,3,4,6-Tetrachlorophenol	ND		370	30	ug/Kg	☼	05/31/17 13:09	06/01/17 15:58	1
2,4,5-Trichlorophenol	ND		370	36	ug/Kg	☼	05/31/17 13:09	06/01/17 15:58	1
2,4,6-Trichlorophenol	ND		370	33	ug/Kg	☼	05/31/17 13:09	06/01/17 15:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*69*		*34 - 100*	*05/31/17 13:09*	*06/01/17 15:58*	*1*
2-Fluorophenol (Surr)	*72*		*24 - 109*	*05/31/17 13:09*	*06/01/17 15:58*	*1*
Nitrobenzene-d5 (Surr)	*73*		*31 - 105*	*05/31/17 13:09*	*06/01/17 15:58*	*1*
Phenol-d5 (Surr)	*66*		*24 - 106*	*05/31/17 13:09*	*06/01/17 15:58*	*1*
Terphenyl-d14 (Surr)	*67*		*34 - 104*	*05/31/17 13:09*	*06/01/17 15:58*	*1*
2,4,6-Tribromophenol (Surr)	*74*		*21 - 114*	*05/31/17 13:09*	*06/01/17 15:58*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		19	9.9	ug/Kg	☼	05/31/17 03:47	05/31/17 17:36	1
PCB-1221	ND		19	9.7	ug/Kg	☼	05/31/17 03:47	05/31/17 17:36	1
PCB-1232	ND		19	7.4	ug/Kg	☼	05/31/17 03:47	05/31/17 17:36	1
PCB-1242	ND		19	15	ug/Kg	☼	05/31/17 03:47	05/31/17 17:36	1
PCB-1248	ND		19	8.9	ug/Kg	☼	05/31/17 03:47	05/31/17 17:36	1
PCB-1254	ND		19	8.2	ug/Kg	☼	05/31/17 03:47	05/31/17 17:36	1
PCB-1260	ND		19	12	ug/Kg	☼	05/31/17 03:47	05/31/17 17:36	1
PCB-1262	ND		19	13	ug/Kg	☼	05/31/17 03:47	05/31/17 17:36	1
PCB-1268	ND		19	5.7	ug/Kg	☼	05/31/17 03:47	05/31/17 17:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*73*		*23 - 150*	*05/31/17 03:47*	*05/31/17 17:36*	*1*
DCB Decachlorobiphenyl (Surr)	*84*		*23 - 150*	*05/31/17 03:47*	*05/31/17 17:36*	*1*
Tetrachloro-m-xylene (Surr)	*78*		*27 - 138*	*05/31/17 03:47*	*05/31/17 17:36*	*1*
Tetrachloro-m-xylene (Surr)	*81*		*27 - 138*	*05/31/17 03:47*	*05/31/17 17:36*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**12.1**		0.1	0.1	%			05/31/17 16:46	1
Percent Solids	**87.9**		0.1	0.1	%			05/31/17 16:46	1

Client Sample ID: SSHS-B819-SUB-4-6

Date Collected: 05/23/17 07:50
Date Received: 05/24/17 09:15

Lab Sample ID: 180-66622-11

Matrix: Solid
Percent Solids: 90.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		72	24	ug/Kg	☼	05/31/17 13:09	06/01/17 16:26	1
Acenaphthylene	ND		72	24	ug/Kg	☼	05/31/17 13:09	06/01/17 16:26	1
Acetophenone	ND		720	25	ug/Kg	☼	05/31/17 13:09	06/01/17 16:26	1
Anthracene	ND		72	26	ug/Kg	☼	05/31/17 13:09	06/01/17 16:26	1
Atrazine	ND		720	49	ug/Kg	☼	05/31/17 13:09	06/01/17 16:26	1
Benzaldehyde	ND	*	720	23	ug/Kg	☼	05/31/17 13:09	06/01/17 16:26	1
Benzo[a]anthracene	**83**		72	28	ug/Kg	☼	05/31/17 13:09	06/01/17 16:26	1
Benzo[a]pyrene	**65**	**J**	72	30	ug/Kg	☼	05/31/17 13:09	06/01/17 16:26	1

Client Sample ID: SSHS-B819-SUB-4-6
Date Collected: 05/23/17 07:50
Date Received: 05/24/17 09:15

Lab Sample ID: 180-66622-11
Matrix: Solid
Percent Solids: 90.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[b]fluoranthene	**84**		72	31	ug/Kg	☼	05/31/17 13:09	06/01/17 16:26	1
Benzo[g,h,i]perylene	**37**	**J**	72	31	ug/Kg	☼	05/31/17 13:09	06/01/17 16:26	1
Benzo[k]fluoranthene	**50**	**J**	72	25	ug/Kg	☼	05/31/17 13:09	06/01/17 16:26	1
1,1'-Biphenyl	ND		350	28	ug/Kg	☼	05/31/17 13:09	06/01/17 16:26	1
Bis(2-chloroethoxy)methane	ND		350	21	ug/Kg	☼	05/31/17 13:09	06/01/17 16:26	1
Bis(2-chloroethyl)ether	ND		72	21	ug/Kg	☼	05/31/17 13:09	06/01/17 16:26	1
Bis(2-ethylhexyl) phthalate	ND		720	240	ug/Kg	☼	05/31/17 13:09	06/01/17 16:26	1
4-Bromophenyl phenyl ether	ND		350	34	ug/Kg	☼	05/31/17 13:09	06/01/17 16:26	1
Butyl benzyl phthalate	ND		350	260	ug/Kg	☼	05/31/17 13:09	06/01/17 16:26	1
Caprolactam	ND		1800	170	ug/Kg	☼	05/31/17 13:09	06/01/17 16:26	1
Carbazole	ND		72	30	ug/Kg	☼	05/31/17 13:09	06/01/17 16:26	1
4-Chloroaniline	ND		350	20	ug/Kg	☼	05/31/17 13:09	06/01/17 16:26	1
4-Chloro-3-methylphenol	ND		350	37	ug/Kg	☼	05/31/17 13:09	06/01/17 16:26	1
2-Chloronaphthalene	ND		72	23	ug/Kg	☼	05/31/17 13:09	06/01/17 16:26	1
2-Chlorophenol	ND		350	26	ug/Kg	☼	05/31/17 13:09	06/01/17 16:26	1
4-Chlorophenyl phenyl ether	ND		350	26	ug/Kg	☼	05/31/17 13:09	06/01/17 16:26	1
Chrysene	**65**	**J**	72	28	ug/Kg	☼	05/31/17 13:09	06/01/17 16:26	1
Dibenz(a,h)anthracene	ND		72	29	ug/Kg	☼	05/31/17 13:09	06/01/17 16:26	1
Dibenzofuran	ND		350	29	ug/Kg	☼	05/31/17 13:09	06/01/17 16:26	1
3,3'-Dichlorobenzidine	ND		350	150	ug/Kg	☼	05/31/17 13:09	06/01/17 16:26	1
2,4-Dichlorophenol	ND		72	29	ug/Kg	☼	05/31/17 13:09	06/01/17 16:26	1
Diethyl phthalate	ND		350	32	ug/Kg	☼	05/31/17 13:09	06/01/17 16:26	1
2,4-Dimethylphenol	ND		350	27	ug/Kg	☼	05/31/17 13:09	06/01/17 16:26	1
Dimethyl phthalate	ND		350	25	ug/Kg	☼	05/31/17 13:09	06/01/17 16:26	1
Di-n-butyl phthalate	ND		350	28	ug/Kg	☼	05/31/17 13:09	06/01/17 16:26	1
4,6-Dinitro-2-methylphenol	ND		1800	660	ug/Kg	☼	05/31/17 13:09	06/01/17 16:26	1
2,4-Dinitrophenol	ND		3500	720	ug/Kg	☼	05/31/17 13:09	06/01/17 16:26	1
2,4-Dinitrotoluene	ND		350	47	ug/Kg	☼	05/31/17 13:09	06/01/17 16:26	1
2,6-Dinitrotoluene	ND		350	25	ug/Kg	☼	05/31/17 13:09	06/01/17 16:26	1
Di-n-octyl phthalate	ND		350	42	ug/Kg	☼	05/31/17 13:09	06/01/17 16:26	1
1,4-Dioxane	ND		720	54	ug/Kg	☼	05/31/17 13:09	06/01/17 16:26	1
Fluoranthene	**200**		72	28	ug/Kg	☼	05/31/17 13:09	06/01/17 16:26	1
Fluorene	ND		72	25	ug/Kg	☼	05/31/17 13:09	06/01/17 16:26	1
Hexachlorobenzene	ND		72	29	ug/Kg	☼	05/31/17 13:09	06/01/17 16:26	1
Hexachlorobutadiene	ND		72	22	ug/Kg	☼	05/31/17 13:09	06/01/17 16:26	1
Hexachlorocyclopentadiene	ND		350	30	ug/Kg	☼	05/31/17 13:09	06/01/17 16:26	1
Hexachloroethane	ND		350	26	ug/Kg	☼	05/31/17 13:09	06/01/17 16:26	1
Indeno[1,2,3-cd]pyrene	**30**	**J**	72	28	ug/Kg	☼	05/31/17 13:09	06/01/17 16:26	1
Isophorone	ND		350	20	ug/Kg	☼	05/31/17 13:09	06/01/17 16:26	1
2-Methylnaphthalene	ND		72	27	ug/Kg	☼	05/31/17 13:09	06/01/17 16:26	1
2-Methylphenol	ND		350	31	ug/Kg	☼	05/31/17 13:09	06/01/17 16:26	1
Methylphenol, 3 & 4	ND		350	32	ug/Kg	☼	05/31/17 13:09	06/01/17 16:26	1
Naphthalene	ND		72	26	ug/Kg	☼	05/31/17 13:09	06/01/17 16:26	1
2-Nitroaniline	ND		1800	120	ug/Kg	☼	05/31/17 13:09	06/01/17 16:26	1
3-Nitroaniline	ND		1800	100	ug/Kg	☼	05/31/17 13:09	06/01/17 16:26	1
4-Nitroaniline	ND		1800	130	ug/Kg	☼	05/31/17 13:09	06/01/17 16:26	1
Nitrobenzene	ND		720	27	ug/Kg	☼	05/31/17 13:09	06/01/17 16:26	1
2-Nitrophenol	ND		350	26	ug/Kg	☼	05/31/17 13:09	06/01/17 16:26	1
4-Nitrophenol	ND		1800	370	ug/Kg	☼	05/31/17 13:09	06/01/17 16:26	1

Client Sample ID: SSHS-B819-SUB-4-6

Date Collected: 05/23/17 07:50
Date Received: 05/24/17 09:15

Lab Sample ID: 180-66622-11

Matrix: Solid
Percent Solids: 90.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	ND		72	24	ug/Kg	☼	05/31/17 13:09	06/01/17 16:26	1
N-Nitrosodiphenylamine	ND		350	56	ug/Kg	☼	05/31/17 13:09	06/01/17 16:26	1
2,2'-oxybis[1-chloropropane]	ND		72	23	ug/Kg	☼	05/31/17 13:09	06/01/17 16:26	1
Pentachlorophenol	ND		1800	670	ug/Kg	☼	05/31/17 13:09	06/01/17 16:26	1
Phenanthrene	**75**		72	30	ug/Kg	☼	05/31/17 13:09	06/01/17 16:26	1
Phenol	ND		350	48	ug/Kg	☼	05/31/17 13:09	06/01/17 16:26	1
Pyrene	**130**		72	32	ug/Kg	☼	05/31/17 13:09	06/01/17 16:26	1
1,2,4,5-Tetrachlorobenzene	ND		350	26	ug/Kg	☼	05/31/17 13:09	06/01/17 16:26	1
2,3,4,6-Tetrachlorophenol	ND		350	29	ug/Kg	☼	05/31/17 13:09	06/01/17 16:26	1
2,4,5-Trichlorophenol	ND		350	34	ug/Kg	☼	05/31/17 13:09	06/01/17 16:26	1
2,4,6-Trichlorophenol	ND		350	31	ug/Kg	☼	05/31/17 13:09	06/01/17 16:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*65*		*34 - 100*	*05/31/17 13:09*	*06/01/17 16:26*	*1*
2-Fluorophenol (Surr)	*64*		*24 - 109*	*05/31/17 13:09*	*06/01/17 16:26*	*1*
Nitrobenzene-d5 (Surr)	*68*		*31 - 105*	*05/31/17 13:09*	*06/01/17 16:26*	*1*
Phenol-d5 (Surr)	*59*		*24 - 106*	*05/31/17 13:09*	*06/01/17 16:26*	*1*
Terphenyl-d14 (Surr)	*69*		*34 - 104*	*05/31/17 13:09*	*06/01/17 16:26*	*1*
2,4,6-Tribromophenol (Surr)	*73*		*21 - 114*	*05/31/17 13:09*	*06/01/17 16:26*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		18	9.5	ug/Kg	☼	05/31/17 03:47	05/31/17 17:57	1
PCB-1221	ND		18	9.3	ug/Kg	☼	05/31/17 03:47	05/31/17 17:57	1
PCB-1232	ND		18	7.1	ug/Kg	☼	05/31/17 03:47	05/31/17 17:57	1
PCB-1242	ND		18	14	ug/Kg	☼	05/31/17 03:47	05/31/17 17:57	1
PCB-1248	ND		18	8.6	ug/Kg	☼	05/31/17 03:47	05/31/17 17:57	1
PCB-1254	ND		18	7.9	ug/Kg	☼	05/31/17 03:47	05/31/17 17:57	1
PCB-1260	ND		18	12	ug/Kg	☼	05/31/17 03:47	05/31/17 17:57	1
PCB-1262	ND		18	13	ug/Kg	☼	05/31/17 03:47	05/31/17 17:57	1
PCB-1268	ND		18	5.5	ug/Kg	☼	05/31/17 03:47	05/31/17 17:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*79*		*23 - 150*	*05/31/17 03:47*	*05/31/17 17:57*	*1*
DCB Decachlorobiphenyl (Surr)	*87*		*23 - 150*	*05/31/17 03:47*	*05/31/17 17:57*	*1*
Tetrachloro-m-xylene (Surr)	*79*		*27 - 138*	*05/31/17 03:47*	*05/31/17 17:57*	*1*
Tetrachloro-m-xylene (Surr)	*82*		*27 - 138*	*05/31/17 03:47*	*05/31/17 17:57*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.4**		0.1	0.1	%			05/31/17 16:46	1
Percent Solids	**90.6**		0.1	0.1	%			05/31/17 16:46	1

Client Sample ID: DW-FD-1

Date Collected: 05/23/17 00:00
Date Received: 05/24/17 09:15

Lab Sample ID: 180-66622-12

Matrix: Solid
Percent Solids: 92.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		70	24	ug/Kg	☼	05/31/17 13:09	06/01/17 16:53	1
Acenaphthylene	ND		70	24	ug/Kg	☼	05/31/17 13:09	06/01/17 16:53	1

Client Sample ID: DW-FD-1
Date Collected: 05/23/17 00:00
Date Received: 05/24/17 09:15

Lab Sample ID: 180-66622-12
Matrix: Solid
Percent Solids: 92.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetophenone	ND		700	24	ug/Kg	☼	05/31/17 13:09	06/01/17 16:53	1
Anthracene	ND		70	26	ug/Kg	☼	05/31/17 13:09	06/01/17 16:53	1
Atrazine	ND		700	48	ug/Kg	☼	05/31/17 13:09	06/01/17 16:53	1
Benzaldehyde	ND	*	700	23	ug/Kg	☼	05/31/17 13:09	06/01/17 16:53	1
Benzo[a]anthracene	ND		70	28	ug/Kg	☼	05/31/17 13:09	06/01/17 16:53	1
Benzo[a]pyrene	ND		70	29	ug/Kg	☼	05/31/17 13:09	06/01/17 16:53	1
Benzo[b]fluoranthene	ND		70	30	ug/Kg	☼	05/31/17 13:09	06/01/17 16:53	1
Benzo[g,h,i]perylene	ND		70	30	ug/Kg	☼	05/31/17 13:09	06/01/17 16:53	1
Benzo[k]fluoranthene	ND		70	24	ug/Kg	☼	05/31/17 13:09	06/01/17 16:53	1
1,1'-Biphenyl	ND		350	28	ug/Kg	☼	05/31/17 13:09	06/01/17 16:53	1
Bis(2-chloroethoxy)methane	ND		350	20	ug/Kg	☼	05/31/17 13:09	06/01/17 16:53	1
Bis(2-chloroethyl)ether	ND		70	21	ug/Kg	☼	05/31/17 13:09	06/01/17 16:53	1
Bis(2-ethylhexyl) phthalate	ND		700	230	ug/Kg	☼	05/31/17 13:09	06/01/17 16:53	1
4-Bromophenyl phenyl ether	ND		350	33	ug/Kg	☼	05/31/17 13:09	06/01/17 16:53	1
Butyl benzyl phthalate	ND		350	260	ug/Kg	☼	05/31/17 13:09	06/01/17 16:53	1
Caprolactam	ND		1800	170	ug/Kg	☼	05/31/17 13:09	06/01/17 16:53	1
Carbazole	ND		70	30	ug/Kg	☼	05/31/17 13:09	06/01/17 16:53	1
4-Chloroaniline	ND		350	20	ug/Kg	☼	05/31/17 13:09	06/01/17 16:53	1
4-Chloro-3-methylphenol	ND		350	37	ug/Kg	☼	05/31/17 13:09	06/01/17 16:53	1
2-Chloronaphthalene	ND		70	23	ug/Kg	☼	05/31/17 13:09	06/01/17 16:53	1
2-Chlorophenol	ND		350	25	ug/Kg	☼	05/31/17 13:09	06/01/17 16:53	1
4-Chlorophenyl phenyl ether	ND		350	25	ug/Kg	☼	05/31/17 13:09	06/01/17 16:53	1
Chrysene	ND		70	27	ug/Kg	☼	05/31/17 13:09	06/01/17 16:53	1
Dibenz(a,h)anthracene	ND		70	29	ug/Kg	☼	05/31/17 13:09	06/01/17 16:53	1
Dibenzofuran	ND		350	28	ug/Kg	☼	05/31/17 13:09	06/01/17 16:53	1
3,3'-Dichlorobenzidine	ND		350	150	ug/Kg	☼	05/31/17 13:09	06/01/17 16:53	1
2,4-Dichlorophenol	ND		70	29	ug/Kg	☼	05/31/17 13:09	06/01/17 16:53	1
Diethyl phthalate	ND		350	31	ug/Kg	☼	05/31/17 13:09	06/01/17 16:53	1
2,4-Dimethylphenol	ND		350	27	ug/Kg	☼	05/31/17 13:09	06/01/17 16:53	1
Dimethyl phthalate	ND		350	24	ug/Kg	☼	05/31/17 13:09	06/01/17 16:53	1
Di-n-butyl phthalate	ND		350	28	ug/Kg	☼	05/31/17 13:09	06/01/17 16:53	1
4,6-Dinitro-2-methylphenol	ND		1800	650	ug/Kg	☼	05/31/17 13:09	06/01/17 16:53	1
2,4-Dinitrophenol	ND		3500	710	ug/Kg	☼	05/31/17 13:09	06/01/17 16:53	1
2,4-Dinitrotoluene	ND		350	46	ug/Kg	☼	05/31/17 13:09	06/01/17 16:53	1
2,6-Dinitrotoluene	ND		350	24	ug/Kg	☼	05/31/17 13:09	06/01/17 16:53	1
Di-n-octyl phthalate	ND		350	41	ug/Kg	☼	05/31/17 13:09	06/01/17 16:53	1
1,4-Dioxane	ND		700	53	ug/Kg	☼	05/31/17 13:09	06/01/17 16:53	1
Fluoranthene	ND		70	28	ug/Kg	☼	05/31/17 13:09	06/01/17 16:53	1
Fluorene	ND		70	25	ug/Kg	☼	05/31/17 13:09	06/01/17 16:53	1
Hexachlorobenzene	ND		70	28	ug/Kg	☼	05/31/17 13:09	06/01/17 16:53	1
Hexachlorobutadiene	ND		70	22	ug/Kg	☼	05/31/17 13:09	06/01/17 16:53	1
Hexachlorocyclopentadiene	ND		350	30	ug/Kg	☼	05/31/17 13:09	06/01/17 16:53	1
Hexachloroethane	ND		350	25	ug/Kg	☼	05/31/17 13:09	06/01/17 16:53	1
Indeno[1,2,3-cd]pyrene	ND		70	27	ug/Kg	☼	05/31/17 13:09	06/01/17 16:53	1
Isophorone	ND		350	19	ug/Kg	☼	05/31/17 13:09	06/01/17 16:53	1
2-Methylnaphthalene	ND		70	27	ug/Kg	☼	05/31/17 13:09	06/01/17 16:53	1
2-Methylphenol	ND		350	31	ug/Kg	☼	05/31/17 13:09	06/01/17 16:53	1
Methylphenol, 3 & 4	ND		350	31	ug/Kg	☼	05/31/17 13:09	06/01/17 16:53	1
Naphthalene	ND		70	25	ug/Kg	☼	05/31/17 13:09	06/01/17 16:53	1

Client Sample ID: DW-FD-1
Date Collected: 05/23/17 00:00
Date Received: 05/24/17 09:15

Lab Sample ID: 180-66622-12
Matrix: Solid
Percent Solids: 92.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Nitroaniline	ND		1800	120	ug/Kg	☼	05/31/17 13:09	06/01/17 16:53	1
3-Nitroaniline	ND		1800	100	ug/Kg	☼	05/31/17 13:09	06/01/17 16:53	1
4-Nitroaniline	ND		1800	130	ug/Kg	☼	05/31/17 13:09	06/01/17 16:53	1
Nitrobenzene	ND		700	27	ug/Kg	☼	05/31/17 13:09	06/01/17 16:53	1
2-Nitrophenol	ND		350	26	ug/Kg	☼	05/31/17 13:09	06/01/17 16:53	1
4-Nitrophenol	ND		1800	370	ug/Kg	☼	05/31/17 13:09	06/01/17 16:53	1
N-Nitrosodi-n-propylamine	ND		70	24	ug/Kg	☼	05/31/17 13:09	06/01/17 16:53	1
N-Nitrosodiphenylamine	ND		350	55	ug/Kg	☼	05/31/17 13:09	06/01/17 16:53	1
2,2'-oxybis[1-chloropropane]	ND		70	23	ug/Kg	☼	05/31/17 13:09	06/01/17 16:53	1
Pentachlorophenol	ND		1800	660	ug/Kg	☼	05/31/17 13:09	06/01/17 16:53	1
Phenanthrene	ND		70	29	ug/Kg	☼	05/31/17 13:09	06/01/17 16:53	1
Phenol	ND		350	47	ug/Kg	☼	05/31/17 13:09	06/01/17 16:53	1
Pyrene	ND		70	31	ug/Kg	☼	05/31/17 13:09	06/01/17 16:53	1
1,2,4,5-Tetrachlorobenzene	ND		350	25	ug/Kg	☼	05/31/17 13:09	06/01/17 16:53	1
2,3,4,6-Tetrachlorophenol	ND		350	28	ug/Kg	☼	05/31/17 13:09	06/01/17 16:53	1
2,4,5-Trichlorophenol	ND		350	33	ug/Kg	☼	05/31/17 13:09	06/01/17 16:53	1
2,4,6-Trichlorophenol	ND		350	31	ug/Kg	☼	05/31/17 13:09	06/01/17 16:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*70*		*34 - 100*	*05/31/17 13:09*	*06/01/17 16:53*	*1*
2-Fluorophenol (Surr)	*71*		*24 - 109*	*05/31/17 13:09*	*06/01/17 16:53*	*1*
Nitrobenzene-d5 (Surr)	*76*		*31 - 105*	*05/31/17 13:09*	*06/01/17 16:53*	*1*
Phenol-d5 (Surr)	*63*		*24 - 106*	*05/31/17 13:09*	*06/01/17 16:53*	*1*
Terphenyl-d14 (Surr)	*70*		*34 - 104*	*05/31/17 13:09*	*06/01/17 16:53*	*1*
2,4,6-Tribromophenol (Surr)	*78*		*21 - 114*	*05/31/17 13:09*	*06/01/17 16:53*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		18	9.5	ug/Kg	☼	05/31/17 03:47	05/31/17 18:19	1
PCB-1221	ND		18	9.2	ug/Kg	☼	05/31/17 03:47	05/31/17 18:19	1
PCB-1232	ND		18	7.1	ug/Kg	☼	05/31/17 03:47	05/31/17 18:19	1
PCB-1242	ND		18	14	ug/Kg	☼	05/31/17 03:47	05/31/17 18:19	1
PCB-1248	ND		18	8.5	ug/Kg	☼	05/31/17 03:47	05/31/17 18:19	1
PCB-1254	ND		18	7.8	ug/Kg	☼	05/31/17 03:47	05/31/17 18:19	1
PCB-1260	ND		18	12	ug/Kg	☼	05/31/17 03:47	05/31/17 18:19	1
PCB-1262	ND		18	13	ug/Kg	☼	05/31/17 03:47	05/31/17 18:19	1
PCB-1268	ND		18	5.4	ug/Kg	☼	05/31/17 03:47	05/31/17 18:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*66*		*23 - 150*	*05/31/17 03:47*	*05/31/17 18:19*	*1*
DCB Decachlorobiphenyl (Surr)	*73*		*23 - 150*	*05/31/17 03:47*	*05/31/17 18:19*	*1*
Tetrachloro-m-xylene (Surr)	*66*		*27 - 138*	*05/31/17 03:47*	*05/31/17 18:19*	*1*
Tetrachloro-m-xylene (Surr)	*72*		*27 - 138*	*05/31/17 03:47*	*05/31/17 18:19*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**7.8**		0.1	0.1	%			05/31/17 16:46	1
Percent Solids	**92.2**		0.1	0.1	%			05/31/17 16:46	1

Client Sample ID: SSHS-B819-SUB-6-8
Date Collected: 05/23/17 07:50
Date Received: 05/24/17 09:15

Lab Sample ID: 180-66622-13
Matrix: Solid
Percent Solids: 92.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		72	24	ug/Kg	☼	05/31/17 13:09	06/01/17 17:21	1
Acenaphthylene	ND		72	24	ug/Kg	☼	05/31/17 13:09	06/01/17 17:21	1
Acetophenone	ND		720	25	ug/Kg	☼	05/31/17 13:09	06/01/17 17:21	1
Anthracene	ND		72	26	ug/Kg	☼	05/31/17 13:09	06/01/17 17:21	1
Atrazine	ND		720	49	ug/Kg	☼	05/31/17 13:09	06/01/17 17:21	1
Benzaldehyde	ND	*	720	23	ug/Kg	☼	05/31/17 13:09	06/01/17 17:21	1
Benzo[a]anthracene	ND		72	28	ug/Kg	☼	05/31/17 13:09	06/01/17 17:21	1
Benzo[a]pyrene	ND		72	29	ug/Kg	☼	05/31/17 13:09	06/01/17 17:21	1
Benzo[b]fluoranthene	ND		72	31	ug/Kg	☼	05/31/17 13:09	06/01/17 17:21	1
Benzo[g,h,i]perylene	ND		72	31	ug/Kg	☼	05/31/17 13:09	06/01/17 17:21	1
Benzo[k]fluoranthene	ND		72	25	ug/Kg	☼	05/31/17 13:09	06/01/17 17:21	1
1,1'-Biphenyl	ND		350	28	ug/Kg	☼	05/31/17 13:09	06/01/17 17:21	1
Bis(2-chloroethoxy)methane	ND		350	21	ug/Kg	☼	05/31/17 13:09	06/01/17 17:21	1
Bis(2-chloroethyl)ether	ND		72	21	ug/Kg	☼	05/31/17 13:09	06/01/17 17:21	1
Bis(2-ethylhexyl) phthalate	ND		720	240	ug/Kg	☼	05/31/17 13:09	06/01/17 17:21	1
4-Bromophenyl phenyl ether	ND		350	34	ug/Kg	☼	05/31/17 13:09	06/01/17 17:21	1
Butyl benzyl phthalate	ND		350	260	ug/Kg	☼	05/31/17 13:09	06/01/17 17:21	1
Caprolactam	ND		1800	170	ug/Kg	☼	05/31/17 13:09	06/01/17 17:21	1
Carbazole	ND		72	30	ug/Kg	☼	05/31/17 13:09	06/01/17 17:21	1
4-Chloroaniline	ND		350	20	ug/Kg	☼	05/31/17 13:09	06/01/17 17:21	1
4-Chloro-3-methylphenol	ND		350	37	ug/Kg	☼	05/31/17 13:09	06/01/17 17:21	1
2-Chloronaphthalene	ND		72	23	ug/Kg	☼	05/31/17 13:09	06/01/17 17:21	1
2-Chlorophenol	ND		350	26	ug/Kg	☼	05/31/17 13:09	06/01/17 17:21	1
4-Chlorophenyl phenyl ether	ND		350	26	ug/Kg	☼	05/31/17 13:09	06/01/17 17:21	1
Chrysene	ND		72	28	ug/Kg	☼	05/31/17 13:09	06/01/17 17:21	1
Dibenz(a,h)anthracene	ND		72	29	ug/Kg	☼	05/31/17 13:09	06/01/17 17:21	1
Dibenzofuran	ND		350	28	ug/Kg	☼	05/31/17 13:09	06/01/17 17:21	1
3,3'-Dichlorobenzidine	ND		350	150	ug/Kg	☼	05/31/17 13:09	06/01/17 17:21	1
2,4-Dichlorophenol	ND		72	29	ug/Kg	☼	05/31/17 13:09	06/01/17 17:21	1
Diethyl phthalate	ND		350	32	ug/Kg	☼	05/31/17 13:09	06/01/17 17:21	1
2,4-Dimethylphenol	ND		350	27	ug/Kg	☼	05/31/17 13:09	06/01/17 17:21	1
Dimethyl phthalate	ND		350	25	ug/Kg	☼	05/31/17 13:09	06/01/17 17:21	1
Di-n-butyl phthalate	ND		350	28	ug/Kg	☼	05/31/17 13:09	06/01/17 17:21	1
4,6-Dinitro-2-methylphenol	ND		1800	660	ug/Kg	☼	05/31/17 13:09	06/01/17 17:21	1
2,4-Dinitrophenol	ND		3500	720	ug/Kg	☼	05/31/17 13:09	06/01/17 17:21	1
2,4-Dinitrotoluene	ND		350	47	ug/Kg	☼	05/31/17 13:09	06/01/17 17:21	1
2,6-Dinitrotoluene	ND		350	25	ug/Kg	☼	05/31/17 13:09	06/01/17 17:21	1
Di-n-octyl phthalate	ND		350	42	ug/Kg	☼	05/31/17 13:09	06/01/17 17:21	1
1,4-Dioxane	ND		720	54	ug/Kg	☼	05/31/17 13:09	06/01/17 17:21	1
Fluoranthene	ND		72	28	ug/Kg	☼	05/31/17 13:09	06/01/17 17:21	1
Fluorene	ND		72	25	ug/Kg	☼	05/31/17 13:09	06/01/17 17:21	1
Hexachlorobenzene	ND		72	29	ug/Kg	☼	05/31/17 13:09	06/01/17 17:21	1
Hexachlorobutadiene	ND		72	22	ug/Kg	☼	05/31/17 13:09	06/01/17 17:21	1
Hexachlorocyclopentadiene	ND		350	30	ug/Kg	☼	05/31/17 13:09	06/01/17 17:21	1
Hexachloroethane	ND		350	26	ug/Kg	☼	05/31/17 13:09	06/01/17 17:21	1
Indeno[1,2,3-cd]pyrene	ND		72	28	ug/Kg	☼	05/31/17 13:09	06/01/17 17:21	1
Isophorone	ND		350	20	ug/Kg	☼	05/31/17 13:09	06/01/17 17:21	1
2-Methylnaphthalene	ND		72	27	ug/Kg	☼	05/31/17 13:09	06/01/17 17:21	1
2-Methylphenol	ND		350	31	ug/Kg	☼	05/31/17 13:09	06/01/17 17:21	1

Client Sample ID: SSHS-B819-SUB-6-8
Date Collected: 05/23/17 07:50
Date Received: 05/24/17 09:15

Lab Sample ID: 180-66622-13
Matrix: Solid
Percent Solids: 92.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylphenol, 3 & 4	ND		350	31	ug/Kg	☼	05/31/17 13:09	06/01/17 17:21	1
Naphthalene	ND		72	26	ug/Kg	☼	05/31/17 13:09	06/01/17 17:21	1
2-Nitroaniline	ND		1800	120	ug/Kg	☼	05/31/17 13:09	06/01/17 17:21	1
3-Nitroaniline	ND		1800	100	ug/Kg	☼	05/31/17 13:09	06/01/17 17:21	1
4-Nitroaniline	ND		1800	130	ug/Kg	☼	05/31/17 13:09	06/01/17 17:21	1
Nitrobenzene	ND		720	27	ug/Kg	☼	05/31/17 13:09	06/01/17 17:21	1
2-Nitrophenol	ND		350	26	ug/Kg	☼	05/31/17 13:09	06/01/17 17:21	1
4-Nitrophenol	ND		1800	370	ug/Kg	☼	05/31/17 13:09	06/01/17 17:21	1
N-Nitrosodi-n-propylamine	ND		72	24	ug/Kg	☼	05/31/17 13:09	06/01/17 17:21	1
N-Nitrosodiphenylamine	ND		350	56	ug/Kg	☼	05/31/17 13:09	06/01/17 17:21	1
2,2'-oxybis[1-chloropropane]	ND		72	23	ug/Kg	☼	05/31/17 13:09	06/01/17 17:21	1
Pentachlorophenol	ND		1800	670	ug/Kg	☼	05/31/17 13:09	06/01/17 17:21	1
Phenanthrene	ND		72	30	ug/Kg	☼	05/31/17 13:09	06/01/17 17:21	1
Phenol	ND		350	48	ug/Kg	☼	05/31/17 13:09	06/01/17 17:21	1
Pyrene	ND		72	32	ug/Kg	☼	05/31/17 13:09	06/01/17 17:21	1
1,2,4,5-Tetrachlorobenzene	ND		350	25	ug/Kg	☼	05/31/17 13:09	06/01/17 17:21	1
2,3,4,6-Tetrachlorophenol	ND		350	29	ug/Kg	☼	05/31/17 13:09	06/01/17 17:21	1
2,4,5-Trichlorophenol	ND		350	34	ug/Kg	☼	05/31/17 13:09	06/01/17 17:21	1
2,4,6-Trichlorophenol	ND		350	31	ug/Kg	☼	05/31/17 13:09	06/01/17 17:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*73*		*34 - 100*	*05/31/17 13:09*	*06/01/17 17:21*	*1*
2-Fluorophenol (Surr)	*69*		*24 - 109*	*05/31/17 13:09*	*06/01/17 17:21*	*1*
Nitrobenzene-d5 (Surr)	*74*		*31 - 105*	*05/31/17 13:09*	*06/01/17 17:21*	*1*
Phenol-d5 (Surr)	*65*		*24 - 106*	*05/31/17 13:09*	*06/01/17 17:21*	*1*
Terphenyl-d14 (Surr)	*73*		*34 - 104*	*05/31/17 13:09*	*06/01/17 17:21*	*1*
2,4,6-Tribromophenol (Surr)	*77*		*21 - 114*	*05/31/17 13:09*	*06/01/17 17:21*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		18	9.4	ug/Kg	☼	05/31/17 03:47	05/31/17 18:40	1
PCB-1221	ND		18	9.2	ug/Kg	☼	05/31/17 03:47	05/31/17 18:40	1
PCB-1232	ND		18	7.0	ug/Kg	☼	05/31/17 03:47	05/31/17 18:40	1
PCB-1242	ND		18	14	ug/Kg	☼	05/31/17 03:47	05/31/17 18:40	1
PCB-1248	ND		18	8.4	ug/Kg	☼	05/31/17 03:47	05/31/17 18:40	1
PCB-1254	ND		18	7.7	ug/Kg	☼	05/31/17 03:47	05/31/17 18:40	1
PCB-1260	ND		18	12	ug/Kg	☼	05/31/17 03:47	05/31/17 18:40	1
PCB-1262	ND		18	13	ug/Kg	☼	05/31/17 03:47	05/31/17 18:40	1
PCB-1268	ND		18	5.4	ug/Kg	☼	05/31/17 03:47	05/31/17 18:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*74*		*23 - 150*	*05/31/17 03:47*	*05/31/17 18:40*	*1*
DCB Decachlorobiphenyl (Surr)	*82*		*23 - 150*	*05/31/17 03:47*	*05/31/17 18:40*	*1*
Tetrachloro-m-xylene (Surr)	*84*		*27 - 138*	*05/31/17 03:47*	*05/31/17 18:40*	*1*
Tetrachloro-m-xylene (Surr)	*88*		*27 - 138*	*05/31/17 03:47*	*05/31/17 18:40*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**7.5**		0.1	0.1	%			05/31/17 16:46	1
Percent Solids	**92.5**		0.1	0.1	%			05/31/17 16:46	1

Client Sample ID: SSHS-B819-SUB-8-10
Date Collected: 05/23/17 07:55
Date Received: 05/24/17 09:15

Lab Sample ID: 180-66622-14
Matrix: Solid
Percent Solids: 90.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		73	25	ug/Kg	☼	05/31/17 13:09	06/01/17 17:48	1
Acenaphthylene	ND		73	25	ug/Kg	☼	05/31/17 13:09	06/01/17 17:48	1
Acetophenone	ND		730	25	ug/Kg	☼	05/31/17 13:09	06/01/17 17:48	1
Anthracene	**55**	**J**	73	27	ug/Kg	☼	05/31/17 13:09	06/01/17 17:48	1
Atrazine	ND		730	51	ug/Kg	☼	05/31/17 13:09	06/01/17 17:48	1
Benzaldehyde	ND	*	730	24	ug/Kg	☼	05/31/17 13:09	06/01/17 17:48	1
Benzo[a]anthracene	**200**		73	29	ug/Kg	☼	05/31/17 13:09	06/01/17 17:48	1
Benzo[a]pyrene	**170**		73	30	ug/Kg	☼	05/31/17 13:09	06/01/17 17:48	1
Benzo[b]fluoranthene	**240**		73	32	ug/Kg	☼	05/31/17 13:09	06/01/17 17:48	1
Benzo[g,h,i]perylene	**89**		73	32	ug/Kg	☼	05/31/17 13:09	06/01/17 17:48	1
Benzo[k]fluoranthene	**75**		73	25	ug/Kg	☼	05/31/17 13:09	06/01/17 17:48	1
1,1'-Biphenyl	ND		360	29	ug/Kg	☼	05/31/17 13:09	06/01/17 17:48	1
Bis(2-chloroethoxy)methane	ND		360	21	ug/Kg	☼	05/31/17 13:09	06/01/17 17:48	1
Bis(2-chloroethyl)ether	ND		73	22	ug/Kg	☼	05/31/17 13:09	06/01/17 17:48	1
Bis(2-ethylhexyl) phthalate	ND		730	250	ug/Kg	☼	05/31/17 13:09	06/01/17 17:48	1
4-Bromophenyl phenyl ether	ND		360	35	ug/Kg	☼	05/31/17 13:09	06/01/17 17:48	1
Butyl benzyl phthalate	ND		360	270	ug/Kg	☼	05/31/17 13:09	06/01/17 17:48	1
Caprolactam	ND		1900	170	ug/Kg	☼	05/31/17 13:09	06/01/17 17:48	1
Carbazole	**31**	**J**	73	31	ug/Kg	☼	05/31/17 13:09	06/01/17 17:48	1
4-Chloroaniline	ND		360	20	ug/Kg	☼	05/31/17 13:09	06/01/17 17:48	1
4-Chloro-3-methylphenol	ND		360	38	ug/Kg	☼	05/31/17 13:09	06/01/17 17:48	1
2-Chloronaphthalene	ND		73	24	ug/Kg	☼	05/31/17 13:09	06/01/17 17:48	1
2-Chlorophenol	ND		360	26	ug/Kg	☼	05/31/17 13:09	06/01/17 17:48	1
4-Chlorophenyl phenyl ether	ND		360	26	ug/Kg	☼	05/31/17 13:09	06/01/17 17:48	1
Chrysene	**170**		73	29	ug/Kg	☼	05/31/17 13:09	06/01/17 17:48	1
Dibenz(a,h)anthracene	ND		73	30	ug/Kg	☼	05/31/17 13:09	06/01/17 17:48	1
Dibenzofuran	ND		360	29	ug/Kg	☼	05/31/17 13:09	06/01/17 17:48	1
3,3'-Dichlorobenzidine	ND		360	150	ug/Kg	☼	05/31/17 13:09	06/01/17 17:48	1
2,4-Dichlorophenol	ND		73	30	ug/Kg	☼	05/31/17 13:09	06/01/17 17:48	1
Diethyl phthalate	ND		360	32	ug/Kg	☼	05/31/17 13:09	06/01/17 17:48	1
2,4-Dimethylphenol	ND		360	28	ug/Kg	☼	05/31/17 13:09	06/01/17 17:48	1
Dimethyl phthalate	ND		360	25	ug/Kg	☼	05/31/17 13:09	06/01/17 17:48	1
Di-n-butyl phthalate	ND		360	29	ug/Kg	☼	05/31/17 13:09	06/01/17 17:48	1
4,6-Dinitro-2-methylphenol	ND		1900	680	ug/Kg	☼	05/31/17 13:09	06/01/17 17:48	1
2,4-Dinitrophenol	ND		3600	740	ug/Kg	☼	05/31/17 13:09	06/01/17 17:48	1
2,4-Dinitrotoluene	ND		360	48	ug/Kg	☼	05/31/17 13:09	06/01/17 17:48	1
2,6-Dinitrotoluene	ND		360	25	ug/Kg	☼	05/31/17 13:09	06/01/17 17:48	1
Di-n-octyl phthalate	ND		360	43	ug/Kg	☼	05/31/17 13:09	06/01/17 17:48	1
1,4-Dioxane	ND		730	55	ug/Kg	☼	05/31/17 13:09	06/01/17 17:48	1
Fluoranthene	**470**		73	29	ug/Kg	☼	05/31/17 13:09	06/01/17 17:48	1
Fluorene	ND		73	26	ug/Kg	☼	05/31/17 13:09	06/01/17 17:48	1
Hexachlorobenzene	ND		73	29	ug/Kg	☼	05/31/17 13:09	06/01/17 17:48	1
Hexachlorobutadiene	ND		73	23	ug/Kg	☼	05/31/17 13:09	06/01/17 17:48	1
Hexachlorocyclopentadiene	ND		360	31	ug/Kg	☼	05/31/17 13:09	06/01/17 17:48	1
Hexachloroethane	ND		360	26	ug/Kg	☼	05/31/17 13:09	06/01/17 17:48	1
Indeno[1,2,3-cd]pyrene	**95**		73	28	ug/Kg	☼	05/31/17 13:09	06/01/17 17:48	1
Isophorone	ND		360	20	ug/Kg	☼	05/31/17 13:09	06/01/17 17:48	1
2-Methylnaphthalene	ND		73	28	ug/Kg	☼	05/31/17 13:09	06/01/17 17:48	1
2-Methylphenol	ND		360	32	ug/Kg	☼	05/31/17 13:09	06/01/17 17:48	1

Client Sample ID: SSHS-B819-SUB-8-10
Date Collected: 05/23/17 07:55
Date Received: 05/24/17 09:15

Lab Sample ID: 180-66622-14
Matrix: Solid
Percent Solids: 90.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylphenol, 3 & 4	ND		360	32	ug/Kg	☼	05/31/17 13:09	06/01/17 17:48	1
Naphthalene	ND		73	26	ug/Kg	☼	05/31/17 13:09	06/01/17 17:48	1
2-Nitroaniline	ND		1900	130	ug/Kg	☼	05/31/17 13:09	06/01/17 17:48	1
3-Nitroaniline	ND		1900	110	ug/Kg	☼	05/31/17 13:09	06/01/17 17:48	1
4-Nitroaniline	ND		1900	130	ug/Kg	☼	05/31/17 13:09	06/01/17 17:48	1
Nitrobenzene	ND		730	28	ug/Kg	☼	05/31/17 13:09	06/01/17 17:48	1
2-Nitrophenol	ND		360	27	ug/Kg	☼	05/31/17 13:09	06/01/17 17:48	1
4-Nitrophenol	ND		1900	380	ug/Kg	☼	05/31/17 13:09	06/01/17 17:48	1
N-Nitrosodi-n-propylamine	ND		73	25	ug/Kg	☼	05/31/17 13:09	06/01/17 17:48	1
N-Nitrosodiphenylamine	ND		360	57	ug/Kg	☼	05/31/17 13:09	06/01/17 17:48	1
2,2'-oxybis[1-chloropropane]	ND		73	24	ug/Kg	☼	05/31/17 13:09	06/01/17 17:48	1
Pentachlorophenol	ND		1900	690	ug/Kg	☼	05/31/17 13:09	06/01/17 17:48	1
Phenanthrene	**230**		73	31	ug/Kg	☼	05/31/17 13:09	06/01/17 17:48	1
Phenol	ND		360	49	ug/Kg	☼	05/31/17 13:09	06/01/17 17:48	1
Pyrene	**340**		73	33	ug/Kg	☼	05/31/17 13:09	06/01/17 17:48	1
1,2,4,5-Tetrachlorobenzene	ND		360	26	ug/Kg	☼	05/31/17 13:09	06/01/17 17:48	1
2,3,4,6-Tetrachlorophenol	ND		360	29	ug/Kg	☼	05/31/17 13:09	06/01/17 17:48	1
2,4,5-Trichlorophenol	ND		360	35	ug/Kg	☼	05/31/17 13:09	06/01/17 17:48	1
2,4,6-Trichlorophenol	ND		360	32	ug/Kg	☼	05/31/17 13:09	06/01/17 17:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*74*		*34 - 100*	*05/31/17 13:09*	*06/01/17 17:48*	*1*
2-Fluorophenol (Surr)	*70*		*24 - 109*	*05/31/17 13:09*	*06/01/17 17:48*	*1*
Nitrobenzene-d5 (Surr)	*76*		*31 - 105*	*05/31/17 13:09*	*06/01/17 17:48*	*1*
Phenol-d5 (Surr)	*62*		*24 - 106*	*05/31/17 13:09*	*06/01/17 17:48*	*1*
Terphenyl-d14 (Surr)	*73*		*34 - 104*	*05/31/17 13:09*	*06/01/17 17:48*	*1*
2,4,6-Tribromophenol (Surr)	*77*		*21 - 114*	*05/31/17 13:09*	*06/01/17 17:48*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		18	9.5	ug/Kg	☼	05/31/17 03:47	05/31/17 19:01	1
PCB-1221	ND		18	9.3	ug/Kg	☼	05/31/17 03:47	05/31/17 19:01	1
PCB-1232	ND		18	7.1	ug/Kg	☼	05/31/17 03:47	05/31/17 19:01	1
PCB-1242	ND		18	14	ug/Kg	☼	05/31/17 03:47	05/31/17 19:01	1
PCB-1248	ND		18	8.6	ug/Kg	☼	05/31/17 03:47	05/31/17 19:01	1
PCB-1254	ND		18	7.9	ug/Kg	☼	05/31/17 03:47	05/31/17 19:01	1
PCB-1260	ND		18	12	ug/Kg	☼	05/31/17 03:47	05/31/17 19:01	1
PCB-1262	ND		18	13	ug/Kg	☼	05/31/17 03:47	05/31/17 19:01	1
PCB-1268	ND		18	5.5	ug/Kg	☼	05/31/17 03:47	05/31/17 19:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*86*		*23 - 150*	*05/31/17 03:47*	*05/31/17 19:01*	*1*
DCB Decachlorobiphenyl (Surr)	*92*		*23 - 150*	*05/31/17 03:47*	*05/31/17 19:01*	*1*
Tetrachloro-m-xylene (Surr)	*85*		*27 - 138*	*05/31/17 03:47*	*05/31/17 19:01*	*1*
Tetrachloro-m-xylene (Surr)	*90*		*27 - 138*	*05/31/17 03:47*	*05/31/17 19:01*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.4**		0.1	0.1	%			05/31/17 16:46	1
Percent Solids	**90.6**		0.1	0.1	%			05/31/17 16:46	1

Client Sample ID: SSHS-B819-SUB-10-12
Date Collected: 05/23/17 07:55
Date Received: 05/24/17 09:15

Lab Sample ID: 180-66622-15
Matrix: Solid
Percent Solids: 93.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		72	24	ug/Kg	☼	05/31/17 13:09	06/01/17 18:16	1
Acenaphthylene	ND		72	24	ug/Kg	☼	05/31/17 13:09	06/01/17 18:16	1
Acetophenone	ND		720	25	ug/Kg	☼	05/31/17 13:09	06/01/17 18:16	1
Anthracene	ND		72	26	ug/Kg	☼	05/31/17 13:09	06/01/17 18:16	1
Atrazine	ND		720	49	ug/Kg	☼	05/31/17 13:09	06/01/17 18:16	1
Benzaldehyde	ND	*	720	23	ug/Kg	☼	05/31/17 13:09	06/01/17 18:16	1
Benzo[a]anthracene	ND		72	28	ug/Kg	☼	05/31/17 13:09	06/01/17 18:16	1
Benzo[a]pyrene	ND		72	30	ug/Kg	☼	05/31/17 13:09	06/01/17 18:16	1
Benzo[b]fluoranthene	ND		72	31	ug/Kg	☼	05/31/17 13:09	06/01/17 18:16	1
Benzo[g,h,i]perylene	ND		72	31	ug/Kg	☼	05/31/17 13:09	06/01/17 18:16	1
Benzo[k]fluoranthene	ND		72	25	ug/Kg	☼	05/31/17 13:09	06/01/17 18:16	1
1,1'-Biphenyl	ND		350	28	ug/Kg	☼	05/31/17 13:09	06/01/17 18:16	1
Bis(2-chloroethoxy)methane	ND		350	21	ug/Kg	☼	05/31/17 13:09	06/01/17 18:16	1
Bis(2-chloroethyl)ether	ND		72	21	ug/Kg	☼	05/31/17 13:09	06/01/17 18:16	1
Bis(2-ethylhexyl) phthalate	ND		720	240	ug/Kg	☼	05/31/17 13:09	06/01/17 18:16	1
4-Bromophenyl phenyl ether	ND		350	34	ug/Kg	☼	05/31/17 13:09	06/01/17 18:16	1
Butyl benzyl phthalate	ND		350	260	ug/Kg	☼	05/31/17 13:09	06/01/17 18:16	1
Caprolactam	ND		1800	170	ug/Kg	☼	05/31/17 13:09	06/01/17 18:16	1
Carbazole	ND		72	30	ug/Kg	☼	05/31/17 13:09	06/01/17 18:16	1
4-Chloroaniline	ND		350	20	ug/Kg	☼	05/31/17 13:09	06/01/17 18:16	1
4-Chloro-3-methylphenol	ND		350	37	ug/Kg	☼	05/31/17 13:09	06/01/17 18:16	1
2-Chloronaphthalene	ND		72	23	ug/Kg	☼	05/31/17 13:09	06/01/17 18:16	1
2-Chlorophenol	ND		350	26	ug/Kg	☼	05/31/17 13:09	06/01/17 18:16	1
4-Chlorophenyl phenyl ether	ND		350	26	ug/Kg	☼	05/31/17 13:09	06/01/17 18:16	1
Chrysene	ND		72	28	ug/Kg	☼	05/31/17 13:09	06/01/17 18:16	1
Dibenz(a,h)anthracene	ND		72	29	ug/Kg	☼	05/31/17 13:09	06/01/17 18:16	1
Dibenzofuran	ND		350	29	ug/Kg	☼	05/31/17 13:09	06/01/17 18:16	1
3,3'-Dichlorobenzidine	ND		350	150	ug/Kg	☼	05/31/17 13:09	06/01/17 18:16	1
2,4-Dichlorophenol	ND		72	29	ug/Kg	☼	05/31/17 13:09	06/01/17 18:16	1
Diethyl phthalate	ND		350	32	ug/Kg	☼	05/31/17 13:09	06/01/17 18:16	1
2,4-Dimethylphenol	ND		350	27	ug/Kg	☼	05/31/17 13:09	06/01/17 18:16	1
Dimethyl phthalate	ND		350	25	ug/Kg	☼	05/31/17 13:09	06/01/17 18:16	1
Di-n-butyl phthalate	ND		350	28	ug/Kg	☼	05/31/17 13:09	06/01/17 18:16	1
4,6-Dinitro-2-methylphenol	ND		1800	660	ug/Kg	☼	05/31/17 13:09	06/01/17 18:16	1
2,4-Dinitrophenol	ND		3500	720	ug/Kg	☼	05/31/17 13:09	06/01/17 18:16	1
2,4-Dinitrotoluene	ND		350	47	ug/Kg	☼	05/31/17 13:09	06/01/17 18:16	1
2,6-Dinitrotoluene	ND		350	25	ug/Kg	☼	05/31/17 13:09	06/01/17 18:16	1
Di-n-octyl phthalate	ND		350	42	ug/Kg	☼	05/31/17 13:09	06/01/17 18:16	1
1,4-Dioxane	ND		720	54	ug/Kg	☼	05/31/17 13:09	06/01/17 18:16	1
Fluoranthene	ND		72	28	ug/Kg	☼	05/31/17 13:09	06/01/17 18:16	1
Fluorene	ND		72	25	ug/Kg	☼	05/31/17 13:09	06/01/17 18:16	1
Hexachlorobenzene	ND		72	29	ug/Kg	☼	05/31/17 13:09	06/01/17 18:16	1
Hexachlorobutadiene	ND		72	22	ug/Kg	☼	05/31/17 13:09	06/01/17 18:16	1
Hexachlorocyclopentadiene	ND		350	30	ug/Kg	☼	05/31/17 13:09	06/01/17 18:16	1
Hexachloroethane	ND		350	26	ug/Kg	☼	05/31/17 13:09	06/01/17 18:16	1
Indeno[1,2,3-cd]pyrene	ND		72	28	ug/Kg	☼	05/31/17 13:09	06/01/17 18:16	1
Isophorone	ND		350	20	ug/Kg	☼	05/31/17 13:09	06/01/17 18:16	1
2-Methylnaphthalene	ND		72	27	ug/Kg	☼	05/31/17 13:09	06/01/17 18:16	1
2-Methylphenol	ND		350	31	ug/Kg	☼	05/31/17 13:09	06/01/17 18:16	1

Client Sample ID: SSHS-B819-SUB-10-12 **Lab Sample ID: 180-66622-15**
Date Collected: 05/23/17 07:55 **Matrix: Solid**
Date Received: 05/24/17 09:15 **Percent Solids: 93.6**

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylphenol, 3 & 4	ND		350	32	ug/Kg	☼	05/31/17 13:09	06/01/17 18:16	1
Naphthalene	ND		72	26	ug/Kg	☼	05/31/17 13:09	06/01/17 18:16	1
2-Nitroaniline	ND		1800	120	ug/Kg	☼	05/31/17 13:09	06/01/17 18:16	1
3-Nitroaniline	ND		1800	100	ug/Kg	☼	05/31/17 13:09	06/01/17 18:16	1
4-Nitroaniline	ND		1800	130	ug/Kg	☼	05/31/17 13:09	06/01/17 18:16	1
Nitrobenzene	ND		720	27	ug/Kg	☼	05/31/17 13:09	06/01/17 18:16	1
2-Nitrophenol	ND		350	26	ug/Kg	☼	05/31/17 13:09	06/01/17 18:16	1
4-Nitrophenol	ND		1800	370	ug/Kg	☼	05/31/17 13:09	06/01/17 18:16	1
N-Nitrosodi-n-propylamine	ND		72	24	ug/Kg	☼	05/31/17 13:09	06/01/17 18:16	1
N-Nitrosodiphenylamine	ND		350	56	ug/Kg	☼	05/31/17 13:09	06/01/17 18:16	1
2,2'-oxybis[1-chloropropane]	ND		72	23	ug/Kg	☼	05/31/17 13:09	06/01/17 18:16	1
Pentachlorophenol	ND		1800	670	ug/Kg	☼	05/31/17 13:09	06/01/17 18:16	1
Phenanthrene	ND		72	30	ug/Kg	☼	05/31/17 13:09	06/01/17 18:16	1
Phenol	ND		350	48	ug/Kg	☼	05/31/17 13:09	06/01/17 18:16	1
Pyrene	ND		72	32	ug/Kg	☼	05/31/17 13:09	06/01/17 18:16	1
1,2,4,5-Tetrachlorobenzene	ND		350	26	ug/Kg	☼	05/31/17 13:09	06/01/17 18:16	1
2,3,4,6-Tetrachlorophenol	ND		350	29	ug/Kg	☼	05/31/17 13:09	06/01/17 18:16	1
2,4,5-Trichlorophenol	ND		350	34	ug/Kg	☼	05/31/17 13:09	06/01/17 18:16	1
2,4,6-Trichlorophenol	ND		350	31	ug/Kg	☼	05/31/17 13:09	06/01/17 18:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*73*		*34 - 100*	*05/31/17 13:09*	*06/01/17 18:16*	*1*
2-Fluorophenol (Surr)	*73*		*24 - 109*	*05/31/17 13:09*	*06/01/17 18:16*	*1*
Nitrobenzene-d5 (Surr)	*80*		*31 - 105*	*05/31/17 13:09*	*06/01/17 18:16*	*1*
Phenol-d5 (Surr)	*66*		*24 - 106*	*05/31/17 13:09*	*06/01/17 18:16*	*1*
Terphenyl-d14 (Surr)	*76*		*34 - 104*	*05/31/17 13:09*	*06/01/17 18:16*	*1*
2,4,6-Tribromophenol (Surr)	*79*		*21 - 114*	*05/31/17 13:09*	*06/01/17 18:16*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		18	9.4	ug/Kg	☼	05/31/17 03:47	05/31/17 19:22	1
PCB-1221	ND		18	9.2	ug/Kg	☼	05/31/17 03:47	05/31/17 19:22	1
PCB-1232	ND		18	7.0	ug/Kg	☼	05/31/17 03:47	05/31/17 19:22	1
PCB-1242	ND		18	14	ug/Kg	☼	05/31/17 03:47	05/31/17 19:22	1
PCB-1248	ND		18	8.5	ug/Kg	☼	05/31/17 03:47	05/31/17 19:22	1
PCB-1254	ND		18	7.8	ug/Kg	☼	05/31/17 03:47	05/31/17 19:22	1
PCB-1260	ND		18	12	ug/Kg	☼	05/31/17 03:47	05/31/17 19:22	1
PCB-1262	ND		18	13	ug/Kg	☼	05/31/17 03:47	05/31/17 19:22	1
PCB-1268	ND		18	5.4	ug/Kg	☼	05/31/17 03:47	05/31/17 19:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*84*		*23 - 150*	*05/31/17 03:47*	*05/31/17 19:22*	*1*
DCB Decachlorobiphenyl (Surr)	*89*		*23 - 150*	*05/31/17 03:47*	*05/31/17 19:22*	*1*
Tetrachloro-m-xylene (Surr)	*81*		*27 - 138*	*05/31/17 03:47*	*05/31/17 19:22*	*1*
Tetrachloro-m-xylene (Surr)	*82*		*27 - 138*	*05/31/17 03:47*	*05/31/17 19:22*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**6.4**		0.1	0.1	%			05/31/17 16:46	1
Percent Solids	**93.6**		0.1	0.1	%			05/31/17 16:46	1

Client Sample ID: SSHS-B819-SUB-12-14
Date Collected: 05/23/17 08:00
Date Received: 05/24/17 09:15

Lab Sample ID: 180-66622-16
Matrix: Solid
Percent Solids: 94.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND	F2 F1	70	23	ug/Kg	☼	05/31/17 13:09	06/01/17 12:45	1
Acenaphthylene	**30**	**J F2 F1**	70	24	ug/Kg	☼	05/31/17 13:09	06/01/17 12:45	1
Acetophenone	ND	F2 F1	700	24	ug/Kg	☼	05/31/17 13:09	06/01/17 12:45	1
Anthracene	**200**	**F2 F1**	70	26	ug/Kg	☼	05/31/17 13:09	06/01/17 12:45	1
Atrazine	ND	F2	700	48	ug/Kg	☼	05/31/17 13:09	06/01/17 12:45	1
Benzaldehyde	ND	*	700	23	ug/Kg	☼	05/31/17 13:09	06/01/17 12:45	1
Benzo[a]anthracene	**540**	**F2 F1**	70	28	ug/Kg	☼	05/31/17 13:09	06/01/17 12:45	1
Benzo[a]pyrene	**430**	**F2 F1**	70	29	ug/Kg	☼	05/31/17 13:09	06/01/17 12:45	1
Benzo[b]fluoranthene	**530**	**F2 F1**	70	30	ug/Kg	☼	05/31/17 13:09	06/01/17 12:45	1
Benzo[g,h,i]perylene	**210**	**F2**	70	30	ug/Kg	☼	05/31/17 13:09	06/01/17 12:45	1
Benzo[k]fluoranthene	**240**	**F2 F1**	70	24	ug/Kg	☼	05/31/17 13:09	06/01/17 12:45	1
1,1'-Biphenyl	ND	F2 F1	340	28	ug/Kg	☼	05/31/17 13:09	06/01/17 12:45	1
Bis(2-chloroethoxy)methane	ND	F2 F1	340	20	ug/Kg	☼	05/31/17 13:09	06/01/17 12:45	1
Bis(2-chloroethyl)ether	ND	F2 F1	70	20	ug/Kg	☼	05/31/17 13:09	06/01/17 12:45	1
Bis(2-ethylhexyl) phthalate	ND	F2 F1	700	230	ug/Kg	☼	05/31/17 13:09	06/01/17 12:45	1
4-Bromophenyl phenyl ether	ND	F2 F1	340	33	ug/Kg	☼	05/31/17 13:09	06/01/17 12:45	1
Butyl benzyl phthalate	ND	F2 F1	340	260	ug/Kg	☼	05/31/17 13:09	06/01/17 12:45	1
Caprolactam	ND	F2 F1	1800	160	ug/Kg	☼	05/31/17 13:09	06/01/17 12:45	1
Carbazole	**120**	**F2 F1**	70	30	ug/Kg	☼	05/31/17 13:09	06/01/17 12:45	1
4-Chloroaniline	ND	F2 F1	340	19	ug/Kg	☼	05/31/17 13:09	06/01/17 12:45	1
4-Chloro-3-methylphenol	ND	F2 F1	340	37	ug/Kg	☼	05/31/17 13:09	06/01/17 12:45	1
2-Chloronaphthalene	ND	F2 F1	70	23	ug/Kg	☼	05/31/17 13:09	06/01/17 12:45	1
2-Chlorophenol	ND	F2 F1	340	25	ug/Kg	☼	05/31/17 13:09	06/01/17 12:45	1
4-Chlorophenyl phenyl ether	ND	F2 F1	340	25	ug/Kg	☼	05/31/17 13:09	06/01/17 12:45	1
Chrysene	**440**	**F2 F1**	70	27	ug/Kg	☼	05/31/17 13:09	06/01/17 12:45	1
Dibenz(a,h)anthracene	**59**	**J F2**	70	29	ug/Kg	☼	05/31/17 13:09	06/01/17 12:45	1
Dibenzofuran	ND	F2 F1	340	28	ug/Kg	☼	05/31/17 13:09	06/01/17 12:45	1
3,3'-Dichlorobenzidine	ND	F2	340	140	ug/Kg	☼	05/31/17 13:09	06/01/17 12:45	1
2,4-Dichlorophenol	ND	F2 F1	70	28	ug/Kg	☼	05/31/17 13:09	06/01/17 12:45	1
Diethyl phthalate	ND	F2 F1	340	31	ug/Kg	☼	05/31/17 13:09	06/01/17 12:45	1
2,4-Dimethylphenol	ND	F2 F1	340	27	ug/Kg	☼	05/31/17 13:09	06/01/17 12:45	1
Dimethyl phthalate	ND	F2 F1	340	24	ug/Kg	☼	05/31/17 13:09	06/01/17 12:45	1
Di-n-butyl phthalate	ND	F2 F1	340	28	ug/Kg	☼	05/31/17 13:09	06/01/17 12:45	1
4,6-Dinitro-2-methylphenol	ND	F2 F1	1800	640	ug/Kg	☼	05/31/17 13:09	06/01/17 12:45	1
2,4-Dinitrophenol	ND	F2 F1	3400	700	ug/Kg	☼	05/31/17 13:09	06/01/17 12:45	1
2,4-Dinitrotoluene	ND	F2 F1	340	46	ug/Kg	☼	05/31/17 13:09	06/01/17 12:45	1
2,6-Dinitrotoluene	ND	F2 F1	340	24	ug/Kg	☼	05/31/17 13:09	06/01/17 12:45	1
Di-n-octyl phthalate	ND	F2 F1	340	41	ug/Kg	☼	05/31/17 13:09	06/01/17 12:45	1
1,4-Dioxane	ND	F2 F1	700	52	ug/Kg	☼	05/31/17 13:09	06/01/17 12:45	1
Fluoranthene	**1300**	**F2 F1**	70	27	ug/Kg	☼	05/31/17 13:09	06/01/17 12:45	1
Fluorene	ND	F2 F1	70	25	ug/Kg	☼	05/31/17 13:09	06/01/17 12:45	1
Hexachlorobenzene	ND	F2 F1	70	28	ug/Kg	☼	05/31/17 13:09	06/01/17 12:45	1
Hexachlorobutadiene	ND	F2 F1	70	22	ug/Kg	☼	05/31/17 13:09	06/01/17 12:45	1
Hexachlorocyclopentadiene	ND	F2 F1	340	29	ug/Kg	☼	05/31/17 13:09	06/01/17 12:45	1
Hexachloroethane	ND	F2 F1	340	25	ug/Kg	☼	05/31/17 13:09	06/01/17 12:45	1
Indeno[1,2,3-cd]pyrene	**200**	**F2**	70	27	ug/Kg	☼	05/31/17 13:09	06/01/17 12:45	1
Isophorone	ND	F2 F1	340	19	ug/Kg	☼	05/31/17 13:09	06/01/17 12:45	1
2-Methylnaphthalene	ND	F2 F1	70	27	ug/Kg	☼	05/31/17 13:09	06/01/17 12:45	1
2-Methylphenol	ND	F2 F1	340	31	ug/Kg	☼	05/31/17 13:09	06/01/17 12:45	1

Client Sample ID: SSHS-B819-SUB-12-14
Date Collected: 05/23/17 08:00
Date Received: 05/24/17 09:15

Lab Sample ID: 180-66622-16
Matrix: Solid
Percent Solids: 94.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylphenol, 3 & 4	ND	F2 F1	340	31	ug/Kg	☼	05/31/17 13:09	06/01/17 12:45	1
Naphthalene	**30**	**J F2 F1**	70	25	ug/Kg	☼	05/31/17 13:09	06/01/17 12:45	1
2-Nitroaniline	ND	F2 F1	1800	120	ug/Kg	☼	05/31/17 13:09	06/01/17 12:45	1
3-Nitroaniline	ND	F2	1800	100	ug/Kg	☼	05/31/17 13:09	06/01/17 12:45	1
4-Nitroaniline	ND	F2 F1	1800	120	ug/Kg	☼	05/31/17 13:09	06/01/17 12:45	1
Nitrobenzene	ND	F2 F1	700	27	ug/Kg	☼	05/31/17 13:09	06/01/17 12:45	1
2-Nitrophenol	ND	F2 F1	340	25	ug/Kg	☼	05/31/17 13:09	06/01/17 12:45	1
4-Nitrophenol	ND	F2 F1	1800	360	ug/Kg	☼	05/31/17 13:09	06/01/17 12:45	1
N-Nitrosodi-n-propylamine	ND	F2 F1	70	24	ug/Kg	☼	05/31/17 13:09	06/01/17 12:45	1
N-Nitrosodiphenylamine	ND	F2 F1	340	55	ug/Kg	☼	05/31/17 13:09	06/01/17 12:45	1
2,2'-oxybis[1-chloropropane]	ND	F2 F1	70	23	ug/Kg	☼	05/31/17 13:09	06/01/17 12:45	1
Pentachlorophenol	ND	F2 F1	1800	660	ug/Kg	☼	05/31/17 13:09	06/01/17 12:45	1
Phenanthrene	**820**	**F2 F1**	70	29	ug/Kg	☼	05/31/17 13:09	06/01/17 12:45	1
Phenol	ND	F2 F1	340	47	ug/Kg	☼	05/31/17 13:09	06/01/17 12:45	1
Pyrene	**940**	**F2 F1**	70	31	ug/Kg	☼	05/31/17 13:09	06/01/17 12:45	1
1,2,4,5-Tetrachlorobenzene	ND	F2 F1	340	25	ug/Kg	☼	05/31/17 13:09	06/01/17 12:45	1
2,3,4,6-Tetrachlorophenol	ND	F2 F1	340	28	ug/Kg	☼	05/31/17 13:09	06/01/17 12:45	1
2,4,5-Trichlorophenol	ND	F2 F1	340	33	ug/Kg	☼	05/31/17 13:09	06/01/17 12:45	1
2,4,6-Trichlorophenol	ND	F2 F1	340	30	ug/Kg	☼	05/31/17 13:09	06/01/17 12:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*76*		*34 - 100*	*05/31/17 13:09*	*06/01/17 12:45*	*1*
2-Fluorophenol (Surr)	*76*		*24 - 109*	*05/31/17 13:09*	*06/01/17 12:45*	*1*
Nitrobenzene-d5 (Surr)	*82*		*31 - 105*	*05/31/17 13:09*	*06/01/17 12:45*	*1*
Phenol-d5 (Surr)	*67*		*24 - 106*	*05/31/17 13:09*	*06/01/17 12:45*	*1*
Terphenyl-d14 (Surr)	*75*		*34 - 104*	*05/31/17 13:09*	*06/01/17 12:45*	*1*
2,4,6-Tribromophenol (Surr)	*84*		*21 - 114*	*05/31/17 13:09*	*06/01/17 12:45*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		17	9.1	ug/Kg	☼	05/31/17 03:47	05/31/17 19:42	1
PCB-1221	ND		17	8.9	ug/Kg	☼	05/31/17 03:47	05/31/17 19:42	1
PCB-1232	ND		17	6.8	ug/Kg	☼	05/31/17 03:47	05/31/17 19:42	1
PCB-1242	ND		17	14	ug/Kg	☼	05/31/17 03:47	05/31/17 19:42	1
PCB-1248	ND		17	8.2	ug/Kg	☼	05/31/17 03:47	05/31/17 19:42	1
PCB-1254	**27**		17	7.6	ug/Kg	☼	05/31/17 03:47	05/31/17 19:42	1
PCB-1260	ND		17	12	ug/Kg	☼	05/31/17 03:47	05/31/17 19:42	1
PCB-1262	ND		17	12	ug/Kg	☼	05/31/17 03:47	05/31/17 19:42	1
PCB-1268	ND		17	5.3	ug/Kg	☼	05/31/17 03:47	05/31/17 19:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*69*		*23 - 150*	*05/31/17 03:47*	*05/31/17 19:42*	*1*
DCB Decachlorobiphenyl (Surr)	*75*		*23 - 150*	*05/31/17 03:47*	*05/31/17 19:42*	*1*
Tetrachloro-m-xylene (Surr)	*66*		*27 - 138*	*05/31/17 03:47*	*05/31/17 19:42*	*1*
Tetrachloro-m-xylene (Surr)	*67*		*27 - 138*	*05/31/17 03:47*	*05/31/17 19:42*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**5.2**		0.1	0.1	%			05/31/17 16:46	1
Percent Solids	**94.8**		0.1	0.1	%			05/31/17 16:46	1

Client Sample ID: SSHS-B819-SUB-14-16
Date Collected: 05/23/17 08:00
Date Received: 05/24/17 09:15

Lab Sample ID: 180-66622-17
Matrix: Solid
Percent Solids: 92.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		71	24	ug/Kg	☼	05/31/17 13:09	06/01/17 18:43	1
Acenaphthylene	ND		71	24	ug/Kg	☼	05/31/17 13:09	06/01/17 18:43	1
Acetophenone	ND		710	24	ug/Kg	☼	05/31/17 13:09	06/01/17 18:43	1
Anthracene	ND		71	26	ug/Kg	☼	05/31/17 13:09	06/01/17 18:43	1
Atrazine	ND		710	49	ug/Kg	☼	05/31/17 13:09	06/01/17 18:43	1
Benzaldehyde	ND	*	710	23	ug/Kg	☼	05/31/17 13:09	06/01/17 18:43	1
Benzo[a]anthracene	ND		71	28	ug/Kg	☼	05/31/17 13:09	06/01/17 18:43	1
Benzo[a]pyrene	ND		71	29	ug/Kg	☼	05/31/17 13:09	06/01/17 18:43	1
Benzo[b]fluoranthene	ND		71	31	ug/Kg	☼	05/31/17 13:09	06/01/17 18:43	1
Benzo[g,h,i]perylene	ND		71	31	ug/Kg	☼	05/31/17 13:09	06/01/17 18:43	1
Benzo[k]fluoranthene	ND		71	24	ug/Kg	☼	05/31/17 13:09	06/01/17 18:43	1
1,1'-Biphenyl	ND		350	28	ug/Kg	☼	05/31/17 13:09	06/01/17 18:43	1
Bis(2-chloroethoxy)methane	ND		350	20	ug/Kg	☼	05/31/17 13:09	06/01/17 18:43	1
Bis(2-chloroethyl)ether	ND		71	21	ug/Kg	☼	05/31/17 13:09	06/01/17 18:43	1
Bis(2-ethylhexyl) phthalate	ND		710	240	ug/Kg	☼	05/31/17 13:09	06/01/17 18:43	1
4-Bromophenyl phenyl ether	ND		350	34	ug/Kg	☼	05/31/17 13:09	06/01/17 18:43	1
Butyl benzyl phthalate	ND		350	260	ug/Kg	☼	05/31/17 13:09	06/01/17 18:43	1
Caprolactam	ND		1800	170	ug/Kg	☼	05/31/17 13:09	06/01/17 18:43	1
Carbazole	ND		71	30	ug/Kg	☼	05/31/17 13:09	06/01/17 18:43	1
4-Chloroaniline	ND		350	20	ug/Kg	☼	05/31/17 13:09	06/01/17 18:43	1
4-Chloro-3-methylphenol	ND		350	37	ug/Kg	☼	05/31/17 13:09	06/01/17 18:43	1
2-Chloronaphthalene	ND		71	23	ug/Kg	☼	05/31/17 13:09	06/01/17 18:43	1
2-Chlorophenol	ND		350	25	ug/Kg	☼	05/31/17 13:09	06/01/17 18:43	1
4-Chlorophenyl phenyl ether	ND		350	25	ug/Kg	☼	05/31/17 13:09	06/01/17 18:43	1
Chrysene	ND		71	28	ug/Kg	☼	05/31/17 13:09	06/01/17 18:43	1
Dibenz(a,h)anthracene	ND		71	29	ug/Kg	☼	05/31/17 13:09	06/01/17 18:43	1
Dibenzofuran	ND		350	28	ug/Kg	☼	05/31/17 13:09	06/01/17 18:43	1
3,3'-Dichlorobenzidine	ND		350	150	ug/Kg	☼	05/31/17 13:09	06/01/17 18:43	1
2,4-Dichlorophenol	ND		71	29	ug/Kg	☼	05/31/17 13:09	06/01/17 18:43	1
Diethyl phthalate	ND		350	31	ug/Kg	☼	05/31/17 13:09	06/01/17 18:43	1
2,4-Dimethylphenol	ND		350	27	ug/Kg	☼	05/31/17 13:09	06/01/17 18:43	1
Dimethyl phthalate	ND		350	25	ug/Kg	☼	05/31/17 13:09	06/01/17 18:43	1
Di-n-butyl phthalate	ND		350	28	ug/Kg	☼	05/31/17 13:09	06/01/17 18:43	1
4,6-Dinitro-2-methylphenol	ND		1800	650	ug/Kg	☼	05/31/17 13:09	06/01/17 18:43	1
2,4-Dinitrophenol	ND		3500	720	ug/Kg	☼	05/31/17 13:09	06/01/17 18:43	1
2,4-Dinitrotoluene	ND		350	47	ug/Kg	☼	05/31/17 13:09	06/01/17 18:43	1
2,6-Dinitrotoluene	ND		350	25	ug/Kg	☼	05/31/17 13:09	06/01/17 18:43	1
Di-n-octyl phthalate	ND		350	42	ug/Kg	☼	05/31/17 13:09	06/01/17 18:43	1
1,4-Dioxane	ND		710	53	ug/Kg	☼	05/31/17 13:09	06/01/17 18:43	1
Fluoranthene	ND		71	28	ug/Kg	☼	05/31/17 13:09	06/01/17 18:43	1
Fluorene	ND		71	25	ug/Kg	☼	05/31/17 13:09	06/01/17 18:43	1
Hexachlorobenzene	ND		71	28	ug/Kg	☼	05/31/17 13:09	06/01/17 18:43	1
Hexachlorobutadiene	ND		71	22	ug/Kg	☼	05/31/17 13:09	06/01/17 18:43	1
Hexachlorocyclopentadiene	ND		350	30	ug/Kg	☼	05/31/17 13:09	06/01/17 18:43	1
Hexachloroethane	ND		350	25	ug/Kg	☼	05/31/17 13:09	06/01/17 18:43	1
Indeno[1,2,3-cd]pyrene	ND		71	27	ug/Kg	☼	05/31/17 13:09	06/01/17 18:43	1
Isophorone	ND		350	20	ug/Kg	☼	05/31/17 13:09	06/01/17 18:43	1
2-Methylnaphthalene	ND		71	27	ug/Kg	☼	05/31/17 13:09	06/01/17 18:43	1
2-Methylphenol	ND		350	31	ug/Kg	☼	05/31/17 13:09	06/01/17 18:43	1

Client Sample ID: SSHS-B819-SUB-14-16
Date Collected: 05/23/17 08:00
Date Received: 05/24/17 09:15

Lab Sample ID: 180-66622-17
Matrix: Solid
Percent Solids: 92.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylphenol, 3 & 4	ND		350	31	ug/Kg	☼	05/31/17 13:09	06/01/17 18:43	1
Naphthalene	ND		71	25	ug/Kg	☼	05/31/17 13:09	06/01/17 18:43	1
2-Nitroaniline	ND		1800	120	ug/Kg	☼	05/31/17 13:09	06/01/17 18:43	1
3-Nitroaniline	ND		1800	100	ug/Kg	☼	05/31/17 13:09	06/01/17 18:43	1
4-Nitroaniline	ND		1800	130	ug/Kg	☼	05/31/17 13:09	06/01/17 18:43	1
Nitrobenzene	ND		710	27	ug/Kg	☼	05/31/17 13:09	06/01/17 18:43	1
2-Nitrophenol	ND		350	26	ug/Kg	☼	05/31/17 13:09	06/01/17 18:43	1
4-Nitrophenol	ND		1800	370	ug/Kg	☼	05/31/17 13:09	06/01/17 18:43	1
N-Nitrosodi-n-propylamine	ND		71	24	ug/Kg	☼	05/31/17 13:09	06/01/17 18:43	1
N-Nitrosodiphenylamine	ND		350	56	ug/Kg	☼	05/31/17 13:09	06/01/17 18:43	1
2,2'-oxybis[1-chloropropane]	ND		71	23	ug/Kg	☼	05/31/17 13:09	06/01/17 18:43	1
Pentachlorophenol	ND		1800	670	ug/Kg	☼	05/31/17 13:09	06/01/17 18:43	1
Phenanthrene	ND		71	30	ug/Kg	☼	05/31/17 13:09	06/01/17 18:43	1
Phenol	ND		350	48	ug/Kg	☼	05/31/17 13:09	06/01/17 18:43	1
Pyrene	ND		71	32	ug/Kg	☼	05/31/17 13:09	06/01/17 18:43	1
1,2,4,5-Tetrachlorobenzene	ND		350	25	ug/Kg	☼	05/31/17 13:09	06/01/17 18:43	1
2,3,4,6-Tetrachlorophenol	ND		350	28	ug/Kg	☼	05/31/17 13:09	06/01/17 18:43	1
2,4,5-Trichlorophenol	ND		350	34	ug/Kg	☼	05/31/17 13:09	06/01/17 18:43	1
2,4,6-Trichlorophenol	ND		350	31	ug/Kg	☼	05/31/17 13:09	06/01/17 18:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*69*		*34 - 100*	*05/31/17 13:09*	*06/01/17 18:43*	*1*
2-Fluorophenol (Surr)	*72*		*24 - 109*	*05/31/17 13:09*	*06/01/17 18:43*	*1*
Nitrobenzene-d5 (Surr)	*75*		*31 - 105*	*05/31/17 13:09*	*06/01/17 18:43*	*1*
Phenol-d5 (Surr)	*65*		*24 - 106*	*05/31/17 13:09*	*06/01/17 18:43*	*1*
Terphenyl-d14 (Surr)	*71*		*34 - 104*	*05/31/17 13:09*	*06/01/17 18:43*	*1*
2,4,6-Tribromophenol (Surr)	*78*		*21 - 114*	*05/31/17 13:09*	*06/01/17 18:43*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		18	9.4	ug/Kg	☼	05/31/17 03:47	05/31/17 20:45	1
PCB-1221	ND		18	9.2	ug/Kg	☼	05/31/17 03:47	05/31/17 20:45	1
PCB-1232	ND		18	7.0	ug/Kg	☼	05/31/17 03:47	05/31/17 20:45	1
PCB-1242	ND		18	14	ug/Kg	☼	05/31/17 03:47	05/31/17 20:45	1
PCB-1248	ND		18	8.4	ug/Kg	☼	05/31/17 03:47	05/31/17 20:45	1
PCB-1254	ND		18	7.8	ug/Kg	☼	05/31/17 03:47	05/31/17 20:45	1
PCB-1260	ND		18	12	ug/Kg	☼	05/31/17 03:47	05/31/17 20:45	1
PCB-1262	ND		18	13	ug/Kg	☼	05/31/17 03:47	05/31/17 20:45	1
PCB-1268	ND		18	5.4	ug/Kg	☼	05/31/17 03:47	05/31/17 20:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*78*		*23 - 150*	*05/31/17 03:47*	*05/31/17 20:45*	*1*
DCB Decachlorobiphenyl (Surr)	*85*		*23 - 150*	*05/31/17 03:47*	*05/31/17 20:45*	*1*
Tetrachloro-m-xylene (Surr)	*80*		*27 - 138*	*05/31/17 03:47*	*05/31/17 20:45*	*1*
Tetrachloro-m-xylene (Surr)	*83*		*27 - 138*	*05/31/17 03:47*	*05/31/17 20:45*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**7.7**		0.1	0.1	%			05/31/17 16:46	1
Percent Solids	**92.3**		0.1	0.1	%			05/31/17 16:46	1

Client Sample ID: DW-FD-2
Date Collected: 05/23/17 00:00
Date Received: 05/24/17 09:15

Lab Sample ID: 180-66622-18
Matrix: Solid
Percent Solids: 93.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		71	24	ug/Kg	☼	05/31/17 13:09	06/01/17 19:11	1
Acenaphthylene	ND		71	24	ug/Kg	☼	05/31/17 13:09	06/01/17 19:11	1
Acetophenone	ND		710	24	ug/Kg	☼	05/31/17 13:09	06/01/17 19:11	1
Anthracene	ND		71	26	ug/Kg	☼	05/31/17 13:09	06/01/17 19:11	1
Atrazine	ND		710	49	ug/Kg	☼	05/31/17 13:09	06/01/17 19:11	1
Benzaldehyde	ND	*	710	23	ug/Kg	☼	05/31/17 13:09	06/01/17 19:11	1
Benzo[a]anthracene	ND		71	28	ug/Kg	☼	05/31/17 13:09	06/01/17 19:11	1
Benzo[a]pyrene	ND		71	29	ug/Kg	☼	05/31/17 13:09	06/01/17 19:11	1
Benzo[b]fluoranthene	ND		71	31	ug/Kg	☼	05/31/17 13:09	06/01/17 19:11	1
Benzo[g,h,i]perylene	ND		71	31	ug/Kg	☼	05/31/17 13:09	06/01/17 19:11	1
Benzo[k]fluoranthene	ND		71	24	ug/Kg	☼	05/31/17 13:09	06/01/17 19:11	1
1,1'-Biphenyl	ND		350	28	ug/Kg	☼	05/31/17 13:09	06/01/17 19:11	1
Bis(2-chloroethoxy)methane	ND		350	20	ug/Kg	☼	05/31/17 13:09	06/01/17 19:11	1
Bis(2-chloroethyl)ether	ND		71	21	ug/Kg	☼	05/31/17 13:09	06/01/17 19:11	1
Bis(2-ethylhexyl) phthalate	ND		710	240	ug/Kg	☼	05/31/17 13:09	06/01/17 19:11	1
4-Bromophenyl phenyl ether	ND		350	34	ug/Kg	☼	05/31/17 13:09	06/01/17 19:11	1
Butyl benzyl phthalate	ND		350	260	ug/Kg	☼	05/31/17 13:09	06/01/17 19:11	1
Caprolactam	ND		1800	170	ug/Kg	☼	05/31/17 13:09	06/01/17 19:11	1
Carbazole	ND		71	30	ug/Kg	☼	05/31/17 13:09	06/01/17 19:11	1
4-Chloroaniline	ND		350	20	ug/Kg	☼	05/31/17 13:09	06/01/17 19:11	1
4-Chloro-3-methylphenol	ND		350	37	ug/Kg	☼	05/31/17 13:09	06/01/17 19:11	1
2-Chloronaphthalene	ND		71	23	ug/Kg	☼	05/31/17 13:09	06/01/17 19:11	1
2-Chlorophenol	ND		350	25	ug/Kg	☼	05/31/17 13:09	06/01/17 19:11	1
4-Chlorophenyl phenyl ether	ND		350	25	ug/Kg	☼	05/31/17 13:09	06/01/17 19:11	1
Chrysene	ND		71	28	ug/Kg	☼	05/31/17 13:09	06/01/17 19:11	1
Dibenz(a,h)anthracene	ND		71	29	ug/Kg	☼	05/31/17 13:09	06/01/17 19:11	1
Dibenzofuran	ND		350	28	ug/Kg	☼	05/31/17 13:09	06/01/17 19:11	1
3,3'-Dichlorobenzidine	ND		350	150	ug/Kg	☼	05/31/17 13:09	06/01/17 19:11	1
2,4-Dichlorophenol	ND		71	29	ug/Kg	☼	05/31/17 13:09	06/01/17 19:11	1
Diethyl phthalate	ND		350	31	ug/Kg	☼	05/31/17 13:09	06/01/17 19:11	1
2,4-Dimethylphenol	ND		350	27	ug/Kg	☼	05/31/17 13:09	06/01/17 19:11	1
Dimethyl phthalate	ND		350	24	ug/Kg	☼	05/31/17 13:09	06/01/17 19:11	1
Di-n-butyl phthalate	ND		350	28	ug/Kg	☼	05/31/17 13:09	06/01/17 19:11	1
4,6-Dinitro-2-methylphenol	ND		1800	650	ug/Kg	☼	05/31/17 13:09	06/01/17 19:11	1
2,4-Dinitrophenol	ND		3500	710	ug/Kg	☼	05/31/17 13:09	06/01/17 19:11	1
2,4-Dinitrotoluene	ND		350	47	ug/Kg	☼	05/31/17 13:09	06/01/17 19:11	1
2,6-Dinitrotoluene	ND		350	24	ug/Kg	☼	05/31/17 13:09	06/01/17 19:11	1
Di-n-octyl phthalate	ND		350	42	ug/Kg	☼	05/31/17 13:09	06/01/17 19:11	1
1,4-Dioxane	ND		710	53	ug/Kg	☼	05/31/17 13:09	06/01/17 19:11	1
Fluoranthene	ND		71	28	ug/Kg	☼	05/31/17 13:09	06/01/17 19:11	1
Fluorene	ND		71	25	ug/Kg	☼	05/31/17 13:09	06/01/17 19:11	1
Hexachlorobenzene	ND		71	28	ug/Kg	☼	05/31/17 13:09	06/01/17 19:11	1
Hexachlorobutadiene	ND		71	22	ug/Kg	☼	05/31/17 13:09	06/01/17 19:11	1
Hexachlorocyclopentadiene	ND		350	30	ug/Kg	☼	05/31/17 13:09	06/01/17 19:11	1
Hexachloroethane	ND		350	25	ug/Kg	☼	05/31/17 13:09	06/01/17 19:11	1
Indeno[1,2,3-cd]pyrene	ND		71	27	ug/Kg	☼	05/31/17 13:09	06/01/17 19:11	1
Isophorone	ND		350	19	ug/Kg	☼	05/31/17 13:09	06/01/17 19:11	1
2-Methylnaphthalene	ND		71	27	ug/Kg	☼	05/31/17 13:09	06/01/17 19:11	1
2-Methylphenol	ND		350	31	ug/Kg	☼	05/31/17 13:09	06/01/17 19:11	1

Client Sample ID: DW-FD-2
Date Collected: 05/23/17 00:00
Date Received: 05/24/17 09:15

Lab Sample ID: 180-66622-18
Matrix: Solid
Percent Solids: 93.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylphenol, 3 & 4	ND		350	31	ug/Kg	☼	05/31/17 13:09	06/01/17 19:11	1
Naphthalene	ND		71	25	ug/Kg	☼	05/31/17 13:09	06/01/17 19:11	1
2-Nitroaniline	ND		1800	120	ug/Kg	☼	05/31/17 13:09	06/01/17 19:11	1
3-Nitroaniline	ND		1800	100	ug/Kg	☼	05/31/17 13:09	06/01/17 19:11	1
4-Nitroaniline	ND		1800	130	ug/Kg	☼	05/31/17 13:09	06/01/17 19:11	1
Nitrobenzene	ND		710	27	ug/Kg	☼	05/31/17 13:09	06/01/17 19:11	1
2-Nitrophenol	ND		350	26	ug/Kg	☼	05/31/17 13:09	06/01/17 19:11	1
4-Nitrophenol	ND		1800	370	ug/Kg	☼	05/31/17 13:09	06/01/17 19:11	1
N-Nitrosodi-n-propylamine	ND		71	24	ug/Kg	☼	05/31/17 13:09	06/01/17 19:11	1
N-Nitrosodiphenylamine	ND		350	55	ug/Kg	☼	05/31/17 13:09	06/01/17 19:11	1
2,2'-oxybis[1-chloropropane]	ND		71	23	ug/Kg	☼	05/31/17 13:09	06/01/17 19:11	1
Pentachlorophenol	ND		1800	670	ug/Kg	☼	05/31/17 13:09	06/01/17 19:11	1
Phenanthrene	ND		71	29	ug/Kg	☼	05/31/17 13:09	06/01/17 19:11	1
Phenol	ND		350	48	ug/Kg	☼	05/31/17 13:09	06/01/17 19:11	1
Pyrene	ND		71	31	ug/Kg	☼	05/31/17 13:09	06/01/17 19:11	1
1,2,4,5-Tetrachlorobenzene	ND		350	25	ug/Kg	☼	05/31/17 13:09	06/01/17 19:11	1
2,3,4,6-Tetrachlorophenol	ND		350	28	ug/Kg	☼	05/31/17 13:09	06/01/17 19:11	1
2,4,5-Trichlorophenol	ND		350	34	ug/Kg	☼	05/31/17 13:09	06/01/17 19:11	1
2,4,6-Trichlorophenol	ND		350	31	ug/Kg	☼	05/31/17 13:09	06/01/17 19:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*79*		*34 - 100*	*05/31/17 13:09*	*06/01/17 19:11*	*1*
2-Fluorophenol (Surr)	*75*		*24 - 109*	*05/31/17 13:09*	*06/01/17 19:11*	*1*
Nitrobenzene-d5 (Surr)	*83*		*31 - 105*	*05/31/17 13:09*	*06/01/17 19:11*	*1*
Phenol-d5 (Surr)	*69*		*24 - 106*	*05/31/17 13:09*	*06/01/17 19:11*	*1*
Terphenyl-d14 (Surr)	*80*		*34 - 104*	*05/31/17 13:09*	*06/01/17 19:11*	*1*
2,4,6-Tribromophenol (Surr)	*81*		*21 - 114*	*05/31/17 13:09*	*06/01/17 19:11*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		18	9.5	ug/Kg	☼	05/31/17 13:13	06/01/17 08:58	1
PCB-1221	ND		18	9.2	ug/Kg	☼	05/31/17 13:13	06/01/17 08:58	1
PCB-1232	ND		18	7.1	ug/Kg	☼	05/31/17 13:13	06/01/17 08:58	1
PCB-1242	ND		18	14	ug/Kg	☼	05/31/17 13:13	06/01/17 08:58	1
PCB-1248	ND		18	8.5	ug/Kg	☼	05/31/17 13:13	06/01/17 08:58	1
PCB-1254	ND		18	7.8	ug/Kg	☼	05/31/17 13:13	06/01/17 08:58	1
PCB-1260	ND		18	12	ug/Kg	☼	05/31/17 13:13	06/01/17 08:58	1
PCB-1262	ND		18	13	ug/Kg	☼	05/31/17 13:13	06/01/17 08:58	1
PCB-1268	ND		18	5.4	ug/Kg	☼	05/31/17 13:13	06/01/17 08:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*77*		*23 - 150*	*05/31/17 13:13*	*06/01/17 08:58*	*1*
DCB Decachlorobiphenyl (Surr)	*87*		*23 - 150*	*05/31/17 13:13*	*06/01/17 08:58*	*1*
Tetrachloro-m-xylene (Surr)	*82*		*27 - 138*	*05/31/17 13:13*	*06/01/17 08:58*	*1*
Tetrachloro-m-xylene (Surr)	*85*		*27 - 138*	*05/31/17 13:13*	*06/01/17 08:58*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**6.7**		0.1	0.1	%			05/31/17 16:46	1
Percent Solids	**93.3**		0.1	0.1	%			05/31/17 16:46	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 180-212678/1-A
Matrix: Solid
Analysis Batch: 212748

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 212678

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		67	22	ug/Kg		05/30/17 13:04	05/31/17 11:10	1
Acenaphthylene	ND		67	23	ug/Kg		05/30/17 13:04	05/31/17 11:10	1
Acetophenone	ND		670	23	ug/Kg		05/30/17 13:04	05/31/17 11:10	1
Anthracene	ND		67	25	ug/Kg		05/30/17 13:04	05/31/17 11:10	1
Atrazine	ND		670	46	ug/Kg		05/30/17 13:04	05/31/17 11:10	1
Benzaldehyde	ND		670	22	ug/Kg		05/30/17 13:04	05/31/17 11:10	1
Benzo[a]anthracene	ND		67	26	ug/Kg		05/30/17 13:04	05/31/17 11:10	1
Benzo[a]pyrene	ND		67	28	ug/Kg		05/30/17 13:04	05/31/17 11:10	1
Benzo[b]fluoranthene	ND		67	29	ug/Kg		05/30/17 13:04	05/31/17 11:10	1
Benzo[g,h,i]perylene	ND		67	29	ug/Kg		05/30/17 13:04	05/31/17 11:10	1
Benzo[k]fluoranthene	ND		67	23	ug/Kg		05/30/17 13:04	05/31/17 11:10	1
1,1'-Biphenyl	ND		330	26	ug/Kg		05/30/17 13:04	05/31/17 11:10	1
Bis(2-chloroethoxy)methane	ND		330	19	ug/Kg		05/30/17 13:04	05/31/17 11:10	1
Bis(2-chloroethyl)ether	ND		67	20	ug/Kg		05/30/17 13:04	05/31/17 11:10	1
Bis(2-ethylhexyl) phthalate	ND		670	220	ug/Kg		05/30/17 13:04	05/31/17 11:10	1
4-Bromophenyl phenyl ether	ND		330	32	ug/Kg		05/30/17 13:04	05/31/17 11:10	1
Butyl benzyl phthalate	ND		330	250	ug/Kg		05/30/17 13:04	05/31/17 11:10	1
Caprolactam	ND		1700	160	ug/Kg		05/30/17 13:04	05/31/17 11:10	1
Carbazole	ND		67	28	ug/Kg		05/30/17 13:04	05/31/17 11:10	1
4-Chloroaniline	ND		330	19	ug/Kg		05/30/17 13:04	05/31/17 11:10	1
4-Chloro-3-methylphenol	ND		330	35	ug/Kg		05/30/17 13:04	05/31/17 11:10	1
2-Chloronaphthalene	ND		67	22	ug/Kg		05/30/17 13:04	05/31/17 11:10	1
2-Chlorophenol	ND		330	24	ug/Kg		05/30/17 13:04	05/31/17 11:10	1
4-Chlorophenyl phenyl ether	ND		330	24	ug/Kg		05/30/17 13:04	05/31/17 11:10	1
Chrysene	ND		67	26	ug/Kg		05/30/17 13:04	05/31/17 11:10	1
Dibenz(a,h)anthracene	ND		67	28	ug/Kg		05/30/17 13:04	05/31/17 11:10	1
Dibenzofuran	ND		330	27	ug/Kg		05/30/17 13:04	05/31/17 11:10	1
3,3'-Dichlorobenzidine	ND		330	140	ug/Kg		05/30/17 13:04	05/31/17 11:10	1
2,4-Dichlorophenol	ND		67	27	ug/Kg		05/30/17 13:04	05/31/17 11:10	1
Diethyl phthalate	ND		330	30	ug/Kg		05/30/17 13:04	05/31/17 11:10	1
2,4-Dimethylphenol	ND		330	26	ug/Kg		05/30/17 13:04	05/31/17 11:10	1
Dimethyl phthalate	ND		330	23	ug/Kg		05/30/17 13:04	05/31/17 11:10	1
Di-n-butyl phthalate	ND		330	26	ug/Kg		05/30/17 13:04	05/31/17 11:10	1
4,6-Dinitro-2-methylphenol	ND		1700	620	ug/Kg		05/30/17 13:04	05/31/17 11:10	1
2,4-Dinitrophenol	ND		3300	670	ug/Kg		05/30/17 13:04	05/31/17 11:10	1
2,4-Dinitrotoluene	ND		330	44	ug/Kg		05/30/17 13:04	05/31/17 11:10	1
2,6-Dinitrotoluene	ND		330	23	ug/Kg		05/30/17 13:04	05/31/17 11:10	1
Di-n-octyl phthalate	ND		330	40	ug/Kg		05/30/17 13:04	05/31/17 11:10	1
1,4-Dioxane	ND		670	50	ug/Kg		05/30/17 13:04	05/31/17 11:10	1
Fluoranthene	ND		67	26	ug/Kg		05/30/17 13:04	05/31/17 11:10	1
Fluorene	ND		67	24	ug/Kg		05/30/17 13:04	05/31/17 11:10	1
Hexachlorobenzene	ND		67	27	ug/Kg		05/30/17 13:04	05/31/17 11:10	1
Hexachlorobutadiene	ND		67	21	ug/Kg		05/30/17 13:04	05/31/17 11:10	1
Hexachlorocyclopentadiene	ND		330	28	ug/Kg		05/30/17 13:04	05/31/17 11:10	1
Hexachloroethane	ND		330	24	ug/Kg		05/30/17 13:04	05/31/17 11:10	1
Indeno[1,2,3-cd]pyrene	ND		67	26	ug/Kg		05/30/17 13:04	05/31/17 11:10	1
Isophorone	ND		330	18	ug/Kg		05/30/17 13:04	05/31/17 11:10	1
2-Methylnaphthalene	ND		67	26	ug/Kg		05/30/17 13:04	05/31/17 11:10	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 180-212678/1-A
Matrix: Solid
Analysis Batch: 212748

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 212678

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	ND		330	29	ug/Kg		05/30/17 13:04	05/31/17 11:10	1
Methylphenol, 3 & 4	ND		330	30	ug/Kg		05/30/17 13:04	05/31/17 11:10	1
Naphthalene	ND		67	24	ug/Kg		05/30/17 13:04	05/31/17 11:10	1
2-Nitroaniline	ND		1700	110	ug/Kg		05/30/17 13:04	05/31/17 11:10	1
3-Nitroaniline	ND		1700	97	ug/Kg		05/30/17 13:04	05/31/17 11:10	1
4-Nitroaniline	ND		1700	120	ug/Kg		05/30/17 13:04	05/31/17 11:10	1
Nitrobenzene	ND		670	25	ug/Kg		05/30/17 13:04	05/31/17 11:10	1
2-Nitrophenol	ND		330	24	ug/Kg		05/30/17 13:04	05/31/17 11:10	1
4-Nitrophenol	ND		1700	350	ug/Kg		05/30/17 13:04	05/31/17 11:10	1
N-Nitrosodi-n-propylamine	ND		67	23	ug/Kg		05/30/17 13:04	05/31/17 11:10	1
N-Nitrosodiphenylamine	ND		330	52	ug/Kg		05/30/17 13:04	05/31/17 11:10	1
2,2'-oxybis[1-chloropropane]	ND		67	22	ug/Kg		05/30/17 13:04	05/31/17 11:10	1
Pentachlorophenol	ND		1700	630	ug/Kg		05/30/17 13:04	05/31/17 11:10	1
Phenanthrene	ND		67	28	ug/Kg		05/30/17 13:04	05/31/17 11:10	1
Phenol	ND		330	45	ug/Kg		05/30/17 13:04	05/31/17 11:10	1
Pyrene	ND		67	30	ug/Kg		05/30/17 13:04	05/31/17 11:10	1
1,2,4,5-Tetrachlorobenzene	ND		330	24	ug/Kg		05/30/17 13:04	05/31/17 11:10	1
2,3,4,6-Tetrachlorophenol	ND		330	27	ug/Kg		05/30/17 13:04	05/31/17 11:10	1
2,4,5-Trichlorophenol	ND		330	32	ug/Kg		05/30/17 13:04	05/31/17 11:10	1
2,4,6-Trichlorophenol	ND		330	29	ug/Kg		05/30/17 13:04	05/31/17 11:10	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*52*		*34 - 100*	*05/30/17 13:04*	*05/31/17 11:10*	*1*
2-Fluorophenol (Surr)	*62*		*24 - 109*	*05/30/17 13:04*	*05/31/17 11:10*	*1*
Nitrobenzene-d5 (Surr)	*70*		*31 - 105*	*05/30/17 13:04*	*05/31/17 11:10*	*1*
Phenol-d5 (Surr)	*65*		*24 - 106*	*05/30/17 13:04*	*05/31/17 11:10*	*1*
Terphenyl-d14 (Surr)	*61*		*34 - 104*	*05/30/17 13:04*	*05/31/17 11:10*	*1*
2,4,6-Tribromophenol (Surr)	*52*		*21 - 114*	*05/30/17 13:04*	*05/31/17 11:10*	*1*

Lab Sample ID: LCS 180-212678/2-A
Matrix: Solid
Analysis Batch: 212748

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 212678

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	6670	4100		ug/Kg		61	40 - 100
Acenaphthylene	6670	3950		ug/Kg		59	44 - 100
Acetophenone	6670	3980		ug/Kg		60	33 - 100
Anthracene	6670	4570		ug/Kg		69	45 - 100
Atrazine	6670	2730		ug/Kg		41	17 - 123
Benzaldehyde	6670	4820		ug/Kg		72	10 - 107
Benzo[a]anthracene	6670	4520		ug/Kg		68	45 - 100
Benzo[a]pyrene	6670	4650		ug/Kg		70	43 - 102
Benzo[b]fluoranthene	6670	4750		ug/Kg		71	40 - 100
Benzo[g,h,i]perylene	6670	4240		ug/Kg		64	41 - 110
Benzo[k]fluoranthene	6670	4760		ug/Kg		71	41 - 100
1,1'-Biphenyl	6670	4090		ug/Kg		61	41 - 100
Bis(2-chloroethoxy)methane	6670	4710		ug/Kg		71	41 - 100
Bis(2-chloroethyl)ether	6670	4860		ug/Kg		73	39 - 100

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 180-212678/2-A
Matrix: Solid
Analysis Batch: 212748

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 212678

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bis(2-ethylhexyl) phthalate	6670	6210		ug/Kg		93	46 - 107
4-Bromophenyl phenyl ether	6670	4270		ug/Kg		64	46 - 101
Butyl benzyl phthalate	6670	6150		ug/Kg		92	45 - 108
Caprolactam	6670	4890		ug/Kg		73	40 - 114
Carbazole	6670	4510		ug/Kg		68	42 - 103
4-Chloroaniline	6670	4420		ug/Kg		66	42 - 100
4-Chloro-3-methylphenol	6670	4970		ug/Kg		75	39 - 109
2-Chloronaphthalene	6670	4320		ug/Kg		65	42 - 100
2-Chlorophenol	6670	4580		ug/Kg		69	35 - 105
4-Chlorophenyl phenyl ether	6670	3970		ug/Kg		60	46 - 100
Chrysene	6670	4450		ug/Kg		67	45 - 100
Dibenz(a,h)anthracene	6670	4450		ug/Kg		67	42 - 110
Dibenzofuran	6670	4240		ug/Kg		64	44 - 100
3,3'-Dichlorobenzidine	6670	5540		ug/Kg		83	39 - 100
2,4-Dichlorophenol	6670	4910		ug/Kg		74	39 - 106
Diethyl phthalate	6670	4310		ug/Kg		65	46 - 102
2,4-Dimethylphenol	6670	5080		ug/Kg		76	36 - 107
Dimethyl phthalate	6670	4540		ug/Kg		68	47 - 102
Di-n-butyl phthalate	6670	4900		ug/Kg		73	46 - 107
4,6-Dinitro-2-methylphenol	13300	8650		ug/Kg		65	43 - 107
2,4-Dinitrophenol	13300	7650		ug/Kg		57	33 - 106
2,4-Dinitrotoluene	6670	4610		ug/Kg		69	46 - 112
2,6-Dinitrotoluene	6670	4520		ug/Kg		68	48 - 104
Di-n-octyl phthalate	6670	5940		ug/Kg		89	41 - 105
1,4-Dioxane	6670	5140		ug/Kg		77	13 - 122
Fluoranthene	6670	4480		ug/Kg		67	43 - 106
Fluorene	6670	4090		ug/Kg		61	42 - 100
Hexachlorobenzene	6670	4120		ug/Kg		62	46 - 100
Hexachlorobutadiene	6670	4290		ug/Kg		64	42 - 102
Hexachlorocyclopentadiene	6670	3310		ug/Kg		50	35 - 110
Hexachloroethane	6670	4580		ug/Kg		69	38 - 100
Indeno[1,2,3-cd]pyrene	6670	4520		ug/Kg		68	41 - 110
Isophorone	6670	4970		ug/Kg		75	40 - 104
2-Methylnaphthalene	6670	4340		ug/Kg		65	42 - 100
2-Methylphenol	6670	4840		ug/Kg		73	34 - 106
Methylphenol, 3 & 4	6670	4730		ug/Kg		71	35 - 106
Naphthalene	6670	4640		ug/Kg		70	40 - 100
2-Nitroaniline	6670	5200		ug/Kg		78	40 - 114
3-Nitroaniline	6670	4490		ug/Kg		67	43 - 109
4-Nitroaniline	6670	4380		ug/Kg		66	37 - 115
Nitrobenzene	6670	5340		ug/Kg		80	38 - 104
2-Nitrophenol	6670	4810		ug/Kg		72	43 - 109
4-Nitrophenol	13300	9780		ug/Kg		73	22 - 140
N-Nitrosodi-n-propylamine	6670	4790		ug/Kg		72	39 - 103
N-Nitrosodiphenylamine	6670	4290		ug/Kg		64	43 - 100
2,2'-oxybis[1-chloropropane]	6670	5670		ug/Kg		85	27 - 104
Pentachlorophenol	13300	7920		ug/Kg		59	26 - 115
Phenanthrene	6670	4660		ug/Kg		70	43 - 100

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 180-212678/2-A
Matrix: Solid
Analysis Batch: 212748

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 212678

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenol	6670	4920		ug/Kg		74	30 - 105
Pyrene	6670	5110		ug/Kg		77	42 - 100
1,2,4,5-Tetrachlorobenzene	6670	3790		ug/Kg		57	41 - 100
2,3,4,6-Tetrachlorophenol	6670	3830		ug/Kg		57	41 - 107
2,4,5-Trichlorophenol	6670	4240		ug/Kg		64	44 - 103
2,4,6-Trichlorophenol	6670	4320		ug/Kg		65	44 - 107

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*53*		*34 - 100*
2-Fluorophenol (Surr)	*67*		*24 - 109*
Nitrobenzene-d5 (Surr)	*74*		*31 - 105*
Phenol-d5 (Surr)	*70*		*24 - 106*
Terphenyl-d14 (Surr)	*64*		*34 - 104*
2,4,6-Tribromophenol (Surr)	*54*		*21 - 114*

Lab Sample ID: MB 180-212795/1-A
Matrix: Solid
Analysis Batch: 212904

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 212795

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		67	22	ug/Kg		05/31/17 13:09	06/01/17 11:50	1
Acenaphthylene	ND		67	23	ug/Kg		05/31/17 13:09	06/01/17 11:50	1
Acetophenone	ND		670	23	ug/Kg		05/31/17 13:09	06/01/17 11:50	1
Anthracene	ND		67	25	ug/Kg		05/31/17 13:09	06/01/17 11:50	1
Atrazine	ND		670	46	ug/Kg		05/31/17 13:09	06/01/17 11:50	1
Benzaldehyde	ND		670	22	ug/Kg		05/31/17 13:09	06/01/17 11:50	1
Benzo[a]anthracene	ND		67	26	ug/Kg		05/31/17 13:09	06/01/17 11:50	1
Benzo[a]pyrene	ND		67	28	ug/Kg		05/31/17 13:09	06/01/17 11:50	1
Benzo[b]fluoranthene	ND		67	29	ug/Kg		05/31/17 13:09	06/01/17 11:50	1
Benzo[g,h,i]perylene	ND		67	29	ug/Kg		05/31/17 13:09	06/01/17 11:50	1
Benzo[k]fluoranthene	ND		67	23	ug/Kg		05/31/17 13:09	06/01/17 11:50	1
1,1'-Biphenyl	ND		330	26	ug/Kg		05/31/17 13:09	06/01/17 11:50	1
Bis(2-chloroethoxy)methane	ND		330	19	ug/Kg		05/31/17 13:09	06/01/17 11:50	1
Bis(2-chloroethyl)ether	ND		67	20	ug/Kg		05/31/17 13:09	06/01/17 11:50	1
Bis(2-ethylhexyl) phthalate	ND		670	220	ug/Kg		05/31/17 13:09	06/01/17 11:50	1
4-Bromophenyl phenyl ether	ND		330	32	ug/Kg		05/31/17 13:09	06/01/17 11:50	1
Butyl benzyl phthalate	ND		330	250	ug/Kg		05/31/17 13:09	06/01/17 11:50	1
Caprolactam	ND		1700	160	ug/Kg		05/31/17 13:09	06/01/17 11:50	1
Carbazole	ND		67	28	ug/Kg		05/31/17 13:09	06/01/17 11:50	1
4-Chloroaniline	ND		330	19	ug/Kg		05/31/17 13:09	06/01/17 11:50	1
4-Chloro-3-methylphenol	ND		330	35	ug/Kg		05/31/17 13:09	06/01/17 11:50	1
2-Chloronaphthalene	ND		67	22	ug/Kg		05/31/17 13:09	06/01/17 11:50	1
2-Chlorophenol	ND		330	24	ug/Kg		05/31/17 13:09	06/01/17 11:50	1
4-Chlorophenyl phenyl ether	ND		330	24	ug/Kg		05/31/17 13:09	06/01/17 11:50	1
Chrysene	ND		67	26	ug/Kg		05/31/17 13:09	06/01/17 11:50	1
Dibenz(a,h)anthracene	ND		67	28	ug/Kg		05/31/17 13:09	06/01/17 11:50	1
Dibenzofuran	ND		330	27	ug/Kg		05/31/17 13:09	06/01/17 11:50	1
3,3'-Dichlorobenzidine	ND		330	140	ug/Kg		05/31/17 13:09	06/01/17 11:50	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 180-212795/1-A
Matrix: Solid
Analysis Batch: 212904

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 212795

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenol	ND		67	27	ug/Kg		05/31/17 13:09	06/01/17 11:50	1
Diethyl phthalate	ND		330	30	ug/Kg		05/31/17 13:09	06/01/17 11:50	1
2,4-Dimethylphenol	ND		330	26	ug/Kg		05/31/17 13:09	06/01/17 11:50	1
Dimethyl phthalate	ND		330	23	ug/Kg		05/31/17 13:09	06/01/17 11:50	1
Di-n-butyl phthalate	ND		330	26	ug/Kg		05/31/17 13:09	06/01/17 11:50	1
4,6-Dinitro-2-methylphenol	ND		1700	620	ug/Kg		05/31/17 13:09	06/01/17 11:50	1
2,4-Dinitrophenol	ND		3300	670	ug/Kg		05/31/17 13:09	06/01/17 11:50	1
2,4-Dinitrotoluene	ND		330	44	ug/Kg		05/31/17 13:09	06/01/17 11:50	1
2,6-Dinitrotoluene	ND		330	23	ug/Kg		05/31/17 13:09	06/01/17 11:50	1
Di-n-octyl phthalate	ND		330	40	ug/Kg		05/31/17 13:09	06/01/17 11:50	1
1,4-Dioxane	ND		670	50	ug/Kg		05/31/17 13:09	06/01/17 11:50	1
Fluoranthene	ND		67	26	ug/Kg		05/31/17 13:09	06/01/17 11:50	1
Fluorene	ND		67	24	ug/Kg		05/31/17 13:09	06/01/17 11:50	1
Hexachlorobenzene	ND		67	27	ug/Kg		05/31/17 13:09	06/01/17 11:50	1
Hexachlorobutadiene	ND		67	21	ug/Kg		05/31/17 13:09	06/01/17 11:50	1
Hexachlorocyclopentadiene	ND		330	28	ug/Kg		05/31/17 13:09	06/01/17 11:50	1
Hexachloroethane	ND		330	24	ug/Kg		05/31/17 13:09	06/01/17 11:50	1
Indeno[1,2,3-cd]pyrene	ND		67	26	ug/Kg		05/31/17 13:09	06/01/17 11:50	1
Isophorone	ND		330	18	ug/Kg		05/31/17 13:09	06/01/17 11:50	1
2-Methylnaphthalene	ND		67	26	ug/Kg		05/31/17 13:09	06/01/17 11:50	1
2-Methylphenol	ND		330	29	ug/Kg		05/31/17 13:09	06/01/17 11:50	1
Methylphenol, 3 & 4	ND		330	30	ug/Kg		05/31/17 13:09	06/01/17 11:50	1
Naphthalene	ND		67	24	ug/Kg		05/31/17 13:09	06/01/17 11:50	1
2-Nitroaniline	ND		1700	110	ug/Kg		05/31/17 13:09	06/01/17 11:50	1
3-Nitroaniline	ND		1700	97	ug/Kg		05/31/17 13:09	06/01/17 11:50	1
4-Nitroaniline	ND		1700	120	ug/Kg		05/31/17 13:09	06/01/17 11:50	1
Nitrobenzene	ND		670	25	ug/Kg		05/31/17 13:09	06/01/17 11:50	1
2-Nitrophenol	ND		330	24	ug/Kg		05/31/17 13:09	06/01/17 11:50	1
4-Nitrophenol	ND		1700	350	ug/Kg		05/31/17 13:09	06/01/17 11:50	1
N-Nitrosodi-n-propylamine	ND		67	23	ug/Kg		05/31/17 13:09	06/01/17 11:50	1
N-Nitrosodiphenylamine	ND		330	52	ug/Kg		05/31/17 13:09	06/01/17 11:50	1
2,2'-oxybis[1-chloropropane]	ND		67	22	ug/Kg		05/31/17 13:09	06/01/17 11:50	1
Pentachlorophenol	ND		1700	630	ug/Kg		05/31/17 13:09	06/01/17 11:50	1
Phenanthrene	ND		67	28	ug/Kg		05/31/17 13:09	06/01/17 11:50	1
Phenol	ND		330	45	ug/Kg		05/31/17 13:09	06/01/17 11:50	1
Pyrene	ND		67	30	ug/Kg		05/31/17 13:09	06/01/17 11:50	1
1,2,4,5-Tetrachlorobenzene	ND		330	24	ug/Kg		05/31/17 13:09	06/01/17 11:50	1
2,3,4,6-Tetrachlorophenol	ND		330	27	ug/Kg		05/31/17 13:09	06/01/17 11:50	1
2,4,5-Trichlorophenol	ND		330	32	ug/Kg		05/31/17 13:09	06/01/17 11:50	1
2,4,6-Trichlorophenol	ND		330	29	ug/Kg		05/31/17 13:09	06/01/17 11:50	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*78*		*34 - 100*	*05/31/17 13:09*	*06/01/17 11:50*	*1*
2-Fluorophenol (Surr)	*83*		*24 - 109*	*05/31/17 13:09*	*06/01/17 11:50*	*1*
Nitrobenzene-d5 (Surr)	*82*		*31 - 105*	*05/31/17 13:09*	*06/01/17 11:50*	*1*
Phenol-d5 (Surr)	*69*		*24 - 106*	*05/31/17 13:09*	*06/01/17 11:50*	*1*
Terphenyl-d14 (Surr)	*101*		*34 - 104*	*05/31/17 13:09*	*06/01/17 11:50*	*1*
2,4,6-Tribromophenol (Surr)	*79*		*21 - 114*	*05/31/17 13:09*	*06/01/17 11:50*	*1*

Lab Sample ID: LCS 180-212795/2-A
Matrix: Solid
Analysis Batch: 212904

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 212795

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	6670	5410		ug/Kg		81	40 - 100
Acenaphthylene	6670	5090		ug/Kg		76	44 - 100
Acetophenone	6670	5140		ug/Kg		77	33 - 100
Anthracene	6670	5310		ug/Kg		80	45 - 100
Atrazine	6670	5410		ug/Kg		81	17 - 123
Benzaldehyde	6670	564	J *	ug/Kg		8	10 - 107
Benzo[a]anthracene	6670	5720		ug/Kg		86	45 - 100
Benzo[a]pyrene	6670	5120		ug/Kg		77	43 - 102
Benzo[b]fluoranthene	6670	5340		ug/Kg		80	40 - 100
Benzo[g,h,i]perylene	6670	4320		ug/Kg		65	41 - 110
Benzo[k]fluoranthene	6670	4950		ug/Kg		74	41 - 100
1,1'-Biphenyl	6670	5050		ug/Kg		76	41 - 100
Bis(2-chloroethoxy)methane	6670	5210		ug/Kg		78	41 - 100
Bis(2-chloroethyl)ether	6670	5000		ug/Kg		75	39 - 100
Bis(2-ethylhexyl) phthalate	6670	6720		ug/Kg		101	46 - 107
4-Bromophenyl phenyl ether	6670	5840		ug/Kg		88	46 - 101
Butyl benzyl phthalate	6670	6160		ug/Kg		92	45 - 108
Caprolactam	6670	5670		ug/Kg		85	40 - 114
Carbazole	6670	4920		ug/Kg		74	42 - 103
4-Chloroaniline	6670	5160		ug/Kg		77	42 - 100
4-Chloro-3-methylphenol	6670	5220		ug/Kg		78	39 - 109
2-Chloronaphthalene	6670	5060		ug/Kg		76	42 - 100
2-Chlorophenol	6670	5230		ug/Kg		78	35 - 105
4-Chlorophenyl phenyl ether	6670	5670		ug/Kg		85	46 - 100
Chrysene	6670	4710		ug/Kg		71	45 - 100
Dibenz(a,h)anthracene	6670	4420		ug/Kg		66	42 - 110
Dibenzofuran	6670	5110		ug/Kg		77	44 - 100
3,3'-Dichlorobenzidine	6670	3930		ug/Kg		59	39 - 100
2,4-Dichlorophenol	6670	5610		ug/Kg		84	39 - 106
Diethyl phthalate	6670	5960		ug/Kg		89	46 - 102
2,4-Dimethylphenol	6670	5850		ug/Kg		88	36 - 107
Dimethyl phthalate	6670	5560		ug/Kg		83	47 - 102
Di-n-butyl phthalate	6670	5900		ug/Kg		89	46 - 107
4,6-Dinitro-2-methylphenol	13300	11700		ug/Kg		88	43 - 107
2,4-Dinitrophenol	13300	10500		ug/Kg		79	33 - 106
2,4-Dinitrotoluene	6670	5750		ug/Kg		86	46 - 112
2,6-Dinitrotoluene	6670	5510		ug/Kg		83	48 - 104
Di-n-octyl phthalate	6670	6230		ug/Kg		94	41 - 105
1,4-Dioxane	6670	7270		ug/Kg		109	13 - 122
Fluoranthene	6670	5690		ug/Kg		85	43 - 106
Fluorene	6670	5550		ug/Kg		83	42 - 100
Hexachlorobenzene	6670	5870		ug/Kg		88	46 - 100
Hexachlorobutadiene	6670	6250		ug/Kg		94	42 - 102
Hexachlorocyclopentadiene	6670	6320		ug/Kg		95	35 - 110
Hexachloroethane	6670	5030		ug/Kg		76	38 - 100
Indeno[1,2,3-cd]pyrene	6670	4590		ug/Kg		69	41 - 110
Isophorone	6670	5820		ug/Kg		87	40 - 104
2-Methylnaphthalene	6670	5350		ug/Kg		80	42 - 100
2-Methylphenol	6670	5480		ug/Kg		82	34 - 106
Methylphenol, 3 & 4	6670	5440		ug/Kg		82	35 - 106

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 180-212795/2-A
Matrix: Solid
Analysis Batch: 212904

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 212795

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Naphthalene	6670	5260		ug/Kg		79	40 - 100
2-Nitroaniline	6670	5900		ug/Kg		89	40 - 114
3-Nitroaniline	6670	5010		ug/Kg		75	43 - 109
4-Nitroaniline	6670	5320		ug/Kg		80	37 - 115
Nitrobenzene	6670	5650		ug/Kg		85	38 - 104
2-Nitrophenol	6670	5600		ug/Kg		84	43 - 109
4-Nitrophenol	13300	13700		ug/Kg		103	22 - 140
N-Nitrosodi-n-propylamine	6670	5490		ug/Kg		82	39 - 103
N-Nitrosodiphenylamine	6670	5310		ug/Kg		80	43 - 100
2,2'-oxybis[1-chloropropane]	6670	5110		ug/Kg		77	27 - 104
Pentachlorophenol	13300	12000		ug/Kg		90	26 - 115
Phenanthrene	6670	5530		ug/Kg		83	43 - 100
Phenol	6670	5310		ug/Kg		80	30 - 105
Pyrene	6670	5020		ug/Kg		75	42 - 100
1,2,4,5-Tetrachlorobenzene	6670	5910		ug/Kg		89	41 - 100
2,3,4,6-Tetrachlorophenol	6670	5830		ug/Kg		87	41 - 107
2,4,5-Trichlorophenol	6670	5400		ug/Kg		81	44 - 103
2,4,6-Trichlorophenol	6670	5530		ug/Kg		83	44 - 107

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*70*		*34 - 100*
2-Fluorophenol (Surr)	*79*		*24 - 109*
Nitrobenzene-d5 (Surr)	*77*		*31 - 105*
Phenol-d5 (Surr)	*69*		*24 - 106*
Terphenyl-d14 (Surr)	*69*		*34 - 104*
2,4,6-Tribromophenol (Surr)	*78*		*21 - 114*

Lab Sample ID: 180-66622-16 MS
Matrix: Solid
Analysis Batch: 212904

Client Sample ID: SSHS-B819-SUB-12-14
Prep Type: Total/NA
Prep Batch: 212795

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	ND	F2 F1	6940	8850	F1	ug/Kg	☼	128	40 - 100
Acenaphthylene	30	J F2 F1	6940	8170	F1	ug/Kg	☼	117	44 - 100
Acetophenone	ND	F2 F1	6940	7920	F1	ug/Kg	☼	114	33 - 100
Anthracene	200	F2 F1	6940	8920	F1	ug/Kg	☼	126	45 - 100
Atrazine	ND	F2	6940	8440		ug/Kg	☼	122	17 - 123
Benzaldehyde	ND	*	6940	1600		ug/Kg	☼	23	10 - 107
Benzo[a]anthracene	540	F2 F1	6940	9400	F1	ug/Kg	☼	128	45 - 100
Benzo[a]pyrene	430	F2 F1	6940	8460	F1	ug/Kg	☼	116	43 - 102
Benzo[b]fluoranthene	530	F2 F1	6940	9020	F1	ug/Kg	☼	122	40 - 100
Benzo[g,h,i]perylene	210	F2	6940	6830		ug/Kg	☼	95	41 - 110
Benzo[k]fluoranthene	240	F2 F1	6940	7760	F1	ug/Kg	☼	108	41 - 100
1,1'-Biphenyl	ND	F2 F1	6940	8220	F1	ug/Kg	☼	118	41 - 100
Bis(2-chloroethoxy)methane	ND	F2 F1	6940	7950	F1	ug/Kg	☼	115	41 - 100
Bis(2-chloroethyl)ether	ND	F2 F1	6940	7550	F1	ug/Kg	☼	109	39 - 100
Bis(2-ethylhexyl) phthalate	ND	F2 F1	6940	10400	F1	ug/Kg	☼	149	46 - 107
4-Bromophenyl phenyl ether	ND	F2 F1	6940	9280	F1	ug/Kg	☼	134	46 - 101

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 180-66622-16 MS
Matrix: Solid
Analysis Batch: 212904

Client Sample ID: SSHS-B819-SUB-12-14
Prep Type: Total/NA
Prep Batch: 212795

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Butyl benzyl phthalate	ND	F2 F1	6940	9230	F1	ug/Kg	☼	133	45 - 108
Caprolactam	ND	F2 F1	6940	6430		ug/Kg	☼	93	40 - 114
Carbazole	120	F2 F1	6940	7970	F1	ug/Kg	☼	113	42 - 103
4-Chloroaniline	ND	F2 F1	6940	7990	F1	ug/Kg	☼	115	42 - 100
4-Chloro-3-methylphenol	ND	F2 F1	6940	8930	F1	ug/Kg	☼	129	39 - 109
2-Chloronaphthalene	ND	F2 F1	6940	8170	F1	ug/Kg	☼	118	42 - 100
2-Chlorophenol	ND	F2 F1	6940	8000	F1	ug/Kg	☼	115	35 - 105
4-Chlorophenyl phenyl ether	ND	F2 F1	6940	8980	F1	ug/Kg	☼	129	46 - 100
Chrysene	440	F2 F1	6940	7540	F1	ug/Kg	☼	102	45 - 100
Dibenz(a,h)anthracene	59	J F2	6940	7260		ug/Kg	☼	104	42 - 110
Dibenzofuran	ND	F2 F1	6940	8140	F1	ug/Kg	☼	117	44 - 100
3,3'-Dichlorobenzidine	ND	F2	6940	5280		ug/Kg	☼	76	39 - 100
2,4-Dichlorophenol	ND	F2 F1	6940	8880	F1	ug/Kg	☼	128	39 - 106
Diethyl phthalate	ND	F2 F1	6940	9050	F1	ug/Kg	☼	130	46 - 102
2,4-Dimethylphenol	ND	F2 F1	6940	8510	F1	ug/Kg	☼	123	36 - 107
Dimethyl phthalate	ND	F2 F1	6940	8660	F1	ug/Kg	☼	125	47 - 102
Di-n-butyl phthalate	ND	F2 F1	6940	9250	F1	ug/Kg	☼	133	46 - 107
4,6-Dinitro-2-methylphenol	ND	F2 F1	13900	19700	F1	ug/Kg	☼	142	43 - 107
2,4-Dinitrophenol	ND	F2 F1	13900	16300	F1	ug/Kg	☼	117	33 - 106
2,4-Dinitrotoluene	ND	F2 F1	6940	8730	F1	ug/Kg	☼	126	46 - 112
2,6-Dinitrotoluene	ND	F2 F1	6940	8630	F1	ug/Kg	☼	124	48 - 104
Di-n-octyl phthalate	ND	F2 F1	6940	9700	F1	ug/Kg	☼	140	41 - 105
1,4-Dioxane	ND	F2 F1	6940	9180	F1	ug/Kg	☼	132	13 - 122
Fluoranthene	1300	F2 F1	6940	9920	F1	ug/Kg	☼	125	43 - 106
Fluorene	ND	F2 F1	6940	8900	F1	ug/Kg	☼	128	42 - 100
Hexachlorobenzene	ND	F2 F1	6940	9350	F1	ug/Kg	☼	135	46 - 100
Hexachlorobutadiene	ND	F2 F1	6940	9230	F1	ug/Kg	☼	133	42 - 102
Hexachlorocyclopentadiene	ND	F2 F1	6940	9320	F1	ug/Kg	☼	134	35 - 110
Hexachloroethane	ND	F2 F1	6940	7340	F1	ug/Kg	☼	106	38 - 100
Indeno[1,2,3-cd]pyrene	200	F2	6940	7370		ug/Kg	☼	103	41 - 110
Isophorone	ND	F2 F1	6940	9060	F1	ug/Kg	☼	130	40 - 104
2-Methylnaphthalene	ND	F2 F1	6940	8470	F1	ug/Kg	☼	122	42 - 100
2-Methylphenol	ND	F2 F1	6940	8310	F1	ug/Kg	☼	120	34 - 106
Methylphenol, 3 & 4	ND	F2 F1	6940	8420	F1	ug/Kg	☼	121	35 - 106
Naphthalene	30	J F2 F1	6940	8450	F1	ug/Kg	☼	121	40 - 100
2-Nitroaniline	ND	F2 F1	6940	9100	F1	ug/Kg	☼	131	40 - 114
3-Nitroaniline	ND	F2	6940	7300		ug/Kg	☼	105	43 - 109
4-Nitroaniline	ND	F2 F1	6940	8220	F1	ug/Kg	☼	118	37 - 115
Nitrobenzene	ND	F2 F1	6940	8670	F1	ug/Kg	☼	125	38 - 104
2-Nitrophenol	ND	F2 F1	6940	8650	F1	ug/Kg	☼	125	43 - 109
4-Nitrophenol	ND	F2 F1	13900	20400	F1	ug/Kg	☼	147	22 - 140
N-Nitrosodi-n-propylamine	ND	F2 F1	6940	8500	F1	ug/Kg	☼	123	39 - 103
N-Nitrosodiphenylamine	ND	F2 F1	6940	8830	F1	ug/Kg	☼	127	43 - 100
2,2'-oxybis[1-chloropropane]	ND	F2 F1	6940	7270	F1	ug/Kg	☼	105	27 - 104
Pentachlorophenol	ND	F2 F1	13900	18900	F1	ug/Kg	☼	136	26 - 115
Phenanthrene	820	F2 F1	6940	9720	F1	ug/Kg	☼	128	43 - 100
Phenol	ND	F2 F1	6940	8240	F1	ug/Kg	☼	119	30 - 105
Pyrene	940	F2 F1	6940	8750	F1	ug/Kg	☼	112	42 - 100

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 180-66622-16 MS
Matrix: Solid
Analysis Batch: 212904

Client Sample ID: SSHS-B819-SUB-12-14
Prep Type: Total/NA
Prep Batch: 212795

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4,5-Tetrachlorobenzene	ND	F2 F1	6940	9570	F1	ug/Kg	☼	138	41 - 100
2,3,4,6-Tetrachlorophenol	ND	F2 F1	6940	9040	F1	ug/Kg	☼	130	41 - 107
2,4,5-Trichlorophenol	ND	F2 F1	6940	8710	F1	ug/Kg	☼	125	44 - 103
2,4,6-Trichlorophenol	ND	F2 F1	6940	9100	F1	ug/Kg	☼	131	44 - 107

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl	*104*	*X*	*34 - 100*
2-Fluorophenol (Surr)	*108*		*24 - 109*
Nitrobenzene-d5 (Surr)	*109*	*X*	*31 - 105*
Phenol-d5 (Surr)	*100*		*24 - 106*
Terphenyl-d14 (Surr)	*97*		*34 - 104*
2,4,6-Tribromophenol (Surr)	*124*	*X*	*21 - 114*

Lab Sample ID: 180-66622-16 MSD
Matrix: Solid
Analysis Batch: 212904

Client Sample ID: SSHS-B819-SUB-12-14
Prep Type: Total/NA
Prep Batch: 212795

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	ND	F2 F1	6940	5690	F2	ug/Kg	☼	82	40 - 100	43	25
Acenaphthylene	30	J F2 F1	6940	5410	F2	ug/Kg	☼	77	44 - 100	41	23
Acetophenone	ND	F2 F1	6940	5370	F2	ug/Kg	☼	77	33 - 100	38	26
Anthracene	200	F2 F1	6940	6020	F2	ug/Kg	☼	84	45 - 100	39	26
Atrazine	ND	F2	6940	5900	F2	ug/Kg	☼	85	17 - 123	35	28
Benzaldehyde	ND	*	6940	1660		ug/Kg	☼	24	10 - 107	4	27
Benzo[a]anthracene	540	F2 F1	6940	6330	F2	ug/Kg	☼	83	45 - 100	39	20
Benzo[a]pyrene	430	F2 F1	6940	5630	F2	ug/Kg	☼	75	43 - 102	40	23
Benzo[b]fluoranthene	530	F2 F1	6940	6060	F2	ug/Kg	☼	80	40 - 100	39	24
Benzo[g,h,i]perylene	210	F2	6940	4830	F2	ug/Kg	☼	67	41 - 110	34	22
Benzo[k]fluoranthene	240	F2 F1	6940	5180	F2	ug/Kg	☼	71	41 - 100	40	20
1,1'-Biphenyl	ND	F2 F1	6940	5490	F2	ug/Kg	☼	79	41 - 100	40	26
Bis(2-chloroethoxy)methane	ND	F2 F1	6940	5440	F2	ug/Kg	☼	78	41 - 100	38	33
Bis(2-chloroethyl)ether	ND	F2 F1	6940	5140	F2	ug/Kg	☼	74	39 - 100	38	25
Bis(2-ethylhexyl) phthalate	ND	F2 F1	6940	7070	F2	ug/Kg	☼	102	46 - 107	38	20
4-Bromophenyl phenyl ether	ND	F2 F1	6940	6330	F2	ug/Kg	☼	91	46 - 101	38	27
Butyl benzyl phthalate	ND	F2 F1	6940	6510	F2	ug/Kg	☼	94	45 - 108	35	20
Caprolactam	ND	F2 F1	6940	454	J F1 F2	ug/Kg	☼	7	40 - 114	174	29
Carbazole	120	F2 F1	6940	5500	F2	ug/Kg	☼	77	42 - 103	37	25
4-Chloroaniline	ND	F2 F1	6940	5050	F2	ug/Kg	☼	73	42 - 100	45	30
4-Chloro-3-methylphenol	ND	F2 F1	6940	5760	F2	ug/Kg	☼	83	39 - 109	43	31
2-Chloronaphthalene	ND	F2 F1	6940	5510	F2	ug/Kg	☼	79	42 - 100	39	27
2-Chlorophenol	ND	F2 F1	6940	5430	F2	ug/Kg	☼	78	35 - 105	38	23
4-Chlorophenyl phenyl ether	ND	F2 F1	6940	5880	F2	ug/Kg	☼	85	46 - 100	42	24
Chrysene	440	F2 F1	6940	5160	F2	ug/Kg	☼	68	45 - 100	38	20
Dibenz(a,h)anthracene	59	J F2	6940	5020	F2	ug/Kg	☼	71	42 - 110	37	27
Dibenzofuran	ND	F2 F1	6940	5410	F2	ug/Kg	☼	78	44 - 100	40	24
3,3'-Dichlorobenzidine	ND	F2	6940	3220	F2	ug/Kg	☼	46	39 - 100	48	22
2,4-Dichlorophenol	ND	F2 F1	6940	5990	F2	ug/Kg	☼	86	39 - 106	39	28
Diethyl phthalate	ND	F2 F1	6940	6050	F2	ug/Kg	☼	87	46 - 102	40	24

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 180-66622-16 MSD
Matrix: Solid
Analysis Batch: 212904

Client Sample ID: SSHS-B819-SUB-12-14
Prep Type: Total/NA
Prep Batch: 212795

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,4-Dimethylphenol	ND	F2 F1	6940	5610	F2	ug/Kg	☼	81	36 - 107	41	29
Dimethyl phthalate	ND	F2 F1	6940	6000	F2	ug/Kg	☼	86	47 - 102	36	26
Di-n-butyl phthalate	ND	F2 F1	6940	6320	F2	ug/Kg	☼	91	46 - 107	38	25
4,6-Dinitro-2-methylphenol	ND	F2 F1	13900	13500	F2	ug/Kg	☼	97	43 - 107	37	20
2,4-Dinitrophenol	ND	F2 F1	13900	10900	F2	ug/Kg	☼	78	33 - 106	40	21
2,4-Dinitrotoluene	ND	F2 F1	6940	5970	F2	ug/Kg	☼	86	46 - 112	37	24
2,6-Dinitrotoluene	ND	F2 F1	6940	5960	F2	ug/Kg	☼	86	48 - 104	37	23
Di-n-octyl phthalate	ND	F2 F1	6940	6620	F2	ug/Kg	☼	95	41 - 105	38	25
1,4-Dioxane	ND	F2 F1	6940	6100	F2	ug/Kg	☼	88	13 - 122	40	20
Fluoranthene	1300	F2 F1	6940	6830	F2	ug/Kg	☼	80	43 - 106	37	26
Fluorene	ND	F2 F1	6940	5960	F2	ug/Kg	☼	86	42 - 100	40	26
Hexachlorobenzene	ND	F2 F1	6940	6440	F2	ug/Kg	☼	93	46 - 100	37	25
Hexachlorobutadiene	ND	F2 F1	6940	6350	F2	ug/Kg	☼	92	42 - 102	37	28
Hexachlorocyclopentadiene	ND	F2 F1	6940	6400	F2	ug/Kg	☼	92	35 - 110	37	30
Hexachloroethane	ND	F2 F1	6940	5230	F2	ug/Kg	☼	75	38 - 100	34	26
Indeno[1,2,3-cd]pyrene	200	F2	6940	5100	F2	ug/Kg	☼	71	41 - 110	36	25
Isophorone	ND	F2 F1	6940	6200	F2	ug/Kg	☼	89	40 - 104	37	30
2-Methylnaphthalene	ND	F2 F1	6940	5580	F2	ug/Kg	☼	80	42 - 100	41	29
2-Methylphenol	ND	F2 F1	6940	5550	F2	ug/Kg	☼	80	34 - 106	40	29
Methylphenol, 3 & 4	ND	F2 F1	6940	5460	F2	ug/Kg	☼	79	35 - 106	43	27
Naphthalene	30	J F2 F1	6940	5660	F2	ug/Kg	☼	81	40 - 100	40	27
2-Nitroaniline	ND	F2 F1	6940	6230	F2	ug/Kg	☼	90	40 - 114	38	27
3-Nitroaniline	ND	F2	6940	5000	F2	ug/Kg	☼	72	43 - 109	37	29
4-Nitroaniline	ND	F2 F1	6940	5190	F2	ug/Kg	☼	75	37 - 115	45	20
Nitrobenzene	ND	F2 F1	6940	5980	F2	ug/Kg	☼	86	38 - 104	37	26
2-Nitrophenol	ND	F2 F1	6940	6110	F2	ug/Kg	☼	88	43 - 109	34	29
4-Nitrophenol	ND	F2 F1	13900	13500	F2	ug/Kg	☼	97	22 - 140	41	24
N-Nitrosodi-n-propylamine	ND	F2 F1	6940	5780	F2	ug/Kg	☼	83	39 - 103	38	28
N-Nitrosodiphenylamine	ND	F2 F1	6940	6020	F2	ug/Kg	☼	87	43 - 100	38	25
2,2'-oxybis[1-chloropropane]	ND	F2 F1	6940	5110	F2	ug/Kg	☼	74	27 - 104	35	27
Pentachlorophenol	ND	F2 F1	13900	12200	F2	ug/Kg	☼	88	26 - 115	43	29
Phenanthrene	820	F2 F1	6940	6490	F2	ug/Kg	☼	82	43 - 100	40	22
Phenol	ND	F2 F1	6940	5300	F2	ug/Kg	☼	76	30 - 105	43	24
Pyrene	940	F2 F1	6940	6250	F2	ug/Kg	☼	76	42 - 100	33	20
1,2,4,5-Tetrachlorobenzene	ND	F2 F1	6940	6180	F2	ug/Kg	☼	89	41 - 100	43	29
2,3,4,6-Tetrachlorophenol	ND	F2 F1	6940	5960	F2	ug/Kg	☼	86	41 - 107	41	25
2,4,5-Trichlorophenol	ND	F2 F1	6940	5760	F2	ug/Kg	☼	83	44 - 103	41	27
2,4,6-Trichlorophenol	ND	F2 F1	6940	5920	F2	ug/Kg	☼	85	44 - 107	42	29

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl	*71*		*34 - 100*
2-Fluorophenol (Surr)	*73*		*24 - 109*
Nitrobenzene-d5 (Surr)	*78*		*31 - 105*
Phenol-d5 (Surr)	*68*		*24 - 106*
Terphenyl-d14 (Surr)	*70*		*34 - 104*
2,4,6-Tribromophenol (Surr)	*86*		*21 - 114*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 180-212726/1-A
Matrix: Solid
Analysis Batch: 212730

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 212726

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		17	8.8	ug/Kg		05/31/17 03:47	05/31/17 13:25	1
PCB-1221	ND		17	8.6	ug/Kg		05/31/17 03:47	05/31/17 13:25	1
PCB-1232	ND		17	6.6	ug/Kg		05/31/17 03:47	05/31/17 13:25	1
PCB-1242	ND		17	13	ug/Kg		05/31/17 03:47	05/31/17 13:25	1
PCB-1248	ND		17	8.0	ug/Kg		05/31/17 03:47	05/31/17 13:25	1
PCB-1254	ND		17	7.3	ug/Kg		05/31/17 03:47	05/31/17 13:25	1
PCB-1260	ND		17	11	ug/Kg		05/31/17 03:47	05/31/17 13:25	1
PCB-1262	ND		17	12	ug/Kg		05/31/17 03:47	05/31/17 13:25	1
PCB-1268	ND		17	5.1	ug/Kg		05/31/17 03:47	05/31/17 13:25	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*82*		*23 - 150*	*05/31/17 03:47*	*05/31/17 13:25*	*1*
DCB Decachlorobiphenyl (Surr)	*93*		*23 - 150*	*05/31/17 03:47*	*05/31/17 13:25*	*1*
Tetrachloro-m-xylene (Surr)	*86*		*27 - 138*	*05/31/17 03:47*	*05/31/17 13:25*	*1*
Tetrachloro-m-xylene (Surr)	*89*		*27 - 138*	*05/31/17 03:47*	*05/31/17 13:25*	*1*

Lab Sample ID: LCS 180-212726/2-A
Matrix: Solid
Analysis Batch: 212730

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 212726

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			1330	1090		ug/Kg		82	52 - 126		
PCB-1260			1330	1080		ug/Kg		81	50 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*81*		*23 - 150*
DCB Decachlorobiphenyl (Surr)	*92*		*23 - 150*
Tetrachloro-m-xylene (Surr)	*83*		*27 - 138*
Tetrachloro-m-xylene (Surr)	*87*		*27 - 138*

Lab Sample ID: 180-66622-16 MS
Matrix: Solid
Analysis Batch: 212730

Client Sample ID: SSHS-B819-SUB-12-14
Prep Type: Total/NA
Prep Batch: 212726

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016	ND		1370	893		ug/Kg	☼	65	52 - 126		
PCB-1260	ND		1370	927		ug/Kg	☼	68	50 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*66*		*23 - 150*
DCB Decachlorobiphenyl (Surr)	*76*		*23 - 150*
Tetrachloro-m-xylene (Surr)	*66*		*27 - 138*
Tetrachloro-m-xylene (Surr)	*69*		*27 - 138*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 180-66622-16 MSD
Matrix: Solid
Analysis Batch: 212730

Client Sample ID: SSHS-B819-SUB-12-14
Prep Type: Total/NA
Prep Batch: 212726

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	ND		1380	945		ug/Kg	☼	69	52 - 126	6	20
PCB-1260	ND		1380	987		ug/Kg	☼	72	50 - 130	6	21

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*74*		*23 - 150*
DCB Decachlorobiphenyl (Surr)	*84*		*23 - 150*
Tetrachloro-m-xylene (Surr)	*71*		*27 - 138*
Tetrachloro-m-xylene (Surr)	*72*		*27 - 138*

Lab Sample ID: MB 180-212799/1-A
Matrix: Solid
Analysis Batch: 212874

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 212799

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		17	8.8	ug/Kg		05/31/17 13:13	06/01/17 08:37	1
PCB-1221	ND		17	8.6	ug/Kg		05/31/17 13:13	06/01/17 08:37	1
PCB-1232	ND		17	6.6	ug/Kg		05/31/17 13:13	06/01/17 08:37	1
PCB-1242	ND		17	13	ug/Kg		05/31/17 13:13	06/01/17 08:37	1
PCB-1248	ND		17	8.0	ug/Kg		05/31/17 13:13	06/01/17 08:37	1
PCB-1254	ND		17	7.3	ug/Kg		05/31/17 13:13	06/01/17 08:37	1
PCB-1260	ND		17	11	ug/Kg		05/31/17 13:13	06/01/17 08:37	1
PCB-1262	ND		17	12	ug/Kg		05/31/17 13:13	06/01/17 08:37	1
PCB-1268	ND		17	5.1	ug/Kg		05/31/17 13:13	06/01/17 08:37	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*89*		*23 - 150*	*05/31/17 13:13*	*06/01/17 08:37*	*1*
DCB Decachlorobiphenyl (Surr)	*94*		*23 - 150*	*05/31/17 13:13*	*06/01/17 08:37*	*1*
Tetrachloro-m-xylene (Surr)	*83*		*27 - 138*	*05/31/17 13:13*	*06/01/17 08:37*	*1*
Tetrachloro-m-xylene (Surr)	*91*		*27 - 138*	*05/31/17 13:13*	*06/01/17 08:37*	*1*

Lab Sample ID: LCS 180-212799/2-A
Matrix: Solid
Analysis Batch: 212874

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 212799

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			1330	1180		ug/Kg		89	52 - 126		
PCB-1260			1330	1140		ug/Kg		86	50 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*83*		*23 - 150*
DCB Decachlorobiphenyl (Surr)	*96*		*23 - 150*
Tetrachloro-m-xylene (Surr)	*90*		*27 - 138*
Tetrachloro-m-xylene (Surr)	*88*		*27 - 138*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCSD 180-212799/3-A
Matrix: Solid
Analysis Batch: 212874

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 212799

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016			1330	1120		ug/Kg		84	52 - 126	5	20
PCB-1260			1330	1140		ug/Kg		86	50 - 130	0	21

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*79*		*23 - 150*
DCB Decachlorobiphenyl (Surr)	*85*		*23 - 150*
Tetrachloro-m-xylene (Surr)	*79*		*27 - 138*
Tetrachloro-m-xylene (Surr)	*85*		*27 - 138*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 180-215534/1-A
Matrix: Solid
Analysis Batch: 215722

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 215534

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		20	7.6	mg/Kg		06/27/17 12:53	06/28/17 14:19	1
Antimony	ND		1.0	0.35	mg/Kg		06/27/17 12:53	06/28/17 14:19	1
Arsenic	ND		1.0	0.44	mg/Kg		06/27/17 12:53	06/28/17 14:19	1
Barium	ND		20	5.4	mg/Kg		06/27/17 12:53	06/28/17 14:19	1
Beryllium	ND		0.40	0.10	mg/Kg		06/27/17 12:53	06/28/17 14:19	1
Cadmium	ND		0.50	0.11	mg/Kg		06/27/17 12:53	06/28/17 14:19	1
Calcium	ND		500	140	mg/Kg		06/27/17 12:53	06/28/17 14:19	1
Chromium	ND		0.50	0.13	mg/Kg		06/27/17 12:53	06/28/17 14:19	1
Cobalt	ND		5.0	1.1	mg/Kg		06/27/17 12:53	06/28/17 14:19	1
Copper	ND		2.5	0.77	mg/Kg		06/27/17 12:53	06/28/17 14:19	1
Iron	ND		10	5.5	mg/Kg		06/27/17 12:53	06/28/17 14:19	1
Lead	ND		1.0	0.33	mg/Kg		06/27/17 12:53	06/28/17 14:19	1
Magnesium	ND		500	130	mg/Kg		06/27/17 12:53	06/28/17 14:19	1
Manganese	ND		1.5	0.41	mg/Kg		06/27/17 12:53	06/28/17 14:19	1
Nickel	ND		4.0	0.90	mg/Kg		06/27/17 12:53	06/28/17 14:19	1
Potassium	ND		500	120	mg/Kg		06/27/17 12:53	06/28/17 14:19	1
Selenium	ND		1.0	0.40	mg/Kg		06/27/17 12:53	06/28/17 14:19	1
Silver	ND		0.50	0.17	mg/Kg		06/27/17 12:53	06/28/17 14:19	1
Sodium	ND		500	140	mg/Kg		06/27/17 12:53	06/28/17 14:19	1
Thallium	ND		2.0	0.50	mg/Kg		06/27/17 12:53	06/28/17 14:19	1
Vanadium	ND		5.0	1.6	mg/Kg		06/27/17 12:53	06/28/17 14:19	1
Zinc	ND		2.0	1.0	mg/Kg		06/27/17 12:53	06/28/17 14:19	1

Lab Sample ID: LCS 180-215534/2-A
Matrix: Solid
Analysis Batch: 215722

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 215534

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum			200	209		mg/Kg		105	80 - 120
Antimony			50.0	52.4		mg/Kg		105	80 - 120
Arsenic			50.0	51.8		mg/Kg		104	80 - 120
Barium			200	201		mg/Kg		101	80 - 120

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCS 180-215534/2-A
Matrix: Solid
Analysis Batch: 215722

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 215534

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Beryllium	5.00	5.19		mg/Kg		104	80 - 120
Cadmium	5.00	5.22		mg/Kg		104	80 - 120
Calcium	5000	5250		mg/Kg		105	80 - 120
Chromium	20.0	20.7		mg/Kg		104	80 - 120
Cobalt	50.0	52.5		mg/Kg		105	80 - 120
Copper	25.0	26.2		mg/Kg		105	80 - 120
Iron	100	106		mg/Kg		106	80 - 120
Lead	50.0	50.3		mg/Kg		101	80 - 120
Magnesium	5000	5140		mg/Kg		103	80 - 120
Manganese	50.0	52.0		mg/Kg		104	80 - 120
Nickel	50.0	51.7		mg/Kg		103	80 - 120
Potassium	5000	5140		mg/Kg		103	80 - 120
Selenium	50.0	51.6		mg/Kg		103	80 - 120
Silver	5.00	5.22		mg/Kg		104	80 - 120
Sodium	5000	5260		mg/Kg		105	80 - 120
Thallium	50.0	48.7		mg/Kg		97	80 - 120
Vanadium	50.0	50.6		mg/Kg		101	80 - 120
Zinc	50.0	51.2		mg/Kg		102	80 - 120

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 180-214615/1-A
Matrix: Solid
Analysis Batch: 214770

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 214615

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.033	0.0074	mg/Kg		06/20/17 07:31	06/20/17 09:55	1

Lab Sample ID: LCS 180-214615/2-A
Matrix: Solid
Analysis Batch: 214770

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 214615

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.417	0.426		mg/Kg		102	80 - 120

Method: 2540G - SM 2540G

Lab Sample ID: 180-66622-1 DU
Matrix: Solid
Analysis Batch: 212841

Client Sample ID: SSHS-B821-SUB-0-2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	9.1		8.5		%		7	20
Percent Solids	90.9		91.5		%		0.7	20

Method: 2540G - SM 2540G (Continued)

Lab Sample ID: 180-66622-11 DU
Matrix: Solid
Analysis Batch: 212841

Client Sample ID: SSHS-B819-SUB-4-6
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	9.4			9.0		%				4	20
Percent Solids	90.6			91.0		%				0.4	20

GC/MS Semi VOA

Prep Batch: 212678

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-66622-1	SSHS-B821-SUB-0-2	Total/NA	Solid	3541	
180-66622-2	SSHS-B821-SUB-2-4	Total/NA	Solid	3541	
180-66622-3	SSHS-B821-SUB-4-6	Total/NA	Solid	3541	
180-66622-4	SSHS-B821-SUB-6-8	Total/NA	Solid	3541	
180-66622-5	SSHS-B821-SUB-8-10	Total/NA	Solid	3541	
MB 180-212678/1-A	Method Blank	Total/NA	Solid	3541	
LCS 180-212678/2-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 212748

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-66622-1	SSHS-B821-SUB-0-2	Total/NA	Solid	8270D	212678
180-66622-2	SSHS-B821-SUB-2-4	Total/NA	Solid	8270D	212678
180-66622-3	SSHS-B821-SUB-4-6	Total/NA	Solid	8270D	212678
180-66622-4	SSHS-B821-SUB-6-8	Total/NA	Solid	8270D	212678
180-66622-5	SSHS-B821-SUB-8-10	Total/NA	Solid	8270D	212678
MB 180-212678/1-A	Method Blank	Total/NA	Solid	8270D	212678
LCS 180-212678/2-A	Lab Control Sample	Total/NA	Solid	8270D	212678

Prep Batch: 212795

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-66622-6	SSHS-B821-SUB-10-12	Total/NA	Solid	3541	
180-66622-7	SSHS-B821-SUB-12-14	Total/NA	Solid	3541	
180-66622-8	SSHS-B821-SUB-14-16	Total/NA	Solid	3541	
180-66622-9	SSHS-B819-SUB-0-2	Total/NA	Solid	3541	
180-66622-10	SSHS-B819-SUB-2-4	Total/NA	Solid	3541	
180-66622-11	SSHS-B819-SUB-4-6	Total/NA	Solid	3541	
180-66622-12	DW-FD-1	Total/NA	Solid	3541	
180-66622-13	SSHS-B819-SUB-6-8	Total/NA	Solid	3541	
180-66622-14	SSHS-B819-SUB-8-10	Total/NA	Solid	3541	
180-66622-15	SSHS-B819-SUB-10-12	Total/NA	Solid	3541	
180-66622-16	SSHS-B819-SUB-12-14	Total/NA	Solid	3541	
180-66622-17	SSHS-B819-SUB-14-16	Total/NA	Solid	3541	
180-66622-18	DW-FD-2	Total/NA	Solid	3541	
MB 180-212795/1-A	Method Blank	Total/NA	Solid	3541	
LCS 180-212795/2-A	Lab Control Sample	Total/NA	Solid	3541	
180-66622-16 MS	SSHS-B819-SUB-12-14	Total/NA	Solid	3541	
180-66622-16 MSD	SSHS-B819-SUB-12-14	Total/NA	Solid	3541	

Analysis Batch: 212904

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-66622-6	SSHS-B821-SUB-10-12	Total/NA	Solid	8270D	212795
180-66622-7	SSHS-B821-SUB-12-14	Total/NA	Solid	8270D	212795
180-66622-8	SSHS-B821-SUB-14-16	Total/NA	Solid	8270D	212795
180-66622-9	SSHS-B819-SUB-0-2	Total/NA	Solid	8270D	212795
180-66622-10	SSHS-B819-SUB-2-4	Total/NA	Solid	8270D	212795
180-66622-11	SSHS-B819-SUB-4-6	Total/NA	Solid	8270D	212795
180-66622-12	DW-FD-1	Total/NA	Solid	8270D	212795
180-66622-13	SSHS-B819-SUB-6-8	Total/NA	Solid	8270D	212795
180-66622-14	SSHS-B819-SUB-8-10	Total/NA	Solid	8270D	212795
180-66622-15	SSHS-B819-SUB-10-12	Total/NA	Solid	8270D	212795
180-66622-16	SSHS-B819-SUB-12-14	Total/NA	Solid	8270D	212795

GC/MS Semi VOA (Continued)

Analysis Batch: 212904 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-66622-17	SSHS-B819-SUB-14-16	Total/NA	Solid	8270D	212795
180-66622-18	DW-FD-2	Total/NA	Solid	8270D	212795
MB 180-212795/1-A	Method Blank	Total/NA	Solid	8270D	212795
LCS 180-212795/2-A	Lab Control Sample	Total/NA	Solid	8270D	212795
180-66622-16 MS	SSHS-B819-SUB-12-14	Total/NA	Solid	8270D	212795
180-66622-16 MSD	SSHS-B819-SUB-12-14	Total/NA	Solid	8270D	212795

GC Semi VOA

Prep Batch: 212726

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-66622-1	SSHS-B821-SUB-0-2	Total/NA	Solid	3541	
180-66622-2	SSHS-B821-SUB-2-4	Total/NA	Solid	3541	
180-66622-3	SSHS-B821-SUB-4-6	Total/NA	Solid	3541	
180-66622-4	SSHS-B821-SUB-6-8	Total/NA	Solid	3541	
180-66622-5	SSHS-B821-SUB-8-10	Total/NA	Solid	3541	
180-66622-6	SSHS-B821-SUB-10-12	Total/NA	Solid	3541	
180-66622-7	SSHS-B821-SUB-12-14	Total/NA	Solid	3541	
180-66622-8	SSHS-B821-SUB-14-16	Total/NA	Solid	3541	
180-66622-9	SSHS-B819-SUB-0-2	Total/NA	Solid	3541	
180-66622-10	SSHS-B819-SUB-2-4	Total/NA	Solid	3541	
180-66622-11	SSHS-B819-SUB-4-6	Total/NA	Solid	3541	
180-66622-12	DW-FD-1	Total/NA	Solid	3541	
180-66622-13	SSHS-B819-SUB-6-8	Total/NA	Solid	3541	
180-66622-14	SSHS-B819-SUB-8-10	Total/NA	Solid	3541	
180-66622-15	SSHS-B819-SUB-10-12	Total/NA	Solid	3541	
180-66622-16	SSHS-B819-SUB-12-14	Total/NA	Solid	3541	
180-66622-17	SSHS-B819-SUB-14-16	Total/NA	Solid	3541	
MB 180-212726/1-A	Method Blank	Total/NA	Solid	3541	
LCS 180-212726/2-A	Lab Control Sample	Total/NA	Solid	3541	
180-66622-16 MS	SSHS-B819-SUB-12-14	Total/NA	Solid	3541	
180-66622-16 MSD	SSHS-B819-SUB-12-14	Total/NA	Solid	3541	

Analysis Batch: 212730

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-66622-1	SSHS-B821-SUB-0-2	Total/NA	Solid	8082A	212774
180-66622-2	SSHS-B821-SUB-2-4	Total/NA	Solid	8082A	212774
180-66622-3	SSHS-B821-SUB-4-6	Total/NA	Solid	8082A	212774
180-66622-4	SSHS-B821-SUB-6-8	Total/NA	Solid	8082A	212774
180-66622-5	SSHS-B821-SUB-8-10	Total/NA	Solid	8082A	212774
180-66622-6	SSHS-B821-SUB-10-12	Total/NA	Solid	8082A	212774
180-66622-7	SSHS-B821-SUB-12-14	Total/NA	Solid	8082A	212774
180-66622-8	SSHS-B821-SUB-14-16	Total/NA	Solid	8082A	212774
180-66622-9	SSHS-B819-SUB-0-2	Total/NA	Solid	8082A	212774
180-66622-10	SSHS-B819-SUB-2-4	Total/NA	Solid	8082A	212774
180-66622-11	SSHS-B819-SUB-4-6	Total/NA	Solid	8082A	212774
180-66622-12	DW-FD-1	Total/NA	Solid	8082A	212774
180-66622-13	SSHS-B819-SUB-6-8	Total/NA	Solid	8082A	212774
180-66622-14	SSHS-B819-SUB-8-10	Total/NA	Solid	8082A	212774
180-66622-15	SSHS-B819-SUB-10-12	Total/NA	Solid	8082A	212774

GC Semi VOA (Continued)

Analysis Batch: 212730 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-66622-16	SSHS-B819-SUB-12-14	Total/NA	Solid	8082A	212774
180-66622-17	SSHS-B819-SUB-14-16	Total/NA	Solid	8082A	212774
MB 180-212726/1-A	Method Blank	Total/NA	Solid	8082A	212726
LCS 180-212726/2-A	Lab Control Sample	Total/NA	Solid	8082A	212726
180-66622-16 MS	SSHS-B819-SUB-12-14	Total/NA	Solid	8082A	212774
180-66622-16 MSD	SSHS-B819-SUB-12-14	Total/NA	Solid	8082A	212774

Cleanup Batch: 212773

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-66622-1	SSHS-B821-SUB-0-2	Total/NA	Solid	3665A	212726
180-66622-2	SSHS-B821-SUB-2-4	Total/NA	Solid	3665A	212726
180-66622-3	SSHS-B821-SUB-4-6	Total/NA	Solid	3665A	212726
180-66622-4	SSHS-B821-SUB-6-8	Total/NA	Solid	3665A	212726
180-66622-5	SSHS-B821-SUB-8-10	Total/NA	Solid	3665A	212726
180-66622-6	SSHS-B821-SUB-10-12	Total/NA	Solid	3665A	212726
180-66622-7	SSHS-B821-SUB-12-14	Total/NA	Solid	3665A	212726
180-66622-8	SSHS-B821-SUB-14-16	Total/NA	Solid	3665A	212726
180-66622-9	SSHS-B819-SUB-0-2	Total/NA	Solid	3665A	212726
180-66622-10	SSHS-B819-SUB-2-4	Total/NA	Solid	3665A	212726
180-66622-11	SSHS-B819-SUB-4-6	Total/NA	Solid	3665A	212726
180-66622-12	DW-FD-1	Total/NA	Solid	3665A	212726
180-66622-13	SSHS-B819-SUB-6-8	Total/NA	Solid	3665A	212726
180-66622-14	SSHS-B819-SUB-8-10	Total/NA	Solid	3665A	212726
180-66622-15	SSHS-B819-SUB-10-12	Total/NA	Solid	3665A	212726
180-66622-16	SSHS-B819-SUB-12-14	Total/NA	Solid	3665A	212726
180-66622-17	SSHS-B819-SUB-14-16	Total/NA	Solid	3665A	212726
180-66622-16 MS	SSHS-B819-SUB-12-14	Total/NA	Solid	3665A	212726
180-66622-16 MSD	SSHS-B819-SUB-12-14	Total/NA	Solid	3665A	212726

Cleanup Batch: 212774

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-66622-1	SSHS-B821-SUB-0-2	Total/NA	Solid	3660B	212773
180-66622-2	SSHS-B821-SUB-2-4	Total/NA	Solid	3660B	212773
180-66622-3	SSHS-B821-SUB-4-6	Total/NA	Solid	3660B	212773
180-66622-4	SSHS-B821-SUB-6-8	Total/NA	Solid	3660B	212773
180-66622-5	SSHS-B821-SUB-8-10	Total/NA	Solid	3660B	212773
180-66622-6	SSHS-B821-SUB-10-12	Total/NA	Solid	3660B	212773
180-66622-7	SSHS-B821-SUB-12-14	Total/NA	Solid	3660B	212773
180-66622-8	SSHS-B821-SUB-14-16	Total/NA	Solid	3660B	212773
180-66622-9	SSHS-B819-SUB-0-2	Total/NA	Solid	3660B	212773
180-66622-10	SSHS-B819-SUB-2-4	Total/NA	Solid	3660B	212773
180-66622-11	SSHS-B819-SUB-4-6	Total/NA	Solid	3660B	212773
180-66622-12	DW-FD-1	Total/NA	Solid	3660B	212773
180-66622-13	SSHS-B819-SUB-6-8	Total/NA	Solid	3660B	212773
180-66622-14	SSHS-B819-SUB-8-10	Total/NA	Solid	3660B	212773
180-66622-15	SSHS-B819-SUB-10-12	Total/NA	Solid	3660B	212773
180-66622-16	SSHS-B819-SUB-12-14	Total/NA	Solid	3660B	212773
180-66622-17	SSHS-B819-SUB-14-16	Total/NA	Solid	3660B	212773
180-66622-16 MS	SSHS-B819-SUB-12-14	Total/NA	Solid	3660B	212773
180-66622-16 MSD	SSHS-B819-SUB-12-14	Total/NA	Solid	3660B	212773

GC Semi VOA (Continued)

Prep Batch: 212799

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-66622-18	DW-FD-2	Total/NA	Solid	3541	
MB 180-212799/1-A	Method Blank	Total/NA	Solid	3541	
LCS 180-212799/2-A	Lab Control Sample	Total/NA	Solid	3541	
LCSD 180-212799/3-A	Lab Control Sample Dup	Total/NA	Solid	3541	

Analysis Batch: 212874

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-66622-18	DW-FD-2	Total/NA	Solid	8082A	212881
MB 180-212799/1-A	Method Blank	Total/NA	Solid	8082A	212799
LCS 180-212799/2-A	Lab Control Sample	Total/NA	Solid	8082A	212799
LCSD 180-212799/3-A	Lab Control Sample Dup	Total/NA	Solid	8082A	212799

Cleanup Batch: 212880

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-66622-18	DW-FD-2	Total/NA	Solid	3665A	212799

Cleanup Batch: 212881

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-66622-18	DW-FD-2	Total/NA	Solid	3660B	212880

Metals

Prep Batch: 214615

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-66622-1	SSHS-B821-SUB-0-2	Total/NA	Solid	7471B	
180-66622-9	SSHS-B819-SUB-0-2	Total/NA	Solid	7471B	
MB 180-214615/1-A	Method Blank	Total/NA	Solid	7471B	
LCS 180-214615/2-A	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 214770

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-66622-1	SSHS-B821-SUB-0-2	Total/NA	Solid	7471B	214615
180-66622-9	SSHS-B819-SUB-0-2	Total/NA	Solid	7471B	214615
MB 180-214615/1-A	Method Blank	Total/NA	Solid	7471B	214615
LCS 180-214615/2-A	Lab Control Sample	Total/NA	Solid	7471B	214615

Prep Batch: 215534

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-66622-1	SSHS-B821-SUB-0-2	Total/NA	Solid	3050B	
180-66622-9	SSHS-B819-SUB-0-2	Total/NA	Solid	3050B	
MB 180-215534/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 180-215534/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Analysis Batch: 215722

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-66622-1	SSHS-B821-SUB-0-2	Total/NA	Solid	6010C	215534
180-66622-9	SSHS-B819-SUB-0-2	Total/NA	Solid	6010C	215534
MB 180-215534/1-A	Method Blank	Total/NA	Solid	6010C	215534
LCS 180-215534/2-A	Lab Control Sample	Total/NA	Solid	6010C	215534

QC Association Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North

TestAmerica Job ID: 180-66622-2

General Chemistry

Analysis Batch: 212841

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-66622-1	SSHS-B821-SUB-0-2	Total/NA	Solid	2540G	
180-66622-2	SSHS-B821-SUB-2-4	Total/NA	Solid	2540G	
180-66622-3	SSHS-B821-SUB-4-6	Total/NA	Solid	2540G	
180-66622-4	SSHS-B821-SUB-6-8	Total/NA	Solid	2540G	
180-66622-5	SSHS-B821-SUB-8-10	Total/NA	Solid	2540G	
180-66622-6	SSHS-B821-SUB-10-12	Total/NA	Solid	2540G	
180-66622-7	SSHS-B821-SUB-12-14	Total/NA	Solid	2540G	
180-66622-8	SSHS-B821-SUB-14-16	Total/NA	Solid	2540G	
180-66622-9	SSHS-B819-SUB-0-2	Total/NA	Solid	2540G	
180-66622-10	SSHS-B819-SUB-2-4	Total/NA	Solid	2540G	
180-66622-11	SSHS-B819-SUB-4-6	Total/NA	Solid	2540G	
180-66622-12	DW-FD-1	Total/NA	Solid	2540G	
180-66622-13	SSHS-B819-SUB-6-8	Total/NA	Solid	2540G	
180-66622-14	SSHS-B819-SUB-8-10	Total/NA	Solid	2540G	
180-66622-15	SSHS-B819-SUB-10-12	Total/NA	Solid	2540G	
180-66622-16	SSHS-B819-SUB-12-14	Total/NA	Solid	2540G	
180-66622-17	SSHS-B819-SUB-14-16	Total/NA	Solid	2540G	
180-66622-18	DW-FD-2	Total/NA	Solid	2540G	
180-66622-1 DU	SSHS-B821-SUB-0-2	Total/NA	Solid	2540G	
180-66622-11 DU	SSHS-B819-SUB-4-6	Total/NA	Solid	2540G	

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301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
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Chain of Cust

180-66622 Chain of Custody

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA

Client Contact	Project Manager: Aron Krasnopoler	Site Contact: Jay Thompson	Date: 5/23/17	COC No:
Geosyntec Consultants	Tel/Fax: 401-381-4333	Lab Contact: Dave Dunlap	Carrier: FedEx	1 of 4 COCs
10211 Wincopin Circle, 4th Floor	Analysis Turnaround Time			Sampler: TF
Columbia, MD 21044	☐ CALENDAR DAYS ☑ WORKING DAYS			For Lab Use Only:
410-381-4333 Phone	TAT if different from Below			Walk-In Client:
410-381-4499 FAX	☐ 2 weeks ☐ 1 week ☐ 2 days ☑ 1 day DW 5/24/17			Lab Sampling:
Project Name: Former Sperry Remington Site - North				Job / SDG No.:
Site: Elmira				
P O # MN0832B				

J. Thompson on 5/25/17 ID B818 to be changed to B814 as per

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	PCBs - 8082A	SVOCs - 8270D	Metals - 6010C	Metals - 7471B
SSHS-B818-SUB-0-2	5/23/17	0720	C	S	2	N	N	X	X	X	X
SSHS-B818-SUB-2-4		0720	C	S	2			X	X	X	X
SSHS-B818-SUB-4-6		0725	C	S	2			X	X	X	X
SSHS-B818-SUB-6-8		0725	C	S	2			X	X	X	X
SSHS-B818-SUB-8-10		0730	C	S	2			X	X	X	X
SSHS-B818-SUB-10-12		0730	C	S	2			X	X	X	X
SSHS-B818-SUB-12-14		0735	C	S	2			X	X	X	X
SSHS-B818-SUB-14-16		0735	C	S	2			X	X	X	X
SSHS-B819-SUB-0-2		0745	C	S	2			X	X	X	X
SSHS-B819-SUB-2-4		0745	C	S	2			X	X	X	X
SSHS-B814-SUB-4-6 per 5/23/17		0750	C	S	2			X	X	X	X
FS-DW-FD-1		X	C	S	2			X	X	X	X

RUSH

Sample Specific Notes:
Hold for Metals / Hg

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments: Run for SVOCs & PCBs, Hold for Metals / Hg

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd:	Corr'd:	Therm ID No.:
Relinquished by: Jay Thompson	Company: Geosyntec	Date/Time: 5/23/17	Received by: Fedex Ag	Company: TAP	Date/Time: 5/24/17 9:1
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Form No. CA-C-WI-002, Rev. 4.3, dated 12/05/2013

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Chain of Cust

180-66622 Chain of Custody

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA

Client Contact	Project Manager: Aron Krasnopoler	Site Contact: Jay Thompson	Date: 5/23/17	COC No:
Geosyntec Consultants	Tel/Fax: 401-381-4333	Lab Contact: Dave Dunlap	Carrier: FedEx	1 of 4 COCs
10211 Wincopin Circle, 4th Floor	Analysis Turnaround Time			Sampler: TH
Columbia, MD 21044	☐ CALENDAR DAYS ☑ WORKING DAYS			For Lab Use Only:
410-381-4333 Phone	TAT if different from Below			Walk-in Client:
410-381-4499 FAX	☐ 2 weeks			Lab Sampling:
Project Name: Former Sperry Remington Site - North	☐ 1 week			Job / SDG No.:
Site: Elmira	☐ 2 days			
P O # MN0832B	☑ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	PCBs - 8082A	SVOCs - 8270D	Metals: 6010C	Mercury - 7471B	Sample Specific Notes:
SSHS-B8/8-SUB-0-2	5/23/17	0720	C	S	2	N	N	X	X	X	X	HOLD for Metals / Hg
SSHS-B8/8-SUB-2-4		0720	C	S	2			X	X	X	X	
SSHS-B8/8-SUB-4-6		0725	C	S	2			X	X	X	X	
SSHS-B8/8-SUB-6-8		0725	C	S	2			X	X	X	X	
SSHS-B8/8-SUB-8-10		0730	C	S	2			X	X	X	X	
SSHS-B8/8-SUB-10-12		0730	C	S	2			X	X	X	X	
SSHS-B8/8-SUB-12-14		0735	C	S	2			X	X	X	X	
SSHS-B8/8-SUB-14-16		0735	C	S	2			X	X	X	X	
SSHS-B8/9-SUB-0-2		0745	C	S	2			X	X	X	X	
SSHS-B8/9-SUB-2-4		0745	C	S	2			X	X	X	X	
SSHS-B8/9-SUB-4-6		0750	C	S	2			X	X	X	X	
FS-DW-FD-1		X	C	S	2			X	X	X	X	

RUSH

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments: Run for SVOCs & PCBs, Hold for Metals / Hg

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd: _____ Corr'd: _____		Therm ID No.: _____
Relinquished by: Jay Thompson	Company: Geosyntec	Date/Time: 5/23/17 1630	Received by: Thermo Dog	Company: TAP	Date/Time: 5/24/17 915
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Form No. CA-C-WI-002, Rev. 4.3, dated 12/05/2013

TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
phone 412.963.7058 fax 412.963.2468

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☑ Other:

Client Contact	Project Manager: Aron Krasnopoler	Site Contact: Jay Thompson	Date: 5/23/17	COC No: 2 of 4 COCs
Geosyntec Consultants	Tel/Fax: 401-381-4333	Lab Contact: Dave Dunlap	Carrier: FedEx	Sampler: JT
10211 Wincopin Circle, 4th Floor	Analysis Turnaround Time			For Lab Use Only:
Columbia, MD 21044	☐ CALENDAR DAYS ☑ WORKING DAYS			Walk-in Client:
410-381-4333 Phone	TAT if different from Below _____			Lab Sampling:
410-381-4499 FAX	☐ 2 weeks			
Project Name: Former Sperry Remington Site - North	☐ 1 week			Job / SDG No.:
Site: Elmira	☐ 2 days			
P O # MN0832B	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	PCBs -8082A	SVOCs - 8270D	Metals - 6010C	Hg - 7471B	Sample Specific Notes:
SSHS-B819-SB-6-8	5/23/17	0750	C	S	2	N	N	X	X	X	X	Hold for metals/Hg
SSHS-B819-SB-8-10		0755	C	S	2			X	X	X	X	
SSHS-B819-SB-10-12		0755	C	S	2			X	X	X	X	
SSHS-B819-SB-12-14		0800	C	S	4	N	N	X	X	X	X	DO MS/MSD-1 Hold for metals/Hg
SSHS-B819-SB-14-16		0800	C	S	2	N	N	X	X	X	X	Hold for Metals/Hg
DW-~~B819~~ FD-2 ~~5/23/17~~ 5/22/17		X	C	S	2			X	X	X	X	
SSHS-B763-SB-2-4		0840	C	S	2			X				
SSHS-B763-SB-2-4		0845	C	S	2			X				
SSHS-B781-SB-2-4		0850	C	S	2			X				
SSHS-B760-SB-2-4		0855	C	S	2			X				
SSHS-B754-SB-2-4		0900	C	S	2			X				
SSHS-B755-SB-2-4		0905	C	S	2			X				

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____ 1

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd: _____ Corr'd: _____ | Therm ID No.: _____

	Company	Date/Time		Company	Date/Time
Relinquished by: Jay Thompson	Geosyntec	5/23/17 1820	Received by: J Thomas	TAP	5/24/17 915
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Form No. CA-C-WI-002, Rev. 4.3, dated 12/05/2013

TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
phone 412.963.7058 fax 412.963.2468

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☑ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Aron Krasnopoler	Site Contact: Jay Thompson	Date: 5/23/17	COC No:
Geosyntec Consultants	Tel/Fax: 401-381-4333	Lab Contact: Dave Dunlap	Carrier: FedEx	3 of 4 COCs
10211 Wincopin Circle, 4th Floor	Analysis Turnaround Time			Sampler: JT
Columbia, MD 21044	☐ CALENDAR DAYS ☑ WORKING DAYS			For Lab Use Only:
410-381-4333 Phone	TAT if different from Below _____			Walk-in Client:
410-381-4499 FAX	☐ 2 weeks			Lab Sampling:
Project Name: Former Sperry Remington Site - North	☐ 1 week			
Site: Elmira	☐ 2 days			Job / SDG No.:
P O # MN0832B	☑ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	PCBs -8082A	Sample Specific Notes:
SSHS-B776-SUB-2-4	5/23/17	0905	C	S	2	N	N	X	
SSHS-B776-SUB-0-2		0910	C	S	2			X	HOLD
SSHS-B776-SUB-2-4		0912	C	S	2			X	HOLD
SSHS-B777-SUB-0-2		0915	C	S	2			X	HOLD
SSHS-B777-SUB-2-4		0915	C	S	2			X	HOLD
SSHS-B791-SUB-6-8		1315	C	S	2			X	
SSHS-B791-SUB-8-10		1315	C	S	2			X	HOLD
SSHS-B820-SUB-4-6		1325	C	S	2			X	
SSHS-B820-SUB-6-8		1325	C	S	2			X	
SSHS-B820-SUB-8-10		1330	C	S	2	N	N	X	HOLD
PS-FD-15		X	C	S	2	N	N	X	
PS-FD-16		X	C	S	2	N	N	X	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

1

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for_____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd:_____ Corr'd:_____ | Therm ID No.:_____

	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by: Jay Thompson	Geosyntec	5/23/17 1830			
Relinquished by:	Company:	Date/Time:	Received by:	Company: TAP	Date/Time: 5/24/17 915
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Form No. CA-C-WI-002, Rev. 4.3, dated 12/05/2013

TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
phone 412.963.7058 fax 412.963.2468

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☑ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Aron Krasnopoler	Site Contact: Jay Thompson	Date: 5/23/17	COC No:
Geosyntec Consultants	Tel/Fax: 401-381-4333	Lab Contact: Dave Dunlap	Carrier: FedEx	4 of 4 COCs
10211 Wincopin Circle, 4th Floor	**Analysis Turnaround Time**			Sampler: JT
Columbia, MD 21044	☐ CALENDAR DAYS ☑ WORKING DAYS			**For Lab Use Only:**
410-381-4333 Phone	TAT if different from Below _____			Walk-in Client:
410-381-4499 FAX	☐ 2 weeks			Lab Sampling:
Project Name: Former Sperry Remington Site - North	☐ 1 week			
Site: Elmira	☐ 2 days			Job / SDG No.:
P O # MN0832B	☑ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	PCBs -8082A	Sample Specific Notes:
BS-FD-17	5/23/17	X	C	S	2	N	N	X	

5/23/17 JT

Preservation Used: 1= Ice, 2= HCl; 3= H_2SO_4; 4=HNO_3; 5=NaOH; 6= Other _____ 1

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd: _____ Corr'd: _____		Therm ID No.: _____
Relinquished by: Jay Thompson	Company: Geosyntec	Date/Time: 5/23/17 (83)	Received by:	Company: TAP	Date/Time: 5/24/17 915
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Form No. CA-C-WI-002, Rev. 4.3, dated 12/05/2013

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 180-66622-2

Login Number: 66622
List Number: 1
Creator: Say, Thomas C

List Source: TestAmerica Pittsburgh

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

TestAmerica Job ID: 180-68037-1
Client Project/Site: Former Sperry Remington Site - North IRM
Revision: 1

For:
Geosyntec Consultants, Inc.
10211 Wincopin Circle
4'th Floor
Columbia, Maryland 21044

Attn: Mr. Aron Krasnopoler

Authorized for release by:
7/27/2017 9:22:07 AM

David Dunlap, Senior Project Manager
(412)963-2432
david.dunlap@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Job ID: 180-68037-1

Laboratory: TestAmerica Pittsburgh

Narrative

Job Narrative
180-68037-1

Comments
This is a revised report. At the request of the client, 2,4-dinitrotoluene, hexachlorobutadiene, hexachloroethane, nitrobenzene, pyridine, 2,4,5-trichlorophenol, and 2,4,6-trichlorophenol are now reported in the semivolatiles analysis.

Receipt
The samples were received on 7/11/2017 8:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 1.9º C, 2.0º C and 2.3º C.

GC/MS VOA
Method(s) 8260C: The continuing calibration verification (CCV) analyzed in 180-216640 was outside the method criteria for the following analyte(s): Vinyl Chloride recovered high. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method(s) 8270D LL: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 180-216675 and analytical batch 180-216666 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) 8270D LL: The following samples was diluted due to the nature of the sample matrix (extract viscous, dark in color): DUP2 (180-68037-1), WINDROW1, SEC 3, C (180-68037-2), WINDROW1, SEC 4, C (180-68037-4), WINDROW1, SEC 2, C (180-68037-8), WINDROW1, SEC 1, C (180-68037-11), (180-68037-A-1-B MS) and (180-68037-A-1-C MSD). This was the lowest dilution possible on these samples. Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals
Method(s) 6010C: The post digestion spike % recovery for manganese associated with prep batch 216814 was outside of the control limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

.

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

General Chemistry

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

TestAmerica Job ID: 180-68039-1
Client Project/Site: Former Sperry Remington Site - North

For:
Geosyntec Consultants, Inc.
10211 Wincopin Circle
4'th Floor
Columbia, Maryland 21044

Attn: Mr. Aron Krasnopoler

Authorized for release by:
7/12/2017 1:54:53 PM

David Dunlap, Senior Project Manager
(412)963-2432
david.dunlap@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North

TestAmerica Job ID: 180-68039-1

Job ID: 180-68039-1

Laboratory: TestAmerica Pittsburgh

Narrative

Job Narrative
180-68039-1

Receipt
The samples were received on 7/11/2017 8:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 1.9º C, 2.0º C and 2.3º C.

Samples NORTH EXCAVATION BOTTOM S2 and NORTH EXCAVATION BOTTOM S3 were cancelled by the client on 7/11/17. Only sample NORTH EXCAVATION SIDEWALL S1 was to be analyzed.

GC Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Definitions/Glossary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North

TestAmerica Job ID: 180-68039-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc. TestAmerica Job ID: 180-68039-1
Project/Site: Former Sperry Remington Site - North

Laboratory: TestAmerica Pittsburgh

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	11182	03-31-18

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
2540G		Solid	Percent Moisture
2540G		Solid	Percent Solids

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North

TestAmerica Job ID: 180-68039-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-68039-1	NORTH EXCAVATION SIDEWALL S1	Solid	07/10/17 16:00	07/11/17 08:30

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North

TestAmerica Job ID: 180-68039-1

Method	Method Description	Protocol	Laboratory
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL PIT
2540G	SM 2540G	SM22	TAL PIT

Protocol References:

SM22 = SM22

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North

TestAmerica Job ID: 180-68039-1

Client Sample ID: NORTH EXCAVATION SIDEWALL S1

Lab Sample ID: 180-68039-1
Matrix: Solid
Date Collected: 07/10/17 16:00
Date Received: 07/11/17 08:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216696	07/11/17 11:45	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: NORTH EXCAVATION SIDEWALL S1

Lab Sample ID: 180-68039-1
Matrix: Solid
Date Collected: 07/10/17 16:00
Date Received: 07/11/17 08:30
Percent Solids: 94.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.2 g	20.0 mL	216674	07/11/17 09:57	MAL	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	216716	07/11/17 14:25	CMR	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	216717	07/11/17 14:27	CMR	TAL PIT
Total/NA	Analysis	8082A		1			216665	07/11/17 22:40	JMO	TAL PIT
	Instrument ID: CHGC8									

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Analyst References:

Lab: TAL PIT

Batch Type: Cleanup

CMR = Carl Reagle

Batch Type: Prep

MAL = Michael Lonzo

Batch Type: Analysis

JMO = John Oravec

JTL = Justin Landry

Client Sample ID: NORTH EXCAVATION SIDEWALL S1
Date Collected: 07/10/17 16:00
Date Received: 07/11/17 08:30

Lab Sample ID: 180-68039-1
Matrix: Solid
Percent Solids: 94.3

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		17	9.3	ug/Kg	☼	07/11/17 09:57	07/11/17 22:40	1
PCB-1221	ND		17	9.0	ug/Kg	☼	07/11/17 09:57	07/11/17 22:40	1
PCB-1232	ND		17	6.9	ug/Kg	☼	07/11/17 09:57	07/11/17 22:40	1
PCB-1242	ND		17	14	ug/Kg	☼	07/11/17 09:57	07/11/17 22:40	1
PCB-1248	**3800**		17	8.3	ug/Kg	☼	07/11/17 09:57	07/11/17 22:40	1
PCB-1254	**1900**		17	7.7	ug/Kg	☼	07/11/17 09:57	07/11/17 22:40	1
PCB-1260	**540**		17	12	ug/Kg	☼	07/11/17 09:57	07/11/17 22:40	1
PCB-1262	ND		17	13	ug/Kg	☼	07/11/17 09:57	07/11/17 22:40	1
PCB-1268	ND		17	5.3	ug/Kg	☼	07/11/17 09:57	07/11/17 22:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*59*		*23 - 150*	*07/11/17 09:57*	*07/11/17 22:40*	*1*
DCB Decachlorobiphenyl (Surr)	*66*		*23 - 150*	*07/11/17 09:57*	*07/11/17 22:40*	*1*
Tetrachloro-m-xylene (Surr)	*64*		*27 - 138*	*07/11/17 09:57*	*07/11/17 22:40*	*1*
Tetrachloro-m-xylene (Surr)	*59*		*27 - 138*	*07/11/17 09:57*	*07/11/17 22:40*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**5.7**		0.1	0.1	%			07/11/17 11:45	1
Percent Solids	**94.3**		0.1	0.1	%			07/11/17 11:45	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 180-216674/1-C
Matrix: Solid
Analysis Batch: 216665

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 216674

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		17	8.8	ug/Kg		07/11/17 09:57	07/11/17 17:38	1
PCB-1221	ND		17	8.6	ug/Kg		07/11/17 09:57	07/11/17 17:38	1
PCB-1232	ND		17	6.6	ug/Kg		07/11/17 09:57	07/11/17 17:38	1
PCB-1242	ND		17	13	ug/Kg		07/11/17 09:57	07/11/17 17:38	1
PCB-1248	ND		17	8.0	ug/Kg		07/11/17 09:57	07/11/17 17:38	1
PCB-1254	ND		17	7.3	ug/Kg		07/11/17 09:57	07/11/17 17:38	1
PCB-1260	ND		17	11	ug/Kg		07/11/17 09:57	07/11/17 17:38	1
PCB-1262	ND		17	12	ug/Kg		07/11/17 09:57	07/11/17 17:38	1
PCB-1268	ND		17	5.1	ug/Kg		07/11/17 09:57	07/11/17 17:38	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*68*		*23 - 150*	*07/11/17 09:57*	*07/11/17 17:38*	*1*
DCB Decachlorobiphenyl (Surr)	*72*		*23 - 150*	*07/11/17 09:57*	*07/11/17 17:38*	*1*
Tetrachloro-m-xylene (Surr)	*80*		*27 - 138*	*07/11/17 09:57*	*07/11/17 17:38*	*1*
Tetrachloro-m-xylene (Surr)	*76*		*27 - 138*	*07/11/17 09:57*	*07/11/17 17:38*	*1*

Lab Sample ID: LCS 180-216674/2-C
Matrix: Solid
Analysis Batch: 216665

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 216674

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			1330	1020		ug/Kg		77	52 - 126		
PCB-1260			1330	1090		ug/Kg		82	50 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*71*		*23 - 150*
DCB Decachlorobiphenyl (Surr)	*76*		*23 - 150*
Tetrachloro-m-xylene (Surr)	*82*		*27 - 138*
Tetrachloro-m-xylene (Surr)	*76*		*27 - 138*

QC Association Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North

TestAmerica Job ID: 180-68039-1

GC Semi VOA

Analysis Batch: 216665

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68039-1	NORTH EXCAVATION SIDEWALL S1	Total/NA	Solid	8082A	216717
MB 180-216674/1-C	Method Blank	Total/NA	Solid	8082A	216717
LCS 180-216674/2-C	Lab Control Sample	Total/NA	Solid	8082A	216717

Prep Batch: 216674

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68039-1	NORTH EXCAVATION SIDEWALL S1	Total/NA	Solid	3541	
MB 180-216674/1-C	Method Blank	Total/NA	Solid	3541	
LCS 180-216674/2-C	Lab Control Sample	Total/NA	Solid	3541	

Cleanup Batch: 216716

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68039-1	NORTH EXCAVATION SIDEWALL S1	Total/NA	Solid	3665A	216674
MB 180-216674/1-C	Method Blank	Total/NA	Solid	3665A	216674
LCS 180-216674/2-C	Lab Control Sample	Total/NA	Solid	3665A	216674

Cleanup Batch: 216717

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68039-1	NORTH EXCAVATION SIDEWALL S1	Total/NA	Solid	3660B	216716
MB 180-216674/1-C	Method Blank	Total/NA	Solid	3660B	216716
LCS 180-216674/2-C	Lab Control Sample	Total/NA	Solid	3660B	216716

General Chemistry

Analysis Batch: 216696

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68039-1	NORTH EXCAVATION SIDEWALL S1	Total/NA	Solid	2540G	

TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
phone 412.963.7058 fax 412.963.2468

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☑ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Aron Krasnopoler	Site Contact: Jay Thompson	Date: 7/10/17	COC No:
Geosyntec Consultants	Tel/Fax: 401-381-4333	Lab Contact: Dave Dunlap	Carrier: FedEx	1 of 1 COCs
10211 Wincopin Circle, 4th Floor	Analysis Turnaround Time			Sampler:
Columbia, MD 21044	☐ CALENDAR DAYS ☑ WORKING DAYS			For Lab Use Only:
410-381-4333 Phone	TAT if different from Below ____			k-in Client:
410-381-4499 FAX	☐ 2 weeks			Sampling:
Project Name: Former Sperry Remington Site - North	☐ 1 week			
Site: Elmira	☐ 2 days			/ SDG No.:
P O # MN0832B	☑ 1 day			

180-66039 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	PCBs - 8082A	VOCs - 8260C	TCLP - Lead	Sample Specific Notes:
North Excavation Sidewall 51	7/10/17	1600	C	S	2	N	N	X			HOLD
North Excavation Bottom 52	↓	1610	C	S	2	N	N	X			HOLD
North Excavation Bottom 53	↓	1615	C	S	2	N	N	X			HOLD

JT 7/11/17

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments: HOLD all Samples

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temp. (°C): Obs'd: ____ Corr'd: ____	Therm ID No.: ____

Relinquished by: Jay Thompson	Company: GEOSYNTEC	Date/Time: 7/10/17 1900	Received by:	Company: TAPA	Date/Time: 7/11/17 0830
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Form No. CA-C-WI-002, Rev. 4.3, dated 12/05/2013

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 180-68039-1

Login Number: 68039
List Number: 1
Creator: Dunlap, David A

List Source: TestAmerica Pittsburgh

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

TestAmerica Job ID: 180-68095-1
Client Project/Site: Former Sperry Remington Site - North

For:
Geosyntec Consultants, Inc.
10211 Wincopin Circle
4'th Floor
Columbia, Maryland 21044

Attn: Mr. Aron Krasnopoler

Authorized for release by:
7/13/2017 2:57:50 PM

David Dunlap, Senior Project Manager
(412)963-2432
david.dunlap@testamericainc.com

Links

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North

TestAmerica Job ID: 180-68095-1

Job ID: 180-68095-1

Laboratory: TestAmerica Pittsburgh

Narrative

Job Narrative
180-68095-1

Comments
This report contains the PCB results. Each analysis will be reported separately

Receipt
The samples were received on 7/12/2017 8:20 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 4.4º C and 5.4º C.

GC Semi VOA
Method(s) 8082A: The internal standard, PCB-205, was above criteria on column RTX-CLP2 for sample SSHS-B803A-SUB-8-10 (180-68095-14). The results were reported from column RTX-CLP1, which had the internal standard within criteria.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Definitions/Glossary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North

TestAmerica Job ID: 180-68095-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
*	ISTD response or retention time outside acceptable limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc. TestAmerica Job ID: 180-68095-1
Project/Site: Former Sperry Remington Site - North

Laboratory: TestAmerica Pittsburgh

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	11182	03-31-18

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
2540G		Solid	Percent Moisture
2540G		Solid	Percent Solids

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North

TestAmerica Job ID: 180-68095-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-68095-1	SSHS-B625A-SUB-10-12	Solid	07/11/17 08:34	07/12/17 08:20
180-68095-7	SSHS-B329A-SUB-10-12	Solid	07/11/17 10:55	07/12/17 08:20
180-68095-8	SSHS-B632A-SUB-4-6	Solid	07/11/17 11:10	07/12/17 08:20
180-68095-9	SSHS-B632A-SUB-6-8	Solid	07/11/17 11:10	07/12/17 08:20
180-68095-10	SSHS-B632A-SUB-12-14	Solid	07/11/17 11:32	07/12/17 08:20
180-68095-11	SSHS-B632A-SUB-8-10	Solid	07/11/17 11:41	07/12/17 08:20
180-68095-12	PS-FD-2	Solid	07/11/17 00:00	07/12/17 08:20
180-68095-13	SSHS-B632A-SUB-10-12	Solid	07/11/17 11:41	07/12/17 08:20
180-68095-14	SSHS-B803A-SUB-8-10	Solid	07/11/17 12:15	07/12/17 08:20
180-68095-15	SSHS-B803A-SUB-10-12	Solid	07/11/17 12:15	07/12/17 08:20
180-68095-16	SSHS-B804A-SUB-4-6	Solid	07/11/17 13:25	07/12/17 08:20
180-68095-23	PS-FD-3	Solid	07/11/17 00:00	07/12/17 08:20
180-68095-24	SSHS-B248A-SUB-4-6	Solid	07/11/17 16:18	07/12/17 08:20
180-68095-25	SSHS-B15A-SUB-4-6	Solid	07/11/17 16:35	07/12/17 08:20
180-68095-26	SSHS-B15A-SUB-6-8	Solid	07/11/17 16:35	07/12/17 08:20
180-68095-27	SSHS-B247A-SUB-4-6	Solid	07/11/17 16:27	07/12/17 08:20

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North

TestAmerica Job ID: 180-68095-1

Method	Method Description	Protocol	Laboratory
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL PIT
2540G	SM 2540G	SM22	TAL PIT

Protocol References:

SM22 = SM22

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North

TestAmerica Job ID: 180-68095-1

Client Sample ID: SSHS-B625A-SUB-10-12
Lab Sample ID: 180-68095-1
Date Collected: 07/11/17 08:34
Matrix: Solid
Date Received: 07/12/17 08:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216855	07/12/17 15:07	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B625A-SUB-10-12
Lab Sample ID: 180-68095-1
Date Collected: 07/11/17 08:34
Matrix: Solid
Date Received: 07/12/17 08:20
Percent Solids: 90.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	216806	07/12/17 11:19	MAL	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	216859	07/12/17 15:42	DFE	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	216860	07/12/17 15:43	DFE	TAL PIT
Total/NA	Analysis	8082A		1			216742	07/12/17 17:08	JMO	TAL PIT
	Instrument ID: CHGC16									

Client Sample ID: SSHS-B329A-SUB-10-12
Lab Sample ID: 180-68095-7
Date Collected: 07/11/17 10:55
Matrix: Solid
Date Received: 07/12/17 08:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216855	07/12/17 15:07	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B329A-SUB-10-12
Lab Sample ID: 180-68095-7
Date Collected: 07/11/17 10:55
Matrix: Solid
Date Received: 07/12/17 08:20
Percent Solids: 88.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	216806	07/12/17 11:19	MAL	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	216859	07/12/17 15:42	DFE	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	216860	07/12/17 15:43	DFE	TAL PIT
Total/NA	Analysis	8082A		1			216742	07/12/17 17:30	JMO	TAL PIT
	Instrument ID: CHGC16									

Client Sample ID: SSHS-B632A-SUB-4-6
Lab Sample ID: 180-68095-8
Date Collected: 07/11/17 11:10
Matrix: Solid
Date Received: 07/12/17 08:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216855	07/12/17 15:07	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North

TestAmerica Job ID: 180-68095-1

Client Sample ID: SSHS-B632A-SUB-4-6

Lab Sample ID: 180-68095-8
Date Collected: 07/11/17 11:10
Matrix: Solid
Date Received: 07/12/17 08:20
Percent Solids: 89.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	216806	07/12/17 11:19	MAL	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	216859	07/12/17 15:42	DFE	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	216860	07/12/17 15:43	DFE	TAL PIT
Total/NA	Analysis	8082A		1			216742	07/12/17 17:51	JMO	TAL PIT
	Instrument ID: CHGC16									

Client Sample ID: SSHS-B632A-SUB-6-8

Lab Sample ID: 180-68095-9
Date Collected: 07/11/17 11:10
Matrix: Solid
Date Received: 07/12/17 08:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216855	07/12/17 15:07	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B632A-SUB-6-8

Lab Sample ID: 180-68095-9
Date Collected: 07/11/17 11:10
Matrix: Solid
Date Received: 07/12/17 08:20
Percent Solids: 87.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	216806	07/12/17 11:19	MAL	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	216859	07/12/17 15:42	DFE	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	216860	07/12/17 15:43	DFE	TAL PIT
Total/NA	Analysis	8082A		1			216742	07/12/17 18:13	JMO	TAL PIT
	Instrument ID: CHGC16									

Client Sample ID: SSHS-B632A-SUB-12-14

Lab Sample ID: 180-68095-10
Date Collected: 07/11/17 11:32
Matrix: Solid
Date Received: 07/12/17 08:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216855	07/12/17 15:07	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B632A-SUB-12-14

Lab Sample ID: 180-68095-10
Date Collected: 07/11/17 11:32
Matrix: Solid
Date Received: 07/12/17 08:20
Percent Solids: 90.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	216806	07/12/17 11:19	MAL	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	216859	07/12/17 15:42	DFE	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	216860	07/12/17 15:43	DFE	TAL PIT
Total/NA	Analysis	8082A		1			216742	07/12/17 19:18	JMO	TAL PIT
	Instrument ID: CHGC16									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North

TestAmerica Job ID: 180-68095-1

Client Sample ID: SSHS-B632A-SUB-8-10
Lab Sample ID: 180-68095-11
Date Collected: 07/11/17 11:41
Matrix: Solid
Date Received: 07/12/17 08:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216855	07/12/17 15:07	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B632A-SUB-8-10
Lab Sample ID: 180-68095-11
Date Collected: 07/11/17 11:41
Matrix: Solid
Date Received: 07/12/17 08:20
Percent Solids: 87.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	216806	07/12/17 11:19	MAL	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	216859	07/12/17 15:42	DFE	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	216860	07/12/17 15:43	DFE	TAL PIT
Total/NA	Analysis	8082A		1			216742	07/12/17 19:40	JMO	TAL PIT
	Instrument ID: CHGC16									

Client Sample ID: PS-FD-2
Lab Sample ID: 180-68095-12
Date Collected: 07/11/17 00:00
Matrix: Solid
Date Received: 07/12/17 08:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216855	07/12/17 15:07	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: PS-FD-2
Lab Sample ID: 180-68095-12
Date Collected: 07/11/17 00:00
Matrix: Solid
Date Received: 07/12/17 08:20
Percent Solids: 90.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	216806	07/12/17 11:19	MAL	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	216859	07/12/17 15:42	DFE	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	216860	07/12/17 15:43	DFE	TAL PIT
Total/NA	Analysis	8082A		1			216742	07/12/17 20:02	JMO	TAL PIT
	Instrument ID: CHGC16									

Client Sample ID: SSHS-B632A-SUB-10-12
Lab Sample ID: 180-68095-13
Date Collected: 07/11/17 11:41
Matrix: Solid
Date Received: 07/12/17 08:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216855	07/12/17 15:07	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B632A-SUB-10-12

Lab Sample ID: 180-68095-13
Date Collected: 07/11/17 11:41
Matrix: Solid
Date Received: 07/12/17 08:20
Percent Solids: 90.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	216806	07/12/17 11:19	MAL	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	216859	07/12/17 15:42	DFE	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	216860	07/12/17 15:43	DFE	TAL PIT
Total/NA	Analysis	8082A		1			216742	07/12/17 20:24	JMO	TAL PIT
	Instrument ID: CHGC16									

Client Sample ID: SSHS-B803A-SUB-8-10

Lab Sample ID: 180-68095-14
Date Collected: 07/11/17 12:15
Matrix: Solid
Date Received: 07/12/17 08:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216855	07/12/17 15:07	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B803A-SUB-8-10

Lab Sample ID: 180-68095-14
Date Collected: 07/11/17 12:15
Matrix: Solid
Date Received: 07/12/17 08:20
Percent Solids: 90.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	216806	07/12/17 11:19	MAL	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	216859	07/12/17 15:42	DFE	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	216860	07/12/17 15:43	DFE	TAL PIT
Total/NA	Analysis	8082A		1			216742	07/12/17 20:45	JMO	TAL PIT
	Instrument ID: CHGC16									

Client Sample ID: SSHS-B803A-SUB-10-12

Lab Sample ID: 180-68095-15
Date Collected: 07/11/17 12:15
Matrix: Solid
Date Received: 07/12/17 08:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216855	07/12/17 15:07	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B803A-SUB-10-12

Lab Sample ID: 180-68095-15
Date Collected: 07/11/17 12:15
Matrix: Solid
Date Received: 07/12/17 08:20
Percent Solids: 90.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	216806	07/12/17 11:19	MAL	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	216859	07/12/17 15:42	DFE	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	216860	07/12/17 15:43	DFE	TAL PIT
Total/NA	Analysis	8082A		1			216742	07/12/17 21:07	JMO	TAL PIT
	Instrument ID: CHGC16									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North

TestAmerica Job ID: 180-68095-1

Client Sample ID: SSHS-B804A-SUB-4-6
Date Collected: 07/11/17 13:25
Date Received: 07/12/17 08:20

Lab Sample ID: 180-68095-16
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216855	07/12/17 15:07	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B804A-SUB-4-6
Date Collected: 07/11/17 13:25
Date Received: 07/12/17 08:20

Lab Sample ID: 180-68095-16
Matrix: Solid
Percent Solids: 85.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	216806	07/12/17 11:19	MAL	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	216859	07/12/17 15:42	DFE	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	216860	07/12/17 15:43	DFE	TAL PIT
Total/NA	Analysis	8082A		1			216742	07/12/17 21:29	JMO	TAL PIT
	Instrument ID: CHGC16									

Client Sample ID: PS-FD-3
Date Collected: 07/11/17 00:00
Date Received: 07/12/17 08:20

Lab Sample ID: 180-68095-23
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216855	07/12/17 15:07	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: PS-FD-3
Date Collected: 07/11/17 00:00
Date Received: 07/12/17 08:20

Lab Sample ID: 180-68095-23
Matrix: Solid
Percent Solids: 90.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	216806	07/12/17 11:19	MAL	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	216859	07/12/17 15:42	DFE	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	216860	07/12/17 15:43	DFE	TAL PIT
Total/NA	Analysis	8082A		1			216742	07/12/17 21:51	JMO	TAL PIT
	Instrument ID: CHGC16									

Client Sample ID: SSHS-B248A-SUB-4-6
Date Collected: 07/11/17 16:18
Date Received: 07/12/17 08:20

Lab Sample ID: 180-68095-24
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216855	07/12/17 15:07	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B248A-SUB-4-6

Lab Sample ID: 180-68095-24
Date Collected: 07/11/17 16:18
Matrix: Solid
Date Received: 07/12/17 08:20
Percent Solids: 89.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	216806	07/12/17 11:19	MAL	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	216859	07/12/17 15:42	DFE	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	216860	07/12/17 15:43	DFE	TAL PIT
Total/NA	Analysis	8082A		1			216742	07/12/17 22:12	JMO	TAL PIT
	Instrument ID: CHGC16									

Client Sample ID: SSHS-B15A-SUB-4-6

Lab Sample ID: 180-68095-25
Date Collected: 07/11/17 16:35
Matrix: Solid
Date Received: 07/12/17 08:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216865	07/12/17 15:57	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B15A-SUB-4-6

Lab Sample ID: 180-68095-25
Date Collected: 07/11/17 16:35
Matrix: Solid
Date Received: 07/12/17 08:20
Percent Solids: 91.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	216806	07/12/17 11:19	MAL	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	216859	07/12/17 15:42	DFE	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	216860	07/12/17 15:43	DFE	TAL PIT
Total/NA	Analysis	8082A		1	1 uL	1.0 mL	216742	07/12/17 22:34	JMO	TAL PIT
	Instrument ID: CHGC16									

Client Sample ID: SSHS-B15A-SUB-6-8

Lab Sample ID: 180-68095-26
Date Collected: 07/11/17 16:35
Matrix: Solid
Date Received: 07/12/17 08:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216865	07/12/17 15:57	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B15A-SUB-6-8

Lab Sample ID: 180-68095-26
Date Collected: 07/11/17 16:35
Matrix: Solid
Date Received: 07/12/17 08:20
Percent Solids: 91.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	216806	07/12/17 11:19	MAL	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	216859	07/12/17 15:42	DFE	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	216860	07/12/17 15:43	DFE	TAL PIT
Total/NA	Analysis	8082A		1			216742	07/12/17 22:56	JMO	TAL PIT
	Instrument ID: CHGC16									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North

TestAmerica Job ID: 180-68095-1

Client Sample ID: SSHS-B247A-SUB-4-6

Lab Sample ID: 180-68095-27
Matrix: Solid
Date Collected: 07/11/17 16:27
Date Received: 07/12/17 08:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216865	07/12/17 15:57	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SSHS-B247A-SUB-4-6

Lab Sample ID: 180-68095-27
Matrix: Solid
Date Collected: 07/11/17 16:27
Date Received: 07/12/17 08:20
Percent Solids: 91.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	216806	07/12/17 11:19	MAL	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	216859	07/12/17 15:42	DFE	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	216860	07/12/17 15:43	DFE	TAL PIT
Total/NA	Analysis	8082A		1			216742	07/12/17 23:18	JMO	TAL PIT
	Instrument ID: CHGC16									

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Analyst References:

Lab: TAL PIT

Batch Type: Cleanup

DFE = David Eppinger

Batch Type: Prep

MAL = Michael Lonzo

Batch Type: Analysis

JMO = John Oravec

JTL = Justin Landry

Client Sample ID: SSHS-B625A-SUB-10-12

Lab Sample ID: 180-68095-1
Date Collected: 07/11/17 08:34
Matrix: Solid
Date Received: 07/12/17 08:20
Percent Solids: 90.2

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		18	9.8	ug/Kg	☼	07/12/17 11:19	07/12/17 17:08	1
PCB-1221	ND		18	9.6	ug/Kg	☼	07/12/17 11:19	07/12/17 17:08	1
PCB-1232	ND		18	7.3	ug/Kg	☼	07/12/17 11:19	07/12/17 17:08	1
PCB-1242	ND		18	15	ug/Kg	☼	07/12/17 11:19	07/12/17 17:08	1
PCB-1248	**30**		18	8.8	ug/Kg	☼	07/12/17 11:19	07/12/17 17:08	1
PCB-1254	**30**		18	8.1	ug/Kg	☼	07/12/17 11:19	07/12/17 17:08	1
PCB-1260	ND		18	12	ug/Kg	☼	07/12/17 11:19	07/12/17 17:08	1
PCB-1262	ND		18	13	ug/Kg	☼	07/12/17 11:19	07/12/17 17:08	1
PCB-1268	ND		18	5.6	ug/Kg	☼	07/12/17 11:19	07/12/17 17:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*86*		*23 - 150*	*07/12/17 11:19*	*07/12/17 17:08*	*1*
DCB Decachlorobiphenyl (Surr)	*92*		*23 - 150*	*07/12/17 11:19*	*07/12/17 17:08*	*1*
Tetrachloro-m-xylene (Surr)	*102*		*27 - 138*	*07/12/17 11:19*	*07/12/17 17:08*	*1*
Tetrachloro-m-xylene (Surr)	*107*		*27 - 138*	*07/12/17 11:19*	*07/12/17 17:08*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.8**		0.1	0.1	%			07/12/17 15:07	1
Percent Solids	**90.2**		0.1	0.1	%			07/12/17 15:07	1

Client Sample ID: SSHS-B329A-SUB-10-12

Lab Sample ID: 180-68095-7
Date Collected: 07/11/17 10:55
Matrix: Solid
Date Received: 07/12/17 08:20
Percent Solids: 88.5

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		19	10	ug/Kg	☼	07/12/17 11:19	07/12/17 17:30	1
PCB-1221	ND		19	9.8	ug/Kg	☼	07/12/17 11:19	07/12/17 17:30	1
PCB-1232	ND		19	7.5	ug/Kg	☼	07/12/17 11:19	07/12/17 17:30	1
PCB-1242	ND		19	15	ug/Kg	☼	07/12/17 11:19	07/12/17 17:30	1
PCB-1248	ND		19	9.0	ug/Kg	☼	07/12/17 11:19	07/12/17 17:30	1
PCB-1254	ND		19	8.3	ug/Kg	☼	07/12/17 11:19	07/12/17 17:30	1
PCB-1260	ND		19	13	ug/Kg	☼	07/12/17 11:19	07/12/17 17:30	1
PCB-1262	ND		19	14	ug/Kg	☼	07/12/17 11:19	07/12/17 17:30	1
PCB-1268	ND		19	5.7	ug/Kg	☼	07/12/17 11:19	07/12/17 17:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*87*		*23 - 150*	*07/12/17 11:19*	*07/12/17 17:30*	*1*
DCB Decachlorobiphenyl (Surr)	*92*		*23 - 150*	*07/12/17 11:19*	*07/12/17 17:30*	*1*
Tetrachloro-m-xylene (Surr)	*103*		*27 - 138*	*07/12/17 11:19*	*07/12/17 17:30*	*1*
Tetrachloro-m-xylene (Surr)	*109*		*27 - 138*	*07/12/17 11:19*	*07/12/17 17:30*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**11.5**		0.1	0.1	%			07/12/17 15:07	1
Percent Solids	**88.5**		0.1	0.1	%			07/12/17 15:07	1

Client Sample ID: SSHS-B632A-SUB-4-6

Lab Sample ID: 180-68095-8
Date Collected: 07/11/17 11:10
Matrix: Solid
Date Received: 07/12/17 08:20
Percent Solids: 89.7

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		19	9.9	ug/Kg	☼	07/12/17 11:19	07/12/17 17:51	1
PCB-1221	ND		19	9.6	ug/Kg	☼	07/12/17 11:19	07/12/17 17:51	1
PCB-1232	ND		19	7.4	ug/Kg	☼	07/12/17 11:19	07/12/17 17:51	1
PCB-1242	ND		19	15	ug/Kg	☼	07/12/17 11:19	07/12/17 17:51	1
PCB-1248	ND		19	8.9	ug/Kg	☼	07/12/17 11:19	07/12/17 17:51	1
PCB-1254	ND		19	8.1	ug/Kg	☼	07/12/17 11:19	07/12/17 17:51	1
PCB-1260	ND		19	12	ug/Kg	☼	07/12/17 11:19	07/12/17 17:51	1
PCB-1262	ND		19	13	ug/Kg	☼	07/12/17 11:19	07/12/17 17:51	1
PCB-1268	ND		19	5.7	ug/Kg	☼	07/12/17 11:19	07/12/17 17:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*87*		*23 - 150*	*07/12/17 11:19*	*07/12/17 17:51*	*1*
DCB Decachlorobiphenyl (Surr)	*97*		*23 - 150*	*07/12/17 11:19*	*07/12/17 17:51*	*1*
Tetrachloro-m-xylene (Surr)	*104*		*27 - 138*	*07/12/17 11:19*	*07/12/17 17:51*	*1*
Tetrachloro-m-xylene (Surr)	*110*		*27 - 138*	*07/12/17 11:19*	*07/12/17 17:51*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**10.3**		0.1	0.1	%			07/12/17 15:07	1
Percent Solids	**89.7**		0.1	0.1	%			07/12/17 15:07	1

Client Sample ID: SSHS-B632A-SUB-6-8

Lab Sample ID: 180-68095-9
Date Collected: 07/11/17 11:10
Matrix: Solid
Date Received: 07/12/17 08:20
Percent Solids: 87.6

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		19	10	ug/Kg	☼	07/12/17 11:19	07/12/17 18:13	1
PCB-1221	ND		19	9.9	ug/Kg	☼	07/12/17 11:19	07/12/17 18:13	1
PCB-1232	ND		19	7.5	ug/Kg	☼	07/12/17 11:19	07/12/17 18:13	1
PCB-1242	ND		19	15	ug/Kg	☼	07/12/17 11:19	07/12/17 18:13	1
PCB-1248	ND		19	9.1	ug/Kg	☼	07/12/17 11:19	07/12/17 18:13	1
PCB-1254	ND		19	8.3	ug/Kg	☼	07/12/17 11:19	07/12/17 18:13	1
PCB-1260	ND		19	13	ug/Kg	☼	07/12/17 11:19	07/12/17 18:13	1
PCB-1262	ND		19	14	ug/Kg	☼	07/12/17 11:19	07/12/17 18:13	1
PCB-1268	ND		19	5.8	ug/Kg	☼	07/12/17 11:19	07/12/17 18:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*84*		*23 - 150*	*07/12/17 11:19*	*07/12/17 18:13*	*1*
DCB Decachlorobiphenyl (Surr)	*89*		*23 - 150*	*07/12/17 11:19*	*07/12/17 18:13*	*1*
Tetrachloro-m-xylene (Surr)	*102*		*27 - 138*	*07/12/17 11:19*	*07/12/17 18:13*	*1*
Tetrachloro-m-xylene (Surr)	*106*		*27 - 138*	*07/12/17 11:19*	*07/12/17 18:13*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**12.4**		0.1	0.1	%			07/12/17 15:07	1
Percent Solids	**87.6**		0.1	0.1	%			07/12/17 15:07	1

Client Sample ID: SSHS-B632A-SUB-12-14

Lab Sample ID: 180-68095-10
Date Collected: 07/11/17 11:32
Matrix: Solid
Date Received: 07/12/17 08:20
Percent Solids: 90.8

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		18	9.7	ug/Kg	☼	07/12/17 11:19	07/12/17 19:18	1
PCB-1221	ND		18	9.5	ug/Kg	☼	07/12/17 11:19	07/12/17 19:18	1
PCB-1232	ND		18	7.3	ug/Kg	☼	07/12/17 11:19	07/12/17 19:18	1
PCB-1242	ND		18	15	ug/Kg	☼	07/12/17 11:19	07/12/17 19:18	1
PCB-1248	ND		18	8.8	ug/Kg	☼	07/12/17 11:19	07/12/17 19:18	1
PCB-1254	ND		18	8.0	ug/Kg	☼	07/12/17 11:19	07/12/17 19:18	1
PCB-1260	ND		18	12	ug/Kg	☼	07/12/17 11:19	07/12/17 19:18	1
PCB-1262	ND		18	13	ug/Kg	☼	07/12/17 11:19	07/12/17 19:18	1
PCB-1268	ND		18	5.6	ug/Kg	☼	07/12/17 11:19	07/12/17 19:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*74*		*23 - 150*	*07/12/17 11:19*	*07/12/17 19:18*	*1*
DCB Decachlorobiphenyl (Surr)	*80*		*23 - 150*	*07/12/17 11:19*	*07/12/17 19:18*	*1*
Tetrachloro-m-xylene (Surr)	*95*		*27 - 138*	*07/12/17 11:19*	*07/12/17 19:18*	*1*
Tetrachloro-m-xylene (Surr)	*98*		*27 - 138*	*07/12/17 11:19*	*07/12/17 19:18*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.2**		0.1	0.1	%			07/12/17 15:07	1
Percent Solids	**90.8**		0.1	0.1	%			07/12/17 15:07	1

Client Sample ID: SSHS-B632A-SUB-8-10

Lab Sample ID: 180-68095-11
Date Collected: 07/11/17 11:41
Matrix: Solid
Date Received: 07/12/17 08:20
Percent Solids: 87.4

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		19	10	ug/Kg	☼	07/12/17 11:19	07/12/17 19:40	1
PCB-1221	ND		19	9.9	ug/Kg	☼	07/12/17 11:19	07/12/17 19:40	1
PCB-1232	ND		19	7.6	ug/Kg	☼	07/12/17 11:19	07/12/17 19:40	1
PCB-1242	ND		19	15	ug/Kg	☼	07/12/17 11:19	07/12/17 19:40	1
PCB-1248	ND		19	9.1	ug/Kg	☼	07/12/17 11:19	07/12/17 19:40	1
PCB-1254	ND		19	8.4	ug/Kg	☼	07/12/17 11:19	07/12/17 19:40	1
PCB-1260	ND		19	13	ug/Kg	☼	07/12/17 11:19	07/12/17 19:40	1
PCB-1262	ND		19	14	ug/Kg	☼	07/12/17 11:19	07/12/17 19:40	1
PCB-1268	ND		19	5.8	ug/Kg	☼	07/12/17 11:19	07/12/17 19:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*92*		*23 - 150*	*07/12/17 11:19*	*07/12/17 19:40*	*1*
DCB Decachlorobiphenyl (Surr)	*101*		*23 - 150*	*07/12/17 11:19*	*07/12/17 19:40*	*1*
Tetrachloro-m-xylene (Surr)	*110*		*27 - 138*	*07/12/17 11:19*	*07/12/17 19:40*	*1*
Tetrachloro-m-xylene (Surr)	*115*		*27 - 138*	*07/12/17 11:19*	*07/12/17 19:40*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**12.6**		0.1	0.1	%			07/12/17 15:07	1
Percent Solids	**87.4**		0.1	0.1	%			07/12/17 15:07	1

Client Sample ID: PS-FD-2

Lab Sample ID: 180-68095-12
Date Collected: 07/11/17 00:00
Matrix: Solid
Date Received: 07/12/17 08:20
Percent Solids: 90.9

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		18	9.7	ug/Kg	☼	07/12/17 11:19	07/12/17 20:02	1
PCB-1221	ND		18	9.5	ug/Kg	☼	07/12/17 11:19	07/12/17 20:02	1
PCB-1232	ND		18	7.3	ug/Kg	☼	07/12/17 11:19	07/12/17 20:02	1
PCB-1242	ND		18	15	ug/Kg	☼	07/12/17 11:19	07/12/17 20:02	1
PCB-1248	ND		18	8.8	ug/Kg	☼	07/12/17 11:19	07/12/17 20:02	1
PCB-1254	ND		18	8.0	ug/Kg	☼	07/12/17 11:19	07/12/17 20:02	1
PCB-1260	ND		18	12	ug/Kg	☼	07/12/17 11:19	07/12/17 20:02	1
PCB-1262	ND		18	13	ug/Kg	☼	07/12/17 11:19	07/12/17 20:02	1
PCB-1268	ND		18	5.6	ug/Kg	☼	07/12/17 11:19	07/12/17 20:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*89*		*23 - 150*	*07/12/17 11:19*	*07/12/17 20:02*	*1*
DCB Decachlorobiphenyl (Surr)	*92*		*23 - 150*	*07/12/17 11:19*	*07/12/17 20:02*	*1*
Tetrachloro-m-xylene (Surr)	*99*		*27 - 138*	*07/12/17 11:19*	*07/12/17 20:02*	*1*
Tetrachloro-m-xylene (Surr)	*103*		*27 - 138*	*07/12/17 11:19*	*07/12/17 20:02*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.1**		0.1	0.1	%			07/12/17 15:07	1
Percent Solids	**90.9**		0.1	0.1	%			07/12/17 15:07	1

Client Sample ID: SSHS-B632A-SUB-10-12

Lab Sample ID: 180-68095-13
Date Collected: 07/11/17 11:41
Matrix: Solid
Date Received: 07/12/17 08:20
Percent Solids: 90.5

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		18	9.8	ug/Kg	☼	07/12/17 11:19	07/12/17 20:24	1
PCB-1221	ND		18	9.5	ug/Kg	☼	07/12/17 11:19	07/12/17 20:24	1
PCB-1232	ND		18	7.3	ug/Kg	☼	07/12/17 11:19	07/12/17 20:24	1
PCB-1242	ND		18	15	ug/Kg	☼	07/12/17 11:19	07/12/17 20:24	1
PCB-1248	ND		18	8.8	ug/Kg	☼	07/12/17 11:19	07/12/17 20:24	1
PCB-1254	ND		18	8.1	ug/Kg	☼	07/12/17 11:19	07/12/17 20:24	1
PCB-1260	ND		18	12	ug/Kg	☼	07/12/17 11:19	07/12/17 20:24	1
PCB-1262	ND		18	13	ug/Kg	☼	07/12/17 11:19	07/12/17 20:24	1
PCB-1268	ND		18	5.6	ug/Kg	☼	07/12/17 11:19	07/12/17 20:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*88*		*23 - 150*	*07/12/17 11:19*	*07/12/17 20:24*	*1*
DCB Decachlorobiphenyl (Surr)	*93*		*23 - 150*	*07/12/17 11:19*	*07/12/17 20:24*	*1*
Tetrachloro-m-xylene (Surr)	*103*		*27 - 138*	*07/12/17 11:19*	*07/12/17 20:24*	*1*
Tetrachloro-m-xylene (Surr)	*106*		*27 - 138*	*07/12/17 11:19*	*07/12/17 20:24*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.5**		0.1	0.1	%			07/12/17 15:07	1
Percent Solids	**90.5**		0.1	0.1	%			07/12/17 15:07	1

Client Sample ID: SSHS-B803A-SUB-8-10

Lab Sample ID: 180-68095-14
Date Collected: 07/11/17 12:15
Matrix: Solid
Date Received: 07/12/17 08:20
Percent Solids: 90.0

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		19	9.8	ug/Kg	☼	07/12/17 11:19	07/12/17 20:45	1
PCB-1221	ND		19	9.6	ug/Kg	☼	07/12/17 11:19	07/12/17 20:45	1
PCB-1232	ND		19	7.3	ug/Kg	☼	07/12/17 11:19	07/12/17 20:45	1
PCB-1242	ND		19	15	ug/Kg	☼	07/12/17 11:19	07/12/17 20:45	1
PCB-1248	ND		19	8.8	ug/Kg	☼	07/12/17 11:19	07/12/17 20:45	1
PCB-1254	ND		19	8.1	ug/Kg	☼	07/12/17 11:19	07/12/17 20:45	1
PCB-1260	ND		19	12	ug/Kg	☼	07/12/17 11:19	07/12/17 20:45	1
PCB-1262	ND		19	13	ug/Kg	☼	07/12/17 11:19	07/12/17 20:45	1
PCB-1268	ND		19	5.6	ug/Kg	☼	07/12/17 11:19	07/12/17 20:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*44*		*23 - 150*	*07/12/17 11:19*	*07/12/17 20:45*	*1*
DCB Decachlorobiphenyl (Surr)	*47*	*	*23 - 150*	*07/12/17 11:19*	*07/12/17 20:45*	*1*
Tetrachloro-m-xylene (Surr)	*57*		*27 - 138*	*07/12/17 11:19*	*07/12/17 20:45*	*1*
Tetrachloro-m-xylene (Surr)	*58*		*27 - 138*	*07/12/17 11:19*	*07/12/17 20:45*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**10.0**		0.1	0.1	%			07/12/17 15:07	1
Percent Solids	**90.0**		0.1	0.1	%			07/12/17 15:07	1

Client Sample ID: SSHS-B803A-SUB-10-12

Lab Sample ID: 180-68095-15
Date Collected: 07/11/17 12:15
Matrix: Solid
Date Received: 07/12/17 08:20
Percent Solids: 90.3

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		18	9.8	ug/Kg	☼	07/12/17 11:19	07/12/17 21:07	1
PCB-1221	ND		18	9.6	ug/Kg	☼	07/12/17 11:19	07/12/17 21:07	1
PCB-1232	ND		18	7.3	ug/Kg	☼	07/12/17 11:19	07/12/17 21:07	1
PCB-1242	ND		18	15	ug/Kg	☼	07/12/17 11:19	07/12/17 21:07	1
PCB-1248	ND		18	8.8	ug/Kg	☼	07/12/17 11:19	07/12/17 21:07	1
PCB-1254	ND		18	8.1	ug/Kg	☼	07/12/17 11:19	07/12/17 21:07	1
PCB-1260	ND		18	12	ug/Kg	☼	07/12/17 11:19	07/12/17 21:07	1
PCB-1262	ND		18	13	ug/Kg	☼	07/12/17 11:19	07/12/17 21:07	1
PCB-1268	ND		18	5.6	ug/Kg	☼	07/12/17 11:19	07/12/17 21:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*86*		*23 - 150*	*07/12/17 11:19*	*07/12/17 21:07*	*1*
DCB Decachlorobiphenyl (Surr)	*90*		*23 - 150*	*07/12/17 11:19*	*07/12/17 21:07*	*1*
Tetrachloro-m-xylene (Surr)	*99*		*27 - 138*	*07/12/17 11:19*	*07/12/17 21:07*	*1*
Tetrachloro-m-xylene (Surr)	*106*		*27 - 138*	*07/12/17 11:19*	*07/12/17 21:07*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.7**		0.1	0.1	%			07/12/17 15:07	1
Percent Solids	**90.3**		0.1	0.1	%			07/12/17 15:07	1

Client Sample ID: SSHS-B804A-SUB-4-6

Lab Sample ID: 180-68095-16
Date Collected: 07/11/17 13:25
Matrix: Solid
Date Received: 07/12/17 08:20
Percent Solids: 85.9

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		19	10	ug/Kg	☼	07/12/17 11:19	07/12/17 21:29	1
PCB-1221	ND		19	10	ug/Kg	☼	07/12/17 11:19	07/12/17 21:29	1
PCB-1232	ND		19	7.7	ug/Kg	☼	07/12/17 11:19	07/12/17 21:29	1
PCB-1242	ND		19	15	ug/Kg	☼	07/12/17 11:19	07/12/17 21:29	1
PCB-1248	**80**		19	9.3	ug/Kg	☼	07/12/17 11:19	07/12/17 21:29	1
PCB-1254	**49**		19	8.5	ug/Kg	☼	07/12/17 11:19	07/12/17 21:29	1
PCB-1260	ND		19	13	ug/Kg	☼	07/12/17 11:19	07/12/17 21:29	1
PCB-1262	ND		19	14	ug/Kg	☼	07/12/17 11:19	07/12/17 21:29	1
PCB-1268	ND		19	5.9	ug/Kg	☼	07/12/17 11:19	07/12/17 21:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*90*		*23 - 150*	*07/12/17 11:19*	*07/12/17 21:29*	*1*
DCB Decachlorobiphenyl (Surr)	*100*		*23 - 150*	*07/12/17 11:19*	*07/12/17 21:29*	*1*
Tetrachloro-m-xylene (Surr)	*97*		*27 - 138*	*07/12/17 11:19*	*07/12/17 21:29*	*1*
Tetrachloro-m-xylene (Surr)	*96*		*27 - 138*	*07/12/17 11:19*	*07/12/17 21:29*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**14.1**		0.1	0.1	%			07/12/17 15:07	1
Percent Solids	**85.9**		0.1	0.1	%			07/12/17 15:07	1

Client Sample ID: PS-FD-3

Lab Sample ID: 180-68095-23
Date Collected: 07/11/17 00:00
Matrix: Solid
Date Received: 07/12/17 08:20
Percent Solids: 90.4

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		18	9.8	ug/Kg	☼	07/12/17 11:19	07/12/17 21:51	1
PCB-1221	ND		18	9.5	ug/Kg	☼	07/12/17 11:19	07/12/17 21:51	1
PCB-1232	ND		18	7.3	ug/Kg	☼	07/12/17 11:19	07/12/17 21:51	1
PCB-1242	ND		18	15	ug/Kg	☼	07/12/17 11:19	07/12/17 21:51	1
PCB-1248	**4100**		18	8.8	ug/Kg	☼	07/12/17 11:19	07/12/17 21:51	1
PCB-1254	**1900**		18	8.1	ug/Kg	☼	07/12/17 11:19	07/12/17 21:51	1
PCB-1260	**230**		18	12	ug/Kg	☼	07/12/17 11:19	07/12/17 21:51	1
PCB-1262	ND		18	13	ug/Kg	☼	07/12/17 11:19	07/12/17 21:51	1
PCB-1268	ND		18	5.6	ug/Kg	☼	07/12/17 11:19	07/12/17 21:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*92*		*23 - 150*	*07/12/17 11:19*	*07/12/17 21:51*	*1*
DCB Decachlorobiphenyl (Surr)	*106*		*23 - 150*	*07/12/17 11:19*	*07/12/17 21:51*	*1*
Tetrachloro-m-xylene (Surr)	*112*		*27 - 138*	*07/12/17 11:19*	*07/12/17 21:51*	*1*
Tetrachloro-m-xylene (Surr)	*110*		*27 - 138*	*07/12/17 11:19*	*07/12/17 21:51*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.6**		0.1	0.1	%			07/12/17 15:07	1
Percent Solids	**90.4**		0.1	0.1	%			07/12/17 15:07	1

Client Sample ID: SSHS-B248A-SUB-4-6

Lab Sample ID: 180-68095-24

Date Collected: 07/11/17 16:18
Matrix: Solid
Date Received: 07/12/17 08:20
Percent Solids: 89.0

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		19	9.9	ug/Kg	☼	07/12/17 11:19	07/12/17 22:12	1
PCB-1221	ND		19	9.7	ug/Kg	☼	07/12/17 11:19	07/12/17 22:12	1
PCB-1232	ND		19	7.4	ug/Kg	☼	07/12/17 11:19	07/12/17 22:12	1
PCB-1242	ND		19	15	ug/Kg	☼	07/12/17 11:19	07/12/17 22:12	1
PCB-1248	**4600**		19	8.9	ug/Kg	☼	07/12/17 11:19	07/12/17 22:12	1
PCB-1254	**2100**		19	8.2	ug/Kg	☼	07/12/17 11:19	07/12/17 22:12	1
PCB-1260	**250**		19	13	ug/Kg	☼	07/12/17 11:19	07/12/17 22:12	1
PCB-1262	ND		19	13	ug/Kg	☼	07/12/17 11:19	07/12/17 22:12	1
PCB-1268	ND		19	5.7	ug/Kg	☼	07/12/17 11:19	07/12/17 22:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*84*		*23 - 150*	*07/12/17 11:19*	*07/12/17 22:12*	*1*
DCB Decachlorobiphenyl (Surr)	*97*		*23 - 150*	*07/12/17 11:19*	*07/12/17 22:12*	*1*
Tetrachloro-m-xylene (Surr)	*102*		*27 - 138*	*07/12/17 11:19*	*07/12/17 22:12*	*1*
Tetrachloro-m-xylene (Surr)	*102*		*27 - 138*	*07/12/17 11:19*	*07/12/17 22:12*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**11.0**		0.1	0.1	%			07/12/17 15:07	1
Percent Solids	**89.0**		0.1	0.1	%			07/12/17 15:07	1

Client Sample ID: SSHS-B15A-SUB-4-6

Lab Sample ID: 180-68095-25

Date Collected: 07/11/17 16:35
Matrix: Solid
Date Received: 07/12/17 08:20
Percent Solids: 91.5

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		18	9.7	ug/Kg	☼	07/12/17 11:19	07/12/17 22:34	1
PCB-1221	ND		18	9.4	ug/Kg	☼	07/12/17 11:19	07/12/17 22:34	1
PCB-1232	ND		18	7.2	ug/Kg	☼	07/12/17 11:19	07/12/17 22:34	1
PCB-1242	ND		18	14	ug/Kg	☼	07/12/17 11:19	07/12/17 22:34	1
PCB-1248	**290**		18	8.7	ug/Kg	☼	07/12/17 11:19	07/12/17 22:34	1
PCB-1254	**170**		18	8.0	ug/Kg	☼	07/12/17 11:19	07/12/17 22:34	1
PCB-1260	**22**		18	12	ug/Kg	☼	07/12/17 11:19	07/12/17 22:34	1
PCB-1262	ND		18	13	ug/Kg	☼	07/12/17 11:19	07/12/17 22:34	1
PCB-1268	ND		18	5.5	ug/Kg	☼	07/12/17 11:19	07/12/17 22:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*92*		*23 - 150*	*07/12/17 11:19*	*07/12/17 22:34*	*1*
DCB Decachlorobiphenyl (Surr)	*102*		*23 - 150*	*07/12/17 11:19*	*07/12/17 22:34*	*1*
Tetrachloro-m-xylene (Surr)	*106*		*27 - 138*	*07/12/17 11:19*	*07/12/17 22:34*	*1*
Tetrachloro-m-xylene (Surr)	*109*		*27 - 138*	*07/12/17 11:19*	*07/12/17 22:34*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**8.5**		0.1	0.1	%			07/12/17 15:57	1
Percent Solids	**91.5**		0.1	0.1	%			07/12/17 15:57	1

Client Sample ID: SSHS-B15A-SUB-6-8

Lab Sample ID: 180-68095-26
Date Collected: 07/11/17 16:35
Matrix: Solid
Date Received: 07/12/17 08:20
Percent Solids: 91.5

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		18	9.7	ug/Kg	☼	07/12/17 11:19	07/12/17 22:56	1
PCB-1221	ND		18	9.4	ug/Kg	☼	07/12/17 11:19	07/12/17 22:56	1
PCB-1232	ND		18	7.2	ug/Kg	☼	07/12/17 11:19	07/12/17 22:56	1
PCB-1242	ND		18	14	ug/Kg	☼	07/12/17 11:19	07/12/17 22:56	1
PCB-1248	ND		18	8.7	ug/Kg	☼	07/12/17 11:19	07/12/17 22:56	1
PCB-1254	ND		18	8.0	ug/Kg	☼	07/12/17 11:19	07/12/17 22:56	1
PCB-1260	ND		18	12	ug/Kg	☼	07/12/17 11:19	07/12/17 22:56	1
PCB-1262	ND		18	13	ug/Kg	☼	07/12/17 11:19	07/12/17 22:56	1
PCB-1268	ND		18	5.5	ug/Kg	☼	07/12/17 11:19	07/12/17 22:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*91*		*23 - 150*	*07/12/17 11:19*	*07/12/17 22:56*	*1*
DCB Decachlorobiphenyl (Surr)	*100*		*23 - 150*	*07/12/17 11:19*	*07/12/17 22:56*	*1*
Tetrachloro-m-xylene (Surr)	*107*		*27 - 138*	*07/12/17 11:19*	*07/12/17 22:56*	*1*
Tetrachloro-m-xylene (Surr)	*112*		*27 - 138*	*07/12/17 11:19*	*07/12/17 22:56*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**8.5**		0.1	0.1	%			07/12/17 15:57	1
Percent Solids	**91.5**		0.1	0.1	%			07/12/17 15:57	1

Client Sample ID: SSHS-B247A-SUB-4-6

Lab Sample ID: 180-68095-27
Date Collected: 07/11/17 16:27
Matrix: Solid
Date Received: 07/12/17 08:20
Percent Solids: 91.9

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		18	9.6	ug/Kg	☼	07/12/17 11:19	07/12/17 23:18	1
PCB-1221	ND		18	9.4	ug/Kg	☼	07/12/17 11:19	07/12/17 23:18	1
PCB-1232	ND		18	7.2	ug/Kg	☼	07/12/17 11:19	07/12/17 23:18	1
PCB-1242	ND		18	14	ug/Kg	☼	07/12/17 11:19	07/12/17 23:18	1
PCB-1248	**14**	**J**	18	8.7	ug/Kg	☼	07/12/17 11:19	07/12/17 23:18	1
PCB-1254	ND		18	8.0	ug/Kg	☼	07/12/17 11:19	07/12/17 23:18	1
PCB-1260	ND		18	12	ug/Kg	☼	07/12/17 11:19	07/12/17 23:18	1
PCB-1262	ND		18	13	ug/Kg	☼	07/12/17 11:19	07/12/17 23:18	1
PCB-1268	ND		18	5.5	ug/Kg	☼	07/12/17 11:19	07/12/17 23:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*88*		*23 - 150*	*07/12/17 11:19*	*07/12/17 23:18*	*1*
DCB Decachlorobiphenyl (Surr)	*95*		*23 - 150*	*07/12/17 11:19*	*07/12/17 23:18*	*1*
Tetrachloro-m-xylene (Surr)	*99*		*27 - 138*	*07/12/17 11:19*	*07/12/17 23:18*	*1*
Tetrachloro-m-xylene (Surr)	*103*		*27 - 138*	*07/12/17 11:19*	*07/12/17 23:18*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**8.1**		0.1	0.1	%			07/12/17 15:57	1
Percent Solids	**91.9**		0.1	0.1	%			07/12/17 15:57	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 180-216806/1-C
Matrix: Solid
Analysis Batch: 216742

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 216806

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		17	8.8	ug/Kg		07/12/17 11:19	07/12/17 16:25	1
PCB-1221	ND		17	8.6	ug/Kg		07/12/17 11:19	07/12/17 16:25	1
PCB-1232	ND		17	6.6	ug/Kg		07/12/17 11:19	07/12/17 16:25	1
PCB-1242	ND		17	13	ug/Kg		07/12/17 11:19	07/12/17 16:25	1
PCB-1248	ND		17	8.0	ug/Kg		07/12/17 11:19	07/12/17 16:25	1
PCB-1254	ND		17	7.3	ug/Kg		07/12/17 11:19	07/12/17 16:25	1
PCB-1260	ND		17	11	ug/Kg		07/12/17 11:19	07/12/17 16:25	1
PCB-1262	ND		17	12	ug/Kg		07/12/17 11:19	07/12/17 16:25	1
PCB-1268	ND		17	5.1	ug/Kg		07/12/17 11:19	07/12/17 16:25	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*84*		*23 - 150*	*07/12/17 11:19*	*07/12/17 16:25*	*1*
DCB Decachlorobiphenyl (Surr)	*91*		*23 - 150*	*07/12/17 11:19*	*07/12/17 16:25*	*1*
Tetrachloro-m-xylene (Surr)	*85*		*27 - 138*	*07/12/17 11:19*	*07/12/17 16:25*	*1*
Tetrachloro-m-xylene (Surr)	*91*		*27 - 138*	*07/12/17 11:19*	*07/12/17 16:25*	*1*

Lab Sample ID: LCS 180-216806/2-C
Matrix: Solid
Analysis Batch: 216742

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 216806

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			1330	1090		ug/Kg		82	52 - 126		
PCB-1260			1330	1090		ug/Kg		82	50 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*90*		*23 - 150*
DCB Decachlorobiphenyl (Surr)	*94*		*23 - 150*
Tetrachloro-m-xylene (Surr)	*87*		*27 - 138*
Tetrachloro-m-xylene (Surr)	*90*		*27 - 138*

Lab Sample ID: 180-68095-9 MS
Matrix: Solid
Analysis Batch: 216742

Client Sample ID: SSHS-B632A-SUB-6-8
Prep Type: Total/NA
Prep Batch: 216806

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016	ND		1520	1360		ug/Kg	☼	89	52 - 126		
PCB-1260	ND		1520	1180		ug/Kg	☼	78	50 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*83*		*23 - 150*
DCB Decachlorobiphenyl (Surr)	*89*		*23 - 150*
Tetrachloro-m-xylene (Surr)	*97*		*27 - 138*
Tetrachloro-m-xylene (Surr)	*102*		*27 - 138*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 180-68095-9 MSD
Matrix: Solid
Analysis Batch: 216742

Client Sample ID: SSHS-B632A-SUB-6-8
Prep Type: Total/NA
Prep Batch: 216806

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	ND		1520	1440		ug/Kg	☼	94	52 - 126	5	20
PCB-1260	ND		1520	1260		ug/Kg	☼	83	50 - 130	6	21

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*85*		*23 - 150*
DCB Decachlorobiphenyl (Surr)	*92*		*23 - 150*
Tetrachloro-m-xylene (Surr)	*100*		*27 - 138*
Tetrachloro-m-xylene (Surr)	*106*		*27 - 138*

Method: 2540G - SM 2540G

Lab Sample ID: 180-68095-1 DU
Matrix: Solid
Analysis Batch: 216855

Client Sample ID: SSHS-B625A-SUB-10-12
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	9.8		9.9		%		1	20
Percent Solids	90.2		90.1		%		0.1	20

Lab Sample ID: 180-68095-15 DU
Matrix: Solid
Analysis Batch: 216855

Client Sample ID: SSHS-B803A-SUB-10-12
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	9.7		9.3		%		5	20
Percent Solids	90.3		90.7		%		0.5	20

Lab Sample ID: 180-68095-26 DU
Matrix: Solid
Analysis Batch: 216865

Client Sample ID: SSHS-B15A-SUB-6-8
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	8.5		8.3		%		2	20
Percent Solids	91.5		91.7		%		0.1	20

GC Semi VOA

Analysis Batch: 216742

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68095-1	SSHS-B625A-SUB-10-12	Total/NA	Solid	8082A	216860
180-68095-7	SSHS-B329A-SUB-10-12	Total/NA	Solid	8082A	216860
180-68095-8	SSHS-B632A-SUB-4-6	Total/NA	Solid	8082A	216860
180-68095-9	SSHS-B632A-SUB-6-8	Total/NA	Solid	8082A	216860
180-68095-10	SSHS-B632A-SUB-12-14	Total/NA	Solid	8082A	216860
180-68095-11	SSHS-B632A-SUB-8-10	Total/NA	Solid	8082A	216860
180-68095-12	PS-FD-2	Total/NA	Solid	8082A	216860
180-68095-13	SSHS-B632A-SUB-10-12	Total/NA	Solid	8082A	216860
180-68095-14	SSHS-B803A-SUB-8-10	Total/NA	Solid	8082A	216860
180-68095-15	SSHS-B803A-SUB-10-12	Total/NA	Solid	8082A	216860
180-68095-16	SSHS-B804A-SUB-4-6	Total/NA	Solid	8082A	216860
180-68095-23	PS-FD-3	Total/NA	Solid	8082A	216860
180-68095-24	SSHS-B248A-SUB-4-6	Total/NA	Solid	8082A	216860
180-68095-25	SSHS-B15A-SUB-4-6	Total/NA	Solid	8082A	216860
180-68095-26	SSHS-B15A-SUB-6-8	Total/NA	Solid	8082A	216860
180-68095-27	SSHS-B247A-SUB-4-6	Total/NA	Solid	8082A	216860
MB 180-216806/1-C	Method Blank	Total/NA	Solid	8082A	216860
LCS 180-216806/2-C	Lab Control Sample	Total/NA	Solid	8082A	216860
180-68095-9 MS	SSHS-B632A-SUB-6-8	Total/NA	Solid	8082A	216860
180-68095-9 MSD	SSHS-B632A-SUB-6-8	Total/NA	Solid	8082A	216860

Prep Batch: 216806

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68095-1	SSHS-B625A-SUB-10-12	Total/NA	Solid	3541	
180-68095-7	SSHS-B329A-SUB-10-12	Total/NA	Solid	3541	
180-68095-8	SSHS-B632A-SUB-4-6	Total/NA	Solid	3541	
180-68095-9	SSHS-B632A-SUB-6-8	Total/NA	Solid	3541	
180-68095-10	SSHS-B632A-SUB-12-14	Total/NA	Solid	3541	
180-68095-11	SSHS-B632A-SUB-8-10	Total/NA	Solid	3541	
180-68095-12	PS-FD-2	Total/NA	Solid	3541	
180-68095-13	SSHS-B632A-SUB-10-12	Total/NA	Solid	3541	
180-68095-14	SSHS-B803A-SUB-8-10	Total/NA	Solid	3541	
180-68095-15	SSHS-B803A-SUB-10-12	Total/NA	Solid	3541	
180-68095-16	SSHS-B804A-SUB-4-6	Total/NA	Solid	3541	
180-68095-23	PS-FD-3	Total/NA	Solid	3541	
180-68095-24	SSHS-B248A-SUB-4-6	Total/NA	Solid	3541	
180-68095-25	SSHS-B15A-SUB-4-6	Total/NA	Solid	3541	
180-68095-26	SSHS-B15A-SUB-6-8	Total/NA	Solid	3541	
180-68095-27	SSHS-B247A-SUB-4-6	Total/NA	Solid	3541	
MB 180-216806/1-C	Method Blank	Total/NA	Solid	3541	
LCS 180-216806/2-C	Lab Control Sample	Total/NA	Solid	3541	
180-68095-9 MS	SSHS-B632A-SUB-6-8	Total/NA	Solid	3541	
180-68095-9 MSD	SSHS-B632A-SUB-6-8	Total/NA	Solid	3541	

Cleanup Batch: 216859

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68095-1	SSHS-B625A-SUB-10-12	Total/NA	Solid	3665A	216806
180-68095-7	SSHS-B329A-SUB-10-12	Total/NA	Solid	3665A	216806
180-68095-8	SSHS-B632A-SUB-4-6	Total/NA	Solid	3665A	216806
180-68095-9	SSHS-B632A-SUB-6-8	Total/NA	Solid	3665A	216806
180-68095-10	SSHS-B632A-SUB-12-14	Total/NA	Solid	3665A	216806

GC Semi VOA (Continued)

Cleanup Batch: 216859 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68095-11	SSHS-B632A-SUB-8-10	Total/NA	Solid	3665A	216806
180-68095-12	PS-FD-2	Total/NA	Solid	3665A	216806
180-68095-13	SSHS-B632A-SUB-10-12	Total/NA	Solid	3665A	216806
180-68095-14	SSHS-B803A-SUB-8-10	Total/NA	Solid	3665A	216806
180-68095-15	SSHS-B803A-SUB-10-12	Total/NA	Solid	3665A	216806
180-68095-16	SSHS-B804A-SUB-4-6	Total/NA	Solid	3665A	216806
180-68095-23	PS-FD-3	Total/NA	Solid	3665A	216806
180-68095-24	SSHS-B248A-SUB-4-6	Total/NA	Solid	3665A	216806
180-68095-25	SSHS-B15A-SUB-4-6	Total/NA	Solid	3665A	216806
180-68095-26	SSHS-B15A-SUB-6-8	Total/NA	Solid	3665A	216806
180-68095-27	SSHS-B247A-SUB-4-6	Total/NA	Solid	3665A	216806
MB 180-216806/1-C	Method Blank	Total/NA	Solid	3665A	216806
LCS 180-216806/2-C	Lab Control Sample	Total/NA	Solid	3665A	216806
180-68095-9 MS	SSHS-B632A-SUB-6-8	Total/NA	Solid	3665A	216806
180-68095-9 MSD	SSHS-B632A-SUB-6-8	Total/NA	Solid	3665A	216806

Cleanup Batch: 216860

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68095-1	SSHS-B625A-SUB-10-12	Total/NA	Solid	3660B	216859
180-68095-7	SSHS-B329A-SUB-10-12	Total/NA	Solid	3660B	216859
180-68095-8	SSHS-B632A-SUB-4-6	Total/NA	Solid	3660B	216859
180-68095-9	SSHS-B632A-SUB-6-8	Total/NA	Solid	3660B	216859
180-68095-10	SSHS-B632A-SUB-12-14	Total/NA	Solid	3660B	216859
180-68095-11	SSHS-B632A-SUB-8-10	Total/NA	Solid	3660B	216859
180-68095-12	PS-FD-2	Total/NA	Solid	3660B	216859
180-68095-13	SSHS-B632A-SUB-10-12	Total/NA	Solid	3660B	216859
180-68095-14	SSHS-B803A-SUB-8-10	Total/NA	Solid	3660B	216859
180-68095-15	SSHS-B803A-SUB-10-12	Total/NA	Solid	3660B	216859
180-68095-16	SSHS-B804A-SUB-4-6	Total/NA	Solid	3660B	216859
180-68095-23	PS-FD-3	Total/NA	Solid	3660B	216859
180-68095-24	SSHS-B248A-SUB-4-6	Total/NA	Solid	3660B	216859
180-68095-25	SSHS-B15A-SUB-4-6	Total/NA	Solid	3660B	216859
180-68095-26	SSHS-B15A-SUB-6-8	Total/NA	Solid	3660B	216859
180-68095-27	SSHS-B247A-SUB-4-6	Total/NA	Solid	3660B	216859
MB 180-216806/1-C	Method Blank	Total/NA	Solid	3660B	216859
LCS 180-216806/2-C	Lab Control Sample	Total/NA	Solid	3660B	216859
180-68095-9 MS	SSHS-B632A-SUB-6-8	Total/NA	Solid	3660B	216859
180-68095-9 MSD	SSHS-B632A-SUB-6-8	Total/NA	Solid	3660B	216859

General Chemistry

Analysis Batch: 216855

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68095-1	SSHS-B625A-SUB-10-12	Total/NA	Solid	2540G	
180-68095-7	SSHS-B329A-SUB-10-12	Total/NA	Solid	2540G	
180-68095-8	SSHS-B632A-SUB-4-6	Total/NA	Solid	2540G	
180-68095-9	SSHS-B632A-SUB-6-8	Total/NA	Solid	2540G	
180-68095-10	SSHS-B632A-SUB-12-14	Total/NA	Solid	2540G	
180-68095-11	SSHS-B632A-SUB-8-10	Total/NA	Solid	2540G	
180-68095-12	PS-FD-2	Total/NA	Solid	2540G	

General Chemistry (Continued)

Analysis Batch: 216855 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68095-13	SSHS-B632A-SUB-10-12	Total/NA	Solid	2540G	
180-68095-14	SSHS-B803A-SUB-8-10	Total/NA	Solid	2540G	
180-68095-15	SSHS-B803A-SUB-10-12	Total/NA	Solid	2540G	
180-68095-16	SSHS-B804A-SUB-4-6	Total/NA	Solid	2540G	
180-68095-23	PS-FD-3	Total/NA	Solid	2540G	
180-68095-24	SSHS-B248A-SUB-4-6	Total/NA	Solid	2540G	
180-68095-1 DU	SSHS-B625A-SUB-10-12	Total/NA	Solid	2540G	
180-68095-15 DU	SSHS-B803A-SUB-10-12	Total/NA	Solid	2540G	

Analysis Batch: 216865

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68095-25	SSHS-B15A-SUB-4-6	Total/NA	Solid	2540G	
180-68095-26	SSHS-B15A-SUB-6-8	Total/NA	Solid	2540G	
180-68095-27	SSHS-B247A-SUB-4-6	Total/NA	Solid	2540G	
180-68095-26 DU	SSHS-B15A-SUB-6-8	Total/NA	Solid	2540G	

TestAmerica Pittsburgh
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Pittsburgh, PA 15238
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180-66095 Chain of Custody

Chain of Custody Record

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THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

m: ☐ DW ☐ NPDES ☐ RCRA ☑ Other:

Client Con	Krasnopoler	Site Contact: Jay Thompson	Date: 7/11/17	COC No:
Geosyntec Consultants	Tel/Fax:	Lab Contact: Dave Dunlap	Carrier: FedEx	2 of 3 COCs
10211 Wincopin Circle, 4th Floor	Analysis Turnaround Time			Sampler: JT
Columbia, MD 21044	☐ CALENDAR DAYS ☑ WORKING DAYS			For Lab Use Only:
410-381-4333 Phone	TAT if different from Below			Walk-in Client:
410-381-4499 FAX	☐ 2 weeks			Lab Sampling:
Project Name: Former Sperry Remington Site - North	☐ 1 week			Job / SDG No.:
Site: Elmira	☐ 2 days			
P O # MN0832B	☑ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	PCBs - 8082A	VOCs - 8260C	TCLP - TAL metals 6010C - TAL metals	Sample Specific Notes:
SS HS-B625A-SB-10-12	7/11/17	0834	C	S	2	N	N	X			
SS HS-B724A-SB-2-4		0950	G	S	4	N			X		1-Tellacore Kit
SS HS-B724A-SB-4-6		0950	G	S	4	N			X		1 Tellacore kit
SS HS-B724A-SB-6-8		0955	G	S	4	N			X		1 tellacore kit
SS HS-B724A-SB-8-10		0957	G	S	4	N			X		1 tellacore kit
SS HS-B704A-SB-8-10		1035	G	S	1	N				X	HOLD
SS HS-B329A-SB-10-12		1055	C	S	2	N		X			
SS HS-BC32A-SB-4-6		1110	C	S	2	N	N	X			
SS HS-B632A-SB-6-8		1110	C	S	4	N	Y	X			MS-MSD-1
SS HS-BC32A-SB-12-14		1130	C	S	2	N	N	X			
SS HS-B632A-SB-8-10		1141	C	S	2	N	N	X			
DS-FD-2		X	C	S	2	N	N	X			

RUSH
analyzing TCLP Pb with total Pb on hold as per Aron Kremepolsky DAD 7/12/17

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd: _____ Corr'd: _____ | Therm ID No.: _____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Jay Thompson	Geosyntec	7/11/17 1900		TA	7/12/17 0820
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Form No. CA-C-WI-002, Rev. 4.3, dated 12/05/2013

TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
phone 412.963.7058 fax 412.963.2468

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☑ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Aron Krasnopoler	Site Contact: Jay Thompson	Date: 7/11/17	COC No:
Geosyntec Consultants	Tel/Fax: 401-381-4333	Lab Contact: Dave Dunlap	Carrier: FedEx	2 of 3 COCs
10211 Wincopin Circle, 4th Floor	Analysis Turnaround Time			Sampler:
Columbia, MD 21044	☐ CALENDAR DAYS ☑ WORKING DAYS			For Lab Use Only:
410-381-4333 Phone	TAT if different from Below			Walk-in Client:
410-381-4499 FAX	☐ 2 weeks			Lab Sampling:
Project Name: Former Sperry Remington Site - North	☐ 1 week			
Site: Elmira	☐ 2 days			Job / SDG No.:
P O # MN0832B	☑ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	PCBs - 8082A	VOCs - 8260C	TCLP - Lead	Sample Specific Notes:
SSHS-B632A-SUB-6-12	7/11/17	1141	C	S	2	N	N	X			
SSHS-B803A-SUB-8-10		1215	C	S	2	N	N	X			
SSHS-B803A-SUB-10-12		1215	C	S	2	N	N	X			
SSHS-B804A-SUB-4-6		1320	C	S	2	N	N	X			
SSHS-B679A-SUB-6-8		1345	G	S	4	N	N		X		Terracore Kit
SSHS-B679A-SUB-8-10		1345	G	S	4	N	N		X		"
SSHS-B679A-SUB-10-12		1415	G	S	4	N	N		X		"
SSHS-B679A-SUB-12-14		1415	G	S	4	N	N		X		"
SSHS-B679A-SUB-14-16		1435	G	S	4	N	N		X		"
PS-FD-4		X	G	S	4	N	N		X		"
PS-FD-3		X	C	S	2	N	N	X			
SSHS-B248A-SUB-4-6	7/11/17	1618	C	S	2	N	N	X			

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd: _____ Corr'd: _____ Therm ID No.: _____		
Relinquished by: Jay Thompson	Company: Geosyntec	Date/Time: 7/11/17 1900	Received by:	Company: TA	Date/Time: 7/12/17 0820
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Form No. CA-C-WI-002, Rev. 4.3, dated 12/05/2013

12

TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
phone 412.963.7058 fax 412.963.2468

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☑ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Aron Krasnopoler	Site Contact: Jay Thompson	Date: 7/11/17	COC No:
Geosyntec Consultants	Tel/Fax: 401-381-4333	Lab Contact: Dave Dunlap	Carrier: FedEx	3 of 3 COCs
10211 Wincopin Circle, 4th Floor	Analysis Turnaround Time			Sampler: JT
Columbia, MD 21044	☐ CALENDAR DAYS ☑ WORKING DAYS			For Lab Use Only:
410-381-4333 Phone	TAT if different from Below			Walk-in Client:
410-381-4499 FAX	☐ 2 weeks			Lab Sampling:
Project Name: Former Sperry Remington Site - North	☐ 1 week			Job / SDG No.:
Site: Elmira	☐ 2 days			
P O # MN0832B	☑ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	PCBs - 8082A	VOCs - 8260C	TCLP - Pb Hg	6010C - Pb	1045 - 8260C - 2-CE	Sample Specific Notes:
SS HS-B15A-SUB 2-4-6	7/11/17	1635	C	S	3	N	N	X		X	X		Analyze PCBs & TCLP Hgs Hold 6010C
SS HS-B15A-SUB-6-8	↓	1635	C	S	2	N	N	X					
SS HS-B24A-SUB-4-6	7/11/17	1625	C	S	2	N	N	X					
Trip Blank	7/11/17	N/A	N/A	N/A	2							X	

analyzing PCB, TCLP Pb and total Pb on hold
JT 7/11/17 espm
Aron Krasnopoler 7/12/17

sample lube ID is BZ47A
DEP 7/12/17

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd: _____ Corr'd: _____		Therm ID No.: _____
Relinquished by: Jay Thompson	Company: Geosyntec	Date/Time: 7/11/17 1900	Received by:	Company: TA	Date/Time: 7/12/17 0820
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Form No. CA-C-WI-002, Rev. 4.3, dated 12/05/2013

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 180-68095-1

Login Number: 68095
List Number: 1
Creator: Dunlap, David A

List Source: TestAmerica Pittsburgh

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	False	trip blank
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

TestAmerica Job ID: 180-68096-1
Client Project/Site: Former Sperry Remington Site - North IRM
Revision: 1

For:
Geosyntec Consultants, Inc.
10211 Wincopin Circle
4'th Floor
Columbia, Maryland 21044

Attn: Mr. Aron Krasnopoler

Authorized for release by:
7/27/2017 9:45:40 AM

David Dunlap, Senior Project Manager
(412)963-2432
david.dunlap@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Job ID: 180-68096-1

Laboratory: TestAmerica Pittsburgh

Narrative

Job Narrative
180-68096-1

Comments
This is a revised report. At the request of the client, 2,4-dinitrotoluene, hexachlorobutadiene, hexachloroethane, nitrobenzene, pyridine, 2,4,5-trichlorophenol, and 2,4,6-trichlorophenol are now reported in the semivolatiles analysis.

Method(s) 8270D LL: The continuing calibration verification (CCV) associated with batch 180-216940 recovered above the upper control limit for pyridine. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Receipt
The samples were received on 7/12/2017 9:10 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 1.2º C, 2.1º C and 3.1º C.

Receipt Exceptions
The following volatile samples were analyzed with significant headspace in two out of two voa vials: TRIP BLANK 1 (180-68096-37) and TRIP BLANK 2 (180-68096-38). Significant headspace is defined as a bubble greater than 6 mm in diameter.

GC/MS VOA
Method(s) 8260C: The continuing calibration verification (CCV) analyzed in batch 180-217186 was outside the method criteria for the following analyte: Carbon Tetrachloride. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte is considered estimated.

Method(s) 8260C: The continuing calibration verification (CCV) analyzed in batch 180-217056 was outside the method criteria for the following analyte(s): Carbon Tetrachloride. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method(s) 8260C: The continuing calibration verification (CCV) analyzed in batch 180-217200 was outside the method criteria for the following analyte: 2-Butanone (MEK) and Acetone. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte is considered estimated.

Method(s) 8260C: The following analyte recovered outside control limits for the LCS associated with analytical batch 180-217200: n-Butylbenzene. This is not indicative of a systematic control problem because these were random marginal exceedances. Qualified results have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method(s) 8270D LL: The following samples was diluted to bring the concentration of target analytes within the calibration range (extract viscous, dark in color): W2, S5 C 71117 (180-68096-18) and W3, S1, C 71117 (180-68096-23). Elevated reporting limits (RLs) are provided.

Method(s) 8270D LL: The following samples was diluted due to the nature of the sample matrix (extract viscous, dark in color): W1, S5, C 71117 (180-68096-3), W2, S1, C 71117 (180-68096-6), W2, S2, C 71117 (180-68096-9), W2, S3, C 71117 (180-68096-12), W2, S4, C 71117 (180-68096-15) and DUP-4 (180-68096-22). This is the lowest dilution possible for these samples. Elevated reporting limits (RLs) are provided.

Method(s) 8270D LL: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and RPD's for preparation batch 180-216880 and analytical batch 180-216940 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the

Job ID: 180-68096-1 (Continued)

Laboratory: TestAmerica Pittsburgh (Continued)

associated laboratory control sample (LCS) recovery was within acceptance limits. They are at a 20x dilution due to matrix.

Method(s) 8270D LL: The continuing calibration verification (CCV) associated with batch 180-216940 recovered above the upper control limit for Pentachlorophenol. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method(s) 8270D LL: The following samples was diluted due to the nature of the sample matrix (extract viscous, dark in color): W3, S2, C 71117 (180-68096-26), W3, S3, C 71117 (180-68096-29), W3, S4, C 71117 (180-68096-32) and W3, S5, C 71117 (180-68096-36). This is the lowest dilution possible for these samples. Elevated reporting limits (RLs) are provided.

Method(s) 8270D LL: The continuing calibration verification (CCV) associated with batch 180-217242 recovered above the upper control limit for Pentachlorophenol. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method(s) 8270D LL: The continuing calibration verification (CCV) analyzed in batch 180-217242 was outside the method criteria for the following analyte(s): Benzo[g,h,i]perylene was >20% low. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals
Method(s) 6010C: The serial dilution performed for the following sample associated with prep batch 216920 was outside the control limits for manganese and zinc: W2, S1, C 71117 (180-68096-6)

Method(s) 6010C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for prep batch 216920 were outside the control limits for copper and zinc. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) 6010C: The matrix spike / matrix spike duplicate (MS/MSD) precision for prep batch 216920 was outside the control limits for manganese. Sample matrix interference and/or non-homogeneity are suspected.

Method(s) 7471B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for 217097 were outside the control limits for mercury. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Definitions/Glossary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68096-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	LCS or LCSD is outside acceptance limits.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F2	MS/MSD RPD exceeds control limits
F1	MS and/or MSD Recovery is outside acceptance limits.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

General Chemistry

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc. TestAmerica Job ID: 180-68096-1
Project/Site: Former Sperry Remington Site - North IRM

Laboratory: TestAmerica Pittsburgh

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	11182	03-31-18

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
2540G		Solid	Percent Moisture
2540G		Solid	Percent Solids
8270D LL	3541	Solid	1,4-Dioxane

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68096-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-68096-1	W1, S5, A 71117	Solid	07/11/17 10:15	07/12/17 09:10
180-68096-2	W1, S5, B 71117	Solid	07/11/17 10:20	07/12/17 09:10
180-68096-3	W1, S5, C 71117	Solid	07/11/17 10:25	07/12/17 09:10
180-68096-4	W2, S1, A 71117	Solid	07/11/17 10:45	07/12/17 09:10
180-68096-5	W2, S1, B 71117	Solid	07/11/17 10:50	07/12/17 09:10
180-68096-6	W2, S1, C 71117	Solid	07/11/17 10:55	07/12/17 09:10
180-68096-7	W2, S2, A 71117	Solid	07/11/17 11:15	07/12/17 09:10
180-68096-8	W2, S2, B 71117	Solid	07/11/17 11:20	07/12/17 09:10
180-68096-9	W2, S2, C 71117	Solid	07/11/17 11:25	07/12/17 09:10
180-68096-10	W2, S3, A 71117	Solid	07/11/17 11:45	07/12/17 09:10
180-68096-11	W2, S3, B 71117	Solid	07/11/17 11:50	07/12/17 09:10
180-68096-12	W2, S3, C 71117	Solid	07/11/17 11:55	07/12/17 09:10
180-68096-13	W2, S4, A 71117	Solid	07/11/17 12:15	07/12/17 09:10
180-68096-14	W2, S4, B 71117	Solid	07/11/17 12:20	07/12/17 09:10
180-68096-15	W2, S4, C 71117	Solid	07/11/17 12:25	07/12/17 09:10
180-68096-16	W2, S5 A 71117	Solid	07/11/17 12:45	07/12/17 09:10
180-68096-17	W2, S5 B 71117	Solid	07/11/17 12:50	07/12/17 09:10
180-68096-18	W2, S5 C 71117	Solid	07/11/17 12:55	07/12/17 09:10
180-68096-19	W3, S1 A 71117	Solid	07/11/17 13:15	07/12/17 09:10
180-68096-20	W3, S1 B 71117	Solid	07/11/17 13:20	07/12/17 09:10
180-68096-21	DUP-3	Solid	07/11/17 00:00	07/12/17 09:10
180-68096-22	DUP-4	Solid	07/11/17 00:00	07/12/17 09:10
180-68096-23	W3, S1, C 71117	Solid	07/11/17 13:25	07/12/17 09:10
180-68096-24	W3, S2, A 71117	Solid	07/11/17 13:45	07/12/17 09:10
180-68096-25	W3, S2, B 71117	Solid	07/11/17 13:50	07/12/17 09:10
180-68096-26	W3, S2, C 71117	Solid	07/11/17 13:55	07/12/17 09:10
180-68096-27	W3, S3, A 71117	Solid	07/11/17 14:15	07/12/17 09:10
180-68096-28	W3, S3, B 71117	Solid	07/11/17 14:20	07/12/17 09:10
180-68096-29	W3, S3, C 71117	Solid	07/11/17 14:25	07/12/17 09:10
180-68096-30	W3, S4, A 71117	Solid	07/11/17 14:45	07/12/17 09:10
180-68096-31	W3, S4, B 71117	Solid	07/11/17 14:50	07/12/17 09:10
180-68096-32	W3, S4, C 71117	Solid	07/11/17 14:55	07/12/17 09:10
180-68096-33	DUP-5	Solid	07/11/17 00:00	07/12/17 09:10
180-68096-34	W3, S5, A 71117	Solid	07/11/17 15:15	07/12/17 09:10
180-68096-35	W3, S5, B 71117	Solid	07/11/17 15:20	07/12/17 09:10
180-68096-36	W3, S5, C 71117	Solid	07/11/17 15:25	07/12/17 09:10
180-68096-37	TRIP BLANK 1	Water	07/11/17 00:00	07/12/17 09:10
180-68096-38	TRIP BLANK 2	Water	07/11/17 00:00	07/12/17 09:10

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68096-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL PIT
8260C	Volatile Organic Compounds (GC/MS)	SW846	TAL PIT
8270D LL	Semivolatile Organic Compounds by GC/MS - Low Level	SW846	TAL PIT
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL PIT
6010C	Metals (ICP)	SW846	TAL PIT
7471B	Mercury (CVAA)	SW846	TAL PIT
2540G	SM 2540G	SM22	TAL PIT
9014	Cyanide	SW846	TAL PIT

Protocol References:

SM22 = SM22

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68096-1

Client Sample ID: W1, S5, A 71117
Date Collected: 07/11/17 10:15
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216865	07/12/17 15:57	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W1, S5, A 71117
Date Collected: 07/11/17 10:15
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-1
Matrix: Solid
Percent Solids: 89.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.2467 g	5 mL	216904	07/13/17 06:04	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	216893	07/13/17 12:46	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W1, S5, B 71117
Date Collected: 07/11/17 10:20
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216865	07/12/17 15:57	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W1, S5, B 71117
Date Collected: 07/11/17 10:20
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-2
Matrix: Solid
Percent Solids: 89.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.2872 g	5 mL	216904	07/13/17 06:04	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	216893	07/13/17 13:08	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W1, S5, C 71117
Date Collected: 07/11/17 10:25
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216865	07/12/17 15:57	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W1, S5, C 71117
Date Collected: 07/11/17 10:25
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-3
Matrix: Solid
Percent Solids: 90.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.1 g	0.5 mL	216880	07/13/17 03:37	BAP	TAL PIT

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68096-1

Client Sample ID: W1, S5, C 71117

Lab Sample ID: 180-68096-3
Date Collected: 07/11/17 10:25
Matrix: Solid
Date Received: 07/12/17 09:10
Percent Solids: 90.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8270D LL		10	1 mL	1 mL	216940	07/13/17 19:58	DLF	TAL PIT
	Instrument ID: CH71									
Total/NA	Prep	3541			15.3 g	20.0 mL	216879	07/13/17 03:34	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	216929	07/13/17 09:31	DFE	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	216930	07/13/17 09:32	DFE	TAL PIT
Total/NA	Analysis	8082A		1			217035	07/14/17 13:47	JMO	TAL PIT
	Instrument ID: CHGC8									
Total/NA	Prep	3050B			0.99 g	100 mL	216920	07/13/17 09:05	CRM	TAL PIT
Total/NA	Analysis	6010C		1			217205	07/14/17 12:51	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.61 g	100 mL	217097	07/14/17 11:17	RJR	TAL PIT
Total/NA	Analysis	7471B		1			217252	07/17/17 09:11	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.02 g	50 mL	216972	07/13/17 12:02	JAS	TAL PIT
Total/NA	Analysis	9014		1			217087	07/13/17 15:56	JAS	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: W2, S1, A 71117

Lab Sample ID: 180-68096-4
Date Collected: 07/11/17 10:45
Matrix: Solid
Date Received: 07/12/17 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216865	07/12/17 15:57	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W2, S1, A 71117

Lab Sample ID: 180-68096-4
Date Collected: 07/11/17 10:45
Matrix: Solid
Date Received: 07/12/17 09:10
Percent Solids: 90.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.3324 g	5 mL	216904	07/13/17 06:04	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	216893	07/13/17 09:22	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W2, S1, B 71117

Lab Sample ID: 180-68096-5
Date Collected: 07/11/17 10:50
Matrix: Solid
Date Received: 07/12/17 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216865	07/12/17 15:57	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68096-1

Client Sample ID: W2, S1, B 71117
Date Collected: 07/11/17 10:50
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-5
Matrix: Solid
Percent Solids: 91.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.182 g	5 mL	216904	07/13/17 06:04	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	216893	07/13/17 13:31	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W2, S1, C 71117
Date Collected: 07/11/17 10:55
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216865	07/12/17 15:57	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W2, S1, C 71117
Date Collected: 07/11/17 10:55
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-6
Matrix: Solid
Percent Solids: 89.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.5 g	0.5 mL	216880	07/13/17 03:37	BAP	TAL PIT
Total/NA	Analysis	8270D LL		20	1 mL	1 mL	216940	07/13/17 18:37	DLF	TAL PIT
	Instrument ID: CH71									
Total/NA	Prep	3541			15.1 g	20.0 mL	216879	07/13/17 03:34	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	216929	07/13/17 09:31	DFE	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	216930	07/13/17 09:32	DFE	TAL PIT
Total/NA	Analysis	8082A		1			217035	07/14/17 14:07	JMO	TAL PIT
	Instrument ID: CHGC8									
Total/NA	Prep	3050B			1.01 g	100 mL	216920	07/13/17 09:05	CRM	TAL PIT
Total/NA	Analysis	6010C		1			217205	07/14/17 12:57	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.62 g	100 mL	217097	07/14/17 11:17	RJR	TAL PIT
Total/NA	Analysis	7471B		1			217252	07/17/17 09:13	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.05 g	50 mL	216972	07/13/17 12:02	JAS	TAL PIT
Total/NA	Analysis	9014		1			217087	07/13/17 15:58	JAS	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: W2, S2, A 71117
Date Collected: 07/11/17 11:15
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216865	07/12/17 15:57	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W2, S2, A 71117
Date Collected: 07/11/17 11:15
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-7
Matrix: Solid
Percent Solids: 88.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.9331 g	5 mL	216904	07/13/17 06:04	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	216893	07/13/17 13:54	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W2, S2, B 71117
Date Collected: 07/11/17 11:20
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216865	07/12/17 15:57	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W2, S2, B 71117
Date Collected: 07/11/17 11:20
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-8
Matrix: Solid
Percent Solids: 90.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.7244 g	5 mL	216904	07/13/17 06:04	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	216893	07/13/17 14:16	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W2, S2, C 71117
Date Collected: 07/11/17 11:25
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216865	07/12/17 15:57	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W2, S2, C 71117
Date Collected: 07/11/17 11:25
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-9
Matrix: Solid
Percent Solids: 88.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.2 g	0.5 mL	216880	07/13/17 03:37	BAP	TAL PIT
Total/NA	Analysis	8270D LL		5	1 mL	1 mL	216940	07/13/17 20:25	DLF	TAL PIT
	Instrument ID: CH71									
Total/NA	Prep	3541			15.2 g	20.0 mL	216879	07/13/17 03:34	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	216929	07/13/17 09:31	DFE	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	216930	07/13/17 09:32	DFE	TAL PIT
Total/NA	Analysis	8082A		1			217035	07/14/17 15:48	JMO	TAL PIT
	Instrument ID: CHGC8									
Total/NA	Prep	3050B			0.98 g	100 mL	216920	07/13/17 09:05	CRM	TAL PIT

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68096-1

Client Sample ID: W2, S2, C 71117
Date Collected: 07/11/17 11:25
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-9
Matrix: Solid
Percent Solids: 88.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	6010C		1			217205	07/14/17 13:22	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.64 g	100 mL	217097	07/14/17 11:17	RJR	TAL PIT
Total/NA	Analysis	7471B		1			217252	07/17/17 09:19	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.05 g	50 mL	216972	07/13/17 12:02	JAS	TAL PIT
Total/NA	Analysis	9014		1			217087	07/13/17 16:07	JAS	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: W2, S3, A 71117
Date Collected: 07/11/17 11:45
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216865	07/12/17 15:57	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W2, S3, A 71117
Date Collected: 07/11/17 11:45
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-10
Matrix: Solid
Percent Solids: 90.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3.4758 g	5 mL	216904	07/13/17 06:04	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	216893	07/13/17 14:39	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W2, S3, B 71117
Date Collected: 07/11/17 11:50
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216865	07/12/17 15:57	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W2, S3, B 71117
Date Collected: 07/11/17 11:50
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-11
Matrix: Solid
Percent Solids: 93.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.2861 g	5 mL	216904	07/13/17 06:04	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	216893	07/13/17 15:02	KLG	TAL PIT
	Instrument ID: CHHP3									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68096-1

Client Sample ID: W2, S3, C 71117
Date Collected: 07/11/17 11:55
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216865	07/12/17 15:57	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W2, S3, C 71117
Date Collected: 07/11/17 11:55
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-12
Matrix: Solid
Percent Solids: 91.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.4 g	0.5 mL	216880	07/13/17 03:37	BAP	TAL PIT
Total/NA	Analysis	8270D LL		10	1 mL	1 mL	216940	07/13/17 20:52	DLF	TAL PIT
	Instrument ID: CH71									
Total/NA	Prep	3541			15.0 g	20.0 mL	216879	07/13/17 03:34	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	216929	07/13/17 09:31	DFE	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	216930	07/13/17 09:32	DFE	TAL PIT
Total/NA	Analysis	8082A		1			217035	07/14/17 16:08	JMO	TAL PIT
	Instrument ID: CHGC8									
Total/NA	Prep	3050B			1.01 g	100 mL	216920	07/13/17 09:05	CRM	TAL PIT
Total/NA	Analysis	6010C		1			217205	07/14/17 13:37	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.66 g	100 mL	217097	07/14/17 11:17	RJR	TAL PIT
Total/NA	Analysis	7471B		1			217252	07/17/17 09:21	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.04 g	50 mL	216972	07/13/17 12:02	JAS	TAL PIT
Total/NA	Analysis	9014		1			217087	07/13/17 16:08	JAS	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: W2, S4, A 71117
Date Collected: 07/11/17 12:15
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216865	07/12/17 15:57	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W2, S4, A 71117
Date Collected: 07/11/17 12:15
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-13
Matrix: Solid
Percent Solids: 90.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.8715 g	5 mL	216904	07/13/17 06:04	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	216893	07/13/17 15:24	KLG	TAL PIT
	Instrument ID: CHHP3									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68096-1

Client Sample ID: W2, S4, B 71117
Date Collected: 07/11/17 12:20
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216865	07/12/17 15:57	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W2, S4, B 71117
Date Collected: 07/11/17 12:20
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-14
Matrix: Solid
Percent Solids: 90.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.6002 g	5 mL	216904	07/13/17 06:04	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	216893	07/13/17 15:47	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W2, S4, C 71117
Date Collected: 07/11/17 12:25
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-15
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216865	07/12/17 15:57	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W2, S4, C 71117
Date Collected: 07/11/17 12:25
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-15
Matrix: Solid
Percent Solids: 91.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	0.5 mL	216880	07/13/17 03:37	BAP	TAL PIT
Total/NA	Analysis	8270D LL		5	1 mL	1 mL	216940	07/13/17 21:20	DLF	TAL PIT
	Instrument ID: CH71									
Total/NA	Prep	3541			15.0 g	20.0 mL	216879	07/13/17 03:34	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	216929	07/13/17 09:31	DFE	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	216930	07/13/17 09:32	DFE	TAL PIT
Total/NA	Analysis	8082A		1			217035	07/14/17 16:28	JMO	TAL PIT
	Instrument ID: CHGC8									
Total/NA	Prep	3050B			1.05 g	100 mL	216920	07/13/17 09:05	CRM	TAL PIT
Total/NA	Analysis	6010C		1			217205	07/14/17 13:42	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.61 g	100 mL	217097	07/14/17 11:17	RJR	TAL PIT
Total/NA	Analysis	7471B		1			217252	07/17/17 09:27	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.04 g	50 mL	216972	07/13/17 12:02	JAS	TAL PIT
Total/NA	Analysis	9014		1			217087	07/13/17 16:10	JAS	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: W2, S5 A 71117
Date Collected: 07/11/17 12:45
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-16
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216865	07/12/17 15:57	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W2, S5 A 71117
Date Collected: 07/11/17 12:45
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-16
Matrix: Solid
Percent Solids: 91.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2.5438 g	5 mL	216904	07/13/17 06:04	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	216893	07/13/17 16:10	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W2, S5 B 71117
Date Collected: 07/11/17 12:50
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216865	07/12/17 15:57	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W2, S5 B 71117
Date Collected: 07/11/17 12:50
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-17
Matrix: Solid
Percent Solids: 91.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.878 g	5 mL	216904	07/13/17 06:04	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	216893	07/13/17 16:33	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W2, S5 C 71117
Date Collected: 07/11/17 12:55
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-18
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216870	07/12/17 16:42	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W2, S5 C 71117
Date Collected: 07/11/17 12:55
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-18
Matrix: Solid
Percent Solids: 91.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.1 g	0.5 mL	216880	07/13/17 03:37	BAP	TAL PIT

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68096-1

Client Sample ID: W2, S5 C 71117
Date Collected: 07/11/17 12:55
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-18
Matrix: Solid
Percent Solids: 91.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8270D LL		5	1 mL	1 mL	216940	07/13/17 21:47	DLF	TAL PIT
	Instrument ID: CH71									
Total/NA	Prep	3541			15.4 g	20.0 mL	216879	07/13/17 03:34	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	216929	07/13/17 09:31	DFE	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	216930	07/13/17 09:32	DFE	TAL PIT
Total/NA	Analysis	8082A		1			217035	07/14/17 16:48	JMO	TAL PIT
	Instrument ID: CHGC8									
Total/NA	Prep	3050B			1.05 g	100 mL	216920	07/13/17 09:05	CRM	TAL PIT
Total/NA	Analysis	6010C		1			217205	07/14/17 13:48	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.59 g	100 mL	217097	07/14/17 11:17	RJR	TAL PIT
Total/NA	Analysis	7471B		1			217252	07/17/17 09:29	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.03 g	50 mL	216972	07/13/17 12:02	JAS	TAL PIT
Total/NA	Analysis	9014		1			217087	07/13/17 16:12	JAS	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: W3, S1 A 71117
Date Collected: 07/11/17 13:15
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-19
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216870	07/12/17 16:42	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W3, S1 A 71117
Date Collected: 07/11/17 13:15
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-19
Matrix: Solid
Percent Solids: 91.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.826 g	5 mL	217187	07/16/17 09:00	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	217186	07/16/17 11:57	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W3, S1 B 71117
Date Collected: 07/11/17 13:20
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-20
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216870	07/12/17 16:42	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W3, S1 B 71117

Lab Sample ID: 180-68096-20
Date Collected: 07/11/17 13:20
Matrix: Solid
Date Received: 07/12/17 09:10
Percent Solids: 90.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3.7059 g	5 mL	217187	07/16/17 09:00	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	217186	07/16/17 19:32	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: DUP-3

Lab Sample ID: 180-68096-21
Date Collected: 07/11/17 00:00
Matrix: Solid
Date Received: 07/12/17 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216870	07/12/17 16:42	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: DUP-3

Lab Sample ID: 180-68096-21
Date Collected: 07/11/17 00:00
Matrix: Solid
Date Received: 07/12/17 09:10
Percent Solids: 91.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.3156 g	5 mL	217187	07/16/17 09:00	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	217186	07/16/17 12:43	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: DUP-4

Lab Sample ID: 180-68096-22
Date Collected: 07/11/17 00:00
Matrix: Solid
Date Received: 07/12/17 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216870	07/12/17 16:42	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: DUP-4

Lab Sample ID: 180-68096-22
Date Collected: 07/11/17 00:00
Matrix: Solid
Date Received: 07/12/17 09:10
Percent Solids: 91.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.1 g	0.5 mL	216880	07/13/17 03:37	BAP	TAL PIT
Total/NA	Analysis	8270D LL		5	1 mL	1 mL	216940	07/13/17 22:15	DLF	TAL PIT
	Instrument ID: CH71									
Total/NA	Prep	3541			15.1 g	20.0 mL	216879	07/13/17 03:34	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	216929	07/13/17 09:31	DFE	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	216930	07/13/17 09:32	DFE	TAL PIT
Total/NA	Analysis	8082A		1			217035	07/14/17 17:08	JMO	TAL PIT
	Instrument ID: CHGC8									
Total/NA	Prep	3050B			1.09 g	100 mL	216920	07/13/17 09:05	CRM	TAL PIT

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68096-1

Client Sample ID: DUP-4

Date Collected: 07/11/17 00:00
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-22

Matrix: Solid
Percent Solids: 91.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	6010C		1			217205	07/14/17 13:53	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.63 g	100 mL	217097	07/14/17 11:17	RJR	TAL PIT
Total/NA	Analysis	7471B		1			217252	07/17/17 09:31	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.04 g	50 mL	216972	07/13/17 12:02	JAS	TAL PIT
Total/NA	Analysis	9014		1			217087	07/13/17 16:14	JAS	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: W3, S1, C 71117

Date Collected: 07/11/17 13:25
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-23

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216870	07/12/17 16:42	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W3, S1, C 71117

Date Collected: 07/11/17 13:25
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-23

Matrix: Solid
Percent Solids: 91.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.3 g	0.5 mL	216880	07/13/17 03:37	BAP	TAL PIT
Total/NA	Analysis	8270D LL		10	1 mL	1 mL	216940	07/13/17 22:42	DLF	TAL PIT
	Instrument ID: CH71									
Total/NA	Prep	3541			15.3 g	20.0 mL	216879	07/13/17 03:34	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	216929	07/13/17 09:31	DFE	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	216930	07/13/17 09:32	DFE	TAL PIT
Total/NA	Analysis	8082A		1			217035	07/14/17 17:28	JMO	TAL PIT
	Instrument ID: CHGC8									
Total/NA	Prep	3050B			0.96 g	100 mL	216920	07/13/17 09:05	CRM	TAL PIT
Total/NA	Analysis	6010C		1			217205	07/14/17 13:58	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.74 g	100 mL	217097	07/14/17 11:17	RJR	TAL PIT
Total/NA	Analysis	7471B		1			217252	07/17/17 09:33	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.03 g	50 mL	216972	07/13/17 12:02	JAS	TAL PIT
Total/NA	Analysis	9014		1			217087	07/13/17 16:15	JAS	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: W3, S2, A 71117
Date Collected: 07/11/17 13:45
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-24
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216870	07/12/17 16:42	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W3, S2, A 71117
Date Collected: 07/11/17 13:45
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-24
Matrix: Solid
Percent Solids: 91.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.2608 g	5 mL	217187	07/16/17 09:00	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	217186	07/16/17 13:05	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W3, S2, B 71117
Date Collected: 07/11/17 13:50
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-25
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216870	07/12/17 16:42	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W3, S2, B 71117
Date Collected: 07/11/17 13:50
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-25
Matrix: Solid
Percent Solids: 92.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.4316 g	5 mL	217187	07/16/17 09:00	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	217186	07/16/17 13:28	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W3, S2, C 71117
Date Collected: 07/11/17 13:55
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-26
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216870	07/12/17 16:42	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W3, S2, C 71117
Date Collected: 07/11/17 13:55
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-26
Matrix: Solid
Percent Solids: 91.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.2 g	0.5 mL	216880	07/13/17 03:37	BAP	TAL PIT

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68096-1

Client Sample ID: W3, S2, C 71117

Lab Sample ID: 180-68096-26
Date Collected: 07/11/17 13:55
Matrix: Solid
Date Received: 07/12/17 09:10
Percent Solids: 91.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8270D LL		10	1 mL	1 mL	217242	07/17/17 11:48	DLF	TAL PIT
	Instrument ID: CH71									
Total/NA	Prep	3541			15.2 g	20.0 mL	216879	07/13/17 03:34	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	216929	07/13/17 09:31	DFE	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	216930	07/13/17 09:32	DFE	TAL PIT
Total/NA	Analysis	8082A		1			217035	07/14/17 17:49	JMO	TAL PIT
	Instrument ID: CHGC8									
Total/NA	Prep	3050B			1.01 g	100 mL	216920	07/13/17 09:05	CRM	TAL PIT
Total/NA	Analysis	6010C		1			217205	07/14/17 14:03	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.72 g	100 mL	217097	07/14/17 11:17	RJR	TAL PIT
Total/NA	Analysis	7471B		1			217252	07/17/17 09:35	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.03 g	50 mL	216972	07/13/17 12:02	JAS	TAL PIT
Total/NA	Analysis	9014		1			217087	07/13/17 16:17	JAS	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: W3, S3, A 71117

Lab Sample ID: 180-68096-27
Date Collected: 07/11/17 14:15
Matrix: Solid
Date Received: 07/12/17 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216870	07/12/17 16:42	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W3, S3, A 71117

Lab Sample ID: 180-68096-27
Date Collected: 07/11/17 14:15
Matrix: Solid
Date Received: 07/12/17 09:10
Percent Solids: 91.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.5406 g	5 mL	217187	07/16/17 09:00	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	217186	07/16/17 13:50	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W3, S3, B 71117

Lab Sample ID: 180-68096-28
Date Collected: 07/11/17 14:20
Matrix: Solid
Date Received: 07/12/17 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216870	07/12/17 16:42	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68096-1

Client Sample ID: W3, S3, B 71117
Date Collected: 07/11/17 14:20
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-28
Matrix: Solid
Percent Solids: 89.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.0785 g	5 mL	217187	07/16/17 09:00	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	217186	07/16/17 14:13	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W3, S3, C 71117
Date Collected: 07/11/17 14:25
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-29
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216870	07/12/17 16:42	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W3, S3, C 71117
Date Collected: 07/11/17 14:25
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-29
Matrix: Solid
Percent Solids: 90.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.1 g	0.5 mL	216880	07/13/17 03:37	BAP	TAL PIT
Total/NA	Analysis	8270D LL		10	1 mL	1 mL	217242	07/17/17 12:16	DLF	TAL PIT
	Instrument ID: CH71									
Total/NA	Prep	3541			15.2 g	20.0 mL	216879	07/13/17 03:34	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	216929	07/13/17 09:31	DFE	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	216930	07/13/17 09:32	DFE	TAL PIT
Total/NA	Analysis	8082A		1			217035	07/14/17 18:09	JMO	TAL PIT
	Instrument ID: CHGC8									
Total/NA	Prep	3050B			1.07 g	100 mL	216920	07/13/17 09:05	CRM	TAL PIT
Total/NA	Analysis	6010C		1			217205	07/14/17 14:08	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.59 g	100 mL	217097	07/14/17 11:17	RJR	TAL PIT
Total/NA	Analysis	7471B		1			217252	07/17/17 09:37	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.00 g	50 mL	216972	07/13/17 12:02	JAS	TAL PIT
Total/NA	Analysis	9014		1			217087	07/13/17 16:19	JAS	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: W3, S4, A 71117
Date Collected: 07/11/17 14:45
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-30
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216870	07/12/17 16:42	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W3, S4, A 71117

Lab Sample ID: 180-68096-30
Date Collected: 07/11/17 14:45
Matrix: Solid
Date Received: 07/12/17 09:10
Percent Solids: 90.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.4037 g	5 mL	217187	07/16/17 09:00	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	217186	07/16/17 19:55	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W3, S4, B 71117

Lab Sample ID: 180-68096-31
Date Collected: 07/11/17 14:50
Matrix: Solid
Date Received: 07/12/17 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216870	07/12/17 16:42	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W3, S4, B 71117

Lab Sample ID: 180-68096-31
Date Collected: 07/11/17 14:50
Matrix: Solid
Date Received: 07/12/17 09:10
Percent Solids: 91.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.1767 g	5 mL	217187	07/16/17 09:00	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	217186	07/16/17 14:59	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W3, S4, C 71117

Lab Sample ID: 180-68096-32
Date Collected: 07/11/17 14:55
Matrix: Solid
Date Received: 07/12/17 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216870	07/12/17 16:42	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W3, S4, C 71117

Lab Sample ID: 180-68096-32
Date Collected: 07/11/17 14:55
Matrix: Solid
Date Received: 07/12/17 09:10
Percent Solids: 90.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	0.5 mL	216880	07/13/17 03:37	BAP	TAL PIT
Total/NA	Analysis	8270D LL		10	1 mL	1 mL	217242	07/17/17 12:43	DLF	TAL PIT
	Instrument ID: CH71									
Total/NA	Prep	3541			15.3 g	20.0 mL	216879	07/13/17 03:34	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	216929	07/13/17 09:31	DFE	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	216930	07/13/17 09:32	DFE	TAL PIT
Total/NA	Analysis	8082A		1			217035	07/14/17 18:29	JMO	TAL PIT
	Instrument ID: CHGC8									
Total/NA	Prep	3050B			1.01 g	100 mL	216920	07/13/17 09:05	CRM	TAL PIT

Client Sample ID: W3, S4, C 71117

Lab Sample ID: 180-68096-32
Date Collected: 07/11/17 14:55
Matrix: Solid
Date Received: 07/12/17 09:10
Percent Solids: 90.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	6010C		1			217205	07/14/17 14:13	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.68 g	100 mL	217097	07/14/17 11:17	RJR	TAL PIT
Total/NA	Analysis	7471B		1			217252	07/17/17 09:39	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.02 g	50 mL	216972	07/13/17 12:02	JAS	TAL PIT
Total/NA	Analysis	9014		1			217087	07/13/17 16:21	JAS	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: DUP-5

Lab Sample ID: 180-68096-33
Date Collected: 07/11/17 00:00
Matrix: Solid
Date Received: 07/12/17 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216870	07/12/17 16:42	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: DUP-5

Lab Sample ID: 180-68096-33
Date Collected: 07/11/17 00:00
Matrix: Solid
Date Received: 07/12/17 09:10
Percent Solids: 90.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.4988 g	5 mL	217187	07/16/17 09:00	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	217186	07/16/17 15:22	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W3, S5, A 71117

Lab Sample ID: 180-68096-34
Date Collected: 07/11/17 15:15
Matrix: Solid
Date Received: 07/12/17 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216870	07/12/17 16:42	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W3, S5, A 71117

Lab Sample ID: 180-68096-34
Date Collected: 07/11/17 15:15
Matrix: Solid
Date Received: 07/12/17 09:10
Percent Solids: 91.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.3266 g	5 mL	217050	07/13/17 10:30	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	217056	07/14/17 17:23	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W3, S5, B 71117
Date Collected: 07/11/17 15:20
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-35
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216870	07/12/17 16:42	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W3, S5, B 71117
Date Collected: 07/11/17 15:20
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-35
Matrix: Solid
Percent Solids: 92.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.4192 g	5 mL	217050	07/13/17 10:30	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	217056	07/14/17 17:00	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W3, S5, C 71117
Date Collected: 07/11/17 15:25
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-36
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216870	07/12/17 16:42	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W3, S5, C 71117
Date Collected: 07/11/17 15:25
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-36
Matrix: Solid
Percent Solids: 92.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	0.5 mL	216880	07/13/17 03:37	BAP	TAL PIT
Total/NA	Analysis	8270D LL		10	1 mL	1 mL	217242	07/17/17 13:11	DLF	TAL PIT
	Instrument ID: CH71									
Total/NA	Prep	3541			15.4 g	20.0 mL	216879	07/13/17 03:34	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	216929	07/13/17 09:31	DFE	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	216930	07/13/17 09:32	DFE	TAL PIT
Total/NA	Analysis	8082A		1			217035	07/14/17 18:49	JMO	TAL PIT
	Instrument ID: CHGC8									
Total/NA	Prep	3050B			1.03 g	100 mL	216920	07/13/17 09:05	CRM	TAL PIT
Total/NA	Analysis	6010C		1			217205	07/14/17 14:19	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.61 g	100 mL	217097	07/14/17 11:17	RJR	TAL PIT
Total/NA	Analysis	7471B		1			217252	07/17/17 09:41	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.00 g	50 mL	216972	07/13/17 12:02	JAS	TAL PIT
Total/NA	Analysis	9014		1			217087	07/13/17 16:22	JAS	TAL PIT
	Instrument ID: SEAL2									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68096-1

Client Sample ID: TRIP BLANK 1

Lab Sample ID: 180-68096-37

Date Collected: 07/11/17 00:00
Matrix: Water
Date Received: 07/12/17 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	217200	07/17/17 08:58	FBB	TAL PIT
	Instrument ID: CHHP5									

Client Sample ID: TRIP BLANK 2

Lab Sample ID: 180-68096-38

Date Collected: 07/11/17 00:00
Matrix: Water
Date Received: 07/12/17 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	217200	07/17/17 09:21	FBB	TAL PIT
	Instrument ID: CHHP5									

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Analyst References:

Lab: TAL PIT

Batch Type: Cleanup

DFE = David Eppinger

Batch Type: Prep

BAP = Brian Pino

CRM = Caitlin McEvoy

JAS = Joshua Schmidt

KLG = Kathy Gordon

RJR = Ron Rosenbaum

Batch Type: Analysis

DLF = Donald Ferguson

FBB = Frank Bungard

JAS = Joshua Schmidt

JMO = John Oravec

JTL = Justin Landry

KLG = Kathy Gordon

RJG = Rob Good

RJR = Ron Rosenbaum

Client Sample ID: W1, S5, A 71117

Lab Sample ID: 180-68096-1
Date Collected: 07/11/17 10:15
Matrix: Solid
Date Received: 07/12/17 09:10
Percent Solids: 89.2

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.021	0.0034	mg/Kg	☼	07/13/17 06:04	07/13/17 12:46	1
Benzene	ND		0.0053	0.0021	mg/Kg	☼	07/13/17 06:04	07/13/17 12:46	1
2-Butanone (MEK)	ND		0.0053	0.0031	mg/Kg	☼	07/13/17 06:04	07/13/17 12:46	1
Carbon tetrachloride	ND		0.0053	0.0035	mg/Kg	☼	07/13/17 06:04	07/13/17 12:46	1
Chlorobenzene	ND		0.0053	0.0017	mg/Kg	☼	07/13/17 06:04	07/13/17 12:46	1
Chloroform	ND		0.0053	0.0023	mg/Kg	☼	07/13/17 06:04	07/13/17 12:46	1
cis-1,2-Dichloroethene	ND		0.0053	0.0017	mg/Kg	☼	07/13/17 06:04	07/13/17 12:46	1
1,2-Dichlorobenzene	ND		0.0053	0.0043	mg/Kg	☼	07/13/17 06:04	07/13/17 12:46	1
1,3-Dichlorobenzene	ND		0.0053	0.0017	mg/Kg	☼	07/13/17 06:04	07/13/17 12:46	1
1,4-Dichlorobenzene	ND		0.0053	0.0011	mg/Kg	☼	07/13/17 06:04	07/13/17 12:46	1
1,1-Dichloroethane	ND		0.0053	0.0019	mg/Kg	☼	07/13/17 06:04	07/13/17 12:46	1
1,2-Dichloroethane	ND		0.0053	0.0016	mg/Kg	☼	07/13/17 06:04	07/13/17 12:46	1
1,1-Dichloroethene	ND		0.0053	0.0030	mg/Kg	☼	07/13/17 06:04	07/13/17 12:46	1
Ethylbenzene	ND		0.0053	0.0023	mg/Kg	☼	07/13/17 06:04	07/13/17 12:46	1
Methylene Chloride	ND		0.0053	0.0025	mg/Kg	☼	07/13/17 06:04	07/13/17 12:46	1
Methyl tert-butyl ether	ND		0.0053	0.0039	mg/Kg	☼	07/13/17 06:04	07/13/17 12:46	1
n-Butylbenzene	ND		0.0053	0.0040	mg/Kg	☼	07/13/17 06:04	07/13/17 12:46	1
N-Propylbenzene	ND		0.0053	0.0023	mg/Kg	☼	07/13/17 06:04	07/13/17 12:46	1
sec-Butylbenzene	ND		0.0053	0.0026	mg/Kg	☼	07/13/17 06:04	07/13/17 12:46	1
tert-Butylbenzene	ND		0.0053	0.0020	mg/Kg	☼	07/13/17 06:04	07/13/17 12:46	1
Tetrachloroethene	ND		0.0053	0.0021	mg/Kg	☼	07/13/17 06:04	07/13/17 12:46	1
Toluene	ND		0.0053	0.0018	mg/Kg	☼	07/13/17 06:04	07/13/17 12:46	1
trans-1,2-Dichloroethene	ND		0.0053	0.0027	mg/Kg	☼	07/13/17 06:04	07/13/17 12:46	1
1,1,1-Trichloroethane	ND		0.0053	0.0027	mg/Kg	☼	07/13/17 06:04	07/13/17 12:46	1
Trichloroethene	ND		0.0053	0.0016	mg/Kg	☼	07/13/17 06:04	07/13/17 12:46	1
1,2,4-Trimethylbenzene	ND		0.0053	0.0014	mg/Kg	☼	07/13/17 06:04	07/13/17 12:46	1
1,3,5-Trimethylbenzene	ND		0.0053	0.0018	mg/Kg	☼	07/13/17 06:04	07/13/17 12:46	1
Vinyl chloride	ND		0.0053	0.0039	mg/Kg	☼	07/13/17 06:04	07/13/17 12:46	1
Xylenes, Total	ND		0.011	0.0046	mg/Kg	☼	07/13/17 06:04	07/13/17 12:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*63 - 120*	*07/13/17 06:04*	*07/13/17 12:46*	*1*
Dibromofluoromethane (Surr)	*86*		*68 - 121*	*07/13/17 06:04*	*07/13/17 12:46*	*1*
1,2-Dichloroethane-d4 (Surr)	*81*		*52 - 124*	*07/13/17 06:04*	*07/13/17 12:46*	*1*
Toluene-d8 (Surr)	*104*		*72 - 127*	*07/13/17 06:04*	*07/13/17 12:46*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**10.7**		0.1	0.1	%			07/12/17 15:57	1
Percent Solids	**89.3**		0.1	0.1	%			07/12/17 15:57	1

Client Sample ID: W1, S5, B 71117

Lab Sample ID: 180-68096-2
Date Collected: 07/11/17 10:20
Matrix: Solid
Date Received: 07/12/17 09:10
Percent Solids: 89.7

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.018	0.0028	mg/Kg	☼	07/13/17 06:04	07/13/17 13:08	1
Benzene	ND		0.0044	0.0017	mg/Kg	☼	07/13/17 06:04	07/13/17 13:08	1
2-Butanone (MEK)	ND		0.0044	0.0026	mg/Kg	☼	07/13/17 06:04	07/13/17 13:08	1

Client Sample ID: W1, S5, B 71117

Lab Sample ID: 180-68096-2
Date Collected: 07/11/17 10:20
Matrix: Solid
Date Received: 07/12/17 09:10
Percent Solids: 89.7

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	ND		0.0044	0.0029	mg/Kg	☼	07/13/17 06:04	07/13/17 13:08	1
Chlorobenzene	ND		0.0044	0.0014	mg/Kg	☼	07/13/17 06:04	07/13/17 13:08	1
Chloroform	ND		0.0044	0.0019	mg/Kg	☼	07/13/17 06:04	07/13/17 13:08	1
cis-1,2-Dichloroethene	ND		0.0044	0.0014	mg/Kg	☼	07/13/17 06:04	07/13/17 13:08	1
1,2-Dichlorobenzene	ND		0.0044	0.0036	mg/Kg	☼	07/13/17 06:04	07/13/17 13:08	1
1,3-Dichlorobenzene	ND		0.0044	0.0014	mg/Kg	☼	07/13/17 06:04	07/13/17 13:08	1
1,4-Dichlorobenzene	ND		0.0044	0.00090	mg/Kg	☼	07/13/17 06:04	07/13/17 13:08	1
1,1-Dichloroethane	ND		0.0044	0.0016	mg/Kg	☼	07/13/17 06:04	07/13/17 13:08	1
1,2-Dichloroethane	ND		0.0044	0.0013	mg/Kg	☼	07/13/17 06:04	07/13/17 13:08	1
1,1-Dichloroethene	ND		0.0044	0.0025	mg/Kg	☼	07/13/17 06:04	07/13/17 13:08	1
Ethylbenzene	ND		0.0044	0.0019	mg/Kg	☼	07/13/17 06:04	07/13/17 13:08	1
Methylene Chloride	ND		0.0044	0.0021	mg/Kg	☼	07/13/17 06:04	07/13/17 13:08	1
Methyl tert-butyl ether	ND		0.0044	0.0033	mg/Kg	☼	07/13/17 06:04	07/13/17 13:08	1
n-Butylbenzene	ND		0.0044	0.0034	mg/Kg	☼	07/13/17 06:04	07/13/17 13:08	1
N-Propylbenzene	ND		0.0044	0.0019	mg/Kg	☼	07/13/17 06:04	07/13/17 13:08	1
sec-Butylbenzene	ND		0.0044	0.0022	mg/Kg	☼	07/13/17 06:04	07/13/17 13:08	1
tert-Butylbenzene	ND		0.0044	0.0016	mg/Kg	☼	07/13/17 06:04	07/13/17 13:08	1
Tetrachloroethene	ND		0.0044	0.0018	mg/Kg	☼	07/13/17 06:04	07/13/17 13:08	1
Toluene	ND		0.0044	0.0015	mg/Kg	☼	07/13/17 06:04	07/13/17 13:08	1
trans-1,2-Dichloroethene	ND		0.0044	0.0022	mg/Kg	☼	07/13/17 06:04	07/13/17 13:08	1
1,1,1-Trichloroethane	ND		0.0044	0.0022	mg/Kg	☼	07/13/17 06:04	07/13/17 13:08	1
Trichloroethene	ND		0.0044	0.0013	mg/Kg	☼	07/13/17 06:04	07/13/17 13:08	1
1,2,4-Trimethylbenzene	ND		0.0044	0.0012	mg/Kg	☼	07/13/17 06:04	07/13/17 13:08	1
1,3,5-Trimethylbenzene	ND		0.0044	0.0015	mg/Kg	☼	07/13/17 06:04	07/13/17 13:08	1
Vinyl chloride	ND		0.0044	0.0033	mg/Kg	☼	07/13/17 06:04	07/13/17 13:08	1
Xylenes, Total	ND		0.0089	0.0038	mg/Kg	☼	07/13/17 06:04	07/13/17 13:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*63 - 120*	*07/13/17 06:04*	*07/13/17 13:08*	*1*
Dibromofluoromethane (Surr)	*85*		*68 - 121*	*07/13/17 06:04*	*07/13/17 13:08*	*1*
1,2-Dichloroethane-d4 (Surr)	*79*		*52 - 124*	*07/13/17 06:04*	*07/13/17 13:08*	*1*
Toluene-d8 (Surr)	*105*		*72 - 127*	*07/13/17 06:04*	*07/13/17 13:08*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**10.3**		0.1	0.1	%			07/12/17 15:57	1
Percent Solids	**89.7**		0.1	0.1	%			07/12/17 15:57	1

Client Sample ID: W1, S5, C 71117

Lab Sample ID: 180-68096-3
Date Collected: 07/11/17 10:25
Matrix: Solid
Date Received: 07/12/17 09:10
Percent Solids: 90.8

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.073	0.025	mg/Kg	☼	07/13/17 03:37	07/13/17 19:58	10
Acenaphthylene	**0.099**		0.073	0.025	mg/Kg	☼	07/13/17 03:37	07/13/17 19:58	10
Anthracene	**0.11**		0.073	0.027	mg/Kg	☼	07/13/17 03:37	07/13/17 19:58	10
Benzo[a]anthracene	**0.45**		0.073	0.029	mg/Kg	☼	07/13/17 03:37	07/13/17 19:58	10
Benzo[a]pyrene	**0.45**		0.073	0.030	mg/Kg	☼	07/13/17 03:37	07/13/17 19:58	10
Benzo[b]fluoranthene	**0.57**		0.073	0.032	mg/Kg	☼	07/13/17 03:37	07/13/17 19:58	10

Client Sample ID: W1, S5, C 71117 **Lab Sample ID: 180-68096-3**
Date Collected: 07/11/17 10:25 **Matrix: Solid**
Date Received: 07/12/17 09:10 **Percent Solids: 90.8**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	**0.47**		0.073	0.032	mg/Kg	☼	07/13/17 03:37	07/13/17 19:58	10
Benzo[k]fluoranthene	**0.15**		0.073	0.025	mg/Kg	☼	07/13/17 03:37	07/13/17 19:58	10
Chrysene	**0.38**		0.073	0.028	mg/Kg	☼	07/13/17 03:37	07/13/17 19:58	10
Dibenz(a,h)anthracene	**0.11**		0.073	0.030	mg/Kg	☼	07/13/17 03:37	07/13/17 19:58	10
Dibenzofuran	**0.040**	**J**	0.36	0.029	mg/Kg	☼	07/13/17 03:37	07/13/17 19:58	10
2,4-Dinitrotoluene	ND		0.36	0.048	mg/Kg	☼	07/13/17 03:37	07/13/17 19:58	10
1,4-Dioxane	ND		0.73	0.055	mg/Kg	☼	07/13/17 03:37	07/13/17 19:58	10
Fluoranthene	**0.72**		0.073	0.029	mg/Kg	☼	07/13/17 03:37	07/13/17 19:58	10
Fluorene	ND		0.073	0.026	mg/Kg	☼	07/13/17 03:37	07/13/17 19:58	10
Hexachlorobenzene	ND		0.073	0.029	mg/Kg	☼	07/13/17 03:37	07/13/17 19:58	10
Hexachlorobutadiene	ND		0.073	0.023	mg/Kg	☼	07/13/17 03:37	07/13/17 19:58	10
Hexachloroethane	ND		0.36	0.026	mg/Kg	☼	07/13/17 03:37	07/13/17 19:58	10
Indeno[1,2,3-cd]pyrene	**0.40**		0.073	0.028	mg/Kg	☼	07/13/17 03:37	07/13/17 19:58	10
2-Methylphenol	ND		0.36	0.032	mg/Kg	☼	07/13/17 03:37	07/13/17 19:58	10
Methylphenol, 3 & 4	ND		0.36	0.032	mg/Kg	☼	07/13/17 03:37	07/13/17 19:58	10
Naphthalene	**0.12**		0.073	0.026	mg/Kg	☼	07/13/17 03:37	07/13/17 19:58	10
Nitrobenzene	ND		0.73	0.028	mg/Kg	☼	07/13/17 03:37	07/13/17 19:58	10
Pentachlorophenol	ND		1.9	0.69	mg/Kg	☼	07/13/17 03:37	07/13/17 19:58	10
Phenanthrene	**0.36**		0.073	0.030	mg/Kg	☼	07/13/17 03:37	07/13/17 19:58	10
Phenol	ND		0.36	0.049	mg/Kg	☼	07/13/17 03:37	07/13/17 19:58	10
Pyrene	**0.72**		0.073	0.032	mg/Kg	☼	07/13/17 03:37	07/13/17 19:58	10
Pyridine	ND		0.36	0.035	mg/Kg	☼	07/13/17 03:37	07/13/17 19:58	10
2,4,5-Trichlorophenol	ND		0.36	0.035	mg/Kg	☼	07/13/17 03:37	07/13/17 19:58	10
2,4,6-Trichlorophenol	ND		0.36	0.032	mg/Kg	☼	07/13/17 03:37	07/13/17 19:58	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*49*		*42 - 100*	*07/13/17 03:37*	*07/13/17 19:58*	*10*
2-Fluorophenol (Surr)	*48*		*21 - 107*	*07/13/17 03:37*	*07/13/17 19:58*	*10*
Nitrobenzene-d5 (Surr)	*54*		*35 - 109*	*07/13/17 03:37*	*07/13/17 19:58*	*10*
Phenol-d5 (Surr)	*42*		*29 - 105*	*07/13/17 03:37*	*07/13/17 19:58*	*10*
Terphenyl-d14 (Surr)	*54*		*36 - 113*	*07/13/17 03:37*	*07/13/17 19:58*	*10*
2,4,6-Tribromophenol (Surr)	*40*		*20 - 134*	*07/13/17 03:37*	*07/13/17 19:58*	*10*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.018	0.0095	mg/Kg	☼	07/13/17 03:34	07/14/17 13:47	1
PCB-1221	ND		0.018	0.0093	mg/Kg	☼	07/13/17 03:34	07/14/17 13:47	1
PCB-1232	ND		0.018	0.0071	mg/Kg	☼	07/13/17 03:34	07/14/17 13:47	1
PCB-1242	ND		0.018	0.014	mg/Kg	☼	07/13/17 03:34	07/14/17 13:47	1
PCB-1248	**0.63**		0.018	0.0086	mg/Kg	☼	07/13/17 03:34	07/14/17 13:47	1
PCB-1254	**0.45**		0.018	0.0079	mg/Kg	☼	07/13/17 03:34	07/14/17 13:47	1
PCB-1260	**0.15**		0.018	0.012	mg/Kg	☼	07/13/17 03:34	07/14/17 13:47	1
PCB-1262	ND		0.018	0.013	mg/Kg	☼	07/13/17 03:34	07/14/17 13:47	1
PCB-1268	ND		0.018	0.0055	mg/Kg	☼	07/13/17 03:34	07/14/17 13:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*76*		*23 - 150*	*07/13/17 03:34*	*07/14/17 13:47*	*1*
DCB Decachlorobiphenyl (Surr)	*85*		*23 - 150*	*07/13/17 03:34*	*07/14/17 13:47*	*1*
Tetrachloro-m-xylene (Surr)	*82*		*27 - 138*	*07/13/17 03:34*	*07/14/17 13:47*	*1*
Tetrachloro-m-xylene (Surr)	*73*		*27 - 138*	*07/13/17 03:34*	*07/14/17 13:47*	*1*

Client Sample ID: W1, S5, C 71117 — Lab Sample ID: 180-68096-3

Date Collected: 07/11/17 10:25 — **Matrix: Solid**
Date Received: 07/12/17 09:10 — **Percent Solids: 90.8**

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.8		1.1	0.49	mg/Kg	☼	07/13/17 09:05	07/14/17 12:51	1
Barium	65		22	6.0	mg/Kg	☼	07/13/17 09:05	07/14/17 12:51	1
Beryllium	0.30	J	0.44	0.12	mg/Kg	☼	07/13/17 09:05	07/14/17 12:51	1
Cadmium	0.16	J	0.56	0.12	mg/Kg	☼	07/13/17 09:05	07/14/17 12:51	1
Chromium	8.0		0.56	0.14	mg/Kg	☼	07/13/17 09:05	07/14/17 12:51	1
Copper	45		2.8	0.86	mg/Kg	☼	07/13/17 09:05	07/14/17 12:51	1
Lead	38		1.1	0.37	mg/Kg	☼	07/13/17 09:05	07/14/17 12:51	1
Manganese	350		1.7	0.45	mg/Kg	☼	07/13/17 09:05	07/14/17 12:51	1
Nickel	14		4.4	1.0	mg/Kg	☼	07/13/17 09:05	07/14/17 12:51	1
Selenium	ND		1.1	0.44	mg/Kg	☼	07/13/17 09:05	07/14/17 12:51	1
Silver	ND		0.56	0.18	mg/Kg	☼	07/13/17 09:05	07/14/17 12:51	1
Zinc	72		2.2	1.1	mg/Kg	☼	07/13/17 09:05	07/14/17 12:51	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.29		0.036	0.0080	mg/Kg	☼	07/14/17 11:17	07/17/17 09:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.2		0.1	0.1	%			07/12/17 15:57	1
Percent Solids	90.8		0.1	0.1	%			07/12/17 15:57	1
Cyanide, Total	ND		0.54	0.17	mg/Kg	☼	07/13/17 12:02	07/13/17 15:56	1

Client Sample ID: W2, S1, A 71117 — Lab Sample ID: 180-68096-4

Date Collected: 07/11/17 10:45 — **Matrix: Solid**
Date Received: 07/12/17 09:10 — **Percent Solids: 90.4**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.021	0.0033	mg/Kg	☼	07/13/17 06:04	07/13/17 09:22	1
Benzene	ND		0.0052	0.0020	mg/Kg	☼	07/13/17 06:04	07/13/17 09:22	1
2-Butanone (MEK)	ND		0.0052	0.0030	mg/Kg	☼	07/13/17 06:04	07/13/17 09:22	1
Carbon tetrachloride	ND		0.0052	0.0034	mg/Kg	☼	07/13/17 06:04	07/13/17 09:22	1
Chlorobenzene	ND		0.0052	0.0016	mg/Kg	☼	07/13/17 06:04	07/13/17 09:22	1
Chloroform	ND		0.0052	0.0022	mg/Kg	☼	07/13/17 06:04	07/13/17 09:22	1
cis-1,2-Dichloroethene	ND		0.0052	0.0016	mg/Kg	☼	07/13/17 06:04	07/13/17 09:22	1
1,2-Dichlorobenzene	ND		0.0052	0.0042	mg/Kg	☼	07/13/17 06:04	07/13/17 09:22	1
1,3-Dichlorobenzene	ND		0.0052	0.0017	mg/Kg	☼	07/13/17 06:04	07/13/17 09:22	1
1,4-Dichlorobenzene	ND		0.0052	0.0011	mg/Kg	☼	07/13/17 06:04	07/13/17 09:22	1
1,1-Dichloroethane	ND		0.0052	0.0019	mg/Kg	☼	07/13/17 06:04	07/13/17 09:22	1
1,2-Dichloroethane	ND		0.0052	0.0015	mg/Kg	☼	07/13/17 06:04	07/13/17 09:22	1
1,1-Dichloroethene	ND		0.0052	0.0030	mg/Kg	☼	07/13/17 06:04	07/13/17 09:22	1
Ethylbenzene	ND		0.0052	0.0022	mg/Kg	☼	07/13/17 06:04	07/13/17 09:22	1
Methylene Chloride	ND		0.0052	0.0024	mg/Kg	☼	07/13/17 06:04	07/13/17 09:22	1
Methyl tert-butyl ether	ND		0.0052	0.0038	mg/Kg	☼	07/13/17 06:04	07/13/17 09:22	1
n-Butylbenzene	ND		0.0052	0.0039	mg/Kg	☼	07/13/17 06:04	07/13/17 09:22	1
N-Propylbenzene	ND		0.0052	0.0022	mg/Kg	☼	07/13/17 06:04	07/13/17 09:22	1
sec-Butylbenzene	ND		0.0052	0.0025	mg/Kg	☼	07/13/17 06:04	07/13/17 09:22	1
tert-Butylbenzene	ND		0.0052	0.0019	mg/Kg	☼	07/13/17 06:04	07/13/17 09:22	1
Tetrachloroethene	ND		0.0052	0.0021	mg/Kg	☼	07/13/17 06:04	07/13/17 09:22	1

Client Sample ID: W2, S1, A 71117

Lab Sample ID: 180-68096-4
Date Collected: 07/11/17 10:45
Matrix: Solid
Date Received: 07/12/17 09:10
Percent Solids: 90.4

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		0.0052	0.0017	mg/Kg	☼	07/13/17 06:04	07/13/17 09:22	1
trans-1,2-Dichloroethene	ND		0.0052	0.0026	mg/Kg	☼	07/13/17 06:04	07/13/17 09:22	1
1,1,1-Trichloroethane	ND		0.0052	0.0026	mg/Kg	☼	07/13/17 06:04	07/13/17 09:22	1
Trichloroethene	ND		0.0052	0.0016	mg/Kg	☼	07/13/17 06:04	07/13/17 09:22	1
1,2,4-Trimethylbenzene	ND		0.0052	0.0014	mg/Kg	☼	07/13/17 06:04	07/13/17 09:22	1
1,3,5-Trimethylbenzene	ND		0.0052	0.0018	mg/Kg	☼	07/13/17 06:04	07/13/17 09:22	1
Vinyl chloride	ND		0.0052	0.0038	mg/Kg	☼	07/13/17 06:04	07/13/17 09:22	1
Xylenes, Total	ND		0.010	0.0045	mg/Kg	☼	07/13/17 06:04	07/13/17 09:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*63 - 120*	*07/13/17 06:04*	*07/13/17 09:22*	*1*
Dibromofluoromethane (Surr)	*91*		*68 - 121*	*07/13/17 06:04*	*07/13/17 09:22*	*1*
1,2-Dichloroethane-d4 (Surr)	*84*		*52 - 124*	*07/13/17 06:04*	*07/13/17 09:22*	*1*
Toluene-d8 (Surr)	*113*		*72 - 127*	*07/13/17 06:04*	*07/13/17 09:22*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.6**		0.1	0.1	%			07/12/17 15:57	1
Percent Solids	**90.4**		0.1	0.1	%			07/12/17 15:57	1

Client Sample ID: W2, S1, B 71117

Lab Sample ID: 180-68096-5
Date Collected: 07/11/17 10:50
Matrix: Solid
Date Received: 07/12/17 09:10
Percent Solids: 91.9

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.018	0.0028	mg/Kg	☼	07/13/17 06:04	07/13/17 13:31	1
Benzene	ND		0.0044	0.0017	mg/Kg	☼	07/13/17 06:04	07/13/17 13:31	1
2-Butanone (MEK)	ND		0.0044	0.0026	mg/Kg	☼	07/13/17 06:04	07/13/17 13:31	1
Carbon tetrachloride	ND		0.0044	0.0029	mg/Kg	☼	07/13/17 06:04	07/13/17 13:31	1
Chlorobenzene	ND		0.0044	0.0014	mg/Kg	☼	07/13/17 06:04	07/13/17 13:31	1
Chloroform	ND		0.0044	0.0019	mg/Kg	☼	07/13/17 06:04	07/13/17 13:31	1
cis-1,2-Dichloroethene	ND		0.0044	0.0014	mg/Kg	☼	07/13/17 06:04	07/13/17 13:31	1
1,2-Dichlorobenzene	ND		0.0044	0.0035	mg/Kg	☼	07/13/17 06:04	07/13/17 13:31	1
1,3-Dichlorobenzene	ND		0.0044	0.0014	mg/Kg	☼	07/13/17 06:04	07/13/17 13:31	1
1,4-Dichlorobenzene	ND		0.0044	0.00090	mg/Kg	☼	07/13/17 06:04	07/13/17 13:31	1
1,1-Dichloroethane	ND		0.0044	0.0016	mg/Kg	☼	07/13/17 06:04	07/13/17 13:31	1
1,2-Dichloroethane	ND		0.0044	0.0013	mg/Kg	☼	07/13/17 06:04	07/13/17 13:31	1
1,1-Dichloroethene	ND		0.0044	0.0025	mg/Kg	☼	07/13/17 06:04	07/13/17 13:31	1
Ethylbenzene	ND		0.0044	0.0019	mg/Kg	☼	07/13/17 06:04	07/13/17 13:31	1
Methylene Chloride	ND		0.0044	0.0021	mg/Kg	☼	07/13/17 06:04	07/13/17 13:31	1
Methyl tert-butyl ether	ND		0.0044	0.0032	mg/Kg	☼	07/13/17 06:04	07/13/17 13:31	1
n-Butylbenzene	ND		0.0044	0.0033	mg/Kg	☼	07/13/17 06:04	07/13/17 13:31	1
N-Propylbenzene	ND		0.0044	0.0019	mg/Kg	☼	07/13/17 06:04	07/13/17 13:31	1
sec-Butylbenzene	ND		0.0044	0.0021	mg/Kg	☼	07/13/17 06:04	07/13/17 13:31	1
tert-Butylbenzene	ND		0.0044	0.0016	mg/Kg	☼	07/13/17 06:04	07/13/17 13:31	1
Tetrachloroethene	ND		0.0044	0.0018	mg/Kg	☼	07/13/17 06:04	07/13/17 13:31	1
Toluene	ND		0.0044	0.0015	mg/Kg	☼	07/13/17 06:04	07/13/17 13:31	1
trans-1,2-Dichloroethene	ND		0.0044	0.0022	mg/Kg	☼	07/13/17 06:04	07/13/17 13:31	1
1,1,1-Trichloroethane	ND		0.0044	0.0022	mg/Kg	☼	07/13/17 06:04	07/13/17 13:31	1

Client Sample ID: W2, S1, B 71117

Lab Sample ID: 180-68096-5
Date Collected: 07/11/17 10:50
Matrix: Solid
Date Received: 07/12/17 09:10
Percent Solids: 91.9

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	ND		0.0044	0.0013	mg/Kg	☼	07/13/17 06:04	07/13/17 13:31	1
1,2,4-Trimethylbenzene	ND		0.0044	0.0012	mg/Kg	☼	07/13/17 06:04	07/13/17 13:31	1
1,3,5-Trimethylbenzene	ND		0.0044	0.0015	mg/Kg	☼	07/13/17 06:04	07/13/17 13:31	1
Vinyl chloride	ND		0.0044	0.0032	mg/Kg	☼	07/13/17 06:04	07/13/17 13:31	1
Xylenes, Total	ND		0.0088	0.0038	mg/Kg	☼	07/13/17 06:04	07/13/17 13:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*63 - 120*	*07/13/17 06:04*	*07/13/17 13:31*	*1*
Dibromofluoromethane (Surr)	*89*		*68 - 121*	*07/13/17 06:04*	*07/13/17 13:31*	*1*
1,2-Dichloroethane-d4 (Surr)	*83*		*52 - 124*	*07/13/17 06:04*	*07/13/17 13:31*	*1*
Toluene-d8 (Surr)	*110*		*72 - 127*	*07/13/17 06:04*	*07/13/17 13:31*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**8.1**		0.1	0.1	%			07/12/17 15:57	1
Percent Solids	**91.9**		0.1	0.1	%			07/12/17 15:57	1

Client Sample ID: W2, S1, C 71117

Lab Sample ID: 180-68096-6
Date Collected: 07/11/17 10:55
Matrix: Solid
Date Received: 07/12/17 09:10
Percent Solids: 89.8

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.14	0.048	mg/Kg	☼	07/13/17 03:37	07/13/17 18:37	20
Acenaphthylene	**0.12**	**J F2**	0.14	0.049	mg/Kg	☼	07/13/17 03:37	07/13/17 18:37	20
Anthracene	**0.15**	**F2**	0.14	0.053	mg/Kg	☼	07/13/17 03:37	07/13/17 18:37	20
Benzo[a]anthracene	**0.59**	**F1 F2**	0.14	0.057	mg/Kg	☼	07/13/17 03:37	07/13/17 18:37	20
Benzo[a]pyrene	**0.61**	**F1 F2**	0.14	0.060	mg/Kg	☼	07/13/17 03:37	07/13/17 18:37	20
Benzo[b]fluoranthene	**0.78**	**F1 F2**	0.14	0.062	mg/Kg	☼	07/13/17 03:37	07/13/17 18:37	20
Benzo[g,h,i]perylene	**0.55**	**F1 F2**	0.14	0.062	mg/Kg	☼	07/13/17 03:37	07/13/17 18:37	20
Benzo[k]fluoranthene	**0.21**	**F1 F2**	0.14	0.050	mg/Kg	☼	07/13/17 03:37	07/13/17 18:37	20
Chrysene	**0.62**	**F2**	0.14	0.056	mg/Kg	☼	07/13/17 03:37	07/13/17 18:37	20
Dibenz(a,h)anthracene	**0.12**	**J**	0.14	0.060	mg/Kg	☼	07/13/17 03:37	07/13/17 18:37	20
Dibenzofuran	ND		0.71	0.058	mg/Kg	☼	07/13/17 03:37	07/13/17 18:37	20
2,4-Dinitrotoluene	ND	F2	0.71	0.095	mg/Kg	☼	07/13/17 03:37	07/13/17 18:37	20
1,4-Dioxane	ND	F2	1.4	0.11	mg/Kg	☼	07/13/17 03:37	07/13/17 18:37	20
Fluoranthene	**0.93**	**F1 F2**	0.14	0.057	mg/Kg	☼	07/13/17 03:37	07/13/17 18:37	20
Fluorene	ND	F2	0.14	0.051	mg/Kg	☼	07/13/17 03:37	07/13/17 18:37	20
Hexachlorobenzene	ND		0.14	0.058	mg/Kg	☼	07/13/17 03:37	07/13/17 18:37	20
Hexachlorobutadiene	ND		0.14	0.045	mg/Kg	☼	07/13/17 03:37	07/13/17 18:37	20
Hexachloroethane	ND	F2	0.71	0.052	mg/Kg	☼	07/13/17 03:37	07/13/17 18:37	20
Indeno[1,2,3-cd]pyrene	**0.50**	**F1 F2**	0.14	0.056	mg/Kg	☼	07/13/17 03:37	07/13/17 18:37	20
2-Methylphenol	ND		0.71	0.063	mg/Kg	☼	07/13/17 03:37	07/13/17 18:37	20
Methylphenol, 3 & 4	ND		0.71	0.064	mg/Kg	☼	07/13/17 03:37	07/13/17 18:37	20
Naphthalene	**0.16**		0.14	0.052	mg/Kg	☼	07/13/17 03:37	07/13/17 18:37	20
Nitrobenzene	ND		1.4	0.055	mg/Kg	☼	07/13/17 03:37	07/13/17 18:37	20
Pentachlorophenol	ND	F1	3.7	1.4	mg/Kg	☼	07/13/17 03:37	07/13/17 18:37	20
Phenanthrene	**0.43**	**F1 F2**	0.14	0.060	mg/Kg	☼	07/13/17 03:37	07/13/17 18:37	20
Phenol	ND		0.71	0.097	mg/Kg	☼	07/13/17 03:37	07/13/17 18:37	20
Pyrene	**0.92**	**F1 F2**	0.14	0.064	mg/Kg	☼	07/13/17 03:37	07/13/17 18:37	20

Client Sample ID: W2, S1, C 71117 **Lab Sample ID: 180-68096-6**
Date Collected: 07/11/17 10:55 **Matrix: Solid**
Date Received: 07/12/17 09:10 **Percent Solids: 89.8**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyridine	ND		0.71	0.069	mg/Kg	☼	07/13/17 03:37	07/13/17 18:37	20
2,4,5-Trichlorophenol	ND		0.71	0.068	mg/Kg	☼	07/13/17 03:37	07/13/17 18:37	20
2,4,6-Trichlorophenol	ND		0.71	0.063	mg/Kg	☼	07/13/17 03:37	07/13/17 18:37	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*70*		*42 - 100*	*07/13/17 03:37*	*07/13/17 18:37*	*20*
2-Fluorophenol (Surr)	*61*		*21 - 107*	*07/13/17 03:37*	*07/13/17 18:37*	*20*
Nitrobenzene-d5 (Surr)	*75*		*35 - 109*	*07/13/17 03:37*	*07/13/17 18:37*	*20*
Phenol-d5 (Surr)	*61*		*29 - 105*	*07/13/17 03:37*	*07/13/17 18:37*	*20*
Terphenyl-d14 (Surr)	*87*		*36 - 113*	*07/13/17 03:37*	*07/13/17 18:37*	*20*
2,4,6-Tribromophenol (Surr)	*47*		*20 - 134*	*07/13/17 03:37*	*07/13/17 18:37*	*20*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.018	0.0098	mg/Kg	☼	07/13/17 03:34	07/14/17 14:07	1
PCB-1221	ND		0.018	0.0095	mg/Kg	☼	07/13/17 03:34	07/14/17 14:07	1
PCB-1232	ND		0.018	0.0073	mg/Kg	☼	07/13/17 03:34	07/14/17 14:07	1
PCB-1242	ND		0.018	0.015	mg/Kg	☼	07/13/17 03:34	07/14/17 14:07	1
PCB-1248	**0.84**		0.018	0.0088	mg/Kg	☼	07/13/17 03:34	07/14/17 14:07	1
PCB-1254	**0.64**		0.018	0.0081	mg/Kg	☼	07/13/17 03:34	07/14/17 14:07	1
PCB-1260	**0.19**		0.018	0.012	mg/Kg	☼	07/13/17 03:34	07/14/17 14:07	1
PCB-1262	ND		0.018	0.013	mg/Kg	☼	07/13/17 03:34	07/14/17 14:07	1
PCB-1268	ND		0.018	0.0056	mg/Kg	☼	07/13/17 03:34	07/14/17 14:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*81*		*23 - 150*	*07/13/17 03:34*	*07/14/17 14:07*	*1*
DCB Decachlorobiphenyl (Surr)	*90*		*23 - 150*	*07/13/17 03:34*	*07/14/17 14:07*	*1*
Tetrachloro-m-xylene (Surr)	*90*		*27 - 138*	*07/13/17 03:34*	*07/14/17 14:07*	*1*
Tetrachloro-m-xylene (Surr)	*79*		*27 - 138*	*07/13/17 03:34*	*07/14/17 14:07*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**6.6**		1.1	0.49	mg/Kg	☼	07/13/17 09:05	07/14/17 12:57	1
Barium	**84**		22	5.9	mg/Kg	☼	07/13/17 09:05	07/14/17 12:57	1
Beryllium	**0.35**	**J**	0.44	0.12	mg/Kg	☼	07/13/17 09:05	07/14/17 12:57	1
Cadmium	**0.24**	**J**	0.55	0.12	mg/Kg	☼	07/13/17 09:05	07/14/17 12:57	1
Chromium	**10**		0.55	0.14	mg/Kg	☼	07/13/17 09:05	07/14/17 12:57	1
Copper	**26**	**F1**	2.8	0.85	mg/Kg	☼	07/13/17 09:05	07/14/17 12:57	1
Lead	**33**		1.1	0.36	mg/Kg	☼	07/13/17 09:05	07/14/17 12:57	1
Manganese	**800**	**F2**	1.7	0.45	mg/Kg	☼	07/13/17 09:05	07/14/17 12:57	1
Nickel	**19**		4.4	0.99	mg/Kg	☼	07/13/17 09:05	07/14/17 12:57	1
Selenium	**0.47**	**J**	1.1	0.44	mg/Kg	☼	07/13/17 09:05	07/14/17 12:57	1
Silver	ND		0.55	0.18	mg/Kg	☼	07/13/17 09:05	07/14/17 12:57	1
Zinc	**76**	**F1**	2.2	1.1	mg/Kg	☼	07/13/17 09:05	07/14/17 12:57	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.41**	**F1**	0.036	0.0080	mg/Kg	☼	07/14/17 11:17	07/17/17 09:13	1

Client Sample ID: W2, S1, C 71117 — Lab Sample ID: 180-68096-6

Date Collected: 07/11/17 10:55 — **Matrix: Solid**
Date Received: 07/12/17 09:10 — **Percent Solids: 89.8**

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**10.2**		0.1	0.1	%			07/12/17 15:57	1
Percent Solids	**89.8**		0.1	0.1	%			07/12/17 15:57	1
Cyanide, Total	ND		0.53	0.16	mg/Kg	☼	07/13/17 12:02	07/13/17 15:58	1

Client Sample ID: W2, S2, A 71117 — Lab Sample ID: 180-68096-7

Date Collected: 07/11/17 11:15 — **Matrix: Solid**
Date Received: 07/12/17 09:10 — **Percent Solids: 88.9**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.019	0.0030	mg/Kg	☼	07/13/17 06:04	07/13/17 13:54	1
Benzene	ND		0.0047	0.0019	mg/Kg	☼	07/13/17 06:04	07/13/17 13:54	1
2-Butanone (MEK)	ND		0.0047	0.0027	mg/Kg	☼	07/13/17 06:04	07/13/17 13:54	1
Carbon tetrachloride	ND		0.0047	0.0031	mg/Kg	☼	07/13/17 06:04	07/13/17 13:54	1
Chlorobenzene	ND		0.0047	0.0015	mg/Kg	☼	07/13/17 06:04	07/13/17 13:54	1
Chloroform	ND		0.0047	0.0020	mg/Kg	☼	07/13/17 06:04	07/13/17 13:54	1
cis-1,2-Dichloroethene	ND		0.0047	0.0015	mg/Kg	☼	07/13/17 06:04	07/13/17 13:54	1
1,2-Dichlorobenzene	ND		0.0047	0.0038	mg/Kg	☼	07/13/17 06:04	07/13/17 13:54	1
1,3-Dichlorobenzene	ND		0.0047	0.0015	mg/Kg	☼	07/13/17 06:04	07/13/17 13:54	1
1,4-Dichlorobenzene	ND		0.0047	0.00097	mg/Kg	☼	07/13/17 06:04	07/13/17 13:54	1
1,1-Dichloroethane	ND		0.0047	0.0017	mg/Kg	☼	07/13/17 06:04	07/13/17 13:54	1
1,2-Dichloroethane	ND		0.0047	0.0014	mg/Kg	☼	07/13/17 06:04	07/13/17 13:54	1
1,1-Dichloroethene	ND		0.0047	0.0027	mg/Kg	☼	07/13/17 06:04	07/13/17 13:54	1
Ethylbenzene	ND		0.0047	0.0020	mg/Kg	☼	07/13/17 06:04	07/13/17 13:54	1
Methylene Chloride	ND		0.0047	0.0022	mg/Kg	☼	07/13/17 06:04	07/13/17 13:54	1
Methyl tert-butyl ether	ND		0.0047	0.0035	mg/Kg	☼	07/13/17 06:04	07/13/17 13:54	1
n-Butylbenzene	ND		0.0047	0.0036	mg/Kg	☼	07/13/17 06:04	07/13/17 13:54	1
N-Propylbenzene	ND		0.0047	0.0020	mg/Kg	☼	07/13/17 06:04	07/13/17 13:54	1
sec-Butylbenzene	ND		0.0047	0.0023	mg/Kg	☼	07/13/17 06:04	07/13/17 13:54	1
tert-Butylbenzene	ND		0.0047	0.0017	mg/Kg	☼	07/13/17 06:04	07/13/17 13:54	1
Tetrachloroethene	ND		0.0047	0.0019	mg/Kg	☼	07/13/17 06:04	07/13/17 13:54	1
Toluene	ND		0.0047	0.0016	mg/Kg	☼	07/13/17 06:04	07/13/17 13:54	1
trans-1,2-Dichloroethene	ND		0.0047	0.0024	mg/Kg	☼	07/13/17 06:04	07/13/17 13:54	1
1,1,1-Trichloroethane	ND		0.0047	0.0024	mg/Kg	☼	07/13/17 06:04	07/13/17 13:54	1
Trichloroethene	ND		0.0047	0.0014	mg/Kg	☼	07/13/17 06:04	07/13/17 13:54	1
1,2,4-Trimethylbenzene	ND		0.0047	0.0013	mg/Kg	☼	07/13/17 06:04	07/13/17 13:54	1
1,3,5-Trimethylbenzene	ND		0.0047	0.0016	mg/Kg	☼	07/13/17 06:04	07/13/17 13:54	1
Vinyl chloride	ND		0.0047	0.0035	mg/Kg	☼	07/13/17 06:04	07/13/17 13:54	1
Xylenes, Total	ND		0.0095	0.0041	mg/Kg	☼	07/13/17 06:04	07/13/17 13:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*63 - 120*	*07/13/17 06:04*	*07/13/17 13:54*	*1*
Dibromofluoromethane (Surr)	*89*		*68 - 121*	*07/13/17 06:04*	*07/13/17 13:54*	*1*
1,2-Dichloroethane-d4 (Surr)	*84*		*52 - 124*	*07/13/17 06:04*	*07/13/17 13:54*	*1*
Toluene-d8 (Surr)	*110*		*72 - 127*	*07/13/17 06:04*	*07/13/17 13:54*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**11.1**		0.1	0.1	%			07/12/17 15:57	1
Percent Solids	**88.9**		0.1	0.1	%			07/12/17 15:57	1

Client Sample ID: W2, S2, B 71117 — Lab Sample ID: 180-68096-8

Date Collected: 07/11/17 11:20 — **Matrix: Solid**
Date Received: 07/12/17 09:10 — **Percent Solids: 90.6**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.016	0.0026	mg/Kg	☼	07/13/17 06:04	07/13/17 14:16	1
Benzene	ND		0.0041	0.0016	mg/Kg	☼	07/13/17 06:04	07/13/17 14:16	1
2-Butanone (MEK)	ND		0.0041	0.0024	mg/Kg	☼	07/13/17 06:04	07/13/17 14:16	1
Carbon tetrachloride	ND		0.0041	0.0027	mg/Kg	☼	07/13/17 06:04	07/13/17 14:16	1
Chlorobenzene	ND		0.0041	0.0013	mg/Kg	☼	07/13/17 06:04	07/13/17 14:16	1
Chloroform	ND		0.0041	0.0017	mg/Kg	☼	07/13/17 06:04	07/13/17 14:16	1
cis-1,2-Dichloroethene	ND		0.0041	0.0013	mg/Kg	☼	07/13/17 06:04	07/13/17 14:16	1
1,2-Dichlorobenzene	ND		0.0041	0.0033	mg/Kg	☼	07/13/17 06:04	07/13/17 14:16	1
1,3-Dichlorobenzene	ND		0.0041	0.0013	mg/Kg	☼	07/13/17 06:04	07/13/17 14:16	1
1,4-Dichlorobenzene	ND		0.0041	0.00084	mg/Kg	☼	07/13/17 06:04	07/13/17 14:16	1
1,1-Dichloroethane	ND		0.0041	0.0015	mg/Kg	☼	07/13/17 06:04	07/13/17 14:16	1
1,2-Dichloroethane	ND		0.0041	0.0012	mg/Kg	☼	07/13/17 06:04	07/13/17 14:16	1
1,1-Dichloroethene	ND		0.0041	0.0023	mg/Kg	☼	07/13/17 06:04	07/13/17 14:16	1
Ethylbenzene	ND		0.0041	0.0018	mg/Kg	☼	07/13/17 06:04	07/13/17 14:16	1
Methylene Chloride	ND		0.0041	0.0019	mg/Kg	☼	07/13/17 06:04	07/13/17 14:16	1
Methyl tert-butyl ether	ND		0.0041	0.0030	mg/Kg	☼	07/13/17 06:04	07/13/17 14:16	1
n-Butylbenzene	ND		0.0041	0.0031	mg/Kg	☼	07/13/17 06:04	07/13/17 14:16	1
N-Propylbenzene	ND		0.0041	0.0017	mg/Kg	☼	07/13/17 06:04	07/13/17 14:16	1
sec-Butylbenzene	ND		0.0041	0.0020	mg/Kg	☼	07/13/17 06:04	07/13/17 14:16	1
tert-Butylbenzene	ND		0.0041	0.0015	mg/Kg	☼	07/13/17 06:04	07/13/17 14:16	1
Tetrachloroethene	ND		0.0041	0.0016	mg/Kg	☼	07/13/17 06:04	07/13/17 14:16	1
Toluene	ND		0.0041	0.0014	mg/Kg	☼	07/13/17 06:04	07/13/17 14:16	1
trans-1,2-Dichloroethene	ND		0.0041	0.0021	mg/Kg	☼	07/13/17 06:04	07/13/17 14:16	1
1,1,1-Trichloroethane	ND		0.0041	0.0021	mg/Kg	☼	07/13/17 06:04	07/13/17 14:16	1
Trichloroethene	ND		0.0041	0.0012	mg/Kg	☼	07/13/17 06:04	07/13/17 14:16	1
1,2,4-Trimethylbenzene	ND		0.0041	0.0011	mg/Kg	☼	07/13/17 06:04	07/13/17 14:16	1
1,3,5-Trimethylbenzene	ND		0.0041	0.0014	mg/Kg	☼	07/13/17 06:04	07/13/17 14:16	1
Vinyl chloride	ND		0.0041	0.0030	mg/Kg	☼	07/13/17 06:04	07/13/17 14:16	1
Xylenes, Total	ND		0.0082	0.0035	mg/Kg	☼	07/13/17 06:04	07/13/17 14:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*63 - 120*	*07/13/17 06:04*	*07/13/17 14:16*	*1*
Dibromofluoromethane (Surr)	*87*		*68 - 121*	*07/13/17 06:04*	*07/13/17 14:16*	*1*
1,2-Dichloroethane-d4 (Surr)	*81*		*52 - 124*	*07/13/17 06:04*	*07/13/17 14:16*	*1*
Toluene-d8 (Surr)	*110*		*72 - 127*	*07/13/17 06:04*	*07/13/17 14:16*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.4**		0.1	0.1	%			07/12/17 15:57	1
Percent Solids	**90.6**		0.1	0.1	%			07/12/17 15:57	1

Client Sample ID: W2, S2, C 71117 — Lab Sample ID: 180-68096-9

Date Collected: 07/11/17 11:25 — **Matrix: Solid**
Date Received: 07/12/17 09:10 — **Percent Solids: 88.2**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.038	0.013	mg/Kg	☼	07/13/17 03:37	07/13/17 20:25	5
Acenaphthylene	**0.15**		0.038	0.013	mg/Kg	☼	07/13/17 03:37	07/13/17 20:25	5
Anthracene	**0.19**		0.038	0.014	mg/Kg	☼	07/13/17 03:37	07/13/17 20:25	5

Client Sample ID: W2, S2, C 71117 **Lab Sample ID: 180-68096-9**
Date Collected: 07/11/17 11:25 **Matrix: Solid**
Date Received: 07/12/17 09:10 **Percent Solids: 88.2**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	**0.51**		0.038	0.015	mg/Kg	☼	07/13/17 03:37	07/13/17 20:25	5
Benzo[a]pyrene	**0.55**		0.038	0.015	mg/Kg	☼	07/13/17 03:37	07/13/17 20:25	5
Benzo[b]fluoranthene	**0.63**		0.038	0.016	mg/Kg	☼	07/13/17 03:37	07/13/17 20:25	5
Benzo[g,h,i]perylene	**0.68**		0.038	0.016	mg/Kg	☼	07/13/17 03:37	07/13/17 20:25	5
Benzo[k]fluoranthene	**0.29**		0.038	0.013	mg/Kg	☼	07/13/17 03:37	07/13/17 20:25	5
Chrysene	**0.47**		0.038	0.015	mg/Kg	☼	07/13/17 03:37	07/13/17 20:25	5
Dibenz(a,h)anthracene	**0.16**		0.038	0.015	mg/Kg	☼	07/13/17 03:37	07/13/17 20:25	5
Dibenzofuran	**0.049**	**J**	0.18	0.015	mg/Kg	☼	07/13/17 03:37	07/13/17 20:25	5
2,4-Dinitrotoluene	ND		0.18	0.025	mg/Kg	☼	07/13/17 03:37	07/13/17 20:25	5
1,4-Dioxane	ND		0.37	0.028	mg/Kg	☼	07/13/17 03:37	07/13/17 20:25	5
Fluoranthene	**0.84**		0.038	0.015	mg/Kg	☼	07/13/17 03:37	07/13/17 20:25	5
Fluorene	**0.032**	**J**	0.038	0.013	mg/Kg	☼	07/13/17 03:37	07/13/17 20:25	5
Hexachlorobenzene	ND		0.038	0.015	mg/Kg	☼	07/13/17 03:37	07/13/17 20:25	5
Hexachlorobutadiene	ND		0.038	0.012	mg/Kg	☼	07/13/17 03:37	07/13/17 20:25	5
Hexachloroethane	ND		0.18	0.013	mg/Kg	☼	07/13/17 03:37	07/13/17 20:25	5
Indeno[1,2,3-cd]pyrene	**0.55**		0.038	0.014	mg/Kg	☼	07/13/17 03:37	07/13/17 20:25	5
2-Methylphenol	ND		0.18	0.016	mg/Kg	☼	07/13/17 03:37	07/13/17 20:25	5
Methylphenol, 3 & 4	ND		0.18	0.017	mg/Kg	☼	07/13/17 03:37	07/13/17 20:25	5
Naphthalene	**0.17**		0.038	0.013	mg/Kg	☼	07/13/17 03:37	07/13/17 20:25	5
Nitrobenzene	ND		0.37	0.014	mg/Kg	☼	07/13/17 03:37	07/13/17 20:25	5
Pentachlorophenol	ND		0.95	0.35	mg/Kg	☼	07/13/17 03:37	07/13/17 20:25	5
Phenanthrene	**0.35**		0.038	0.016	mg/Kg	☼	07/13/17 03:37	07/13/17 20:25	5
Phenol	ND		0.18	0.025	mg/Kg	☼	07/13/17 03:37	07/13/17 20:25	5
Pyrene	**0.72**		0.038	0.017	mg/Kg	☼	07/13/17 03:37	07/13/17 20:25	5
Pyridine	ND		0.18	0.018	mg/Kg	☼	07/13/17 03:37	07/13/17 20:25	5
2,4,5-Trichlorophenol	ND		0.18	0.018	mg/Kg	☼	07/13/17 03:37	07/13/17 20:25	5
2,4,6-Trichlorophenol	ND		0.18	0.016	mg/Kg	☼	07/13/17 03:37	07/13/17 20:25	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*59*		*42 - 100*	*07/13/17 03:37*	*07/13/17 20:25*	*5*
2-Fluorophenol (Surr)	*59*		*21 - 107*	*07/13/17 03:37*	*07/13/17 20:25*	*5*
Nitrobenzene-d5 (Surr)	*66*		*35 - 109*	*07/13/17 03:37*	*07/13/17 20:25*	*5*
Phenol-d5 (Surr)	*51*		*29 - 105*	*07/13/17 03:37*	*07/13/17 20:25*	*5*
Terphenyl-d14 (Surr)	*60*		*36 - 113*	*07/13/17 03:37*	*07/13/17 20:25*	*5*
2,4,6-Tribromophenol (Surr)	*58*		*20 - 134*	*07/13/17 03:37*	*07/13/17 20:25*	*5*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.019	0.0099	mg/Kg	☼	07/13/17 03:34	07/14/17 15:48	1
PCB-1221	ND		0.019	0.0097	mg/Kg	☼	07/13/17 03:34	07/14/17 15:48	1
PCB-1232	ND		0.019	0.0074	mg/Kg	☼	07/13/17 03:34	07/14/17 15:48	1
PCB-1242	ND		0.019	0.015	mg/Kg	☼	07/13/17 03:34	07/14/17 15:48	1
PCB-1248	**0.74**		0.019	0.0089	mg/Kg	☼	07/13/17 03:34	07/14/17 15:48	1
PCB-1254	**0.52**		0.019	0.0082	mg/Kg	☼	07/13/17 03:34	07/14/17 15:48	1
PCB-1260	**0.20**		0.019	0.012	mg/Kg	☼	07/13/17 03:34	07/14/17 15:48	1
PCB-1262	ND		0.019	0.013	mg/Kg	☼	07/13/17 03:34	07/14/17 15:48	1
PCB-1268	ND		0.019	0.0057	mg/Kg	☼	07/13/17 03:34	07/14/17 15:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*83*		*23 - 150*	*07/13/17 03:34*	*07/14/17 15:48*	*1*

Client Sample ID: W2, S2, C 71117

Lab Sample ID: 180-68096-9
Date Collected: 07/11/17 11:25
Matrix: Solid
Date Received: 07/12/17 09:10
Percent Solids: 88.2

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*95*		*23 - 150*	*07/13/17 03:34*	*07/14/17 15:48*	*1*
Tetrachloro-m-xylene (Surr)	*89*		*27 - 138*	*07/13/17 03:34*	*07/14/17 15:48*	*1*
Tetrachloro-m-xylene (Surr)	*79*		*27 - 138*	*07/13/17 03:34*	*07/14/17 15:48*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**5.8**		1.2	0.51	mg/Kg	☼	07/13/17 09:05	07/14/17 13:22	1
Barium	**77**		23	6.2	mg/Kg	☼	07/13/17 09:05	07/14/17 13:22	1
Beryllium	**0.31**	**J**	0.46	0.12	mg/Kg	☼	07/13/17 09:05	07/14/17 13:22	1
Cadmium	**0.16**	**J**	0.58	0.13	mg/Kg	☼	07/13/17 09:05	07/14/17 13:22	1
Chromium	**8.5**		0.58	0.15	mg/Kg	☼	07/13/17 09:05	07/14/17 13:22	1
Copper	**28**		2.9	0.89	mg/Kg	☼	07/13/17 09:05	07/14/17 13:22	1
Lead	**40**		1.2	0.38	mg/Kg	☼	07/13/17 09:05	07/14/17 13:22	1
Manganese	**320**		1.7	0.47	mg/Kg	☼	07/13/17 09:05	07/14/17 13:22	1
Nickel	**15**		4.6	1.0	mg/Kg	☼	07/13/17 09:05	07/14/17 13:22	1
Selenium	**0.51**	**J**	1.2	0.46	mg/Kg	☼	07/13/17 09:05	07/14/17 13:22	1
Silver	ND		0.58	0.19	mg/Kg	☼	07/13/17 09:05	07/14/17 13:22	1
Zinc	**76**		2.3	1.2	mg/Kg	☼	07/13/17 09:05	07/14/17 13:22	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.42**		0.035	0.0079	mg/Kg	☼	07/14/17 11:17	07/17/17 09:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**11.8**		0.1	0.1	%			07/12/17 15:57	1
Percent Solids	**88.2**		0.1	0.1	%			07/12/17 15:57	1
Cyanide, Total	ND		0.54	0.17	mg/Kg	☼	07/13/17 12:02	07/13/17 16:07	1

Client Sample ID: W2, S3, A 71117

Lab Sample ID: 180-68096-10
Date Collected: 07/11/17 11:45
Matrix: Solid
Date Received: 07/12/17 09:10
Percent Solids: 90.9

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.032	0.0050	mg/Kg	☼	07/13/17 06:04	07/13/17 14:39	1
Benzene	ND		0.0079	0.0031	mg/Kg	☼	07/13/17 06:04	07/13/17 14:39	1
2-Butanone (MEK)	ND		0.0079	0.0046	mg/Kg	☼	07/13/17 06:04	07/13/17 14:39	1
Carbon tetrachloride	ND		0.0079	0.0052	mg/Kg	☼	07/13/17 06:04	07/13/17 14:39	1
Chlorobenzene	ND		0.0079	0.0025	mg/Kg	☼	07/13/17 06:04	07/13/17 14:39	1
Chloroform	ND		0.0079	0.0033	mg/Kg	☼	07/13/17 06:04	07/13/17 14:39	1
cis-1,2-Dichloroethene	ND		0.0079	0.0025	mg/Kg	☼	07/13/17 06:04	07/13/17 14:39	1
1,2-Dichlorobenzene	ND		0.0079	0.0064	mg/Kg	☼	07/13/17 06:04	07/13/17 14:39	1
1,3-Dichlorobenzene	ND		0.0079	0.0025	mg/Kg	☼	07/13/17 06:04	07/13/17 14:39	1
1,4-Dichlorobenzene	ND		0.0079	0.0016	mg/Kg	☼	07/13/17 06:04	07/13/17 14:39	1
1,1-Dichloroethane	ND		0.0079	0.0029	mg/Kg	☼	07/13/17 06:04	07/13/17 14:39	1
1,2-Dichloroethane	ND		0.0079	0.0023	mg/Kg	☼	07/13/17 06:04	07/13/17 14:39	1
1,1-Dichloroethene	ND		0.0079	0.0045	mg/Kg	☼	07/13/17 06:04	07/13/17 14:39	1
Ethylbenzene	ND		0.0079	0.0034	mg/Kg	☼	07/13/17 06:04	07/13/17 14:39	1
Methylene Chloride	ND		0.0079	0.0037	mg/Kg	☼	07/13/17 06:04	07/13/17 14:39	1

Client Sample ID: W2, S3, A 71117 — Lab Sample ID: 180-68096-10

Date Collected: 07/11/17 11:45 — **Matrix: Solid**
Date Received: 07/12/17 09:10 — **Percent Solids: 90.9**

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.0079	0.0058	mg/Kg	☼	07/13/17 06:04	07/13/17 14:39	1
n-Butylbenzene	ND		0.0079	0.0060	mg/Kg	☼	07/13/17 06:04	07/13/17 14:39	1
N-Propylbenzene	ND		0.0079	0.0033	mg/Kg	☼	07/13/17 06:04	07/13/17 14:39	1
sec-Butylbenzene	ND		0.0079	0.0039	mg/Kg	☼	07/13/17 06:04	07/13/17 14:39	1
tert-Butylbenzene	ND		0.0079	0.0029	mg/Kg	☼	07/13/17 06:04	07/13/17 14:39	1
Tetrachloroethene	ND		0.0079	0.0032	mg/Kg	☼	07/13/17 06:04	07/13/17 14:39	1
Toluene	ND		0.0079	0.0027	mg/Kg	☼	07/13/17 06:04	07/13/17 14:39	1
trans-1,2-Dichloroethene	ND		0.0079	0.0040	mg/Kg	☼	07/13/17 06:04	07/13/17 14:39	1
1,1,1-Trichloroethane	ND		0.0079	0.0040	mg/Kg	☼	07/13/17 06:04	07/13/17 14:39	1
Trichloroethene	ND		0.0079	0.0024	mg/Kg	☼	07/13/17 06:04	07/13/17 14:39	1
1,2,4-Trimethylbenzene	ND		0.0079	0.0021	mg/Kg	☼	07/13/17 06:04	07/13/17 14:39	1
1,3,5-Trimethylbenzene	ND		0.0079	0.0027	mg/Kg	☼	07/13/17 06:04	07/13/17 14:39	1
Vinyl chloride	ND		0.0079	0.0058	mg/Kg	☼	07/13/17 06:04	07/13/17 14:39	1
Xylenes, Total	ND		0.016	0.0068	mg/Kg	☼	07/13/17 06:04	07/13/17 14:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*63 - 120*	*07/13/17 06:04*	*07/13/17 14:39*	*1*
Dibromofluoromethane (Surr)	*87*		*68 - 121*	*07/13/17 06:04*	*07/13/17 14:39*	*1*
1,2-Dichloroethane-d4 (Surr)	*82*		*52 - 124*	*07/13/17 06:04*	*07/13/17 14:39*	*1*
Toluene-d8 (Surr)	*106*		*72 - 127*	*07/13/17 06:04*	*07/13/17 14:39*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.1**		0.1	0.1	%			07/12/17 15:57	1
Percent Solids	**90.9**		0.1	0.1	%			07/12/17 15:57	1

Client Sample ID: W2, S3, B 71117 — Lab Sample ID: 180-68096-11

Date Collected: 07/11/17 11:50 — **Matrix: Solid**
Date Received: 07/12/17 09:10 — **Percent Solids: 93.8**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.020	0.0032	mg/Kg	☼	07/13/17 06:04	07/13/17 15:02	1
Benzene	ND		0.0050	0.0020	mg/Kg	☼	07/13/17 06:04	07/13/17 15:02	1
2-Butanone (MEK)	ND		0.0050	0.0029	mg/Kg	☼	07/13/17 06:04	07/13/17 15:02	1
Carbon tetrachloride	ND		0.0050	0.0033	mg/Kg	☼	07/13/17 06:04	07/13/17 15:02	1
Chlorobenzene	ND		0.0050	0.0016	mg/Kg	☼	07/13/17 06:04	07/13/17 15:02	1
Chloroform	ND		0.0050	0.0021	mg/Kg	☼	07/13/17 06:04	07/13/17 15:02	1
cis-1,2-Dichloroethene	ND		0.0050	0.0016	mg/Kg	☼	07/13/17 06:04	07/13/17 15:02	1
1,2-Dichlorobenzene	ND		0.0050	0.0041	mg/Kg	☼	07/13/17 06:04	07/13/17 15:02	1
1,3-Dichlorobenzene	ND		0.0050	0.0016	mg/Kg	☼	07/13/17 06:04	07/13/17 15:02	1
1,4-Dichlorobenzene	ND		0.0050	0.0010	mg/Kg	☼	07/13/17 06:04	07/13/17 15:02	1
1,1-Dichloroethane	ND		0.0050	0.0018	mg/Kg	☼	07/13/17 06:04	07/13/17 15:02	1
1,2-Dichloroethane	ND		0.0050	0.0015	mg/Kg	☼	07/13/17 06:04	07/13/17 15:02	1
1,1-Dichloroethene	ND		0.0050	0.0029	mg/Kg	☼	07/13/17 06:04	07/13/17 15:02	1
Ethylbenzene	ND		0.0050	0.0022	mg/Kg	☼	07/13/17 06:04	07/13/17 15:02	1
Methylene Chloride	ND		0.0050	0.0024	mg/Kg	☼	07/13/17 06:04	07/13/17 15:02	1
Methyl tert-butyl ether	ND		0.0050	0.0037	mg/Kg	☼	07/13/17 06:04	07/13/17 15:02	1
n-Butylbenzene	ND		0.0050	0.0038	mg/Kg	☼	07/13/17 06:04	07/13/17 15:02	1
N-Propylbenzene	ND		0.0050	0.0021	mg/Kg	☼	07/13/17 06:04	07/13/17 15:02	1

Client Sample ID: W2, S3, B 71117 — Lab Sample ID: 180-68096-11

Date Collected: 07/11/17 11:50 — **Matrix: Solid**
Date Received: 07/12/17 09:10 — **Percent Solids: 93.8**

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		0.0050	0.0025	mg/Kg	☼	07/13/17 06:04	07/13/17 15:02	1
tert-Butylbenzene	ND		0.0050	0.0018	mg/Kg	☼	07/13/17 06:04	07/13/17 15:02	1
Tetrachloroethene	ND		0.0050	0.0020	mg/Kg	☼	07/13/17 06:04	07/13/17 15:02	1
Toluene	ND		0.0050	0.0017	mg/Kg	☼	07/13/17 06:04	07/13/17 15:02	1
trans-1,2-Dichloroethene	ND		0.0050	0.0026	mg/Kg	☼	07/13/17 06:04	07/13/17 15:02	1
1,1,1-Trichloroethane	ND		0.0050	0.0025	mg/Kg	☼	07/13/17 06:04	07/13/17 15:02	1
Trichloroethene	ND		0.0050	0.0015	mg/Kg	☼	07/13/17 06:04	07/13/17 15:02	1
1,2,4-Trimethylbenzene	ND		0.0050	0.0014	mg/Kg	☼	07/13/17 06:04	07/13/17 15:02	1
1,3,5-Trimethylbenzene	ND		0.0050	0.0017	mg/Kg	☼	07/13/17 06:04	07/13/17 15:02	1
Vinyl chloride	ND		0.0050	0.0037	mg/Kg	☼	07/13/17 06:04	07/13/17 15:02	1
Xylenes, Total	ND		0.010	0.0043	mg/Kg	☼	07/13/17 06:04	07/13/17 15:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*82*		*63 - 120*	*07/13/17 06:04*	*07/13/17 15:02*	*1*
Dibromofluoromethane (Surr)	*84*		*68 - 121*	*07/13/17 06:04*	*07/13/17 15:02*	*1*
1,2-Dichloroethane-d4 (Surr)	*76*		*52 - 124*	*07/13/17 06:04*	*07/13/17 15:02*	*1*
Toluene-d8 (Surr)	*108*		*72 - 127*	*07/13/17 06:04*	*07/13/17 15:02*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**6.2**		0.1	0.1	%			07/12/17 15:57	1
Percent Solids	**93.8**		0.1	0.1	%			07/12/17 15:57	1

Client Sample ID: W2, S3, C 71117 — Lab Sample ID: 180-68096-12

Date Collected: 07/11/17 11:55 — **Matrix: Solid**
Date Received: 07/12/17 09:10 — **Percent Solids: 91.0**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.072	0.024	mg/Kg	☼	07/13/17 03:37	07/13/17 20:52	10
Acenaphthylene	**0.23**		0.072	0.024	mg/Kg	☼	07/13/17 03:37	07/13/17 20:52	10
Anthracene	**0.27**		0.072	0.026	mg/Kg	☼	07/13/17 03:37	07/13/17 20:52	10
Benzo[a]anthracene	**0.71**		0.072	0.028	mg/Kg	☼	07/13/17 03:37	07/13/17 20:52	10
Benzo[a]pyrene	**0.72**		0.072	0.030	mg/Kg	☼	07/13/17 03:37	07/13/17 20:52	10
Benzo[b]fluoranthene	**0.99**		0.072	0.031	mg/Kg	☼	07/13/17 03:37	07/13/17 20:52	10
Benzo[g,h,i]perylene	**0.86**		0.072	0.031	mg/Kg	☼	07/13/17 03:37	07/13/17 20:52	10
Benzo[k]fluoranthene	**0.22**		0.072	0.025	mg/Kg	☼	07/13/17 03:37	07/13/17 20:52	10
Chrysene	**0.73**		0.072	0.028	mg/Kg	☼	07/13/17 03:37	07/13/17 20:52	10
Dibenz(a,h)anthracene	**0.18**		0.072	0.030	mg/Kg	☼	07/13/17 03:37	07/13/17 20:52	10
Dibenzofuran	**0.065**	**J**	0.35	0.029	mg/Kg	☼	07/13/17 03:37	07/13/17 20:52	10
2,4-Dinitrotoluene	ND		0.35	0.047	mg/Kg	☼	07/13/17 03:37	07/13/17 20:52	10
1,4-Dioxane	ND		0.71	0.054	mg/Kg	☼	07/13/17 03:37	07/13/17 20:52	10
Fluoranthene	**1.2**		0.072	0.028	mg/Kg	☼	07/13/17 03:37	07/13/17 20:52	10
Fluorene	**0.037**	**J**	0.072	0.025	mg/Kg	☼	07/13/17 03:37	07/13/17 20:52	10
Hexachlorobenzene	ND		0.072	0.029	mg/Kg	☼	07/13/17 03:37	07/13/17 20:52	10
Hexachlorobutadiene	ND		0.072	0.023	mg/Kg	☼	07/13/17 03:37	07/13/17 20:52	10
Hexachloroethane	ND		0.35	0.026	mg/Kg	☼	07/13/17 03:37	07/13/17 20:52	10
Indeno[1,2,3-cd]pyrene	**0.72**		0.072	0.028	mg/Kg	☼	07/13/17 03:37	07/13/17 20:52	10
2-Methylphenol	ND		0.35	0.032	mg/Kg	☼	07/13/17 03:37	07/13/17 20:52	10
Methylphenol, 3 & 4	ND		0.35	0.032	mg/Kg	☼	07/13/17 03:37	07/13/17 20:52	10

Client Sample ID: W2, S3, C 71117 **Lab Sample ID: 180-68096-12**
Date Collected: 07/11/17 11:55 **Matrix: Solid**
Date Received: 07/12/17 09:10 **Percent Solids: 91.0**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**0.22**		0.072	0.026	mg/Kg	☼	07/13/17 03:37	07/13/17 20:52	10
Nitrobenzene	ND		0.71	0.027	mg/Kg	☼	07/13/17 03:37	07/13/17 20:52	10
Pentachlorophenol	ND		1.8	0.68	mg/Kg	☼	07/13/17 03:37	07/13/17 20:52	10
Phenanthrene	**0.56**		0.072	0.030	mg/Kg	☼	07/13/17 03:37	07/13/17 20:52	10
Phenol	ND		0.35	0.048	mg/Kg	☼	07/13/17 03:37	07/13/17 20:52	10
Pyrene	**1.1**		0.072	0.032	mg/Kg	☼	07/13/17 03:37	07/13/17 20:52	10
Pyridine	ND		0.35	0.034	mg/Kg	☼	07/13/17 03:37	07/13/17 20:52	10
2,4,5-Trichlorophenol	ND		0.35	0.034	mg/Kg	☼	07/13/17 03:37	07/13/17 20:52	10
2,4,6-Trichlorophenol	ND		0.35	0.031	mg/Kg	☼	07/13/17 03:37	07/13/17 20:52	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*61*		*42 - 100*	*07/13/17 03:37*	*07/13/17 20:52*	*10*
2-Fluorophenol (Surr)	*52*		*21 - 107*	*07/13/17 03:37*	*07/13/17 20:52*	*10*
Nitrobenzene-d5 (Surr)	*63*		*35 - 109*	*07/13/17 03:37*	*07/13/17 20:52*	*10*
Phenol-d5 (Surr)	*53*		*29 - 105*	*07/13/17 03:37*	*07/13/17 20:52*	*10*
Terphenyl-d14 (Surr)	*64*		*36 - 113*	*07/13/17 03:37*	*07/13/17 20:52*	*10*
2,4,6-Tribromophenol (Surr)	*49*		*20 - 134*	*07/13/17 03:37*	*07/13/17 20:52*	*10*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.018	0.0097	mg/Kg	☼	07/13/17 03:34	07/14/17 16:08	1
PCB-1221	ND		0.018	0.0095	mg/Kg	☼	07/13/17 03:34	07/14/17 16:08	1
PCB-1232	ND		0.018	0.0073	mg/Kg	☼	07/13/17 03:34	07/14/17 16:08	1
PCB-1242	ND		0.018	0.015	mg/Kg	☼	07/13/17 03:34	07/14/17 16:08	1
PCB-1248	**0.69**		0.018	0.0087	mg/Kg	☼	07/13/17 03:34	07/14/17 16:08	1
PCB-1254	**0.56**		0.018	0.0080	mg/Kg	☼	07/13/17 03:34	07/14/17 16:08	1
PCB-1260	**0.16**		0.018	0.012	mg/Kg	☼	07/13/17 03:34	07/14/17 16:08	1
PCB-1262	ND		0.018	0.013	mg/Kg	☼	07/13/17 03:34	07/14/17 16:08	1
PCB-1268	ND		0.018	0.0056	mg/Kg	☼	07/13/17 03:34	07/14/17 16:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*70*		*23 - 150*	*07/13/17 03:34*	*07/14/17 16:08*	*1*
DCB Decachlorobiphenyl (Surr)	*79*		*23 - 150*	*07/13/17 03:34*	*07/14/17 16:08*	*1*
Tetrachloro-m-xylene (Surr)	*77*		*27 - 138*	*07/13/17 03:34*	*07/14/17 16:08*	*1*
Tetrachloro-m-xylene (Surr)	*71*		*27 - 138*	*07/13/17 03:34*	*07/14/17 16:08*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**6.4**		1.1	0.48	mg/Kg	☼	07/13/17 09:05	07/14/17 13:37	1
Barium	**80**		22	5.8	mg/Kg	☼	07/13/17 09:05	07/14/17 13:37	1
Beryllium	**0.33**	**J**	0.44	0.11	mg/Kg	☼	07/13/17 09:05	07/14/17 13:37	1
Cadmium	**0.14**	**J**	0.54	0.12	mg/Kg	☼	07/13/17 09:05	07/14/17 13:37	1
Chromium	**8.5**		0.54	0.14	mg/Kg	☼	07/13/17 09:05	07/14/17 13:37	1
Copper	**86**		2.7	0.84	mg/Kg	☼	07/13/17 09:05	07/14/17 13:37	1
Lead	**50**		1.1	0.36	mg/Kg	☼	07/13/17 09:05	07/14/17 13:37	1
Manganese	**340**		1.6	0.44	mg/Kg	☼	07/13/17 09:05	07/14/17 13:37	1
Nickel	**19**		4.4	0.98	mg/Kg	☼	07/13/17 09:05	07/14/17 13:37	1
Selenium	ND		1.1	0.43	mg/Kg	☼	07/13/17 09:05	07/14/17 13:37	1
Silver	ND		0.54	0.18	mg/Kg	☼	07/13/17 09:05	07/14/17 13:37	1
Zinc	**81**		2.2	1.1	mg/Kg	☼	07/13/17 09:05	07/14/17 13:37	1

Client Sample ID: W2, S3, C 71117

Lab Sample ID: 180-68096-12
Date Collected: 07/11/17 11:55
Matrix: Solid
Date Received: 07/12/17 09:10
Percent Solids: 91.0

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.46		0.033	0.0074	mg/Kg	☼	07/14/17 11:17	07/17/17 09:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.0		0.1	0.1	%			07/12/17 15:57	1
Percent Solids	91.0		0.1	0.1	%			07/12/17 15:57	1
Cyanide, Total	ND		0.53	0.16	mg/Kg	☼	07/13/17 12:02	07/13/17 16:08	1

Client Sample ID: W2, S4, A 71117

Lab Sample ID: 180-68096-13
Date Collected: 07/11/17 12:15
Matrix: Solid
Date Received: 07/12/17 09:10
Percent Solids: 90.1

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.016	0.0025	mg/Kg	☼	07/13/17 06:04	07/13/17 15:24	1
Benzene	ND		0.0040	0.0016	mg/Kg	☼	07/13/17 06:04	07/13/17 15:24	1
2-Butanone (MEK)	ND		0.0040	0.0023	mg/Kg	☼	07/13/17 06:04	07/13/17 15:24	1
Carbon tetrachloride	ND		0.0040	0.0027	mg/Kg	☼	07/13/17 06:04	07/13/17 15:24	1
Chlorobenzene	ND		0.0040	0.0013	mg/Kg	☼	07/13/17 06:04	07/13/17 15:24	1
Chloroform	ND		0.0040	0.0017	mg/Kg	☼	07/13/17 06:04	07/13/17 15:24	1
cis-1,2-Dichloroethene	ND		0.0040	0.0013	mg/Kg	☼	07/13/17 06:04	07/13/17 15:24	1
1,2-Dichlorobenzene	ND		0.0040	0.0033	mg/Kg	☼	07/13/17 06:04	07/13/17 15:24	1
1,3-Dichlorobenzene	ND		0.0040	0.0013	mg/Kg	☼	07/13/17 06:04	07/13/17 15:24	1
1,4-Dichlorobenzene	ND		0.0040	0.00082	mg/Kg	☼	07/13/17 06:04	07/13/17 15:24	1
1,1-Dichloroethane	ND		0.0040	0.0015	mg/Kg	☼	07/13/17 06:04	07/13/17 15:24	1
1,2-Dichloroethane	ND		0.0040	0.0012	mg/Kg	☼	07/13/17 06:04	07/13/17 15:24	1
1,1-Dichloroethene	ND		0.0040	0.0023	mg/Kg	☼	07/13/17 06:04	07/13/17 15:24	1
Ethylbenzene	ND		0.0040	0.0017	mg/Kg	☼	07/13/17 06:04	07/13/17 15:24	1
Methylene Chloride	ND		0.0040	0.0019	mg/Kg	☼	07/13/17 06:04	07/13/17 15:24	1
Methyl tert-butyl ether	ND		0.0040	0.0030	mg/Kg	☼	07/13/17 06:04	07/13/17 15:24	1
n-Butylbenzene	ND		0.0040	0.0031	mg/Kg	☼	07/13/17 06:04	07/13/17 15:24	1
N-Propylbenzene	ND		0.0040	0.0017	mg/Kg	☼	07/13/17 06:04	07/13/17 15:24	1
sec-Butylbenzene	ND		0.0040	0.0020	mg/Kg	☼	07/13/17 06:04	07/13/17 15:24	1
tert-Butylbenzene	ND		0.0040	0.0015	mg/Kg	☼	07/13/17 06:04	07/13/17 15:24	1
Tetrachloroethene	ND		0.0040	0.0016	mg/Kg	☼	07/13/17 06:04	07/13/17 15:24	1
Toluene	ND		0.0040	0.0014	mg/Kg	☼	07/13/17 06:04	07/13/17 15:24	1
trans-1,2-Dichloroethene	ND		0.0040	0.0020	mg/Kg	☼	07/13/17 06:04	07/13/17 15:24	1
1,1,1-Trichloroethane	ND		0.0040	0.0020	mg/Kg	☼	07/13/17 06:04	07/13/17 15:24	1
Trichloroethene	ND		0.0040	0.0012	mg/Kg	☼	07/13/17 06:04	07/13/17 15:24	1
1,2,4-Trimethylbenzene	ND		0.0040	0.0011	mg/Kg	☼	07/13/17 06:04	07/13/17 15:24	1
1,3,5-Trimethylbenzene	ND		0.0040	0.0014	mg/Kg	☼	07/13/17 06:04	07/13/17 15:24	1
Vinyl chloride	ND		0.0040	0.0030	mg/Kg	☼	07/13/17 06:04	07/13/17 15:24	1
Xylenes, Total	ND		0.0081	0.0035	mg/Kg	☼	07/13/17 06:04	07/13/17 15:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*63 - 120*	*07/13/17 06:04*	*07/13/17 15:24*	*1*
Dibromofluoromethane (Surr)	*91*		*68 - 121*	*07/13/17 06:04*	*07/13/17 15:24*	*1*
1,2-Dichloroethane-d4 (Surr)	*87*		*52 - 124*	*07/13/17 06:04*	*07/13/17 15:24*	*1*
Toluene-d8 (Surr)	*115*		*72 - 127*	*07/13/17 06:04*	*07/13/17 15:24*	*1*

Client Sample ID: W2, S4, A 71117

Lab Sample ID: 180-68096-13
Date Collected: 07/11/17 12:15
Matrix: Solid
Date Received: 07/12/17 09:10
Percent Solids: 90.1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.9		0.1	0.1	%			07/12/17 15:57	1
Percent Solids	90.1		0.1	0.1	%			07/12/17 15:57	1

Client Sample ID: W2, S4, B 71117

Lab Sample ID: 180-68096-14
Date Collected: 07/11/17 12:20
Matrix: Solid
Date Received: 07/12/17 09:10
Percent Solids: 90.7

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.024	0.0038	mg/Kg	☼	07/13/17 06:04	07/13/17 15:47	1
Benzene	ND		0.0060	0.0024	mg/Kg	☼	07/13/17 06:04	07/13/17 15:47	1
2-Butanone (MEK)	ND		0.0060	0.0035	mg/Kg	☼	07/13/17 06:04	07/13/17 15:47	1
Carbon tetrachloride	ND		0.0060	0.0040	mg/Kg	☼	07/13/17 06:04	07/13/17 15:47	1
Chlorobenzene	ND		0.0060	0.0019	mg/Kg	☼	07/13/17 06:04	07/13/17 15:47	1
Chloroform	ND		0.0060	0.0025	mg/Kg	☼	07/13/17 06:04	07/13/17 15:47	1
cis-1,2-Dichloroethene	ND		0.0060	0.0019	mg/Kg	☼	07/13/17 06:04	07/13/17 15:47	1
1,2-Dichlorobenzene	ND		0.0060	0.0048	mg/Kg	☼	07/13/17 06:04	07/13/17 15:47	1
1,3-Dichlorobenzene	ND		0.0060	0.0019	mg/Kg	☼	07/13/17 06:04	07/13/17 15:47	1
1,4-Dichlorobenzene	ND		0.0060	0.0012	mg/Kg	☼	07/13/17 06:04	07/13/17 15:47	1
1,1-Dichloroethane	ND		0.0060	0.0022	mg/Kg	☼	07/13/17 06:04	07/13/17 15:47	1
1,2-Dichloroethane	ND		0.0060	0.0017	mg/Kg	☼	07/13/17 06:04	07/13/17 15:47	1
1,1-Dichloroethene	ND		0.0060	0.0034	mg/Kg	☼	07/13/17 06:04	07/13/17 15:47	1
Ethylbenzene	ND		0.0060	0.0026	mg/Kg	☼	07/13/17 06:04	07/13/17 15:47	1
Methylene Chloride	ND		0.0060	0.0028	mg/Kg	☼	07/13/17 06:04	07/13/17 15:47	1
Methyl tert-butyl ether	ND		0.0060	0.0044	mg/Kg	☼	07/13/17 06:04	07/13/17 15:47	1
n-Butylbenzene	ND		0.0060	0.0045	mg/Kg	☼	07/13/17 06:04	07/13/17 15:47	1
N-Propylbenzene	ND		0.0060	0.0025	mg/Kg	☼	07/13/17 06:04	07/13/17 15:47	1
sec-Butylbenzene	ND		0.0060	0.0029	mg/Kg	☼	07/13/17 06:04	07/13/17 15:47	1
tert-Butylbenzene	ND		0.0060	0.0022	mg/Kg	☼	07/13/17 06:04	07/13/17 15:47	1
Tetrachloroethene	ND		0.0060	0.0024	mg/Kg	☼	07/13/17 06:04	07/13/17 15:47	1
Toluene	ND		0.0060	0.0020	mg/Kg	☼	07/13/17 06:04	07/13/17 15:47	1
trans-1,2-Dichloroethene	ND		0.0060	0.0030	mg/Kg	☼	07/13/17 06:04	07/13/17 15:47	1
1,1,1-Trichloroethane	ND		0.0060	0.0030	mg/Kg	☼	07/13/17 06:04	07/13/17 15:47	1
Trichloroethene	ND		0.0060	0.0018	mg/Kg	☼	07/13/17 06:04	07/13/17 15:47	1
1,2,4-Trimethylbenzene	ND		0.0060	0.0016	mg/Kg	☼	07/13/17 06:04	07/13/17 15:47	1
1,3,5-Trimethylbenzene	ND		0.0060	0.0021	mg/Kg	☼	07/13/17 06:04	07/13/17 15:47	1
Vinyl chloride	ND		0.0060	0.0044	mg/Kg	☼	07/13/17 06:04	07/13/17 15:47	1
Xylenes, Total	ND		0.012	0.0052	mg/Kg	☼	07/13/17 06:04	07/13/17 15:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*63 - 120*	*07/13/17 06:04*	*07/13/17 15:47*	*1*
Dibromofluoromethane (Surr)	*88*		*68 - 121*	*07/13/17 06:04*	*07/13/17 15:47*	*1*
1,2-Dichloroethane-d4 (Surr)	*81*		*52 - 124*	*07/13/17 06:04*	*07/13/17 15:47*	*1*
Toluene-d8 (Surr)	*114*		*72 - 127*	*07/13/17 06:04*	*07/13/17 15:47*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.3		0.1	0.1	%			07/12/17 15:57	1
Percent Solids	90.7		0.1	0.1	%			07/12/17 15:57	1

Client Sample ID: W2, S4, C 71117
Date Collected: 07/11/17 12:25
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-15
Matrix: Solid
Percent Solids: 91.5

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.014**	**J**	0.037	0.012	mg/Kg	☼	07/13/17 03:37	07/13/17 21:20	5
Acenaphthylene	**0.18**		0.037	0.012	mg/Kg	☼	07/13/17 03:37	07/13/17 21:20	5
Anthracene	**0.21**		0.037	0.013	mg/Kg	☼	07/13/17 03:37	07/13/17 21:20	5
Benzo[a]anthracene	**0.68**		0.037	0.014	mg/Kg	☼	07/13/17 03:37	07/13/17 21:20	5
Benzo[a]pyrene	**0.69**		0.037	0.015	mg/Kg	☼	07/13/17 03:37	07/13/17 21:20	5
Benzo[b]fluoranthene	**0.80**		0.037	0.016	mg/Kg	☼	07/13/17 03:37	07/13/17 21:20	5
Benzo[g,h,i]perylene	**0.84**		0.037	0.016	mg/Kg	☼	07/13/17 03:37	07/13/17 21:20	5
Benzo[k]fluoranthene	**0.34**		0.037	0.013	mg/Kg	☼	07/13/17 03:37	07/13/17 21:20	5
Chrysene	**0.67**		0.037	0.014	mg/Kg	☼	07/13/17 03:37	07/13/17 21:20	5
Dibenz(a,h)anthracene	**0.19**		0.037	0.015	mg/Kg	☼	07/13/17 03:37	07/13/17 21:20	5
Dibenzofuran	**0.057**	**J**	0.18	0.015	mg/Kg	☼	07/13/17 03:37	07/13/17 21:20	5
2,4-Dinitrotoluene	ND		0.18	0.024	mg/Kg	☼	07/13/17 03:37	07/13/17 21:20	5
1,4-Dioxane	ND		0.36	0.027	mg/Kg	☼	07/13/17 03:37	07/13/17 21:20	5
Fluoranthene	**1.1**		0.037	0.014	mg/Kg	☼	07/13/17 03:37	07/13/17 21:20	5
Fluorene	**0.039**		0.037	0.013	mg/Kg	☼	07/13/17 03:37	07/13/17 21:20	5
Hexachlorobenzene	ND		0.037	0.015	mg/Kg	☼	07/13/17 03:37	07/13/17 21:20	5
Hexachlorobutadiene	ND		0.037	0.011	mg/Kg	☼	07/13/17 03:37	07/13/17 21:20	5
Hexachloroethane	ND		0.18	0.013	mg/Kg	☼	07/13/17 03:37	07/13/17 21:20	5
Indeno[1,2,3-cd]pyrene	**0.71**		0.037	0.014	mg/Kg	☼	07/13/17 03:37	07/13/17 21:20	5
2-Methylphenol	ND		0.18	0.016	mg/Kg	☼	07/13/17 03:37	07/13/17 21:20	5
Methylphenol, 3 & 4	ND		0.18	0.016	mg/Kg	☼	07/13/17 03:37	07/13/17 21:20	5
Naphthalene	**0.21**		0.037	0.013	mg/Kg	☼	07/13/17 03:37	07/13/17 21:20	5
Nitrobenzene	ND		0.36	0.014	mg/Kg	☼	07/13/17 03:37	07/13/17 21:20	5
Pentachlorophenol	ND		0.93	0.34	mg/Kg	☼	07/13/17 03:37	07/13/17 21:20	5
Phenanthrene	**0.50**		0.037	0.015	mg/Kg	☼	07/13/17 03:37	07/13/17 21:20	5
Phenol	ND		0.18	0.025	mg/Kg	☼	07/13/17 03:37	07/13/17 21:20	5
Pyrene	**0.97**		0.037	0.016	mg/Kg	☼	07/13/17 03:37	07/13/17 21:20	5
Pyridine	ND		0.18	0.017	mg/Kg	☼	07/13/17 03:37	07/13/17 21:20	5
2,4,5-Trichlorophenol	ND		0.18	0.017	mg/Kg	☼	07/13/17 03:37	07/13/17 21:20	5
2,4,6-Trichlorophenol	ND		0.18	0.016	mg/Kg	☼	07/13/17 03:37	07/13/17 21:20	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*51*		*42 - 100*	*07/13/17 03:37*	*07/13/17 21:20*	*5*
2-Fluorophenol (Surr)	*50*		*21 - 107*	*07/13/17 03:37*	*07/13/17 21:20*	*5*
Nitrobenzene-d5 (Surr)	*57*		*35 - 109*	*07/13/17 03:37*	*07/13/17 21:20*	*5*
Phenol-d5 (Surr)	*45*		*29 - 105*	*07/13/17 03:37*	*07/13/17 21:20*	*5*
Terphenyl-d14 (Surr)	*50*		*36 - 113*	*07/13/17 03:37*	*07/13/17 21:20*	*5*
2,4,6-Tribromophenol (Surr)	*56*		*20 - 134*	*07/13/17 03:37*	*07/13/17 21:20*	*5*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.018	0.0097	mg/Kg	☼	07/13/17 03:34	07/14/17 16:28	1
PCB-1221	ND		0.018	0.0094	mg/Kg	☼	07/13/17 03:34	07/14/17 16:28	1
PCB-1232	ND		0.018	0.0072	mg/Kg	☼	07/13/17 03:34	07/14/17 16:28	1
PCB-1242	ND		0.018	0.014	mg/Kg	☼	07/13/17 03:34	07/14/17 16:28	1
PCB-1248	**0.70**		0.018	0.0087	mg/Kg	☼	07/13/17 03:34	07/14/17 16:28	1
PCB-1254	**0.48**		0.018	0.0080	mg/Kg	☼	07/13/17 03:34	07/14/17 16:28	1
PCB-1260	**0.16**		0.018	0.012	mg/Kg	☼	07/13/17 03:34	07/14/17 16:28	1
PCB-1262	ND		0.018	0.013	mg/Kg	☼	07/13/17 03:34	07/14/17 16:28	1
PCB-1268	ND		0.018	0.0055	mg/Kg	☼	07/13/17 03:34	07/14/17 16:28	1

Client Sample ID: W2, S4, C 71117

Lab Sample ID: 180-68096-15

Date Collected: 07/11/17 12:25
Matrix: Solid
Date Received: 07/12/17 09:10
Percent Solids: 91.5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*68*		*23 - 150*	*07/13/17 03:34*	*07/14/17 16:28*	*1*
DCB Decachlorobiphenyl (Surr)	*81*		*23 - 150*	*07/13/17 03:34*	*07/14/17 16:28*	*1*
Tetrachloro-m-xylene (Surr)	*72*		*27 - 138*	*07/13/17 03:34*	*07/14/17 16:28*	*1*
Tetrachloro-m-xylene (Surr)	*64*		*27 - 138*	*07/13/17 03:34*	*07/14/17 16:28*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**5.5**		1.0	0.46	mg/Kg	☼	07/13/17 09:05	07/14/17 13:42	1
Barium	**86**		21	5.6	mg/Kg	☼	07/13/17 09:05	07/14/17 13:42	1
Beryllium	**0.32**	**J**	0.42	0.11	mg/Kg	☼	07/13/17 09:05	07/14/17 13:42	1
Cadmium	**0.16**	**J**	0.52	0.12	mg/Kg	☼	07/13/17 09:05	07/14/17 13:42	1
Chromium	**7.9**		0.52	0.14	mg/Kg	☼	07/13/17 09:05	07/14/17 13:42	1
Copper	**32**		2.6	0.80	mg/Kg	☼	07/13/17 09:05	07/14/17 13:42	1
Lead	**36**		1.0	0.34	mg/Kg	☼	07/13/17 09:05	07/14/17 13:42	1
Manganese	**360**		1.6	0.42	mg/Kg	☼	07/13/17 09:05	07/14/17 13:42	1
Nickel	**14**		4.2	0.94	mg/Kg	☼	07/13/17 09:05	07/14/17 13:42	1
Selenium	**0.84**	**J**	1.0	0.41	mg/Kg	☼	07/13/17 09:05	07/14/17 13:42	1
Silver	ND		0.52	0.17	mg/Kg	☼	07/13/17 09:05	07/14/17 13:42	1
Zinc	**69**		2.1	1.1	mg/Kg	☼	07/13/17 09:05	07/14/17 13:42	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.65**		0.035	0.0079	mg/Kg	☼	07/14/17 11:17	07/17/17 09:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**8.5**		0.1	0.1	%			07/12/17 15:57	1
Percent Solids	**91.5**		0.1	0.1	%			07/12/17 15:57	1
Cyanide, Total	**0.29**	**J**	0.53	0.16	mg/Kg	☼	07/13/17 12:02	07/13/17 16:10	1

Client Sample ID: W2, S5 A 71117

Lab Sample ID: 180-68096-16

Date Collected: 07/11/17 12:45
Matrix: Solid
Date Received: 07/12/17 09:10
Percent Solids: 91.9

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.043	0.0067	mg/Kg	☼	07/13/17 06:04	07/13/17 16:10	1
Benzene	ND		0.011	0.0042	mg/Kg	☼	07/13/17 06:04	07/13/17 16:10	1
2-Butanone (MEK)	ND		0.011	0.0062	mg/Kg	☼	07/13/17 06:04	07/13/17 16:10	1
Carbon tetrachloride	ND		0.011	0.0071	mg/Kg	☼	07/13/17 06:04	07/13/17 16:10	1
Chlorobenzene	ND		0.011	0.0034	mg/Kg	☼	07/13/17 06:04	07/13/17 16:10	1
Chloroform	ND		0.011	0.0045	mg/Kg	☼	07/13/17 06:04	07/13/17 16:10	1
cis-1,2-Dichloroethene	ND		0.011	0.0034	mg/Kg	☼	07/13/17 06:04	07/13/17 16:10	1
1,2-Dichlorobenzene	ND		0.011	0.0086	mg/Kg	☼	07/13/17 06:04	07/13/17 16:10	1
1,3-Dichlorobenzene	ND		0.011	0.0034	mg/Kg	☼	07/13/17 06:04	07/13/17 16:10	1
1,4-Dichlorobenzene	ND		0.011	0.0022	mg/Kg	☼	07/13/17 06:04	07/13/17 16:10	1
1,1-Dichloroethane	ND		0.011	0.0039	mg/Kg	☼	07/13/17 06:04	07/13/17 16:10	1
1,2-Dichloroethane	ND		0.011	0.0031	mg/Kg	☼	07/13/17 06:04	07/13/17 16:10	1
1,1-Dichloroethene	ND		0.011	0.0061	mg/Kg	☼	07/13/17 06:04	07/13/17 16:10	1
Ethylbenzene	ND		0.011	0.0046	mg/Kg	☼	07/13/17 06:04	07/13/17 16:10	1
Methylene Chloride	ND		0.011	0.0050	mg/Kg	☼	07/13/17 06:04	07/13/17 16:10	1

Client Sample ID: W2, S5 A 71117 — Lab Sample ID: 180-68096-16

Date Collected: 07/11/17 12:45 — **Matrix: Solid**
Date Received: 07/12/17 09:10 — **Percent Solids: 91.9**

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.011	0.0079	mg/Kg	☼	07/13/17 06:04	07/13/17 16:10	1
n-Butylbenzene	ND		0.011	0.0081	mg/Kg	☼	07/13/17 06:04	07/13/17 16:10	1
N-Propylbenzene	ND		0.011	0.0045	mg/Kg	☼	07/13/17 06:04	07/13/17 16:10	1
sec-Butylbenzene	ND		0.011	0.0052	mg/Kg	☼	07/13/17 06:04	07/13/17 16:10	1
tert-Butylbenzene	ND		0.011	0.0039	mg/Kg	☼	07/13/17 06:04	07/13/17 16:10	1
Tetrachloroethene	ND		0.011	0.0043	mg/Kg	☼	07/13/17 06:04	07/13/17 16:10	1
Toluene	ND		0.011	0.0036	mg/Kg	☼	07/13/17 06:04	07/13/17 16:10	1
trans-1,2-Dichloroethene	ND		0.011	0.0054	mg/Kg	☼	07/13/17 06:04	07/13/17 16:10	1
1,1,1-Trichloroethane	ND		0.011	0.0054	mg/Kg	☼	07/13/17 06:04	07/13/17 16:10	1
Trichloroethene	ND		0.011	0.0032	mg/Kg	☼	07/13/17 06:04	07/13/17 16:10	1
1,2,4-Trimethylbenzene	ND		0.011	0.0029	mg/Kg	☼	07/13/17 06:04	07/13/17 16:10	1
1,3,5-Trimethylbenzene	ND		0.011	0.0037	mg/Kg	☼	07/13/17 06:04	07/13/17 16:10	1
Vinyl chloride	ND		0.011	0.0078	mg/Kg	☼	07/13/17 06:04	07/13/17 16:10	1
Xylenes, Total	ND		0.021	0.0092	mg/Kg	☼	07/13/17 06:04	07/13/17 16:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*83*		*63 - 120*	*07/13/17 06:04*	*07/13/17 16:10*	*1*
Dibromofluoromethane (Surr)	*85*		*68 - 121*	*07/13/17 06:04*	*07/13/17 16:10*	*1*
1,2-Dichloroethane-d4 (Surr)	*81*		*52 - 124*	*07/13/17 06:04*	*07/13/17 16:10*	*1*
Toluene-d8 (Surr)	*104*		*72 - 127*	*07/13/17 06:04*	*07/13/17 16:10*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**8.1**		0.1	0.1	%			07/12/17 15:57	1
Percent Solids	**91.9**		0.1	0.1	%			07/12/17 15:57	1

Client Sample ID: W2, S5 B 71117 — Lab Sample ID: 180-68096-17

Date Collected: 07/11/17 12:50 — **Matrix: Solid**
Date Received: 07/12/17 09:10 — **Percent Solids: 91.0**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.016	0.0025	mg/Kg	☼	07/13/17 06:04	07/13/17 16:33	1
Benzene	ND		0.0040	0.0016	mg/Kg	☼	07/13/17 06:04	07/13/17 16:33	1
2-Butanone (MEK)	ND		0.0040	0.0023	mg/Kg	☼	07/13/17 06:04	07/13/17 16:33	1
Carbon tetrachloride	ND		0.0040	0.0026	mg/Kg	☼	07/13/17 06:04	07/13/17 16:33	1
Chlorobenzene	ND		0.0040	0.0013	mg/Kg	☼	07/13/17 06:04	07/13/17 16:33	1
Chloroform	ND		0.0040	0.0017	mg/Kg	☼	07/13/17 06:04	07/13/17 16:33	1
cis-1,2-Dichloroethene	ND		0.0040	0.0013	mg/Kg	☼	07/13/17 06:04	07/13/17 16:33	1
1,2-Dichlorobenzene	ND		0.0040	0.0032	mg/Kg	☼	07/13/17 06:04	07/13/17 16:33	1
1,3-Dichlorobenzene	ND		0.0040	0.0013	mg/Kg	☼	07/13/17 06:04	07/13/17 16:33	1
1,4-Dichlorobenzene	ND		0.0040	0.00081	mg/Kg	☼	07/13/17 06:04	07/13/17 16:33	1
1,1-Dichloroethane	ND		0.0040	0.0014	mg/Kg	☼	07/13/17 06:04	07/13/17 16:33	1
1,2-Dichloroethane	ND		0.0040	0.0012	mg/Kg	☼	07/13/17 06:04	07/13/17 16:33	1
1,1-Dichloroethene	ND		0.0040	0.0023	mg/Kg	☼	07/13/17 06:04	07/13/17 16:33	1
Ethylbenzene	ND		0.0040	0.0017	mg/Kg	☼	07/13/17 06:04	07/13/17 16:33	1
Methylene Chloride	ND		0.0040	0.0019	mg/Kg	☼	07/13/17 06:04	07/13/17 16:33	1
Methyl tert-butyl ether	ND		0.0040	0.0029	mg/Kg	☼	07/13/17 06:04	07/13/17 16:33	1
n-Butylbenzene	ND		0.0040	0.0030	mg/Kg	☼	07/13/17 06:04	07/13/17 16:33	1
N-Propylbenzene	ND		0.0040	0.0017	mg/Kg	☼	07/13/17 06:04	07/13/17 16:33	1

Client Sample ID: W2, S5 B 71117 — Lab Sample ID: 180-68096-17

Date Collected: 07/11/17 12:50 — **Matrix: Solid**
Date Received: 07/12/17 09:10 — **Percent Solids: 91.0**

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		0.0040	0.0019	mg/Kg	☼	07/13/17 06:04	07/13/17 16:33	1
tert-Butylbenzene	ND		0.0040	0.0015	mg/Kg	☼	07/13/17 06:04	07/13/17 16:33	1
Tetrachloroethene	ND		0.0040	0.0016	mg/Kg	☼	07/13/17 06:04	07/13/17 16:33	1
Toluene	ND		0.0040	0.0013	mg/Kg	☼	07/13/17 06:04	07/13/17 16:33	1
trans-1,2-Dichloroethene	ND		0.0040	0.0020	mg/Kg	☼	07/13/17 06:04	07/13/17 16:33	1
1,1,1-Trichloroethane	ND		0.0040	0.0020	mg/Kg	☼	07/13/17 06:04	07/13/17 16:33	1
Trichloroethene	ND		0.0040	0.0012	mg/Kg	☼	07/13/17 06:04	07/13/17 16:33	1
1,2,4-Trimethylbenzene	ND		0.0040	0.0011	mg/Kg	☼	07/13/17 06:04	07/13/17 16:33	1
1,3,5-Trimethylbenzene	ND		0.0040	0.0014	mg/Kg	☼	07/13/17 06:04	07/13/17 16:33	1
Vinyl chloride	ND		0.0040	0.0029	mg/Kg	☼	07/13/17 06:04	07/13/17 16:33	1
Xylenes, Total	ND		0.0080	0.0034	mg/Kg	☼	07/13/17 06:04	07/13/17 16:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*63 - 120*	*07/13/17 06:04*	*07/13/17 16:33*	*1*
Dibromofluoromethane (Surr)	*95*		*68 - 121*	*07/13/17 06:04*	*07/13/17 16:33*	*1*
1,2-Dichloroethane-d4 (Surr)	*89*		*52 - 124*	*07/13/17 06:04*	*07/13/17 16:33*	*1*
Toluene-d8 (Surr)	*123*		*72 - 127*	*07/13/17 06:04*	*07/13/17 16:33*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.0**		0.1	0.1	%			07/12/17 15:57	1
Percent Solids	**91.0**		0.1	0.1	%			07/12/17 15:57	1

Client Sample ID: W2, S5 C 71117 — Lab Sample ID: 180-68096-18

Date Collected: 07/11/17 12:55 — **Matrix: Solid**
Date Received: 07/12/17 09:10 — **Percent Solids: 91.3**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.063**		0.036	0.012	mg/Kg	☼	07/13/17 03:37	07/13/17 21:47	5
Acenaphthylene	**0.40**		0.036	0.012	mg/Kg	☼	07/13/17 03:37	07/13/17 21:47	5
Anthracene	**1.5**		0.036	0.013	mg/Kg	☼	07/13/17 03:37	07/13/17 21:47	5
Benzo[a]anthracene	**2.3**		0.036	0.014	mg/Kg	☼	07/13/17 03:37	07/13/17 21:47	5
Benzo[a]pyrene	**1.9**		0.036	0.015	mg/Kg	☼	07/13/17 03:37	07/13/17 21:47	5
Benzo[b]fluoranthene	**2.2**		0.036	0.016	mg/Kg	☼	07/13/17 03:37	07/13/17 21:47	5
Benzo[g,h,i]perylene	**1.9**		0.036	0.016	mg/Kg	☼	07/13/17 03:37	07/13/17 21:47	5
Benzo[k]fluoranthene	**0.88**		0.036	0.013	mg/Kg	☼	07/13/17 03:37	07/13/17 21:47	5
Chrysene	**2.1**		0.036	0.014	mg/Kg	☼	07/13/17 03:37	07/13/17 21:47	5
Dibenz(a,h)anthracene	**0.41**		0.036	0.015	mg/Kg	☼	07/13/17 03:37	07/13/17 21:47	5
Dibenzofuran	**0.17**	**J**	0.18	0.015	mg/Kg	☼	07/13/17 03:37	07/13/17 21:47	5
2,4-Dinitrotoluene	ND		0.18	0.024	mg/Kg	☼	07/13/17 03:37	07/13/17 21:47	5
1,4-Dioxane	ND		0.36	0.027	mg/Kg	☼	07/13/17 03:37	07/13/17 21:47	5
Fluoranthene	**5.7**		0.036	0.014	mg/Kg	☼	07/13/17 03:37	07/13/17 21:47	5
Fluorene	**0.23**		0.036	0.013	mg/Kg	☼	07/13/17 03:37	07/13/17 21:47	5
Hexachlorobenzene	ND		0.036	0.015	mg/Kg	☼	07/13/17 03:37	07/13/17 21:47	5
Hexachlorobutadiene	ND		0.036	0.011	mg/Kg	☼	07/13/17 03:37	07/13/17 21:47	5
Hexachloroethane	ND		0.18	0.013	mg/Kg	☼	07/13/17 03:37	07/13/17 21:47	5
Indeno[1,2,3-cd]pyrene	**1.7**		0.036	0.014	mg/Kg	☼	07/13/17 03:37	07/13/17 21:47	5
2-Methylphenol	ND		0.18	0.016	mg/Kg	☼	07/13/17 03:37	07/13/17 21:47	5
Methylphenol, 3 & 4	**0.019**	**J**	0.18	0.016	mg/Kg	☼	07/13/17 03:37	07/13/17 21:47	5

Client Sample ID: W2, S5 C 71117
Date Collected: 07/11/17 12:55
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-18
Matrix: Solid
Percent Solids: 91.3

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**0.38**		0.036	0.013	mg/Kg	☼	07/13/17 03:37	07/13/17 21:47	5
Nitrobenzene	ND		0.36	0.014	mg/Kg	☼	07/13/17 03:37	07/13/17 21:47	5
Pentachlorophenol	ND		0.92	0.34	mg/Kg	☼	07/13/17 03:37	07/13/17 21:47	5
Phenanthrene	**3.7**		0.036	0.015	mg/Kg	☼	07/13/17 03:37	07/13/17 21:47	5
Phenol	ND		0.18	0.025	mg/Kg	☼	07/13/17 03:37	07/13/17 21:47	5
Pyrene	**3.8**		0.036	0.016	mg/Kg	☼	07/13/17 03:37	07/13/17 21:47	5
Pyridine	ND		0.18	0.017	mg/Kg	☼	07/13/17 03:37	07/13/17 21:47	5
2,4,5-Trichlorophenol	ND		0.18	0.017	mg/Kg	☼	07/13/17 03:37	07/13/17 21:47	5
2,4,6-Trichlorophenol	ND		0.18	0.016	mg/Kg	☼	07/13/17 03:37	07/13/17 21:47	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*62*		*42 - 100*	*07/13/17 03:37*	*07/13/17 21:47*	*5*
2-Fluorophenol (Surr)	*58*		*21 - 107*	*07/13/17 03:37*	*07/13/17 21:47*	*5*
Nitrobenzene-d5 (Surr)	*66*		*35 - 109*	*07/13/17 03:37*	*07/13/17 21:47*	*5*
Phenol-d5 (Surr)	*53*		*29 - 105*	*07/13/17 03:37*	*07/13/17 21:47*	*5*
Terphenyl-d14 (Surr)	*54*		*36 - 113*	*07/13/17 03:37*	*07/13/17 21:47*	*5*
2,4,6-Tribromophenol (Surr)	*63*		*20 - 134*	*07/13/17 03:37*	*07/13/17 21:47*	*5*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.018	0.0094	mg/Kg	☼	07/13/17 03:34	07/14/17 16:48	1
PCB-1221	ND		0.018	0.0092	mg/Kg	☼	07/13/17 03:34	07/14/17 16:48	1
PCB-1232	ND		0.018	0.0070	mg/Kg	☼	07/13/17 03:34	07/14/17 16:48	1
PCB-1242	ND		0.018	0.014	mg/Kg	☼	07/13/17 03:34	07/14/17 16:48	1
PCB-1248	**0.70**		0.018	0.0085	mg/Kg	☼	07/13/17 03:34	07/14/17 16:48	1
PCB-1254	**0.48**		0.018	0.0078	mg/Kg	☼	07/13/17 03:34	07/14/17 16:48	1
PCB-1260	**0.17**		0.018	0.012	mg/Kg	☼	07/13/17 03:34	07/14/17 16:48	1
PCB-1262	ND		0.018	0.013	mg/Kg	☼	07/13/17 03:34	07/14/17 16:48	1
PCB-1268	ND		0.018	0.0054	mg/Kg	☼	07/13/17 03:34	07/14/17 16:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*70*		*23 - 150*	*07/13/17 03:34*	*07/14/17 16:48*	*1*
DCB Decachlorobiphenyl (Surr)	*81*		*23 - 150*	*07/13/17 03:34*	*07/14/17 16:48*	*1*
Tetrachloro-m-xylene (Surr)	*78*		*27 - 138*	*07/13/17 03:34*	*07/14/17 16:48*	*1*
Tetrachloro-m-xylene (Surr)	*70*		*27 - 138*	*07/13/17 03:34*	*07/14/17 16:48*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**5.4**		1.0	0.46	mg/Kg	☼	07/13/17 09:05	07/14/17 13:48	1
Barium	**69**		21	5.6	mg/Kg	☼	07/13/17 09:05	07/14/17 13:48	1
Beryllium	**0.27**	**J**	0.42	0.11	mg/Kg	☼	07/13/17 09:05	07/14/17 13:48	1
Cadmium	**0.17**	**J**	0.52	0.12	mg/Kg	☼	07/13/17 09:05	07/14/17 13:48	1
Chromium	**8.7**		0.52	0.14	mg/Kg	☼	07/13/17 09:05	07/14/17 13:48	1
Copper	**34**		2.6	0.80	mg/Kg	☼	07/13/17 09:05	07/14/17 13:48	1
Lead	**44**		1.0	0.34	mg/Kg	☼	07/13/17 09:05	07/14/17 13:48	1
Manganese	**270**		1.6	0.42	mg/Kg	☼	07/13/17 09:05	07/14/17 13:48	1
Nickel	**13**		4.2	0.94	mg/Kg	☼	07/13/17 09:05	07/14/17 13:48	1
Selenium	ND		1.0	0.41	mg/Kg	☼	07/13/17 09:05	07/14/17 13:48	1
Silver	ND		0.52	0.17	mg/Kg	☼	07/13/17 09:05	07/14/17 13:48	1
Zinc	**75**		2.1	1.1	mg/Kg	☼	07/13/17 09:05	07/14/17 13:48	1

Client Sample ID: W2, S5 C 71117

Lab Sample ID: 180-68096-18
Date Collected: 07/11/17 12:55
Matrix: Solid
Date Received: 07/12/17 09:10
Percent Solids: 91.3

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.69		0.037	0.0082	mg/Kg	☼	07/14/17 11:17	07/17/17 09:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	8.7		0.1	0.1	%			07/12/17 16:42	1
Percent Solids	91.3		0.1	0.1	%			07/12/17 16:42	1
Cyanide, Total	ND		0.53	0.16	mg/Kg	☼	07/13/17 12:02	07/13/17 16:12	1

Client Sample ID: W3, S1 A 71117

Lab Sample ID: 180-68096-19
Date Collected: 07/11/17 13:15
Matrix: Solid
Date Received: 07/12/17 09:10
Percent Solids: 91.3

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.023	0.0036	mg/Kg	☼	07/16/17 09:00	07/16/17 11:57	1
Benzene	ND		0.0057	0.0022	mg/Kg	☼	07/16/17 09:00	07/16/17 11:57	1
2-Butanone (MEK)	ND		0.0057	0.0033	mg/Kg	☼	07/16/17 09:00	07/16/17 11:57	1
Carbon tetrachloride	ND		0.0057	0.0038	mg/Kg	☼	07/16/17 09:00	07/16/17 11:57	1
Chlorobenzene	ND		0.0057	0.0018	mg/Kg	☼	07/16/17 09:00	07/16/17 11:57	1
Chloroform	ND		0.0057	0.0024	mg/Kg	☼	07/16/17 09:00	07/16/17 11:57	1
cis-1,2-Dichloroethene	ND		0.0057	0.0018	mg/Kg	☼	07/16/17 09:00	07/16/17 11:57	1
1,2-Dichlorobenzene	ND		0.0057	0.0046	mg/Kg	☼	07/16/17 09:00	07/16/17 11:57	1
1,3-Dichlorobenzene	ND		0.0057	0.0018	mg/Kg	☼	07/16/17 09:00	07/16/17 11:57	1
1,4-Dichlorobenzene	ND		0.0057	0.0012	mg/Kg	☼	07/16/17 09:00	07/16/17 11:57	1
1,1-Dichloroethane	ND		0.0057	0.0021	mg/Kg	☼	07/16/17 09:00	07/16/17 11:57	1
1,2-Dichloroethane	ND		0.0057	0.0016	mg/Kg	☼	07/16/17 09:00	07/16/17 11:57	1
1,1-Dichloroethene	ND		0.0057	0.0032	mg/Kg	☼	07/16/17 09:00	07/16/17 11:57	1
Ethylbenzene	ND		0.0057	0.0024	mg/Kg	☼	07/16/17 09:00	07/16/17 11:57	1
Methylene Chloride	ND		0.0057	0.0027	mg/Kg	☼	07/16/17 09:00	07/16/17 11:57	1
Methyl tert-butyl ether	ND		0.0057	0.0042	mg/Kg	☼	07/16/17 09:00	07/16/17 11:57	1
n-Butylbenzene	ND		0.0057	0.0043	mg/Kg	☼	07/16/17 09:00	07/16/17 11:57	1
N-Propylbenzene	ND		0.0057	0.0024	mg/Kg	☼	07/16/17 09:00	07/16/17 11:57	1
sec-Butylbenzene	ND		0.0057	0.0028	mg/Kg	☼	07/16/17 09:00	07/16/17 11:57	1
tert-Butylbenzene	ND		0.0057	0.0021	mg/Kg	☼	07/16/17 09:00	07/16/17 11:57	1
Tetrachloroethene	ND		0.0057	0.0023	mg/Kg	☼	07/16/17 09:00	07/16/17 11:57	1
Toluene	ND		0.0057	0.0019	mg/Kg	☼	07/16/17 09:00	07/16/17 11:57	1
trans-1,2-Dichloroethene	ND		0.0057	0.0029	mg/Kg	☼	07/16/17 09:00	07/16/17 11:57	1
1,1,1-Trichloroethane	ND		0.0057	0.0028	mg/Kg	☼	07/16/17 09:00	07/16/17 11:57	1
Trichloroethene	ND		0.0057	0.0017	mg/Kg	☼	07/16/17 09:00	07/16/17 11:57	1
1,2,4-Trimethylbenzene	ND		0.0057	0.0015	mg/Kg	☼	07/16/17 09:00	07/16/17 11:57	1
1,3,5-Trimethylbenzene	ND		0.0057	0.0020	mg/Kg	☼	07/16/17 09:00	07/16/17 11:57	1
Vinyl chloride	ND		0.0057	0.0042	mg/Kg	☼	07/16/17 09:00	07/16/17 11:57	1
Xylenes, Total	ND		0.011	0.0049	mg/Kg	☼	07/16/17 09:00	07/16/17 11:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*63 - 120*	*07/16/17 09:00*	*07/16/17 11:57*	*1*
Dibromofluoromethane (Surr)	*92*		*68 - 121*	*07/16/17 09:00*	*07/16/17 11:57*	*1*
1,2-Dichloroethane-d4 (Surr)	*83*		*52 - 124*	*07/16/17 09:00*	*07/16/17 11:57*	*1*
Toluene-d8 (Surr)	*120*		*72 - 127*	*07/16/17 09:00*	*07/16/17 11:57*	*1*

Client Sample ID: W3, S1 A 71117 — Lab Sample ID: 180-68096-19

Date Collected: 07/11/17 13:15 — **Matrix: Solid**
Date Received: 07/12/17 09:10 — **Percent Solids: 91.3**

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	8.7		0.1	0.1	%			07/12/17 16:42	1
Percent Solids	91.3		0.1	0.1	%			07/12/17 16:42	1

Client Sample ID: W3, S1 B 71117 — Lab Sample ID: 180-68096-20

Date Collected: 07/11/17 13:20 — **Matrix: Solid**
Date Received: 07/12/17 09:10 — **Percent Solids: 90.6**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.030	0.0047	mg/Kg	☼	07/16/17 09:00	07/16/17 19:32	1
Benzene	ND		0.0074	0.0029	mg/Kg	☼	07/16/17 09:00	07/16/17 19:32	1
2-Butanone (MEK)	ND		0.0074	0.0043	mg/Kg	☼	07/16/17 09:00	07/16/17 19:32	1
Carbon tetrachloride	ND		0.0074	0.0049	mg/Kg	☼	07/16/17 09:00	07/16/17 19:32	1
Chlorobenzene	ND		0.0074	0.0023	mg/Kg	☼	07/16/17 09:00	07/16/17 19:32	1
Chloroform	ND		0.0074	0.0031	mg/Kg	☼	07/16/17 09:00	07/16/17 19:32	1
cis-1,2-Dichloroethene	ND		0.0074	0.0023	mg/Kg	☼	07/16/17 09:00	07/16/17 19:32	1
1,2-Dichlorobenzene	ND		0.0074	0.0060	mg/Kg	☼	07/16/17 09:00	07/16/17 19:32	1
1,3-Dichlorobenzene	ND		0.0074	0.0024	mg/Kg	☼	07/16/17 09:00	07/16/17 19:32	1
1,4-Dichlorobenzene	ND		0.0074	0.0015	mg/Kg	☼	07/16/17 09:00	07/16/17 19:32	1
1,1-Dichloroethane	ND		0.0074	0.0027	mg/Kg	☼	07/16/17 09:00	07/16/17 19:32	1
1,2-Dichloroethane	ND		0.0074	0.0022	mg/Kg	☼	07/16/17 09:00	07/16/17 19:32	1
1,1-Dichloroethene	ND		0.0074	0.0042	mg/Kg	☼	07/16/17 09:00	07/16/17 19:32	1
Ethylbenzene	ND		0.0074	0.0032	mg/Kg	☼	07/16/17 09:00	07/16/17 19:32	1
Methylene Chloride	ND		0.0074	0.0035	mg/Kg	☼	07/16/17 09:00	07/16/17 19:32	1
Methyl tert-butyl ether	ND		0.0074	0.0055	mg/Kg	☼	07/16/17 09:00	07/16/17 19:32	1
n-Butylbenzene	ND		0.0074	0.0056	mg/Kg	☼	07/16/17 09:00	07/16/17 19:32	1
N-Propylbenzene	ND		0.0074	0.0031	mg/Kg	☼	07/16/17 09:00	07/16/17 19:32	1
sec-Butylbenzene	ND		0.0074	0.0036	mg/Kg	☼	07/16/17 09:00	07/16/17 19:32	1
tert-Butylbenzene	ND		0.0074	0.0027	mg/Kg	☼	07/16/17 09:00	07/16/17 19:32	1
Tetrachloroethene	ND		0.0074	0.0030	mg/Kg	☼	07/16/17 09:00	07/16/17 19:32	1
Toluene	ND		0.0074	0.0025	mg/Kg	☼	07/16/17 09:00	07/16/17 19:32	1
trans-1,2-Dichloroethene	ND		0.0074	0.0038	mg/Kg	☼	07/16/17 09:00	07/16/17 19:32	1
1,1,1-Trichloroethane	ND		0.0074	0.0037	mg/Kg	☼	07/16/17 09:00	07/16/17 19:32	1
Trichloroethene	ND		0.0074	0.0022	mg/Kg	☼	07/16/17 09:00	07/16/17 19:32	1
1,2,4-Trimethylbenzene	ND		0.0074	0.0020	mg/Kg	☼	07/16/17 09:00	07/16/17 19:32	1
1,3,5-Trimethylbenzene	ND		0.0074	0.0026	mg/Kg	☼	07/16/17 09:00	07/16/17 19:32	1
Vinyl chloride	ND		0.0074	0.0055	mg/Kg	☼	07/16/17 09:00	07/16/17 19:32	1
Xylenes, Total	ND		0.015	0.0064	mg/Kg	☼	07/16/17 09:00	07/16/17 19:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*63 - 120*	*07/16/17 09:00*	*07/16/17 19:32*	*1*
Dibromofluoromethane (Surr)	*97*		*68 - 121*	*07/16/17 09:00*	*07/16/17 19:32*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*52 - 124*	*07/16/17 09:00*	*07/16/17 19:32*	*1*
Toluene-d8 (Surr)	*104*		*72 - 127*	*07/16/17 09:00*	*07/16/17 19:32*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.4		0.1	0.1	%			07/12/17 16:42	1
Percent Solids	90.6		0.1	0.1	%			07/12/17 16:42	1

Client Sample ID: DUP-3 — Lab Sample ID: 180-68096-21

Date Collected: 07/11/17 00:00 — **Matrix: Solid**
Date Received: 07/12/17 09:10 — **Percent Solids: 91.9**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.020	0.0032	mg/Kg	☼	07/16/17 09:00	07/16/17 12:43	1
Benzene	ND		0.0051	0.0020	mg/Kg	☼	07/16/17 09:00	07/16/17 12:43	1
2-Butanone (MEK)	ND		0.0051	0.0030	mg/Kg	☼	07/16/17 09:00	07/16/17 12:43	1
Carbon tetrachloride	ND		0.0051	0.0034	mg/Kg	☼	07/16/17 09:00	07/16/17 12:43	1
Chlorobenzene	ND		0.0051	0.0016	mg/Kg	☼	07/16/17 09:00	07/16/17 12:43	1
Chloroform	ND		0.0051	0.0022	mg/Kg	☼	07/16/17 09:00	07/16/17 12:43	1
cis-1,2-Dichloroethene	ND		0.0051	0.0016	mg/Kg	☼	07/16/17 09:00	07/16/17 12:43	1
1,2-Dichlorobenzene	ND		0.0051	0.0041	mg/Kg	☼	07/16/17 09:00	07/16/17 12:43	1
1,3-Dichlorobenzene	ND		0.0051	0.0016	mg/Kg	☼	07/16/17 09:00	07/16/17 12:43	1
1,4-Dichlorobenzene	ND		0.0051	0.0010	mg/Kg	☼	07/16/17 09:00	07/16/17 12:43	1
1,1-Dichloroethane	ND		0.0051	0.0019	mg/Kg	☼	07/16/17 09:00	07/16/17 12:43	1
1,2-Dichloroethane	ND		0.0051	0.0015	mg/Kg	☼	07/16/17 09:00	07/16/17 12:43	1
1,1-Dichloroethene	ND		0.0051	0.0029	mg/Kg	☼	07/16/17 09:00	07/16/17 12:43	1
Ethylbenzene	ND		0.0051	0.0022	mg/Kg	☼	07/16/17 09:00	07/16/17 12:43	1
Methylene Chloride	ND		0.0051	0.0024	mg/Kg	☼	07/16/17 09:00	07/16/17 12:43	1
Methyl tert-butyl ether	ND		0.0051	0.0038	mg/Kg	☼	07/16/17 09:00	07/16/17 12:43	1
n-Butylbenzene	ND		0.0051	0.0039	mg/Kg	☼	07/16/17 09:00	07/16/17 12:43	1
N-Propylbenzene	ND		0.0051	0.0022	mg/Kg	☼	07/16/17 09:00	07/16/17 12:43	1
sec-Butylbenzene	ND		0.0051	0.0025	mg/Kg	☼	07/16/17 09:00	07/16/17 12:43	1
tert-Butylbenzene	ND		0.0051	0.0019	mg/Kg	☼	07/16/17 09:00	07/16/17 12:43	1
Tetrachloroethene	ND		0.0051	0.0020	mg/Kg	☼	07/16/17 09:00	07/16/17 12:43	1
Toluene	ND		0.0051	0.0017	mg/Kg	☼	07/16/17 09:00	07/16/17 12:43	1
trans-1,2-Dichloroethene	ND		0.0051	0.0026	mg/Kg	☼	07/16/17 09:00	07/16/17 12:43	1
1,1,1-Trichloroethane	ND		0.0051	0.0026	mg/Kg	☼	07/16/17 09:00	07/16/17 12:43	1
Trichloroethene	ND		0.0051	0.0015	mg/Kg	☼	07/16/17 09:00	07/16/17 12:43	1
1,2,4-Trimethylbenzene	ND		0.0051	0.0014	mg/Kg	☼	07/16/17 09:00	07/16/17 12:43	1
1,3,5-Trimethylbenzene	ND		0.0051	0.0018	mg/Kg	☼	07/16/17 09:00	07/16/17 12:43	1
Vinyl chloride	ND		0.0051	0.0038	mg/Kg	☼	07/16/17 09:00	07/16/17 12:43	1
Xylenes, Total	ND		0.010	0.0044	mg/Kg	☼	07/16/17 09:00	07/16/17 12:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*63 - 120*	*07/16/17 09:00*	*07/16/17 12:43*	*1*
Dibromofluoromethane (Surr)	*90*		*68 - 121*	*07/16/17 09:00*	*07/16/17 12:43*	*1*
1,2-Dichloroethane-d4 (Surr)	*82*		*52 - 124*	*07/16/17 09:00*	*07/16/17 12:43*	*1*
Toluene-d8 (Surr)	*118*		*72 - 127*	*07/16/17 09:00*	*07/16/17 12:43*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**8.1**		0.1	0.1	%			07/12/17 16:42	1
Percent Solids	**91.9**		0.1	0.1	%			07/12/17 16:42	1

Client Sample ID: DUP-4 — Lab Sample ID: 180-68096-22

Date Collected: 07/11/17 00:00 — **Matrix: Solid**
Date Received: 07/12/17 09:10 — **Percent Solids: 91.2**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.014**	**J**	0.036	0.012	mg/Kg	☼	07/13/17 03:37	07/13/17 22:15	5
Acenaphthylene	**0.22**		0.036	0.012	mg/Kg	☼	07/13/17 03:37	07/13/17 22:15	5
Anthracene	**0.22**		0.036	0.013	mg/Kg	☼	07/13/17 03:37	07/13/17 22:15	5

Client Sample ID: DUP-4
Date Collected: 07/11/17 00:00
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-22
Matrix: Solid
Percent Solids: 91.2

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	**0.84**		0.036	0.014	mg/Kg	☼	07/13/17 03:37	07/13/17 22:15	5
Benzo[a]pyrene	**0.84**		0.036	0.015	mg/Kg	☼	07/13/17 03:37	07/13/17 22:15	5
Benzo[b]fluoranthene	**0.96**		0.036	0.016	mg/Kg	☼	07/13/17 03:37	07/13/17 22:15	5
Benzo[g,h,i]perylene	**1.0**		0.036	0.016	mg/Kg	☼	07/13/17 03:37	07/13/17 22:15	5
Benzo[k]fluoranthene	**0.40**		0.036	0.013	mg/Kg	☼	07/13/17 03:37	07/13/17 22:15	5
Chrysene	**0.86**		0.036	0.014	mg/Kg	☼	07/13/17 03:37	07/13/17 22:15	5
Dibenz(a,h)anthracene	**0.22**		0.036	0.015	mg/Kg	☼	07/13/17 03:37	07/13/17 22:15	5
Dibenzofuran	**0.061**	**J**	0.18	0.015	mg/Kg	☼	07/13/17 03:37	07/13/17 22:15	5
2,4-Dinitrotoluene	ND		0.18	0.024	mg/Kg	☼	07/13/17 03:37	07/13/17 22:15	5
1,4-Dioxane	ND		0.36	0.027	mg/Kg	☼	07/13/17 03:37	07/13/17 22:15	5
Fluoranthene	**1.3**		0.036	0.014	mg/Kg	☼	07/13/17 03:37	07/13/17 22:15	5
Fluorene	**0.038**		0.036	0.013	mg/Kg	☼	07/13/17 03:37	07/13/17 22:15	5
Hexachlorobenzene	ND		0.036	0.015	mg/Kg	☼	07/13/17 03:37	07/13/17 22:15	5
Hexachlorobutadiene	ND		0.036	0.011	mg/Kg	☼	07/13/17 03:37	07/13/17 22:15	5
Hexachloroethane	ND		0.18	0.013	mg/Kg	☼	07/13/17 03:37	07/13/17 22:15	5
Indeno[1,2,3-cd]pyrene	**0.89**		0.036	0.014	mg/Kg	☼	07/13/17 03:37	07/13/17 22:15	5
2-Methylphenol	ND		0.18	0.016	mg/Kg	☼	07/13/17 03:37	07/13/17 22:15	5
Methylphenol, 3 & 4	ND		0.18	0.016	mg/Kg	☼	07/13/17 03:37	07/13/17 22:15	5
Naphthalene	**0.22**		0.036	0.013	mg/Kg	☼	07/13/17 03:37	07/13/17 22:15	5
Nitrobenzene	ND		0.36	0.014	mg/Kg	☼	07/13/17 03:37	07/13/17 22:15	5
Pentachlorophenol	ND		0.93	0.34	mg/Kg	☼	07/13/17 03:37	07/13/17 22:15	5
Phenanthrene	**0.52**		0.036	0.015	mg/Kg	☼	07/13/17 03:37	07/13/17 22:15	5
Phenol	ND		0.18	0.025	mg/Kg	☼	07/13/17 03:37	07/13/17 22:15	5
Pyrene	**1.1**		0.036	0.016	mg/Kg	☼	07/13/17 03:37	07/13/17 22:15	5
Pyridine	ND		0.18	0.017	mg/Kg	☼	07/13/17 03:37	07/13/17 22:15	5
2,4,5-Trichlorophenol	ND		0.18	0.017	mg/Kg	☼	07/13/17 03:37	07/13/17 22:15	5
2,4,6-Trichlorophenol	ND		0.18	0.016	mg/Kg	☼	07/13/17 03:37	07/13/17 22:15	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*46*		*42 - 100*	*07/13/17 03:37*	*07/13/17 22:15*	*5*
2-Fluorophenol (Surr)	*43*		*21 - 107*	*07/13/17 03:37*	*07/13/17 22:15*	*5*
Nitrobenzene-d5 (Surr)	*51*		*35 - 109*	*07/13/17 03:37*	*07/13/17 22:15*	*5*
Phenol-d5 (Surr)	*42*		*29 - 105*	*07/13/17 03:37*	*07/13/17 22:15*	*5*
Terphenyl-d14 (Surr)	*46*		*36 - 113*	*07/13/17 03:37*	*07/13/17 22:15*	*5*
2,4,6-Tribromophenol (Surr)	*52*		*20 - 134*	*07/13/17 03:37*	*07/13/17 22:15*	*5*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.018	0.0096	mg/Kg	☼	07/13/17 03:34	07/14/17 17:08	1
PCB-1221	ND		0.018	0.0094	mg/Kg	☼	07/13/17 03:34	07/14/17 17:08	1
PCB-1232	ND		0.018	0.0072	mg/Kg	☼	07/13/17 03:34	07/14/17 17:08	1
PCB-1242	ND		0.018	0.014	mg/Kg	☼	07/13/17 03:34	07/14/17 17:08	1
PCB-1248	**0.56**		0.018	0.0087	mg/Kg	☼	07/13/17 03:34	07/14/17 17:08	1
PCB-1254	**0.38**		0.018	0.0080	mg/Kg	☼	07/13/17 03:34	07/14/17 17:08	1
PCB-1260	**0.14**		0.018	0.012	mg/Kg	☼	07/13/17 03:34	07/14/17 17:08	1
PCB-1262	ND		0.018	0.013	mg/Kg	☼	07/13/17 03:34	07/14/17 17:08	1
PCB-1268	ND		0.018	0.0055	mg/Kg	☼	07/13/17 03:34	07/14/17 17:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*64*		*23 - 150*	*07/13/17 03:34*	*07/14/17 17:08*	*1*

Client Sample ID: DUP-4 — Lab Sample ID: 180-68096-22

Date Collected: 07/11/17 00:00 — **Matrix: Solid**
Date Received: 07/12/17 09:10 — **Percent Solids: 91.2**

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	74		23 - 150	07/13/17 03:34	07/14/17 17:08	1
Tetrachloro-m-xylene (Surr)	70		27 - 138	07/13/17 03:34	07/14/17 17:08	1
Tetrachloro-m-xylene (Surr)	62		27 - 138	07/13/17 03:34	07/14/17 17:08	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	8.4		1.0	0.44	mg/Kg	☼	07/13/17 09:05	07/14/17 13:53	1
Barium	74		20	5.4	mg/Kg	☼	07/13/17 09:05	07/14/17 13:53	1
Beryllium	0.28	J	0.40	0.11	mg/Kg	☼	07/13/17 09:05	07/14/17 13:53	1
Cadmium	0.20	J	0.50	0.11	mg/Kg	☼	07/13/17 09:05	07/14/17 13:53	1
Chromium	11		0.50	0.13	mg/Kg	☼	07/13/17 09:05	07/14/17 13:53	1
Copper	41		2.5	0.77	mg/Kg	☼	07/13/17 09:05	07/14/17 13:53	1
Lead	47		1.0	0.33	mg/Kg	☼	07/13/17 09:05	07/14/17 13:53	1
Manganese	310		1.5	0.41	mg/Kg	☼	07/13/17 09:05	07/14/17 13:53	1
Nickel	21		4.0	0.91	mg/Kg	☼	07/13/17 09:05	07/14/17 13:53	1
Selenium	ND		1.0	0.40	mg/Kg	☼	07/13/17 09:05	07/14/17 13:53	1
Silver	ND		0.50	0.17	mg/Kg	☼	07/13/17 09:05	07/14/17 13:53	1
Zinc	90		2.0	1.0	mg/Kg	☼	07/13/17 09:05	07/14/17 13:53	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.71		0.034	0.0077	mg/Kg	☼	07/14/17 11:17	07/17/17 09:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	8.8		0.1	0.1	%			07/12/17 16:42	1
Percent Solids	91.2		0.1	0.1	%			07/12/17 16:42	1
Cyanide, Total	ND		0.53	0.16	mg/Kg	☼	07/13/17 12:02	07/13/17 16:14	1

Client Sample ID: W3, S1, C 71117 — Lab Sample ID: 180-68096-23

Date Collected: 07/11/17 13:25 — **Matrix: Solid**
Date Received: 07/12/17 09:10 — **Percent Solids: 91.3**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.10		0.072	0.024	mg/Kg	☼	07/13/17 03:37	07/13/17 22:42	10
Acenaphthylene	0.55		0.072	0.024	mg/Kg	☼	07/13/17 03:37	07/13/17 22:42	10
Anthracene	2.3		0.072	0.026	mg/Kg	☼	07/13/17 03:37	07/13/17 22:42	10
Benzo[a]anthracene	2.2		0.072	0.028	mg/Kg	☼	07/13/17 03:37	07/13/17 22:42	10
Benzo[a]pyrene	2.0		0.072	0.030	mg/Kg	☼	07/13/17 03:37	07/13/17 22:42	10
Benzo[b]fluoranthene	2.2		0.072	0.031	mg/Kg	☼	07/13/17 03:37	07/13/17 22:42	10
Benzo[g,h,i]perylene	2.0		0.072	0.031	mg/Kg	☼	07/13/17 03:37	07/13/17 22:42	10
Benzo[k]fluoranthene	0.86		0.072	0.025	mg/Kg	☼	07/13/17 03:37	07/13/17 22:42	10
Chrysene	2.0		0.072	0.028	mg/Kg	☼	07/13/17 03:37	07/13/17 22:42	10
Dibenz(a,h)anthracene	0.38		0.072	0.030	mg/Kg	☼	07/13/17 03:37	07/13/17 22:42	10
Dibenzofuran	0.27	J	0.35	0.029	mg/Kg	☼	07/13/17 03:37	07/13/17 22:42	10
2,4-Dinitrotoluene	ND		0.35	0.047	mg/Kg	☼	07/13/17 03:37	07/13/17 22:42	10
1,4-Dioxane	ND		0.72	0.054	mg/Kg	☼	07/13/17 03:37	07/13/17 22:42	10
Fluoranthene	5.5		0.072	0.028	mg/Kg	☼	07/13/17 03:37	07/13/17 22:42	10
Fluorene	0.27		0.072	0.026	mg/Kg	☼	07/13/17 03:37	07/13/17 22:42	10

Client Sample ID: W3, S1, C 71117
Date Collected: 07/11/17 13:25
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-23
Matrix: Solid
Percent Solids: 91.3

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobenzene	ND		0.072	0.029	mg/Kg	☼	07/13/17 03:37	07/13/17 22:42	10
Hexachlorobutadiene	ND		0.072	0.023	mg/Kg	☼	07/13/17 03:37	07/13/17 22:42	10
Hexachloroethane	ND		0.35	0.026	mg/Kg	☼	07/13/17 03:37	07/13/17 22:42	10
Indeno[1,2,3-cd]pyrene	**1.7**		0.072	0.028	mg/Kg	☼	07/13/17 03:37	07/13/17 22:42	10
2-Methylphenol	ND		0.35	0.032	mg/Kg	☼	07/13/17 03:37	07/13/17 22:42	10
Methylphenol, 3 & 4	ND		0.35	0.032	mg/Kg	☼	07/13/17 03:37	07/13/17 22:42	10
Naphthalene	**0.38**		0.072	0.026	mg/Kg	☼	07/13/17 03:37	07/13/17 22:42	10
Nitrobenzene	ND		0.72	0.027	mg/Kg	☼	07/13/17 03:37	07/13/17 22:42	10
Pentachlorophenol	ND		1.8	0.68	mg/Kg	☼	07/13/17 03:37	07/13/17 22:42	10
Phenanthrene	**5.0**		0.072	0.030	mg/Kg	☼	07/13/17 03:37	07/13/17 22:42	10
Phenol	ND		0.35	0.048	mg/Kg	☼	07/13/17 03:37	07/13/17 22:42	10
Pyrene	**3.7**		0.072	0.032	mg/Kg	☼	07/13/17 03:37	07/13/17 22:42	10
Pyridine	ND		0.35	0.034	mg/Kg	☼	07/13/17 03:37	07/13/17 22:42	10
2,4,5-Trichlorophenol	ND		0.35	0.034	mg/Kg	☼	07/13/17 03:37	07/13/17 22:42	10
2,4,6-Trichlorophenol	ND		0.35	0.031	mg/Kg	☼	07/13/17 03:37	07/13/17 22:42	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*60*		*42 - 100*	*07/13/17 03:37*	*07/13/17 22:42*	*10*
2-Fluorophenol (Surr)	*54*		*21 - 107*	*07/13/17 03:37*	*07/13/17 22:42*	*10*
Nitrobenzene-d5 (Surr)	*65*		*35 - 109*	*07/13/17 03:37*	*07/13/17 22:42*	*10*
Phenol-d5 (Surr)	*51*		*29 - 105*	*07/13/17 03:37*	*07/13/17 22:42*	*10*
Terphenyl-d14 (Surr)	*51*		*36 - 113*	*07/13/17 03:37*	*07/13/17 22:42*	*10*
2,4,6-Tribromophenol (Surr)	*53*		*20 - 134*	*07/13/17 03:37*	*07/13/17 22:42*	*10*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.018	0.0095	mg/Kg	☼	07/13/17 03:34	07/14/17 17:28	1
PCB-1221	ND		0.018	0.0093	mg/Kg	☼	07/13/17 03:34	07/14/17 17:28	1
PCB-1232	ND		0.018	0.0071	mg/Kg	☼	07/13/17 03:34	07/14/17 17:28	1
PCB-1242	ND		0.018	0.014	mg/Kg	☼	07/13/17 03:34	07/14/17 17:28	1
PCB-1248	**0.67**		0.018	0.0085	mg/Kg	☼	07/13/17 03:34	07/14/17 17:28	1
PCB-1254	**0.47**		0.018	0.0078	mg/Kg	☼	07/13/17 03:34	07/14/17 17:28	1
PCB-1260	**0.17**		0.018	0.012	mg/Kg	☼	07/13/17 03:34	07/14/17 17:28	1
PCB-1262	ND		0.018	0.013	mg/Kg	☼	07/13/17 03:34	07/14/17 17:28	1
PCB-1268	ND		0.018	0.0055	mg/Kg	☼	07/13/17 03:34	07/14/17 17:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*80*		*23 - 150*	*07/13/17 03:34*	*07/14/17 17:28*	*1*
DCB Decachlorobiphenyl (Surr)	*91*		*23 - 150*	*07/13/17 03:34*	*07/14/17 17:28*	*1*
Tetrachloro-m-xylene (Surr)	*84*		*27 - 138*	*07/13/17 03:34*	*07/14/17 17:28*	*1*
Tetrachloro-m-xylene (Surr)	*75*		*27 - 138*	*07/13/17 03:34*	*07/14/17 17:28*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**6.9**		1.1	0.50	mg/Kg	☼	07/13/17 09:05	07/14/17 13:58	1
Barium	**79**		23	6.1	mg/Kg	☼	07/13/17 09:05	07/14/17 13:58	1
Beryllium	**0.30**	**J**	0.46	0.12	mg/Kg	☼	07/13/17 09:05	07/14/17 13:58	1
Cadmium	**0.22**	**J**	0.57	0.13	mg/Kg	☼	07/13/17 09:05	07/14/17 13:58	1
Chromium	**9.6**		0.57	0.15	mg/Kg	☼	07/13/17 09:05	07/14/17 13:58	1
Copper	**58**		2.9	0.88	mg/Kg	☼	07/13/17 09:05	07/14/17 13:58	1

Client Sample ID: W3, S1, C 71117 — Lab Sample ID: 180-68096-23

Date Collected: 07/11/17 13:25 — **Matrix: Solid**
Date Received: 07/12/17 09:10 — **Percent Solids: 91.3**

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	51		1.1	0.37	mg/Kg	☼	07/13/17 09:05	07/14/17 13:58	1
Manganese	400		1.7	0.46	mg/Kg	☼	07/13/17 09:05	07/14/17 13:58	1
Nickel	16		4.6	1.0	mg/Kg	☼	07/13/17 09:05	07/14/17 13:58	1
Selenium	0.54	J	1.1	0.45	mg/Kg	☼	07/13/17 09:05	07/14/17 13:58	1
Silver	ND		0.57	0.19	mg/Kg	☼	07/13/17 09:05	07/14/17 13:58	1
Zinc	83		2.3	1.2	mg/Kg	☼	07/13/17 09:05	07/14/17 13:58	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.65		0.029	0.0066	mg/Kg	☼	07/14/17 11:17	07/17/17 09:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	8.7		0.1	0.1	%			07/12/17 16:42	1
Percent Solids	91.3		0.1	0.1	%			07/12/17 16:42	1
Cyanide, Total	ND		0.53	0.16	mg/Kg	☼	07/13/17 12:02	07/13/17 16:15	1

Client Sample ID: W3, S2, A 71117 — Lab Sample ID: 180-68096-24

Date Collected: 07/11/17 13:45 — **Matrix: Solid**
Date Received: 07/12/17 09:10 — **Percent Solids: 91.6**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.021	0.0033	mg/Kg	☼	07/16/17 09:00	07/16/17 13:05	1
Benzene	ND		0.0052	0.0020	mg/Kg	☼	07/16/17 09:00	07/16/17 13:05	1
2-Butanone (MEK)	ND		0.0052	0.0030	mg/Kg	☼	07/16/17 09:00	07/16/17 13:05	1
Carbon tetrachloride	ND		0.0052	0.0034	mg/Kg	☼	07/16/17 09:00	07/16/17 13:05	1
Chlorobenzene	ND		0.0052	0.0016	mg/Kg	☼	07/16/17 09:00	07/16/17 13:05	1
Chloroform	ND		0.0052	0.0022	mg/Kg	☼	07/16/17 09:00	07/16/17 13:05	1
cis-1,2-Dichloroethene	ND		0.0052	0.0016	mg/Kg	☼	07/16/17 09:00	07/16/17 13:05	1
1,2-Dichlorobenzene	ND		0.0052	0.0042	mg/Kg	☼	07/16/17 09:00	07/16/17 13:05	1
1,3-Dichlorobenzene	ND		0.0052	0.0017	mg/Kg	☼	07/16/17 09:00	07/16/17 13:05	1
1,4-Dichlorobenzene	ND		0.0052	0.0011	mg/Kg	☼	07/16/17 09:00	07/16/17 13:05	1
1,1-Dichloroethane	ND		0.0052	0.0019	mg/Kg	☼	07/16/17 09:00	07/16/17 13:05	1
1,2-Dichloroethane	ND		0.0052	0.0015	mg/Kg	☼	07/16/17 09:00	07/16/17 13:05	1
1,1-Dichloroethene	ND		0.0052	0.0030	mg/Kg	☼	07/16/17 09:00	07/16/17 13:05	1
Ethylbenzene	ND		0.0052	0.0022	mg/Kg	☼	07/16/17 09:00	07/16/17 13:05	1
Methylene Chloride	ND		0.0052	0.0024	mg/Kg	☼	07/16/17 09:00	07/16/17 13:05	1
Methyl tert-butyl ether	ND		0.0052	0.0038	mg/Kg	☼	07/16/17 09:00	07/16/17 13:05	1
n-Butylbenzene	ND		0.0052	0.0039	mg/Kg	☼	07/16/17 09:00	07/16/17 13:05	1
N-Propylbenzene	ND		0.0052	0.0022	mg/Kg	☼	07/16/17 09:00	07/16/17 13:05	1
sec-Butylbenzene	ND		0.0052	0.0025	mg/Kg	☼	07/16/17 09:00	07/16/17 13:05	1
tert-Butylbenzene	ND		0.0052	0.0019	mg/Kg	☼	07/16/17 09:00	07/16/17 13:05	1
Tetrachloroethene	ND		0.0052	0.0021	mg/Kg	☼	07/16/17 09:00	07/16/17 13:05	1
Toluene	ND		0.0052	0.0017	mg/Kg	☼	07/16/17 09:00	07/16/17 13:05	1
trans-1,2-Dichloroethene	ND		0.0052	0.0026	mg/Kg	☼	07/16/17 09:00	07/16/17 13:05	1
1,1,1-Trichloroethane	ND		0.0052	0.0026	mg/Kg	☼	07/16/17 09:00	07/16/17 13:05	1
Trichloroethene	ND		0.0052	0.0016	mg/Kg	☼	07/16/17 09:00	07/16/17 13:05	1
1,2,4-Trimethylbenzene	ND		0.0052	0.0014	mg/Kg	☼	07/16/17 09:00	07/16/17 13:05	1
1,3,5-Trimethylbenzene	ND		0.0052	0.0018	mg/Kg	☼	07/16/17 09:00	07/16/17 13:05	1

Client Sample ID: W3, S2, A 71117 — Lab Sample ID: 180-68096-24

Date Collected: 07/11/17 13:45 — **Matrix: Solid**
Date Received: 07/12/17 09:10 — **Percent Solids: 91.6**

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		0.0052	0.0038	mg/Kg	☼	07/16/17 09:00	07/16/17 13:05	1
Xylenes, Total	ND		0.010	0.0045	mg/Kg	☼	07/16/17 09:00	07/16/17 13:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*63 - 120*	*07/16/17 09:00*	*07/16/17 13:05*	*1*
Dibromofluoromethane (Surr)	*87*		*68 - 121*	*07/16/17 09:00*	*07/16/17 13:05*	*1*
1,2-Dichloroethane-d4 (Surr)	*78*		*52 - 124*	*07/16/17 09:00*	*07/16/17 13:05*	*1*
Toluene-d8 (Surr)	*113*		*72 - 127*	*07/16/17 09:00*	*07/16/17 13:05*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**8.4**		0.1	0.1	%			07/12/17 16:42	1
Percent Solids	**91.6**		0.1	0.1	%			07/12/17 16:42	1

Client Sample ID: W3, S2, B 71117 — Lab Sample ID: 180-68096-25

Date Collected: 07/11/17 13:50 — **Matrix: Solid**
Date Received: 07/12/17 09:10 — **Percent Solids: 92.3**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.020	0.0031	mg/Kg	☼	07/16/17 09:00	07/16/17 13:28	1
Benzene	ND		0.0050	0.0020	mg/Kg	☼	07/16/17 09:00	07/16/17 13:28	1
2-Butanone (MEK)	ND		0.0050	0.0029	mg/Kg	☼	07/16/17 09:00	07/16/17 13:28	1
Carbon tetrachloride	ND		0.0050	0.0033	mg/Kg	☼	07/16/17 09:00	07/16/17 13:28	1
Chlorobenzene	ND		0.0050	0.0016	mg/Kg	☼	07/16/17 09:00	07/16/17 13:28	1
Chloroform	ND		0.0050	0.0021	mg/Kg	☼	07/16/17 09:00	07/16/17 13:28	1
cis-1,2-Dichloroethene	ND		0.0050	0.0016	mg/Kg	☼	07/16/17 09:00	07/16/17 13:28	1
1,2-Dichlorobenzene	ND		0.0050	0.0040	mg/Kg	☼	07/16/17 09:00	07/16/17 13:28	1
1,3-Dichlorobenzene	ND		0.0050	0.0016	mg/Kg	☼	07/16/17 09:00	07/16/17 13:28	1
1,4-Dichlorobenzene	ND		0.0050	0.0010	mg/Kg	☼	07/16/17 09:00	07/16/17 13:28	1
1,1-Dichloroethane	ND		0.0050	0.0018	mg/Kg	☼	07/16/17 09:00	07/16/17 13:28	1
1,2-Dichloroethane	ND		0.0050	0.0014	mg/Kg	☼	07/16/17 09:00	07/16/17 13:28	1
1,1-Dichloroethene	ND		0.0050	0.0028	mg/Kg	☼	07/16/17 09:00	07/16/17 13:28	1
Ethylbenzene	ND		0.0050	0.0021	mg/Kg	☼	07/16/17 09:00	07/16/17 13:28	1
Methylene Chloride	ND		0.0050	0.0024	mg/Kg	☼	07/16/17 09:00	07/16/17 13:28	1
Methyl tert-butyl ether	ND		0.0050	0.0037	mg/Kg	☼	07/16/17 09:00	07/16/17 13:28	1
n-Butylbenzene	ND		0.0050	0.0038	mg/Kg	☼	07/16/17 09:00	07/16/17 13:28	1
N-Propylbenzene	ND		0.0050	0.0021	mg/Kg	☼	07/16/17 09:00	07/16/17 13:28	1
sec-Butylbenzene	ND		0.0050	0.0024	mg/Kg	☼	07/16/17 09:00	07/16/17 13:28	1
tert-Butylbenzene	ND		0.0050	0.0018	mg/Kg	☼	07/16/17 09:00	07/16/17 13:28	1
Tetrachloroethene	ND		0.0050	0.0020	mg/Kg	☼	07/16/17 09:00	07/16/17 13:28	1
Toluene	ND		0.0050	0.0017	mg/Kg	☼	07/16/17 09:00	07/16/17 13:28	1
trans-1,2-Dichloroethene	ND		0.0050	0.0025	mg/Kg	☼	07/16/17 09:00	07/16/17 13:28	1
1,1,1-Trichloroethane	ND		0.0050	0.0025	mg/Kg	☼	07/16/17 09:00	07/16/17 13:28	1
Trichloroethene	ND		0.0050	0.0015	mg/Kg	☼	07/16/17 09:00	07/16/17 13:28	1
1,2,4-Trimethylbenzene	ND		0.0050	0.0013	mg/Kg	☼	07/16/17 09:00	07/16/17 13:28	1
1,3,5-Trimethylbenzene	ND		0.0050	0.0017	mg/Kg	☼	07/16/17 09:00	07/16/17 13:28	1
Vinyl chloride	ND		0.0050	0.0037	mg/Kg	☼	07/16/17 09:00	07/16/17 13:28	1
Xylenes, Total	ND		0.010	0.0043	mg/Kg	☼	07/16/17 09:00	07/16/17 13:28	1

Client Sample ID: W3, S2, B 71117

Lab Sample ID: 180-68096-25

Date Collected: 07/11/17 13:50
Matrix: Solid
Date Received: 07/12/17 09:10
Percent Solids: 92.3

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*63 - 120*	*07/16/17 09:00*	*07/16/17 13:28*	*1*
Dibromofluoromethane (Surr)	*93*		*68 - 121*	*07/16/17 09:00*	*07/16/17 13:28*	*1*
1,2-Dichloroethane-d4 (Surr)	*85*		*52 - 124*	*07/16/17 09:00*	*07/16/17 13:28*	*1*
Toluene-d8 (Surr)	*126*		*72 - 127*	*07/16/17 09:00*	*07/16/17 13:28*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**7.7**		0.1	0.1	%			07/12/17 16:42	1
Percent Solids	**92.3**		0.1	0.1	%			07/12/17 16:42	1

Client Sample ID: W3, S2, C 71117

Lab Sample ID: 180-68096-26

Date Collected: 07/11/17 13:55
Matrix: Solid
Date Received: 07/12/17 09:10
Percent Solids: 91.5

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.072	0.024	mg/Kg	☼	07/13/17 03:37	07/17/17 11:48	10
Acenaphthylene	**0.10**		0.072	0.024	mg/Kg	☼	07/13/17 03:37	07/17/17 11:48	10
Anthracene	**0.12**		0.072	0.027	mg/Kg	☼	07/13/17 03:37	07/17/17 11:48	10
Benzo[a]anthracene	**0.53**		0.072	0.029	mg/Kg	☼	07/13/17 03:37	07/17/17 11:48	10
Benzo[a]pyrene	**0.56**		0.072	0.030	mg/Kg	☼	07/13/17 03:37	07/17/17 11:48	10
Benzo[b]fluoranthene	**0.77**		0.072	0.031	mg/Kg	☼	07/13/17 03:37	07/17/17 11:48	10
Benzo[g,h,i]perylene	**0.54**		0.072	0.031	mg/Kg	☼	07/13/17 03:37	07/17/17 11:48	10
Benzo[k]fluoranthene	**0.21**		0.072	0.025	mg/Kg	☼	07/13/17 03:37	07/17/17 11:48	10
Chrysene	**0.51**		0.072	0.028	mg/Kg	☼	07/13/17 03:37	07/17/17 11:48	10
Dibenz(a,h)anthracene	**0.12**		0.072	0.030	mg/Kg	☼	07/13/17 03:37	07/17/17 11:48	10
Dibenzofuran	**0.064**	**J**	0.36	0.029	mg/Kg	☼	07/13/17 03:37	07/17/17 11:48	10
2,4-Dinitrotoluene	ND		0.36	0.048	mg/Kg	☼	07/13/17 03:37	07/17/17 11:48	10
1,4-Dioxane	ND		0.72	0.054	mg/Kg	☼	07/13/17 03:37	07/17/17 11:48	10
Fluoranthene	**0.73**		0.072	0.028	mg/Kg	☼	07/13/17 03:37	07/17/17 11:48	10
Fluorene	**0.033**	**J**	0.072	0.026	mg/Kg	☼	07/13/17 03:37	07/17/17 11:48	10
Hexachlorobenzene	ND		0.072	0.029	mg/Kg	☼	07/13/17 03:37	07/17/17 11:48	10
Hexachlorobutadiene	ND		0.072	0.023	mg/Kg	☼	07/13/17 03:37	07/17/17 11:48	10
Hexachloroethane	ND		0.36	0.026	mg/Kg	☼	07/13/17 03:37	07/17/17 11:48	10
Indeno[1,2,3-cd]pyrene	**0.48**		0.072	0.028	mg/Kg	☼	07/13/17 03:37	07/17/17 11:48	10
2-Methylphenol	ND		0.36	0.032	mg/Kg	☼	07/13/17 03:37	07/17/17 11:48	10
Methylphenol, 3 & 4	ND		0.36	0.032	mg/Kg	☼	07/13/17 03:37	07/17/17 11:48	10
Naphthalene	**0.16**		0.072	0.026	mg/Kg	☼	07/13/17 03:37	07/17/17 11:48	10
Nitrobenzene	ND		0.72	0.027	mg/Kg	☼	07/13/17 03:37	07/17/17 11:48	10
Pentachlorophenol	ND		1.8	0.68	mg/Kg	☼	07/13/17 03:37	07/17/17 11:48	10
Phenanthrene	**0.39**		0.072	0.030	mg/Kg	☼	07/13/17 03:37	07/17/17 11:48	10
Phenol	ND		0.36	0.049	mg/Kg	☼	07/13/17 03:37	07/17/17 11:48	10
Pyrene	**0.88**		0.072	0.032	mg/Kg	☼	07/13/17 03:37	07/17/17 11:48	10
Pyridine	ND		0.36	0.034	mg/Kg	☼	07/13/17 03:37	07/17/17 11:48	10
2,4,5-Trichlorophenol	ND		0.36	0.034	mg/Kg	☼	07/13/17 03:37	07/17/17 11:48	10
2,4,6-Trichlorophenol	ND		0.36	0.032	mg/Kg	☼	07/13/17 03:37	07/17/17 11:48	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*53*		*42 - 100*	*07/13/17 03:37*	*07/17/17 11:48*	*10*
2-Fluorophenol (Surr)	*51*		*21 - 107*	*07/13/17 03:37*	*07/17/17 11:48*	*10*
Nitrobenzene-d5 (Surr)	*61*		*35 - 109*	*07/13/17 03:37*	*07/17/17 11:48*	*10*

Client Sample ID: W3, S2, C 71117 **Lab Sample ID: 180-68096-26**
Date Collected: 07/11/17 13:55 **Matrix: Solid**
Date Received: 07/12/17 09:10 **Percent Solids: 91.5**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Phenol-d5 (Surr)	*50*		*29 - 105*	*07/13/17 03:37*	*07/17/17 11:48*	*10*
Terphenyl-d14 (Surr)	*63*		*36 - 113*	*07/13/17 03:37*	*07/17/17 11:48*	*10*
2,4,6-Tribromophenol (Surr)	*48*		*20 - 134*	*07/13/17 03:37*	*07/17/17 11:48*	*10*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.018	0.0095	mg/Kg	☼	07/13/17 03:34	07/14/17 17:49	1
PCB-1221	ND		0.018	0.0093	mg/Kg	☼	07/13/17 03:34	07/14/17 17:49	1
PCB-1232	ND		0.018	0.0071	mg/Kg	☼	07/13/17 03:34	07/14/17 17:49	1
PCB-1242	ND		0.018	0.014	mg/Kg	☼	07/13/17 03:34	07/14/17 17:49	1
PCB-1248	**0.65**		0.018	0.0086	mg/Kg	☼	07/13/17 03:34	07/14/17 17:49	1
PCB-1254	**0.44**		0.018	0.0079	mg/Kg	☼	07/13/17 03:34	07/14/17 17:49	1
PCB-1260	**0.15**		0.018	0.012	mg/Kg	☼	07/13/17 03:34	07/14/17 17:49	1
PCB-1262	ND		0.018	0.013	mg/Kg	☼	07/13/17 03:34	07/14/17 17:49	1
PCB-1268	ND		0.018	0.0055	mg/Kg	☼	07/13/17 03:34	07/14/17 17:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	*69*		*23 - 150*	*07/13/17 03:34*	*07/14/17 17:49*	*1*
DCB Decachlorobiphenyl (Surr)	*78*		*23 - 150*	*07/13/17 03:34*	*07/14/17 17:49*	*1*
Tetrachloro-m-xylene (Surr)	*72*		*27 - 138*	*07/13/17 03:34*	*07/14/17 17:49*	*1*
Tetrachloro-m-xylene (Surr)	*65*		*27 - 138*	*07/13/17 03:34*	*07/14/17 17:49*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**6.8**		1.1	0.48	mg/Kg	☼	07/13/17 09:05	07/14/17 14:03	1
Barium	**69**		22	5.8	mg/Kg	☼	07/13/17 09:05	07/14/17 14:03	1
Beryllium	**0.27**	**J**	0.43	0.11	mg/Kg	☼	07/13/17 09:05	07/14/17 14:03	1
Cadmium	**0.13**	**J**	0.54	0.12	mg/Kg	☼	07/13/17 09:05	07/14/17 14:03	1
Chromium	**8.1**		0.54	0.14	mg/Kg	☼	07/13/17 09:05	07/14/17 14:03	1
Copper	**35**		2.7	0.83	mg/Kg	☼	07/13/17 09:05	07/14/17 14:03	1
Lead	**46**		1.1	0.36	mg/Kg	☼	07/13/17 09:05	07/14/17 14:03	1
Manganese	**320**		1.6	0.44	mg/Kg	☼	07/13/17 09:05	07/14/17 14:03	1
Nickel	**14**		4.3	0.97	mg/Kg	☼	07/13/17 09:05	07/14/17 14:03	1
Selenium	ND		1.1	0.43	mg/Kg	☼	07/13/17 09:05	07/14/17 14:03	1
Silver	ND		0.54	0.18	mg/Kg	☼	07/13/17 09:05	07/14/17 14:03	1
Zinc	**69**		2.2	1.1	mg/Kg	☼	07/13/17 09:05	07/14/17 14:03	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.61**		0.030	0.0067	mg/Kg	☼	07/14/17 11:17	07/17/17 09:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**8.5**		0.1	0.1	%			07/12/17 16:42	1
Percent Solids	**91.5**		0.1	0.1	%			07/12/17 16:42	1
Cyanide, Total	**0.18**	**J**	0.53	0.16	mg/Kg	☼	07/13/17 12:02	07/13/17 16:17	1

Client Sample ID: W3, S3, A 71117

Lab Sample ID: 180-68096-27
Date Collected: 07/11/17 14:15
Matrix: Solid
Date Received: 07/12/17 09:10
Percent Solids: 91.8

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.024	0.0038	mg/Kg	☼	07/16/17 09:00	07/16/17 13:50	1
Benzene	ND		0.0060	0.0024	mg/Kg	☼	07/16/17 09:00	07/16/17 13:50	1
2-Butanone (MEK)	ND		0.0060	0.0035	mg/Kg	☼	07/16/17 09:00	07/16/17 13:50	1
Carbon tetrachloride	ND		0.0060	0.0040	mg/Kg	☼	07/16/17 09:00	07/16/17 13:50	1
Chlorobenzene	ND		0.0060	0.0019	mg/Kg	☼	07/16/17 09:00	07/16/17 13:50	1
Chloroform	ND		0.0060	0.0025	mg/Kg	☼	07/16/17 09:00	07/16/17 13:50	1
cis-1,2-Dichloroethene	ND		0.0060	0.0019	mg/Kg	☼	07/16/17 09:00	07/16/17 13:50	1
1,2-Dichlorobenzene	ND		0.0060	0.0048	mg/Kg	☼	07/16/17 09:00	07/16/17 13:50	1
1,3-Dichlorobenzene	ND		0.0060	0.0019	mg/Kg	☼	07/16/17 09:00	07/16/17 13:50	1
1,4-Dichlorobenzene	ND		0.0060	0.0012	mg/Kg	☼	07/16/17 09:00	07/16/17 13:50	1
1,1-Dichloroethane	ND		0.0060	0.0022	mg/Kg	☼	07/16/17 09:00	07/16/17 13:50	1
1,2-Dichloroethane	ND		0.0060	0.0017	mg/Kg	☼	07/16/17 09:00	07/16/17 13:50	1
1,1-Dichloroethene	ND		0.0060	0.0034	mg/Kg	☼	07/16/17 09:00	07/16/17 13:50	1
Ethylbenzene	ND		0.0060	0.0026	mg/Kg	☼	07/16/17 09:00	07/16/17 13:50	1
Methylene Chloride	ND		0.0060	0.0028	mg/Kg	☼	07/16/17 09:00	07/16/17 13:50	1
Methyl tert-butyl ether	ND		0.0060	0.0044	mg/Kg	☼	07/16/17 09:00	07/16/17 13:50	1
n-Butylbenzene	ND		0.0060	0.0045	mg/Kg	☼	07/16/17 09:00	07/16/17 13:50	1
N-Propylbenzene	ND		0.0060	0.0025	mg/Kg	☼	07/16/17 09:00	07/16/17 13:50	1
sec-Butylbenzene	ND		0.0060	0.0029	mg/Kg	☼	07/16/17 09:00	07/16/17 13:50	1
tert-Butylbenzene	ND		0.0060	0.0022	mg/Kg	☼	07/16/17 09:00	07/16/17 13:50	1
Tetrachloroethene	ND		0.0060	0.0024	mg/Kg	☼	07/16/17 09:00	07/16/17 13:50	1
Toluene	ND		0.0060	0.0020	mg/Kg	☼	07/16/17 09:00	07/16/17 13:50	1
trans-1,2-Dichloroethene	ND		0.0060	0.0030	mg/Kg	☼	07/16/17 09:00	07/16/17 13:50	1
1,1,1-Trichloroethane	ND		0.0060	0.0030	mg/Kg	☼	07/16/17 09:00	07/16/17 13:50	1
Trichloroethene	ND		0.0060	0.0018	mg/Kg	☼	07/16/17 09:00	07/16/17 13:50	1
1,2,4-Trimethylbenzene	ND		0.0060	0.0016	mg/Kg	☼	07/16/17 09:00	07/16/17 13:50	1
1,3,5-Trimethylbenzene	ND		0.0060	0.0021	mg/Kg	☼	07/16/17 09:00	07/16/17 13:50	1
Vinyl chloride	ND		0.0060	0.0044	mg/Kg	☼	07/16/17 09:00	07/16/17 13:50	1
Xylenes, Total	ND		0.012	0.0052	mg/Kg	☼	07/16/17 09:00	07/16/17 13:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*63 - 120*	*07/16/17 09:00*	*07/16/17 13:50*	*1*
Dibromofluoromethane (Surr)	*88*		*68 - 121*	*07/16/17 09:00*	*07/16/17 13:50*	*1*
1,2-Dichloroethane-d4 (Surr)	*78*		*52 - 124*	*07/16/17 09:00*	*07/16/17 13:50*	*1*
Toluene-d8 (Surr)	*118*		*72 - 127*	*07/16/17 09:00*	*07/16/17 13:50*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**8.2**		0.1	0.1	%			07/12/17 16:42	1
Percent Solids	**91.8**		0.1	0.1	%			07/12/17 16:42	1

Client Sample ID: W3, S3, B 71117

Lab Sample ID: 180-68096-28
Date Collected: 07/11/17 14:20
Matrix: Solid
Date Received: 07/12/17 09:10
Percent Solids: 89.1

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.022	0.0035	mg/Kg	☼	07/16/17 09:00	07/16/17 14:13	1
Benzene	ND		0.0055	0.0022	mg/Kg	☼	07/16/17 09:00	07/16/17 14:13	1
2-Butanone (MEK)	ND		0.0055	0.0032	mg/Kg	☼	07/16/17 09:00	07/16/17 14:13	1

Client Sample ID: W3, S3, B 71117 — Lab Sample ID: 180-68096-28

Date Collected: 07/11/17 14:20 — **Matrix: Solid**
Date Received: 07/12/17 09:10 — **Percent Solids: 89.1**

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	ND		0.0055	0.0037	mg/Kg	☼	07/16/17 09:00	07/16/17 14:13	1
Chlorobenzene	ND		0.0055	0.0017	mg/Kg	☼	07/16/17 09:00	07/16/17 14:13	1
Chloroform	ND		0.0055	0.0023	mg/Kg	☼	07/16/17 09:00	07/16/17 14:13	1
cis-1,2-Dichloroethene	ND		0.0055	0.0017	mg/Kg	☼	07/16/17 09:00	07/16/17 14:13	1
1,2-Dichlorobenzene	ND		0.0055	0.0044	mg/Kg	☼	07/16/17 09:00	07/16/17 14:13	1
1,3-Dichlorobenzene	ND		0.0055	0.0018	mg/Kg	☼	07/16/17 09:00	07/16/17 14:13	1
1,4-Dichlorobenzene	ND		0.0055	0.0011	mg/Kg	☼	07/16/17 09:00	07/16/17 14:13	1
1,1-Dichloroethane	ND		0.0055	0.0020	mg/Kg	☼	07/16/17 09:00	07/16/17 14:13	1
1,2-Dichloroethane	ND		0.0055	0.0016	mg/Kg	☼	07/16/17 09:00	07/16/17 14:13	1
1,1-Dichloroethene	ND		0.0055	0.0031	mg/Kg	☼	07/16/17 09:00	07/16/17 14:13	1
Ethylbenzene	ND		0.0055	0.0024	mg/Kg	☼	07/16/17 09:00	07/16/17 14:13	1
Methylene Chloride	ND		0.0055	0.0026	mg/Kg	☼	07/16/17 09:00	07/16/17 14:13	1
Methyl tert-butyl ether	ND		0.0055	0.0041	mg/Kg	☼	07/16/17 09:00	07/16/17 14:13	1
n-Butylbenzene	ND		0.0055	0.0042	mg/Kg	☼	07/16/17 09:00	07/16/17 14:13	1
N-Propylbenzene	ND		0.0055	0.0023	mg/Kg	☼	07/16/17 09:00	07/16/17 14:13	1
sec-Butylbenzene	ND		0.0055	0.0027	mg/Kg	☼	07/16/17 09:00	07/16/17 14:13	1
tert-Butylbenzene	ND		0.0055	0.0020	mg/Kg	☼	07/16/17 09:00	07/16/17 14:13	1
Tetrachloroethene	ND		0.0055	0.0022	mg/Kg	☼	07/16/17 09:00	07/16/17 14:13	1
Toluene	ND		0.0055	0.0019	mg/Kg	☼	07/16/17 09:00	07/16/17 14:13	1
trans-1,2-Dichloroethene	ND		0.0055	0.0028	mg/Kg	☼	07/16/17 09:00	07/16/17 14:13	1
1,1,1-Trichloroethane	ND		0.0055	0.0028	mg/Kg	☼	07/16/17 09:00	07/16/17 14:13	1
Trichloroethene	ND		0.0055	0.0017	mg/Kg	☼	07/16/17 09:00	07/16/17 14:13	1
1,2,4-Trimethylbenzene	ND		0.0055	0.0015	mg/Kg	☼	07/16/17 09:00	07/16/17 14:13	1
1,3,5-Trimethylbenzene	ND		0.0055	0.0019	mg/Kg	☼	07/16/17 09:00	07/16/17 14:13	1
Vinyl chloride	ND		0.0055	0.0041	mg/Kg	☼	07/16/17 09:00	07/16/17 14:13	1
Xylenes, Total	ND		0.011	0.0048	mg/Kg	☼	07/16/17 09:00	07/16/17 14:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*63 - 120*	*07/16/17 09:00*	*07/16/17 14:13*	*1*
Dibromofluoromethane (Surr)	*89*		*68 - 121*	*07/16/17 09:00*	*07/16/17 14:13*	*1*
1,2-Dichloroethane-d4 (Surr)	*82*		*52 - 124*	*07/16/17 09:00*	*07/16/17 14:13*	*1*
Toluene-d8 (Surr)	*118*		*72 - 127*	*07/16/17 09:00*	*07/16/17 14:13*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**10.9**		0.1	0.1	%			07/12/17 16:42	1
Percent Solids	**89.1**		0.1	0.1	%			07/12/17 16:42	1

Client Sample ID: W3, S3, C 71117 — Lab Sample ID: 180-68096-29

Date Collected: 07/11/17 14:25 — **Matrix: Solid**
Date Received: 07/12/17 09:10 — **Percent Solids: 90.8**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.073	0.025	mg/Kg	☼	07/13/17 03:37	07/17/17 12:16	10
Acenaphthylene	**0.13**		0.073	0.025	mg/Kg	☼	07/13/17 03:37	07/17/17 12:16	10
Anthracene	**0.15**		0.073	0.027	mg/Kg	☼	07/13/17 03:37	07/17/17 12:16	10
Benzo[a]anthracene	**0.64**		0.073	0.029	mg/Kg	☼	07/13/17 03:37	07/17/17 12:16	10
Benzo[a]pyrene	**0.72**		0.073	0.030	mg/Kg	☼	07/13/17 03:37	07/17/17 12:16	10
Benzo[b]fluoranthene	**0.84**		0.073	0.032	mg/Kg	☼	07/13/17 03:37	07/17/17 12:16	10

Client Sample ID: W3, S3, C 71117 **Lab Sample ID: 180-68096-29**
Date Collected: 07/11/17 14:25 **Matrix: Solid**
Date Received: 07/12/17 09:10 **Percent Solids: 90.8**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	**0.73**		0.073	0.032	mg/Kg	☼	07/13/17 03:37	07/17/17 12:16	10
Benzo[k]fluoranthene	**0.38**		0.073	0.025	mg/Kg	☼	07/13/17 03:37	07/17/17 12:16	10
Chrysene	**0.56**		0.073	0.028	mg/Kg	☼	07/13/17 03:37	07/17/17 12:16	10
Dibenz(a,h)anthracene	**0.19**		0.073	0.030	mg/Kg	☼	07/13/17 03:37	07/17/17 12:16	10
Dibenzofuran	**0.070**	**J**	0.36	0.029	mg/Kg	☼	07/13/17 03:37	07/17/17 12:16	10
2,4-Dinitrotoluene	ND		0.36	0.048	mg/Kg	☼	07/13/17 03:37	07/17/17 12:16	10
1,4-Dioxane	ND		0.73	0.055	mg/Kg	☼	07/13/17 03:37	07/17/17 12:16	10
Fluoranthene	**0.92**		0.073	0.029	mg/Kg	☼	07/13/17 03:37	07/17/17 12:16	10
Fluorene	**0.042**	**J**	0.073	0.026	mg/Kg	☼	07/13/17 03:37	07/17/17 12:16	10
Hexachlorobenzene	ND		0.073	0.029	mg/Kg	☼	07/13/17 03:37	07/17/17 12:16	10
Hexachlorobutadiene	ND		0.073	0.023	mg/Kg	☼	07/13/17 03:37	07/17/17 12:16	10
Hexachloroethane	ND		0.36	0.026	mg/Kg	☼	07/13/17 03:37	07/17/17 12:16	10
Indeno[1,2,3-cd]pyrene	**0.61**		0.073	0.028	mg/Kg	☼	07/13/17 03:37	07/17/17 12:16	10
2-Methylphenol	ND		0.36	0.032	mg/Kg	☼	07/13/17 03:37	07/17/17 12:16	10
Methylphenol, 3 & 4	ND		0.36	0.032	mg/Kg	☼	07/13/17 03:37	07/17/17 12:16	10
Naphthalene	**0.18**		0.073	0.026	mg/Kg	☼	07/13/17 03:37	07/17/17 12:16	10
Nitrobenzene	ND		0.73	0.028	mg/Kg	☼	07/13/17 03:37	07/17/17 12:16	10
Pentachlorophenol	ND		1.9	0.69	mg/Kg	☼	07/13/17 03:37	07/17/17 12:16	10
Phenanthrene	**0.46**		0.073	0.030	mg/Kg	☼	07/13/17 03:37	07/17/17 12:16	10
Phenol	ND		0.36	0.049	mg/Kg	☼	07/13/17 03:37	07/17/17 12:16	10
Pyrene	**1.1**		0.073	0.032	mg/Kg	☼	07/13/17 03:37	07/17/17 12:16	10
Pyridine	ND		0.36	0.035	mg/Kg	☼	07/13/17 03:37	07/17/17 12:16	10
2,4,5-Trichlorophenol	ND		0.36	0.035	mg/Kg	☼	07/13/17 03:37	07/17/17 12:16	10
2,4,6-Trichlorophenol	ND		0.36	0.032	mg/Kg	☼	07/13/17 03:37	07/17/17 12:16	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*59*		*42 - 100*	*07/13/17 03:37*	*07/17/17 12:16*	*10*
2-Fluorophenol (Surr)	*54*		*21 - 107*	*07/13/17 03:37*	*07/17/17 12:16*	*10*
Nitrobenzene-d5 (Surr)	*61*		*35 - 109*	*07/13/17 03:37*	*07/17/17 12:16*	*10*
Phenol-d5 (Surr)	*56*		*29 - 105*	*07/13/17 03:37*	*07/17/17 12:16*	*10*
Terphenyl-d14 (Surr)	*68*		*36 - 113*	*07/13/17 03:37*	*07/17/17 12:16*	*10*
2,4,6-Tribromophenol (Surr)	*56*		*20 - 134*	*07/13/17 03:37*	*07/17/17 12:16*	*10*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.018	0.0096	mg/Kg	☼	07/13/17 03:34	07/14/17 18:09	1
PCB-1221	ND		0.018	0.0094	mg/Kg	☼	07/13/17 03:34	07/14/17 18:09	1
PCB-1232	ND		0.018	0.0072	mg/Kg	☼	07/13/17 03:34	07/14/17 18:09	1
PCB-1242	ND		0.018	0.014	mg/Kg	☼	07/13/17 03:34	07/14/17 18:09	1
PCB-1248	**0.88**		0.018	0.0086	mg/Kg	☼	07/13/17 03:34	07/14/17 18:09	1
PCB-1254	**0.59**		0.018	0.0079	mg/Kg	☼	07/13/17 03:34	07/14/17 18:09	1
PCB-1260	**0.17**		0.018	0.012	mg/Kg	☼	07/13/17 03:34	07/14/17 18:09	1
PCB-1262	ND		0.018	0.013	mg/Kg	☼	07/13/17 03:34	07/14/17 18:09	1
PCB-1268	ND		0.018	0.0055	mg/Kg	☼	07/13/17 03:34	07/14/17 18:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*69*		*23 - 150*	*07/13/17 03:34*	*07/14/17 18:09*	*1*
DCB Decachlorobiphenyl (Surr)	*80*		*23 - 150*	*07/13/17 03:34*	*07/14/17 18:09*	*1*
Tetrachloro-m-xylene (Surr)	*77*		*27 - 138*	*07/13/17 03:34*	*07/14/17 18:09*	*1*
Tetrachloro-m-xylene (Surr)	*69*		*27 - 138*	*07/13/17 03:34*	*07/14/17 18:09*	*1*

Client Sample ID: W3, S3, C 71117

Lab Sample ID: 180-68096-29

Date Collected: 07/11/17 14:25
Matrix: Solid
Date Received: 07/12/17 09:10
Percent Solids: 90.8

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.6		1.0	0.45	mg/Kg	☼	07/13/17 09:05	07/14/17 14:08	1
Barium	77		21	5.5	mg/Kg	☼	07/13/17 09:05	07/14/17 14:08	1
Beryllium	0.27	J	0.41	0.11	mg/Kg	☼	07/13/17 09:05	07/14/17 14:08	1
Cadmium	0.17	J	0.51	0.12	mg/Kg	☼	07/13/17 09:05	07/14/17 14:08	1
Chromium	8.2		0.51	0.13	mg/Kg	☼	07/13/17 09:05	07/14/17 14:08	1
Copper	38		2.6	0.79	mg/Kg	☼	07/13/17 09:05	07/14/17 14:08	1
Lead	42		1.0	0.34	mg/Kg	☼	07/13/17 09:05	07/14/17 14:08	1
Manganese	340		1.5	0.42	mg/Kg	☼	07/13/17 09:05	07/14/17 14:08	1
Nickel	16		4.1	0.93	mg/Kg	☼	07/13/17 09:05	07/14/17 14:08	1
Selenium	0.90	J	1.0	0.41	mg/Kg	☼	07/13/17 09:05	07/14/17 14:08	1
Silver	ND		0.51	0.17	mg/Kg	☼	07/13/17 09:05	07/14/17 14:08	1
Zinc	75		2.1	1.0	mg/Kg	☼	07/13/17 09:05	07/14/17 14:08	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.48		0.037	0.0083	mg/Kg	☼	07/14/17 11:17	07/17/17 09:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.2		0.1	0.1	%			07/12/17 16:42	1
Percent Solids	90.8		0.1	0.1	%			07/12/17 16:42	1
Cyanide, Total	0.93		0.55	0.17	mg/Kg	☼	07/13/17 12:02	07/13/17 16:19	1

Client Sample ID: W3, S4, A 71117

Lab Sample ID: 180-68096-30

Date Collected: 07/11/17 14:45
Matrix: Solid
Date Received: 07/12/17 09:10
Percent Solids: 90.1

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.021	0.0032	mg/Kg	☼	07/16/17 09:00	07/16/17 19:55	1
Benzene	ND		0.0051	0.0020	mg/Kg	☼	07/16/17 09:00	07/16/17 19:55	1
2-Butanone (MEK)	ND		0.0051	0.0030	mg/Kg	☼	07/16/17 09:00	07/16/17 19:55	1
Carbon tetrachloride	ND		0.0051	0.0034	mg/Kg	☼	07/16/17 09:00	07/16/17 19:55	1
Chlorobenzene	ND		0.0051	0.0016	mg/Kg	☼	07/16/17 09:00	07/16/17 19:55	1
Chloroform	ND		0.0051	0.0022	mg/Kg	☼	07/16/17 09:00	07/16/17 19:55	1
cis-1,2-Dichloroethene	ND		0.0051	0.0016	mg/Kg	☼	07/16/17 09:00	07/16/17 19:55	1
1,2-Dichlorobenzene	ND		0.0051	0.0041	mg/Kg	☼	07/16/17 09:00	07/16/17 19:55	1
1,3-Dichlorobenzene	ND		0.0051	0.0016	mg/Kg	☼	07/16/17 09:00	07/16/17 19:55	1
1,4-Dichlorobenzene	ND		0.0051	0.0010	mg/Kg	☼	07/16/17 09:00	07/16/17 19:55	1
1,1-Dichloroethane	ND		0.0051	0.0019	mg/Kg	☼	07/16/17 09:00	07/16/17 19:55	1
1,2-Dichloroethane	ND		0.0051	0.0015	mg/Kg	☼	07/16/17 09:00	07/16/17 19:55	1
1,1-Dichloroethene	ND		0.0051	0.0029	mg/Kg	☼	07/16/17 09:00	07/16/17 19:55	1
Ethylbenzene	ND		0.0051	0.0022	mg/Kg	☼	07/16/17 09:00	07/16/17 19:55	1
Methylene Chloride	ND		0.0051	0.0024	mg/Kg	☼	07/16/17 09:00	07/16/17 19:55	1
Methyl tert-butyl ether	ND		0.0051	0.0038	mg/Kg	☼	07/16/17 09:00	07/16/17 19:55	1
n-Butylbenzene	ND		0.0051	0.0039	mg/Kg	☼	07/16/17 09:00	07/16/17 19:55	1
N-Propylbenzene	ND		0.0051	0.0022	mg/Kg	☼	07/16/17 09:00	07/16/17 19:55	1
sec-Butylbenzene	ND		0.0051	0.0025	mg/Kg	☼	07/16/17 09:00	07/16/17 19:55	1
tert-Butylbenzene	ND		0.0051	0.0019	mg/Kg	☼	07/16/17 09:00	07/16/17 19:55	1
Tetrachloroethene	ND		0.0051	0.0021	mg/Kg	☼	07/16/17 09:00	07/16/17 19:55	1

Client Sample ID: W3, S4, A 71117

Lab Sample ID: 180-68096-30

Date Collected: 07/11/17 14:45
Matrix: Solid
Date Received: 07/12/17 09:10
Percent Solids: 90.1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		0.0051	0.0017	mg/Kg	☼	07/16/17 09:00	07/16/17 19:55	1
trans-1,2-Dichloroethene	ND		0.0051	0.0026	mg/Kg	☼	07/16/17 09:00	07/16/17 19:55	1
1,1,1-Trichloroethane	ND		0.0051	0.0026	mg/Kg	☼	07/16/17 09:00	07/16/17 19:55	1
Trichloroethene	ND		0.0051	0.0015	mg/Kg	☼	07/16/17 09:00	07/16/17 19:55	1
1,2,4-Trimethylbenzene	ND		0.0051	0.0014	mg/Kg	☼	07/16/17 09:00	07/16/17 19:55	1
1,3,5-Trimethylbenzene	ND		0.0051	0.0018	mg/Kg	☼	07/16/17 09:00	07/16/17 19:55	1
Vinyl chloride	ND		0.0051	0.0038	mg/Kg	☼	07/16/17 09:00	07/16/17 19:55	1
Xylenes, Total	ND		0.010	0.0044	mg/Kg	☼	07/16/17 09:00	07/16/17 19:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*63 - 120*	*07/16/17 09:00*	*07/16/17 19:55*	*1*
Dibromofluoromethane (Surr)	*96*		*68 - 121*	*07/16/17 09:00*	*07/16/17 19:55*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*52 - 124*	*07/16/17 09:00*	*07/16/17 19:55*	*1*
Toluene-d8 (Surr)	*106*		*72 - 127*	*07/16/17 09:00*	*07/16/17 19:55*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.9**		0.1	0.1	%			07/12/17 16:42	1
Percent Solids	**90.1**		0.1	0.1	%			07/12/17 16:42	1

Client Sample ID: W3, S4, B 71117

Lab Sample ID: 180-68096-31

Date Collected: 07/11/17 14:50
Matrix: Solid
Date Received: 07/12/17 09:10
Percent Solids: 91.9

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.018	0.0028	mg/Kg	☼	07/16/17 09:00	07/16/17 14:59	1
Benzene	ND		0.0044	0.0017	mg/Kg	☼	07/16/17 09:00	07/16/17 14:59	1
2-Butanone (MEK)	ND		0.0044	0.0026	mg/Kg	☼	07/16/17 09:00	07/16/17 14:59	1
Carbon tetrachloride	ND		0.0044	0.0029	mg/Kg	☼	07/16/17 09:00	07/16/17 14:59	1
Chlorobenzene	ND		0.0044	0.0014	mg/Kg	☼	07/16/17 09:00	07/16/17 14:59	1
Chloroform	ND		0.0044	0.0019	mg/Kg	☼	07/16/17 09:00	07/16/17 14:59	1
cis-1,2-Dichloroethene	ND		0.0044	0.0014	mg/Kg	☼	07/16/17 09:00	07/16/17 14:59	1
1,2-Dichlorobenzene	ND		0.0044	0.0035	mg/Kg	☼	07/16/17 09:00	07/16/17 14:59	1
1,3-Dichlorobenzene	ND		0.0044	0.0014	mg/Kg	☼	07/16/17 09:00	07/16/17 14:59	1
1,4-Dichlorobenzene	ND		0.0044	0.00090	mg/Kg	☼	07/16/17 09:00	07/16/17 14:59	1
1,1-Dichloroethane	ND		0.0044	0.0016	mg/Kg	☼	07/16/17 09:00	07/16/17 14:59	1
1,2-Dichloroethane	ND		0.0044	0.0013	mg/Kg	☼	07/16/17 09:00	07/16/17 14:59	1
1,1-Dichloroethene	ND		0.0044	0.0025	mg/Kg	☼	07/16/17 09:00	07/16/17 14:59	1
Ethylbenzene	ND		0.0044	0.0019	mg/Kg	☼	07/16/17 09:00	07/16/17 14:59	1
Methylene Chloride	ND		0.0044	0.0021	mg/Kg	☼	07/16/17 09:00	07/16/17 14:59	1
Methyl tert-butyl ether	ND		0.0044	0.0032	mg/Kg	☼	07/16/17 09:00	07/16/17 14:59	1
n-Butylbenzene	ND		0.0044	0.0033	mg/Kg	☼	07/16/17 09:00	07/16/17 14:59	1
N-Propylbenzene	ND		0.0044	0.0019	mg/Kg	☼	07/16/17 09:00	07/16/17 14:59	1
sec-Butylbenzene	ND		0.0044	0.0021	mg/Kg	☼	07/16/17 09:00	07/16/17 14:59	1
tert-Butylbenzene	ND		0.0044	0.0016	mg/Kg	☼	07/16/17 09:00	07/16/17 14:59	1
Tetrachloroethene	ND		0.0044	0.0018	mg/Kg	☼	07/16/17 09:00	07/16/17 14:59	1
Toluene	ND		0.0044	0.0015	mg/Kg	☼	07/16/17 09:00	07/16/17 14:59	1
trans-1,2-Dichloroethene	ND		0.0044	0.0022	mg/Kg	☼	07/16/17 09:00	07/16/17 14:59	1
1,1,1-Trichloroethane	ND		0.0044	0.0022	mg/Kg	☼	07/16/17 09:00	07/16/17 14:59	1

Client Sample ID: W3, S4, B 71117 — Lab Sample ID: 180-68096-31

Date Collected: 07/11/17 14:50 — **Matrix: Solid**
Date Received: 07/12/17 09:10 — **Percent Solids: 91.9**

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	ND		0.0044	0.0013	mg/Kg	☼	07/16/17 09:00	07/16/17 14:59	1
1,2,4-Trimethylbenzene	ND		0.0044	0.0012	mg/Kg	☼	07/16/17 09:00	07/16/17 14:59	1
1,3,5-Trimethylbenzene	ND		0.0044	0.0015	mg/Kg	☼	07/16/17 09:00	07/16/17 14:59	1
Vinyl chloride	ND		0.0044	0.0032	mg/Kg	☼	07/16/17 09:00	07/16/17 14:59	1
Xylenes, Total	ND		0.0088	0.0038	mg/Kg	☼	07/16/17 09:00	07/16/17 14:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*84*		*63 - 120*	*07/16/17 09:00*	*07/16/17 14:59*	*1*
Dibromofluoromethane (Surr)	*89*		*68 - 121*	*07/16/17 09:00*	*07/16/17 14:59*	*1*
1,2-Dichloroethane-d4 (Surr)	*79*		*52 - 124*	*07/16/17 09:00*	*07/16/17 14:59*	*1*
Toluene-d8 (Surr)	*121*		*72 - 127*	*07/16/17 09:00*	*07/16/17 14:59*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**8.1**		0.1	0.1	%			07/12/17 16:42	1
Percent Solids	**91.9**		0.1	0.1	%			07/12/17 16:42	1

Client Sample ID: W3, S4, C 71117 — Lab Sample ID: 180-68096-32

Date Collected: 07/11/17 14:55 — **Matrix: Solid**
Date Received: 07/12/17 09:10 — **Percent Solids: 90.4**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.074	0.025	mg/Kg	☼	07/13/17 03:37	07/17/17 12:43	10
Acenaphthylene	**0.15**		0.074	0.025	mg/Kg	☼	07/13/17 03:37	07/17/17 12:43	10
Anthracene	**0.19**		0.074	0.027	mg/Kg	☼	07/13/17 03:37	07/17/17 12:43	10
Benzo[a]anthracene	**0.74**		0.074	0.029	mg/Kg	☼	07/13/17 03:37	07/17/17 12:43	10
Benzo[a]pyrene	**0.73**		0.074	0.031	mg/Kg	☼	07/13/17 03:37	07/17/17 12:43	10
Benzo[b]fluoranthene	**0.96**		0.074	0.032	mg/Kg	☼	07/13/17 03:37	07/17/17 12:43	10
Benzo[g,h,i]perylene	**0.75**		0.074	0.032	mg/Kg	☼	07/13/17 03:37	07/17/17 12:43	10
Benzo[k]fluoranthene	**0.31**		0.074	0.026	mg/Kg	☼	07/13/17 03:37	07/17/17 12:43	10
Chrysene	**0.70**		0.074	0.029	mg/Kg	☼	07/13/17 03:37	07/17/17 12:43	10
Dibenz(a,h)anthracene	**0.14**		0.074	0.031	mg/Kg	☼	07/13/17 03:37	07/17/17 12:43	10
Dibenzofuran	**0.068**	**J**	0.37	0.030	mg/Kg	☼	07/13/17 03:37	07/17/17 12:43	10
2,4-Dinitrotoluene	ND		0.37	0.049	mg/Kg	☼	07/13/17 03:37	07/17/17 12:43	10
1,4-Dioxane	ND		0.74	0.056	mg/Kg	☼	07/13/17 03:37	07/17/17 12:43	10
Fluoranthene	**1.0**		0.074	0.029	mg/Kg	☼	07/13/17 03:37	07/17/17 12:43	10
Fluorene	**0.041**	**J**	0.074	0.026	mg/Kg	☼	07/13/17 03:37	07/17/17 12:43	10
Hexachlorobenzene	ND		0.074	0.030	mg/Kg	☼	07/13/17 03:37	07/17/17 12:43	10
Hexachlorobutadiene	ND		0.074	0.023	mg/Kg	☼	07/13/17 03:37	07/17/17 12:43	10
Hexachloroethane	ND		0.37	0.026	mg/Kg	☼	07/13/17 03:37	07/17/17 12:43	10
Indeno[1,2,3-cd]pyrene	**0.66**		0.074	0.029	mg/Kg	☼	07/13/17 03:37	07/17/17 12:43	10
2-Methylphenol	ND		0.37	0.033	mg/Kg	☼	07/13/17 03:37	07/17/17 12:43	10
Methylphenol, 3 & 4	ND		0.37	0.033	mg/Kg	☼	07/13/17 03:37	07/17/17 12:43	10
Naphthalene	**0.23**		0.074	0.027	mg/Kg	☼	07/13/17 03:37	07/17/17 12:43	10
Nitrobenzene	ND		0.74	0.028	mg/Kg	☼	07/13/17 03:37	07/17/17 12:43	10
Pentachlorophenol	ND		1.9	0.70	mg/Kg	☼	07/13/17 03:37	07/17/17 12:43	10
Phenanthrene	**0.57**		0.074	0.031	mg/Kg	☼	07/13/17 03:37	07/17/17 12:43	10
Phenol	ND		0.37	0.050	mg/Kg	☼	07/13/17 03:37	07/17/17 12:43	10
Pyrene	**1.2**		0.074	0.033	mg/Kg	☼	07/13/17 03:37	07/17/17 12:43	10

Client Sample ID: W3, S4, C 71117 **Lab Sample ID: 180-68096-32**
Date Collected: 07/11/17 14:55 **Matrix: Solid**
Date Received: 07/12/17 09:10 **Percent Solids: 90.4**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyridine	ND		0.37	0.035	mg/Kg	☼	07/13/17 03:37	07/17/17 12:43	10
2,4,5-Trichlorophenol	ND		0.37	0.035	mg/Kg	☼	07/13/17 03:37	07/17/17 12:43	10
2,4,6-Trichlorophenol	ND		0.37	0.032	mg/Kg	☼	07/13/17 03:37	07/17/17 12:43	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*60*		*42 - 100*	*07/13/17 03:37*	*07/17/17 12:43*	*10*
2-Fluorophenol (Surr)	*58*		*21 - 107*	*07/13/17 03:37*	*07/17/17 12:43*	*10*
Nitrobenzene-d5 (Surr)	*64*		*35 - 109*	*07/13/17 03:37*	*07/17/17 12:43*	*10*
Phenol-d5 (Surr)	*53*		*29 - 105*	*07/13/17 03:37*	*07/17/17 12:43*	*10*
Terphenyl-d14 (Surr)	*63*		*36 - 113*	*07/13/17 03:37*	*07/17/17 12:43*	*10*
2,4,6-Tribromophenol (Surr)	*55*		*20 - 134*	*07/13/17 03:37*	*07/17/17 12:43*	*10*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.018	0.0096	mg/Kg	☼	07/13/17 03:34	07/14/17 18:29	1
PCB-1221	ND		0.018	0.0094	mg/Kg	☼	07/13/17 03:34	07/14/17 18:29	1
PCB-1232	ND		0.018	0.0072	mg/Kg	☼	07/13/17 03:34	07/14/17 18:29	1
PCB-1242	ND		0.018	0.014	mg/Kg	☼	07/13/17 03:34	07/14/17 18:29	1
PCB-1248	**0.93**		0.018	0.0086	mg/Kg	☼	07/13/17 03:34	07/14/17 18:29	1
PCB-1254	**0.61**		0.018	0.0079	mg/Kg	☼	07/13/17 03:34	07/14/17 18:29	1
PCB-1260	**0.19**		0.018	0.012	mg/Kg	☼	07/13/17 03:34	07/14/17 18:29	1
PCB-1262	ND		0.018	0.013	mg/Kg	☼	07/13/17 03:34	07/14/17 18:29	1
PCB-1268	ND		0.018	0.0055	mg/Kg	☼	07/13/17 03:34	07/14/17 18:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*76*		*23 - 150*	*07/13/17 03:34*	*07/14/17 18:29*	*1*
DCB Decachlorobiphenyl (Surr)	*85*		*23 - 150*	*07/13/17 03:34*	*07/14/17 18:29*	*1*
Tetrachloro-m-xylene (Surr)	*82*		*27 - 138*	*07/13/17 03:34*	*07/14/17 18:29*	*1*
Tetrachloro-m-xylene (Surr)	*73*		*27 - 138*	*07/13/17 03:34*	*07/14/17 18:29*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**5.8**		1.1	0.48	mg/Kg	☼	07/13/17 09:05	07/14/17 14:13	1
Barium	**79**		22	5.9	mg/Kg	☼	07/13/17 09:05	07/14/17 14:13	1
Beryllium	**0.27**	**J**	0.44	0.11	mg/Kg	☼	07/13/17 09:05	07/14/17 14:13	1
Cadmium	**0.14**	**J**	0.55	0.12	mg/Kg	☼	07/13/17 09:05	07/14/17 14:13	1
Chromium	**8.2**		0.55	0.14	mg/Kg	☼	07/13/17 09:05	07/14/17 14:13	1
Copper	**37**		2.7	0.84	mg/Kg	☼	07/13/17 09:05	07/14/17 14:13	1
Lead	**53**		1.1	0.36	mg/Kg	☼	07/13/17 09:05	07/14/17 14:13	1
Manganese	**400**		1.6	0.44	mg/Kg	☼	07/13/17 09:05	07/14/17 14:13	1
Nickel	**15**		4.4	0.99	mg/Kg	☼	07/13/17 09:05	07/14/17 14:13	1
Selenium	ND		1.1	0.43	mg/Kg	☼	07/13/17 09:05	07/14/17 14:13	1
Silver	ND		0.55	0.18	mg/Kg	☼	07/13/17 09:05	07/14/17 14:13	1
Zinc	**78**		2.2	1.1	mg/Kg	☼	07/13/17 09:05	07/14/17 14:13	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.77**		0.032	0.0072	mg/Kg	☼	07/14/17 11:17	07/17/17 09:39	1

Client Sample ID: W3, S4, C 71117 — Lab Sample ID: 180-68096-32

Date Collected: 07/11/17 14:55 — **Matrix: Solid**
Date Received: 07/12/17 09:10 — **Percent Solids: 90.4**

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.6**		0.1	0.1	%			07/12/17 16:42	1
Percent Solids	**90.4**		0.1	0.1	%			07/12/17 16:42	1
Cyanide, Total	ND		0.54	0.17	mg/Kg	☼	07/13/17 12:02	07/13/17 16:21	1

Client Sample ID: DUP-5 — Lab Sample ID: 180-68096-33

Date Collected: 07/11/17 00:00 — **Matrix: Solid**
Date Received: 07/12/17 09:10 — **Percent Solids: 90.1**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.020	0.0032	mg/Kg	☼	07/16/17 09:00	07/16/17 15:22	1
Benzene	ND		0.0050	0.0020	mg/Kg	☼	07/16/17 09:00	07/16/17 15:22	1
2-Butanone (MEK)	ND		0.0050	0.0029	mg/Kg	☼	07/16/17 09:00	07/16/17 15:22	1
Carbon tetrachloride	ND		0.0050	0.0033	mg/Kg	☼	07/16/17 09:00	07/16/17 15:22	1
Chlorobenzene	ND		0.0050	0.0016	mg/Kg	☼	07/16/17 09:00	07/16/17 15:22	1
Chloroform	ND		0.0050	0.0021	mg/Kg	☼	07/16/17 09:00	07/16/17 15:22	1
cis-1,2-Dichloroethene	ND		0.0050	0.0016	mg/Kg	☼	07/16/17 09:00	07/16/17 15:22	1
1,2-Dichlorobenzene	ND		0.0050	0.0041	mg/Kg	☼	07/16/17 09:00	07/16/17 15:22	1
1,3-Dichlorobenzene	ND		0.0050	0.0016	mg/Kg	☼	07/16/17 09:00	07/16/17 15:22	1
1,4-Dichlorobenzene	ND		0.0050	0.0010	mg/Kg	☼	07/16/17 09:00	07/16/17 15:22	1
1,1-Dichloroethane	ND		0.0050	0.0018	mg/Kg	☼	07/16/17 09:00	07/16/17 15:22	1
1,2-Dichloroethane	ND		0.0050	0.0015	mg/Kg	☼	07/16/17 09:00	07/16/17 15:22	1
1,1-Dichloroethene	ND		0.0050	0.0029	mg/Kg	☼	07/16/17 09:00	07/16/17 15:22	1
Ethylbenzene	ND		0.0050	0.0022	mg/Kg	☼	07/16/17 09:00	07/16/17 15:22	1
Methylene Chloride	ND		0.0050	0.0024	mg/Kg	☼	07/16/17 09:00	07/16/17 15:22	1
Methyl tert-butyl ether	ND		0.0050	0.0037	mg/Kg	☼	07/16/17 09:00	07/16/17 15:22	1
n-Butylbenzene	ND		0.0050	0.0038	mg/Kg	☼	07/16/17 09:00	07/16/17 15:22	1
N-Propylbenzene	ND		0.0050	0.0021	mg/Kg	☼	07/16/17 09:00	07/16/17 15:22	1
sec-Butylbenzene	ND		0.0050	0.0025	mg/Kg	☼	07/16/17 09:00	07/16/17 15:22	1
tert-Butylbenzene	ND		0.0050	0.0018	mg/Kg	☼	07/16/17 09:00	07/16/17 15:22	1
Tetrachloroethene	ND		0.0050	0.0020	mg/Kg	☼	07/16/17 09:00	07/16/17 15:22	1
Toluene	ND		0.0050	0.0017	mg/Kg	☼	07/16/17 09:00	07/16/17 15:22	1
trans-1,2-Dichloroethene	ND		0.0050	0.0026	mg/Kg	☼	07/16/17 09:00	07/16/17 15:22	1
1,1,1-Trichloroethane	ND		0.0050	0.0025	mg/Kg	☼	07/16/17 09:00	07/16/17 15:22	1
Trichloroethene	ND		0.0050	0.0015	mg/Kg	☼	07/16/17 09:00	07/16/17 15:22	1
1,2,4-Trimethylbenzene	ND		0.0050	0.0014	mg/Kg	☼	07/16/17 09:00	07/16/17 15:22	1
1,3,5-Trimethylbenzene	ND		0.0050	0.0017	mg/Kg	☼	07/16/17 09:00	07/16/17 15:22	1
Vinyl chloride	ND		0.0050	0.0037	mg/Kg	☼	07/16/17 09:00	07/16/17 15:22	1
Xylenes, Total	ND		0.010	0.0043	mg/Kg	☼	07/16/17 09:00	07/16/17 15:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*85*		*63 - 120*	*07/16/17 09:00*	*07/16/17 15:22*	*1*
Dibromofluoromethane (Surr)	*90*		*68 - 121*	*07/16/17 09:00*	*07/16/17 15:22*	*1*
1,2-Dichloroethane-d4 (Surr)	*83*		*52 - 124*	*07/16/17 09:00*	*07/16/17 15:22*	*1*
Toluene-d8 (Surr)	*121*		*72 - 127*	*07/16/17 09:00*	*07/16/17 15:22*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.9**		0.1	0.1	%			07/12/17 16:42	1
Percent Solids	**90.1**		0.1	0.1	%			07/12/17 16:42	1

Client Sample ID: W3, S5, A 71117

Lab Sample ID: 180-68096-34
Date Collected: 07/11/17 15:15
Matrix: Solid
Date Received: 07/12/17 09:10
Percent Solids: 91.1

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.021	0.0032	mg/Kg	☼	07/13/17 10:30	07/14/17 17:23	1
Benzene	ND		0.0052	0.0020	mg/Kg	☼	07/13/17 10:30	07/14/17 17:23	1
2-Butanone (MEK)	ND		0.0052	0.0030	mg/Kg	☼	07/13/17 10:30	07/14/17 17:23	1
Carbon tetrachloride	ND		0.0052	0.0034	mg/Kg	☼	07/13/17 10:30	07/14/17 17:23	1
Chlorobenzene	ND		0.0052	0.0016	mg/Kg	☼	07/13/17 10:30	07/14/17 17:23	1
Chloroform	ND		0.0052	0.0022	mg/Kg	☼	07/13/17 10:30	07/14/17 17:23	1
cis-1,2-Dichloroethene	ND		0.0052	0.0016	mg/Kg	☼	07/13/17 10:30	07/14/17 17:23	1
1,2-Dichlorobenzene	ND		0.0052	0.0041	mg/Kg	☼	07/13/17 10:30	07/14/17 17:23	1
1,3-Dichlorobenzene	ND		0.0052	0.0016	mg/Kg	☼	07/13/17 10:30	07/14/17 17:23	1
1,4-Dichlorobenzene	ND		0.0052	0.0011	mg/Kg	☼	07/13/17 10:30	07/14/17 17:23	1
1,1-Dichloroethane	ND		0.0052	0.0019	mg/Kg	☼	07/13/17 10:30	07/14/17 17:23	1
1,2-Dichloroethane	ND		0.0052	0.0015	mg/Kg	☼	07/13/17 10:30	07/14/17 17:23	1
1,1-Dichloroethene	ND		0.0052	0.0029	mg/Kg	☼	07/13/17 10:30	07/14/17 17:23	1
Ethylbenzene	ND		0.0052	0.0022	mg/Kg	☼	07/13/17 10:30	07/14/17 17:23	1
Methylene Chloride	ND		0.0052	0.0024	mg/Kg	☼	07/13/17 10:30	07/14/17 17:23	1
Methyl tert-butyl ether	ND		0.0052	0.0038	mg/Kg	☼	07/13/17 10:30	07/14/17 17:23	1
n-Butylbenzene	ND		0.0052	0.0039	mg/Kg	☼	07/13/17 10:30	07/14/17 17:23	1
N-Propylbenzene	ND		0.0052	0.0022	mg/Kg	☼	07/13/17 10:30	07/14/17 17:23	1
sec-Butylbenzene	ND		0.0052	0.0025	mg/Kg	☼	07/13/17 10:30	07/14/17 17:23	1
tert-Butylbenzene	ND		0.0052	0.0019	mg/Kg	☼	07/13/17 10:30	07/14/17 17:23	1
Tetrachloroethene	ND		0.0052	0.0021	mg/Kg	☼	07/13/17 10:30	07/14/17 17:23	1
Toluene	ND		0.0052	0.0017	mg/Kg	☼	07/13/17 10:30	07/14/17 17:23	1
trans-1,2-Dichloroethene	ND		0.0052	0.0026	mg/Kg	☼	07/13/17 10:30	07/14/17 17:23	1
1,1,1-Trichloroethane	ND		0.0052	0.0026	mg/Kg	☼	07/13/17 10:30	07/14/17 17:23	1
Trichloroethene	ND		0.0052	0.0015	mg/Kg	☼	07/13/17 10:30	07/14/17 17:23	1
1,2,4-Trimethylbenzene	ND		0.0052	0.0014	mg/Kg	☼	07/13/17 10:30	07/14/17 17:23	1
1,3,5-Trimethylbenzene	ND		0.0052	0.0018	mg/Kg	☼	07/13/17 10:30	07/14/17 17:23	1
Vinyl chloride	ND		0.0052	0.0038	mg/Kg	☼	07/13/17 10:30	07/14/17 17:23	1
Xylenes, Total	ND		0.010	0.0044	mg/Kg	☼	07/13/17 10:30	07/14/17 17:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*81*		*63 - 120*	*07/13/17 10:30*	*07/14/17 17:23*	*1*
Dibromofluoromethane (Surr)	*85*		*68 - 121*	*07/13/17 10:30*	*07/14/17 17:23*	*1*
1,2-Dichloroethane-d4 (Surr)	*78*		*52 - 124*	*07/13/17 10:30*	*07/14/17 17:23*	*1*
Toluene-d8 (Surr)	*114*		*72 - 127*	*07/13/17 10:30*	*07/14/17 17:23*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**8.9**		0.1	0.1	%			07/12/17 16:42	1
Percent Solids	**91.1**		0.1	0.1	%			07/12/17 16:42	1

Client Sample ID: W3, S5, B 71117

Lab Sample ID: 180-68096-35
Date Collected: 07/11/17 15:20
Matrix: Solid
Date Received: 07/12/17 09:10
Percent Solids: 92.1

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.025	0.0039	mg/Kg	☼	07/13/17 10:30	07/14/17 17:00	1
Benzene	ND		0.0061	0.0024	mg/Kg	☼	07/13/17 10:30	07/14/17 17:00	1
2-Butanone (MEK)	ND		0.0061	0.0036	mg/Kg	☼	07/13/17 10:30	07/14/17 17:00	1

Client Sample ID: W3, S5, B 71117 — Lab Sample ID: 180-68096-35

Date Collected: 07/11/17 15:20 — **Matrix: Solid**
Date Received: 07/12/17 09:10 — **Percent Solids: 92.1**

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	ND		0.0061	0.0041	mg/Kg	☼	07/13/17 10:30	07/14/17 17:00	1
Chlorobenzene	ND		0.0061	0.0019	mg/Kg	☼	07/13/17 10:30	07/14/17 17:00	1
Chloroform	ND		0.0061	0.0026	mg/Kg	☼	07/13/17 10:30	07/14/17 17:00	1
cis-1,2-Dichloroethene	ND		0.0061	0.0019	mg/Kg	☼	07/13/17 10:30	07/14/17 17:00	1
1,2-Dichlorobenzene	ND		0.0061	0.0049	mg/Kg	☼	07/13/17 10:30	07/14/17 17:00	1
1,3-Dichlorobenzene	ND		0.0061	0.0020	mg/Kg	☼	07/13/17 10:30	07/14/17 17:00	1
1,4-Dichlorobenzene	ND		0.0061	0.0013	mg/Kg	☼	07/13/17 10:30	07/14/17 17:00	1
1,1-Dichloroethane	ND		0.0061	0.0022	mg/Kg	☼	07/13/17 10:30	07/14/17 17:00	1
1,2-Dichloroethane	ND		0.0061	0.0018	mg/Kg	☼	07/13/17 10:30	07/14/17 17:00	1
1,1-Dichloroethene	ND		0.0061	0.0035	mg/Kg	☼	07/13/17 10:30	07/14/17 17:00	1
Ethylbenzene	ND		0.0061	0.0026	mg/Kg	☼	07/13/17 10:30	07/14/17 17:00	1
Methylene Chloride	ND		0.0061	0.0029	mg/Kg	☼	07/13/17 10:30	07/14/17 17:00	1
Methyl tert-butyl ether	ND		0.0061	0.0045	mg/Kg	☼	07/13/17 10:30	07/14/17 17:00	1
n-Butylbenzene	ND		0.0061	0.0047	mg/Kg	☼	07/13/17 10:30	07/14/17 17:00	1
N-Propylbenzene	ND		0.0061	0.0026	mg/Kg	☼	07/13/17 10:30	07/14/17 17:00	1
sec-Butylbenzene	ND		0.0061	0.0030	mg/Kg	☼	07/13/17 10:30	07/14/17 17:00	1
tert-Butylbenzene	ND		0.0061	0.0022	mg/Kg	☼	07/13/17 10:30	07/14/17 17:00	1
Tetrachloroethene	ND		0.0061	0.0025	mg/Kg	☼	07/13/17 10:30	07/14/17 17:00	1
Toluene	ND		0.0061	0.0021	mg/Kg	☼	07/13/17 10:30	07/14/17 17:00	1
trans-1,2-Dichloroethene	ND		0.0061	0.0031	mg/Kg	☼	07/13/17 10:30	07/14/17 17:00	1
1,1,1-Trichloroethane	ND		0.0061	0.0031	mg/Kg	☼	07/13/17 10:30	07/14/17 17:00	1
Trichloroethene	ND		0.0061	0.0018	mg/Kg	☼	07/13/17 10:30	07/14/17 17:00	1
1,2,4-Trimethylbenzene	ND		0.0061	0.0017	mg/Kg	☼	07/13/17 10:30	07/14/17 17:00	1
1,3,5-Trimethylbenzene	ND		0.0061	0.0021	mg/Kg	☼	07/13/17 10:30	07/14/17 17:00	1
Vinyl chloride	ND		0.0061	0.0045	mg/Kg	☼	07/13/17 10:30	07/14/17 17:00	1
Xylenes, Total	ND		0.012	0.0053	mg/Kg	☼	07/13/17 10:30	07/14/17 17:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*83*		*63 - 120*	*07/13/17 10:30*	*07/14/17 17:00*	*1*
Dibromofluoromethane (Surr)	*85*		*68 - 121*	*07/13/17 10:30*	*07/14/17 17:00*	*1*
1,2-Dichloroethane-d4 (Surr)	*78*		*52 - 124*	*07/13/17 10:30*	*07/14/17 17:00*	*1*
Toluene-d8 (Surr)	*112*		*72 - 127*	*07/13/17 10:30*	*07/14/17 17:00*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**7.9**		0.1	0.1	%			07/12/17 16:42	1
Percent Solids	**92.1**		0.1	0.1	%			07/12/17 16:42	1

Client Sample ID: W3, S5, C 71117 — Lab Sample ID: 180-68096-36

Date Collected: 07/11/17 15:25 — **Matrix: Solid**
Date Received: 07/12/17 09:10 — **Percent Solids: 92.6**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.072	0.024	mg/Kg	☼	07/13/17 03:37	07/17/17 13:11	10
Acenaphthylene	**0.19**		0.072	0.024	mg/Kg	☼	07/13/17 03:37	07/17/17 13:11	10
Anthracene	**0.26**		0.072	0.027	mg/Kg	☼	07/13/17 03:37	07/17/17 13:11	10
Benzo[a]anthracene	**0.96**		0.072	0.029	mg/Kg	☼	07/13/17 03:37	07/17/17 13:11	10
Benzo[a]pyrene	**0.90**		0.072	0.030	mg/Kg	☼	07/13/17 03:37	07/17/17 13:11	10
Benzo[b]fluoranthene	**1.1**		0.072	0.031	mg/Kg	☼	07/13/17 03:37	07/17/17 13:11	10

Client Sample ID: W3, S5, C 71117 **Lab Sample ID: 180-68096-36**
Date Collected: 07/11/17 15:25 **Matrix: Solid**
Date Received: 07/12/17 09:10 **Percent Solids: 92.6**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	**0.97**		0.072	0.031	mg/Kg	☼	07/13/17 03:37	07/17/17 13:11	10
Benzo[k]fluoranthene	**0.47**		0.072	0.025	mg/Kg	☼	07/13/17 03:37	07/17/17 13:11	10
Chrysene	**0.88**		0.072	0.028	mg/Kg	☼	07/13/17 03:37	07/17/17 13:11	10
Dibenz(a,h)anthracene	**0.24**		0.072	0.030	mg/Kg	☼	07/13/17 03:37	07/17/17 13:11	10
Dibenzofuran	**0.072**	**J**	0.36	0.029	mg/Kg	☼	07/13/17 03:37	07/17/17 13:11	10
2,4-Dinitrotoluene	ND		0.36	0.048	mg/Kg	☼	07/13/17 03:37	07/17/17 13:11	10
1,4-Dioxane	ND		0.72	0.054	mg/Kg	☼	07/13/17 03:37	07/17/17 13:11	10
Fluoranthene	**1.4**		0.072	0.028	mg/Kg	☼	07/13/17 03:37	07/17/17 13:11	10
Fluorene	**0.042**	**J**	0.072	0.026	mg/Kg	☼	07/13/17 03:37	07/17/17 13:11	10
Hexachlorobenzene	ND		0.072	0.029	mg/Kg	☼	07/13/17 03:37	07/17/17 13:11	10
Hexachlorobutadiene	ND		0.072	0.023	mg/Kg	☼	07/13/17 03:37	07/17/17 13:11	10
Hexachloroethane	ND		0.36	0.026	mg/Kg	☼	07/13/17 03:37	07/17/17 13:11	10
Indeno[1,2,3-cd]pyrene	**0.86**		0.072	0.028	mg/Kg	☼	07/13/17 03:37	07/17/17 13:11	10
2-Methylphenol	ND		0.36	0.032	mg/Kg	☼	07/13/17 03:37	07/17/17 13:11	10
Methylphenol, 3 & 4	ND		0.36	0.032	mg/Kg	☼	07/13/17 03:37	07/17/17 13:11	10
Naphthalene	**0.23**		0.072	0.026	mg/Kg	☼	07/13/17 03:37	07/17/17 13:11	10
Nitrobenzene	ND		0.72	0.028	mg/Kg	☼	07/13/17 03:37	07/17/17 13:11	10
Pentachlorophenol	ND		1.8	0.68	mg/Kg	☼	07/13/17 03:37	07/17/17 13:11	10
Phenanthrene	**0.82**		0.072	0.030	mg/Kg	☼	07/13/17 03:37	07/17/17 13:11	10
Phenol	ND		0.36	0.049	mg/Kg	☼	07/13/17 03:37	07/17/17 13:11	10
Pyrene	**1.5**		0.072	0.032	mg/Kg	☼	07/13/17 03:37	07/17/17 13:11	10
Pyridine	ND		0.36	0.034	mg/Kg	☼	07/13/17 03:37	07/17/17 13:11	10
2,4,5-Trichlorophenol	ND		0.36	0.034	mg/Kg	☼	07/13/17 03:37	07/17/17 13:11	10
2,4,6-Trichlorophenol	ND		0.36	0.032	mg/Kg	☼	07/13/17 03:37	07/17/17 13:11	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*57*		*42 - 100*	*07/13/17 03:37*	*07/17/17 13:11*	*10*
2-Fluorophenol (Surr)	*49*		*21 - 107*	*07/13/17 03:37*	*07/17/17 13:11*	*10*
Nitrobenzene-d5 (Surr)	*63*		*35 - 109*	*07/13/17 03:37*	*07/17/17 13:11*	*10*
Phenol-d5 (Surr)	*48*		*29 - 105*	*07/13/17 03:37*	*07/17/17 13:11*	*10*
Terphenyl-d14 (Surr)	*68*		*36 - 113*	*07/13/17 03:37*	*07/17/17 13:11*	*10*
2,4,6-Tribromophenol (Surr)	*52*		*20 - 134*	*07/13/17 03:37*	*07/17/17 13:11*	*10*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.018	0.0093	mg/Kg	☼	07/13/17 03:34	07/14/17 18:49	1
PCB-1221	ND		0.018	0.0091	mg/Kg	☼	07/13/17 03:34	07/14/17 18:49	1
PCB-1232	ND		0.018	0.0069	mg/Kg	☼	07/13/17 03:34	07/14/17 18:49	1
PCB-1242	ND		0.018	0.014	mg/Kg	☼	07/13/17 03:34	07/14/17 18:49	1
PCB-1248	**0.93**		0.018	0.0084	mg/Kg	☼	07/13/17 03:34	07/14/17 18:49	1
PCB-1254	**0.61**		0.018	0.0077	mg/Kg	☼	07/13/17 03:34	07/14/17 18:49	1
PCB-1260	**0.18**		0.018	0.012	mg/Kg	☼	07/13/17 03:34	07/14/17 18:49	1
PCB-1262	ND		0.018	0.013	mg/Kg	☼	07/13/17 03:34	07/14/17 18:49	1
PCB-1268	ND		0.018	0.0053	mg/Kg	☼	07/13/17 03:34	07/14/17 18:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*73*		*23 - 150*	*07/13/17 03:34*	*07/14/17 18:49*	*1*
DCB Decachlorobiphenyl (Surr)	*84*		*23 - 150*	*07/13/17 03:34*	*07/14/17 18:49*	*1*
Tetrachloro-m-xylene (Surr)	*81*		*27 - 138*	*07/13/17 03:34*	*07/14/17 18:49*	*1*
Tetrachloro-m-xylene (Surr)	*73*		*27 - 138*	*07/13/17 03:34*	*07/14/17 18:49*	*1*

Client Sample ID: W3, S5, C 71117

Lab Sample ID: 180-68096-36

Date Collected: 07/11/17 15:25
Matrix: Solid
Date Received: 07/12/17 09:10
Percent Solids: 92.6

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.2		1.0	0.46	mg/Kg	☼	07/13/17 09:05	07/14/17 14:19	1
Barium	87		21	5.6	mg/Kg	☼	07/13/17 09:05	07/14/17 14:19	1
Beryllium	0.29	J	0.42	0.11	mg/Kg	☼	07/13/17 09:05	07/14/17 14:19	1
Cadmium	0.19	J	0.52	0.12	mg/Kg	☼	07/13/17 09:05	07/14/17 14:19	1
Chromium	7.8		0.52	0.14	mg/Kg	☼	07/13/17 09:05	07/14/17 14:19	1
Copper	30		2.6	0.81	mg/Kg	☼	07/13/17 09:05	07/14/17 14:19	1
Lead	46		1.0	0.34	mg/Kg	☼	07/13/17 09:05	07/14/17 14:19	1
Manganese	290		1.6	0.43	mg/Kg	☼	07/13/17 09:05	07/14/17 14:19	1
Nickel	16		4.2	0.94	mg/Kg	☼	07/13/17 09:05	07/14/17 14:19	1
Selenium	ND		1.0	0.42	mg/Kg	☼	07/13/17 09:05	07/14/17 14:19	1
Silver	ND		0.52	0.17	mg/Kg	☼	07/13/17 09:05	07/14/17 14:19	1
Zinc	76		2.1	1.1	mg/Kg	☼	07/13/17 09:05	07/14/17 14:19	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.49		0.035	0.0078	mg/Kg	☼	07/14/17 11:17	07/17/17 09:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	7.4		0.1	0.1	%			07/12/17 16:42	1
Percent Solids	92.6		0.1	0.1	%			07/12/17 16:42	1
Cyanide, Total	ND		0.54	0.17	mg/Kg	☼	07/13/17 12:02	07/13/17 16:22	1

Client Sample ID: TRIP BLANK 1

Lab Sample ID: 180-68096-37

Date Collected: 07/11/17 00:00
Matrix: Water
Date Received: 07/12/17 09:10

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	3.5	J	5.0	3.1	ug/L			07/17/17 08:58	1
Benzene	ND		1.0	0.18	ug/L			07/17/17 08:58	1
2-Butanone (MEK)	ND		5.0	2.6	ug/L			07/17/17 08:58	1
Carbon tetrachloride	ND		1.0	0.56	ug/L			07/17/17 08:58	1
Chlorobenzene	ND		1.0	0.15	ug/L			07/17/17 08:58	1
Chloroform	ND		1.0	0.27	ug/L			07/17/17 08:58	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			07/17/17 08:58	1
1,2-Dichlorobenzene	ND		1.0	0.23	ug/L			07/17/17 08:58	1
1,3-Dichlorobenzene	ND		1.0	0.21	ug/L			07/17/17 08:58	1
1,4-Dichlorobenzene	ND		1.0	0.24	ug/L			07/17/17 08:58	1
1,1-Dichloroethane	ND		1.0	0.34	ug/L			07/17/17 08:58	1
1,2-Dichloroethane	ND		1.0	0.24	ug/L			07/17/17 08:58	1
1,1-Dichloroethene	ND		1.0	0.32	ug/L			07/17/17 08:58	1
Ethylbenzene	ND		1.0	0.25	ug/L			07/17/17 08:58	1
Methylene Chloride	ND		1.0	0.94	ug/L			07/17/17 08:58	1
Methyl tert-butyl ether	ND		1.0	0.20	ug/L			07/17/17 08:58	1
n-Butylbenzene	ND	*	1.0	0.22	ug/L			07/17/17 08:58	1
N-Propylbenzene	ND		1.0	0.20	ug/L			07/17/17 08:58	1
sec-Butylbenzene	ND		1.0	0.22	ug/L			07/17/17 08:58	1
tert-Butylbenzene	ND		1.0	0.17	ug/L			07/17/17 08:58	1
Tetrachloroethene	ND		1.0	0.24	ug/L			07/17/17 08:58	1

Client Sample ID: TRIP BLANK 1

Lab Sample ID: 180-68096-37
Matrix: Water
Date Collected: 07/11/17 00:00
Date Received: 07/12/17 09:10

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		1.0	0.16	ug/L			07/17/17 08:58	1
trans-1,2-Dichloroethene	ND		1.0	0.20	ug/L			07/17/17 08:58	1
1,1,1-Trichloroethane	ND		1.0	0.27	ug/L			07/17/17 08:58	1
Trichloroethene	ND		1.0	0.20	ug/L			07/17/17 08:58	1
1,2,4-Trimethylbenzene	ND		1.0	0.18	ug/L			07/17/17 08:58	1
1,3,5-Trimethylbenzene	ND		1.0	0.17	ug/L			07/17/17 08:58	1
Vinyl chloride	ND		1.0	0.17	ug/L			07/17/17 08:58	1
Xylenes, Total	ND		2.0	0.27	ug/L			07/17/17 08:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*72 - 120*		*07/17/17 08:58*	*1*
Dibromofluoromethane (Surr)	*101*		*77 - 127*		*07/17/17 08:58*	*1*
1,2-Dichloroethane-d4 (Surr)	*88*		*72 - 134*		*07/17/17 08:58*	*1*
Toluene-d8 (Surr)	*84*		*80 - 120*		*07/17/17 08:58*	*1*

Client Sample ID: TRIP BLANK 2

Lab Sample ID: 180-68096-38
Matrix: Water
Date Collected: 07/11/17 00:00
Date Received: 07/12/17 09:10

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		5.0	3.1	ug/L			07/17/17 09:21	1
Benzene	ND		1.0	0.18	ug/L			07/17/17 09:21	1
2-Butanone (MEK)	ND		5.0	2.6	ug/L			07/17/17 09:21	1
Carbon tetrachloride	ND		1.0	0.56	ug/L			07/17/17 09:21	1
Chlorobenzene	ND		1.0	0.15	ug/L			07/17/17 09:21	1
Chloroform	ND		1.0	0.27	ug/L			07/17/17 09:21	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			07/17/17 09:21	1
1,2-Dichlorobenzene	ND		1.0	0.23	ug/L			07/17/17 09:21	1
1,3-Dichlorobenzene	ND		1.0	0.21	ug/L			07/17/17 09:21	1
1,4-Dichlorobenzene	ND		1.0	0.24	ug/L			07/17/17 09:21	1
1,1-Dichloroethane	ND		1.0	0.34	ug/L			07/17/17 09:21	1
1,2-Dichloroethane	ND		1.0	0.24	ug/L			07/17/17 09:21	1
1,1-Dichloroethene	ND		1.0	0.32	ug/L			07/17/17 09:21	1
Ethylbenzene	ND		1.0	0.25	ug/L			07/17/17 09:21	1
Methylene Chloride	ND		1.0	0.94	ug/L			07/17/17 09:21	1
Methyl tert-butyl ether	ND		1.0	0.20	ug/L			07/17/17 09:21	1
n-Butylbenzene	ND	*	1.0	0.22	ug/L			07/17/17 09:21	1
N-Propylbenzene	ND		1.0	0.20	ug/L			07/17/17 09:21	1
sec-Butylbenzene	ND		1.0	0.22	ug/L			07/17/17 09:21	1
tert-Butylbenzene	ND		1.0	0.17	ug/L			07/17/17 09:21	1
Tetrachloroethene	ND		1.0	0.24	ug/L			07/17/17 09:21	1
Toluene	ND		1.0	0.16	ug/L			07/17/17 09:21	1
trans-1,2-Dichloroethene	ND		1.0	0.20	ug/L			07/17/17 09:21	1
1,1,1-Trichloroethane	ND		1.0	0.27	ug/L			07/17/17 09:21	1
Trichloroethene	ND		1.0	0.20	ug/L			07/17/17 09:21	1
1,2,4-Trimethylbenzene	ND		1.0	0.18	ug/L			07/17/17 09:21	1
1,3,5-Trimethylbenzene	ND		1.0	0.17	ug/L			07/17/17 09:21	1
Vinyl chloride	ND		1.0	0.17	ug/L			07/17/17 09:21	1
Xylenes, Total	ND		2.0	0.27	ug/L			07/17/17 09:21	1

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68096-1

Client Sample ID: TRIP BLANK 2
Date Collected: 07/11/17 00:00
Date Received: 07/12/17 09:10

Lab Sample ID: 180-68096-38
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		72 - 120		07/17/17 09:21	1
Dibromofluoromethane (Surr)	100		77 - 127		07/17/17 09:21	1
1,2-Dichloroethane-d4 (Surr)	87		72 - 134		07/17/17 09:21	1
Toluene-d8 (Surr)	86		80 - 120		07/17/17 09:21	1

Method: 8260C - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 180-217200/7
Matrix: Water
Analysis Batch: 217200

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		5.0	3.1	ug/L			07/17/17 07:13	1
Benzene	ND		1.0	0.18	ug/L			07/17/17 07:13	1
2-Butanone (MEK)	ND		5.0	2.6	ug/L			07/17/17 07:13	1
Carbon tetrachloride	ND		1.0	0.56	ug/L			07/17/17 07:13	1
Chlorobenzene	ND		1.0	0.15	ug/L			07/17/17 07:13	1
Chloroform	ND		1.0	0.27	ug/L			07/17/17 07:13	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			07/17/17 07:13	1
1,2-Dichlorobenzene	ND		1.0	0.23	ug/L			07/17/17 07:13	1
1,3-Dichlorobenzene	ND		1.0	0.21	ug/L			07/17/17 07:13	1
1,4-Dichlorobenzene	ND		1.0	0.24	ug/L			07/17/17 07:13	1
1,1-Dichloroethane	ND		1.0	0.34	ug/L			07/17/17 07:13	1
1,2-Dichloroethane	ND		1.0	0.24	ug/L			07/17/17 07:13	1
1,1-Dichloroethene	ND		1.0	0.32	ug/L			07/17/17 07:13	1
Ethylbenzene	ND		1.0	0.25	ug/L			07/17/17 07:13	1
Methylene Chloride	ND		1.0	0.94	ug/L			07/17/17 07:13	1
Methyl tert-butyl ether	ND		1.0	0.20	ug/L			07/17/17 07:13	1
n-Butylbenzene	ND		1.0	0.22	ug/L			07/17/17 07:13	1
N-Propylbenzene	ND		1.0	0.20	ug/L			07/17/17 07:13	1
sec-Butylbenzene	ND		1.0	0.22	ug/L			07/17/17 07:13	1
tert-Butylbenzene	ND		1.0	0.17	ug/L			07/17/17 07:13	1
Tetrachloroethene	ND		1.0	0.24	ug/L			07/17/17 07:13	1
Toluene	ND		1.0	0.16	ug/L			07/17/17 07:13	1
trans-1,2-Dichloroethene	ND		1.0	0.20	ug/L			07/17/17 07:13	1
1,1,1-Trichloroethane	ND		1.0	0.27	ug/L			07/17/17 07:13	1
Trichloroethene	ND		1.0	0.20	ug/L			07/17/17 07:13	1
1,2,4-Trimethylbenzene	ND		1.0	0.18	ug/L			07/17/17 07:13	1
1,3,5-Trimethylbenzene	ND		1.0	0.17	ug/L			07/17/17 07:13	1
Vinyl chloride	ND		1.0	0.17	ug/L			07/17/17 07:13	1
Xylenes, Total	ND		2.0	0.27	ug/L			07/17/17 07:13	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*72 - 120*		*07/17/17 07:13*	*1*
Dibromofluoromethane (Surr)	*97*		*77 - 127*		*07/17/17 07:13*	*1*
1,2-Dichloroethane-d4 (Surr)	*85*		*72 - 134*		*07/17/17 07:13*	*1*
Toluene-d8 (Surr)	*85*		*80 - 120*		*07/17/17 07:13*	*1*

Lab Sample ID: LCS 180-217200/4
Matrix: Water
Analysis Batch: 217200

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	20.0	15.6		ug/L		78	10 - 150
Benzene	10.0	11.1		ug/L		111	80 - 121
2-Butanone (MEK)	20.0	16.7		ug/L		84	41 - 150
Carbon tetrachloride	10.0	11.6		ug/L		116	59 - 145
Chlorobenzene	10.0	10.7		ug/L		107	80 - 120
Chloroform	10.0	10.2		ug/L		102	78 - 122
cis-1,2-Dichloroethene	10.0	10.7		ug/L		107	80 - 120

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 180-217200/4
Matrix: Water
Analysis Batch: 217200

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichlorobenzene	10.0	10.6		ug/L		106	80 - 120
1,3-Dichlorobenzene	10.0	10.5		ug/L		105	80 - 120
1,4-Dichlorobenzene	10.0	10.6		ug/L		106	80 - 120
1,1-Dichloroethane	10.0	10.1		ug/L		101	76 - 126
1,2-Dichloroethane	10.0	8.79		ug/L		88	72 - 126
1,1-Dichloroethene	10.0	12.0		ug/L		120	71 - 122
Ethylbenzene	10.0	11.3		ug/L		113	80 - 123
Methylene Chloride	10.0	10.1		ug/L		101	71 - 129
Methyl tert-butyl ether	10.0	9.36		ug/L		94	68 - 124
n-Butylbenzene	10.0	12.1	*	ug/L		121	75 - 120
N-Propylbenzene	10.0	10.8		ug/L		108	78 - 121
sec-Butylbenzene	10.0	11.7		ug/L		117	80 - 121
tert-Butylbenzene	10.0	11.2		ug/L		112	79 - 120
Tetrachloroethene	10.0	12.0		ug/L		120	80 - 122
Toluene	10.0	10.9		ug/L		109	80 - 125
trans-1,2-Dichloroethene	10.0	11.6		ug/L		116	80 - 121
1,1,1-Trichloroethane	10.0	10.8		ug/L		108	57 - 128
Trichloroethene	10.0	11.0		ug/L		110	79 - 120
1,2,4-Trimethylbenzene	10.0	11.2		ug/L		112	80 - 120
1,3,5-Trimethylbenzene	10.0	11.2		ug/L		112	80 - 122
Vinyl chloride	10.0	10.3		ug/L		103	61 - 138
Xylenes, Total	20.0	22.4		ug/L		112	80 - 123

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*72 - 120*
Dibromofluoromethane (Surr)	*104*		*77 - 127*
1,2-Dichloroethane-d4 (Surr)	*93*		*72 - 134*
Toluene-d8 (Surr)	*107*		*80 - 120*

Lab Sample ID: LCSD 180-217200/5
Matrix: Water
Analysis Batch: 217200

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	20.0	13.8		ug/L		69	10 - 150	12	35
Benzene	10.0	10.3		ug/L		103	80 - 121	7	15
2-Butanone (MEK)	20.0	15.1		ug/L		76	41 - 150	10	35
Carbon tetrachloride	10.0	10.2		ug/L		102	59 - 145	13	19
Chlorobenzene	10.0	9.21		ug/L		92	80 - 120	15	15
Chloroform	10.0	9.53		ug/L		95	78 - 122	7	15
cis-1,2-Dichloroethene	10.0	9.89		ug/L		99	80 - 120	8	17
1,2-Dichlorobenzene	10.0	9.73		ug/L		97	80 - 120	9	15
1,3-Dichlorobenzene	10.0	9.69		ug/L		97	80 - 120	8	15
1,4-Dichlorobenzene	10.0	9.55		ug/L		96	80 - 120	10	15
1,1-Dichloroethane	10.0	9.49		ug/L		95	76 - 126	7	22
1,2-Dichloroethane	10.0	8.35		ug/L		83	72 - 126	5	15
1,1-Dichloroethene	10.0	10.8		ug/L		108	71 - 122	10	18
Ethylbenzene	10.0	9.77		ug/L		98	80 - 123	14	15

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 180-217200/5
Matrix: Water
Analysis Batch: 217200

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methylene Chloride			10.0	9.43		ug/L		94	71 - 129	7	19
Methyl tert-butyl ether			10.0	9.04		ug/L		90	68 - 124	4	25
n-Butylbenzene			10.0	10.8		ug/L		108	75 - 120	12	15
N-Propylbenzene			10.0	9.52		ug/L		95	78 - 121	12	15
sec-Butylbenzene			10.0	10.5		ug/L		105	80 - 121	11	15
tert-Butylbenzene			10.0	10.2		ug/L		102	79 - 120	10	15
Tetrachloroethene			10.0	10.4		ug/L		104	80 - 122	14	15
Toluene			10.0	9.46		ug/L		95	80 - 125	14	15
trans-1,2-Dichloroethene			10.0	10.1		ug/L		101	80 - 121	13	18
1,1,1-Trichloroethane			10.0	9.49		ug/L		95	57 - 128	13	19
Trichloroethene			10.0	10.1		ug/L		101	79 - 120	9	15
1,2,4-Trimethylbenzene			10.0	10.2		ug/L		102	80 - 120	10	15
1,3,5-Trimethylbenzene			10.0	10.1		ug/L		101	80 - 122	10	15
Vinyl chloride			10.0	9.05		ug/L		91	61 - 138	12	16
Xylenes, Total			20.0	19.6		ug/L		98	80 - 123	13	15

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*72 - 120*
Dibromofluoromethane (Surr)	*103*		*77 - 127*
1,2-Dichloroethane-d4 (Surr)	*93*		*72 - 134*
Toluene-d8 (Surr)	*99*		*80 - 120*

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 180-216893/9
Matrix: Solid
Analysis Batch: 216893

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.020	0.0032	mg/Kg			07/13/17 08:59	1
Benzene	ND		0.0050	0.0020	mg/Kg			07/13/17 08:59	1
2-Butanone (MEK)	ND		0.0050	0.0029	mg/Kg			07/13/17 08:59	1
Carbon tetrachloride	ND		0.0050	0.0033	mg/Kg			07/13/17 08:59	1
Chlorobenzene	ND		0.0050	0.0016	mg/Kg			07/13/17 08:59	1
Chloroform	ND		0.0050	0.0021	mg/Kg			07/13/17 08:59	1
cis-1,2-Dichloroethene	ND		0.0050	0.0016	mg/Kg			07/13/17 08:59	1
1,2-Dichlorobenzene	ND		0.0050	0.0040	mg/Kg			07/13/17 08:59	1
1,3-Dichlorobenzene	ND		0.0050	0.0016	mg/Kg			07/13/17 08:59	1
1,4-Dichlorobenzene	ND		0.0050	0.0010	mg/Kg			07/13/17 08:59	1
1,1-Dichloroethane	ND		0.0050	0.0018	mg/Kg			07/13/17 08:59	1
1,2-Dichloroethane	ND		0.0050	0.0015	mg/Kg			07/13/17 08:59	1
1,1-Dichloroethene	ND		0.0050	0.0029	mg/Kg			07/13/17 08:59	1
Ethylbenzene	ND		0.0050	0.0022	mg/Kg			07/13/17 08:59	1
Methylene Chloride	ND		0.0050	0.0024	mg/Kg			07/13/17 08:59	1
Methyl tert-butyl ether	ND		0.0050	0.0037	mg/Kg			07/13/17 08:59	1
n-Butylbenzene	ND		0.0050	0.0038	mg/Kg			07/13/17 08:59	1
N-Propylbenzene	ND		0.0050	0.0021	mg/Kg			07/13/17 08:59	1
sec-Butylbenzene	ND		0.0050	0.0024	mg/Kg			07/13/17 08:59	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 180-216893/9
Matrix: Solid
Analysis Batch: 216893

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	ND		0.0050	0.0018	mg/Kg			07/13/17 08:59	1
Tetrachloroethene	ND		0.0050	0.0020	mg/Kg			07/13/17 08:59	1
Toluene	ND		0.0050	0.0017	mg/Kg			07/13/17 08:59	1
trans-1,2-Dichloroethene	ND		0.0050	0.0025	mg/Kg			07/13/17 08:59	1
1,1,1-Trichloroethane	ND		0.0050	0.0025	mg/Kg			07/13/17 08:59	1
Trichloroethene	ND		0.0050	0.0015	mg/Kg			07/13/17 08:59	1
1,2,4-Trimethylbenzene	ND		0.0050	0.0013	mg/Kg			07/13/17 08:59	1
1,3,5-Trimethylbenzene	ND		0.0050	0.0017	mg/Kg			07/13/17 08:59	1
Vinyl chloride	ND		0.0050	0.0037	mg/Kg			07/13/17 08:59	1
Xylenes, Total	ND		0.010	0.0043	mg/Kg			07/13/17 08:59	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*63 - 120*		*07/13/17 08:59*	*1*
Dibromofluoromethane (Surr)	*91*		*68 - 121*		*07/13/17 08:59*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*52 - 124*		*07/13/17 08:59*	*1*
Toluene-d8 (Surr)	*105*		*72 - 127*		*07/13/17 08:59*	*1*

Lab Sample ID: LCS 180-216893/4
Matrix: Solid
Analysis Batch: 216893

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0400	0.0366		mg/Kg		92	20 - 150
Benzene	0.0400	0.0367		mg/Kg		92	77 - 120
2-Butanone (MEK)	0.0400	0.0345		mg/Kg		86	35 - 149
Carbon tetrachloride	0.0400	0.0324		mg/Kg		81	69 - 122
Chlorobenzene	0.0400	0.0352		mg/Kg		88	79 - 120
Chloroform	0.0400	0.0354		mg/Kg		89	72 - 120
cis-1,2-Dichloroethene	0.0400	0.0350		mg/Kg		87	80 - 118
1,2-Dichlorobenzene	0.0400	0.0353		mg/Kg		88	71 - 124
1,3-Dichlorobenzene	0.0400	0.0353		mg/Kg		88	75 - 118
1,4-Dichlorobenzene	0.0400	0.0353		mg/Kg		88	77 - 116
1,1-Dichloroethane	0.0400	0.0382		mg/Kg		95	66 - 124
1,2-Dichloroethane	0.0400	0.0351		mg/Kg		88	61 - 127
1,1-Dichloroethene	0.0400	0.0344		mg/Kg		86	59 - 129
Ethylbenzene	0.0400	0.0349		mg/Kg		87	78 - 125
Methylene Chloride	0.0400	0.0330		mg/Kg		83	58 - 127
Methyl tert-butyl ether	0.0400	0.0343		mg/Kg		86	48 - 132
n-Butylbenzene	0.0400	0.0387		mg/Kg		97	59 - 145
N-Propylbenzene	0.0400	0.0354		mg/Kg		89	80 - 120
sec-Butylbenzene	0.0400	0.0382		mg/Kg		96	70 - 130
tert-Butylbenzene	0.0400	0.0365		mg/Kg		91	74 - 133
Tetrachloroethene	0.0400	0.0357		mg/Kg		89	78 - 129
Toluene	0.0400	0.0377		mg/Kg		94	78 - 124
trans-1,2-Dichloroethene	0.0400	0.0356		mg/Kg		89	77 - 121
1,1,1-Trichloroethane	0.0400	0.0358		mg/Kg		90	67 - 126
Trichloroethene	0.0400	0.0352		mg/Kg		88	76 - 119
1,2,4-Trimethylbenzene	0.0400	0.0371		mg/Kg		93	80 - 121

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 180-216893/4
Matrix: Solid
Analysis Batch: 216893

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,3,5-Trimethylbenzene	0.0400	0.0373		mg/Kg		93	68 - 133
Vinyl chloride	0.0400	0.0410		mg/Kg		103	63 - 124
Xylenes, Total	0.0800	0.0698		mg/Kg		87	83 - 126

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*91*		*63 - 120*
Dibromofluoromethane (Surr)	*88*		*68 - 121*
1,2-Dichloroethane-d4 (Surr)	*91*		*52 - 124*
Toluene-d8 (Surr)	*97*		*72 - 127*

Lab Sample ID: 180-68096-4 MS
Matrix: Solid
Analysis Batch: 216893

Client Sample ID: W2, S1, A 71117
Prep Type: Total/NA
Prep Batch: 216904

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	ND		0.0316	0.0199		mg/Kg	☼	63	20 - 150
Benzene	ND		0.0316	0.0307		mg/Kg	☼	97	77 - 120
2-Butanone (MEK)	ND		0.0316	0.0199		mg/Kg	☼	63	35 - 149
Carbon tetrachloride	ND		0.0316	0.0290		mg/Kg	☼	92	69 - 122
Chlorobenzene	ND		0.0316	0.0294		mg/Kg	☼	93	79 - 120
Chloroform	ND		0.0316	0.0295		mg/Kg	☼	93	72 - 120
cis-1,2-Dichloroethene	ND		0.0316	0.0283		mg/Kg	☼	90	80 - 118
1,2-Dichlorobenzene	ND		0.0316	0.0293		mg/Kg	☼	93	71 - 124
1,3-Dichlorobenzene	ND		0.0316	0.0305		mg/Kg	☼	97	75 - 118
1,4-Dichlorobenzene	ND		0.0316	0.0295		mg/Kg	☼	93	77 - 116
1,1-Dichloroethane	ND		0.0316	0.0332		mg/Kg	☼	105	66 - 124
1,2-Dichloroethane	ND		0.0316	0.0251		mg/Kg	☼	79	61 - 127
1,1-Dichloroethene	ND		0.0316	0.0305		mg/Kg	☼	97	59 - 129
Ethylbenzene	ND		0.0316	0.0305		mg/Kg	☼	97	78 - 125
Methylene Chloride	ND		0.0316	0.0264		mg/Kg	☼	83	58 - 127
Methyl tert-butyl ether	ND		0.0316	0.0232		mg/Kg	☼	73	48 - 132
n-Butylbenzene	ND		0.0316	0.0323		mg/Kg	☼	102	59 - 145
N-Propylbenzene	ND		0.0316	0.0352		mg/Kg	☼	111	80 - 120
sec-Butylbenzene	ND		0.0316	0.0353		mg/Kg	☼	112	70 - 130
tert-Butylbenzene	ND		0.0316	0.0365		mg/Kg	☼	116	74 - 133
Tetrachloroethene	ND		0.0316	0.0314		mg/Kg	☼	100	78 - 129
Toluene	ND		0.0316	0.0333		mg/Kg	☼	106	78 - 124
trans-1,2-Dichloroethene	ND		0.0316	0.0293		mg/Kg	☼	93	77 - 121
1,1,1-Trichloroethane	ND		0.0316	0.0314		mg/Kg	☼	99	67 - 126
Trichloroethene	ND		0.0316	0.0287		mg/Kg	☼	91	76 - 119
1,2,4-Trimethylbenzene	ND		0.0316	0.0361		mg/Kg	☼	114	80 - 121
1,3,5-Trimethylbenzene	ND		0.0316	0.0368		mg/Kg	☼	117	68 - 133
Vinyl chloride	ND		0.0316	0.0355		mg/Kg	☼	112	63 - 124
Xylenes, Total	ND		0.0632	0.0603		mg/Kg	☼	95	83 - 126

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*90*		*63 - 120*

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 180-68096-4 MS
Matrix: Solid
Analysis Batch: 216893

Client Sample ID: W2, S1, A 71117
Prep Type: Total/NA
Prep Batch: 216904

Surrogate	MS %Recovery	MS Qualifier	Limits
Dibromofluoromethane (Surr)	*94*		*68 - 121*
1,2-Dichloroethane-d4 (Surr)	*81*		*52 - 124*
Toluene-d8 (Surr)	*112*		*72 - 127*

Lab Sample ID: 180-68096-4 MSD
Matrix: Solid
Analysis Batch: 216893

Client Sample ID: W2, S1, A 71117
Prep Type: Total/NA
Prep Batch: 216904

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	ND		0.0338	0.0218		mg/Kg	☼	65	20 - 150	9	40
Benzene	ND		0.0338	0.0354		mg/Kg	☼	105	77 - 120	14	20
2-Butanone (MEK)	ND		0.0338	0.0211		mg/Kg	☼	62	35 - 149	6	36
Carbon tetrachloride	ND		0.0338	0.0343		mg/Kg	☼	102	69 - 122	17	22
Chlorobenzene	ND		0.0338	0.0342		mg/Kg	☼	101	79 - 120	15	20
Chloroform	ND		0.0338	0.0340		mg/Kg	☼	101	72 - 120	14	25
cis-1,2-Dichloroethene	ND		0.0338	0.0327		mg/Kg	☼	97	80 - 118	14	20
1,2-Dichlorobenzene	ND		0.0338	0.0335		mg/Kg	☼	99	71 - 124	13	22
1,3-Dichlorobenzene	ND		0.0338	0.0351		mg/Kg	☼	104	75 - 118	14	20
1,4-Dichlorobenzene	ND		0.0338	0.0340		mg/Kg	☼	101	77 - 116	14	20
1,1-Dichloroethane	ND		0.0338	0.0382		mg/Kg	☼	113	66 - 124	14	23
1,2-Dichloroethane	ND		0.0338	0.0283		mg/Kg	☼	84	61 - 127	12	23
1,1-Dichloroethene	ND		0.0338	0.0351		mg/Kg	☼	104	59 - 129	14	25
Ethylbenzene	ND		0.0338	0.0354		mg/Kg	☼	105	78 - 125	15	21
Methylene Chloride	ND		0.0338	0.0302		mg/Kg	☼	89	58 - 127	13	28
Methyl tert-butyl ether	ND		0.0338	0.0261		mg/Kg	☼	77	48 - 132	12	36
n-Butylbenzene	ND		0.0338	0.0379		mg/Kg	☼	112	59 - 145	16	24
N-Propylbenzene	ND		0.0338	0.0402		mg/Kg	☼	119	80 - 120	13	20
sec-Butylbenzene	ND		0.0338	0.0397		mg/Kg	☼	118	70 - 130	12	21
tert-Butylbenzene	ND		0.0338	0.0409		mg/Kg	☼	121	74 - 133	11	22
Tetrachloroethene	ND		0.0338	0.0369		mg/Kg	☼	109	78 - 129	16	20
Toluene	ND		0.0338	0.0381		mg/Kg	☼	113	78 - 124	13	21
trans-1,2-Dichloroethene	ND		0.0338	0.0341		mg/Kg	☼	101	77 - 121	15	20
1,1,1-Trichloroethane	ND		0.0338	0.0369		mg/Kg	☼	109	67 - 126	16	31
Trichloroethene	ND		0.0338	0.0341		mg/Kg	☼	101	76 - 119	17	21
1,2,4-Trimethylbenzene	ND		0.0338	0.0400		mg/Kg	☼	118	80 - 121	10	20
1,3,5-Trimethylbenzene	ND		0.0338	0.0410		mg/Kg	☼	122	68 - 133	11	21
Vinyl chloride	ND		0.0338	0.0410		mg/Kg	☼	122	63 - 124	14	27
Xylenes, Total	ND		0.0675	0.0706		mg/Kg	☼	105	83 - 126	16	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	*93*		*63 - 120*
Dibromofluoromethane (Surr)	*93*		*68 - 121*
1,2-Dichloroethane-d4 (Surr)	*81*		*52 - 124*
Toluene-d8 (Surr)	*111*		*72 - 127*

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 180-217056/9
Matrix: Solid
Analysis Batch: 217056

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.020	0.0032	mg/Kg			07/14/17 10:13	1
Benzene	ND		0.0050	0.0020	mg/Kg			07/14/17 10:13	1
2-Butanone (MEK)	ND		0.0050	0.0029	mg/Kg			07/14/17 10:13	1
Carbon tetrachloride	ND		0.0050	0.0033	mg/Kg			07/14/17 10:13	1
Chlorobenzene	ND		0.0050	0.0016	mg/Kg			07/14/17 10:13	1
Chloroform	ND		0.0050	0.0021	mg/Kg			07/14/17 10:13	1
cis-1,2-Dichloroethene	ND		0.0050	0.0016	mg/Kg			07/14/17 10:13	1
1,2-Dichlorobenzene	ND		0.0050	0.0040	mg/Kg			07/14/17 10:13	1
1,3-Dichlorobenzene	ND		0.0050	0.0016	mg/Kg			07/14/17 10:13	1
1,4-Dichlorobenzene	ND		0.0050	0.0010	mg/Kg			07/14/17 10:13	1
1,1-Dichloroethane	ND		0.0050	0.0018	mg/Kg			07/14/17 10:13	1
1,2-Dichloroethane	ND		0.0050	0.0015	mg/Kg			07/14/17 10:13	1
1,1-Dichloroethene	ND		0.0050	0.0029	mg/Kg			07/14/17 10:13	1
Ethylbenzene	ND		0.0050	0.0022	mg/Kg			07/14/17 10:13	1
Methylene Chloride	ND		0.0050	0.0024	mg/Kg			07/14/17 10:13	1
Methyl tert-butyl ether	ND		0.0050	0.0037	mg/Kg			07/14/17 10:13	1
n-Butylbenzene	ND		0.0050	0.0038	mg/Kg			07/14/17 10:13	1
N-Propylbenzene	ND		0.0050	0.0021	mg/Kg			07/14/17 10:13	1
sec-Butylbenzene	ND		0.0050	0.0024	mg/Kg			07/14/17 10:13	1
tert-Butylbenzene	ND		0.0050	0.0018	mg/Kg			07/14/17 10:13	1
Tetrachloroethene	ND		0.0050	0.0020	mg/Kg			07/14/17 10:13	1
Toluene	ND		0.0050	0.0017	mg/Kg			07/14/17 10:13	1
trans-1,2-Dichloroethene	ND		0.0050	0.0025	mg/Kg			07/14/17 10:13	1
1,1,1-Trichloroethane	ND		0.0050	0.0025	mg/Kg			07/14/17 10:13	1
Trichloroethene	ND		0.0050	0.0015	mg/Kg			07/14/17 10:13	1
1,2,4-Trimethylbenzene	ND		0.0050	0.0013	mg/Kg			07/14/17 10:13	1
1,3,5-Trimethylbenzene	ND		0.0050	0.0017	mg/Kg			07/14/17 10:13	1
Vinyl chloride	ND		0.0050	0.0037	mg/Kg			07/14/17 10:13	1
Xylenes, Total	ND		0.010	0.0043	mg/Kg			07/14/17 10:13	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*63 - 120*		*07/14/17 10:13*	*1*
Dibromofluoromethane (Surr)	*95*		*68 - 121*		*07/14/17 10:13*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*52 - 124*		*07/14/17 10:13*	*1*
Toluene-d8 (Surr)	*109*		*72 - 127*		*07/14/17 10:13*	*1*

Lab Sample ID: LCS 180-217056/4
Matrix: Solid
Analysis Batch: 217056

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0400	0.0478		mg/Kg		120	20 - 150
Benzene	0.0400	0.0387		mg/Kg		97	77 - 120
2-Butanone (MEK)	0.0400	0.0418		mg/Kg		105	35 - 149
Carbon tetrachloride	0.0400	0.0335		mg/Kg		84	69 - 122
Chlorobenzene	0.0400	0.0375		mg/Kg		94	79 - 120
Chloroform	0.0400	0.0374		mg/Kg		94	72 - 120
cis-1,2-Dichloroethene	0.0400	0.0373		mg/Kg		93	80 - 118

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 180-217056/4
Matrix: Solid
Analysis Batch: 217056

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichlorobenzene	0.0400	0.0379		mg/Kg		95	71 - 124
1,3-Dichlorobenzene	0.0400	0.0376		mg/Kg		94	75 - 118
1,4-Dichlorobenzene	0.0400	0.0378		mg/Kg		94	77 - 116
1,1-Dichloroethane	0.0400	0.0406		mg/Kg		102	66 - 124
1,2-Dichloroethane	0.0400	0.0378		mg/Kg		95	61 - 127
1,1-Dichloroethene	0.0400	0.0375		mg/Kg		94	59 - 129
Ethylbenzene	0.0400	0.0368		mg/Kg		92	78 - 125
Methylene Chloride	0.0400	0.0350		mg/Kg		87	58 - 127
Methyl tert-butyl ether	0.0400	0.0371		mg/Kg		93	48 - 132
n-Butylbenzene	0.0400	0.0408		mg/Kg		102	59 - 145
N-Propylbenzene	0.0400	0.0366		mg/Kg		92	80 - 120
sec-Butylbenzene	0.0400	0.0394		mg/Kg		98	70 - 130
tert-Butylbenzene	0.0400	0.0388		mg/Kg		97	74 - 133
Tetrachloroethene	0.0400	0.0374		mg/Kg		93	78 - 129
Toluene	0.0400	0.0394		mg/Kg		98	78 - 124
trans-1,2-Dichloroethene	0.0400	0.0378		mg/Kg		95	77 - 121
1,1,1-Trichloroethane	0.0400	0.0371		mg/Kg		93	67 - 126
Trichloroethene	0.0400	0.0368		mg/Kg		92	76 - 119
1,2,4-Trimethylbenzene	0.0400	0.0389		mg/Kg		97	80 - 121
1,3,5-Trimethylbenzene	0.0400	0.0387		mg/Kg		97	68 - 133
Vinyl chloride	0.0400	0.0474		mg/Kg		118	63 - 124
Xylenes, Total	0.0800	0.0742		mg/Kg		93	83 - 126

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*63 - 120*
Dibromofluoromethane (Surr)	*97*		*68 - 121*
1,2-Dichloroethane-d4 (Surr)	*97*		*52 - 124*
Toluene-d8 (Surr)	*105*		*72 - 127*

Lab Sample ID: MB 180-217186/9
Matrix: Solid
Analysis Batch: 217186

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.020	0.0032	mg/Kg			07/16/17 11:34	1
Benzene	ND		0.0050	0.0020	mg/Kg			07/16/17 11:34	1
2-Butanone (MEK)	ND		0.0050	0.0029	mg/Kg			07/16/17 11:34	1
Carbon tetrachloride	ND		0.0050	0.0033	mg/Kg			07/16/17 11:34	1
Chlorobenzene	ND		0.0050	0.0016	mg/Kg			07/16/17 11:34	1
Chloroform	ND		0.0050	0.0021	mg/Kg			07/16/17 11:34	1
cis-1,2-Dichloroethene	ND		0.0050	0.0016	mg/Kg			07/16/17 11:34	1
1,2-Dichlorobenzene	ND		0.0050	0.0040	mg/Kg			07/16/17 11:34	1
1,3-Dichlorobenzene	ND		0.0050	0.0016	mg/Kg			07/16/17 11:34	1
1,4-Dichlorobenzene	ND		0.0050	0.0010	mg/Kg			07/16/17 11:34	1
1,1-Dichloroethane	ND		0.0050	0.0018	mg/Kg			07/16/17 11:34	1
1,2-Dichloroethane	ND		0.0050	0.0015	mg/Kg			07/16/17 11:34	1
1,1-Dichloroethene	ND		0.0050	0.0029	mg/Kg			07/16/17 11:34	1
Ethylbenzene	ND		0.0050	0.0022	mg/Kg			07/16/17 11:34	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 180-217186/9
Matrix: Solid
Analysis Batch: 217186

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		0.0050	0.0024	mg/Kg			07/16/17 11:34	1
Methyl tert-butyl ether	ND		0.0050	0.0037	mg/Kg			07/16/17 11:34	1
n-Butylbenzene	ND		0.0050	0.0038	mg/Kg			07/16/17 11:34	1
N-Propylbenzene	ND		0.0050	0.0021	mg/Kg			07/16/17 11:34	1
sec-Butylbenzene	ND		0.0050	0.0024	mg/Kg			07/16/17 11:34	1
tert-Butylbenzene	ND		0.0050	0.0018	mg/Kg			07/16/17 11:34	1
Tetrachloroethene	ND		0.0050	0.0020	mg/Kg			07/16/17 11:34	1
Toluene	ND		0.0050	0.0017	mg/Kg			07/16/17 11:34	1
trans-1,2-Dichloroethene	ND		0.0050	0.0025	mg/Kg			07/16/17 11:34	1
1,1,1-Trichloroethane	ND		0.0050	0.0025	mg/Kg			07/16/17 11:34	1
Trichloroethene	ND		0.0050	0.0015	mg/Kg			07/16/17 11:34	1
1,2,4-Trimethylbenzene	ND		0.0050	0.0013	mg/Kg			07/16/17 11:34	1
1,3,5-Trimethylbenzene	ND		0.0050	0.0017	mg/Kg			07/16/17 11:34	1
Vinyl chloride	ND		0.0050	0.0037	mg/Kg			07/16/17 11:34	1
Xylenes, Total	ND		0.010	0.0043	mg/Kg			07/16/17 11:34	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*63 - 120*		*07/16/17 11:34*	*1*
Dibromofluoromethane (Surr)	*95*		*68 - 121*		*07/16/17 11:34*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*52 - 124*		*07/16/17 11:34*	*1*
Toluene-d8 (Surr)	*110*		*72 - 127*		*07/16/17 11:34*	*1*

Lab Sample ID: LCS 180-217186/4
Matrix: Solid
Analysis Batch: 217186

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0400	0.0423		mg/Kg		106	20 - 150
Benzene	0.0400	0.0398		mg/Kg		100	77 - 120
2-Butanone (MEK)	0.0400	0.0368		mg/Kg		92	35 - 149
Carbon tetrachloride	0.0400	0.0365		mg/Kg		91	69 - 122
Chlorobenzene	0.0400	0.0379		mg/Kg		95	79 - 120
Chloroform	0.0400	0.0383		mg/Kg		96	72 - 120
cis-1,2-Dichloroethene	0.0400	0.0378		mg/Kg		94	80 - 118
1,2-Dichlorobenzene	0.0400	0.0386		mg/Kg		96	71 - 124
1,3-Dichlorobenzene	0.0400	0.0389		mg/Kg		97	75 - 118
1,4-Dichlorobenzene	0.0400	0.0387		mg/Kg		97	77 - 116
1,1-Dichloroethane	0.0400	0.0415		mg/Kg		104	66 - 124
1,2-Dichloroethane	0.0400	0.0367		mg/Kg		92	61 - 127
1,1-Dichloroethene	0.0400	0.0378		mg/Kg		95	59 - 129
Ethylbenzene	0.0400	0.0387		mg/Kg		97	78 - 125
Methylene Chloride	0.0400	0.0355		mg/Kg		89	58 - 127
Methyl tert-butyl ether	0.0400	0.0366		mg/Kg		92	48 - 132
n-Butylbenzene	0.0400	0.0429		mg/Kg		107	59 - 145
N-Propylbenzene	0.0400	0.0385		mg/Kg		96	80 - 120
sec-Butylbenzene	0.0400	0.0420		mg/Kg		105	70 - 130
tert-Butylbenzene	0.0400	0.0399		mg/Kg		100	74 - 133
Tetrachloroethene	0.0400	0.0393		mg/Kg		98	78 - 129

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 180-217186/4
Matrix: Solid
Analysis Batch: 217186

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Toluene	0.0400	0.0414		mg/Kg		104	78 - 124
trans-1,2-Dichloroethene	0.0400	0.0386		mg/Kg		97	77 - 121
1,1,1-Trichloroethane	0.0400	0.0403		mg/Kg		101	67 - 126
Trichloroethene	0.0400	0.0381		mg/Kg		95	76 - 119
1,2,4-Trimethylbenzene	0.0400	0.0407		mg/Kg		102	80 - 121
1,3,5-Trimethylbenzene	0.0400	0.0411		mg/Kg		103	68 - 133
Vinyl chloride	0.0400	0.0482		mg/Kg		121	63 - 124
Xylenes, Total	0.0800	0.0771		mg/Kg		96	83 - 126

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*63 - 120*
Dibromofluoromethane (Surr)	*95*		*68 - 121*
1,2-Dichloroethane-d4 (Surr)	*94*		*52 - 124*
Toluene-d8 (Surr)	*106*		*72 - 127*

Lab Sample ID: LCSD 180-217186/5
Matrix: Solid
Analysis Batch: 217186

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	0.0400	0.0423		mg/Kg		106	20 - 150	0	40
Benzene	0.0400	0.0396		mg/Kg		99	77 - 120	1	20
2-Butanone (MEK)	0.0400	0.0414		mg/Kg		103	35 - 149	12	36
Carbon tetrachloride	0.0400	0.0359		mg/Kg		90	69 - 122	2	22
Chlorobenzene	0.0400	0.0384		mg/Kg		96	79 - 120	1	20
Chloroform	0.0400	0.0379		mg/Kg		95	72 - 120	1	25
cis-1,2-Dichloroethene	0.0400	0.0379		mg/Kg		95	80 - 118	0	20
1,2-Dichlorobenzene	0.0400	0.0389		mg/Kg		97	71 - 124	1	22
1,3-Dichlorobenzene	0.0400	0.0389		mg/Kg		97	75 - 118	0	20
1,4-Dichlorobenzene	0.0400	0.0388		mg/Kg		97	77 - 116	0	20
1,1-Dichloroethane	0.0400	0.0417		mg/Kg		104	66 - 124	1	23
1,2-Dichloroethane	0.0400	0.0375		mg/Kg		94	61 - 127	2	23
1,1-Dichloroethene	0.0400	0.0392		mg/Kg		98	59 - 129	4	25
Ethylbenzene	0.0400	0.0381		mg/Kg		95	78 - 125	1	21
Methylene Chloride	0.0400	0.0361		mg/Kg		90	58 - 127	2	28
Methyl tert-butyl ether	0.0400	0.0373		mg/Kg		93	48 - 132	2	36
n-Butylbenzene	0.0400	0.0427		mg/Kg		107	59 - 145	0	24
N-Propylbenzene	0.0400	0.0384		mg/Kg		96	80 - 120	0	20
sec-Butylbenzene	0.0400	0.0418		mg/Kg		104	70 - 130	1	21
tert-Butylbenzene	0.0400	0.0395		mg/Kg		99	74 - 133	1	22
Tetrachloroethene	0.0400	0.0394		mg/Kg		98	78 - 129	0	20
Toluene	0.0400	0.0411		mg/Kg		103	78 - 124	1	21
trans-1,2-Dichloroethene	0.0400	0.0389		mg/Kg		97	77 - 121	1	20
1,1,1-Trichloroethane	0.0400	0.0389		mg/Kg		97	67 - 126	4	31
Trichloroethene	0.0400	0.0381		mg/Kg		95	76 - 119	0	21
1,2,4-Trimethylbenzene	0.0400	0.0405		mg/Kg		101	80 - 121	1	20
1,3,5-Trimethylbenzene	0.0400	0.0406		mg/Kg		102	68 - 133	1	21
Vinyl chloride	0.0400	0.0486		mg/Kg		122	63 - 124	1	27

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 180-217186/5
Matrix: Solid
Analysis Batch: 217186

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Xylenes, Total			0.0800	0.0769		mg/Kg		96	83 - 126	0	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*105*		*63 - 120*
Dibromofluoromethane (Surr)	*102*		*68 - 121*
1,2-Dichloroethane-d4 (Surr)	*100*		*52 - 124*
Toluene-d8 (Surr)	*111*		*72 - 127*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Lab Sample ID: MB 180-216880/1-A
Matrix: Solid
Analysis Batch: 216940

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 216880

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0067	0.0022	mg/Kg		07/13/17 03:37	07/13/17 12:45	1
Acenaphthylene	ND		0.0067	0.0023	mg/Kg		07/13/17 03:37	07/13/17 12:45	1
Anthracene	ND		0.0067	0.0025	mg/Kg		07/13/17 03:37	07/13/17 12:45	1
Benzo[a]anthracene	ND		0.0067	0.0026	mg/Kg		07/13/17 03:37	07/13/17 12:45	1
Benzo[a]pyrene	ND		0.0067	0.0028	mg/Kg		07/13/17 03:37	07/13/17 12:45	1
Benzo[b]fluoranthene	ND		0.0067	0.0029	mg/Kg		07/13/17 03:37	07/13/17 12:45	1
Benzo[g,h,i]perylene	ND		0.0067	0.0029	mg/Kg		07/13/17 03:37	07/13/17 12:45	1
Benzo[k]fluoranthene	ND		0.0067	0.0023	mg/Kg		07/13/17 03:37	07/13/17 12:45	1
Chrysene	ND		0.0067	0.0026	mg/Kg		07/13/17 03:37	07/13/17 12:45	1
Dibenz(a,h)anthracene	ND		0.0067	0.0028	mg/Kg		07/13/17 03:37	07/13/17 12:45	1
Dibenzofuran	ND		0.033	0.0027	mg/Kg		07/13/17 03:37	07/13/17 12:45	1
2,4-Dinitrotoluene	ND		0.033	0.0044	mg/Kg		07/13/17 03:37	07/13/17 12:45	1
1,4-Dioxane	ND		0.067	0.0050	mg/Kg		07/13/17 03:37	07/13/17 12:45	1
Fluoranthene	ND		0.0067	0.0026	mg/Kg		07/13/17 03:37	07/13/17 12:45	1
Fluorene	ND		0.0067	0.0024	mg/Kg		07/13/17 03:37	07/13/17 12:45	1
Hexachlorobenzene	ND		0.0067	0.0027	mg/Kg		07/13/17 03:37	07/13/17 12:45	1
Hexachlorobutadiene	ND		0.0067	0.0021	mg/Kg		07/13/17 03:37	07/13/17 12:45	1
Hexachloroethane	ND		0.033	0.0024	mg/Kg		07/13/17 03:37	07/13/17 12:45	1
Indeno[1,2,3-cd]pyrene	ND		0.0067	0.0026	mg/Kg		07/13/17 03:37	07/13/17 12:45	1
2-Methylphenol	ND		0.033	0.0029	mg/Kg		07/13/17 03:37	07/13/17 12:45	1
Methylphenol, 3 & 4	ND		0.033	0.0030	mg/Kg		07/13/17 03:37	07/13/17 12:45	1
Naphthalene	ND		0.0067	0.0024	mg/Kg		07/13/17 03:37	07/13/17 12:45	1
Nitrobenzene	ND		0.067	0.0025	mg/Kg		07/13/17 03:37	07/13/17 12:45	1
Pentachlorophenol	ND		0.17	0.063	mg/Kg		07/13/17 03:37	07/13/17 12:45	1
Phenanthrene	ND		0.0067	0.0028	mg/Kg		07/13/17 03:37	07/13/17 12:45	1
Phenol	ND		0.033	0.0045	mg/Kg		07/13/17 03:37	07/13/17 12:45	1
Pyrene	ND		0.0067	0.0030	mg/Kg		07/13/17 03:37	07/13/17 12:45	1
Pyridine	ND		0.033	0.0032	mg/Kg		07/13/17 03:37	07/13/17 12:45	1
2,4,5-Trichlorophenol	ND		0.033	0.0032	mg/Kg		07/13/17 03:37	07/13/17 12:45	1
2,4,6-Trichlorophenol	ND		0.033	0.0029	mg/Kg		07/13/17 03:37	07/13/17 12:45	1

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: MB 180-216880/1-A
Matrix: Solid
Analysis Batch: 216940

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 216880

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	50		42 - 100	07/13/17 03:37	07/13/17 12:45	1
2-Fluorophenol (Surr)	56		21 - 107	07/13/17 03:37	07/13/17 12:45	1
Nitrobenzene-d5 (Surr)	58		35 - 109	07/13/17 03:37	07/13/17 12:45	1
Phenol-d5 (Surr)	51		29 - 105	07/13/17 03:37	07/13/17 12:45	1
Terphenyl-d14 (Surr)	59		36 - 113	07/13/17 03:37	07/13/17 12:45	1
2,4,6-Tribromophenol (Surr)	60		20 - 134	07/13/17 03:37	07/13/17 12:45	1

Lab Sample ID: LCS 180-216880/2-A
Matrix: Solid
Analysis Batch: 216940

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 216880

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	0.667	0.539		mg/Kg		81	39 - 100
Acenaphthylene	0.667	0.498		mg/Kg		75	42 - 100
Anthracene	0.667	0.578		mg/Kg		87	43 - 100
Benzo[a]anthracene	0.667	0.554		mg/Kg		83	43 - 100
Benzo[a]pyrene	0.667	0.521		mg/Kg		78	43 - 100
Benzo[b]fluoranthene	0.667	0.535		mg/Kg		80	40 - 100
Benzo[g,h,i]perylene	0.667	0.436		mg/Kg		65	41 - 102
Benzo[k]fluoranthene	0.667	0.519		mg/Kg		78	44 - 100
Chrysene	0.667	0.494		mg/Kg		74	44 - 100
Dibenz(a,h)anthracene	0.667	0.468		mg/Kg		70	40 - 104
Dibenzofuran	0.667	0.501		mg/Kg		75	42 - 100
2,4-Dinitrotoluene	0.667	0.537		mg/Kg		81	42 - 110
1,4-Dioxane	0.667	0.603		mg/Kg		90	19 - 107
Fluoranthene	0.667	0.558		mg/Kg		84	41 - 104
Fluorene	0.667	0.553		mg/Kg		83	41 - 100
Hexachlorobenzene	0.667	0.612		mg/Kg		92	43 - 100
Hexachlorobutadiene	0.667	0.635		mg/Kg		95	35 - 100
Hexachloroethane	0.667	0.500		mg/Kg		75	35 - 100
Indeno[1,2,3-cd]pyrene	0.667	0.474		mg/Kg		71	41 - 104
2-Methylphenol	0.667	0.572		mg/Kg		86	38 - 100
Methylphenol, 3 & 4	0.667	0.561		mg/Kg		84	40 - 100
Naphthalene	0.667	0.546		mg/Kg		82	38 - 100
Nitrobenzene	0.667	0.544		mg/Kg		82	34 - 100
Pentachlorophenol	1.33	1.22		mg/Kg		92	34 - 102
Phenanthrene	0.667	0.563		mg/Kg		84	41 - 100
Phenol	0.667	0.527		mg/Kg		79	36 - 100
Pyrene	0.667	0.537		mg/Kg		80	42 - 100
Pyridine	1.33	1.35		mg/Kg		101	25 - 119
2,4,5-Trichlorophenol	0.667	0.552		mg/Kg		83	42 - 100
2,4,6-Trichlorophenol	0.667	0.539		mg/Kg		81	41 - 103

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	69		42 - 100
2-Fluorophenol (Surr)	74		21 - 107
Nitrobenzene-d5 (Surr)	74		35 - 109

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCS 180-216880/2-A
Matrix: Solid
Analysis Batch: 216940

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 216880

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Phenol-d5 (Surr)	*69*		*29 - 105*
Terphenyl-d14 (Surr)	*72*		*36 - 113*
2,4,6-Tribromophenol (Surr)	*83*		*20 - 134*

Lab Sample ID: 180-68096-6 MS
Matrix: Solid
Analysis Batch: 216940

Client Sample ID: W2, S1, C 71117
Prep Type: Total/NA
Prep Batch: 216880

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	ND		0.733	0.536		mg/Kg	☼	73	39 - 100
Acenaphthylene	0.12	J F2	0.733	0.738		mg/Kg	☼	84	42 - 100
Anthracene	0.15	F2	0.733	0.861		mg/Kg	☼	97	43 - 100
Benzo[a]anthracene	0.59	F1 F2	0.733	1.42	F1	mg/Kg	☼	114	43 - 100
Benzo[a]pyrene	0.61	F1 F2	0.733	1.40	F1	mg/Kg	☼	107	43 - 100
Benzo[b]fluoranthene	0.78	F1 F2	0.733	1.44		mg/Kg	☼	90	40 - 100
Benzo[g,h,i]perylene	0.55	F1 F2	0.733	1.58	F1	mg/Kg	☼	140	41 - 102
Benzo[k]fluoranthene	0.21	F1 F2	0.733	0.943	F1	mg/Kg	☼	101	44 - 100
Chrysene	0.62	F2	0.733	1.31		mg/Kg	☼	94	44 - 100
Dibenz(a,h)anthracene	0.12	J	0.733	0.863		mg/Kg	☼	101	40 - 104
Dibenzofuran	ND		0.733	0.596	J	mg/Kg	☼	81	42 - 100
2,4-Dinitrotoluene	ND	F2	0.733	0.577	J	mg/Kg	☼	79	42 - 110
1,4-Dioxane	ND	F2	0.733	0.608	J	mg/Kg	☼	83	19 - 107
Fluoranthene	0.93	F1 F2	0.733	1.94	F1	mg/Kg	☼	138	41 - 104
Fluorene	ND	F2	0.733	0.567		mg/Kg	☼	77	41 - 100
Hexachlorobenzene	ND		0.733	0.568		mg/Kg	☼	78	43 - 100
Hexachlorobutadiene	ND		0.733	0.636		mg/Kg	☼	87	35 - 100
Hexachloroethane	ND	F2	0.733	0.358	J	mg/Kg	☼	49	35 - 100
Indeno[1,2,3-cd]pyrene	0.50	F1 F2	0.733	1.36	F1	mg/Kg	☼	118	41 - 104
2-Methylphenol	ND		0.733	0.501	J	mg/Kg	☼	68	38 - 100
Methylphenol, 3 & 4	ND		0.733	0.441	J	mg/Kg	☼	60	40 - 100
Naphthalene	0.16		0.733	0.674		mg/Kg	☼	71	38 - 100
Nitrobenzene	ND		0.733	0.582	J	mg/Kg	☼	79	34 - 100
Pentachlorophenol	ND	F1	1.47	ND	F1	mg/Kg	☼	0	34 - 102
Phenanthrene	0.43	F1 F2	0.733	1.48	F1	mg/Kg	☼	145	41 - 100
Phenol	ND		0.733	0.436	J	mg/Kg	☼	59	36 - 100
Pyrene	0.92	F1 F2	0.733	1.88	F1	mg/Kg	☼	131	42 - 100
Pyridine	ND		1.47	0.540	J	mg/Kg	☼	37	25 - 119
2,4,5-Trichlorophenol	ND		0.733	0.479	J	mg/Kg	☼	65	42 - 100
2,4,6-Trichlorophenol	ND		0.733	0.432	J	mg/Kg	☼	59	41 - 103

Surrogate	MS %Recovery	MS Qualifier	Limits
2-Fluorobiphenyl	*60*		*42 - 100*
2-Fluorophenol (Surr)	*54*		*21 - 107*
Nitrobenzene-d5 (Surr)	*69*		*35 - 109*
Phenol-d5 (Surr)	*54*		*29 - 105*
Terphenyl-d14 (Surr)	*74*		*36 - 113*
2,4,6-Tribromophenol (Surr)	*64*		*20 - 134*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: 180-68096-6 MSD
Matrix: Solid
Analysis Batch: 216940

Client Sample ID: W2, S1, C 71117
Prep Type: Total/NA
Prep Batch: 216880

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	ND		0.728	0.462		mg/Kg	☼	63	39 - 100	15	20
Acenaphthylene	0.12	J F2	0.728	0.577	F2	mg/Kg	☼	62	42 - 100	24	20
Anthracene	0.15	F2	0.728	0.632	F2	mg/Kg	☼	66	43 - 100	31	20
Benzo[a]anthracene	0.59	F1 F2	0.728	0.932	F2	mg/Kg	☼	47	43 - 100	41	20
Benzo[a]pyrene	0.61	F1 F2	0.728	0.991	F2	mg/Kg	☼	52	43 - 100	34	20
Benzo[b]fluoranthene	0.78	F1 F2	0.728	1.05	F1 F2	mg/Kg	☼	38	40 - 100	31	20
Benzo[g,h,i]perylene	0.55	F1 F2	0.728	1.14	F2	mg/Kg	☼	80	41 - 102	32	20
Benzo[k]fluoranthene	0.21	F1 F2	0.728	0.625	F2	mg/Kg	☼	58	44 - 100	40	20
Chrysene	0.62	F2	0.728	0.948	F2	mg/Kg	☼	46	44 - 100	32	20
Dibenz(a,h)anthracene	0.12	J	0.728	0.680		mg/Kg	☼	76	40 - 104	24	26
Dibenzofuran	ND		0.728	0.480	J	mg/Kg	☼	66	42 - 100	21	23
2,4-Dinitrotoluene	ND	F2	0.728	0.438	J F2	mg/Kg	☼	60	42 - 110	27	21
1,4-Dioxane	ND	F2	0.728	0.491	J F2	mg/Kg	☼	67	19 - 107	21	20
Fluoranthene	0.93	F1 F2	0.728	1.22	F1 F2	mg/Kg	☼	40	41 - 104	45	20
Fluorene	ND	F2	0.728	0.451	F2	mg/Kg	☼	62	41 - 100	23	21
Hexachlorobenzene	ND		0.728	0.515		mg/Kg	☼	71	43 - 100	10	21
Hexachlorobutadiene	ND		0.728	0.522		mg/Kg	☼	72	35 - 100	20	20
Hexachloroethane	ND	F2	0.728	0.267	J F2	mg/Kg	☼	37	35 - 100	29	20
Indeno[1,2,3-cd]pyrene	0.50	F1 F2	0.728	0.989	F2	mg/Kg	☼	67	41 - 104	32	25
2-Methylphenol	ND		0.728	0.409	J	mg/Kg	☼	56	38 - 100	20	20
Methylphenol, 3 & 4	ND		0.728	0.469	J	mg/Kg	☼	64	40 - 100	6	20
Naphthalene	0.16		0.728	0.592		mg/Kg	☼	60	38 - 100	13	20
Nitrobenzene	ND		0.728	0.504	J	mg/Kg	☼	69	34 - 100	14	20
Pentachlorophenol	ND	F1	1.46	ND	F1	mg/Kg	☼	0	34 - 102	NC	20
Phenanthrene	0.43	F1 F2	0.728	0.893	F2	mg/Kg	☼	64	41 - 100	50	20
Phenol	ND		0.728	0.424	J	mg/Kg	☼	58	36 - 100	3	20
Pyrene	0.92	F1 F2	0.728	1.29	F2	mg/Kg	☼	50	42 - 100	38	21
Pyridine	ND		1.46	0.492	J	mg/Kg	☼	34	25 - 119	9	20
2,4,5-Trichlorophenol	ND		0.728	0.388	J	mg/Kg	☼	53	42 - 100	21	22
2,4,6-Trichlorophenol	ND		0.728	0.389	J	mg/Kg	☼	53	41 - 103	11	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl	*54*		*42 - 100*
2-Fluorophenol (Surr)	*60*		*21 - 107*
Nitrobenzene-d5 (Surr)	*68*		*35 - 109*
Phenol-d5 (Surr)	*57*		*29 - 105*
Terphenyl-d14 (Surr)	*71*		*36 - 113*
2,4,6-Tribromophenol (Surr)	*54*		*20 - 134*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 180-216879/1-C
Matrix: Solid
Analysis Batch: 217035

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 216879

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.017	0.0088	mg/Kg		07/13/17 03:34	07/14/17 13:27	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: MB 180-216879/1-C
Matrix: Solid
Analysis Batch: 217035

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 216879

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1221	ND		0.017	0.0086	mg/Kg		07/13/17 03:34	07/14/17 13:27	1
PCB-1232	ND		0.017	0.0066	mg/Kg		07/13/17 03:34	07/14/17 13:27	1
PCB-1242	ND		0.017	0.013	mg/Kg		07/13/17 03:34	07/14/17 13:27	1
PCB-1248	ND		0.017	0.0080	mg/Kg		07/13/17 03:34	07/14/17 13:27	1
PCB-1254	ND		0.017	0.0073	mg/Kg		07/13/17 03:34	07/14/17 13:27	1
PCB-1260	ND		0.017	0.011	mg/Kg		07/13/17 03:34	07/14/17 13:27	1
PCB-1262	ND		0.017	0.012	mg/Kg		07/13/17 03:34	07/14/17 13:27	1
PCB-1268	ND		0.017	0.0051	mg/Kg		07/13/17 03:34	07/14/17 13:27	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*91*		*23 - 150*	*07/13/17 03:34*	*07/14/17 13:27*	*1*
DCB Decachlorobiphenyl (Surr)	*94*		*23 - 150*	*07/13/17 03:34*	*07/14/17 13:27*	*1*
Tetrachloro-m-xylene (Surr)	*103*		*27 - 138*	*07/13/17 03:34*	*07/14/17 13:27*	*1*
Tetrachloro-m-xylene (Surr)	*98*		*27 - 138*	*07/13/17 03:34*	*07/14/17 13:27*	*1*

Lab Sample ID: LCS 180-216879/2-C
Matrix: Solid
Analysis Batch: 217035

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 216879

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			1.33	1.37		mg/Kg		103	52 - 126		
PCB-1260			1.33	1.38		mg/Kg		103	50 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*103*		*23 - 150*
DCB Decachlorobiphenyl (Surr)	*109*		*23 - 150*
Tetrachloro-m-xylene (Surr)	*119*		*27 - 138*
Tetrachloro-m-xylene (Surr)	*112*		*27 - 138*

Lab Sample ID: 180-68096-6 MS
Matrix: Solid
Analysis Batch: 217035

Client Sample ID: W2, S1, C 71117
Prep Type: Total/NA
Prep Batch: 216879

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016	ND		1.45	1.53		mg/Kg	☼	106	52 - 126		
PCB-1260	0.19		1.45	1.27		mg/Kg	☼	74	50 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*78*		*23 - 150*
DCB Decachlorobiphenyl (Surr)	*89*		*23 - 150*
Tetrachloro-m-xylene (Surr)	*88*		*27 - 138*
Tetrachloro-m-xylene (Surr)	*79*		*27 - 138*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 180-68096-6 MSD
Matrix: Solid
Analysis Batch: 217035

Client Sample ID: W2, S1, C 71117
Prep Type: Total/NA
Prep Batch: 216879

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	ND		1.48	1.69		mg/Kg	☼	114	52 - 126	10	20
PCB-1260	0.19		1.48	1.34		mg/Kg	☼	78	50 - 130	6	21

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*79*		*23 - 150*
DCB Decachlorobiphenyl (Surr)	*85*		*23 - 150*
Tetrachloro-m-xylene (Surr)	*85*		*27 - 138*
Tetrachloro-m-xylene (Surr)	*75*		*27 - 138*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 180-216920/1-A
Matrix: Solid
Analysis Batch: 217205

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 216920

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		1.0	0.44	mg/Kg		07/13/17 09:05	07/14/17 12:41	1
Barium	ND		20	5.4	mg/Kg		07/13/17 09:05	07/14/17 12:41	1
Beryllium	ND		0.40	0.10	mg/Kg		07/13/17 09:05	07/14/17 12:41	1
Cadmium	ND		0.50	0.11	mg/Kg		07/13/17 09:05	07/14/17 12:41	1
Chromium	ND		0.50	0.13	mg/Kg		07/13/17 09:05	07/14/17 12:41	1
Copper	ND		2.5	0.77	mg/Kg		07/13/17 09:05	07/14/17 12:41	1
Lead	ND		1.0	0.33	mg/Kg		07/13/17 09:05	07/14/17 12:41	1
Manganese	ND		1.5	0.41	mg/Kg		07/13/17 09:05	07/14/17 12:41	1
Nickel	ND		4.0	0.90	mg/Kg		07/13/17 09:05	07/14/17 12:41	1
Selenium	ND		1.0	0.40	mg/Kg		07/13/17 09:05	07/14/17 12:41	1
Silver	ND		0.50	0.17	mg/Kg		07/13/17 09:05	07/14/17 12:41	1
Zinc	ND		2.0	1.0	mg/Kg		07/13/17 09:05	07/14/17 12:41	1

Lab Sample ID: LCS 180-216920/2-A
Matrix: Solid
Analysis Batch: 217205

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 216920

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	50.0	52.0		mg/Kg		104	80 - 120
Barium	200	202		mg/Kg		101	80 - 120
Beryllium	5.00	5.07		mg/Kg		101	80 - 120
Cadmium	5.00	5.15		mg/Kg		103	80 - 120
Chromium	20.0	19.4		mg/Kg		97	80 - 120
Copper	25.0	24.9		mg/Kg		100	80 - 120
Lead	50.0	49.2		mg/Kg		98	80 - 120
Manganese	50.0	49.6		mg/Kg		99	80 - 120
Nickel	50.0	50.9		mg/Kg		102	80 - 120
Selenium	50.0	50.9		mg/Kg		102	80 - 120
Silver	5.00	4.98		mg/Kg		100	80 - 120
Zinc	50.0	50.0		mg/Kg		100	80 - 120

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 180-68096-6 MS
Matrix: Solid
Analysis Batch: 217205

Client Sample ID: W2, S1, C 71117
Prep Type: Total/NA
Prep Batch: 216920

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	6.6		55.1	51.5		mg/Kg	☼	81	75 - 125
Barium	84		221	266		mg/Kg	☼	83	75 - 125
Beryllium	0.35	J	5.51	4.85		mg/Kg	☼	82	75 - 125
Cadmium	0.24	J	5.51	4.69		mg/Kg	☼	81	75 - 125
Chromium	10		22.1	29.0		mg/Kg	☼	85	75 - 125
Copper	26	F1	27.6	45.3	F1	mg/Kg	☼	69	75 - 125
Lead	33		55.1	84.2		mg/Kg	☼	93	75 - 125
Manganese	800	F2	55.1	417	4	mg/Kg	☼	-689	75 - 125
Nickel	19		55.1	65.0		mg/Kg	☼	84	75 - 125
Selenium	0.47	J	55.1	44.7		mg/Kg	☼	80	75 - 125
Silver	ND		5.51	4.48		mg/Kg	☼	81	75 - 125
Zinc	76	F1	55.1	116	F1	mg/Kg	☼	73	75 - 125

Lab Sample ID: 180-68096-6 MSD
Matrix: Solid
Analysis Batch: 217205

Client Sample ID: W2, S1, C 71117
Prep Type: Total/NA
Prep Batch: 216920

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	6.6		53.5	50.1		mg/Kg	☼	81	75 - 125	3	20
Barium	84		214	254		mg/Kg	☼	79	75 - 125	5	20
Beryllium	0.35	J	5.35	4.65		mg/Kg	☼	80	75 - 125	4	20
Cadmium	0.24	J	5.35	4.54		mg/Kg	☼	80	75 - 125	3	20
Chromium	10		21.4	27.3		mg/Kg	☼	79	75 - 125	6	20
Copper	26	F1	26.8	48.5		mg/Kg	☼	84	75 - 125	7	20
Lead	33		53.5	78.0		mg/Kg	☼	84	75 - 125	8	20
Manganese	800	F2	53.5	523	4 F2	mg/Kg	☼	-511	75 - 125	23	20
Nickel	19		53.5	66.5		mg/Kg	☼	89	75 - 125	2	20
Selenium	0.47	J	53.5	42.6		mg/Kg	☼	79	75 - 125	5	20
Silver	ND		5.35	4.40		mg/Kg	☼	82	75 - 125	2	20
Zinc	76	F1	53.5	111	F1	mg/Kg	☼	65	75 - 125	5	20

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 180-217097/1-A
Matrix: Solid
Analysis Batch: 217252

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 217097

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.033	0.0074	mg/Kg		07/14/17 11:17	07/17/17 09:07	1

Lab Sample ID: LCS 180-217097/2-A
Matrix: Solid
Analysis Batch: 217252

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 217097

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.417	0.469		mg/Kg		113	80 - 120

Method: 7471B - Mercury (CVAA) (Continued)

Lab Sample ID: 180-68096-6 MS
Matrix: Solid
Analysis Batch: 217252

Client Sample ID: W2, S1, C 71117
Prep Type: Total/NA
Prep Batch: 217097

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.41	F1	0.180	0.762	F1	mg/Kg	☼	196	80 - 120

Lab Sample ID: 180-68096-6 MSD
Matrix: Solid
Analysis Batch: 217252

Client Sample ID: W2, S1, C 71117
Prep Type: Total/NA
Prep Batch: 217097

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.41	F1	0.183	0.659	F1	mg/Kg	☼	136	80 - 120	15	20

Method: 2540G - SM 2540G

Lab Sample ID: 180-68096-9 DU
Matrix: Solid
Analysis Batch: 216865

Client Sample ID: W2, S2, C 71117
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	11.8		11.9		%		0.4	20
Percent Solids	88.2		88.1		%		0.06	20

Lab Sample ID: 180-68096-18 DU
Matrix: Solid
Analysis Batch: 216870

Client Sample ID: W2, S5 C 71117
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	8.7		9.1		%		5	20
Percent Solids	91.3		90.9		%		0.5	20

Lab Sample ID: 180-68096-28 DU
Matrix: Solid
Analysis Batch: 216870

Client Sample ID: W3, S3, B 71117
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	10.9		9.8		%		11	20
Percent Solids	89.1		90.2		%		1	20

Method: 9014 - Cyanide

Lab Sample ID: MB 180-216972/4-A
Matrix: Solid
Analysis Batch: 217087

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 216972

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.50	0.15	mg/Kg		07/13/17 12:02	07/13/17 15:51	1

Method: 9014 - Cyanide (Continued)

Lab Sample ID: HLCS 180-216972/2-A
Matrix: Solid
Analysis Batch: 217087

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 216972

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.250	0.255		mg/Kg		102	90 - 110

Lab Sample ID: LCS 180-216972/3-A
Matrix: Solid
Analysis Batch: 217087

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 216972

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	166	121		mg/Kg		73	38 - 162

Lab Sample ID: LLCS 180-216972/1-A
Matrix: Solid
Analysis Batch: 217087

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 216972

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.0500	0.0471		mg/Kg		94	90 - 110

Lab Sample ID: 180-68096-6 MS
Matrix: Solid
Analysis Batch: 217087

Client Sample ID: W2, S1, C 71117
Prep Type: Total/NA
Prep Batch: 216972

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	ND		5.46	5.54		mg/Kg	☼	101	75 - 125

Lab Sample ID: 180-68096-6 MSD
Matrix: Solid
Analysis Batch: 217087

Client Sample ID: W2, S1, C 71117
Prep Type: Total/NA
Prep Batch: 216972

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cyanide, Total	ND		5.30	5.46		mg/Kg	☼	103	75 - 125	1	20

GC/MS VOA

Analysis Batch: 216893

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68096-1	W1, S5, A 71117	Total/NA	Solid	8260C	216904
180-68096-2	W1, S5, B 71117	Total/NA	Solid	8260C	216904
180-68096-4	W2, S1, A 71117	Total/NA	Solid	8260C	216904
180-68096-5	W2, S1, B 71117	Total/NA	Solid	8260C	216904
180-68096-7	W2, S2, A 71117	Total/NA	Solid	8260C	216904
180-68096-8	W2, S2, B 71117	Total/NA	Solid	8260C	216904
180-68096-10	W2, S3, A 71117	Total/NA	Solid	8260C	216904
180-68096-11	W2, S3, B 71117	Total/NA	Solid	8260C	216904
180-68096-13	W2, S4, A 71117	Total/NA	Solid	8260C	216904
180-68096-14	W2, S4, B 71117	Total/NA	Solid	8260C	216904
180-68096-16	W2, S5 A 71117	Total/NA	Solid	8260C	216904
180-68096-17	W2, S5 B 71117	Total/NA	Solid	8260C	216904
MB 180-216893/9	Method Blank	Total/NA	Solid	8260C	
LCS 180-216893/4	Lab Control Sample	Total/NA	Solid	8260C	
180-68096-4 MS	W2, S1, A 71117	Total/NA	Solid	8260C	216904
180-68096-4 MSD	W2, S1, A 71117	Total/NA	Solid	8260C	216904

Prep Batch: 216904

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68096-1	W1, S5, A 71117	Total/NA	Solid	5035	
180-68096-2	W1, S5, B 71117	Total/NA	Solid	5035	
180-68096-4	W2, S1, A 71117	Total/NA	Solid	5035	
180-68096-5	W2, S1, B 71117	Total/NA	Solid	5035	
180-68096-7	W2, S2, A 71117	Total/NA	Solid	5035	
180-68096-8	W2, S2, B 71117	Total/NA	Solid	5035	
180-68096-10	W2, S3, A 71117	Total/NA	Solid	5035	
180-68096-11	W2, S3, B 71117	Total/NA	Solid	5035	
180-68096-13	W2, S4, A 71117	Total/NA	Solid	5035	
180-68096-14	W2, S4, B 71117	Total/NA	Solid	5035	
180-68096-16	W2, S5 A 71117	Total/NA	Solid	5035	
180-68096-17	W2, S5 B 71117	Total/NA	Solid	5035	
180-68096-4 MS	W2, S1, A 71117	Total/NA	Solid	5035	
180-68096-4 MSD	W2, S1, A 71117	Total/NA	Solid	5035	

Prep Batch: 217050

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68096-34	W3, S5, A 71117	Total/NA	Solid	5035	
180-68096-35	W3, S5, B 71117	Total/NA	Solid	5035	

Analysis Batch: 217056

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68096-34	W3, S5, A 71117	Total/NA	Solid	8260C	217050
180-68096-35	W3, S5, B 71117	Total/NA	Solid	8260C	217050
MB 180-217056/9	Method Blank	Total/NA	Solid	8260C	
LCS 180-217056/4	Lab Control Sample	Total/NA	Solid	8260C	

Analysis Batch: 217186

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68096-19	W3, S1 A 71117	Total/NA	Solid	8260C	217187
180-68096-20	W3, S1 B 71117	Total/NA	Solid	8260C	217187
180-68096-21	DUP-3	Total/NA	Solid	8260C	217187

GC/MS VOA (Continued)

Analysis Batch: 217186 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68096-24	W3, S2, A 71117	Total/NA	Solid	8260C	217187
180-68096-25	W3, S2, B 71117	Total/NA	Solid	8260C	217187
180-68096-27	W3, S3, A 71117	Total/NA	Solid	8260C	217187
180-68096-28	W3, S3, B 71117	Total/NA	Solid	8260C	217187
180-68096-30	W3, S4, A 71117	Total/NA	Solid	8260C	217187
180-68096-31	W3, S4, B 71117	Total/NA	Solid	8260C	217187
180-68096-33	DUP-5	Total/NA	Solid	8260C	217187
MB 180-217186/9	Method Blank	Total/NA	Solid	8260C	
LCS 180-217186/4	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 180-217186/5	Lab Control Sample Dup	Total/NA	Solid	8260C	

Prep Batch: 217187

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68096-19	W3, S1 A 71117	Total/NA	Solid	5035	
180-68096-20	W3, S1 B 71117	Total/NA	Solid	5035	
180-68096-21	DUP-3	Total/NA	Solid	5035	
180-68096-24	W3, S2, A 71117	Total/NA	Solid	5035	
180-68096-25	W3, S2, B 71117	Total/NA	Solid	5035	
180-68096-27	W3, S3, A 71117	Total/NA	Solid	5035	
180-68096-28	W3, S3, B 71117	Total/NA	Solid	5035	
180-68096-30	W3, S4, A 71117	Total/NA	Solid	5035	
180-68096-31	W3, S4, B 71117	Total/NA	Solid	5035	
180-68096-33	DUP-5	Total/NA	Solid	5035	

Analysis Batch: 217200

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68096-37	TRIP BLANK 1	Total/NA	Water	8260C	
180-68096-38	TRIP BLANK 2	Total/NA	Water	8260C	
MB 180-217200/7	Method Blank	Total/NA	Water	8260C	
LCS 180-217200/4	Lab Control Sample	Total/NA	Water	8260C	
LCSD 180-217200/5	Lab Control Sample Dup	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 216880

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68096-3	W1, S5, C 71117	Total/NA	Solid	3541	
180-68096-6	W2, S1, C 71117	Total/NA	Solid	3541	
180-68096-9	W2, S2, C 71117	Total/NA	Solid	3541	
180-68096-12	W2, S3, C 71117	Total/NA	Solid	3541	
180-68096-15	W2, S4, C 71117	Total/NA	Solid	3541	
180-68096-18	W2, S5 C 71117	Total/NA	Solid	3541	
180-68096-22	DUP-4	Total/NA	Solid	3541	
180-68096-23	W3, S1, C 71117	Total/NA	Solid	3541	
180-68096-26	W3, S2, C 71117	Total/NA	Solid	3541	
180-68096-29	W3, S3, C 71117	Total/NA	Solid	3541	
180-68096-32	W3, S4, C 71117	Total/NA	Solid	3541	
180-68096-36	W3, S5, C 71117	Total/NA	Solid	3541	
MB 180-216880/1-A	Method Blank	Total/NA	Solid	3541	
LCS 180-216880/2-A	Lab Control Sample	Total/NA	Solid	3541	

GC/MS Semi VOA (Continued)

Prep Batch: 216880 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68096-6 MS	W2, S1, C 71117	Total/NA	Solid	3541	
180-68096-6 MSD	W2, S1, C 71117	Total/NA	Solid	3541	

Analysis Batch: 216940

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68096-3	W1, S5, C 71117	Total/NA	Solid	8270D LL	216880
180-68096-6	W2, S1, C 71117	Total/NA	Solid	8270D LL	216880
180-68096-9	W2, S2, C 71117	Total/NA	Solid	8270D LL	216880
180-68096-12	W2, S3, C 71117	Total/NA	Solid	8270D LL	216880
180-68096-15	W2, S4, C 71117	Total/NA	Solid	8270D LL	216880
180-68096-18	W2, S5 C 71117	Total/NA	Solid	8270D LL	216880
180-68096-22	DUP-4	Total/NA	Solid	8270D LL	216880
180-68096-23	W3, S1, C 71117	Total/NA	Solid	8270D LL	216880
MB 180-216880/1-A	Method Blank	Total/NA	Solid	8270D LL	216880
LCS 180-216880/2-A	Lab Control Sample	Total/NA	Solid	8270D LL	216880
180-68096-6 MS	W2, S1, C 71117	Total/NA	Solid	8270D LL	216880
180-68096-6 MSD	W2, S1, C 71117	Total/NA	Solid	8270D LL	216880

Analysis Batch: 217242

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68096-26	W3, S2, C 71117	Total/NA	Solid	8270D LL	216880
180-68096-29	W3, S3, C 71117	Total/NA	Solid	8270D LL	216880
180-68096-32	W3, S4, C 71117	Total/NA	Solid	8270D LL	216880
180-68096-36	W3, S5, C 71117	Total/NA	Solid	8270D LL	216880

GC Semi VOA

Prep Batch: 216879

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68096-3	W1, S5, C 71117	Total/NA	Solid	3541	
180-68096-6	W2, S1, C 71117	Total/NA	Solid	3541	
180-68096-9	W2, S2, C 71117	Total/NA	Solid	3541	
180-68096-12	W2, S3, C 71117	Total/NA	Solid	3541	
180-68096-15	W2, S4, C 71117	Total/NA	Solid	3541	
180-68096-18	W2, S5 C 71117	Total/NA	Solid	3541	
180-68096-22	DUP-4	Total/NA	Solid	3541	
180-68096-23	W3, S1, C 71117	Total/NA	Solid	3541	
180-68096-26	W3, S2, C 71117	Total/NA	Solid	3541	
180-68096-29	W3, S3, C 71117	Total/NA	Solid	3541	
180-68096-32	W3, S4, C 71117	Total/NA	Solid	3541	
180-68096-36	W3, S5, C 71117	Total/NA	Solid	3541	
MB 180-216879/1-C	Method Blank	Total/NA	Solid	3541	
LCS 180-216879/2-C	Lab Control Sample	Total/NA	Solid	3541	
180-68096-6 MS	W2, S1, C 71117	Total/NA	Solid	3541	
180-68096-6 MSD	W2, S1, C 71117	Total/NA	Solid	3541	

Cleanup Batch: 216929

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68096-3	W1, S5, C 71117	Total/NA	Solid	3665A	216879
180-68096-6	W2, S1, C 71117	Total/NA	Solid	3665A	216879

GC Semi VOA (Continued)

Cleanup Batch: 216929 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68096-9	W2, S2, C 71117	Total/NA	Solid	3665A	216879
180-68096-12	W2, S3, C 71117	Total/NA	Solid	3665A	216879
180-68096-15	W2, S4, C 71117	Total/NA	Solid	3665A	216879
180-68096-18	W2, S5 C 71117	Total/NA	Solid	3665A	216879
180-68096-22	DUP-4	Total/NA	Solid	3665A	216879
180-68096-23	W3, S1, C 71117	Total/NA	Solid	3665A	216879
180-68096-26	W3, S2, C 71117	Total/NA	Solid	3665A	216879
180-68096-29	W3, S3, C 71117	Total/NA	Solid	3665A	216879
180-68096-32	W3, S4, C 71117	Total/NA	Solid	3665A	216879
180-68096-36	W3, S5, C 71117	Total/NA	Solid	3665A	216879
MB 180-216879/1-C	Method Blank	Total/NA	Solid	3665A	216879
LCS 180-216879/2-C	Lab Control Sample	Total/NA	Solid	3665A	216879
180-68096-6 MS	W2, S1, C 71117	Total/NA	Solid	3665A	216879
180-68096-6 MSD	W2, S1, C 71117	Total/NA	Solid	3665A	216879

Cleanup Batch: 216930

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68096-3	W1, S5, C 71117	Total/NA	Solid	3660B	216929
180-68096-6	W2, S1, C 71117	Total/NA	Solid	3660B	216929
180-68096-9	W2, S2, C 71117	Total/NA	Solid	3660B	216929
180-68096-12	W2, S3, C 71117	Total/NA	Solid	3660B	216929
180-68096-15	W2, S4, C 71117	Total/NA	Solid	3660B	216929
180-68096-18	W2, S5 C 71117	Total/NA	Solid	3660B	216929
180-68096-22	DUP-4	Total/NA	Solid	3660B	216929
180-68096-23	W3, S1, C 71117	Total/NA	Solid	3660B	216929
180-68096-26	W3, S2, C 71117	Total/NA	Solid	3660B	216929
180-68096-29	W3, S3, C 71117	Total/NA	Solid	3660B	216929
180-68096-32	W3, S4, C 71117	Total/NA	Solid	3660B	216929
180-68096-36	W3, S5, C 71117	Total/NA	Solid	3660B	216929
MB 180-216879/1-C	Method Blank	Total/NA	Solid	3660B	216929
LCS 180-216879/2-C	Lab Control Sample	Total/NA	Solid	3660B	216929
180-68096-6 MS	W2, S1, C 71117	Total/NA	Solid	3660B	216929
180-68096-6 MSD	W2, S1, C 71117	Total/NA	Solid	3660B	216929

Analysis Batch: 217035

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68096-3	W1, S5, C 71117	Total/NA	Solid	8082A	216930
180-68096-6	W2, S1, C 71117	Total/NA	Solid	8082A	216930
180-68096-9	W2, S2, C 71117	Total/NA	Solid	8082A	216930
180-68096-12	W2, S3, C 71117	Total/NA	Solid	8082A	216930
180-68096-15	W2, S4, C 71117	Total/NA	Solid	8082A	216930
180-68096-18	W2, S5 C 71117	Total/NA	Solid	8082A	216930
180-68096-22	DUP-4	Total/NA	Solid	8082A	216930
180-68096-23	W3, S1, C 71117	Total/NA	Solid	8082A	216930
180-68096-26	W3, S2, C 71117	Total/NA	Solid	8082A	216930
180-68096-29	W3, S3, C 71117	Total/NA	Solid	8082A	216930
180-68096-32	W3, S4, C 71117	Total/NA	Solid	8082A	216930
180-68096-36	W3, S5, C 71117	Total/NA	Solid	8082A	216930
MB 180-216879/1-C	Method Blank	Total/NA	Solid	8082A	216930
LCS 180-216879/2-C	Lab Control Sample	Total/NA	Solid	8082A	216930
180-68096-6 MS	W2, S1, C 71117	Total/NA	Solid	8082A	216930

GC Semi VOA (Continued)

Analysis Batch: 217035 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68096-6 MSD	W2, S1, C 71117	Total/NA	Solid	8082A	216930

Metals

Prep Batch: 216920

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68096-3	W1, S5, C 71117	Total/NA	Solid	3050B	
180-68096-6	W2, S1, C 71117	Total/NA	Solid	3050B	
180-68096-9	W2, S2, C 71117	Total/NA	Solid	3050B	
180-68096-12	W2, S3, C 71117	Total/NA	Solid	3050B	
180-68096-15	W2, S4, C 71117	Total/NA	Solid	3050B	
180-68096-18	W2, S5 C 71117	Total/NA	Solid	3050B	
180-68096-22	DUP-4	Total/NA	Solid	3050B	
180-68096-23	W3, S1, C 71117	Total/NA	Solid	3050B	
180-68096-26	W3, S2, C 71117	Total/NA	Solid	3050B	
180-68096-29	W3, S3, C 71117	Total/NA	Solid	3050B	
180-68096-32	W3, S4, C 71117	Total/NA	Solid	3050B	
180-68096-36	W3, S5, C 71117	Total/NA	Solid	3050B	
MB 180-216920/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 180-216920/2-A	Lab Control Sample	Total/NA	Solid	3050B	
180-68096-6 MS	W2, S1, C 71117	Total/NA	Solid	3050B	
180-68096-6 MSD	W2, S1, C 71117	Total/NA	Solid	3050B	

Prep Batch: 217097

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68096-3	W1, S5, C 71117	Total/NA	Solid	7471B	
180-68096-6	W2, S1, C 71117	Total/NA	Solid	7471B	
180-68096-9	W2, S2, C 71117	Total/NA	Solid	7471B	
180-68096-12	W2, S3, C 71117	Total/NA	Solid	7471B	
180-68096-15	W2, S4, C 71117	Total/NA	Solid	7471B	
180-68096-18	W2, S5 C 71117	Total/NA	Solid	7471B	
180-68096-22	DUP-4	Total/NA	Solid	7471B	
180-68096-23	W3, S1, C 71117	Total/NA	Solid	7471B	
180-68096-26	W3, S2, C 71117	Total/NA	Solid	7471B	
180-68096-29	W3, S3, C 71117	Total/NA	Solid	7471B	
180-68096-32	W3, S4, C 71117	Total/NA	Solid	7471B	
180-68096-36	W3, S5, C 71117	Total/NA	Solid	7471B	
MB 180-217097/1-A	Method Blank	Total/NA	Solid	7471B	
LCS 180-217097/2-A	Lab Control Sample	Total/NA	Solid	7471B	
180-68096-6 MS	W2, S1, C 71117	Total/NA	Solid	7471B	
180-68096-6 MSD	W2, S1, C 71117	Total/NA	Solid	7471B	

Analysis Batch: 217205

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68096-3	W1, S5, C 71117	Total/NA	Solid	6010C	216920
180-68096-6	W2, S1, C 71117	Total/NA	Solid	6010C	216920
180-68096-9	W2, S2, C 71117	Total/NA	Solid	6010C	216920
180-68096-12	W2, S3, C 71117	Total/NA	Solid	6010C	216920
180-68096-15	W2, S4, C 71117	Total/NA	Solid	6010C	216920
180-68096-18	W2, S5 C 71117	Total/NA	Solid	6010C	216920

Metals (Continued)

Analysis Batch: 217205 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68096-22	DUP-4	Total/NA	Solid	6010C	216920
180-68096-23	W3, S1, C 71117	Total/NA	Solid	6010C	216920
180-68096-26	W3, S2, C 71117	Total/NA	Solid	6010C	216920
180-68096-29	W3, S3, C 71117	Total/NA	Solid	6010C	216920
180-68096-32	W3, S4, C 71117	Total/NA	Solid	6010C	216920
180-68096-36	W3, S5, C 71117	Total/NA	Solid	6010C	216920
MB 180-216920/1-A	Method Blank	Total/NA	Solid	6010C	216920
LCS 180-216920/2-A	Lab Control Sample	Total/NA	Solid	6010C	216920
180-68096-6 MS	W2, S1, C 71117	Total/NA	Solid	6010C	216920
180-68096-6 MSD	W2, S1, C 71117	Total/NA	Solid	6010C	216920

Analysis Batch: 217252

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68096-3	W1, S5, C 71117	Total/NA	Solid	7471B	217097
180-68096-6	W2, S1, C 71117	Total/NA	Solid	7471B	217097
180-68096-9	W2, S2, C 71117	Total/NA	Solid	7471B	217097
180-68096-12	W2, S3, C 71117	Total/NA	Solid	7471B	217097
180-68096-15	W2, S4, C 71117	Total/NA	Solid	7471B	217097
180-68096-18	W2, S5 C 71117	Total/NA	Solid	7471B	217097
180-68096-22	DUP-4	Total/NA	Solid	7471B	217097
180-68096-23	W3, S1, C 71117	Total/NA	Solid	7471B	217097
180-68096-26	W3, S2, C 71117	Total/NA	Solid	7471B	217097
180-68096-29	W3, S3, C 71117	Total/NA	Solid	7471B	217097
180-68096-32	W3, S4, C 71117	Total/NA	Solid	7471B	217097
180-68096-36	W3, S5, C 71117	Total/NA	Solid	7471B	217097
MB 180-217097/1-A	Method Blank	Total/NA	Solid	7471B	217097
LCS 180-217097/2-A	Lab Control Sample	Total/NA	Solid	7471B	217097
180-68096-6 MS	W2, S1, C 71117	Total/NA	Solid	7471B	217097
180-68096-6 MSD	W2, S1, C 71117	Total/NA	Solid	7471B	217097

General Chemistry

Analysis Batch: 216865

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68096-1	W1, S5, A 71117	Total/NA	Solid	2540G	
180-68096-2	W1, S5, B 71117	Total/NA	Solid	2540G	
180-68096-3	W1, S5, C 71117	Total/NA	Solid	2540G	
180-68096-4	W2, S1, A 71117	Total/NA	Solid	2540G	
180-68096-5	W2, S1, B 71117	Total/NA	Solid	2540G	
180-68096-6	W2, S1, C 71117	Total/NA	Solid	2540G	
180-68096-7	W2, S2, A 71117	Total/NA	Solid	2540G	
180-68096-8	W2, S2, B 71117	Total/NA	Solid	2540G	
180-68096-9	W2, S2, C 71117	Total/NA	Solid	2540G	
180-68096-10	W2, S3, A 71117	Total/NA	Solid	2540G	
180-68096-11	W2, S3, B 71117	Total/NA	Solid	2540G	
180-68096-12	W2, S3, C 71117	Total/NA	Solid	2540G	
180-68096-13	W2, S4, A 71117	Total/NA	Solid	2540G	
180-68096-14	W2, S4, B 71117	Total/NA	Solid	2540G	
180-68096-15	W2, S4, C 71117	Total/NA	Solid	2540G	
180-68096-16	W2, S5 A 71117	Total/NA	Solid	2540G	

General Chemistry (Continued)

Analysis Batch: 216865 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68096-17	W2, S5 B 71117	Total/NA	Solid	2540G	
180-68096-9 DU	W2, S2, C 71117	Total/NA	Solid	2540G	

Analysis Batch: 216870

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68096-18	W2, S5 C 71117	Total/NA	Solid	2540G	
180-68096-19	W3, S1 A 71117	Total/NA	Solid	2540G	
180-68096-20	W3, S1 B 71117	Total/NA	Solid	2540G	
180-68096-21	DUP-3	Total/NA	Solid	2540G	
180-68096-22	DUP-4	Total/NA	Solid	2540G	
180-68096-23	W3, S1, C 71117	Total/NA	Solid	2540G	
180-68096-24	W3, S2, A 71117	Total/NA	Solid	2540G	
180-68096-25	W3, S2, B 71117	Total/NA	Solid	2540G	
180-68096-26	W3, S2, C 71117	Total/NA	Solid	2540G	
180-68096-27	W3, S3, A 71117	Total/NA	Solid	2540G	
180-68096-28	W3, S3, B 71117	Total/NA	Solid	2540G	
180-68096-29	W3, S3, C 71117	Total/NA	Solid	2540G	
180-68096-30	W3, S4, A 71117	Total/NA	Solid	2540G	
180-68096-31	W3, S4, B 71117	Total/NA	Solid	2540G	
180-68096-32	W3, S4, C 71117	Total/NA	Solid	2540G	
180-68096-33	DUP-5	Total/NA	Solid	2540G	
180-68096-34	W3, S5, A 71117	Total/NA	Solid	2540G	
180-68096-35	W3, S5, B 71117	Total/NA	Solid	2540G	
180-68096-36	W3, S5, C 71117	Total/NA	Solid	2540G	
180-68096-18 DU	W2, S5 C 71117	Total/NA	Solid	2540G	
180-68096-28 DU	W3, S3, B 71117	Total/NA	Solid	2540G	

Prep Batch: 216972

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68096-3	W1, S5, C 71117	Total/NA	Solid	9010C	
180-68096-6	W2, S1, C 71117	Total/NA	Solid	9010C	
180-68096-9	W2, S2, C 71117	Total/NA	Solid	9010C	
180-68096-12	W2, S3, C 71117	Total/NA	Solid	9010C	
180-68096-15	W2, S4, C 71117	Total/NA	Solid	9010C	
180-68096-18	W2, S5 C 71117	Total/NA	Solid	9010C	
180-68096-22	DUP-4	Total/NA	Solid	9010C	
180-68096-23	W3, S1, C 71117	Total/NA	Solid	9010C	
180-68096-26	W3, S2, C 71117	Total/NA	Solid	9010C	
180-68096-29	W3, S3, C 71117	Total/NA	Solid	9010C	
180-68096-32	W3, S4, C 71117	Total/NA	Solid	9010C	
180-68096-36	W3, S5, C 71117	Total/NA	Solid	9010C	
MB 180-216972/4-A	Method Blank	Total/NA	Solid	9010C	
HLCS 180-216972/2-A	Lab Control Sample	Total/NA	Solid	9010C	
LCS 180-216972/3-A	Lab Control Sample	Total/NA	Solid	9010C	
LLCS 180-216972/1-A	Lab Control Sample	Total/NA	Solid	9010C	
180-68096-6 MS	W2, S1, C 71117	Total/NA	Solid	9010C	
180-68096-6 MSD	W2, S1, C 71117	Total/NA	Solid	9010C	

Analysis Batch: 217087

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68096-3	W1, S5, C 71117	Total/NA	Solid	9014	216972

General Chemistry (Continued)

Analysis Batch: 217087 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68096-6	W2, S1, C 71117	Total/NA	Solid	9014	216972
180-68096-9	W2, S2, C 71117	Total/NA	Solid	9014	216972
180-68096-12	W2, S3, C 71117	Total/NA	Solid	9014	216972
180-68096-15	W2, S4, C 71117	Total/NA	Solid	9014	216972
180-68096-18	W2, S5 C 71117	Total/NA	Solid	9014	216972
180-68096-22	DUP-4	Total/NA	Solid	9014	216972
180-68096-23	W3, S1, C 71117	Total/NA	Solid	9014	216972
180-68096-26	W3, S2, C 71117	Total/NA	Solid	9014	216972
180-68096-29	W3, S3, C 71117	Total/NA	Solid	9014	216972
180-68096-32	W3, S4, C 71117	Total/NA	Solid	9014	216972
180-68096-36	W3, S5, C 71117	Total/NA	Solid	9014	216972
MB 180-216972/4-A	Method Blank	Total/NA	Solid	9014	216972
HLCS 180-216972/2-A	Lab Control Sample	Total/NA	Solid	9014	216972
LCS 180-216972/3-A	Lab Control Sample	Total/NA	Solid	9014	216972
LLCS 180-216972/1-A	Lab Control Sample	Total/NA	Solid	9014	216972
180-68096-6 MS	W2, S1, C 71117	Total/NA	Solid	9014	216972
180-68096-6 MSD	W2, S1, C 71117	Total/NA	Solid	9014	216972

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Pittsburgh, PA 15238
Phone (412) 963-7058 Fax (412) 963-2468

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

180-68096 Chain of Custody

Client Information	Sampler: Aft AR	Lab PM: Dunlap, David A	No: -38453-8381.1
Client Contact: Ashwin Ranna Aron Krasnopoler	Phone: 4125524758	E-Mail: david.dunlap@testamer	Page 1 of 4
Company: Geosyntec Consultants, Inc.			
Address: Penn Center West One, Suite 402 1 Penn Center West Drive	Due Date Requested:		
City: Pittsburgh	TAT Requested (days): 10 Days 3 day as per Aron Krasnopoler 7/12/17		
State, Zip: PA, 15276	PO #: MN0832B		
Phone:	WO #:		
Email: aranna@geosyntec.com akrasnopoler@geosyntec.com	Project #: 18013464		
Project Name: Former Sperry Remington Site - North IRM	SSOW#:		
Site:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - VOA-Select List	6010C, 7471B, 9014	8082A, 8270D_LL	8260C_LL - VOA-Select List	Total Number of containers	Special Instructions/Note:
Preservation Code:							N	N	N	A		
W1,SS,A 7/11/17	7/11/2017	1015	G	Solid	N	N	X				4	
W1,SS,B 7/11/17	7/11/2017	1020	G	Solid	N	N	X				4	
W1,SS,C 7/11/17	7/11/2017	1025	C	Solid	N	N		X	X		2	
W2,S1,A 7/11/17	7/11/2017	1045	G	Solid	N	Y	X				12	Perform MS/MSD1
W2,S1,B 7/11/17	7/11/2017	1050	G	Solid	N	N	X				4	
W2,S1,C 7/11/17	7/11/2017	1055	C	Solid	N	Y		X	X		6	Perform MS/MSD2
W2,S2,A 7/11/17	7/11/2017	1115	G	Solid	N	N	X				4	
W2,S2,B 7/11/17	7/11/2017	1120	G	Solid	N	N	X				4	
W2,S2,C 7/11/17	7/11/2017	1125	C	Solid	N	N		X	X		2	
W2,S3,A 7/11/17	7/11/2017	1145	G	Solid	N	N	X				4	
W2,S3,B 7/11/17	7/11/2017	1150	G	Solid	N	N	X				4	

Run 1
Run 2

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Alex Ambrosino	7.11.2017 1645	Geosyntec	Dellie Watson	7-12-17 9:10	TAP
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

TestAmerica Pittsburgh
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Pittsburgh, PA 15238
Phone (412) 963-7058 Fax (412) 963-2468

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Alex Ambrosino	Lab PM: Dunlap, David A	Carrier Tracking No(s):	COC No: 180-38453-8381.2
Client Contact: Ashwin Ranna Aron Krasnopoler	Phone: 4125524758	E-Mail: david.dunlap@testamericainc.com		Page: Page 2 of 4
Company: Geosyntec Consultants, Inc.				Job #:
Address: Penn Center West One, Suite 402 1 Penn Center West Drive	Due Due Requested:	Analysis Requested		Preservation Codes:
City: Pittsburgh	TAT Requested (days): 1 Day - 3 days akrasnopoler@geosyntec.com DUP 7/12/17			A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify) Other:
State, Zip: PA, 15276				
Phone:	PO #: MN0832B			
Email: aranna@geosyntec.com akrasnopoler@geosyntec.com	WO #:			
Project Name: Former Sperry Remington Site - North IRM	Project #: 18013464			
Site:	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - VOA-Select List	6010C, 7471B, 9014	8082A, 8270D_LL	8260C_LL - VOA-Select List	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	A		
W2,S3,C 71117	7/11/2017	1155	C	Solid	N	N		X	X		2	Rush
W2,S4,A 71117	7.11.2017	1215	G	Solid	N	N	X				4	
W2,S4,B 71117	7.11.2017	1220	G	Solid	N	N	X				4	
W2,S4,C 71117	7.11.2017	1225	C	Solid	N	N		X	X		2	
W2,S5,A 71117	7.11.2017	1245	G	Solid	N	N	X				4	
W2,S5,B 71117	7.11.2017	1250	G	Solid	N	N	X				4	
W2,S5,C 71117	7.11.2017	1255	C	Solid	N	N		X	X		2	
W3,S1,A 71117	7.11.2017	1315	G	Solid	N	N	X				4	
W3,S2,B 71117	7.11.2017	1320	G	Solid	N	N	X				4	
DUP-3	7.11.2017	—	G	Solid	N	N	X				4	
DUP-4	7.11.2017	—	C	Solid	N	N		X	X		2	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Alex Ambrosino	7.11.2017 1845	Geosyntec	Ashley Walton	7-12-17 9:10	TAT
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

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Pittsburgh, PA 15238
Phone (412) 963-7058 Fax (412) 963-2468

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: AA+AK	Lab PM: Dunlap, David A	Carrier Tracking No(s):	COC No: 180-38453-8381.3
Client Contact: Ashwin Ranna Aron Krasnopoler	Phone: 4125524758	E-Mail: david.dunlap@testamericainc.com		Page: Page 3 of 4
Company: Geosyntec Consultants, Inc.				Job #:
Address: Penn Center West One, Suite 402 1 Penn Center West Drive	Due Date Requested:	Analysis Requested		
City: Pittsburgh	TAT Requested (days): 1 Day, 3 day upon Aron Krasnopoler OK 7/12/17			
State, Zip: PA, 15276	PO #: MN0832B			
Phone:	WO #:			
Email: aranna@geosyntec.com akrasnopoler@geosyntec.com	Project #: 18013464			
Project Name: Former Sperry Remington Site - North IRM	SSOW#:			
Site:				

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - VOA-Select List	6010C, 7471B, 9014	8082A, 8270D_LL	8260C_LL - VOA-Select List	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	A		
W3,S1,C 71117	7.11.2017	1325	C	Solid	N	N		X	X		2	
W3,S2,A 71117	7.11.2017	1345	G	Solid	N	N	X				4	
W3,S2,B 71117	7.11.2017	1350	G	Solid	N	N	X				4	
W3,S2,C 71117	7.11.2017	1355	C	Solid	N	N		X	X		2	
W3,S3,A 71117	7.11.2017	1415	G	Solid	N	N	X				4	
W3,S3,B 71117	7.11.2017	1420	G	Solid	N	N	X				4	
W3,S3,C 71117	7.11.2017	1425	C	Solid	N	N		X	X		2	
W3,S4,A 71117	7.11.2017	1445	G	Solid	N	N	X				4	
W3,S4,B 71117	7.11.2017	1450	G	Solid	N	N	X				4	
W3,S4,C 71117	7.11.2017	1455	C	Solid	N	N		X	X		2	
DUP-5	7.11.2017	—	G	Solid	N	N	X				4	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Alex Ambrosino	7.11.2017 / 1845	Geosyntec	Dallas Watson	7-12-17	TAP
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 9:10	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Page 101 of 103

7/27/2017

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Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: AA, AR	Lab PM: Dunlap, David A	Carrier Tracking No(s):	COC No: 180-38453-8381.4
Client Contact: Ashwin Ranna from kraspopoler	Phone: 412 5524758	E-Mail: david.dunlap@testamericainc.com		Page: Page 4 of 4
Company: Geosyntec Consultants, Inc.				Job #:

Address: Penn Center West One, Suite 402 1 Penn Center West Drive	Due Date Requested:	Analysis Requested	Preservation Codes:
City: Pittsburgh	TAT Requested (days): Pay 3 day rush from kraspopoler PO 7/12/17		A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
State, Zip: PA, 15276			
Phone:	PO #: MN0832B		
Email: aranna@geosyntec.com akraspopler@geosyntec.com	WO #:		Other:
Project Name: Former Sperry Remington Site - North IRM	Project #: 18013464		
Site:	SSOW#:		

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - VOA-Select List	6010C, 7471B, 9014	8082A, 8270D_LL	8260C_LL - VOA-Select List	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	A		
W3,SS, A 7/11/17	7.11.2017	1515	G	Solid	N	N	X				4	Rush
W3,SS, B 7/11/17	7.11.2017	1520	G	Solid	N	N	X				4	
W3,SS, C 7/11/17	7.11.2017	1525	C	Solid	N	N		X	X		2	
Trip Blank	—	—	—	Solid	—					X	2	
Trip Blank	—	—	—	Solid	—					X	2	
				Solid								
				Solid								
				Solid								
				Solid								
				Solid								
				Solid								

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Alex Ambrosino	7.11.2017 1845	Geosyntec	Phillie Watson	7-12-17 9:10	TAP
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 180-68096-1

Login Number: 68096
List Number: 1
Creator: Dunlap, David A

List Source: TestAmerica Pittsburgh

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	False	trip blank
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc. TestAmerica Job ID: 180-68037-1
Project/Site: Former Sperry Remington Site - North IRM

Laboratory: TestAmerica Pittsburgh

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	11182	03-31-18

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
2540G		Solid	Percent Moisture
2540G		Solid	Percent Solids
8270D LL	3541	Solid	1,4-Dioxane

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68037-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-68037-1	DUP2	Solid	07/10/17 00:00	07/11/17 08:30
180-68037-2	WINDROW1, SEC 3, C	Solid	07/10/17 16:15	07/11/17 08:30
180-68037-3	WINDROW1, SEC 3, B	Solid	07/10/17 16:05	07/11/17 08:30
180-68037-4	WINDROW1, SEC 4, C	Solid	07/10/17 16:40	07/11/17 08:30
180-68037-5	DUP1	Solid	07/10/17 00:00	07/11/17 08:30
180-68037-6	WINDROW1, SEC 3, A	Solid	07/10/17 16:00	07/11/17 08:30
180-68037-7	WINDROW1, SEC 4, B	Solid	07/10/17 16:35	07/11/17 08:30
180-68037-8	WINDROW1, SEC 2, C	Solid	07/10/17 14:55	07/11/17 08:30
180-68037-9	WINDROW1, SEC 2, A	Solid	07/10/17 14:45	07/11/17 08:30
180-68037-10	WINDROW1, SEC 1, A	Solid	07/10/17 14:20	07/11/17 08:30
180-68037-11	WINDROW1, SEC 1, C	Solid	07/10/17 14:30	07/11/17 08:30
180-68037-12	WINDROW1, SEC 4, A	Solid	07/10/17 16:30	07/11/17 08:30
180-68037-13	WINDROW1, SEC 2, B	Solid	07/10/17 14:50	07/11/17 08:30
180-68037-14	WINDROW1, SEC 1, B	Solid	07/10/17 14:25	07/11/17 08:30

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68037-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL PIT
8270D LL	Semivolatile Organic Compounds by GC/MS - Low Level	SW846	TAL PIT
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL PIT
6010C	Metals (ICP)	SW846	TAL PIT
7471B	Mercury (CVAA)	SW846	TAL PIT
2540G	SM 2540G	SM22	TAL PIT
9014	Cyanide	SW846	TAL PIT

Protocol References:

SM22 = SM22

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Client Sample ID: DUP2
Date Collected: 07/10/17 00:00
Date Received: 07/11/17 08:30

Lab Sample ID: 180-68037-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216820	07/12/17 12:23	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: DUP2
Date Collected: 07/10/17 00:00
Date Received: 07/11/17 08:30

Lab Sample ID: 180-68037-1
Matrix: Solid
Percent Solids: 88.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	0.5 mL	216675	07/11/17 10:03	MAL	TAL PIT
Total/NA	Analysis	8270D LL		10	1 mL	1 mL	216666	07/11/17 20:02	VVP	TAL PIT
	Instrument ID: CH733									
Total/NA	Prep	3541			15.2 g	20.0 mL	216674	07/11/17 09:57	MAL	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	216716	07/11/17 14:25	CMR	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	216717	07/11/17 14:27	CMR	TAL PIT
Total/NA	Analysis	8082A		1			216665	07/11/17 23:40	JMO	TAL PIT
	Instrument ID: CHGC8									
Total/NA	Prep	3050B			0.99 g	100 mL	216814	07/12/17 11:52	CRM	TAL PIT
Total/NA	Analysis	6010C		1			217031	07/13/17 14:20	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.59 g	100 mL	216844	07/12/17 14:26	RJR	TAL PIT
Total/NA	Analysis	7471B		1			216948	07/13/17 09:21	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.13 g	50 mL	216711	07/11/17 13:12	JAS	TAL PIT
Total/NA	Analysis	9014		1			216832	07/11/17 17:52	JAS	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: WINDROW1, SEC 3, C
Date Collected: 07/10/17 16:15
Date Received: 07/11/17 08:30

Lab Sample ID: 180-68037-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216820	07/12/17 12:23	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: WINDROW1, SEC 3, C
Date Collected: 07/10/17 16:15
Date Received: 07/11/17 08:30

Lab Sample ID: 180-68037-2
Matrix: Solid
Percent Solids: 88.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	0.5 mL	216675	07/11/17 10:03	MAL	TAL PIT
Total/NA	Analysis	8270D LL		10	1 mL	1 mL	216666	07/11/17 21:22	VVP	TAL PIT
	Instrument ID: CH733									
Total/NA	Prep	3541			15.3 g	20.0 mL	216674	07/11/17 09:57	MAL	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	216716	07/11/17 14:25	CMR	TAL PIT

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68037-1

Client Sample ID: WINDROW1, SEC 3, C

Date Collected: 07/10/17 16:15
Date Received: 07/11/17 08:30

Lab Sample ID: 180-68037-2

Matrix: Solid
Percent Solids: 88.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Cleanup	3660B			2 mL	2 mL	216717	07/11/17 14:27	CMR	TAL PIT
Total/NA	Analysis	8082A		1			216665	07/12/17 00:01	JMO	TAL PIT
	Instrument ID: CHGC8									
Total/NA	Prep	3050B			0.99 g	100 mL	216814	07/12/17 11:52	CRM	TAL PIT
Total/NA	Analysis	6010C		1			217031	07/13/17 14:40	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.68 g	100 mL	216844	07/12/17 14:26	RJR	TAL PIT
Total/NA	Analysis	7471B		1			216948	07/13/17 09:27	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.15 g	50 mL	216711	07/11/17 13:12	JAS	TAL PIT
Total/NA	Analysis	9014		1			216832	07/11/17 17:54	JAS	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: WINDROW1, SEC 3, B

Date Collected: 07/10/17 16:05
Date Received: 07/11/17 08:30

Lab Sample ID: 180-68037-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216820	07/12/17 12:23	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: WINDROW1, SEC 3, B

Date Collected: 07/10/17 16:05
Date Received: 07/11/17 08:30

Lab Sample ID: 180-68037-3

Matrix: Solid
Percent Solids: 90.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.4189 g	5 mL	216673	07/11/17 09:23	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	216640	07/11/17 10:49	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: WINDROW1, SEC 4, C

Date Collected: 07/10/17 16:40
Date Received: 07/11/17 08:30

Lab Sample ID: 180-68037-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216820	07/12/17 12:23	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: WINDROW1, SEC 4, C

Lab Sample ID: 180-68037-4
Date Collected: 07/10/17 16:40
Matrix: Solid
Date Received: 07/11/17 08:30
Percent Solids: 89.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	0.5 mL	216675	07/11/17 10:03	MAL	TAL PIT
Total/NA	Analysis	8270D LL		10	1 mL	1 mL	216666	07/11/17 21:48	VVP	TAL PIT
	Instrument ID: CH733									
Total/NA	Prep	3541			15.0 g	20.0 mL	216674	07/11/17 09:57	MAL	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	216716	07/11/17 14:25	CMR	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	216717	07/11/17 14:27	CMR	TAL PIT
Total/NA	Analysis	8082A		1			216665	07/12/17 00:21	JMO	TAL PIT
	Instrument ID: CHGC8									
Total/NA	Prep	3050B			0.91 g	100 mL	216814	07/12/17 11:52	CRM	TAL PIT
Total/NA	Analysis	6010C		1			217031	07/13/17 14:45	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.67 g	100 mL	216844	07/12/17 14:26	RJR	TAL PIT
Total/NA	Analysis	7471B		1			216948	07/13/17 09:29	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.12 g	50 mL	216711	07/11/17 13:12	JAS	TAL PIT
Total/NA	Analysis	9014		1			216832	07/11/17 17:59	JAS	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: DUP1

Lab Sample ID: 180-68037-5
Date Collected: 07/10/17 00:00
Matrix: Solid
Date Received: 07/11/17 08:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216820	07/12/17 12:23	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: DUP1

Lab Sample ID: 180-68037-5
Date Collected: 07/10/17 00:00
Matrix: Solid
Date Received: 07/11/17 08:30
Percent Solids: 88.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.6139 g	5 mL	216673	07/11/17 09:23	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	216640	07/11/17 11:11	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: WINDROW1, SEC 3, A

Lab Sample ID: 180-68037-6
Date Collected: 07/10/17 16:00
Matrix: Solid
Date Received: 07/11/17 08:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216820	07/12/17 12:23	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68037-1

Client Sample ID: WINDROW1, SEC 3, A
Date Collected: 07/10/17 16:00
Date Received: 07/11/17 08:30

Lab Sample ID: 180-68037-6
Matrix: Solid
Percent Solids: 91.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.3575 g	5 mL	216673	07/11/17 09:23	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	216640	07/11/17 11:34	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: WINDROW1, SEC 4, B
Date Collected: 07/10/17 16:35
Date Received: 07/11/17 08:30

Lab Sample ID: 180-68037-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216820	07/12/17 12:23	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: WINDROW1, SEC 4, B
Date Collected: 07/10/17 16:35
Date Received: 07/11/17 08:30

Lab Sample ID: 180-68037-7
Matrix: Solid
Percent Solids: 88.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.7699 g	5 mL	216673	07/11/17 09:23	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	216640	07/11/17 11:56	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: WINDROW1, SEC 2, C
Date Collected: 07/10/17 14:55
Date Received: 07/11/17 08:30

Lab Sample ID: 180-68037-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216820	07/12/17 12:23	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: WINDROW1, SEC 2, C
Date Collected: 07/10/17 14:55
Date Received: 07/11/17 08:30

Lab Sample ID: 180-68037-8
Matrix: Solid
Percent Solids: 89.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	0.5 mL	216675	07/11/17 10:03	MAL	TAL PIT
Total/NA	Analysis	8270D LL		10	1 mL	1 mL	216666	07/11/17 22:15	VVP	TAL PIT
	Instrument ID: CH733									
Total/NA	Prep	3541			15.2 g	20.0 mL	216674	07/11/17 09:59	MAL	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	216716	07/11/17 14:25	CMR	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	216717	07/11/17 14:27	CMR	TAL PIT
Total/NA	Analysis	8082A		1			216665	07/12/17 00:41	JMO	TAL PIT
	Instrument ID: CHGC8									
Total/NA	Prep	3050B			0.96 g	100 mL	216814	07/12/17 11:52	CRM	TAL PIT

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68037-1

Client Sample ID: WINDROW1, SEC 2, C
Date Collected: 07/10/17 14:55
Date Received: 07/11/17 08:30

Lab Sample ID: 180-68037-8
Matrix: Solid
Percent Solids: 89.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	6010C		1			217031	07/13/17 14:50	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.66 g	100 mL	216844	07/12/17 14:26	RJR	TAL PIT
Total/NA	Analysis	7471B		1			216948	07/13/17 09:31	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.06 g	50 mL	216711	07/11/17 13:12	JAS	TAL PIT
Total/NA	Analysis	9014		1			216832	07/11/17 18:01	JAS	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: WINDROW1, SEC 2, A
Date Collected: 07/10/17 14:45
Date Received: 07/11/17 08:30

Lab Sample ID: 180-68037-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216820	07/12/17 12:23	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: WINDROW1, SEC 2, A
Date Collected: 07/10/17 14:45
Date Received: 07/11/17 08:30

Lab Sample ID: 180-68037-9
Matrix: Solid
Percent Solids: 87.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.9784 g	5 mL	216673	07/11/17 09:23	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	216640	07/11/17 12:19	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: WINDROW1, SEC 1, A
Date Collected: 07/10/17 14:20
Date Received: 07/11/17 08:30

Lab Sample ID: 180-68037-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216682	07/11/17 11:08	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: WINDROW1, SEC 1, A
Date Collected: 07/10/17 14:20
Date Received: 07/11/17 08:30

Lab Sample ID: 180-68037-10
Matrix: Solid
Percent Solids: 93.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.7367 g	5 mL	216673	07/11/17 09:23	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	216640	07/11/17 12:41	KLG	TAL PIT
	Instrument ID: CHHP3									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68037-1

Client Sample ID: WINDROW1, SEC 1, C
Date Collected: 07/10/17 14:30
Date Received: 07/11/17 08:30

Lab Sample ID: 180-68037-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216682	07/11/17 11:08	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: WINDROW1, SEC 1, C
Date Collected: 07/10/17 14:30
Date Received: 07/11/17 08:30

Lab Sample ID: 180-68037-11
Matrix: Solid
Percent Solids: 90.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	0.5 mL	216675	07/11/17 10:03	MAL	TAL PIT
Total/NA	Analysis	8270D LL		10	1 mL	1 mL	216666	07/11/17 22:41	VVP	TAL PIT
	Instrument ID: CH733									
Total/NA	Prep	3541			15.0 g	20.0 mL	216674	07/11/17 09:59	MAL	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	216716	07/11/17 14:25	CMR	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	216717	07/11/17 14:27	CMR	TAL PIT
Total/NA	Analysis	8082A		1			216665	07/12/17 01:01	JMO	TAL PIT
	Instrument ID: CHGC8									
Total/NA	Prep	3050B			1.00 g	100 mL	216814	07/12/17 11:52	CRM	TAL PIT
Total/NA	Analysis	6010C		1			217031	07/13/17 14:56	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.59 g	100 mL	216844	07/12/17 14:26	RJR	TAL PIT
Total/NA	Analysis	7471B		1			216948	07/13/17 09:33	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.18 g	50 mL	216711	07/11/17 13:12	JAS	TAL PIT
Total/NA	Analysis	9014		1			216832	07/11/17 18:03	JAS	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: WINDROW1, SEC 4, A
Date Collected: 07/10/17 16:30
Date Received: 07/11/17 08:30

Lab Sample ID: 180-68037-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216682	07/11/17 11:08	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: WINDROW1, SEC 4, A
Date Collected: 07/10/17 16:30
Date Received: 07/11/17 08:30

Lab Sample ID: 180-68037-12
Matrix: Solid
Percent Solids: 86.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.6509 g	5 mL	216673	07/11/17 09:23	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	216640	07/11/17 13:04	KLG	TAL PIT
	Instrument ID: CHHP3									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68037-1

Client Sample ID: WINDROW1, SEC 2, B
Date Collected: 07/10/17 14:50
Date Received: 07/11/17 08:30

Lab Sample ID: 180-68037-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216682	07/11/17 11:08	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: WINDROW1, SEC 2, B
Date Collected: 07/10/17 14:50
Date Received: 07/11/17 08:30

Lab Sample ID: 180-68037-13
Matrix: Solid
Percent Solids: 88.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.5057 g	5 mL	216673	07/11/17 09:23	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	216640	07/11/17 13:26	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: WINDROW1, SEC 1, B
Date Collected: 07/10/17 14:25
Date Received: 07/11/17 08:30

Lab Sample ID: 180-68037-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			216682	07/11/17 11:08	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: WINDROW1, SEC 1, B
Date Collected: 07/10/17 14:25
Date Received: 07/11/17 08:30

Lab Sample ID: 180-68037-14
Matrix: Solid
Percent Solids: 91.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.6307 g	5 mL	216673	07/11/17 09:23	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	216640	07/11/17 13:49	KLG	TAL PIT
	Instrument ID: CHHP3									

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Analyst References:

Lab: TAL PIT

Batch Type: Cleanup

CMR = Carl Reagle

Batch Type: Prep

CRM = Caitlin McEvoy

JAS = Joshua Schmidt

KLG = Kathy Gordon

MAL = Michael Lonzo

RJR = Ron Rosenbaum

Batch Type: Analysis

JAS = Joshua Schmidt

JMO = John Oravec

JTL = Justin Landry

KLG = Kathy Gordon

RJG = Rob Good

RJR = Ron Rosenbaum

VVP = Vincent Piccolino

Client Sample ID: DUP2
Date Collected: 07/10/17 00:00
Date Received: 07/11/17 08:30

Lab Sample ID: 180-68037-1
Matrix: Solid
Percent Solids: 88.5

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.076	0.025	mg/Kg	☼	07/11/17 10:03	07/11/17 20:02	10
Acenaphthylene	**0.46**		0.076	0.026	mg/Kg	☼	07/11/17 10:03	07/11/17 20:02	10
Anthracene	**0.22**	**F1**	0.076	0.028	mg/Kg	☼	07/11/17 10:03	07/11/17 20:02	10
Benzo[a]anthracene	**0.53**		0.076	0.030	mg/Kg	☼	07/11/17 10:03	07/11/17 20:02	10
Benzo[a]pyrene	**0.66**		0.076	0.031	mg/Kg	☼	07/11/17 10:03	07/11/17 20:02	10
Benzo[b]fluoranthene	**0.67**		0.076	0.033	mg/Kg	☼	07/11/17 10:03	07/11/17 20:02	10
Benzo[g,h,i]perylene	**0.55**		0.076	0.033	mg/Kg	☼	07/11/17 10:03	07/11/17 20:02	10
Benzo[k]fluoranthene	**0.23**	**F1**	0.076	0.026	mg/Kg	☼	07/11/17 10:03	07/11/17 20:02	10
Chrysene	**0.60**		0.076	0.029	mg/Kg	☼	07/11/17 10:03	07/11/17 20:02	10
Dibenz(a,h)anthracene	**0.13**		0.076	0.031	mg/Kg	☼	07/11/17 10:03	07/11/17 20:02	10
Dibenzofuran	ND	F1	0.37	0.030	mg/Kg	☼	07/11/17 10:03	07/11/17 20:02	10
2,4-Dinitrotoluene	ND		0.37	0.050	mg/Kg	☼	07/11/17 10:03	07/11/17 20:02	10
1,4-Dioxane	ND		0.75	0.057	mg/Kg	☼	07/11/17 10:03	07/11/17 20:02	10
Fluoranthene	**0.45**	**F1**	0.076	0.030	mg/Kg	☼	07/11/17 10:03	07/11/17 20:02	10
Fluorene	**0.055**	**J**	0.076	0.027	mg/Kg	☼	07/11/17 10:03	07/11/17 20:02	10
Hexachlorobenzene	ND		0.076	0.030	mg/Kg	☼	07/11/17 10:03	07/11/17 20:02	10
Hexachlorobutadiene	ND		0.076	0.024	mg/Kg	☼	07/11/17 10:03	07/11/17 20:02	10
Hexachloroethane	ND		0.37	0.027	mg/Kg	☼	07/11/17 10:03	07/11/17 20:02	10
Indeno[1,2,3-cd]pyrene	**0.39**		0.076	0.029	mg/Kg	☼	07/11/17 10:03	07/11/17 20:02	10
2-Methylphenol	ND		0.37	0.033	mg/Kg	☼	07/11/17 10:03	07/11/17 20:02	10
Methylphenol, 3 & 4	ND		0.37	0.033	mg/Kg	☼	07/11/17 10:03	07/11/17 20:02	10
Naphthalene	**0.098**		0.076	0.027	mg/Kg	☼	07/11/17 10:03	07/11/17 20:02	10
Nitrobenzene	ND	F1	0.75	0.029	mg/Kg	☼	07/11/17 10:03	07/11/17 20:02	10
Pentachlorophenol	ND		1.9	0.71	mg/Kg	☼	07/11/17 10:03	07/11/17 20:02	10
Phenanthrene	**0.21**	**F1**	0.076	0.031	mg/Kg	☼	07/11/17 10:03	07/11/17 20:02	10
Phenol	ND		0.37	0.051	mg/Kg	☼	07/11/17 10:03	07/11/17 20:02	10
Pyrene	**0.81**	**F1**	0.076	0.034	mg/Kg	☼	07/11/17 10:03	07/11/17 20:02	10
Pyridine	ND		0.37	0.036	mg/Kg	☼	07/11/17 10:03	07/11/17 20:02	10
2,4,5-Trichlorophenol	ND		0.37	0.036	mg/Kg	☼	07/11/17 10:03	07/11/17 20:02	10
2,4,6-Trichlorophenol	ND		0.37	0.033	mg/Kg	☼	07/11/17 10:03	07/11/17 20:02	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*43*		*42 - 100*	*07/11/17 10:03*	*07/11/17 20:02*	*10*
2-Fluorophenol (Surr)	*40*		*21 - 107*	*07/11/17 10:03*	*07/11/17 20:02*	*10*
Nitrobenzene-d5 (Surr)	*46*		*35 - 109*	*07/11/17 10:03*	*07/11/17 20:02*	*10*
Phenol-d5 (Surr)	*42*		*29 - 105*	*07/11/17 10:03*	*07/11/17 20:02*	*10*
Terphenyl-d14 (Surr)	*49*		*36 - 113*	*07/11/17 10:03*	*07/11/17 20:02*	*10*
2,4,6-Tribromophenol (Surr)	*36*		*20 - 134*	*07/11/17 10:03*	*07/11/17 20:02*	*10*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.019	0.0099	mg/Kg	☼	07/11/17 09:57	07/11/17 23:40	1
PCB-1221	ND		0.019	0.0096	mg/Kg	☼	07/11/17 09:57	07/11/17 23:40	1
PCB-1232	ND		0.019	0.0074	mg/Kg	☼	07/11/17 09:57	07/11/17 23:40	1
PCB-1242	ND		0.019	0.015	mg/Kg	☼	07/11/17 09:57	07/11/17 23:40	1
PCB-1248	**1.1**		0.019	0.0089	mg/Kg	☼	07/11/17 09:57	07/11/17 23:40	1
PCB-1254	**0.70**		0.019	0.0081	mg/Kg	☼	07/11/17 09:57	07/11/17 23:40	1
PCB-1260	**0.17**		0.019	0.012	mg/Kg	☼	07/11/17 09:57	07/11/17 23:40	1
PCB-1262	ND		0.019	0.013	mg/Kg	☼	07/11/17 09:57	07/11/17 23:40	1
PCB-1268	ND		0.019	0.0057	mg/Kg	☼	07/11/17 09:57	07/11/17 23:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	67		23 - 150	07/11/17 09:57	07/11/17 23:40	1
DCB Decachlorobiphenyl (Surr)	72		23 - 150	07/11/17 09:57	07/11/17 23:40	1
Tetrachloro-m-xylene (Surr)	77		27 - 138	07/11/17 09:57	07/11/17 23:40	1
Tetrachloro-m-xylene (Surr)	69		27 - 138	07/11/17 09:57	07/11/17 23:40	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.0		1.1	0.50	mg/Kg	☼	07/12/17 11:52	07/13/17 14:20	1
Barium	91		23	6.1	mg/Kg	☼	07/12/17 11:52	07/13/17 14:20	1
Beryllium	0.38	J	0.46	0.12	mg/Kg	☼	07/12/17 11:52	07/13/17 14:20	1
Cadmium	0.20	J	0.57	0.13	mg/Kg	☼	07/12/17 11:52	07/13/17 14:20	1
Chromium	11		0.57	0.15	mg/Kg	☼	07/12/17 11:52	07/13/17 14:20	1
Copper	25		2.9	0.88	mg/Kg	☼	07/12/17 11:52	07/13/17 14:20	1
Lead	34		1.1	0.37	mg/Kg	☼	07/12/17 11:52	07/13/17 14:20	1
Manganese	430		1.7	0.46	mg/Kg	☼	07/12/17 11:52	07/13/17 14:20	1
Nickel	20		4.6	1.0	mg/Kg	☼	07/12/17 11:52	07/13/17 14:20	1
Selenium	0.68	J	1.1	0.45	mg/Kg	☼	07/12/17 11:52	07/13/17 14:20	1
Silver	ND		0.57	0.19	mg/Kg	☼	07/12/17 11:52	07/13/17 14:20	1
Zinc	75		2.3	1.2	mg/Kg	☼	07/12/17 11:52	07/13/17 14:20	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.26		0.038	0.0085	mg/Kg	☼	07/12/17 14:26	07/13/17 09:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	11.5		0.1	0.1	%			07/12/17 12:23	1
Percent Solids	88.5		0.1	0.1	%			07/12/17 12:23	1
Cyanide, Total	ND		0.50	0.15	mg/Kg	☼	07/11/17 13:12	07/11/17 17:52	1

Client Sample ID: WINDROW1, SEC 3, C

Lab Sample ID: 180-68037-2
Date Collected: 07/10/17 16:15
Matrix: Solid
Date Received: 07/11/17 08:30
Percent Solids: 88.7

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.076	0.025	mg/Kg	☼	07/11/17 10:03	07/11/17 21:22	10
Acenaphthylene	0.25		0.076	0.026	mg/Kg	☼	07/11/17 10:03	07/11/17 21:22	10
Anthracene	0.18		0.076	0.028	mg/Kg	☼	07/11/17 10:03	07/11/17 21:22	10
Benzo[a]anthracene	0.52		0.076	0.030	mg/Kg	☼	07/11/17 10:03	07/11/17 21:22	10
Benzo[a]pyrene	0.49		0.076	0.031	mg/Kg	☼	07/11/17 10:03	07/11/17 21:22	10
Benzo[b]fluoranthene	0.62		0.076	0.033	mg/Kg	☼	07/11/17 10:03	07/11/17 21:22	10
Benzo[g,h,i]perylene	0.44		0.076	0.033	mg/Kg	☼	07/11/17 10:03	07/11/17 21:22	10
Benzo[k]fluoranthene	0.23		0.076	0.026	mg/Kg	☼	07/11/17 10:03	07/11/17 21:22	10
Chrysene	0.48		0.076	0.029	mg/Kg	☼	07/11/17 10:03	07/11/17 21:22	10
Dibenz(a,h)anthracene	0.098		0.076	0.031	mg/Kg	☼	07/11/17 10:03	07/11/17 21:22	10
Dibenzofuran	0.035	J	0.37	0.030	mg/Kg	☼	07/11/17 10:03	07/11/17 21:22	10
2,4-Dinitrotoluene	ND		0.37	0.050	mg/Kg	☼	07/11/17 10:03	07/11/17 21:22	10
1,4-Dioxane	ND		0.75	0.057	mg/Kg	☼	07/11/17 10:03	07/11/17 21:22	10
Fluoranthene	0.64		0.076	0.030	mg/Kg	☼	07/11/17 10:03	07/11/17 21:22	10
Fluorene	0.039	J	0.076	0.027	mg/Kg	☼	07/11/17 10:03	07/11/17 21:22	10
Hexachlorobenzene	ND		0.076	0.030	mg/Kg	☼	07/11/17 10:03	07/11/17 21:22	10
Hexachlorobutadiene	ND		0.076	0.024	mg/Kg	☼	07/11/17 10:03	07/11/17 21:22	10
Hexachloroethane	ND		0.37	0.027	mg/Kg	☼	07/11/17 10:03	07/11/17 21:22	10
Indeno[1,2,3-cd]pyrene	0.35		0.076	0.029	mg/Kg	☼	07/11/17 10:03	07/11/17 21:22	10

Client Sample ID: WINDROW1, SEC 3, C
Date Collected: 07/10/17 16:15
Date Received: 07/11/17 08:30

Lab Sample ID: 180-68037-2
Matrix: Solid
Percent Solids: 88.7

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	ND		0.37	0.033	mg/Kg	☼	07/11/17 10:03	07/11/17 21:22	10
Methylphenol, 3 & 4	ND		0.37	0.033	mg/Kg	☼	07/11/17 10:03	07/11/17 21:22	10
Naphthalene	**0.12**		0.076	0.027	mg/Kg	☼	07/11/17 10:03	07/11/17 21:22	10
Nitrobenzene	ND		0.75	0.029	mg/Kg	☼	07/11/17 10:03	07/11/17 21:22	10
Pentachlorophenol	ND		1.9	0.71	mg/Kg	☼	07/11/17 10:03	07/11/17 21:22	10
Phenanthrene	**0.39**		0.076	0.031	mg/Kg	☼	07/11/17 10:03	07/11/17 21:22	10
Phenol	ND		0.37	0.051	mg/Kg	☼	07/11/17 10:03	07/11/17 21:22	10
Pyrene	**0.82**		0.076	0.033	mg/Kg	☼	07/11/17 10:03	07/11/17 21:22	10
Pyridine	ND		0.37	0.036	mg/Kg	☼	07/11/17 10:03	07/11/17 21:22	10
2,4,5-Trichlorophenol	ND		0.37	0.036	mg/Kg	☼	07/11/17 10:03	07/11/17 21:22	10
2,4,6-Trichlorophenol	ND		0.37	0.033	mg/Kg	☼	07/11/17 10:03	07/11/17 21:22	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*54*		*42 - 100*	*07/11/17 10:03*	*07/11/17 21:22*	*10*
2-Fluorophenol (Surr)	*53*		*21 - 107*	*07/11/17 10:03*	*07/11/17 21:22*	*10*
Nitrobenzene-d5 (Surr)	*61*		*35 - 109*	*07/11/17 10:03*	*07/11/17 21:22*	*10*
Phenol-d5 (Surr)	*58*		*29 - 105*	*07/11/17 10:03*	*07/11/17 21:22*	*10*
Terphenyl-d14 (Surr)	*60*		*36 - 113*	*07/11/17 10:03*	*07/11/17 21:22*	*10*
2,4,6-Tribromophenol (Surr)	*55*		*20 - 134*	*07/11/17 10:03*	*07/11/17 21:22*	*10*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.018	0.0098	mg/Kg	☼	07/11/17 09:57	07/12/17 00:01	1
PCB-1221	ND		0.018	0.0095	mg/Kg	☼	07/11/17 09:57	07/12/17 00:01	1
PCB-1232	ND		0.018	0.0073	mg/Kg	☼	07/11/17 09:57	07/12/17 00:01	1
PCB-1242	ND		0.018	0.015	mg/Kg	☼	07/11/17 09:57	07/12/17 00:01	1
PCB-1248	**1.0**		0.018	0.0088	mg/Kg	☼	07/11/17 09:57	07/12/17 00:01	1
PCB-1254	**0.67**		0.018	0.0081	mg/Kg	☼	07/11/17 09:57	07/12/17 00:01	1
PCB-1260	**0.17**		0.018	0.012	mg/Kg	☼	07/11/17 09:57	07/12/17 00:01	1
PCB-1262	ND		0.018	0.013	mg/Kg	☼	07/11/17 09:57	07/12/17 00:01	1
PCB-1268	ND		0.018	0.0056	mg/Kg	☼	07/11/17 09:57	07/12/17 00:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*65*		*23 - 150*	*07/11/17 09:57*	*07/12/17 00:01*	*1*
DCB Decachlorobiphenyl (Surr)	*69*		*23 - 150*	*07/11/17 09:57*	*07/12/17 00:01*	*1*
Tetrachloro-m-xylene (Surr)	*73*		*27 - 138*	*07/11/17 09:57*	*07/12/17 00:01*	*1*
Tetrachloro-m-xylene (Surr)	*67*		*27 - 138*	*07/11/17 09:57*	*07/12/17 00:01*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**7.4**		1.1	0.50	mg/Kg	☼	07/12/17 11:52	07/13/17 14:40	1
Barium	**92**		23	6.1	mg/Kg	☼	07/12/17 11:52	07/13/17 14:40	1
Beryllium	**0.40**	**J**	0.46	0.12	mg/Kg	☼	07/12/17 11:52	07/13/17 14:40	1
Cadmium	**0.18**	**J**	0.57	0.13	mg/Kg	☼	07/12/17 11:52	07/13/17 14:40	1
Chromium	**12**		0.57	0.15	mg/Kg	☼	07/12/17 11:52	07/13/17 14:40	1
Copper	**25**		2.8	0.88	mg/Kg	☼	07/12/17 11:52	07/13/17 14:40	1
Lead	**36**		1.1	0.37	mg/Kg	☼	07/12/17 11:52	07/13/17 14:40	1
Manganese	**420**		1.7	0.46	mg/Kg	☼	07/12/17 11:52	07/13/17 14:40	1
Nickel	**20**		4.6	1.0	mg/Kg	☼	07/12/17 11:52	07/13/17 14:40	1
Selenium	ND		1.1	0.45	mg/Kg	☼	07/12/17 11:52	07/13/17 14:40	1

Client Sample ID: WINDROW1, SEC 3, C

Lab Sample ID: 180-68037-2
Date Collected: 07/10/17 16:15
Matrix: Solid
Date Received: 07/11/17 08:30
Percent Solids: 88.7

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.57	0.19	mg/Kg	☼	07/12/17 11:52	07/13/17 14:40	1
Zinc	**75**		2.3	1.2	mg/Kg	☼	07/12/17 11:52	07/13/17 14:40	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.45**		0.033	0.0074	mg/Kg	☼	07/12/17 14:26	07/13/17 09:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**11.3**		0.1	0.1	%			07/12/17 12:23	1
Percent Solids	**88.7**		0.1	0.1	%			07/12/17 12:23	1
Cyanide, Total	**0.19**	**J**	0.49	0.15	mg/Kg	☼	07/11/17 13:12	07/11/17 17:54	1

Client Sample ID: WINDROW1, SEC 3, B

Lab Sample ID: 180-68037-3
Date Collected: 07/10/17 16:05
Matrix: Solid
Date Received: 07/11/17 08:30
Percent Solids: 90.9

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.020	0.0032	mg/Kg	☼	07/11/17 09:23	07/11/17 10:49	1
Benzene	ND		0.0051	0.0020	mg/Kg	☼	07/11/17 09:23	07/11/17 10:49	1
2-Butanone (MEK)	ND		0.0051	0.0029	mg/Kg	☼	07/11/17 09:23	07/11/17 10:49	1
Carbon tetrachloride	ND		0.0051	0.0034	mg/Kg	☼	07/11/17 09:23	07/11/17 10:49	1
Chlorobenzene	ND		0.0051	0.0016	mg/Kg	☼	07/11/17 09:23	07/11/17 10:49	1
Chloroform	ND		0.0051	0.0021	mg/Kg	☼	07/11/17 09:23	07/11/17 10:49	1
cis-1,2-Dichloroethene	ND		0.0051	0.0016	mg/Kg	☼	07/11/17 09:23	07/11/17 10:49	1
1,2-Dichlorobenzene	ND		0.0051	0.0041	mg/Kg	☼	07/11/17 09:23	07/11/17 10:49	1
1,3-Dichlorobenzene	ND		0.0051	0.0016	mg/Kg	☼	07/11/17 09:23	07/11/17 10:49	1
1,4-Dichlorobenzene	ND		0.0051	0.0010	mg/Kg	☼	07/11/17 09:23	07/11/17 10:49	1
1,1-Dichloroethane	ND		0.0051	0.0018	mg/Kg	☼	07/11/17 09:23	07/11/17 10:49	1
1,2-Dichloroethane	ND		0.0051	0.0015	mg/Kg	☼	07/11/17 09:23	07/11/17 10:49	1
1,1-Dichloroethene	ND		0.0051	0.0029	mg/Kg	☼	07/11/17 09:23	07/11/17 10:49	1
Ethylbenzene	ND		0.0051	0.0022	mg/Kg	☼	07/11/17 09:23	07/11/17 10:49	1
Methylene Chloride	ND		0.0051	0.0024	mg/Kg	☼	07/11/17 09:23	07/11/17 10:49	1
Methyl tert-butyl ether	ND		0.0051	0.0037	mg/Kg	☼	07/11/17 09:23	07/11/17 10:49	1
n-Butylbenzene	ND		0.0051	0.0038	mg/Kg	☼	07/11/17 09:23	07/11/17 10:49	1
N-Propylbenzene	ND		0.0051	0.0021	mg/Kg	☼	07/11/17 09:23	07/11/17 10:49	1
sec-Butylbenzene	ND		0.0051	0.0025	mg/Kg	☼	07/11/17 09:23	07/11/17 10:49	1
tert-Butylbenzene	ND		0.0051	0.0019	mg/Kg	☼	07/11/17 09:23	07/11/17 10:49	1
Tetrachloroethene	ND		0.0051	0.0020	mg/Kg	☼	07/11/17 09:23	07/11/17 10:49	1
Toluene	ND		0.0051	0.0017	mg/Kg	☼	07/11/17 09:23	07/11/17 10:49	1
trans-1,2-Dichloroethene	ND		0.0051	0.0026	mg/Kg	☼	07/11/17 09:23	07/11/17 10:49	1
1,1,1-Trichloroethane	ND		0.0051	0.0025	mg/Kg	☼	07/11/17 09:23	07/11/17 10:49	1
Trichloroethene	ND		0.0051	0.0015	mg/Kg	☼	07/11/17 09:23	07/11/17 10:49	1
1,2,4-Trimethylbenzene	ND		0.0051	0.0014	mg/Kg	☼	07/11/17 09:23	07/11/17 10:49	1
1,3,5-Trimethylbenzene	ND		0.0051	0.0017	mg/Kg	☼	07/11/17 09:23	07/11/17 10:49	1
Vinyl chloride	ND		0.0051	0.0037	mg/Kg	☼	07/11/17 09:23	07/11/17 10:49	1
Xylenes, Total	ND		0.010	0.0044	mg/Kg	☼	07/11/17 09:23	07/11/17 10:49	1

Client Sample ID: WINDROW1, SEC 3, B

Lab Sample ID: 180-68037-3
Date Collected: 07/10/17 16:05
Matrix: Solid
Date Received: 07/11/17 08:30
Percent Solids: 90.9

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*63 - 120*	*07/11/17 09:23*	*07/11/17 10:49*	*1*
Dibromofluoromethane (Surr)	*90*		*68 - 121*	*07/11/17 09:23*	*07/11/17 10:49*	*1*
1,2-Dichloroethane-d4 (Surr)	*80*		*52 - 124*	*07/11/17 09:23*	*07/11/17 10:49*	*1*
Toluene-d8 (Surr)	*109*		*72 - 127*	*07/11/17 09:23*	*07/11/17 10:49*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.1**		0.1	0.1	%			07/12/17 12:23	1
Percent Solids	**90.9**		0.1	0.1	%			07/12/17 12:23	1

Client Sample ID: WINDROW1, SEC 4, C

Lab Sample ID: 180-68037-4
Date Collected: 07/10/17 16:40
Matrix: Solid
Date Received: 07/11/17 08:30
Percent Solids: 89.7

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.075	0.025	mg/Kg	☼	07/11/17 10:03	07/11/17 21:48	10
Acenaphthylene	**0.21**		0.075	0.025	mg/Kg	☼	07/11/17 10:03	07/11/17 21:48	10
Anthracene	**0.15**		0.075	0.027	mg/Kg	☼	07/11/17 10:03	07/11/17 21:48	10
Benzo[a]anthracene	**0.33**		0.075	0.029	mg/Kg	☼	07/11/17 10:03	07/11/17 21:48	10
Benzo[a]pyrene	**0.35**		0.075	0.031	mg/Kg	☼	07/11/17 10:03	07/11/17 21:48	10
Benzo[b]fluoranthene	**0.42**		0.075	0.032	mg/Kg	☼	07/11/17 10:03	07/11/17 21:48	10
Benzo[g,h,i]perylene	**0.35**		0.075	0.032	mg/Kg	☼	07/11/17 10:03	07/11/17 21:48	10
Benzo[k]fluoranthene	**0.20**		0.075	0.026	mg/Kg	☼	07/11/17 10:03	07/11/17 21:48	10
Chrysene	**0.33**		0.075	0.029	mg/Kg	☼	07/11/17 10:03	07/11/17 21:48	10
Dibenz(a,h)anthracene	**0.096**		0.075	0.031	mg/Kg	☼	07/11/17 10:03	07/11/17 21:48	10
Dibenzofuran	ND		0.37	0.030	mg/Kg	☼	07/11/17 10:03	07/11/17 21:48	10
2,4-Dinitrotoluene	ND		0.37	0.049	mg/Kg	☼	07/11/17 10:03	07/11/17 21:48	10
1,4-Dioxane	ND		0.74	0.056	mg/Kg	☼	07/11/17 10:03	07/11/17 21:48	10
Fluoranthene	**0.42**		0.075	0.029	mg/Kg	☼	07/11/17 10:03	07/11/17 21:48	10
Fluorene	**0.032**	**J**	0.075	0.026	mg/Kg	☼	07/11/17 10:03	07/11/17 21:48	10
Hexachlorobenzene	ND		0.075	0.030	mg/Kg	☼	07/11/17 10:03	07/11/17 21:48	10
Hexachlorobutadiene	ND		0.075	0.023	mg/Kg	☼	07/11/17 10:03	07/11/17 21:48	10
Hexachloroethane	ND		0.37	0.027	mg/Kg	☼	07/11/17 10:03	07/11/17 21:48	10
Indeno[1,2,3-cd]pyrene	**0.28**		0.075	0.029	mg/Kg	☼	07/11/17 10:03	07/11/17 21:48	10
2-Methylphenol	ND		0.37	0.033	mg/Kg	☼	07/11/17 10:03	07/11/17 21:48	10
Methylphenol, 3 & 4	ND		0.37	0.033	mg/Kg	☼	07/11/17 10:03	07/11/17 21:48	10
Naphthalene	**0.10**		0.075	0.027	mg/Kg	☼	07/11/17 10:03	07/11/17 21:48	10
Nitrobenzene	ND		0.74	0.028	mg/Kg	☼	07/11/17 10:03	07/11/17 21:48	10
Pentachlorophenol	ND		1.9	0.70	mg/Kg	☼	07/11/17 10:03	07/11/17 21:48	10
Phenanthrene	**0.29**		0.075	0.031	mg/Kg	☼	07/11/17 10:03	07/11/17 21:48	10
Phenol	ND		0.37	0.050	mg/Kg	☼	07/11/17 10:03	07/11/17 21:48	10
Pyrene	**0.55**		0.075	0.033	mg/Kg	☼	07/11/17 10:03	07/11/17 21:48	10
Pyridine	ND		0.37	0.036	mg/Kg	☼	07/11/17 10:03	07/11/17 21:48	10
2,4,5-Trichlorophenol	ND		0.37	0.035	mg/Kg	☼	07/11/17 10:03	07/11/17 21:48	10
2,4,6-Trichlorophenol	ND		0.37	0.033	mg/Kg	☼	07/11/17 10:03	07/11/17 21:48	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*45*		*42 - 100*	*07/11/17 10:03*	*07/11/17 21:48*	*10*
2-Fluorophenol (Surr)	*46*		*21 - 107*	*07/11/17 10:03*	*07/11/17 21:48*	*10*
Nitrobenzene-d5 (Surr)	*51*		*35 - 109*	*07/11/17 10:03*	*07/11/17 21:48*	*10*

Client Sample ID: WINDROW1, SEC 4, C
Date Collected: 07/10/17 16:40
Date Received: 07/11/17 08:30

Lab Sample ID: 180-68037-4
Matrix: Solid
Percent Solids: 89.7

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Phenol-d5 (Surr)	*52*		*29 - 105*	*07/11/17 10:03*	*07/11/17 21:48*	*10*
Terphenyl-d14 (Surr)	*52*		*36 - 113*	*07/11/17 10:03*	*07/11/17 21:48*	*10*
2,4,6-Tribromophenol (Surr)	*49*		*20 - 134*	*07/11/17 10:03*	*07/11/17 21:48*	*10*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.019	0.0099	mg/Kg	☼	07/11/17 09:57	07/12/17 00:21	1
PCB-1221	ND		0.019	0.0096	mg/Kg	☼	07/11/17 09:57	07/12/17 00:21	1
PCB-1232	ND		0.019	0.0074	mg/Kg	☼	07/11/17 09:57	07/12/17 00:21	1
PCB-1242	ND		0.019	0.015	mg/Kg	☼	07/11/17 09:57	07/12/17 00:21	1
PCB-1248	**0.91**		0.019	0.0089	mg/Kg	☼	07/11/17 09:57	07/12/17 00:21	1
PCB-1254	**0.60**		0.019	0.0081	mg/Kg	☼	07/11/17 09:57	07/12/17 00:21	1
PCB-1260	**0.17**		0.019	0.012	mg/Kg	☼	07/11/17 09:57	07/12/17 00:21	1
PCB-1262	ND		0.019	0.013	mg/Kg	☼	07/11/17 09:57	07/12/17 00:21	1
PCB-1268	ND		0.019	0.0057	mg/Kg	☼	07/11/17 09:57	07/12/17 00:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	*62*		*23 - 150*	*07/11/17 09:57*	*07/12/17 00:21*	*1*
DCB Decachlorobiphenyl (Surr)	*69*		*23 - 150*	*07/11/17 09:57*	*07/12/17 00:21*	*1*
Tetrachloro-m-xylene (Surr)	*75*		*27 - 138*	*07/11/17 09:57*	*07/12/17 00:21*	*1*
Tetrachloro-m-xylene (Surr)	*70*		*27 - 138*	*07/11/17 09:57*	*07/12/17 00:21*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**7.4**		1.2	0.54	mg/Kg	☼	07/12/17 11:52	07/13/17 14:45	1
Barium	**94**		25	6.6	mg/Kg	☼	07/12/17 11:52	07/13/17 14:45	1
Beryllium	**0.41**	**J**	0.49	0.13	mg/Kg	☼	07/12/17 11:52	07/13/17 14:45	1
Cadmium	**0.17**	**J**	0.61	0.14	mg/Kg	☼	07/12/17 11:52	07/13/17 14:45	1
Chromium	**11**		0.61	0.16	mg/Kg	☼	07/12/17 11:52	07/13/17 14:45	1
Copper	**22**		3.1	0.94	mg/Kg	☼	07/12/17 11:52	07/13/17 14:45	1
Lead	**32**		1.2	0.40	mg/Kg	☼	07/12/17 11:52	07/13/17 14:45	1
Manganese	**440**		1.8	0.50	mg/Kg	☼	07/12/17 11:52	07/13/17 14:45	1
Nickel	**20**		4.9	1.1	mg/Kg	☼	07/12/17 11:52	07/13/17 14:45	1
Selenium	ND		1.2	0.49	mg/Kg	☼	07/12/17 11:52	07/13/17 14:45	1
Silver	ND		0.61	0.20	mg/Kg	☼	07/12/17 11:52	07/13/17 14:45	1
Zinc	**74**		2.5	1.2	mg/Kg	☼	07/12/17 11:52	07/13/17 14:45	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.29**		0.033	0.0074	mg/Kg	☼	07/12/17 14:26	07/13/17 09:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**10.3**		0.1	0.1	%			07/12/17 12:23	1
Percent Solids	**89.7**		0.1	0.1	%			07/12/17 12:23	1
Cyanide, Total	ND		0.50	0.15	mg/Kg	☼	07/11/17 13:12	07/11/17 17:59	1

Client Sample ID: DUP1

Date Collected: 07/10/17 00:00
Date Received: 07/11/17 08:30

Lab Sample ID: 180-68037-5
Matrix: Solid
Percent Solids: 88.8

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.020	0.0032	mg/Kg	☼	07/11/17 09:23	07/11/17 11:11	1
Benzene	ND		0.0050	0.0020	mg/Kg	☼	07/11/17 09:23	07/11/17 11:11	1
2-Butanone (MEK)	ND		0.0050	0.0029	mg/Kg	☼	07/11/17 09:23	07/11/17 11:11	1
Carbon tetrachloride	ND		0.0050	0.0033	mg/Kg	☼	07/11/17 09:23	07/11/17 11:11	1
Chlorobenzene	ND		0.0050	0.0016	mg/Kg	☼	07/11/17 09:23	07/11/17 11:11	1
Chloroform	ND		0.0050	0.0021	mg/Kg	☼	07/11/17 09:23	07/11/17 11:11	1
cis-1,2-Dichloroethene	ND		0.0050	0.0016	mg/Kg	☼	07/11/17 09:23	07/11/17 11:11	1
1,2-Dichlorobenzene	ND		0.0050	0.0040	mg/Kg	☼	07/11/17 09:23	07/11/17 11:11	1
1,3-Dichlorobenzene	ND		0.0050	0.0016	mg/Kg	☼	07/11/17 09:23	07/11/17 11:11	1
1,4-Dichlorobenzene	ND		0.0050	0.0010	mg/Kg	☼	07/11/17 09:23	07/11/17 11:11	1
1,1-Dichloroethane	ND		0.0050	0.0018	mg/Kg	☼	07/11/17 09:23	07/11/17 11:11	1
1,2-Dichloroethane	ND		0.0050	0.0015	mg/Kg	☼	07/11/17 09:23	07/11/17 11:11	1
1,1-Dichloroethene	ND		0.0050	0.0029	mg/Kg	☼	07/11/17 09:23	07/11/17 11:11	1
Ethylbenzene	ND		0.0050	0.0022	mg/Kg	☼	07/11/17 09:23	07/11/17 11:11	1
Methylene Chloride	ND		0.0050	0.0024	mg/Kg	☼	07/11/17 09:23	07/11/17 11:11	1
Methyl tert-butyl ether	ND		0.0050	0.0037	mg/Kg	☼	07/11/17 09:23	07/11/17 11:11	1
n-Butylbenzene	ND		0.0050	0.0038	mg/Kg	☼	07/11/17 09:23	07/11/17 11:11	1
N-Propylbenzene	ND		0.0050	0.0021	mg/Kg	☼	07/11/17 09:23	07/11/17 11:11	1
sec-Butylbenzene	ND		0.0050	0.0024	mg/Kg	☼	07/11/17 09:23	07/11/17 11:11	1
tert-Butylbenzene	ND		0.0050	0.0018	mg/Kg	☼	07/11/17 09:23	07/11/17 11:11	1
Tetrachloroethene	ND		0.0050	0.0020	mg/Kg	☼	07/11/17 09:23	07/11/17 11:11	1
Toluene	ND		0.0050	0.0017	mg/Kg	☼	07/11/17 09:23	07/11/17 11:11	1
trans-1,2-Dichloroethene	ND		0.0050	0.0025	mg/Kg	☼	07/11/17 09:23	07/11/17 11:11	1
1,1,1-Trichloroethane	ND		0.0050	0.0025	mg/Kg	☼	07/11/17 09:23	07/11/17 11:11	1
Trichloroethene	ND		0.0050	0.0015	mg/Kg	☼	07/11/17 09:23	07/11/17 11:11	1
1,2,4-Trimethylbenzene	ND		0.0050	0.0014	mg/Kg	☼	07/11/17 09:23	07/11/17 11:11	1
1,3,5-Trimethylbenzene	ND		0.0050	0.0017	mg/Kg	☼	07/11/17 09:23	07/11/17 11:11	1
Vinyl chloride	ND		0.0050	0.0037	mg/Kg	☼	07/11/17 09:23	07/11/17 11:11	1
Xylenes, Total	ND		0.010	0.0043	mg/Kg	☼	07/11/17 09:23	07/11/17 11:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*63 - 120*	*07/11/17 09:23*	*07/11/17 11:11*	*1*
Dibromofluoromethane (Surr)	*90*		*68 - 121*	*07/11/17 09:23*	*07/11/17 11:11*	*1*
1,2-Dichloroethane-d4 (Surr)	*80*		*52 - 124*	*07/11/17 09:23*	*07/11/17 11:11*	*1*
Toluene-d8 (Surr)	*114*		*72 - 127*	*07/11/17 09:23*	*07/11/17 11:11*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**11.2**		0.1	0.1	%			07/12/17 12:23	1
Percent Solids	**88.8**		0.1	0.1	%			07/12/17 12:23	1

Client Sample ID: WINDROW1, SEC 3, A

Date Collected: 07/10/17 16:00
Date Received: 07/11/17 08:30

Lab Sample ID: 180-68037-6
Matrix: Solid
Percent Solids: 91.9

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.020	0.0032	mg/Kg	☼	07/11/17 09:23	07/11/17 11:34	1
Benzene	ND		0.0051	0.0020	mg/Kg	☼	07/11/17 09:23	07/11/17 11:34	1
2-Butanone (MEK)	ND		0.0051	0.0029	mg/Kg	☼	07/11/17 09:23	07/11/17 11:34	1

Client Sample ID: WINDROW1, SEC 3, A — Lab Sample ID: 180-68037-6

Date Collected: 07/10/17 16:00 — **Matrix: Solid**
Date Received: 07/11/17 08:30 — **Percent Solids: 91.9**

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	ND		0.0051	0.0034	mg/Kg	☼	07/11/17 09:23	07/11/17 11:34	1
Chlorobenzene	ND		0.0051	0.0016	mg/Kg	☼	07/11/17 09:23	07/11/17 11:34	1
Chloroform	ND		0.0051	0.0021	mg/Kg	☼	07/11/17 09:23	07/11/17 11:34	1
cis-1,2-Dichloroethene	ND		0.0051	0.0016	mg/Kg	☼	07/11/17 09:23	07/11/17 11:34	1
1,2-Dichlorobenzene	ND		0.0051	0.0041	mg/Kg	☼	07/11/17 09:23	07/11/17 11:34	1
1,3-Dichlorobenzene	ND		0.0051	0.0016	mg/Kg	☼	07/11/17 09:23	07/11/17 11:34	1
1,4-Dichlorobenzene	ND		0.0051	0.0010	mg/Kg	☼	07/11/17 09:23	07/11/17 11:34	1
1,1-Dichloroethane	ND		0.0051	0.0018	mg/Kg	☼	07/11/17 09:23	07/11/17 11:34	1
1,2-Dichloroethane	ND		0.0051	0.0015	mg/Kg	☼	07/11/17 09:23	07/11/17 11:34	1
1,1-Dichloroethene	ND		0.0051	0.0029	mg/Kg	☼	07/11/17 09:23	07/11/17 11:34	1
Ethylbenzene	ND		0.0051	0.0022	mg/Kg	☼	07/11/17 09:23	07/11/17 11:34	1
Methylene Chloride	ND		0.0051	0.0024	mg/Kg	☼	07/11/17 09:23	07/11/17 11:34	1
Methyl tert-butyl ether	ND		0.0051	0.0037	mg/Kg	☼	07/11/17 09:23	07/11/17 11:34	1
n-Butylbenzene	ND		0.0051	0.0038	mg/Kg	☼	07/11/17 09:23	07/11/17 11:34	1
N-Propylbenzene	ND		0.0051	0.0021	mg/Kg	☼	07/11/17 09:23	07/11/17 11:34	1
sec-Butylbenzene	ND		0.0051	0.0025	mg/Kg	☼	07/11/17 09:23	07/11/17 11:34	1
tert-Butylbenzene	ND		0.0051	0.0019	mg/Kg	☼	07/11/17 09:23	07/11/17 11:34	1
Tetrachloroethene	ND		0.0051	0.0020	mg/Kg	☼	07/11/17 09:23	07/11/17 11:34	1
Toluene	ND		0.0051	0.0017	mg/Kg	☼	07/11/17 09:23	07/11/17 11:34	1
trans-1,2-Dichloroethene	ND		0.0051	0.0026	mg/Kg	☼	07/11/17 09:23	07/11/17 11:34	1
1,1,1-Trichloroethane	ND		0.0051	0.0025	mg/Kg	☼	07/11/17 09:23	07/11/17 11:34	1
Trichloroethene	ND		0.0051	0.0015	mg/Kg	☼	07/11/17 09:23	07/11/17 11:34	1
1,2,4-Trimethylbenzene	ND		0.0051	0.0014	mg/Kg	☼	07/11/17 09:23	07/11/17 11:34	1
1,3,5-Trimethylbenzene	ND		0.0051	0.0017	mg/Kg	☼	07/11/17 09:23	07/11/17 11:34	1
Vinyl chloride	ND		0.0051	0.0037	mg/Kg	☼	07/11/17 09:23	07/11/17 11:34	1
Xylenes, Total	ND		0.010	0.0044	mg/Kg	☼	07/11/17 09:23	07/11/17 11:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*63 - 120*	*07/11/17 09:23*	*07/11/17 11:34*	*1*
Dibromofluoromethane (Surr)	*96*		*68 - 121*	*07/11/17 09:23*	*07/11/17 11:34*	*1*
1,2-Dichloroethane-d4 (Surr)	*87*		*52 - 124*	*07/11/17 09:23*	*07/11/17 11:34*	*1*
Toluene-d8 (Surr)	*119*		*72 - 127*	*07/11/17 09:23*	*07/11/17 11:34*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**8.1**		0.1	0.1	%			07/12/17 12:23	1
Percent Solids	**91.9**		0.1	0.1	%			07/12/17 12:23	1

Client Sample ID: WINDROW1, SEC 4, B — Lab Sample ID: 180-68037-7

Date Collected: 07/10/17 16:35 — **Matrix: Solid**
Date Received: 07/11/17 08:30 — **Percent Solids: 88.9**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.017	0.0026	mg/Kg	☼	07/11/17 09:23	07/11/17 11:56	1
Benzene	ND		0.0042	0.0016	mg/Kg	☼	07/11/17 09:23	07/11/17 11:56	1
2-Butanone (MEK)	ND		0.0042	0.0024	mg/Kg	☼	07/11/17 09:23	07/11/17 11:56	1
Carbon tetrachloride	ND		0.0042	0.0028	mg/Kg	☼	07/11/17 09:23	07/11/17 11:56	1
Chlorobenzene	ND		0.0042	0.0013	mg/Kg	☼	07/11/17 09:23	07/11/17 11:56	1
Chloroform	ND		0.0042	0.0018	mg/Kg	☼	07/11/17 09:23	07/11/17 11:56	1

Client Sample ID: WINDROW1, SEC 4, B — Lab Sample ID: 180-68037-7

Date Collected: 07/10/17 16:35 — **Matrix: Solid**
Date Received: 07/11/17 08:30 — **Percent Solids: 88.9**

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		0.0042	0.0013	mg/Kg	☼	07/11/17 09:23	07/11/17 11:56	1
1,2-Dichlorobenzene	ND		0.0042	0.0033	mg/Kg	☼	07/11/17 09:23	07/11/17 11:56	1
1,3-Dichlorobenzene	ND		0.0042	0.0013	mg/Kg	☼	07/11/17 09:23	07/11/17 11:56	1
1,4-Dichlorobenzene	ND		0.0042	0.00085	mg/Kg	☼	07/11/17 09:23	07/11/17 11:56	1
1,1-Dichloroethane	ND		0.0042	0.0015	mg/Kg	☼	07/11/17 09:23	07/11/17 11:56	1
1,2-Dichloroethane	ND		0.0042	0.0012	mg/Kg	☼	07/11/17 09:23	07/11/17 11:56	1
1,1-Dichloroethene	ND		0.0042	0.0024	mg/Kg	☼	07/11/17 09:23	07/11/17 11:56	1
Ethylbenzene	ND		0.0042	0.0018	mg/Kg	☼	07/11/17 09:23	07/11/17 11:56	1
Methylene Chloride	ND		0.0042	0.0020	mg/Kg	☼	07/11/17 09:23	07/11/17 11:56	1
Methyl tert-butyl ether	ND		0.0042	0.0031	mg/Kg	☼	07/11/17 09:23	07/11/17 11:56	1
n-Butylbenzene	ND		0.0042	0.0031	mg/Kg	☼	07/11/17 09:23	07/11/17 11:56	1
N-Propylbenzene	ND		0.0042	0.0018	mg/Kg	☼	07/11/17 09:23	07/11/17 11:56	1
sec-Butylbenzene	ND		0.0042	0.0020	mg/Kg	☼	07/11/17 09:23	07/11/17 11:56	1
tert-Butylbenzene	ND		0.0042	0.0015	mg/Kg	☼	07/11/17 09:23	07/11/17 11:56	1
Tetrachloroethene	ND		0.0042	0.0017	mg/Kg	☼	07/11/17 09:23	07/11/17 11:56	1
Toluene	ND		0.0042	0.0014	mg/Kg	☼	07/11/17 09:23	07/11/17 11:56	1
trans-1,2-Dichloroethene	ND		0.0042	0.0021	mg/Kg	☼	07/11/17 09:23	07/11/17 11:56	1
1,1,1-Trichloroethane	ND		0.0042	0.0021	mg/Kg	☼	07/11/17 09:23	07/11/17 11:56	1
Trichloroethene	ND		0.0042	0.0012	mg/Kg	☼	07/11/17 09:23	07/11/17 11:56	1
1,2,4-Trimethylbenzene	ND		0.0042	0.0011	mg/Kg	☼	07/11/17 09:23	07/11/17 11:56	1
1,3,5-Trimethylbenzene	ND		0.0042	0.0014	mg/Kg	☼	07/11/17 09:23	07/11/17 11:56	1
Vinyl chloride	ND		0.0042	0.0030	mg/Kg	☼	07/11/17 09:23	07/11/17 11:56	1
Xylenes, Total	ND		0.0083	0.0036	mg/Kg	☼	07/11/17 09:23	07/11/17 11:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*63 - 120*	*07/11/17 09:23*	*07/11/17 11:56*	*1*
Dibromofluoromethane (Surr)	*96*		*68 - 121*	*07/11/17 09:23*	*07/11/17 11:56*	*1*
1,2-Dichloroethane-d4 (Surr)	*89*		*52 - 124*	*07/11/17 09:23*	*07/11/17 11:56*	*1*
Toluene-d8 (Surr)	*119*		*72 - 127*	*07/11/17 09:23*	*07/11/17 11:56*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**11.1**		0.1	0.1	%			07/12/17 12:23	1
Percent Solids	**88.9**		0.1	0.1	%			07/12/17 12:23	1

Client Sample ID: WINDROW1, SEC 2, C — Lab Sample ID: 180-68037-8

Date Collected: 07/10/17 14:55 — **Matrix: Solid**
Date Received: 07/11/17 08:30 — **Percent Solids: 89.4**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.075	0.025	mg/Kg	☼	07/11/17 10:03	07/11/17 22:15	10
Acenaphthylene	**0.21**		0.075	0.025	mg/Kg	☼	07/11/17 10:03	07/11/17 22:15	10
Anthracene	**0.19**		0.075	0.028	mg/Kg	☼	07/11/17 10:03	07/11/17 22:15	10
Benzo[a]anthracene	**0.36**		0.075	0.030	mg/Kg	☼	07/11/17 10:03	07/11/17 22:15	10
Benzo[a]pyrene	**0.37**		0.075	0.031	mg/Kg	☼	07/11/17 10:03	07/11/17 22:15	10
Benzo[b]fluoranthene	**0.45**		0.075	0.032	mg/Kg	☼	07/11/17 10:03	07/11/17 22:15	10
Benzo[g,h,i]perylene	**0.34**		0.075	0.032	mg/Kg	☼	07/11/17 10:03	07/11/17 22:15	10
Benzo[k]fluoranthene	**0.17**		0.075	0.026	mg/Kg	☼	07/11/17 10:03	07/11/17 22:15	10
Chrysene	**0.35**		0.075	0.029	mg/Kg	☼	07/11/17 10:03	07/11/17 22:15	10

Client Sample ID: WINDROW1, SEC 2, C **Lab Sample ID: 180-68037-8**
Date Collected: 07/10/17 14:55 **Matrix: Solid**
Date Received: 07/11/17 08:30 **Percent Solids: 89.4**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	**0.085**		0.075	0.031	mg/Kg	☼	07/11/17 10:03	07/11/17 22:15	10
Dibenzofuran	ND		0.37	0.030	mg/Kg	☼	07/11/17 10:03	07/11/17 22:15	10
2,4-Dinitrotoluene	ND		0.37	0.049	mg/Kg	☼	07/11/17 10:03	07/11/17 22:15	10
1,4-Dioxane	ND		0.75	0.056	mg/Kg	☼	07/11/17 10:03	07/11/17 22:15	10
Fluoranthene	**0.49**		0.075	0.029	mg/Kg	☼	07/11/17 10:03	07/11/17 22:15	10
Fluorene	ND		0.075	0.027	mg/Kg	☼	07/11/17 10:03	07/11/17 22:15	10
Hexachlorobenzene	ND		0.075	0.030	mg/Kg	☼	07/11/17 10:03	07/11/17 22:15	10
Hexachlorobutadiene	ND		0.075	0.024	mg/Kg	☼	07/11/17 10:03	07/11/17 22:15	10
Hexachloroethane	ND		0.37	0.027	mg/Kg	☼	07/11/17 10:03	07/11/17 22:15	10
Indeno[1,2,3-cd]pyrene	**0.27**		0.075	0.029	mg/Kg	☼	07/11/17 10:03	07/11/17 22:15	10
2-Methylphenol	ND		0.37	0.033	mg/Kg	☼	07/11/17 10:03	07/11/17 22:15	10
Methylphenol, 3 & 4	ND		0.37	0.033	mg/Kg	☼	07/11/17 10:03	07/11/17 22:15	10
Naphthalene	**0.081**		0.075	0.027	mg/Kg	☼	07/11/17 10:03	07/11/17 22:15	10
Nitrobenzene	ND		0.75	0.029	mg/Kg	☼	07/11/17 10:03	07/11/17 22:15	10
Pentachlorophenol	ND		1.9	0.71	mg/Kg	☼	07/11/17 10:03	07/11/17 22:15	10
Phenanthrene	**0.33**		0.075	0.031	mg/Kg	☼	07/11/17 10:03	07/11/17 22:15	10
Phenol	ND		0.37	0.050	mg/Kg	☼	07/11/17 10:03	07/11/17 22:15	10
Pyrene	**0.60**		0.075	0.033	mg/Kg	☼	07/11/17 10:03	07/11/17 22:15	10
Pyridine	ND		0.37	0.036	mg/Kg	☼	07/11/17 10:03	07/11/17 22:15	10
2,4,5-Trichlorophenol	ND		0.37	0.035	mg/Kg	☼	07/11/17 10:03	07/11/17 22:15	10
2,4,6-Trichlorophenol	ND		0.37	0.033	mg/Kg	☼	07/11/17 10:03	07/11/17 22:15	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*43*		*42 - 100*	*07/11/17 10:03*	*07/11/17 22:15*	*10*
2-Fluorophenol (Surr)	*44*		*21 - 107*	*07/11/17 10:03*	*07/11/17 22:15*	*10*
Nitrobenzene-d5 (Surr)	*50*		*35 - 109*	*07/11/17 10:03*	*07/11/17 22:15*	*10*
Phenol-d5 (Surr)	*46*		*29 - 105*	*07/11/17 10:03*	*07/11/17 22:15*	*10*
Terphenyl-d14 (Surr)	*50*		*36 - 113*	*07/11/17 10:03*	*07/11/17 22:15*	*10*
2,4,6-Tribromophenol (Surr)	*46*		*20 - 134*	*07/11/17 10:03*	*07/11/17 22:15*	*10*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.018	0.0098	mg/Kg	☼	07/11/17 09:59	07/12/17 00:41	1
PCB-1221	ND		0.018	0.0095	mg/Kg	☼	07/11/17 09:59	07/12/17 00:41	1
PCB-1232	ND		0.018	0.0073	mg/Kg	☼	07/11/17 09:59	07/12/17 00:41	1
PCB-1242	ND		0.018	0.015	mg/Kg	☼	07/11/17 09:59	07/12/17 00:41	1
PCB-1248	**1.1**		0.018	0.0088	mg/Kg	☼	07/11/17 09:59	07/12/17 00:41	1
PCB-1254	**0.68**		0.018	0.0081	mg/Kg	☼	07/11/17 09:59	07/12/17 00:41	1
PCB-1260	**0.18**		0.018	0.012	mg/Kg	☼	07/11/17 09:59	07/12/17 00:41	1
PCB-1262	ND		0.018	0.013	mg/Kg	☼	07/11/17 09:59	07/12/17 00:41	1
PCB-1268	ND		0.018	0.0056	mg/Kg	☼	07/11/17 09:59	07/12/17 00:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*65*		*23 - 150*	*07/11/17 09:59*	*07/12/17 00:41*	*1*
DCB Decachlorobiphenyl (Surr)	*70*		*23 - 150*	*07/11/17 09:59*	*07/12/17 00:41*	*1*
Tetrachloro-m-xylene (Surr)	*77*		*27 - 138*	*07/11/17 09:59*	*07/12/17 00:41*	*1*
Tetrachloro-m-xylene (Surr)	*70*		*27 - 138*	*07/11/17 09:59*	*07/12/17 00:41*	*1*

Client Sample ID: WINDROW1, SEC 2, C

Lab Sample ID: 180-68037-8
Date Collected: 07/10/17 14:55
Matrix: Solid
Date Received: 07/11/17 08:30
Percent Solids: 89.4

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.5		1.2	0.51	mg/Kg	☼	07/12/17 11:52	07/13/17 14:50	1
Barium	83		23	6.3	mg/Kg	☼	07/12/17 11:52	07/13/17 14:50	1
Beryllium	0.37	J	0.47	0.12	mg/Kg	☼	07/12/17 11:52	07/13/17 14:50	1
Cadmium	0.17	J	0.58	0.13	mg/Kg	☼	07/12/17 11:52	07/13/17 14:50	1
Chromium	10		0.58	0.15	mg/Kg	☼	07/12/17 11:52	07/13/17 14:50	1
Copper	23		2.9	0.90	mg/Kg	☼	07/12/17 11:52	07/13/17 14:50	1
Lead	31		1.2	0.38	mg/Kg	☼	07/12/17 11:52	07/13/17 14:50	1
Manganese	430		1.7	0.47	mg/Kg	☼	07/12/17 11:52	07/13/17 14:50	1
Nickel	18		4.7	1.0	mg/Kg	☼	07/12/17 11:52	07/13/17 14:50	1
Selenium	0.56	J	1.2	0.46	mg/Kg	☼	07/12/17 11:52	07/13/17 14:50	1
Silver	ND		0.58	0.19	mg/Kg	☼	07/12/17 11:52	07/13/17 14:50	1
Zinc	67		2.3	1.2	mg/Kg	☼	07/12/17 11:52	07/13/17 14:50	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.30		0.034	0.0075	mg/Kg	☼	07/12/17 14:26	07/13/17 09:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	10.6		0.1	0.1	%			07/12/17 12:23	1
Percent Solids	89.4		0.1	0.1	%			07/12/17 12:23	1
Cyanide, Total	ND		0.53	0.16	mg/Kg	☼	07/11/17 13:12	07/11/17 18:01	1

Client Sample ID: WINDROW1, SEC 2, A

Lab Sample ID: 180-68037-9
Date Collected: 07/10/17 14:45
Matrix: Solid
Date Received: 07/11/17 08:30
Percent Solids: 87.5

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.023	0.0036	mg/Kg	☼	07/11/17 09:23	07/11/17 12:19	1
Benzene	ND		0.0057	0.0023	mg/Kg	☼	07/11/17 09:23	07/11/17 12:19	1
2-Butanone (MEK)	ND		0.0057	0.0033	mg/Kg	☼	07/11/17 09:23	07/11/17 12:19	1
Carbon tetrachloride	ND		0.0057	0.0038	mg/Kg	☼	07/11/17 09:23	07/11/17 12:19	1
Chlorobenzene	ND		0.0057	0.0018	mg/Kg	☼	07/11/17 09:23	07/11/17 12:19	1
Chloroform	ND		0.0057	0.0024	mg/Kg	☼	07/11/17 09:23	07/11/17 12:19	1
cis-1,2-Dichloroethene	ND		0.0057	0.0018	mg/Kg	☼	07/11/17 09:23	07/11/17 12:19	1
1,2-Dichlorobenzene	ND		0.0057	0.0046	mg/Kg	☼	07/11/17 09:23	07/11/17 12:19	1
1,3-Dichlorobenzene	ND		0.0057	0.0018	mg/Kg	☼	07/11/17 09:23	07/11/17 12:19	1
1,4-Dichlorobenzene	ND		0.0057	0.0012	mg/Kg	☼	07/11/17 09:23	07/11/17 12:19	1
1,1-Dichloroethane	ND		0.0057	0.0021	mg/Kg	☼	07/11/17 09:23	07/11/17 12:19	1
1,2-Dichloroethane	ND		0.0057	0.0017	mg/Kg	☼	07/11/17 09:23	07/11/17 12:19	1
1,1-Dichloroethene	ND		0.0057	0.0033	mg/Kg	☼	07/11/17 09:23	07/11/17 12:19	1
Ethylbenzene	ND		0.0057	0.0025	mg/Kg	☼	07/11/17 09:23	07/11/17 12:19	1
Methylene Chloride	ND		0.0057	0.0027	mg/Kg	☼	07/11/17 09:23	07/11/17 12:19	1
Methyl tert-butyl ether	ND		0.0057	0.0042	mg/Kg	☼	07/11/17 09:23	07/11/17 12:19	1
n-Butylbenzene	ND		0.0057	0.0044	mg/Kg	☼	07/11/17 09:23	07/11/17 12:19	1
N-Propylbenzene	ND		0.0057	0.0024	mg/Kg	☼	07/11/17 09:23	07/11/17 12:19	1
sec-Butylbenzene	ND		0.0057	0.0028	mg/Kg	☼	07/11/17 09:23	07/11/17 12:19	1
tert-Butylbenzene	ND		0.0057	0.0021	mg/Kg	☼	07/11/17 09:23	07/11/17 12:19	1
Tetrachloroethene	ND		0.0057	0.0023	mg/Kg	☼	07/11/17 09:23	07/11/17 12:19	1

Client Sample ID: WINDROW1, SEC 2, A

Lab Sample ID: 180-68037-9

Date Collected: 07/10/17 14:45
Matrix: Solid
Date Received: 07/11/17 08:30
Percent Solids: 87.5

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		0.0057	0.0019	mg/Kg	☼	07/11/17 09:23	07/11/17 12:19	1
trans-1,2-Dichloroethene	ND		0.0057	0.0029	mg/Kg	☼	07/11/17 09:23	07/11/17 12:19	1
1,1,1-Trichloroethane	ND		0.0057	0.0029	mg/Kg	☼	07/11/17 09:23	07/11/17 12:19	1
Trichloroethene	ND		0.0057	0.0017	mg/Kg	☼	07/11/17 09:23	07/11/17 12:19	1
1,2,4-Trimethylbenzene	ND		0.0057	0.0015	mg/Kg	☼	07/11/17 09:23	07/11/17 12:19	1
1,3,5-Trimethylbenzene	ND		0.0057	0.0020	mg/Kg	☼	07/11/17 09:23	07/11/17 12:19	1
Vinyl chloride	ND		0.0057	0.0042	mg/Kg	☼	07/11/17 09:23	07/11/17 12:19	1
Xylenes, Total	ND		0.011	0.0049	mg/Kg	☼	07/11/17 09:23	07/11/17 12:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*63 - 120*	*07/11/17 09:23*	*07/11/17 12:19*	*1*
Dibromofluoromethane (Surr)	*91*		*68 - 121*	*07/11/17 09:23*	*07/11/17 12:19*	*1*
1,2-Dichloroethane-d4 (Surr)	*84*		*52 - 124*	*07/11/17 09:23*	*07/11/17 12:19*	*1*
Toluene-d8 (Surr)	*116*		*72 - 127*	*07/11/17 09:23*	*07/11/17 12:19*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**12.5**		0.1	0.1	%			07/12/17 12:23	1
Percent Solids	**87.5**		0.1	0.1	%			07/12/17 12:23	1

Client Sample ID: WINDROW1, SEC 1, A

Lab Sample ID: 180-68037-10

Date Collected: 07/10/17 14:20
Matrix: Solid
Date Received: 07/11/17 08:30
Percent Solids: 93.5

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.023	0.0036	mg/Kg	☼	07/11/17 09:23	07/11/17 12:41	1
Benzene	ND		0.0056	0.0022	mg/Kg	☼	07/11/17 09:23	07/11/17 12:41	1
2-Butanone (MEK)	ND		0.0056	0.0033	mg/Kg	☼	07/11/17 09:23	07/11/17 12:41	1
Carbon tetrachloride	ND		0.0056	0.0037	mg/Kg	☼	07/11/17 09:23	07/11/17 12:41	1
Chlorobenzene	ND		0.0056	0.0018	mg/Kg	☼	07/11/17 09:23	07/11/17 12:41	1
Chloroform	ND		0.0056	0.0024	mg/Kg	☼	07/11/17 09:23	07/11/17 12:41	1
cis-1,2-Dichloroethene	ND		0.0056	0.0018	mg/Kg	☼	07/11/17 09:23	07/11/17 12:41	1
1,2-Dichlorobenzene	ND		0.0056	0.0045	mg/Kg	☼	07/11/17 09:23	07/11/17 12:41	1
1,3-Dichlorobenzene	ND		0.0056	0.0018	mg/Kg	☼	07/11/17 09:23	07/11/17 12:41	1
1,4-Dichlorobenzene	ND		0.0056	0.0012	mg/Kg	☼	07/11/17 09:23	07/11/17 12:41	1
1,1-Dichloroethane	ND		0.0056	0.0020	mg/Kg	☼	07/11/17 09:23	07/11/17 12:41	1
1,2-Dichloroethane	ND		0.0056	0.0016	mg/Kg	☼	07/11/17 09:23	07/11/17 12:41	1
1,1-Dichloroethene	ND		0.0056	0.0032	mg/Kg	☼	07/11/17 09:23	07/11/17 12:41	1
Ethylbenzene	ND		0.0056	0.0024	mg/Kg	☼	07/11/17 09:23	07/11/17 12:41	1
Methylene Chloride	ND		0.0056	0.0027	mg/Kg	☼	07/11/17 09:23	07/11/17 12:41	1
Methyl tert-butyl ether	ND		0.0056	0.0042	mg/Kg	☼	07/11/17 09:23	07/11/17 12:41	1
n-Butylbenzene	ND		0.0056	0.0043	mg/Kg	☼	07/11/17 09:23	07/11/17 12:41	1
N-Propylbenzene	ND		0.0056	0.0024	mg/Kg	☼	07/11/17 09:23	07/11/17 12:41	1
sec-Butylbenzene	ND		0.0056	0.0028	mg/Kg	☼	07/11/17 09:23	07/11/17 12:41	1
tert-Butylbenzene	ND		0.0056	0.0021	mg/Kg	☼	07/11/17 09:23	07/11/17 12:41	1
Tetrachloroethene	ND		0.0056	0.0023	mg/Kg	☼	07/11/17 09:23	07/11/17 12:41	1
Toluene	ND		0.0056	0.0019	mg/Kg	☼	07/11/17 09:23	07/11/17 12:41	1
trans-1,2-Dichloroethene	ND		0.0056	0.0029	mg/Kg	☼	07/11/17 09:23	07/11/17 12:41	1
1,1,1-Trichloroethane	ND		0.0056	0.0028	mg/Kg	☼	07/11/17 09:23	07/11/17 12:41	1

Client Sample ID: WINDROW1, SEC 1, A

Lab Sample ID: 180-68037-10
Date Collected: 07/10/17 14:20
Matrix: Solid
Date Received: 07/11/17 08:30
Percent Solids: 93.5

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	ND		0.0056	0.0017	mg/Kg	☼	07/11/17 09:23	07/11/17 12:41	1
1,2,4-Trimethylbenzene	ND		0.0056	0.0015	mg/Kg	☼	07/11/17 09:23	07/11/17 12:41	1
1,3,5-Trimethylbenzene	ND		0.0056	0.0019	mg/Kg	☼	07/11/17 09:23	07/11/17 12:41	1
Vinyl chloride	ND		0.0056	0.0041	mg/Kg	☼	07/11/17 09:23	07/11/17 12:41	1
Xylenes, Total	ND		0.011	0.0049	mg/Kg	☼	07/11/17 09:23	07/11/17 12:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*63 - 120*	*07/11/17 09:23*	*07/11/17 12:41*	*1*
Dibromofluoromethane (Surr)	*96*		*68 - 121*	*07/11/17 09:23*	*07/11/17 12:41*	*1*
1,2-Dichloroethane-d4 (Surr)	*87*		*52 - 124*	*07/11/17 09:23*	*07/11/17 12:41*	*1*
Toluene-d8 (Surr)	*117*		*72 - 127*	*07/11/17 09:23*	*07/11/17 12:41*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**6.5**		0.1	0.1	%			07/11/17 11:08	1
Percent Solids	**93.5**		0.1	0.1	%			07/11/17 11:08	1

Client Sample ID: WINDROW1, SEC 1, C

Lab Sample ID: 180-68037-11
Date Collected: 07/10/17 14:30
Matrix: Solid
Date Received: 07/11/17 08:30
Percent Solids: 90.6

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.074	0.025	mg/Kg	☼	07/11/17 10:03	07/11/17 22:41	10
Acenaphthylene	**0.28**		0.074	0.025	mg/Kg	☼	07/11/17 10:03	07/11/17 22:41	10
Anthracene	**0.18**		0.074	0.027	mg/Kg	☼	07/11/17 10:03	07/11/17 22:41	10
Benzo[a]anthracene	**0.39**		0.074	0.029	mg/Kg	☼	07/11/17 10:03	07/11/17 22:41	10
Benzo[a]pyrene	**0.39**		0.074	0.030	mg/Kg	☼	07/11/17 10:03	07/11/17 22:41	10
Benzo[b]fluoranthene	**0.48**		0.074	0.032	mg/Kg	☼	07/11/17 10:03	07/11/17 22:41	10
Benzo[g,h,i]perylene	**0.36**		0.074	0.032	mg/Kg	☼	07/11/17 10:03	07/11/17 22:41	10
Benzo[k]fluoranthene	**0.18**		0.074	0.025	mg/Kg	☼	07/11/17 10:03	07/11/17 22:41	10
Chrysene	**0.44**		0.074	0.029	mg/Kg	☼	07/11/17 10:03	07/11/17 22:41	10
Dibenz(a,h)anthracene	**0.089**		0.074	0.030	mg/Kg	☼	07/11/17 10:03	07/11/17 22:41	10
Dibenzofuran	ND		0.36	0.029	mg/Kg	☼	07/11/17 10:03	07/11/17 22:41	10
2,4-Dinitrotoluene	**0.42**		0.36	0.049	mg/Kg	☼	07/11/17 10:03	07/11/17 22:41	10
1,4-Dioxane	ND		0.74	0.055	mg/Kg	☼	07/11/17 10:03	07/11/17 22:41	10
Fluoranthene	**0.42**		0.074	0.029	mg/Kg	☼	07/11/17 10:03	07/11/17 22:41	10
Fluorene	**0.036**	**J**	0.074	0.026	mg/Kg	☼	07/11/17 10:03	07/11/17 22:41	10
Hexachlorobenzene	ND		0.074	0.030	mg/Kg	☼	07/11/17 10:03	07/11/17 22:41	10
Hexachlorobutadiene	ND		0.074	0.023	mg/Kg	☼	07/11/17 10:03	07/11/17 22:41	10
Hexachloroethane	ND		0.36	0.026	mg/Kg	☼	07/11/17 10:03	07/11/17 22:41	10
Indeno[1,2,3-cd]pyrene	**0.29**		0.074	0.028	mg/Kg	☼	07/11/17 10:03	07/11/17 22:41	10
2-Methylphenol	ND		0.36	0.033	mg/Kg	☼	07/11/17 10:03	07/11/17 22:41	10
Methylphenol, 3 & 4	ND		0.36	0.033	mg/Kg	☼	07/11/17 10:03	07/11/17 22:41	10
Naphthalene	**0.098**		0.074	0.026	mg/Kg	☼	07/11/17 10:03	07/11/17 22:41	10
Nitrobenzene	ND		0.74	0.028	mg/Kg	☼	07/11/17 10:03	07/11/17 22:41	10
Pentachlorophenol	ND		1.9	0.70	mg/Kg	☼	07/11/17 10:03	07/11/17 22:41	10
Phenanthrene	**0.26**		0.074	0.031	mg/Kg	☼	07/11/17 10:03	07/11/17 22:41	10
Phenol	ND		0.36	0.050	mg/Kg	☼	07/11/17 10:03	07/11/17 22:41	10
Pyrene	**0.64**		0.074	0.033	mg/Kg	☼	07/11/17 10:03	07/11/17 22:41	10

Client Sample ID: WINDROW1, SEC 1, C **Lab Sample ID: 180-68037-11**
Date Collected: 07/10/17 14:30 **Matrix: Solid**
Date Received: 07/11/17 08:30 **Percent Solids: 90.6**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyridine	ND		0.36	0.035	mg/Kg	☼	07/11/17 10:03	07/11/17 22:41	10
2,4,5-Trichlorophenol	ND		0.36	0.035	mg/Kg	☼	07/11/17 10:03	07/11/17 22:41	10
2,4,6-Trichlorophenol	ND		0.36	0.032	mg/Kg	☼	07/11/17 10:03	07/11/17 22:41	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*53*		*42 - 100*	*07/11/17 10:03*	*07/11/17 22:41*	*10*
2-Fluorophenol (Surr)	*54*		*21 - 107*	*07/11/17 10:03*	*07/11/17 22:41*	*10*
Nitrobenzene-d5 (Surr)	*63*		*35 - 109*	*07/11/17 10:03*	*07/11/17 22:41*	*10*
Phenol-d5 (Surr)	*57*		*29 - 105*	*07/11/17 10:03*	*07/11/17 22:41*	*10*
Terphenyl-d14 (Surr)	*61*		*36 - 113*	*07/11/17 10:03*	*07/11/17 22:41*	*10*
2,4,6-Tribromophenol (Surr)	*61*		*20 - 134*	*07/11/17 10:03*	*07/11/17 22:41*	*10*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.018	0.0098	mg/Kg	☼	07/11/17 09:59	07/12/17 01:01	1
PCB-1221	ND		0.018	0.0095	mg/Kg	☼	07/11/17 09:59	07/12/17 01:01	1
PCB-1232	ND		0.018	0.0073	mg/Kg	☼	07/11/17 09:59	07/12/17 01:01	1
PCB-1242	ND		0.018	0.015	mg/Kg	☼	07/11/17 09:59	07/12/17 01:01	1
PCB-1248	**1.3**		0.018	0.0088	mg/Kg	☼	07/11/17 09:59	07/12/17 01:01	1
PCB-1254	**0.82**		0.018	0.0081	mg/Kg	☼	07/11/17 09:59	07/12/17 01:01	1
PCB-1260	**0.22**		0.018	0.012	mg/Kg	☼	07/11/17 09:59	07/12/17 01:01	1
PCB-1262	ND		0.018	0.013	mg/Kg	☼	07/11/17 09:59	07/12/17 01:01	1
PCB-1268	ND		0.018	0.0056	mg/Kg	☼	07/11/17 09:59	07/12/17 01:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*67*		*23 - 150*	*07/11/17 09:59*	*07/12/17 01:01*	*1*
DCB Decachlorobiphenyl (Surr)	*72*		*23 - 150*	*07/11/17 09:59*	*07/12/17 01:01*	*1*
Tetrachloro-m-xylene (Surr)	*74*		*27 - 138*	*07/11/17 09:59*	*07/12/17 01:01*	*1*
Tetrachloro-m-xylene (Surr)	*68*		*27 - 138*	*07/11/17 09:59*	*07/12/17 01:01*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**6.5**		1.1	0.49	mg/Kg	☼	07/12/17 11:52	07/13/17 14:56	1
Barium	**76**		22	5.9	mg/Kg	☼	07/12/17 11:52	07/13/17 14:56	1
Beryllium	**0.36**	**J**	0.44	0.12	mg/Kg	☼	07/12/17 11:52	07/13/17 14:56	1
Cadmium	**0.15**	**J**	0.55	0.12	mg/Kg	☼	07/12/17 11:52	07/13/17 14:56	1
Chromium	**9.6**		0.55	0.14	mg/Kg	☼	07/12/17 11:52	07/13/17 14:56	1
Copper	**21**		2.8	0.85	mg/Kg	☼	07/12/17 11:52	07/13/17 14:56	1
Lead	**31**		1.1	0.36	mg/Kg	☼	07/12/17 11:52	07/13/17 14:56	1
Manganese	**400**		1.7	0.45	mg/Kg	☼	07/12/17 11:52	07/13/17 14:56	1
Nickel	**19**		4.4	0.99	mg/Kg	☼	07/12/17 11:52	07/13/17 14:56	1
Selenium	ND		1.1	0.44	mg/Kg	☼	07/12/17 11:52	07/13/17 14:56	1
Silver	ND		0.55	0.18	mg/Kg	☼	07/12/17 11:52	07/13/17 14:56	1
Zinc	**66**		2.2	1.1	mg/Kg	☼	07/12/17 11:52	07/13/17 14:56	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.26**		0.037	0.0083	mg/Kg	☼	07/12/17 14:26	07/13/17 09:33	1

Client Sample ID: WINDROW1, SEC 1, C — Lab Sample ID: 180-68037-11

Date Collected: 07/10/17 14:30 — **Matrix: Solid**
Date Received: 07/11/17 08:30 — **Percent Solids: 90.6**

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.4**		0.1	0.1	%			07/11/17 11:08	1
Percent Solids	**90.6**		0.1	0.1	%			07/11/17 11:08	1
Cyanide, Total	ND		0.47	0.14	mg/Kg	☼	07/11/17 13:12	07/11/17 18:03	1

Client Sample ID: WINDROW1, SEC 4, A — Lab Sample ID: 180-68037-12

Date Collected: 07/10/17 16:30 — **Matrix: Solid**
Date Received: 07/11/17 08:30 — **Percent Solids: 86.9**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.020	0.0032	mg/Kg	☼	07/11/17 09:23	07/11/17 13:04	1
Benzene	ND		0.0051	0.0020	mg/Kg	☼	07/11/17 09:23	07/11/17 13:04	1
2-Butanone (MEK)	ND		0.0051	0.0030	mg/Kg	☼	07/11/17 09:23	07/11/17 13:04	1
Carbon tetrachloride	ND		0.0051	0.0034	mg/Kg	☼	07/11/17 09:23	07/11/17 13:04	1
Chlorobenzene	ND		0.0051	0.0016	mg/Kg	☼	07/11/17 09:23	07/11/17 13:04	1
Chloroform	ND		0.0051	0.0022	mg/Kg	☼	07/11/17 09:23	07/11/17 13:04	1
cis-1,2-Dichloroethene	ND		0.0051	0.0016	mg/Kg	☼	07/11/17 09:23	07/11/17 13:04	1
1,2-Dichlorobenzene	ND		0.0051	0.0041	mg/Kg	☼	07/11/17 09:23	07/11/17 13:04	1
1,3-Dichlorobenzene	ND		0.0051	0.0016	mg/Kg	☼	07/11/17 09:23	07/11/17 13:04	1
1,4-Dichlorobenzene	ND		0.0051	0.0010	mg/Kg	☼	07/11/17 09:23	07/11/17 13:04	1
1,1-Dichloroethane	ND		0.0051	0.0018	mg/Kg	☼	07/11/17 09:23	07/11/17 13:04	1
1,2-Dichloroethane	ND		0.0051	0.0015	mg/Kg	☼	07/11/17 09:23	07/11/17 13:04	1
1,1-Dichloroethene	ND		0.0051	0.0029	mg/Kg	☼	07/11/17 09:23	07/11/17 13:04	1
Ethylbenzene	ND		0.0051	0.0022	mg/Kg	☼	07/11/17 09:23	07/11/17 13:04	1
Methylene Chloride	ND		0.0051	0.0024	mg/Kg	☼	07/11/17 09:23	07/11/17 13:04	1
Methyl tert-butyl ether	ND		0.0051	0.0038	mg/Kg	☼	07/11/17 09:23	07/11/17 13:04	1
n-Butylbenzene	ND		0.0051	0.0039	mg/Kg	☼	07/11/17 09:23	07/11/17 13:04	1
N-Propylbenzene	ND		0.0051	0.0021	mg/Kg	☼	07/11/17 09:23	07/11/17 13:04	1
sec-Butylbenzene	ND		0.0051	0.0025	mg/Kg	☼	07/11/17 09:23	07/11/17 13:04	1
tert-Butylbenzene	ND		0.0051	0.0019	mg/Kg	☼	07/11/17 09:23	07/11/17 13:04	1
Tetrachloroethene	ND		0.0051	0.0020	mg/Kg	☼	07/11/17 09:23	07/11/17 13:04	1
Toluene	ND		0.0051	0.0017	mg/Kg	☼	07/11/17 09:23	07/11/17 13:04	1
trans-1,2-Dichloroethene	ND		0.0051	0.0026	mg/Kg	☼	07/11/17 09:23	07/11/17 13:04	1
1,1,1-Trichloroethane	ND		0.0051	0.0026	mg/Kg	☼	07/11/17 09:23	07/11/17 13:04	1
Trichloroethene	ND		0.0051	0.0015	mg/Kg	☼	07/11/17 09:23	07/11/17 13:04	1
1,2,4-Trimethylbenzene	ND		0.0051	0.0014	mg/Kg	☼	07/11/17 09:23	07/11/17 13:04	1
1,3,5-Trimethylbenzene	ND		0.0051	0.0018	mg/Kg	☼	07/11/17 09:23	07/11/17 13:04	1
Vinyl chloride	ND		0.0051	0.0037	mg/Kg	☼	07/11/17 09:23	07/11/17 13:04	1
Xylenes, Total	ND		0.010	0.0044	mg/Kg	☼	07/11/17 09:23	07/11/17 13:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*63 - 120*	*07/11/17 09:23*	*07/11/17 13:04*	*1*
Dibromofluoromethane (Surr)	*95*		*68 - 121*	*07/11/17 09:23*	*07/11/17 13:04*	*1*
1,2-Dichloroethane-d4 (Surr)	*88*		*52 - 124*	*07/11/17 09:23*	*07/11/17 13:04*	*1*
Toluene-d8 (Surr)	*117*		*72 - 127*	*07/11/17 09:23*	*07/11/17 13:04*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**13.1**		0.1	0.1	%			07/11/17 11:08	1
Percent Solids	**86.9**		0.1	0.1	%			07/11/17 11:08	1

Client Sample ID: WINDROW1, SEC 2, B — Lab Sample ID: 180-68037-13

Date Collected: 07/10/17 14:50 — **Matrix: Solid**
Date Received: 07/11/17 08:30 — **Percent Solids: 88.1**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.021	0.0032	mg/Kg	☼	07/11/17 09:23	07/11/17 13:26	1
Benzene	ND		0.0052	0.0020	mg/Kg	☼	07/11/17 09:23	07/11/17 13:26	1
2-Butanone (MEK)	ND		0.0052	0.0030	mg/Kg	☼	07/11/17 09:23	07/11/17 13:26	1
Carbon tetrachloride	ND		0.0052	0.0034	mg/Kg	☼	07/11/17 09:23	07/11/17 13:26	1
Chlorobenzene	ND		0.0052	0.0016	mg/Kg	☼	07/11/17 09:23	07/11/17 13:26	1
Chloroform	ND		0.0052	0.0022	mg/Kg	☼	07/11/17 09:23	07/11/17 13:26	1
cis-1,2-Dichloroethene	ND		0.0052	0.0016	mg/Kg	☼	07/11/17 09:23	07/11/17 13:26	1
1,2-Dichlorobenzene	ND		0.0052	0.0041	mg/Kg	☼	07/11/17 09:23	07/11/17 13:26	1
1,3-Dichlorobenzene	ND		0.0052	0.0016	mg/Kg	☼	07/11/17 09:23	07/11/17 13:26	1
1,4-Dichlorobenzene	ND		0.0052	0.0011	mg/Kg	☼	07/11/17 09:23	07/11/17 13:26	1
1,1-Dichloroethane	ND		0.0052	0.0019	mg/Kg	☼	07/11/17 09:23	07/11/17 13:26	1
1,2-Dichloroethane	ND		0.0052	0.0015	mg/Kg	☼	07/11/17 09:23	07/11/17 13:26	1
1,1-Dichloroethene	ND		0.0052	0.0029	mg/Kg	☼	07/11/17 09:23	07/11/17 13:26	1
Ethylbenzene	ND		0.0052	0.0022	mg/Kg	☼	07/11/17 09:23	07/11/17 13:26	1
Methylene Chloride	ND		0.0052	0.0024	mg/Kg	☼	07/11/17 09:23	07/11/17 13:26	1
Methyl tert-butyl ether	ND		0.0052	0.0038	mg/Kg	☼	07/11/17 09:23	07/11/17 13:26	1
n-Butylbenzene	ND		0.0052	0.0039	mg/Kg	☼	07/11/17 09:23	07/11/17 13:26	1
N-Propylbenzene	ND		0.0052	0.0022	mg/Kg	☼	07/11/17 09:23	07/11/17 13:26	1
sec-Butylbenzene	ND		0.0052	0.0025	mg/Kg	☼	07/11/17 09:23	07/11/17 13:26	1
tert-Butylbenzene	ND		0.0052	0.0019	mg/Kg	☼	07/11/17 09:23	07/11/17 13:26	1
Tetrachloroethene	ND		0.0052	0.0021	mg/Kg	☼	07/11/17 09:23	07/11/17 13:26	1
Toluene	ND		0.0052	0.0017	mg/Kg	☼	07/11/17 09:23	07/11/17 13:26	1
trans-1,2-Dichloroethene	ND		0.0052	0.0026	mg/Kg	☼	07/11/17 09:23	07/11/17 13:26	1
1,1,1-Trichloroethane	ND		0.0052	0.0026	mg/Kg	☼	07/11/17 09:23	07/11/17 13:26	1
Trichloroethene	ND		0.0052	0.0015	mg/Kg	☼	07/11/17 09:23	07/11/17 13:26	1
1,2,4-Trimethylbenzene	ND		0.0052	0.0014	mg/Kg	☼	07/11/17 09:23	07/11/17 13:26	1
1,3,5-Trimethylbenzene	ND		0.0052	0.0018	mg/Kg	☼	07/11/17 09:23	07/11/17 13:26	1
Vinyl chloride	ND		0.0052	0.0038	mg/Kg	☼	07/11/17 09:23	07/11/17 13:26	1
Xylenes, Total	ND		0.010	0.0044	mg/Kg	☼	07/11/17 09:23	07/11/17 13:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*63 - 120*	*07/11/17 09:23*	*07/11/17 13:26*	*1*
Dibromofluoromethane (Surr)	*97*		*68 - 121*	*07/11/17 09:23*	*07/11/17 13:26*	*1*
1,2-Dichloroethane-d4 (Surr)	*89*		*52 - 124*	*07/11/17 09:23*	*07/11/17 13:26*	*1*
Toluene-d8 (Surr)	*119*		*72 - 127*	*07/11/17 09:23*	*07/11/17 13:26*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**11.9**		0.1	0.1	%			07/11/17 11:08	1
Percent Solids	**88.1**		0.1	0.1	%			07/11/17 11:08	1

Client Sample ID: WINDROW1, SEC 1, B — Lab Sample ID: 180-68037-14

Date Collected: 07/10/17 14:25 — **Matrix: Solid**
Date Received: 07/11/17 08:30 — **Percent Solids: 91.3**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.019	0.0031	mg/Kg	☼	07/11/17 09:23	07/11/17 13:49	1
Benzene	ND		0.0049	0.0019	mg/Kg	☼	07/11/17 09:23	07/11/17 13:49	1
2-Butanone (MEK)	ND		0.0049	0.0028	mg/Kg	☼	07/11/17 09:23	07/11/17 13:49	1

Client Sample ID: WINDROW1, SEC 1, B **Lab Sample ID: 180-68037-14**
Date Collected: 07/10/17 14:25 **Matrix: Solid**
Date Received: 07/11/17 08:30 **Percent Solids: 91.3**

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	ND		0.0049	0.0032	mg/Kg	☼	07/11/17 09:23	07/11/17 13:49	1
Chlorobenzene	ND		0.0049	0.0015	mg/Kg	☼	07/11/17 09:23	07/11/17 13:49	1
Chloroform	ND		0.0049	0.0021	mg/Kg	☼	07/11/17 09:23	07/11/17 13:49	1
cis-1,2-Dichloroethene	ND		0.0049	0.0015	mg/Kg	☼	07/11/17 09:23	07/11/17 13:49	1
1,2-Dichlorobenzene	ND		0.0049	0.0039	mg/Kg	☼	07/11/17 09:23	07/11/17 13:49	1
1,3-Dichlorobenzene	ND		0.0049	0.0016	mg/Kg	☼	07/11/17 09:23	07/11/17 13:49	1
1,4-Dichlorobenzene	ND		0.0049	0.00099	mg/Kg	☼	07/11/17 09:23	07/11/17 13:49	1
1,1-Dichloroethane	ND		0.0049	0.0018	mg/Kg	☼	07/11/17 09:23	07/11/17 13:49	1
1,2-Dichloroethane	ND		0.0049	0.0014	mg/Kg	☼	07/11/17 09:23	07/11/17 13:49	1
1,1-Dichloroethene	ND		0.0049	0.0028	mg/Kg	☼	07/11/17 09:23	07/11/17 13:49	1
Ethylbenzene	ND		0.0049	0.0021	mg/Kg	☼	07/11/17 09:23	07/11/17 13:49	1
Methylene Chloride	ND		0.0049	0.0023	mg/Kg	☼	07/11/17 09:23	07/11/17 13:49	1
Methyl tert-butyl ether	ND		0.0049	0.0036	mg/Kg	☼	07/11/17 09:23	07/11/17 13:49	1
n-Butylbenzene	ND		0.0049	0.0037	mg/Kg	☼	07/11/17 09:23	07/11/17 13:49	1
N-Propylbenzene	ND		0.0049	0.0021	mg/Kg	☼	07/11/17 09:23	07/11/17 13:49	1
sec-Butylbenzene	ND		0.0049	0.0024	mg/Kg	☼	07/11/17 09:23	07/11/17 13:49	1
tert-Butylbenzene	ND		0.0049	0.0018	mg/Kg	☼	07/11/17 09:23	07/11/17 13:49	1
Tetrachloroethene	ND		0.0049	0.0019	mg/Kg	☼	07/11/17 09:23	07/11/17 13:49	1
Toluene	ND		0.0049	0.0016	mg/Kg	☼	07/11/17 09:23	07/11/17 13:49	1
trans-1,2-Dichloroethene	ND		0.0049	0.0025	mg/Kg	☼	07/11/17 09:23	07/11/17 13:49	1
1,1,1-Trichloroethane	ND		0.0049	0.0024	mg/Kg	☼	07/11/17 09:23	07/11/17 13:49	1
Trichloroethene	ND		0.0049	0.0015	mg/Kg	☼	07/11/17 09:23	07/11/17 13:49	1
1,2,4-Trimethylbenzene	ND		0.0049	0.0013	mg/Kg	☼	07/11/17 09:23	07/11/17 13:49	1
1,3,5-Trimethylbenzene	ND		0.0049	0.0017	mg/Kg	☼	07/11/17 09:23	07/11/17 13:49	1
Vinyl chloride	ND		0.0049	0.0036	mg/Kg	☼	07/11/17 09:23	07/11/17 13:49	1
Xylenes, Total	ND		0.0097	0.0042	mg/Kg	☼	07/11/17 09:23	07/11/17 13:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*63 - 120*	*07/11/17 09:23*	*07/11/17 13:49*	*1*
Dibromofluoromethane (Surr)	*94*		*68 - 121*	*07/11/17 09:23*	*07/11/17 13:49*	*1*
1,2-Dichloroethane-d4 (Surr)	*85*		*52 - 124*	*07/11/17 09:23*	*07/11/17 13:49*	*1*
Toluene-d8 (Surr)	*114*		*72 - 127*	*07/11/17 09:23*	*07/11/17 13:49*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**8.7**		0.1	0.1	%			07/11/17 11:08	1
Percent Solids	**91.3**		0.1	0.1	%			07/11/17 11:08	1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 180-216673/1-A
Matrix: Solid
Analysis Batch: 216640

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 216673

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.020	0.0032	mg/Kg		07/11/17 06:21	07/11/17 09:22	1
Benzene	ND		0.0050	0.0020	mg/Kg		07/11/17 06:21	07/11/17 09:22	1
2-Butanone (MEK)	ND		0.0050	0.0029	mg/Kg		07/11/17 06:21	07/11/17 09:22	1
Carbon tetrachloride	ND		0.0050	0.0033	mg/Kg		07/11/17 06:21	07/11/17 09:22	1
Chlorobenzene	ND		0.0050	0.0016	mg/Kg		07/11/17 06:21	07/11/17 09:22	1
Chloroform	ND		0.0050	0.0021	mg/Kg		07/11/17 06:21	07/11/17 09:22	1
cis-1,2-Dichloroethene	ND		0.0050	0.0016	mg/Kg		07/11/17 06:21	07/11/17 09:22	1
1,2-Dichlorobenzene	ND		0.0050	0.0040	mg/Kg		07/11/17 06:21	07/11/17 09:22	1
1,3-Dichlorobenzene	ND		0.0050	0.0016	mg/Kg		07/11/17 06:21	07/11/17 09:22	1
1,4-Dichlorobenzene	ND		0.0050	0.0010	mg/Kg		07/11/17 06:21	07/11/17 09:22	1
1,1-Dichloroethane	ND		0.0050	0.0018	mg/Kg		07/11/17 06:21	07/11/17 09:22	1
1,2-Dichloroethane	ND		0.0050	0.0015	mg/Kg		07/11/17 06:21	07/11/17 09:22	1
1,1-Dichloroethene	ND		0.0050	0.0029	mg/Kg		07/11/17 06:21	07/11/17 09:22	1
Ethylbenzene	ND		0.0050	0.0022	mg/Kg		07/11/17 06:21	07/11/17 09:22	1
Methylene Chloride	ND		0.0050	0.0024	mg/Kg		07/11/17 06:21	07/11/17 09:22	1
Methyl tert-butyl ether	ND		0.0050	0.0037	mg/Kg		07/11/17 06:21	07/11/17 09:22	1
n-Butylbenzene	ND		0.0050	0.0038	mg/Kg		07/11/17 06:21	07/11/17 09:22	1
N-Propylbenzene	ND		0.0050	0.0021	mg/Kg		07/11/17 06:21	07/11/17 09:22	1
sec-Butylbenzene	ND		0.0050	0.0024	mg/Kg		07/11/17 06:21	07/11/17 09:22	1
tert-Butylbenzene	ND		0.0050	0.0018	mg/Kg		07/11/17 06:21	07/11/17 09:22	1
Tetrachloroethene	ND		0.0050	0.0020	mg/Kg		07/11/17 06:21	07/11/17 09:22	1
Toluene	ND		0.0050	0.0017	mg/Kg		07/11/17 06:21	07/11/17 09:22	1
trans-1,2-Dichloroethene	ND		0.0050	0.0025	mg/Kg		07/11/17 06:21	07/11/17 09:22	1
1,1,1-Trichloroethane	ND		0.0050	0.0025	mg/Kg		07/11/17 06:21	07/11/17 09:22	1
Trichloroethene	ND		0.0050	0.0015	mg/Kg		07/11/17 06:21	07/11/17 09:22	1
1,2,4-Trimethylbenzene	ND		0.0050	0.0013	mg/Kg		07/11/17 06:21	07/11/17 09:22	1
1,3,5-Trimethylbenzene	ND		0.0050	0.0017	mg/Kg		07/11/17 06:21	07/11/17 09:22	1
Vinyl chloride	ND		0.0050	0.0037	mg/Kg		07/11/17 06:21	07/11/17 09:22	1
Xylenes, Total	ND		0.010	0.0043	mg/Kg		07/11/17 06:21	07/11/17 09:22	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*63 - 120*	*07/11/17 06:21*	*07/11/17 09:22*	*1*
Dibromofluoromethane (Surr)	*99*		*68 - 121*	*07/11/17 06:21*	*07/11/17 09:22*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*52 - 124*	*07/11/17 06:21*	*07/11/17 09:22*	*1*
Toluene-d8 (Surr)	*111*		*72 - 127*	*07/11/17 06:21*	*07/11/17 09:22*	*1*

Lab Sample ID: LCS 180-216673/2-A
Matrix: Solid
Analysis Batch: 216640

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 216673

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0400	0.0412		mg/Kg		103	20 - 150
Benzene	0.0400	0.0396		mg/Kg		99	77 - 120
2-Butanone (MEK)	0.0400	0.0378		mg/Kg		94	35 - 149
Carbon tetrachloride	0.0400	0.0339		mg/Kg		85	69 - 122
Chlorobenzene	0.0400	0.0376		mg/Kg		94	79 - 120
Chloroform	0.0400	0.0370		mg/Kg		93	72 - 120
cis-1,2-Dichloroethene	0.0400	0.0366		mg/Kg		92	80 - 118

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 180-216673/2-A
Matrix: Solid
Analysis Batch: 216640

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 216673

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichlorobenzene	0.0400	0.0372		mg/Kg		93	71 - 124
1,3-Dichlorobenzene	0.0400	0.0379		mg/Kg		95	75 - 118
1,4-Dichlorobenzene	0.0400	0.0380		mg/Kg		95	77 - 116
1,1-Dichloroethane	0.0400	0.0412		mg/Kg		103	66 - 124
1,2-Dichloroethane	0.0400	0.0355		mg/Kg		89	61 - 127
1,1-Dichloroethene	0.0400	0.0410		mg/Kg		103	59 - 129
Ethylbenzene	0.0400	0.0367		mg/Kg		92	78 - 125
Methylene Chloride	0.0400	0.0371		mg/Kg		93	58 - 127
Methyl tert-butyl ether	0.0400	0.0377		mg/Kg		94	48 - 132
n-Butylbenzene	0.0400	0.0396		mg/Kg		99	59 - 145
N-Propylbenzene	0.0400	0.0344		mg/Kg		86	80 - 120
sec-Butylbenzene	0.0400	0.0401		mg/Kg		100	70 - 130
tert-Butylbenzene	0.0400	0.0369		mg/Kg		92	74 - 133
Tetrachloroethene	0.0400	0.0402		mg/Kg		101	78 - 129
Toluene	0.0400	0.0400		mg/Kg		100	78 - 124
trans-1,2-Dichloroethene	0.0400	0.0403		mg/Kg		101	77 - 121
1,1,1-Trichloroethane	0.0400	0.0372		mg/Kg		93	67 - 126
Trichloroethene	0.0400	0.0386		mg/Kg		97	76 - 119
1,2,4-Trimethylbenzene	0.0400	0.0374		mg/Kg		94	80 - 121
1,3,5-Trimethylbenzene	0.0400	0.0362		mg/Kg		90	68 - 133
Vinyl chloride	0.0400	0.0476		mg/Kg		119	63 - 124
Xylenes, Total	0.0800	0.0741		mg/Kg		93	83 - 126

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*95*		*63 - 120*
Dibromofluoromethane (Surr)	*101*		*68 - 121*
1,2-Dichloroethane-d4 (Surr)	*97*		*52 - 124*
Toluene-d8 (Surr)	*110*		*72 - 127*

Lab Sample ID: LCSD 180-216673/3-A
Matrix: Solid
Analysis Batch: 216640

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 216673

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	0.0400	0.0420		mg/Kg		105	20 - 150	2	40
Benzene	0.0400	0.0399		mg/Kg		100	77 - 120	1	20
2-Butanone (MEK)	0.0400	0.0416		mg/Kg		104	35 - 149	10	36
Carbon tetrachloride	0.0400	0.0356		mg/Kg		89	69 - 122	5	22
Chlorobenzene	0.0400	0.0374		mg/Kg		94	79 - 120	1	20
Chloroform	0.0400	0.0380		mg/Kg		95	72 - 120	3	25
cis-1,2-Dichloroethene	0.0400	0.0385		mg/Kg		96	80 - 118	5	20
1,2-Dichlorobenzene	0.0400	0.0394		mg/Kg		99	71 - 124	6	22
1,3-Dichlorobenzene	0.0400	0.0386		mg/Kg		97	75 - 118	2	20
1,4-Dichlorobenzene	0.0400	0.0385		mg/Kg		96	77 - 116	1	20
1,1-Dichloroethane	0.0400	0.0420		mg/Kg		105	66 - 124	2	23
1,2-Dichloroethane	0.0400	0.0373		mg/Kg		93	61 - 127	5	23
1,1-Dichloroethene	0.0400	0.0400		mg/Kg		100	59 - 129	3	25
Ethylbenzene	0.0400	0.0360		mg/Kg		90	78 - 125	2	21

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 180-216673/3-A
Matrix: Solid
Analysis Batch: 216640

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 216673

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methylene Chloride			0.0400	0.0372		mg/Kg		93	58 - 127	0	28
Methyl tert-butyl ether			0.0400	0.0394		mg/Kg		98	48 - 132	4	36
n-Butylbenzene			0.0400	0.0393		mg/Kg		98	59 - 145	1	24
N-Propylbenzene			0.0400	0.0365		mg/Kg		91	80 - 120	6	20
sec-Butylbenzene			0.0400	0.0388		mg/Kg		97	70 - 130	3	21
tert-Butylbenzene			0.0400	0.0373		mg/Kg		93	74 - 133	1	22
Tetrachloroethene			0.0400	0.0390		mg/Kg		98	78 - 129	3	20
Toluene			0.0400	0.0383		mg/Kg		96	78 - 124	5	21
trans-1,2-Dichloroethene			0.0400	0.0401		mg/Kg		100	77 - 121	1	20
1,1,1-Trichloroethane			0.0400	0.0391		mg/Kg		98	67 - 126	5	31
Trichloroethene			0.0400	0.0380		mg/Kg		95	76 - 119	2	21
1,2,4-Trimethylbenzene			0.0400	0.0377		mg/Kg		94	80 - 121	1	20
1,3,5-Trimethylbenzene			0.0400	0.0377		mg/Kg		94	68 - 133	4	21
Vinyl chloride			0.0400	0.0480		mg/Kg		120	63 - 124	1	27
Xylenes, Total			0.0800	0.0697		mg/Kg		87	83 - 126	6	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*90*		*63 - 120*
Dibromofluoromethane (Surr)	*104*		*68 - 121*
1,2-Dichloroethane-d4 (Surr)	*100*		*52 - 124*
Toluene-d8 (Surr)	*107*		*72 - 127*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Lab Sample ID: MB 180-216675/1-A
Matrix: Solid
Analysis Batch: 216666

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 216675

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0067	0.0022	mg/Kg		07/11/17 10:03	07/11/17 14:14	1
Acenaphthylene	ND		0.0067	0.0023	mg/Kg		07/11/17 10:03	07/11/17 14:14	1
Anthracene	ND		0.0067	0.0025	mg/Kg		07/11/17 10:03	07/11/17 14:14	1
Benzo[a]anthracene	ND		0.0067	0.0026	mg/Kg		07/11/17 10:03	07/11/17 14:14	1
Benzo[a]pyrene	ND		0.0067	0.0028	mg/Kg		07/11/17 10:03	07/11/17 14:14	1
Benzo[b]fluoranthene	ND		0.0067	0.0029	mg/Kg		07/11/17 10:03	07/11/17 14:14	1
Benzo[g,h,i]perylene	ND		0.0067	0.0029	mg/Kg		07/11/17 10:03	07/11/17 14:14	1
Benzo[k]fluoranthene	ND		0.0067	0.0023	mg/Kg		07/11/17 10:03	07/11/17 14:14	1
Chrysene	ND		0.0067	0.0026	mg/Kg		07/11/17 10:03	07/11/17 14:14	1
Dibenz(a,h)anthracene	ND		0.0067	0.0028	mg/Kg		07/11/17 10:03	07/11/17 14:14	1
Dibenzofuran	ND		0.033	0.0027	mg/Kg		07/11/17 10:03	07/11/17 14:14	1
2,4-Dinitrotoluene	ND		0.033	0.0044	mg/Kg		07/11/17 10:03	07/11/17 14:14	1
1,4-Dioxane	ND		0.067	0.0050	mg/Kg		07/11/17 10:03	07/11/17 14:14	1
Fluoranthene	ND		0.0067	0.0026	mg/Kg		07/11/17 10:03	07/11/17 14:14	1
Fluorene	ND		0.0067	0.0024	mg/Kg		07/11/17 10:03	07/11/17 14:14	1
Hexachlorobenzene	ND		0.0067	0.0027	mg/Kg		07/11/17 10:03	07/11/17 14:14	1
Hexachlorobutadiene	ND		0.0067	0.0021	mg/Kg		07/11/17 10:03	07/11/17 14:14	1
Hexachloroethane	ND		0.033	0.0024	mg/Kg		07/11/17 10:03	07/11/17 14:14	1
Indeno[1,2,3-cd]pyrene	ND		0.0067	0.0026	mg/Kg		07/11/17 10:03	07/11/17 14:14	1

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: MB 180-216675/1-A
Matrix: Solid
Analysis Batch: 216666

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 216675

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	ND		0.033	0.0029	mg/Kg		07/11/17 10:03	07/11/17 14:14	1
Methylphenol, 3 & 4	ND		0.033	0.0030	mg/Kg		07/11/17 10:03	07/11/17 14:14	1
Naphthalene	ND		0.0067	0.0024	mg/Kg		07/11/17 10:03	07/11/17 14:14	1
Nitrobenzene	ND		0.067	0.0025	mg/Kg		07/11/17 10:03	07/11/17 14:14	1
Pentachlorophenol	ND		0.17	0.063	mg/Kg		07/11/17 10:03	07/11/17 14:14	1
Phenanthrene	ND		0.0067	0.0028	mg/Kg		07/11/17 10:03	07/11/17 14:14	1
Phenol	ND		0.033	0.0045	mg/Kg		07/11/17 10:03	07/11/17 14:14	1
Pyrene	ND		0.0067	0.0030	mg/Kg		07/11/17 10:03	07/11/17 14:14	1
Pyridine	ND		0.033	0.0032	mg/Kg		07/11/17 10:03	07/11/17 14:14	1
2,4,5-Trichlorophenol	ND		0.033	0.0032	mg/Kg		07/11/17 10:03	07/11/17 14:14	1
2,4,6-Trichlorophenol	ND		0.033	0.0029	mg/Kg		07/11/17 10:03	07/11/17 14:14	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*64*		*42 - 100*	*07/11/17 10:03*	*07/11/17 14:14*	*1*
2-Fluorophenol (Surr)	*69*		*21 - 107*	*07/11/17 10:03*	*07/11/17 14:14*	*1*
Nitrobenzene-d5 (Surr)	*75*		*35 - 109*	*07/11/17 10:03*	*07/11/17 14:14*	*1*
Phenol-d5 (Surr)	*71*		*29 - 105*	*07/11/17 10:03*	*07/11/17 14:14*	*1*
Terphenyl-d14 (Surr)	*73*		*36 - 113*	*07/11/17 10:03*	*07/11/17 14:14*	*1*
2,4,6-Tribromophenol (Surr)	*60*		*20 - 134*	*07/11/17 10:03*	*07/11/17 14:14*	*1*

Lab Sample ID: LCS 180-216675/2-A
Matrix: Solid
Analysis Batch: 216666

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 216675

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	0.667	0.469		mg/Kg		70	39 - 100
Acenaphthylene	0.667	0.485		mg/Kg		73	42 - 100
Anthracene	0.667	0.525		mg/Kg		79	43 - 100
Benzo[a]anthracene	0.667	0.492		mg/Kg		74	43 - 100
Benzo[a]pyrene	0.667	0.499		mg/Kg		75	43 - 100
Benzo[b]fluoranthene	0.667	0.478		mg/Kg		72	40 - 100
Benzo[g,h,i]perylene	0.667	0.498		mg/Kg		75	41 - 102
Benzo[k]fluoranthene	0.667	0.522		mg/Kg		78	44 - 100
Chrysene	0.667	0.478		mg/Kg		72	44 - 100
Dibenz(a,h)anthracene	0.667	0.508		mg/Kg		76	40 - 104
Dibenzofuran	0.667	0.476		mg/Kg		71	42 - 100
2,4-Dinitrotoluene	0.667	0.527		mg/Kg		79	42 - 110
1,4-Dioxane	0.667	0.524		mg/Kg		79	19 - 107
Fluoranthene	0.667	0.489		mg/Kg		73	41 - 104
Fluorene	0.667	0.465		mg/Kg		70	41 - 100
Hexachlorobenzene	0.667	0.485		mg/Kg		73	43 - 100
Hexachlorobutadiene	0.667	0.461		mg/Kg		69	35 - 100
Hexachloroethane	0.667	0.485		mg/Kg		73	35 - 100
Indeno[1,2,3-cd]pyrene	0.667	0.503		mg/Kg		75	41 - 104
2-Methylphenol	0.667	0.508		mg/Kg		76	38 - 100
Methylphenol, 3 & 4	0.667	0.504		mg/Kg		76	40 - 100
Naphthalene	0.667	0.509		mg/Kg		76	38 - 100
Nitrobenzene	0.667	0.560		mg/Kg		84	34 - 100

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCS 180-216675/2-A
Matrix: Solid
Analysis Batch: 216666

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 216675

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Pentachlorophenol	1.33	1.02		mg/Kg		77	34 - 102
Phenanthrene	0.667	0.534		mg/Kg		80	41 - 100
Phenol	0.667	0.522		mg/Kg		78	36 - 100
Pyrene	0.667	0.515		mg/Kg		77	42 - 100
Pyridine	1.33	1.12		mg/Kg		84	25 - 119
2,4,5-Trichlorophenol	0.667	0.502		mg/Kg		75	42 - 100
2,4,6-Trichlorophenol	0.667	0.508		mg/Kg		76	41 - 103

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*58*		*42 - 100*
2-Fluorophenol (Surr)	*66*		*21 - 107*
Nitrobenzene-d5 (Surr)	*71*		*35 - 109*
Phenol-d5 (Surr)	*69*		*29 - 105*
Terphenyl-d14 (Surr)	*67*		*36 - 113*
2,4,6-Tribromophenol (Surr)	*62*		*20 - 134*

Lab Sample ID: 180-68037-1 MS
Matrix: Solid
Analysis Batch: 216666

Client Sample ID: DUP2
Prep Type: Total/NA
Prep Batch: 216675

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	ND		0.753	0.661		mg/Kg	☼	88	39 - 100
Acenaphthylene	0.46		0.753	0.944		mg/Kg	☼	64	42 - 100
Anthracene	0.22	F1	0.753	0.978	F1	mg/Kg	☼	101	43 - 100
Benzo[a]anthracene	0.53		0.753	1.20		mg/Kg	☼	89	43 - 100
Benzo[a]pyrene	0.66		0.753	1.18		mg/Kg	☼	69	43 - 100
Benzo[b]fluoranthene	0.67		0.753	1.20		mg/Kg	☼	71	40 - 100
Benzo[g,h,i]perylene	0.55		0.753	1.17		mg/Kg	☼	81	41 - 102
Benzo[k]fluoranthene	0.23	F1	0.753	0.951		mg/Kg	☼	96	44 - 100
Chrysene	0.60		0.753	1.13		mg/Kg	☼	70	44 - 100
Dibenz(a,h)anthracene	0.13		0.753	0.772		mg/Kg	☼	85	40 - 104
Dibenzofuran	ND	F1	0.753	0.707		mg/Kg	☼	94	42 - 100
2,4-Dinitrotoluene	ND		0.753	0.634		mg/Kg	☼	84	42 - 110
1,4-Dioxane	ND		0.753	0.511	J	mg/Kg	☼	68	19 - 107
Fluoranthene	0.45	F1	0.753	1.44	F1	mg/Kg	☼	130	41 - 104
Fluorene	0.055	J	0.753	0.728		mg/Kg	☼	89	41 - 100
Hexachlorobenzene	ND		0.753	0.639		mg/Kg	☼	85	43 - 100
Hexachlorobutadiene	ND		0.753	0.593		mg/Kg	☼	79	35 - 100
Hexachloroethane	ND		0.753	0.605		mg/Kg	☼	80	35 - 100
Indeno[1,2,3-cd]pyrene	0.39		0.753	1.05		mg/Kg	☼	87	41 - 104
2-Methylphenol	ND		0.753	0.632		mg/Kg	☼	84	38 - 100
Methylphenol, 3 & 4	ND		0.753	0.661		mg/Kg	☼	88	40 - 100
Naphthalene	0.098		0.753	0.803		mg/Kg	☼	94	38 - 100
Nitrobenzene	ND	F1	0.753	0.735	J	mg/Kg	☼	98	34 - 100
Pentachlorophenol	ND		1.51	1.08	J	mg/Kg	☼	72	34 - 102
Phenanthrene	0.21	F1	0.753	1.42	F1	mg/Kg	☼	161	41 - 100
Phenol	ND		0.753	0.615		mg/Kg	☼	82	36 - 100
Pyrene	0.81	F1	0.753	1.69	F1	mg/Kg	☼	117	42 - 100

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: 180-68037-1 MS
Matrix: Solid
Analysis Batch: 216666

Client Sample ID: DUP2
Prep Type: Total/NA
Prep Batch: 216675

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Pyridine	ND		1.51	0.407		mg/Kg	☼	27	25 - 119
2,4,5-Trichlorophenol	ND		0.753	0.630		mg/Kg	☼	84	42 - 100
2,4,6-Trichlorophenol	ND		0.753	0.627		mg/Kg	☼	83	41 - 103

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl	*51*		*42 - 100*
2-Fluorophenol (Surr)	*51*		*21 - 107*
Nitrobenzene-d5 (Surr)	*60*		*35 - 109*
Phenol-d5 (Surr)	*55*		*29 - 105*
Terphenyl-d14 (Surr)	*57*		*36 - 113*
2,4,6-Tribromophenol (Surr)	*54*		*20 - 134*

Lab Sample ID: 180-68037-1 MSD
Matrix: Solid
Analysis Batch: 216666

Client Sample ID: DUP2
Prep Type: Total/NA
Prep Batch: 216675

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	ND		0.753	0.700		mg/Kg	☼	93	39 - 100	6	20
Acenaphthylene	0.46		0.753	1.01		mg/Kg	☼	73	42 - 100	7	20
Anthracene	0.22	F1	0.753	1.03	F1	mg/Kg	☼	109	43 - 100	6	20
Benzo[a]anthracene	0.53		0.753	1.25		mg/Kg	☼	95	43 - 100	4	20
Benzo[a]pyrene	0.66		0.753	1.22		mg/Kg	☼	75	43 - 100	4	20
Benzo[b]fluoranthene	0.67		0.753	1.27		mg/Kg	☼	79	40 - 100	5	20
Benzo[g,h,i]perylene	0.55		0.753	1.28		mg/Kg	☼	97	41 - 102	9	20
Benzo[k]fluoranthene	0.23	F1	0.753	1.06	F1	mg/Kg	☼	110	44 - 100	11	20
Chrysene	0.60		0.753	1.22		mg/Kg	☼	83	44 - 100	8	20
Dibenz(a,h)anthracene	0.13		0.753	0.854		mg/Kg	☼	96	40 - 104	10	26
Dibenzofuran	ND	F1	0.753	0.771	F1	mg/Kg	☼	102	42 - 100	9	23
2,4-Dinitrotoluene	ND		0.753	0.722		mg/Kg	☼	96	42 - 110	13	21
1,4-Dioxane	ND		0.753	0.528	J	mg/Kg	☼	70	19 - 107	3	20
Fluoranthene	0.45	F1	0.753	1.50	F1	mg/Kg	☼	139	41 - 104	4	20
Fluorene	0.055	J	0.753	0.756		mg/Kg	☼	93	41 - 100	4	21
Hexachlorobenzene	ND		0.753	0.665		mg/Kg	☼	88	43 - 100	4	21
Hexachlorobutadiene	ND		0.753	0.646		mg/Kg	☼	86	35 - 100	8	20
Hexachloroethane	ND		0.753	0.644		mg/Kg	☼	86	35 - 100	6	20
Indeno[1,2,3-cd]pyrene	0.39		0.753	1.12		mg/Kg	☼	97	41 - 104	7	25
2-Methylphenol	ND		0.753	0.682		mg/Kg	☼	91	38 - 100	8	20
Methylphenol, 3 & 4	ND		0.753	0.702		mg/Kg	☼	93	40 - 100	6	20
Naphthalene	0.098		0.753	0.851		mg/Kg	☼	100	38 - 100	6	20
Nitrobenzene	ND	F1	0.753	0.772	F1	mg/Kg	☼	103	34 - 100	5	20
Pentachlorophenol	ND		1.51	1.19	J	mg/Kg	☼	79	34 - 102	10	20
Phenanthrene	0.21	F1	0.753	1.51	F1	mg/Kg	☼	173	41 - 100	6	20
Phenol	ND		0.753	0.681		mg/Kg	☼	90	36 - 100	10	20
Pyrene	0.81	F1	0.753	1.72	F1	mg/Kg	☼	120	42 - 100	1	21
Pyridine	ND		1.51	0.445		mg/Kg	☼	30	25 - 119	9	20
2,4,5-Trichlorophenol	ND		0.753	0.683		mg/Kg	☼	91	42 - 100	8	22
2,4,6-Trichlorophenol	ND		0.753	0.682		mg/Kg	☼	91	41 - 103	8	25

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: 180-68037-1 MSD
Matrix: Solid
Analysis Batch: 216666

Client Sample ID: DUP2
Prep Type: Total/NA
Prep Batch: 216675

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl	*53*		*42 - 100*
2-Fluorophenol (Surr)	*54*		*21 - 107*
Nitrobenzene-d5 (Surr)	*63*		*35 - 109*
Phenol-d5 (Surr)	*59*		*29 - 105*
Terphenyl-d14 (Surr)	*59*		*36 - 113*
2,4,6-Tribromophenol (Surr)	*58*		*20 - 134*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 180-216674/1-C
Matrix: Solid
Analysis Batch: 216665

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 216674

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.017	0.0088	mg/Kg		07/11/17 09:57	07/11/17 17:38	1
PCB-1221	ND		0.017	0.0086	mg/Kg		07/11/17 09:57	07/11/17 17:38	1
PCB-1232	ND		0.017	0.0066	mg/Kg		07/11/17 09:57	07/11/17 17:38	1
PCB-1242	ND		0.017	0.013	mg/Kg		07/11/17 09:57	07/11/17 17:38	1
PCB-1248	ND		0.017	0.0080	mg/Kg		07/11/17 09:57	07/11/17 17:38	1
PCB-1254	ND		0.017	0.0073	mg/Kg		07/11/17 09:57	07/11/17 17:38	1
PCB-1260	ND		0.017	0.011	mg/Kg		07/11/17 09:57	07/11/17 17:38	1
PCB-1262	ND		0.017	0.012	mg/Kg		07/11/17 09:57	07/11/17 17:38	1
PCB-1268	ND		0.017	0.0051	mg/Kg		07/11/17 09:57	07/11/17 17:38	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*68*		*23 - 150*	*07/11/17 09:57*	*07/11/17 17:38*	*1*
DCB Decachlorobiphenyl (Surr)	*72*		*23 - 150*	*07/11/17 09:57*	*07/11/17 17:38*	*1*
Tetrachloro-m-xylene (Surr)	*80*		*27 - 138*	*07/11/17 09:57*	*07/11/17 17:38*	*1*
Tetrachloro-m-xylene (Surr)	*76*		*27 - 138*	*07/11/17 09:57*	*07/11/17 17:38*	*1*

Lab Sample ID: LCS 180-216674/2-C
Matrix: Solid
Analysis Batch: 216665

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 216674

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			1.33	1.02		mg/Kg		77	52 - 126		
PCB-1260			1.33	1.09		mg/Kg		82	50 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*71*		*23 - 150*
DCB Decachlorobiphenyl (Surr)	*76*		*23 - 150*
Tetrachloro-m-xylene (Surr)	*82*		*27 - 138*
Tetrachloro-m-xylene (Surr)	*76*		*27 - 138*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 180-216814/1-A
Matrix: Solid
Analysis Batch: 217031

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 216814

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		1.0	0.44	mg/Kg		07/12/17 11:52	07/13/17 14:10	1
Barium	ND		20	5.4	mg/Kg		07/12/17 11:52	07/13/17 14:10	1
Beryllium	ND		0.40	0.10	mg/Kg		07/12/17 11:52	07/13/17 14:10	1
Cadmium	ND		0.50	0.11	mg/Kg		07/12/17 11:52	07/13/17 14:10	1
Chromium	ND		0.50	0.13	mg/Kg		07/12/17 11:52	07/13/17 14:10	1
Copper	ND		2.5	0.77	mg/Kg		07/12/17 11:52	07/13/17 14:10	1
Lead	ND		1.0	0.33	mg/Kg		07/12/17 11:52	07/13/17 14:10	1
Manganese	ND		1.5	0.41	mg/Kg		07/12/17 11:52	07/13/17 14:10	1
Nickel	ND		4.0	0.90	mg/Kg		07/12/17 11:52	07/13/17 14:10	1
Selenium	ND		1.0	0.40	mg/Kg		07/12/17 11:52	07/13/17 14:10	1
Silver	ND		0.50	0.17	mg/Kg		07/12/17 11:52	07/13/17 14:10	1
Zinc	ND		2.0	1.0	mg/Kg		07/12/17 11:52	07/13/17 14:10	1

Lab Sample ID: LCS 180-216814/2-A
Matrix: Solid
Analysis Batch: 217031

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 216814

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	50.0	50.5		mg/Kg		101	80 - 120
Barium	200	201		mg/Kg		100	80 - 120
Beryllium	5.00	5.07		mg/Kg		101	80 - 120
Cadmium	5.00	5.10		mg/Kg		102	80 - 120
Chromium	20.0	20.0		mg/Kg		100	80 - 120
Copper	25.0	25.3		mg/Kg		101	80 - 120
Lead	50.0	49.6		mg/Kg		99	80 - 120
Manganese	50.0	50.0		mg/Kg		100	80 - 120
Nickel	50.0	50.8		mg/Kg		102	80 - 120
Selenium	50.0	51.1		mg/Kg		102	80 - 120
Silver	5.00	5.06		mg/Kg		101	80 - 120
Zinc	50.0	49.7		mg/Kg		99	80 - 120

Lab Sample ID: 180-68037-1 MS
Matrix: Solid
Analysis Batch: 217031

Client Sample ID: DUP2
Prep Type: Total/NA
Prep Batch: 216814

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	7.0		57.1	55.6		mg/Kg	☼	85	75 - 125
Barium	91		228	285		mg/Kg	☼	85	75 - 125
Beryllium	0.38	J	5.71	5.27		mg/Kg	☼	86	75 - 125
Cadmium	0.20	J	5.71	5.10		mg/Kg	☼	86	75 - 125
Chromium	11		22.8	30.9		mg/Kg	☼	88	75 - 125
Copper	25		28.5	48.2		mg/Kg	☼	82	75 - 125
Lead	34		57.1	87.1		mg/Kg	☼	93	75 - 125
Manganese	430		57.1	454	4	mg/Kg	☼	36	75 - 125
Nickel	20		57.1	72.0		mg/Kg	☼	91	75 - 125
Selenium	0.68	J	57.1	49.3		mg/Kg	☼	85	75 - 125
Silver	ND		5.71	5.02		mg/Kg	☼	88	75 - 125
Zinc	75		57.1	120		mg/Kg	☼	79	75 - 125

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 180-68037-1 MSD
Matrix: Solid
Analysis Batch: 217031

Client Sample ID: DUP2
Prep Type: Total/NA
Prep Batch: 216814

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	7.0		57.7	56.2		mg/Kg	☼	85	75 - 125	1	20
Barium	91		231	297		mg/Kg	☼	89	75 - 125	4	20
Beryllium	0.38	J	5.77	5.35		mg/Kg	☼	86	75 - 125	2	20
Cadmium	0.20	J	5.77	5.16		mg/Kg	☼	86	75 - 125	1	20
Chromium	11		23.1	31.7		mg/Kg	☼	90	75 - 125	2	20
Copper	25		28.8	50.0		mg/Kg	☼	87	75 - 125	4	20
Lead	34		57.7	90.8		mg/Kg	☼	99	75 - 125	4	20
Manganese	430		57.7	511	4	mg/Kg	☼	135	75 - 125	12	20
Nickel	20		57.7	75.1		mg/Kg	☼	95	75 - 125	4	20
Selenium	0.68	J	57.7	48.9		mg/Kg	☼	84	75 - 125	1	20
Silver	ND		5.77	4.98		mg/Kg	☼	86	75 - 125	1	20
Zinc	75		57.7	135		mg/Kg	☼	104	75 - 125	11	20

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 180-216844/1-A
Matrix: Solid
Analysis Batch: 216948

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 216844

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.033	0.0074	mg/Kg		07/12/17 14:26	07/13/17 09:02	1

Lab Sample ID: LCS 180-216844/2-A
Matrix: Solid
Analysis Batch: 216948

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 216844

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.417	0.465		mg/Kg		112	80 - 120

Method: 2540G - SM 2540G

Lab Sample ID: 180-68037-11 DU
Matrix: Solid
Analysis Batch: 216682

Client Sample ID: WINDROW1, SEC 1, C
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	9.4		9.3		%		2	20
Percent Solids	90.6		90.7		%		0.2	20

Method: 9014 - Cyanide

Lab Sample ID: MB 180-216711/4-A
Matrix: Solid
Analysis Batch: 216832

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 216711

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.50	0.15	mg/Kg		07/11/17 13:12	07/11/17 17:50	1

Method: 9014 - Cyanide (Continued)

Lab Sample ID: HLCS 180-216711/2-A
Matrix: Solid
Analysis Batch: 216832

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 216711

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.250	0.245		mg/Kg		98	90 - 110

Lab Sample ID: LCS 180-216711/3-A
Matrix: Solid
Analysis Batch: 216832

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 216711

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	158	108		mg/Kg		69	38 - 162

Lab Sample ID: LLCS 180-216711/1-A
Matrix: Solid
Analysis Batch: 216832

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 216711

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.0500	0.0490		mg/Kg		98	90 - 110

Lab Sample ID: 180-68037-2 MS
Matrix: Solid
Analysis Batch: 216832

Client Sample ID: WINDROW1, SEC 3, C
Prep Type: Total/NA
Prep Batch: 216711

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.19	J	5.37	5.40		mg/Kg	☼	97	75 - 125

Lab Sample ID: 180-68037-2 MSD
Matrix: Solid
Analysis Batch: 216832

Client Sample ID: WINDROW1, SEC 3, C
Prep Type: Total/NA
Prep Batch: 216711

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cyanide, Total	0.19	J	5.08	5.09		mg/Kg	☼	96	75 - 125	6	20

GC/MS VOA

Analysis Batch: 216640

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68037-3	WINDROW1, SEC 3, B	Total/NA	Solid	8260C	216673
180-68037-5	DUP1	Total/NA	Solid	8260C	216673
180-68037-6	WINDROW1, SEC 3, A	Total/NA	Solid	8260C	216673
180-68037-7	WINDROW1, SEC 4, B	Total/NA	Solid	8260C	216673
180-68037-9	WINDROW1, SEC 2, A	Total/NA	Solid	8260C	216673
180-68037-10	WINDROW1, SEC 1, A	Total/NA	Solid	8260C	216673
180-68037-12	WINDROW1, SEC 4, A	Total/NA	Solid	8260C	216673
180-68037-13	WINDROW1, SEC 2, B	Total/NA	Solid	8260C	216673
180-68037-14	WINDROW1, SEC 1, B	Total/NA	Solid	8260C	216673
MB 180-216673/1-A	Method Blank	Total/NA	Solid	8260C	216673
LCS 180-216673/2-A	Lab Control Sample	Total/NA	Solid	8260C	216673
LCSD 180-216673/3-A	Lab Control Sample Dup	Total/NA	Solid	8260C	216673

Prep Batch: 216673

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68037-3	WINDROW1, SEC 3, B	Total/NA	Solid	5035	
180-68037-5	DUP1	Total/NA	Solid	5035	
180-68037-6	WINDROW1, SEC 3, A	Total/NA	Solid	5035	
180-68037-7	WINDROW1, SEC 4, B	Total/NA	Solid	5035	
180-68037-9	WINDROW1, SEC 2, A	Total/NA	Solid	5035	
180-68037-10	WINDROW1, SEC 1, A	Total/NA	Solid	5035	
180-68037-12	WINDROW1, SEC 4, A	Total/NA	Solid	5035	
180-68037-13	WINDROW1, SEC 2, B	Total/NA	Solid	5035	
180-68037-14	WINDROW1, SEC 1, B	Total/NA	Solid	5035	
MB 180-216673/1-A	Method Blank	Total/NA	Solid	5035	
LCS 180-216673/2-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 180-216673/3-A	Lab Control Sample Dup	Total/NA	Solid	5035	

GC/MS Semi VOA

Analysis Batch: 216666

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68037-1	DUP2	Total/NA	Solid	8270D LL	216675
180-68037-2	WINDROW1, SEC 3, C	Total/NA	Solid	8270D LL	216675
180-68037-4	WINDROW1, SEC 4, C	Total/NA	Solid	8270D LL	216675
180-68037-8	WINDROW1, SEC 2, C	Total/NA	Solid	8270D LL	216675
180-68037-11	WINDROW1, SEC 1, C	Total/NA	Solid	8270D LL	216675
MB 180-216675/1-A	Method Blank	Total/NA	Solid	8270D LL	216675
LCS 180-216675/2-A	Lab Control Sample	Total/NA	Solid	8270D LL	216675
180-68037-1 MS	DUP2	Total/NA	Solid	8270D LL	216675
180-68037-1 MSD	DUP2	Total/NA	Solid	8270D LL	216675

Prep Batch: 216675

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68037-1	DUP2	Total/NA	Solid	3541	
180-68037-2	WINDROW1, SEC 3, C	Total/NA	Solid	3541	
180-68037-4	WINDROW1, SEC 4, C	Total/NA	Solid	3541	
180-68037-8	WINDROW1, SEC 2, C	Total/NA	Solid	3541	
180-68037-11	WINDROW1, SEC 1, C	Total/NA	Solid	3541	
MB 180-216675/1-A	Method Blank	Total/NA	Solid	3541	

GC/MS Semi VOA (Continued)

Prep Batch: 216675 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 180-216675/2-A	Lab Control Sample	Total/NA	Solid	3541	
180-68037-1 MS	DUP2	Total/NA	Solid	3541	
180-68037-1 MSD	DUP2	Total/NA	Solid	3541	

GC Semi VOA

Analysis Batch: 216665

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68037-1	DUP2	Total/NA	Solid	8082A	216717
180-68037-2	WINDROW1, SEC 3, C	Total/NA	Solid	8082A	216717
180-68037-4	WINDROW1, SEC 4, C	Total/NA	Solid	8082A	216717
180-68037-8	WINDROW1, SEC 2, C	Total/NA	Solid	8082A	216717
180-68037-11	WINDROW1, SEC 1, C	Total/NA	Solid	8082A	216717
MB 180-216674/1-C	Method Blank	Total/NA	Solid	8082A	216717
LCS 180-216674/2-C	Lab Control Sample	Total/NA	Solid	8082A	216717

Prep Batch: 216674

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68037-1	DUP2	Total/NA	Solid	3541	
180-68037-2	WINDROW1, SEC 3, C	Total/NA	Solid	3541	
180-68037-4	WINDROW1, SEC 4, C	Total/NA	Solid	3541	
180-68037-8	WINDROW1, SEC 2, C	Total/NA	Solid	3541	
180-68037-11	WINDROW1, SEC 1, C	Total/NA	Solid	3541	
MB 180-216674/1-C	Method Blank	Total/NA	Solid	3541	
LCS 180-216674/2-C	Lab Control Sample	Total/NA	Solid	3541	

Cleanup Batch: 216716

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68037-1	DUP2	Total/NA	Solid	3665A	216674
180-68037-2	WINDROW1, SEC 3, C	Total/NA	Solid	3665A	216674
180-68037-4	WINDROW1, SEC 4, C	Total/NA	Solid	3665A	216674
180-68037-8	WINDROW1, SEC 2, C	Total/NA	Solid	3665A	216674
180-68037-11	WINDROW1, SEC 1, C	Total/NA	Solid	3665A	216674
MB 180-216674/1-C	Method Blank	Total/NA	Solid	3665A	216674
LCS 180-216674/2-C	Lab Control Sample	Total/NA	Solid	3665A	216674

Cleanup Batch: 216717

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68037-1	DUP2	Total/NA	Solid	3660B	216716
180-68037-2	WINDROW1, SEC 3, C	Total/NA	Solid	3660B	216716
180-68037-4	WINDROW1, SEC 4, C	Total/NA	Solid	3660B	216716
180-68037-8	WINDROW1, SEC 2, C	Total/NA	Solid	3660B	216716
180-68037-11	WINDROW1, SEC 1, C	Total/NA	Solid	3660B	216716
MB 180-216674/1-C	Method Blank	Total/NA	Solid	3660B	216716
LCS 180-216674/2-C	Lab Control Sample	Total/NA	Solid	3660B	216716

Metals

Prep Batch: 216814

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68037-1	DUP2	Total/NA	Solid	3050B	
180-68037-2	WINDROW1, SEC 3, C	Total/NA	Solid	3050B	
180-68037-4	WINDROW1, SEC 4, C	Total/NA	Solid	3050B	
180-68037-8	WINDROW1, SEC 2, C	Total/NA	Solid	3050B	
180-68037-11	WINDROW1, SEC 1, C	Total/NA	Solid	3050B	
MB 180-216814/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 180-216814/2-A	Lab Control Sample	Total/NA	Solid	3050B	
180-68037-1 MS	DUP2	Total/NA	Solid	3050B	
180-68037-1 MSD	DUP2	Total/NA	Solid	3050B	

Prep Batch: 216844

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68037-1	DUP2	Total/NA	Solid	7471B	
180-68037-2	WINDROW1, SEC 3, C	Total/NA	Solid	7471B	
180-68037-4	WINDROW1, SEC 4, C	Total/NA	Solid	7471B	
180-68037-8	WINDROW1, SEC 2, C	Total/NA	Solid	7471B	
180-68037-11	WINDROW1, SEC 1, C	Total/NA	Solid	7471B	
MB 180-216844/1-A	Method Blank	Total/NA	Solid	7471B	
LCS 180-216844/2-A	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 216948

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68037-1	DUP2	Total/NA	Solid	7471B	216844
180-68037-2	WINDROW1, SEC 3, C	Total/NA	Solid	7471B	216844
180-68037-4	WINDROW1, SEC 4, C	Total/NA	Solid	7471B	216844
180-68037-8	WINDROW1, SEC 2, C	Total/NA	Solid	7471B	216844
180-68037-11	WINDROW1, SEC 1, C	Total/NA	Solid	7471B	216844
MB 180-216844/1-A	Method Blank	Total/NA	Solid	7471B	216844
LCS 180-216844/2-A	Lab Control Sample	Total/NA	Solid	7471B	216844

Analysis Batch: 217031

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68037-1	DUP2	Total/NA	Solid	6010C	216814
180-68037-2	WINDROW1, SEC 3, C	Total/NA	Solid	6010C	216814
180-68037-4	WINDROW1, SEC 4, C	Total/NA	Solid	6010C	216814
180-68037-8	WINDROW1, SEC 2, C	Total/NA	Solid	6010C	216814
180-68037-11	WINDROW1, SEC 1, C	Total/NA	Solid	6010C	216814
MB 180-216814/1-A	Method Blank	Total/NA	Solid	6010C	216814
LCS 180-216814/2-A	Lab Control Sample	Total/NA	Solid	6010C	216814
180-68037-1 MS	DUP2	Total/NA	Solid	6010C	216814
180-68037-1 MSD	DUP2	Total/NA	Solid	6010C	216814

General Chemistry

Analysis Batch: 216682

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68037-10	WINDROW1, SEC 1, A	Total/NA	Solid	2540G	
180-68037-11	WINDROW1, SEC 1, C	Total/NA	Solid	2540G	
180-68037-12	WINDROW1, SEC 4, A	Total/NA	Solid	2540G	
180-68037-13	WINDROW1, SEC 2, B	Total/NA	Solid	2540G	

General Chemistry (Continued)

Analysis Batch: 216682 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68037-14	WINDROW1, SEC 1, B	Total/NA	Solid	2540G	
180-68037-11 DU	WINDROW1, SEC 1, C	Total/NA	Solid	2540G	

Prep Batch: 216711

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68037-1	DUP2	Total/NA	Solid	9010C	
180-68037-2	WINDROW1, SEC 3, C	Total/NA	Solid	9010C	
180-68037-4	WINDROW1, SEC 4, C	Total/NA	Solid	9010C	
180-68037-8	WINDROW1, SEC 2, C	Total/NA	Solid	9010C	
180-68037-11	WINDROW1, SEC 1, C	Total/NA	Solid	9010C	
MB 180-216711/4-A	Method Blank	Total/NA	Solid	9010C	
HLCS 180-216711/2-A	Lab Control Sample	Total/NA	Solid	9010C	
LCS 180-216711/3-A	Lab Control Sample	Total/NA	Solid	9010C	
LLCS 180-216711/1-A	Lab Control Sample	Total/NA	Solid	9010C	
180-68037-2 MS	WINDROW1, SEC 3, C	Total/NA	Solid	9010C	
180-68037-2 MSD	WINDROW1, SEC 3, C	Total/NA	Solid	9010C	

Analysis Batch: 216820

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68037-1	DUP2	Total/NA	Solid	2540G	
180-68037-2	WINDROW1, SEC 3, C	Total/NA	Solid	2540G	
180-68037-3	WINDROW1, SEC 3, B	Total/NA	Solid	2540G	
180-68037-4	WINDROW1, SEC 4, C	Total/NA	Solid	2540G	
180-68037-5	DUP1	Total/NA	Solid	2540G	
180-68037-6	WINDROW1, SEC 3, A	Total/NA	Solid	2540G	
180-68037-7	WINDROW1, SEC 4, B	Total/NA	Solid	2540G	
180-68037-8	WINDROW1, SEC 2, C	Total/NA	Solid	2540G	
180-68037-9	WINDROW1, SEC 2, A	Total/NA	Solid	2540G	

Analysis Batch: 216832

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68037-1	DUP2	Total/NA	Solid	9014	216711
180-68037-2	WINDROW1, SEC 3, C	Total/NA	Solid	9014	216711
180-68037-4	WINDROW1, SEC 4, C	Total/NA	Solid	9014	216711
180-68037-8	WINDROW1, SEC 2, C	Total/NA	Solid	9014	216711
180-68037-11	WINDROW1, SEC 1, C	Total/NA	Solid	9014	216711
MB 180-216711/4-A	Method Blank	Total/NA	Solid	9014	216711
HLCS 180-216711/2-A	Lab Control Sample	Total/NA	Solid	9014	216711
LCS 180-216711/3-A	Lab Control Sample	Total/NA	Solid	9014	216711
LLCS 180-216711/1-A	Lab Control Sample	Total/NA	Solid	9014	216711
180-68037-2 MS	WINDROW1, SEC 3, C	Total/NA	Solid	9014	216711
180-68037-2 MSD	WINDROW1, SEC 3, C	Total/NA	Solid	9014	216711

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Chain of Cus

180-68037 Chain of Custody

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA

Client Contact	Project Manager: Aron Krasnopoler	Site Contact: Jay Thompson	Date: 7/10/2017	COC No:
Geosyntec Consultants	Tel/Fax: 401-381-4333	Lab Contact: Dave Dunlap	Carrier: FedEx	1 of 2 COCs
10211 Wincopin Circle, 4th Floor	Analysis Turnaround Time			Sampler:
Columbia, MD 21044	☐ CALENDAR DAYS ☑ WORKING DAYS			For Lab Use Only:
410-381-4333 Phone	TAT if different from Below			
410-381-4499 FAX	☐ 2 weeks DATE 7/14/17			
Project Name: Former Sperry Remington Site - North	☐ 1 week 3 DAY TAT as per Aron Krasnopoler			
Site: Elmira	☐ 2 days			
P O # MN0832B	☑ 1 day			

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	PCBs - 8082A	VOCs - 8260C	TCLP - Lead	6010C	8270D-LL	7471B	9014	Sample Specific Notes:
1	DUP 2	7-10-17	—	C	S	2	N	N	X			X	X	X	X	
2	Windrow 1, Sec 3, C	7-10-17	16:15	C	S	2	N	N	X			X	X	X	X	
3	Windrow 1, Sec 3, B	7-10-17	16:05	G	S	4	N	N		X						
4	Windrow 1, Sec 4, C	7-10-17	16:40	C	S	2	N	N	X			X	X	X	X	
5	DUP 1	7-10-17	—	G	S	4	N	N	X	X		X	X	X	X	Dup1=grab for VOC
6	Windrow 1, Sec 3, A	7-10-17	16:00	G	S	4	N	N		X						
7	Windrow 1, Sec 4, B	7-10-17	16:35	G	S	4	N	N		X						
8	Windrow 1, Sec 2, C	7-10-17	14:55	C	S	2	N	N	X			X	X	X	X	
9	Windrow 1, Sec 2, A	7-10-17	14:45	G	S	4	N	N		X						
10	Windrow 1, Sec 1, A	7-10-17	14:20	G	S	4	N	N		X						
11	Windrow 1, Sec 1, C	7-10-17	14:30	C	S	2	N	N	X			X	X	X	X	
12	Windrow 1, Sec 4, A	7-10-17	16:20	G	S	4	N	N		X						

RUSH

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd: _____ Corr'd: _____		Therm ID No.: _____
Relinquished by:	Company: Geosyntec	Date/Time: 7/10/2017 1830	Received by:	Company: TAPIT	Date/Time: 7/11/17 0830
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Form No. CA-C-WI-002, Rev. 4.3, dated 12/05/2013

TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
phone 412.963.7058 fax 412.963.2468

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☑ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Aron Krasnopoler	Site Contact: Jay Thompson	Date:	COC No:
Geosyntec Consultants	Tel/Fax: 401-381-4333	Lab Contact: Dave Dunlap	Carrier: FedEx	2 of 2 COCs
10211 Wincopin Circle, 4th Floor	Analysis Turnaround Time			Sampler:
Columbia, MD 21044	☐ CALENDAR DAYS ☑ WORKING DAYS			For Lab Use Only:
410-381-4333 Phone	TAT if different from Below _____			
410-381-4499 FAX	☐ 2 weeks			
Project Name: Former Sperry Remington Site - North	☐ 1 week 3 days as per Aron Krasnopoler 7/10 3:04p			
Site: Elmira	☐ 2 days			
P O # MN0832B	☑ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	PCBs - 8082A	VOCs - 8260C	TCLP - Lead	1010C	8270D_LL	7471B	9014	8260_LL	Sample Specific Notes:
13 Windrow 1, Sec 2, B	7/10/17	14:30	G	S	4	N	N		X							
14 Windrow 1, Sec 1, B	7-10-17	14:25	G	S	4	N	N		X							
Trip Blank	—	—	—	—	2	N	N								X	

RUSH

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temp. (°C): Obs'd: _____ Corr'd: _____	Therm ID No.: _____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time: 7/11/17 0830
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Form No. CA-C-WI-002, Rev. 4.3, dated 12/05/2013

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 180-68037-1

Login Number: 68037
List Number: 1
Creator: Dunlap, David A

List Source: TestAmerica Pittsburgh

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	False	COC not relinquished
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	see notation on COC
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

TestAmerica Job ID: 180-68140-1
Client Project/Site: Former Sperry Remington Site - North IRM
Revision: 1

For:
Geosyntec Consultants, Inc.
10211 Wincopin Circle
4'th Floor
Columbia, Maryland 21044

Attn: Mr. Aron Krasnopoler

Authorized for release by:
7/27/2017 10:31:08 AM

David Dunlap, Senior Project Manager
(412)963-2432
david.dunlap@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Job ID: 180-68140-1

Laboratory: TestAmerica Pittsburgh

Narrative

Job Narrative
180-68140-1

Comments
This is a revised report. At the request of the client, 2,4-dinitrotoluene, hexachlorobutadiene, hexachloroethane, nitrobenzene, pyridine, 2,4,5-trichlorophenol, and 2,4,6-trichlorophenol are now reported in the semivolatiles analysis.

Method(s) 8270D LL: The continuing calibration verification (CCV) analyzed in 180-217155 was above criteria for the following analytes: 1,4-dioxane and pentachlorophenol. As the CCV was high and these analytes were not detected in the associated samples, the results were reported.

Receipt
The samples were received on 7/14/2017 9:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 0.8º C, 0.8º C and 2.6º C.

Receipt Exceptions

The 3 coolers with the samples did not arrive at the lab. The client was notified. The VOA terra cores were recollected to ensure that the 48 hr holding times would be met. The coolers were received the following day within temperature . With the exception of the expired VOA terra cores, all other terra cores were logged into this job . The recollected VOA terra cores were logged into job 180-68219-2

GC/MS VOA
Method(s) 8260C: The continuing calibration verification (CCV) analyzed in batch 180-217186 was outside the method criteria for the following analyte: Carbon Tetrachloride. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte is considered estimated.

Method(s) 8260C: Internal standard responses were outside of acceptance limits for the following sample: W5, S1, A 71217 (180-68140-28). The sample shows evidence of matrix interference. Internal Standard TBA-d9 was low but is not used to calculate results for any target analytes. Internal Standard 1,4-Dichlorobenzene-d4 recovered low by three percent. This will be reported and narrated because when the sample was re-analyzed all internal standard recoveries were very low.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method(s) 8270D LL: The following samples was diluted due to the nature of the sample matrix (extract viscous, dark in color): W4, S2, C 71217 (180-68140-6), W5, S5, C 71217 (180-68140-18) and W5, S4, C 71217 (180-68140-21). This is the lowest dilution possible for these samples. Elevated reporting limits (RLs) are provided.

Method(s) 8270D LL: The following samples was diluted to bring the concentration of target analytes within the calibration range: W4, S1, C 71217 (180-68140-3), W5, S3, C 71217 (180-68140-24), W5, S2, C 71217 (180-68140-27) and W5, S1, C 71217 (180-68140-30). Elevated reporting limits (RLs) are provided.

Method(s) 8270D LL: The following sample was diluted due to the nature of the sample matrix (extract viscous, dark in color): DUP-6 (180-68140-31). This is the lowest dilution possible for these samples. Elevated reporting limits (RLs) are provided.

Method(s) 8270D LL: The continuing calibration verification (CCV) associated with batch 180-217242 recovered above the upper control limit for Pentachlorophenol. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method(s) 8270D LL: The continuing calibration verification (CCV) analyzed in batch 180-217242 was outside the method criteria for the following analyte(s): Benzo[g,h,i]perylene was >20% low. A CCV standard at or below the reporting limit (RL) was analyzed with the

Job ID: 180-68140-1 (Continued)

Laboratory: TestAmerica Pittsburgh (Continued)

affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method(s) 8270D LL: The following samples was diluted to bring the concentration of target analytes within the calibration range (extract viscous, dark in color): W4, S3, C 71217 (180-68140-9), W4, S4, C 71217 (180-68140-12) and W4, S5, C 71217 (180-68140-15). This is the lowest dilution possible for these samples. Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals
Method(s) 7471B: The matrix spike (MS) recoveries for 217422 were outside the control limits for mercury. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) 7471B: The matrix spike / matrix spike duplicate (MS/MSD) precision for 217422 was outside the control limits for mercury. Sample matrix interference is suspected.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	ISTD response or retention time outside acceptable limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc. TestAmerica Job ID: 180-68140-1
Project/Site: Former Sperry Remington Site - North IRM

Laboratory: TestAmerica Pittsburgh

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	11182	03-31-18

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
2540G		Solid	Percent Moisture
2540G		Solid	Percent Solids
8270D LL	3541	Solid	1,4-Dioxane

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68140-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-68140-3	W4, S1, C 71217	Solid	07/12/17 08:45	07/12/17 21:10
180-68140-6	W4, S2, C 71217	Solid	07/12/17 09:25	07/12/17 21:10
180-68140-9	W4, S3, C 71217	Solid	07/12/17 09:55	07/12/17 21:10
180-68140-12	W4, S4, C 71217	Solid	07/12/17 10:25	07/12/17 21:10
180-68140-15	W4, S5, C 71217	Solid	07/12/17 11:55	07/12/17 21:10
180-68140-16	W5, S5, A 71217	Solid	07/12/17 12:25	07/12/17 21:10
180-68140-17	W5, S5, B 71217	Solid	07/12/17 12:30	07/12/17 21:10
180-68140-18	W5, S5, C 71217	Solid	07/12/17 12:35	07/12/17 21:10
180-68140-19	W5, S4, A 71217	Solid	07/12/17 12:45	07/12/17 21:10
180-68140-20	W5, S4, B 71217	Solid	07/12/17 12:50	07/12/17 21:10
180-68140-21	W5, S4, C 71217	Solid	07/12/17 12:55	07/12/17 21:10
180-68140-22	W5, S3, A 71217	Solid	07/12/17 13:15	07/12/17 21:10
180-68140-23	W5, S3, B 71217	Solid	07/12/17 13:20	07/12/17 21:10
180-68140-24	W5, S3, C 71217	Solid	07/12/17 13:25	07/12/17 21:10
180-68140-25	W5, S2, A 71217	Solid	07/12/17 13:45	07/12/17 21:10
180-68140-26	W5, S2, B 71217	Solid	07/12/17 13:50	07/12/17 21:10
180-68140-27	W5, S2, C 71217	Solid	07/12/17 13:55	07/12/17 21:10
180-68140-28	W5, S1, A 71217	Solid	07/12/17 14:15	07/12/17 21:10
180-68140-29	W5, S1, B 71217	Solid	07/12/17 14:20	07/12/17 21:10
180-68140-30	W5, S1, C 71217	Solid	07/12/17 14:25	07/12/17 21:10
180-68140-31	DUP-6	Solid	07/12/17 00:00	07/12/17 21:10
180-68140-32	DUP-7	Solid	07/12/17 00:00	07/12/17 21:10
180-68140-33	DUP-8	Solid	07/12/17 00:00	07/12/17 21:10
180-68140-34	TRIP BLANK 1	Water	07/12/17 00:00	07/12/17 21:10
180-68140-35	TRIP BLANK 2	Water	07/12/17 00:00	07/12/17 21:10

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68140-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL PIT
8260C	Volatile Organic Compounds (GC/MS)	SW846	TAL PIT
8270D LL	Semivolatile Organic Compounds by GC/MS - Low Level	SW846	TAL PIT
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL PIT
6010C	Metals (ICP)	SW846	TAL PIT
7471B	Mercury (CVAA)	SW846	TAL PIT
2540G	SM 2540G	SM22	TAL PIT
9014	Cyanide	SW846	TAL PIT

Protocol References:

SM22 = SM22

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Client Sample ID: W4, S1, C 71217

Lab Sample ID: 180-68140-3

Date Collected: 07/12/17 08:45

Matrix: Solid

Date Received: 07/12/17 21:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			217112	07/14/17 13:15	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W4, S1, C 71217

Lab Sample ID: 180-68140-3

Date Collected: 07/12/17 08:45

Matrix: Solid

Date Received: 07/12/17 21:10

Percent Solids: 92.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.2 g	0.5 mL	217139	07/15/17 04:42	BAP	TAL PIT
Total/NA	Analysis	8270D LL		4	1 mL	1 mL	217242	07/17/17 17:18	DLF	TAL PIT
	Instrument ID: CH71									
Total/NA	Prep	3541			15.5 g	20.0 mL	217140	07/15/17 04:45	BAP	TAL PIT
Total/NA	Analysis	8082A		1			217178	07/15/17 22:33	JMO	TAL PIT
	Instrument ID: CHGC16									
Total/NA	Cleanup	3665A			2 mL	2 mL	217281	07/17/17 12:16	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	217282	07/17/17 12:17	JMO	TAL PIT
Total/NA	Prep	3050B			1.01 g	100 mL	217101	07/14/17 11:31	CRM	TAL PIT
Total/NA	Analysis	6010C		1			217275	07/17/17 08:08	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.64 g	100 mL	217422	07/18/17 14:49	RJR	TAL PIT
Total/NA	Analysis	7471B		1			217578	07/19/17 11:59	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.12 g	50 mL	217382	07/18/17 10:56	JAS	TAL PIT
Total/NA	Analysis	9014		1			217445	07/18/17 14:07	JAS	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: W4, S2, C 71217

Lab Sample ID: 180-68140-6

Date Collected: 07/12/17 09:25

Matrix: Solid

Date Received: 07/12/17 21:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			217112	07/14/17 13:15	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W4, S2, C 71217

Lab Sample ID: 180-68140-6

Date Collected: 07/12/17 09:25

Matrix: Solid

Date Received: 07/12/17 21:10

Percent Solids: 90.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.1 g	0.5 mL	217139	07/15/17 04:42	BAP	TAL PIT
Total/NA	Analysis	8270D LL		4	1 mL	1 mL	217242	07/17/17 17:46	DLF	TAL PIT
	Instrument ID: CH71									
Total/NA	Prep	3541			15.1 g	20.0 mL	217140	07/15/17 04:45	BAP	TAL PIT

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68140-1

Client Sample ID: W4, S2, C 71217

Date Collected: 07/12/17 09:25
Date Received: 07/12/17 21:10

Lab Sample ID: 180-68140-6

Matrix: Solid
Percent Solids: 90.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8082A		1			217178	07/15/17 22:55	JMO	TAL PIT
	Instrument ID: CHGC16									
Total/NA	Cleanup	3665A			2 mL	2 mL	217281	07/17/17 12:16	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	217282	07/17/17 12:17	JMO	TAL PIT
Total/NA	Prep	3050B			0.97 g	100 mL	217101	07/14/17 11:31	CRM	TAL PIT
Total/NA	Analysis	6010C		1			217275	07/17/17 08:34	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.58 g	100 mL	217422	07/18/17 14:49	RJR	TAL PIT
Total/NA	Analysis	7471B		1			217578	07/19/17 12:05	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.18 g	50 mL	217382	07/18/17 10:56	JAS	TAL PIT
Total/NA	Analysis	9014		1			217445	07/18/17 14:09	JAS	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: W4, S3, C 71217

Date Collected: 07/12/17 09:55
Date Received: 07/12/17 21:10

Lab Sample ID: 180-68140-9

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			217112	07/14/17 13:15	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W4, S3, C 71217

Date Collected: 07/12/17 09:55
Date Received: 07/12/17 21:10

Lab Sample ID: 180-68140-9

Matrix: Solid
Percent Solids: 91.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.4 g	0.5 mL	217139	07/15/17 04:42	BAP	TAL PIT
Total/NA	Analysis	8270D LL		10	1 mL	1 mL	217155	07/15/17 20:01	DLF	TAL PIT
	Instrument ID: CH71									
Total/NA	Prep	3541			15.4 g	20.0 mL	217140	07/15/17 04:45	BAP	TAL PIT
Total/NA	Analysis	8082A		1			217178	07/15/17 23:16	JMO	TAL PIT
	Instrument ID: CHGC16									
Total/NA	Cleanup	3665A			2 mL	2 mL	217281	07/17/17 12:16	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	217282	07/17/17 12:17	JMO	TAL PIT
Total/NA	Prep	3050B			1.00 g	100 mL	217101	07/14/17 11:31	CRM	TAL PIT
Total/NA	Analysis	6010C		1			217275	07/17/17 08:39	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.70 g	100 mL	217422	07/18/17 14:49	RJR	TAL PIT
Total/NA	Analysis	7471B		1			217578	07/19/17 12:07	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.16 g	50 mL	217382	07/18/17 10:56	JAS	TAL PIT
Total/NA	Analysis	9014		1			217445	07/18/17 14:11	JAS	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: W4, S4, C 71217
Date Collected: 07/12/17 10:25
Date Received: 07/12/17 21:10

Lab Sample ID: 180-68140-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			217112	07/14/17 13:15	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W4, S4, C 71217
Date Collected: 07/12/17 10:25
Date Received: 07/12/17 21:10

Lab Sample ID: 180-68140-12
Matrix: Solid
Percent Solids: 89.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.5 g	0.5 mL	217139	07/15/17 04:42	BAP	TAL PIT
Total/NA	Analysis	8270D LL		10	1 mL	1 mL	217155	07/15/17 20:28	DLF	TAL PIT
	Instrument ID: CH71									
Total/NA	Prep	3541			15.0 g	20.0 mL	217140	07/15/17 04:45	BAP	TAL PIT
Total/NA	Analysis	8082A		1			217178	07/15/17 23:38	JMO	TAL PIT
	Instrument ID: CHGC16									
Total/NA	Cleanup	3665A			2 mL	2 mL	217281	07/17/17 12:16	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	217282	07/17/17 12:17	JMO	TAL PIT
Total/NA	Prep	3050B			1.00 g	100 mL	217101	07/14/17 11:31	CRM	TAL PIT
Total/NA	Analysis	6010C		1			217275	07/17/17 08:44	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.59 g	100 mL	217422	07/18/17 14:49	RJR	TAL PIT
Total/NA	Analysis	7471B		1			217578	07/19/17 12:09	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.11 g	50 mL	217382	07/18/17 10:56	JAS	TAL PIT
Total/NA	Analysis	9014		1			217445	07/18/17 14:12	JAS	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: W4, S5, C 71217
Date Collected: 07/12/17 11:55
Date Received: 07/12/17 21:10

Lab Sample ID: 180-68140-15
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			217112	07/14/17 13:15	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W4, S5, C 71217
Date Collected: 07/12/17 11:55
Date Received: 07/12/17 21:10

Lab Sample ID: 180-68140-15
Matrix: Solid
Percent Solids: 90.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	0.5 mL	217139	07/15/17 04:42	BAP	TAL PIT
Total/NA	Analysis	8270D LL		4	1 mL	1 mL	217155	07/15/17 20:56	DLF	TAL PIT
	Instrument ID: CH71									
Total/NA	Prep	3541			15.3 g	20.0 mL	217140	07/15/17 04:45	BAP	TAL PIT

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68140-1

Client Sample ID: W4, S5, C 71217

Lab Sample ID: 180-68140-15
Date Collected: 07/12/17 11:55
Matrix: Solid
Date Received: 07/12/17 21:10
Percent Solids: 90.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8082A		1			217178	07/15/17 23:58	JMO	TAL PIT
	Instrument ID: CHGC16									
Total/NA	Cleanup	3665A			2 mL	2 mL	217281	07/17/17 12:16	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	217282	07/17/17 12:17	JMO	TAL PIT
Total/NA	Prep	3050B			1.03 g	100 mL	217101	07/14/17 11:31	CRM	TAL PIT
Total/NA	Analysis	6010C		1			217275	07/17/17 08:59	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.61 g	100 mL	217422	07/18/17 14:49	RJR	TAL PIT
Total/NA	Analysis	7471B		1			217578	07/19/17 12:11	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.11 g	50 mL	217382	07/18/17 10:56	JAS	TAL PIT
Total/NA	Analysis	9014		1			217445	07/18/17 14:14	JAS	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: W5, S5, A 71217

Lab Sample ID: 180-68140-16
Date Collected: 07/12/17 12:25
Matrix: Solid
Date Received: 07/12/17 21:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			217112	07/14/17 13:15	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W5, S5, A 71217

Lab Sample ID: 180-68140-16
Date Collected: 07/12/17 12:25
Matrix: Solid
Date Received: 07/12/17 21:10
Percent Solids: 90.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.9749 g	5 mL	217187	07/16/17 09:00	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	217186	07/16/17 15:44	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W5, S5, B 71217

Lab Sample ID: 180-68140-17
Date Collected: 07/12/17 12:30
Matrix: Solid
Date Received: 07/12/17 21:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			217112	07/14/17 13:15	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W5, S5, B 71217

Lab Sample ID: 180-68140-17
Date Collected: 07/12/17 12:30
Matrix: Solid
Date Received: 07/12/17 21:10
Percent Solids: 86.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.9115 g	5 mL	217220	07/17/17 05:28	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	217209	07/17/17 12:23	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W5, S5, C 71217

Lab Sample ID: 180-68140-18
Date Collected: 07/12/17 12:35
Matrix: Solid
Date Received: 07/12/17 21:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			217112	07/14/17 13:15	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W5, S5, C 71217

Lab Sample ID: 180-68140-18
Date Collected: 07/12/17 12:35
Matrix: Solid
Date Received: 07/12/17 21:10
Percent Solids: 90.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.3 g	0.5 mL	217139	07/15/17 04:42	BAP	TAL PIT
Total/NA	Analysis	8270D LL		3	1 mL	1 mL	217242	07/17/17 18:13	DLF	TAL PIT
	Instrument ID: CH71									
Total/NA	Prep	3541			15.2 g	20.0 mL	217140	07/15/17 04:45	BAP	TAL PIT
Total/NA	Analysis	8082A		1			217178	07/16/17 00:20	JMO	TAL PIT
	Instrument ID: CHGC16									
Total/NA	Cleanup	3665A			2 mL	2 mL	217281	07/17/17 12:16	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	217282	07/17/17 12:17	JMO	TAL PIT
Total/NA	Prep	3050B			0.94 g	100 mL	217101	07/14/17 11:31	CRM	TAL PIT
Total/NA	Analysis	6010C		1			217275	07/17/17 09:04	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.61 g	100 mL	217422	07/18/17 14:49	RJR	TAL PIT
Total/NA	Analysis	7471B		1			217578	07/19/17 12:13	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.15 g	50 mL	217382	07/18/17 10:56	JAS	TAL PIT
Total/NA	Analysis	9014		1			217445	07/18/17 14:16	JAS	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: W5, S4, A 71217

Lab Sample ID: 180-68140-19
Date Collected: 07/12/17 12:45
Matrix: Solid
Date Received: 07/12/17 21:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			217112	07/14/17 13:15	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W5, S4, A 71217

Date Collected: 07/12/17 12:45
Date Received: 07/12/17 21:10

Lab Sample ID: 180-68140-19
Matrix: Solid
Percent Solids: 92.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.3341 g	5 mL	217220	07/17/17 05:28	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	217209	07/17/17 12:01	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W5, S4, B 71217

Date Collected: 07/12/17 12:50
Date Received: 07/12/17 21:10

Lab Sample ID: 180-68140-20
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			217112	07/14/17 13:15	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W5, S4, B 71217

Date Collected: 07/12/17 12:50
Date Received: 07/12/17 21:10

Lab Sample ID: 180-68140-20
Matrix: Solid
Percent Solids: 85.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.893 g	5 mL	217187	07/16/17 09:00	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	217186	07/16/17 16:53	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W5, S4, C 71217

Date Collected: 07/12/17 12:55
Date Received: 07/12/17 21:10

Lab Sample ID: 180-68140-21
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			217112	07/14/17 13:15	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W5, S4, C 71217

Date Collected: 07/12/17 12:55
Date Received: 07/12/17 21:10

Lab Sample ID: 180-68140-21
Matrix: Solid
Percent Solids: 91.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	0.5 mL	217139	07/15/17 04:42	BAP	TAL PIT
Total/NA	Analysis	8270D LL		5	1 mL	1 mL	217242	07/17/17 18:41	DLF	TAL PIT
	Instrument ID: CH71									
Total/NA	Prep	3541			15.3 g	20.0 mL	217140	07/15/17 04:45	BAP	TAL PIT
Total/NA	Analysis	8082A		1			217178	07/16/17 00:42	JMO	TAL PIT
	Instrument ID: CHGC16									
Total/NA	Cleanup	3665A			2 mL	2 mL	217281	07/17/17 12:16	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	217282	07/17/17 12:17	JMO	TAL PIT
Total/NA	Prep	3050B			0.96 g	100 mL	217101	07/14/17 11:31	CRM	TAL PIT

Client Sample ID: W5, S4, C 71217

Lab Sample ID: 180-68140-21
Date Collected: 07/12/17 12:55
Matrix: Solid
Date Received: 07/12/17 21:10
Percent Solids: 91.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	6010C		1			217275	07/17/17 09:10	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.60 g	100 mL	217422	07/18/17 14:49	RJR	TAL PIT
Total/NA	Analysis	7471B		1			217578	07/19/17 12:20	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.13 g	50 mL	217382	07/18/17 10:56	JAS	TAL PIT
Total/NA	Analysis	9014		1			217445	07/18/17 14:21	JAS	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: W5, S3, A 71217

Lab Sample ID: 180-68140-22
Date Collected: 07/12/17 13:15
Matrix: Solid
Date Received: 07/12/17 21:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			217112	07/14/17 13:15	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W5, S3, A 71217

Lab Sample ID: 180-68140-22
Date Collected: 07/12/17 13:15
Matrix: Solid
Date Received: 07/12/17 21:10
Percent Solids: 93.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.8859 g	5 mL	217220	07/17/17 05:28	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	217209	07/17/17 12:46	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W5, S3, B 71217

Lab Sample ID: 180-68140-23
Date Collected: 07/12/17 13:20
Matrix: Solid
Date Received: 07/12/17 21:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			217112	07/14/17 13:15	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W5, S3, B 71217

Lab Sample ID: 180-68140-23
Date Collected: 07/12/17 13:20
Matrix: Solid
Date Received: 07/12/17 21:10
Percent Solids: 92.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.2331 g	5 mL	217187	07/16/17 09:00	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	217186	07/16/17 17:38	KLG	TAL PIT
	Instrument ID: CHHP3									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68140-1

Client Sample ID: W5, S3, C 71217
Date Collected: 07/12/17 13:25
Date Received: 07/12/17 21:10

Lab Sample ID: 180-68140-24
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			217112	07/14/17 13:15	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W5, S3, C 71217
Date Collected: 07/12/17 13:25
Date Received: 07/12/17 21:10

Lab Sample ID: 180-68140-24
Matrix: Solid
Percent Solids: 90.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.2 g	0.5 mL	217139	07/15/17 04:42	BAP	TAL PIT
Total/NA	Analysis	8270D LL		2	1 mL	1 mL	217242	07/17/17 19:08	DLF	TAL PIT
	Instrument ID: CH71									
Total/NA	Prep	3541			15.4 g	20.0 mL	217140	07/15/17 04:45	BAP	TAL PIT
Total/NA	Analysis	8082A		1			217178	07/16/17 01:47	JMO	TAL PIT
	Instrument ID: CHGC16									
Total/NA	Cleanup	3665A			2 mL	2 mL	217281	07/17/17 12:16	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	217282	07/17/17 12:17	JMO	TAL PIT
Total/NA	Prep	3050B			0.93 g	100 mL	217101	07/14/17 11:31	CRM	TAL PIT
Total/NA	Analysis	6010C		1			217275	07/17/17 09:15	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.61 g	100 mL	217422	07/18/17 14:49	RJR	TAL PIT
Total/NA	Analysis	7471B		1			217578	07/19/17 12:22	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.07 g	50 mL	217382	07/18/17 10:56	JAS	TAL PIT
Total/NA	Analysis	9014		1			217445	07/18/17 14:23	JAS	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: W5, S2, A 71217
Date Collected: 07/12/17 13:45
Date Received: 07/12/17 21:10

Lab Sample ID: 180-68140-25
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			217112	07/14/17 13:15	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W5, S2, A 71217
Date Collected: 07/12/17 13:45
Date Received: 07/12/17 21:10

Lab Sample ID: 180-68140-25
Matrix: Solid
Percent Solids: 94.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.0966 g	5 mL	217187	07/16/17 09:00	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	217186	07/16/17 18:01	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W5, S2, B 71217

Lab Sample ID: 180-68140-26
Date Collected: 07/12/17 13:50
Matrix: Solid
Date Received: 07/12/17 21:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			217112	07/14/17 13:15	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W5, S2, B 71217

Lab Sample ID: 180-68140-26
Date Collected: 07/12/17 13:50
Matrix: Solid
Date Received: 07/12/17 21:10
Percent Solids: 92.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.2075 g	5 mL	217187	07/16/17 09:00	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	217186	07/16/17 18:23	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W5, S2, C 71217

Lab Sample ID: 180-68140-27
Date Collected: 07/12/17 13:55
Matrix: Solid
Date Received: 07/12/17 21:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			217112	07/14/17 13:15	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W5, S2, C 71217

Lab Sample ID: 180-68140-27
Date Collected: 07/12/17 13:55
Matrix: Solid
Date Received: 07/12/17 21:10
Percent Solids: 91.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.4 g	0.5 mL	217139	07/15/17 04:42	BAP	TAL PIT
Total/NA	Analysis	8270D LL		10	1 mL	1 mL	217242	07/17/17 19:35	DLF	TAL PIT
	Instrument ID: CH71									
Total/NA	Prep	3541			15.1 g	20.0 mL	217140	07/15/17 04:45	BAP	TAL PIT
Total/NA	Analysis	8082A		1			217178	07/16/17 02:09	JMO	TAL PIT
	Instrument ID: CHGC16									
Total/NA	Cleanup	3665A			2 mL	2 mL	217281	07/17/17 12:16	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	217282	07/17/17 12:17	JMO	TAL PIT
Total/NA	Prep	3050B			0.95 g	100 mL	217101	07/14/17 11:31	CRM	TAL PIT
Total/NA	Analysis	6010C		1			217275	07/17/17 09:20	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.57 g	100 mL	217422	07/18/17 14:49	RJR	TAL PIT
Total/NA	Analysis	7471B		1			217578	07/19/17 12:24	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.13 g	50 mL	217382	07/18/17 10:56	JAS	TAL PIT
Total/NA	Analysis	9014		1			217445	07/18/17 14:25	JAS	TAL PIT
	Instrument ID: SEAL2									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68140-1

Client Sample ID: W5, S1, A 71217
Date Collected: 07/12/17 14:15
Date Received: 07/12/17 21:10

Lab Sample ID: 180-68140-28
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			217112	07/14/17 13:15	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W5, S1, A 71217
Date Collected: 07/12/17 14:15
Date Received: 07/12/17 21:10

Lab Sample ID: 180-68140-28
Matrix: Solid
Percent Solids: 92.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.9319 g	5 mL	217187	07/16/17 09:00	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	217186	07/16/17 18:47	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W5, S1, B 71217
Date Collected: 07/12/17 14:20
Date Received: 07/12/17 21:10

Lab Sample ID: 180-68140-29
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			217112	07/14/17 13:15	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W5, S1, B 71217
Date Collected: 07/12/17 14:20
Date Received: 07/12/17 21:10

Lab Sample ID: 180-68140-29
Matrix: Solid
Percent Solids: 94.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.5331 g	5 mL	217187	07/16/17 09:00	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	217186	07/16/17 19:09	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W5, S1, C 71217
Date Collected: 07/12/17 14:25
Date Received: 07/12/17 21:10

Lab Sample ID: 180-68140-30
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			217112	07/14/17 13:15	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W5, S1, C 71217
Date Collected: 07/12/17 14:25
Date Received: 07/12/17 21:10

Lab Sample ID: 180-68140-30
Matrix: Solid
Percent Solids: 93.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.1 g	0.5 mL	217139	07/15/17 04:42	BAP	TAL PIT

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68140-1

Client Sample ID: W5, S1, C 71217

Date Collected: 07/12/17 14:25
Date Received: 07/12/17 21:10

Lab Sample ID: 180-68140-30

Matrix: Solid
Percent Solids: 93.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8270D LL		4	1 mL	1 mL	217242	07/17/17 20:03	DLF	TAL PIT
	Instrument ID: CH71									
Total/NA	Prep	3541			15.1 g	20.0 mL	217140	07/15/17 04:45	BAP	TAL PIT
Total/NA	Analysis	8082A		1			217178	07/16/17 02:31	JMO	TAL PIT
	Instrument ID: CHGC16									
Total/NA	Cleanup	3665A			2 mL	2 mL	217281	07/17/17 12:16	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	217282	07/17/17 12:17	JMO	TAL PIT
Total/NA	Prep	3050B			0.99 g	100 mL	217101	07/14/17 11:31	CRM	TAL PIT
Total/NA	Analysis	6010C		1			217275	07/17/17 09:25	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.63 g	100 mL	217422	07/18/17 14:49	RJR	TAL PIT
Total/NA	Analysis	7471B		1			217578	07/19/17 12:26	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.07 g	50 mL	217382	07/18/17 10:56	JAS	TAL PIT
Total/NA	Analysis	9014		1			217445	07/18/17 14:26	JAS	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: DUP-6

Date Collected: 07/12/17 00:00
Date Received: 07/12/17 21:10

Lab Sample ID: 180-68140-31

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			217115	07/14/17 14:00	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: DUP-6

Date Collected: 07/12/17 00:00
Date Received: 07/12/17 21:10

Lab Sample ID: 180-68140-31

Matrix: Solid
Percent Solids: 88.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.2 g	0.5 mL	217139	07/15/17 04:42	BAP	TAL PIT
Total/NA	Analysis	8270D LL		20	1 mL	1 mL	217242	07/17/17 20:30	DLF	TAL PIT
	Instrument ID: CH71									
Total/NA	Prep	3541			15.3 g	20.0 mL	217140	07/15/17 04:45	BAP	TAL PIT
Total/NA	Analysis	8082A		1			217178	07/16/17 02:52	JMO	TAL PIT
	Instrument ID: CHGC16									
Total/NA	Cleanup	3665A			2 mL	2 mL	217281	07/17/17 12:16	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	217282	07/17/17 12:17	JMO	TAL PIT
Total/NA	Prep	3050B			0.96 g	100 mL	217101	07/14/17 11:31	CRM	TAL PIT
Total/NA	Analysis	6010C		1			217275	07/17/17 09:30	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.56 g	100 mL	217422	07/18/17 14:49	RJR	TAL PIT
Total/NA	Analysis	7471B		1			217578	07/19/17 12:28	RJR	TAL PIT
	Instrument ID: K									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68140-1

Client Sample ID: DUP-6
Date Collected: 07/12/17 00:00
Date Received: 07/12/17 21:10

Lab Sample ID: 180-68140-31
Matrix: Solid
Percent Solids: 88.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	9010C			1.16 g	50 mL	217382	07/18/17 10:56	JAS	TAL PIT
Total/NA	Analysis	9014		1			217445	07/18/17 14:28	JAS	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: DUP-7
Date Collected: 07/12/17 00:00
Date Received: 07/12/17 21:10

Lab Sample ID: 180-68140-32
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			217115	07/14/17 14:00	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: DUP-7
Date Collected: 07/12/17 00:00
Date Received: 07/12/17 21:10

Lab Sample ID: 180-68140-32
Matrix: Solid
Percent Solids: 92.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.903 g	5 mL	217220	07/17/17 05:28	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	217209	07/17/17 13:31	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: DUP-8
Date Collected: 07/12/17 00:00
Date Received: 07/12/17 21:10

Lab Sample ID: 180-68140-33
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			217115	07/14/17 14:00	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: DUP-8
Date Collected: 07/12/17 00:00
Date Received: 07/12/17 21:10

Lab Sample ID: 180-68140-33
Matrix: Solid
Percent Solids: 90.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.7938 g	5 mL	217220	07/17/17 05:28	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	217209	07/17/17 13:54	KLG	TAL PIT
	Instrument ID: CHHP3									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68140-1

Client Sample ID: TRIP BLANK 1

Lab Sample ID: 180-68140-34
Matrix: Water
Date Collected: 07/12/17 00:00
Date Received: 07/12/17 21:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	217455	07/19/17 12:28	FBB	TAL PIT
	Instrument ID: CHHP6									

Client Sample ID: TRIP BLANK 2

Lab Sample ID: 180-68140-35
Matrix: Water
Date Collected: 07/12/17 00:00
Date Received: 07/12/17 21:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	217455	07/19/17 12:52	FBB	TAL PIT
	Instrument ID: CHHP6									

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Analyst References:

Lab: TAL PIT

Batch Type: Cleanup

JMO = John Oravec

Batch Type: Prep

BAP = Brian Pino

CRM = Caitlin McEvoy

JAS = Joshua Schmidt

KLG = Kathy Gordon

RJR = Ron Rosenbaum

Batch Type: Analysis

DLF = Donald Ferguson

FBB = Frank Bungard

JAS = Joshua Schmidt

JMO = John Oravec

JTL = Justin Landry

KLG = Kathy Gordon

RJG = Rob Good

RJR = Ron Rosenbaum

Client Sample ID: W4, S1, C 71217
Date Collected: 07/12/17 08:45
Date Received: 07/12/17 21:10

Lab Sample ID: 180-68140-3
Matrix: Solid
Percent Solids: 92.0

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.012**	**J**	0.029	0.0096	mg/Kg	☼	07/15/17 04:42	07/17/17 17:18	4
Acenaphthylene	**0.20**		0.029	0.0097	mg/Kg	☼	07/15/17 04:42	07/17/17 17:18	4
Anthracene	**0.27**		0.029	0.011	mg/Kg	☼	07/15/17 04:42	07/17/17 17:18	4
Benzo[a]anthracene	**0.77**		0.029	0.011	mg/Kg	☼	07/15/17 04:42	07/17/17 17:18	4
Benzo[a]pyrene	**0.75**		0.029	0.012	mg/Kg	☼	07/15/17 04:42	07/17/17 17:18	4
Benzo[b]fluoranthene	**0.87**		0.029	0.012	mg/Kg	☼	07/15/17 04:42	07/17/17 17:18	4
Benzo[g,h,i]perylene	**0.83**		0.029	0.012	mg/Kg	☼	07/15/17 04:42	07/17/17 17:18	4
Benzo[k]fluoranthene	**0.34**		0.029	0.0099	mg/Kg	☼	07/15/17 04:42	07/17/17 17:18	4
Chrysene	**0.70**		0.029	0.011	mg/Kg	☼	07/15/17 04:42	07/17/17 17:18	4
Dibenz(a,h)anthracene	**0.21**		0.029	0.012	mg/Kg	☼	07/15/17 04:42	07/17/17 17:18	4
Dibenzofuran	**0.031**	**J**	0.14	0.011	mg/Kg	☼	07/15/17 04:42	07/17/17 17:18	4
2,4-Dinitrotoluene	ND		0.14	0.019	mg/Kg	☼	07/15/17 04:42	07/17/17 17:18	4
1,4-Dioxane	ND		0.29	0.022	mg/Kg	☼	07/15/17 04:42	07/17/17 17:18	4
Fluoranthene	**1.3**		0.029	0.011	mg/Kg	☼	07/15/17 04:42	07/17/17 17:18	4
Fluorene	**0.027**	**J**	0.029	0.010	mg/Kg	☼	07/15/17 04:42	07/17/17 17:18	4
Hexachlorobenzene	ND		0.029	0.012	mg/Kg	☼	07/15/17 04:42	07/17/17 17:18	4
Hexachlorobutadiene	ND		0.029	0.0090	mg/Kg	☼	07/15/17 04:42	07/17/17 17:18	4
Hexachloroethane	ND		0.14	0.010	mg/Kg	☼	07/15/17 04:42	07/17/17 17:18	4
Indeno[1,2,3-cd]pyrene	**0.72**		0.029	0.011	mg/Kg	☼	07/15/17 04:42	07/17/17 17:18	4
2-Methylphenol	ND		0.14	0.013	mg/Kg	☼	07/15/17 04:42	07/17/17 17:18	4
Methylphenol, 3 & 4	ND		0.14	0.013	mg/Kg	☼	07/15/17 04:42	07/17/17 17:18	4
Naphthalene	**0.13**		0.029	0.010	mg/Kg	☼	07/15/17 04:42	07/17/17 17:18	4
Nitrobenzene	ND		0.29	0.011	mg/Kg	☼	07/15/17 04:42	07/17/17 17:18	4
Pentachlorophenol	ND		0.73	0.27	mg/Kg	☼	07/15/17 04:42	07/17/17 17:18	4
Phenanthrene	**0.61**		0.029	0.012	mg/Kg	☼	07/15/17 04:42	07/17/17 17:18	4
Phenol	ND		0.14	0.019	mg/Kg	☼	07/15/17 04:42	07/17/17 17:18	4
Pyrene	**1.0**		0.029	0.013	mg/Kg	☼	07/15/17 04:42	07/17/17 17:18	4
Pyridine	ND		0.14	0.014	mg/Kg	☼	07/15/17 04:42	07/17/17 17:18	4
2,4,5-Trichlorophenol	ND		0.14	0.014	mg/Kg	☼	07/15/17 04:42	07/17/17 17:18	4
2,4,6-Trichlorophenol	ND		0.14	0.013	mg/Kg	☼	07/15/17 04:42	07/17/17 17:18	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*47*		*42 - 100*	*07/15/17 04:42*	*07/17/17 17:18*	*4*
2-Fluorophenol (Surr)	*36*		*21 - 107*	*07/15/17 04:42*	*07/17/17 17:18*	*4*
Nitrobenzene-d5 (Surr)	*47*		*35 - 109*	*07/15/17 04:42*	*07/17/17 17:18*	*4*
Phenol-d5 (Surr)	*37*		*29 - 105*	*07/15/17 04:42*	*07/17/17 17:18*	*4*
Terphenyl-d14 (Surr)	*44*		*36 - 113*	*07/15/17 04:42*	*07/17/17 17:18*	*4*
2,4,6-Tribromophenol (Surr)	*49*		*20 - 134*	*07/15/17 04:42*	*07/17/17 17:18*	*4*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.018	0.0093	mg/Kg	☼	07/15/17 04:45	07/15/17 22:33	1
PCB-1221	ND		0.018	0.0091	mg/Kg	☼	07/15/17 04:45	07/15/17 22:33	1
PCB-1232	ND		0.018	0.0069	mg/Kg	☼	07/15/17 04:45	07/15/17 22:33	1
PCB-1242	ND		0.018	0.014	mg/Kg	☼	07/15/17 04:45	07/15/17 22:33	1
PCB-1248	**0.55**		0.018	0.0084	mg/Kg	☼	07/15/17 04:45	07/15/17 22:33	1
PCB-1254	**0.39**		0.018	0.0077	mg/Kg	☼	07/15/17 04:45	07/15/17 22:33	1
PCB-1260	**0.12**		0.018	0.012	mg/Kg	☼	07/15/17 04:45	07/15/17 22:33	1
PCB-1262	ND		0.018	0.013	mg/Kg	☼	07/15/17 04:45	07/15/17 22:33	1
PCB-1268	ND		0.018	0.0053	mg/Kg	☼	07/15/17 04:45	07/15/17 22:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	73		23 - 150	07/15/17 04:45	07/15/17 22:33	1
DCB Decachlorobiphenyl (Surr)	77		23 - 150	07/15/17 04:45	07/15/17 22:33	1
Tetrachloro-m-xylene (Surr)	71		27 - 138	07/15/17 04:45	07/15/17 22:33	1
Tetrachloro-m-xylene (Surr)	73		27 - 138	07/15/17 04:45	07/15/17 22:33	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	12		1.1	0.47	mg/Kg	☼	07/14/17 11:31	07/17/17 08:08	1
Barium	77		22	5.8	mg/Kg	☼	07/14/17 11:31	07/17/17 08:08	1
Beryllium	0.34	J	0.43	0.11	mg/Kg	☼	07/14/17 11:31	07/17/17 08:08	1
Cadmium	0.19	J	0.54	0.12	mg/Kg	☼	07/14/17 11:31	07/17/17 08:08	1
Chromium	9.9		0.54	0.14	mg/Kg	☼	07/14/17 11:31	07/17/17 08:08	1
Copper	26		2.7	0.83	mg/Kg	☼	07/14/17 11:31	07/17/17 08:08	1
Lead	34	F1	1.1	0.35	mg/Kg	☼	07/14/17 11:31	07/17/17 08:08	1
Manganese	550		1.6	0.44	mg/Kg	☼	07/14/17 11:31	07/17/17 08:08	1
Nickel	19		4.3	0.97	mg/Kg	☼	07/14/17 11:31	07/17/17 08:08	1
Selenium	ND		1.1	0.43	mg/Kg	☼	07/14/17 11:31	07/17/17 08:08	1
Silver	ND		0.54	0.18	mg/Kg	☼	07/14/17 11:31	07/17/17 08:08	1
Zinc	82		2.2	1.1	mg/Kg	☼	07/14/17 11:31	07/17/17 08:08	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.16	F1 F2	0.034	0.0075	mg/Kg	☼	07/18/17 14:49	07/19/17 11:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	8.0		0.1	0.1	%			07/14/17 13:15	1
Percent Solids	92.0		0.1	0.1	%			07/14/17 13:15	1
Cyanide, Total	ND		0.49	0.15	mg/Kg	☼	07/18/17 10:56	07/18/17 14:07	1

Client Sample ID: W4, S2, C 71217 **Lab Sample ID: 180-68140-6**
Date Collected: 07/12/17 09:25 **Matrix: Solid**
Date Received: 07/12/17 21:10 **Percent Solids: 90.4**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.029	0.0099	mg/Kg	☼	07/15/17 04:42	07/17/17 17:46	4
Acenaphthylene	0.084		0.029	0.0099	mg/Kg	☼	07/15/17 04:42	07/17/17 17:46	4
Anthracene	0.089		0.029	0.011	mg/Kg	☼	07/15/17 04:42	07/17/17 17:46	4
Benzo[a]anthracene	0.28		0.029	0.012	mg/Kg	☼	07/15/17 04:42	07/17/17 17:46	4
Benzo[a]pyrene	0.31		0.029	0.012	mg/Kg	☼	07/15/17 04:42	07/17/17 17:46	4
Benzo[b]fluoranthene	0.40		0.029	0.013	mg/Kg	☼	07/15/17 04:42	07/17/17 17:46	4
Benzo[g,h,i]perylene	0.41		0.029	0.013	mg/Kg	☼	07/15/17 04:42	07/17/17 17:46	4
Benzo[k]fluoranthene	0.11		0.029	0.010	mg/Kg	☼	07/15/17 04:42	07/17/17 17:46	4
Chrysene	0.27		0.029	0.011	mg/Kg	☼	07/15/17 04:42	07/17/17 17:46	4
Dibenz(a,h)anthracene	0.086		0.029	0.012	mg/Kg	☼	07/15/17 04:42	07/17/17 17:46	4
Dibenzofuran	0.019	J	0.15	0.012	mg/Kg	☼	07/15/17 04:42	07/17/17 17:46	4
2,4-Dinitrotoluene	ND		0.15	0.019	mg/Kg	☼	07/15/17 04:42	07/17/17 17:46	4
1,4-Dioxane	ND		0.29	0.022	mg/Kg	☼	07/15/17 04:42	07/17/17 17:46	4
Fluoranthene	0.43		0.029	0.012	mg/Kg	☼	07/15/17 04:42	07/17/17 17:46	4
Fluorene	0.012	J	0.029	0.010	mg/Kg	☼	07/15/17 04:42	07/17/17 17:46	4
Hexachlorobenzene	ND		0.029	0.012	mg/Kg	☼	07/15/17 04:42	07/17/17 17:46	4
Hexachlorobutadiene	ND		0.029	0.0092	mg/Kg	☼	07/15/17 04:42	07/17/17 17:46	4
Hexachloroethane	ND		0.15	0.011	mg/Kg	☼	07/15/17 04:42	07/17/17 17:46	4
Indeno[1,2,3-cd]pyrene	0.33		0.029	0.011	mg/Kg	☼	07/15/17 04:42	07/17/17 17:46	4

Client Sample ID: W4, S2, C 71217 **Lab Sample ID: 180-68140-6**
Date Collected: 07/12/17 09:25 **Matrix: Solid**
Date Received: 07/12/17 21:10 **Percent Solids: 90.4**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	ND		0.15	0.013	mg/Kg	☼	07/15/17 04:42	07/17/17 17:46	4
Methylphenol, 3 & 4	ND		0.15	0.013	mg/Kg	☼	07/15/17 04:42	07/17/17 17:46	4
Naphthalene	**0.082**		0.029	0.011	mg/Kg	☼	07/15/17 04:42	07/17/17 17:46	4
Nitrobenzene	ND		0.29	0.011	mg/Kg	☼	07/15/17 04:42	07/17/17 17:46	4
Pentachlorophenol	ND		0.75	0.28	mg/Kg	☼	07/15/17 04:42	07/17/17 17:46	4
Phenanthrene	**0.17**		0.029	0.012	mg/Kg	☼	07/15/17 04:42	07/17/17 17:46	4
Phenol	ND		0.15	0.020	mg/Kg	☼	07/15/17 04:42	07/17/17 17:46	4
Pyrene	**0.37**		0.029	0.013	mg/Kg	☼	07/15/17 04:42	07/17/17 17:46	4
Pyridine	ND		0.15	0.014	mg/Kg	☼	07/15/17 04:42	07/17/17 17:46	4
2,4,5-Trichlorophenol	ND		0.15	0.014	mg/Kg	☼	07/15/17 04:42	07/17/17 17:46	4
2,4,6-Trichlorophenol	ND		0.15	0.013	mg/Kg	☼	07/15/17 04:42	07/17/17 17:46	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*50*		*42 - 100*	*07/15/17 04:42*	*07/17/17 17:46*	*4*
2-Fluorophenol (Surr)	*43*		*21 - 107*	*07/15/17 04:42*	*07/17/17 17:46*	*4*
Nitrobenzene-d5 (Surr)	*50*		*35 - 109*	*07/15/17 04:42*	*07/17/17 17:46*	*4*
Phenol-d5 (Surr)	*40*		*29 - 105*	*07/15/17 04:42*	*07/17/17 17:46*	*4*
Terphenyl-d14 (Surr)	*47*		*36 - 113*	*07/15/17 04:42*	*07/17/17 17:46*	*4*
2,4,6-Tribromophenol (Surr)	*48*		*20 - 134*	*07/15/17 04:42*	*07/17/17 17:46*	*4*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.018	0.0097	mg/Kg	☼	07/15/17 04:45	07/15/17 22:55	1
PCB-1221	ND		0.018	0.0095	mg/Kg	☼	07/15/17 04:45	07/15/17 22:55	1
PCB-1232	ND		0.018	0.0073	mg/Kg	☼	07/15/17 04:45	07/15/17 22:55	1
PCB-1242	ND		0.018	0.015	mg/Kg	☼	07/15/17 04:45	07/15/17 22:55	1
PCB-1248	**0.60**		0.018	0.0087	mg/Kg	☼	07/15/17 04:45	07/15/17 22:55	1
PCB-1254	**0.43**		0.018	0.0080	mg/Kg	☼	07/15/17 04:45	07/15/17 22:55	1
PCB-1260	**0.12**		0.018	0.012	mg/Kg	☼	07/15/17 04:45	07/15/17 22:55	1
PCB-1262	ND		0.018	0.013	mg/Kg	☼	07/15/17 04:45	07/15/17 22:55	1
PCB-1268	ND		0.018	0.0056	mg/Kg	☼	07/15/17 04:45	07/15/17 22:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*73*		*23 - 150*	*07/15/17 04:45*	*07/15/17 22:55*	*1*
DCB Decachlorobiphenyl (Surr)	*82*		*23 - 150*	*07/15/17 04:45*	*07/15/17 22:55*	*1*
Tetrachloro-m-xylene (Surr)	*77*		*27 - 138*	*07/15/17 04:45*	*07/15/17 22:55*	*1*
Tetrachloro-m-xylene (Surr)	*79*		*27 - 138*	*07/15/17 04:45*	*07/15/17 22:55*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**6.6**		1.1	0.50	mg/Kg	☼	07/14/17 11:31	07/17/17 08:34	1
Barium	**86**		23	6.1	mg/Kg	☼	07/14/17 11:31	07/17/17 08:34	1
Beryllium	**0.34**	**J**	0.46	0.12	mg/Kg	☼	07/14/17 11:31	07/17/17 08:34	1
Cadmium	**0.18**	**J**	0.57	0.13	mg/Kg	☼	07/14/17 11:31	07/17/17 08:34	1
Chromium	**8.8**		0.57	0.15	mg/Kg	☼	07/14/17 11:31	07/17/17 08:34	1
Copper	**22**		2.9	0.88	mg/Kg	☼	07/14/17 11:31	07/17/17 08:34	1
Lead	**36**		1.1	0.37	mg/Kg	☼	07/14/17 11:31	07/17/17 08:34	1
Manganese	**460**		1.7	0.46	mg/Kg	☼	07/14/17 11:31	07/17/17 08:34	1
Nickel	**17**		4.6	1.0	mg/Kg	☼	07/14/17 11:31	07/17/17 08:34	1
Selenium	**1.2**		1.1	0.45	mg/Kg	☼	07/14/17 11:31	07/17/17 08:34	1

Client Sample ID: W4, S2, C 71217

Lab Sample ID: 180-68140-6
Date Collected: 07/12/17 09:25
Matrix: Solid
Date Received: 07/12/17 21:10
Percent Solids: 90.4

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.57	0.19	mg/Kg	☼	07/14/17 11:31	07/17/17 08:34	1
Zinc	**64**		2.3	1.2	mg/Kg	☼	07/14/17 11:31	07/17/17 08:34	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.34**		0.038	0.0085	mg/Kg	☼	07/18/17 14:49	07/19/17 12:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.6**		0.1	0.1	%			07/14/17 13:15	1
Percent Solids	**90.4**		0.1	0.1	%			07/14/17 13:15	1
Cyanide, Total	ND		0.47	0.14	mg/Kg	☼	07/18/17 10:56	07/18/17 14:09	1

Client Sample ID: W4, S3, C 71217

Lab Sample ID: 180-68140-9
Date Collected: 07/12/17 09:55
Matrix: Solid
Date Received: 07/12/17 21:10
Percent Solids: 91.4

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.071	0.024	mg/Kg	☼	07/15/17 04:42	07/15/17 20:01	10
Acenaphthylene	**0.28**		0.071	0.024	mg/Kg	☼	07/15/17 04:42	07/15/17 20:01	10
Anthracene	**0.28**		0.071	0.026	mg/Kg	☼	07/15/17 04:42	07/15/17 20:01	10
Benzo[a]anthracene	**0.73**		0.071	0.028	mg/Kg	☼	07/15/17 04:42	07/15/17 20:01	10
Benzo[a]pyrene	**0.75**		0.071	0.029	mg/Kg	☼	07/15/17 04:42	07/15/17 20:01	10
Benzo[b]fluoranthene	**0.90**		0.071	0.031	mg/Kg	☼	07/15/17 04:42	07/15/17 20:01	10
Benzo[g,h,i]perylene	**0.82**		0.071	0.031	mg/Kg	☼	07/15/17 04:42	07/15/17 20:01	10
Benzo[k]fluoranthene	**0.32**		0.071	0.025	mg/Kg	☼	07/15/17 04:42	07/15/17 20:01	10
Chrysene	**0.67**		0.071	0.028	mg/Kg	☼	07/15/17 04:42	07/15/17 20:01	10
Dibenz(a,h)anthracene	**0.17**		0.071	0.029	mg/Kg	☼	07/15/17 04:42	07/15/17 20:01	10
Dibenzofuran	**0.052**	**J**	0.35	0.028	mg/Kg	☼	07/15/17 04:42	07/15/17 20:01	10
2,4-Dinitrotoluene	ND		0.35	0.047	mg/Kg	☼	07/15/17 04:42	07/15/17 20:01	10
1,4-Dioxane	ND		0.71	0.054	mg/Kg	☼	07/15/17 04:42	07/15/17 20:01	10
Fluoranthene	**1.5**		0.071	0.028	mg/Kg	☼	07/15/17 04:42	07/15/17 20:01	10
Fluorene	**0.035**	**J**	0.071	0.025	mg/Kg	☼	07/15/17 04:42	07/15/17 20:01	10
Hexachlorobenzene	ND		0.071	0.029	mg/Kg	☼	07/15/17 04:42	07/15/17 20:01	10
Hexachlorobutadiene	ND		0.071	0.022	mg/Kg	☼	07/15/17 04:42	07/15/17 20:01	10
Hexachloroethane	ND		0.35	0.025	mg/Kg	☼	07/15/17 04:42	07/15/17 20:01	10
Indeno[1,2,3-cd]pyrene	**0.68**		0.071	0.027	mg/Kg	☼	07/15/17 04:42	07/15/17 20:01	10
2-Methylphenol	ND		0.35	0.031	mg/Kg	☼	07/15/17 04:42	07/15/17 20:01	10
Methylphenol, 3 & 4	ND		0.35	0.031	mg/Kg	☼	07/15/17 04:42	07/15/17 20:01	10
Naphthalene	**0.14**		0.071	0.026	mg/Kg	☼	07/15/17 04:42	07/15/17 20:01	10
Nitrobenzene	ND		0.71	0.027	mg/Kg	☼	07/15/17 04:42	07/15/17 20:01	10
Pentachlorophenol	ND		1.8	0.67	mg/Kg	☼	07/15/17 04:42	07/15/17 20:01	10
Phenanthrene	**0.63**		0.071	0.030	mg/Kg	☼	07/15/17 04:42	07/15/17 20:01	10
Phenol	ND		0.35	0.048	mg/Kg	☼	07/15/17 04:42	07/15/17 20:01	10
Pyrene	**0.99**		0.071	0.032	mg/Kg	☼	07/15/17 04:42	07/15/17 20:01	10
Pyridine	ND		0.35	0.034	mg/Kg	☼	07/15/17 04:42	07/15/17 20:01	10
2,4,5-Trichlorophenol	ND		0.35	0.034	mg/Kg	☼	07/15/17 04:42	07/15/17 20:01	10
2,4,6-Trichlorophenol	ND		0.35	0.031	mg/Kg	☼	07/15/17 04:42	07/15/17 20:01	10

Client Sample ID: W4, S3, C 71217

Date Collected: 07/12/17 09:55
Date Received: 07/12/17 21:10

Lab Sample ID: 180-68140-9

Matrix: Solid
Percent Solids: 91.4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	66		42 - 100	07/15/17 04:42	07/15/17 20:01	10
2-Fluorophenol (Surr)	58		21 - 107	07/15/17 04:42	07/15/17 20:01	10
Nitrobenzene-d5 (Surr)	70		35 - 109	07/15/17 04:42	07/15/17 20:01	10
Phenol-d5 (Surr)	51		29 - 105	07/15/17 04:42	07/15/17 20:01	10
Terphenyl-d14 (Surr)	57		36 - 113	07/15/17 04:42	07/15/17 20:01	10
2,4,6-Tribromophenol (Surr)	36		20 - 134	07/15/17 04:42	07/15/17 20:01	10

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.018	0.0094	mg/Kg	☼	07/15/17 04:45	07/15/17 23:16	1
PCB-1221	ND		0.018	0.0092	mg/Kg	☼	07/15/17 04:45	07/15/17 23:16	1
PCB-1232	ND		0.018	0.0070	mg/Kg	☼	07/15/17 04:45	07/15/17 23:16	1
PCB-1242	ND		0.018	0.014	mg/Kg	☼	07/15/17 04:45	07/15/17 23:16	1
PCB-1248	**0.71**		0.018	0.0085	mg/Kg	☼	07/15/17 04:45	07/15/17 23:16	1
PCB-1254	**0.50**		0.018	0.0078	mg/Kg	☼	07/15/17 04:45	07/15/17 23:16	1
PCB-1260	**0.15**		0.018	0.012	mg/Kg	☼	07/15/17 04:45	07/15/17 23:16	1
PCB-1262	ND		0.018	0.013	mg/Kg	☼	07/15/17 04:45	07/15/17 23:16	1
PCB-1268	ND		0.018	0.0054	mg/Kg	☼	07/15/17 04:45	07/15/17 23:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	71		23 - 150	07/15/17 04:45	07/15/17 23:16	1
DCB Decachlorobiphenyl (Surr)	80		23 - 150	07/15/17 04:45	07/15/17 23:16	1
Tetrachloro-m-xylene (Surr)	77		27 - 138	07/15/17 04:45	07/15/17 23:16	1
Tetrachloro-m-xylene (Surr)	76		27 - 138	07/15/17 04:45	07/15/17 23:16	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**7.7**		1.1	0.48	mg/Kg	☼	07/14/17 11:31	07/17/17 08:39	1
Barium	**84**		22	5.9	mg/Kg	☼	07/14/17 11:31	07/17/17 08:39	1
Beryllium	**0.35**	**J**	0.44	0.11	mg/Kg	☼	07/14/17 11:31	07/17/17 08:39	1
Cadmium	**0.16**	**J**	0.55	0.12	mg/Kg	☼	07/14/17 11:31	07/17/17 08:39	1
Chromium	**8.9**		0.55	0.14	mg/Kg	☼	07/14/17 11:31	07/17/17 08:39	1
Copper	**24**		2.7	0.84	mg/Kg	☼	07/14/17 11:31	07/17/17 08:39	1
Lead	**35**		1.1	0.36	mg/Kg	☼	07/14/17 11:31	07/17/17 08:39	1
Manganese	**350**		1.6	0.44	mg/Kg	☼	07/14/17 11:31	07/17/17 08:39	1
Nickel	**18**		4.4	0.99	mg/Kg	☼	07/14/17 11:31	07/17/17 08:39	1
Selenium	**0.57**	**J**	1.1	0.43	mg/Kg	☼	07/14/17 11:31	07/17/17 08:39	1
Silver	ND		0.55	0.18	mg/Kg	☼	07/14/17 11:31	07/17/17 08:39	1
Zinc	**74**		2.2	1.1	mg/Kg	☼	07/14/17 11:31	07/17/17 08:39	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.34**		0.031	0.0069	mg/Kg	☼	07/18/17 14:49	07/19/17 12:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**8.6**		0.1	0.1	%			07/14/17 13:15	1
Percent Solids	**91.4**		0.1	0.1	%			07/14/17 13:15	1
Cyanide, Total	ND		0.47	0.14	mg/Kg	☼	07/18/17 10:56	07/18/17 14:11	1

Client Sample ID: W4, S4, C 71217
Date Collected: 07/12/17 10:25
Date Received: 07/12/17 21:10

Lab Sample ID: 180-68140-12
Matrix: Solid
Percent Solids: 89.9

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.072	0.024	mg/Kg	☼	07/15/17 04:42	07/15/17 20:28	10
Acenaphthylene	**0.45**		0.072	0.024	mg/Kg	☼	07/15/17 04:42	07/15/17 20:28	10
Anthracene	**0.51**		0.072	0.026	mg/Kg	☼	07/15/17 04:42	07/15/17 20:28	10
Benzo[a]anthracene	**1.1**		0.072	0.028	mg/Kg	☼	07/15/17 04:42	07/15/17 20:28	10
Benzo[a]pyrene	**1.1**		0.072	0.030	mg/Kg	☼	07/15/17 04:42	07/15/17 20:28	10
Benzo[b]fluoranthene	**1.2**		0.072	0.031	mg/Kg	☼	07/15/17 04:42	07/15/17 20:28	10
Benzo[g,h,i]perylene	**1.2**		0.072	0.031	mg/Kg	☼	07/15/17 04:42	07/15/17 20:28	10
Benzo[k]fluoranthene	**0.52**		0.072	0.025	mg/Kg	☼	07/15/17 04:42	07/15/17 20:28	10
Chrysene	**1.1**		0.072	0.028	mg/Kg	☼	07/15/17 04:42	07/15/17 20:28	10
Dibenz(a,h)anthracene	**0.22**		0.072	0.030	mg/Kg	☼	07/15/17 04:42	07/15/17 20:28	10
Dibenzofuran	**0.074**	**J**	0.36	0.029	mg/Kg	☼	07/15/17 04:42	07/15/17 20:28	10
2,4-Dinitrotoluene	ND		0.36	0.048	mg/Kg	☼	07/15/17 04:42	07/15/17 20:28	10
1,4-Dioxane	ND		0.72	0.054	mg/Kg	☼	07/15/17 04:42	07/15/17 20:28	10
Fluoranthene	**2.4**		0.072	0.028	mg/Kg	☼	07/15/17 04:42	07/15/17 20:28	10
Fluorene	**0.076**		0.072	0.026	mg/Kg	☼	07/15/17 04:42	07/15/17 20:28	10
Hexachlorobenzene	ND		0.072	0.029	mg/Kg	☼	07/15/17 04:42	07/15/17 20:28	10
Hexachlorobutadiene	ND		0.072	0.023	mg/Kg	☼	07/15/17 04:42	07/15/17 20:28	10
Hexachloroethane	ND		0.36	0.026	mg/Kg	☼	07/15/17 04:42	07/15/17 20:28	10
Indeno[1,2,3-cd]pyrene	**1.0**		0.072	0.028	mg/Kg	☼	07/15/17 04:42	07/15/17 20:28	10
2-Methylphenol	ND		0.36	0.032	mg/Kg	☼	07/15/17 04:42	07/15/17 20:28	10
Methylphenol, 3 & 4	ND		0.36	0.032	mg/Kg	☼	07/15/17 04:42	07/15/17 20:28	10
Naphthalene	**0.19**		0.072	0.026	mg/Kg	☼	07/15/17 04:42	07/15/17 20:28	10
Nitrobenzene	ND		0.72	0.027	mg/Kg	☼	07/15/17 04:42	07/15/17 20:28	10
Pentachlorophenol	ND		1.8	0.68	mg/Kg	☼	07/15/17 04:42	07/15/17 20:28	10
Phenanthrene	**1.1**		0.072	0.030	mg/Kg	☼	07/15/17 04:42	07/15/17 20:28	10
Phenol	ND		0.36	0.048	mg/Kg	☼	07/15/17 04:42	07/15/17 20:28	10
Pyrene	**1.5**		0.072	0.032	mg/Kg	☼	07/15/17 04:42	07/15/17 20:28	10
Pyridine	ND		0.36	0.034	mg/Kg	☼	07/15/17 04:42	07/15/17 20:28	10
2,4,5-Trichlorophenol	ND		0.36	0.034	mg/Kg	☼	07/15/17 04:42	07/15/17 20:28	10
2,4,6-Trichlorophenol	ND		0.36	0.031	mg/Kg	☼	07/15/17 04:42	07/15/17 20:28	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*69*		*42 - 100*	*07/15/17 04:42*	*07/15/17 20:28*	*10*
2-Fluorophenol (Surr)	*60*		*21 - 107*	*07/15/17 04:42*	*07/15/17 20:28*	*10*
Nitrobenzene-d5 (Surr)	*74*		*35 - 109*	*07/15/17 04:42*	*07/15/17 20:28*	*10*
Phenol-d5 (Surr)	*51*		*29 - 105*	*07/15/17 04:42*	*07/15/17 20:28*	*10*
Terphenyl-d14 (Surr)	*61*		*36 - 113*	*07/15/17 04:42*	*07/15/17 20:28*	*10*
2,4,6-Tribromophenol (Surr)	*48*		*20 - 134*	*07/15/17 04:42*	*07/15/17 20:28*	*10*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.019	0.0098	mg/Kg	☼	07/15/17 04:45	07/15/17 23:38	1
PCB-1221	ND		0.019	0.0096	mg/Kg	☼	07/15/17 04:45	07/15/17 23:38	1
PCB-1232	ND		0.019	0.0073	mg/Kg	☼	07/15/17 04:45	07/15/17 23:38	1
PCB-1242	ND		0.019	0.015	mg/Kg	☼	07/15/17 04:45	07/15/17 23:38	1
PCB-1248	**0.72**		0.019	0.0088	mg/Kg	☼	07/15/17 04:45	07/15/17 23:38	1
PCB-1254	**0.51**		0.019	0.0081	mg/Kg	☼	07/15/17 04:45	07/15/17 23:38	1
PCB-1260	**0.15**		0.019	0.012	mg/Kg	☼	07/15/17 04:45	07/15/17 23:38	1
PCB-1262	ND		0.019	0.013	mg/Kg	☼	07/15/17 04:45	07/15/17 23:38	1
PCB-1268	ND		0.019	0.0056	mg/Kg	☼	07/15/17 04:45	07/15/17 23:38	1

Client Sample ID: W4, S4, C 71217 — Lab Sample ID: 180-68140-12

Date Collected: 07/12/17 10:25 — **Matrix: Solid**
Date Received: 07/12/17 21:10 — **Percent Solids: 89.9**

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	81		23 - 150	07/15/17 04:45	07/15/17 23:38	1
DCB Decachlorobiphenyl (Surr)	90		23 - 150	07/15/17 04:45	07/15/17 23:38	1
Tetrachloro-m-xylene (Surr)	80		27 - 138	07/15/17 04:45	07/15/17 23:38	1
Tetrachloro-m-xylene (Surr)	82		27 - 138	07/15/17 04:45	07/15/17 23:38	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	8.0		1.1	0.49	mg/Kg	☼	07/14/17 11:31	07/17/17 08:44	1
Barium	90		22	6.0	mg/Kg	☼	07/14/17 11:31	07/17/17 08:44	1
Beryllium	0.40	J	0.44	0.12	mg/Kg	☼	07/14/17 11:31	07/17/17 08:44	1
Cadmium	0.19	J	0.56	0.12	mg/Kg	☼	07/14/17 11:31	07/17/17 08:44	1
Chromium	10		0.56	0.14	mg/Kg	☼	07/14/17 11:31	07/17/17 08:44	1
Copper	26		2.8	0.85	mg/Kg	☼	07/14/17 11:31	07/17/17 08:44	1
Lead	40		1.1	0.36	mg/Kg	☼	07/14/17 11:31	07/17/17 08:44	1
Manganese	650		1.7	0.45	mg/Kg	☼	07/14/17 11:31	07/17/17 08:44	1
Nickel	19		4.4	1.0	mg/Kg	☼	07/14/17 11:31	07/17/17 08:44	1
Selenium	ND		1.1	0.44	mg/Kg	☼	07/14/17 11:31	07/17/17 08:44	1
Silver	ND		0.56	0.18	mg/Kg	☼	07/14/17 11:31	07/17/17 08:44	1
Zinc	90		2.2	1.1	mg/Kg	☼	07/14/17 11:31	07/17/17 08:44	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.24		0.037	0.0084	mg/Kg	☼	07/18/17 14:49	07/19/17 12:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	10.1		0.1	0.1	%			07/14/17 13:15	1
Percent Solids	89.9		0.1	0.1	%			07/14/17 13:15	1
Cyanide, Total	ND		0.50	0.15	mg/Kg	☼	07/18/17 10:56	07/18/17 14:12	1

Client Sample ID: W4, S5, C 71217 — Lab Sample ID: 180-68140-15

Date Collected: 07/12/17 11:55 — **Matrix: Solid**
Date Received: 07/12/17 21:10 — **Percent Solids: 90.7**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.020	J	0.030	0.0099	mg/Kg	☼	07/15/17 04:42	07/15/17 20:56	4
Acenaphthylene	0.48		0.030	0.010	mg/Kg	☼	07/15/17 04:42	07/15/17 20:56	4
Anthracene	0.42		0.030	0.011	mg/Kg	☼	07/15/17 04:42	07/15/17 20:56	4
Benzo[a]anthracene	1.2		0.030	0.012	mg/Kg	☼	07/15/17 04:42	07/15/17 20:56	4
Benzo[a]pyrene	1.2		0.030	0.012	mg/Kg	☼	07/15/17 04:42	07/15/17 20:56	4
Benzo[b]fluoranthene	1.4		0.030	0.013	mg/Kg	☼	07/15/17 04:42	07/15/17 20:56	4
Benzo[g,h,i]perylene	1.4		0.030	0.013	mg/Kg	☼	07/15/17 04:42	07/15/17 20:56	4
Benzo[k]fluoranthene	0.56		0.030	0.010	mg/Kg	☼	07/15/17 04:42	07/15/17 20:56	4
Chrysene	1.1		0.030	0.011	mg/Kg	☼	07/15/17 04:42	07/15/17 20:56	4
Dibenz(a,h)anthracene	0.30		0.030	0.012	mg/Kg	☼	07/15/17 04:42	07/15/17 20:56	4
Dibenzofuran	0.066	J	0.15	0.012	mg/Kg	☼	07/15/17 04:42	07/15/17 20:56	4
2,4-Dinitrotoluene	ND		0.15	0.019	mg/Kg	☼	07/15/17 04:42	07/15/17 20:56	4
1,4-Dioxane	ND		0.29	0.022	mg/Kg	☼	07/15/17 04:42	07/15/17 20:56	4
Fluoranthene	2.7		0.030	0.012	mg/Kg	☼	07/15/17 04:42	07/15/17 20:56	4
Fluorene	0.060		0.030	0.010	mg/Kg	☼	07/15/17 04:42	07/15/17 20:56	4

Client Sample ID: W4, S5, C 71217
Date Collected: 07/12/17 11:55
Date Received: 07/12/17 21:10

Lab Sample ID: 180-68140-15
Matrix: Solid
Percent Solids: 90.7

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobenzene	ND		0.030	0.012	mg/Kg	☼	07/15/17 04:42	07/15/17 20:56	4
Hexachlorobutadiene	ND		0.030	0.0093	mg/Kg	☼	07/15/17 04:42	07/15/17 20:56	4
Hexachloroethane	ND		0.15	0.011	mg/Kg	☼	07/15/17 04:42	07/15/17 20:56	4
Indeno[1,2,3-cd]pyrene	**1.1**		0.030	0.011	mg/Kg	☼	07/15/17 04:42	07/15/17 20:56	4
2-Methylphenol	ND		0.15	0.013	mg/Kg	☼	07/15/17 04:42	07/15/17 20:56	4
Methylphenol, 3 & 4	ND		0.15	0.013	mg/Kg	☼	07/15/17 04:42	07/15/17 20:56	4
Naphthalene	**0.22**		0.030	0.011	mg/Kg	☼	07/15/17 04:42	07/15/17 20:56	4
Nitrobenzene	ND		0.29	0.011	mg/Kg	☼	07/15/17 04:42	07/15/17 20:56	4
Pentachlorophenol	ND		0.75	0.28	mg/Kg	☼	07/15/17 04:42	07/15/17 20:56	4
Phenanthrene	**0.95**		0.030	0.012	mg/Kg	☼	07/15/17 04:42	07/15/17 20:56	4
Phenol	ND		0.15	0.020	mg/Kg	☼	07/15/17 04:42	07/15/17 20:56	4
Pyrene	**1.8**		0.030	0.013	mg/Kg	☼	07/15/17 04:42	07/15/17 20:56	4
Pyridine	ND		0.15	0.014	mg/Kg	☼	07/15/17 04:42	07/15/17 20:56	4
2,4,5-Trichlorophenol	ND		0.15	0.014	mg/Kg	☼	07/15/17 04:42	07/15/17 20:56	4
2,4,6-Trichlorophenol	ND		0.15	0.013	mg/Kg	☼	07/15/17 04:42	07/15/17 20:56	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*65*		*42 - 100*	*07/15/17 04:42*	*07/15/17 20:56*	*4*
2-Fluorophenol (Surr)	*53*		*21 - 107*	*07/15/17 04:42*	*07/15/17 20:56*	*4*
Nitrobenzene-d5 (Surr)	*63*		*35 - 109*	*07/15/17 04:42*	*07/15/17 20:56*	*4*
Phenol-d5 (Surr)	*47*		*29 - 105*	*07/15/17 04:42*	*07/15/17 20:56*	*4*
Terphenyl-d14 (Surr)	*58*		*36 - 113*	*07/15/17 04:42*	*07/15/17 20:56*	*4*
2,4,6-Tribromophenol (Surr)	*53*		*20 - 134*	*07/15/17 04:42*	*07/15/17 20:56*	*4*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.018	0.0096	mg/Kg	☼	07/15/17 04:45	07/15/17 23:58	1
PCB-1221	ND		0.018	0.0093	mg/Kg	☼	07/15/17 04:45	07/15/17 23:58	1
PCB-1232	ND		0.018	0.0071	mg/Kg	☼	07/15/17 04:45	07/15/17 23:58	1
PCB-1242	ND		0.018	0.014	mg/Kg	☼	07/15/17 04:45	07/15/17 23:58	1
PCB-1248	**0.61**		0.018	0.0086	mg/Kg	☼	07/15/17 04:45	07/15/17 23:58	1
PCB-1254	**0.41**		0.018	0.0079	mg/Kg	☼	07/15/17 04:45	07/15/17 23:58	1
PCB-1260	**0.12**		0.018	0.012	mg/Kg	☼	07/15/17 04:45	07/15/17 23:58	1
PCB-1262	ND		0.018	0.013	mg/Kg	☼	07/15/17 04:45	07/15/17 23:58	1
PCB-1268	ND		0.018	0.0055	mg/Kg	☼	07/15/17 04:45	07/15/17 23:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*77*		*23 - 150*	*07/15/17 04:45*	*07/15/17 23:58*	*1*
DCB Decachlorobiphenyl (Surr)	*88*		*23 - 150*	*07/15/17 04:45*	*07/15/17 23:58*	*1*
Tetrachloro-m-xylene (Surr)	*82*		*27 - 138*	*07/15/17 04:45*	*07/15/17 23:58*	*1*
Tetrachloro-m-xylene (Surr)	*81*		*27 - 138*	*07/15/17 04:45*	*07/15/17 23:58*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**7.0**		1.1	0.47	mg/Kg	☼	07/14/17 11:31	07/17/17 08:59	1
Barium	**73**		21	5.7	mg/Kg	☼	07/14/17 11:31	07/17/17 08:59	1
Beryllium	**0.36**	**J**	0.43	0.11	mg/Kg	☼	07/14/17 11:31	07/17/17 08:59	1
Cadmium	**0.16**	**J**	0.54	0.12	mg/Kg	☼	07/14/17 11:31	07/17/17 08:59	1
Chromium	**9.5**		0.54	0.14	mg/Kg	☼	07/14/17 11:31	07/17/17 08:59	1
Copper	**26**		2.7	0.82	mg/Kg	☼	07/14/17 11:31	07/17/17 08:59	1

Client Sample ID: W4, S5, C 71217 — Lab Sample ID: 180-68140-15

Date Collected: 07/12/17 11:55 — **Matrix: Solid**
Date Received: 07/12/17 21:10 — **Percent Solids: 90.7**

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	33		1.1	0.35	mg/Kg	☼	07/14/17 11:31	07/17/17 08:59	1
Manganese	370		1.6	0.43	mg/Kg	☼	07/14/17 11:31	07/17/17 08:59	1
Nickel	17		4.3	0.96	mg/Kg	☼	07/14/17 11:31	07/17/17 08:59	1
Selenium	0.53	J	1.1	0.42	mg/Kg	☼	07/14/17 11:31	07/17/17 08:59	1
Silver	ND		0.54	0.18	mg/Kg	☼	07/14/17 11:31	07/17/17 08:59	1
Zinc	68		2.1	1.1	mg/Kg	☼	07/14/17 11:31	07/17/17 08:59	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.18		0.036	0.0080	mg/Kg	☼	07/18/17 14:49	07/19/17 12:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.3		0.1	0.1	%			07/14/17 13:15	1
Percent Solids	90.7		0.1	0.1	%			07/14/17 13:15	1
Cyanide, Total	ND		0.50	0.15	mg/Kg	☼	07/18/17 10:56	07/18/17 14:14	1

Client Sample ID: W5, S5, A 71217 — Lab Sample ID: 180-68140-16

Date Collected: 07/12/17 12:25 — **Matrix: Solid**
Date Received: 07/12/17 21:10 — **Percent Solids: 90.3**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.019	0.0029	mg/Kg	☼	07/16/17 09:00	07/16/17 15:44	1
Benzene	ND		0.0046	0.0018	mg/Kg	☼	07/16/17 09:00	07/16/17 15:44	1
2-Butanone (MEK)	ND		0.0046	0.0027	mg/Kg	☼	07/16/17 09:00	07/16/17 15:44	1
Carbon tetrachloride	ND		0.0046	0.0031	mg/Kg	☼	07/16/17 09:00	07/16/17 15:44	1
Chlorobenzene	ND		0.0046	0.0015	mg/Kg	☼	07/16/17 09:00	07/16/17 15:44	1
Chloroform	ND		0.0046	0.0020	mg/Kg	☼	07/16/17 09:00	07/16/17 15:44	1
cis-1,2-Dichloroethene	ND		0.0046	0.0015	mg/Kg	☼	07/16/17 09:00	07/16/17 15:44	1
1,2-Dichlorobenzene	ND		0.0046	0.0037	mg/Kg	☼	07/16/17 09:00	07/16/17 15:44	1
1,3-Dichlorobenzene	ND		0.0046	0.0015	mg/Kg	☼	07/16/17 09:00	07/16/17 15:44	1
1,4-Dichlorobenzene	ND		0.0046	0.00094	mg/Kg	☼	07/16/17 09:00	07/16/17 15:44	1
1,1-Dichloroethane	ND		0.0046	0.0017	mg/Kg	☼	07/16/17 09:00	07/16/17 15:44	1
1,2-Dichloroethane	ND		0.0046	0.0013	mg/Kg	☼	07/16/17 09:00	07/16/17 15:44	1
1,1-Dichloroethene	ND		0.0046	0.0026	mg/Kg	☼	07/16/17 09:00	07/16/17 15:44	1
Ethylbenzene	ND		0.0046	0.0020	mg/Kg	☼	07/16/17 09:00	07/16/17 15:44	1
Methylene Chloride	ND		0.0046	0.0022	mg/Kg	☼	07/16/17 09:00	07/16/17 15:44	1
Methyl tert-butyl ether	ND		0.0046	0.0034	mg/Kg	☼	07/16/17 09:00	07/16/17 15:44	1
n-Butylbenzene	ND		0.0046	0.0035	mg/Kg	☼	07/16/17 09:00	07/16/17 15:44	1
N-Propylbenzene	ND		0.0046	0.0020	mg/Kg	☼	07/16/17 09:00	07/16/17 15:44	1
sec-Butylbenzene	ND		0.0046	0.0023	mg/Kg	☼	07/16/17 09:00	07/16/17 15:44	1
tert-Butylbenzene	ND		0.0046	0.0017	mg/Kg	☼	07/16/17 09:00	07/16/17 15:44	1
Tetrachloroethene	ND		0.0046	0.0019	mg/Kg	☼	07/16/17 09:00	07/16/17 15:44	1
Toluene	ND		0.0046	0.0016	mg/Kg	☼	07/16/17 09:00	07/16/17 15:44	1
trans-1,2-Dichloroethene	ND		0.0046	0.0023	mg/Kg	☼	07/16/17 09:00	07/16/17 15:44	1
1,1,1-Trichloroethane	ND		0.0046	0.0023	mg/Kg	☼	07/16/17 09:00	07/16/17 15:44	1
Trichloroethene	ND		0.0046	0.0014	mg/Kg	☼	07/16/17 09:00	07/16/17 15:44	1
1,2,4-Trimethylbenzene	ND		0.0046	0.0012	mg/Kg	☼	07/16/17 09:00	07/16/17 15:44	1
1,3,5-Trimethylbenzene	ND		0.0046	0.0016	mg/Kg	☼	07/16/17 09:00	07/16/17 15:44	1

Client Sample ID: W5, S5, A 71217 — Lab Sample ID: 180-68140-16

Date Collected: 07/12/17 12:25 — **Matrix: Solid**
Date Received: 07/12/17 21:10 — **Percent Solids: 90.3**

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		0.0046	0.0034	mg/Kg	☼	07/16/17 09:00	07/16/17 15:44	1
Xylenes, Total	ND		0.0093	0.0040	mg/Kg	☼	07/16/17 09:00	07/16/17 15:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*63 - 120*	*07/16/17 09:00*	*07/16/17 15:44*	*1*
Dibromofluoromethane (Surr)	*92*		*68 - 121*	*07/16/17 09:00*	*07/16/17 15:44*	*1*
1,2-Dichloroethane-d4 (Surr)	*83*		*52 - 124*	*07/16/17 09:00*	*07/16/17 15:44*	*1*
Toluene-d8 (Surr)	*122*		*72 - 127*	*07/16/17 09:00*	*07/16/17 15:44*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.7**		0.1	0.1	%			07/14/17 13:15	1
Percent Solids	**90.3**		0.1	0.1	%			07/14/17 13:15	1

Client Sample ID: W5, S5, B 71217 — Lab Sample ID: 180-68140-17

Date Collected: 07/12/17 12:30 — **Matrix: Solid**
Date Received: 07/12/17 21:10 — **Percent Solids: 86.1**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.020	0.0031	mg/Kg	☼	07/17/17 05:28	07/17/17 12:23	1
Benzene	ND		0.0049	0.0019	mg/Kg	☼	07/17/17 05:28	07/17/17 12:23	1
2-Butanone (MEK)	ND		0.0049	0.0028	mg/Kg	☼	07/17/17 05:28	07/17/17 12:23	1
Carbon tetrachloride	ND		0.0049	0.0033	mg/Kg	☼	07/17/17 05:28	07/17/17 12:23	1
Chlorobenzene	ND		0.0049	0.0015	mg/Kg	☼	07/17/17 05:28	07/17/17 12:23	1
Chloroform	ND		0.0049	0.0021	mg/Kg	☼	07/17/17 05:28	07/17/17 12:23	1
cis-1,2-Dichloroethene	ND		0.0049	0.0015	mg/Kg	☼	07/17/17 05:28	07/17/17 12:23	1
1,2-Dichlorobenzene	ND		0.0049	0.0040	mg/Kg	☼	07/17/17 05:28	07/17/17 12:23	1
1,3-Dichlorobenzene	ND		0.0049	0.0016	mg/Kg	☼	07/17/17 05:28	07/17/17 12:23	1
1,4-Dichlorobenzene	ND		0.0049	0.0010	mg/Kg	☼	07/17/17 05:28	07/17/17 12:23	1
1,1-Dichloroethane	ND		0.0049	0.0018	mg/Kg	☼	07/17/17 05:28	07/17/17 12:23	1
1,2-Dichloroethane	ND		0.0049	0.0014	mg/Kg	☼	07/17/17 05:28	07/17/17 12:23	1
1,1-Dichloroethene	ND		0.0049	0.0028	mg/Kg	☼	07/17/17 05:28	07/17/17 12:23	1
Ethylbenzene	ND		0.0049	0.0021	mg/Kg	☼	07/17/17 05:28	07/17/17 12:23	1
Methylene Chloride	ND		0.0049	0.0023	mg/Kg	☼	07/17/17 05:28	07/17/17 12:23	1
Methyl tert-butyl ether	ND		0.0049	0.0036	mg/Kg	☼	07/17/17 05:28	07/17/17 12:23	1
n-Butylbenzene	ND		0.0049	0.0037	mg/Kg	☼	07/17/17 05:28	07/17/17 12:23	1
N-Propylbenzene	ND		0.0049	0.0021	mg/Kg	☼	07/17/17 05:28	07/17/17 12:23	1
sec-Butylbenzene	ND		0.0049	0.0024	mg/Kg	☼	07/17/17 05:28	07/17/17 12:23	1
tert-Butylbenzene	ND		0.0049	0.0018	mg/Kg	☼	07/17/17 05:28	07/17/17 12:23	1
Tetrachloroethene	ND		0.0049	0.0020	mg/Kg	☼	07/17/17 05:28	07/17/17 12:23	1
Toluene	ND		0.0049	0.0017	mg/Kg	☼	07/17/17 05:28	07/17/17 12:23	1
trans-1,2-Dichloroethene	ND		0.0049	0.0025	mg/Kg	☼	07/17/17 05:28	07/17/17 12:23	1
1,1,1-Trichloroethane	ND		0.0049	0.0025	mg/Kg	☼	07/17/17 05:28	07/17/17 12:23	1
Trichloroethene	ND		0.0049	0.0015	mg/Kg	☼	07/17/17 05:28	07/17/17 12:23	1
1,2,4-Trimethylbenzene	ND		0.0049	0.0013	mg/Kg	☼	07/17/17 05:28	07/17/17 12:23	1
1,3,5-Trimethylbenzene	ND		0.0049	0.0017	mg/Kg	☼	07/17/17 05:28	07/17/17 12:23	1
Vinyl chloride	ND		0.0049	0.0036	mg/Kg	☼	07/17/17 05:28	07/17/17 12:23	1
Xylenes, Total	ND		0.0098	0.0042	mg/Kg	☼	07/17/17 05:28	07/17/17 12:23	1

Client Sample ID: W5, S5, B 71217

Lab Sample ID: 180-68140-17

Date Collected: 07/12/17 12:30
Matrix: Solid
Date Received: 07/12/17 21:10
Percent Solids: 86.1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*94*		*63 - 120*	*07/17/17 05:28*	*07/17/17 12:23*	*1*
Dibromofluoromethane (Surr)	*91*		*68 - 121*	*07/17/17 05:28*	*07/17/17 12:23*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*52 - 124*	*07/17/17 05:28*	*07/17/17 12:23*	*1*
Toluene-d8 (Surr)	*103*		*72 - 127*	*07/17/17 05:28*	*07/17/17 12:23*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**13.9**		0.1	0.1	%			07/14/17 13:15	1
Percent Solids	**86.1**		0.1	0.1	%			07/14/17 13:15	1

Client Sample ID: W5, S5, C 71217

Lab Sample ID: 180-68140-18

Date Collected: 07/12/17 12:35
Matrix: Solid
Date Received: 07/12/17 21:10
Percent Solids: 90.6

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.022	0.0073	mg/Kg	☼	07/15/17 04:42	07/17/17 18:13	3
Acenaphthylene	**0.067**		0.022	0.0073	mg/Kg	☼	07/15/17 04:42	07/17/17 18:13	3
Anthracene	**0.084**		0.022	0.0080	mg/Kg	☼	07/15/17 04:42	07/17/17 18:13	3
Benzo[a]anthracene	**0.27**		0.022	0.0086	mg/Kg	☼	07/15/17 04:42	07/17/17 18:13	3
Benzo[a]pyrene	**0.27**		0.022	0.0090	mg/Kg	☼	07/15/17 04:42	07/17/17 18:13	3
Benzo[b]fluoranthene	**0.32**		0.022	0.0094	mg/Kg	☼	07/15/17 04:42	07/17/17 18:13	3
Benzo[g,h,i]perylene	**0.28**		0.022	0.0094	mg/Kg	☼	07/15/17 04:42	07/17/17 18:13	3
Benzo[k]fluoranthene	**0.12**		0.022	0.0075	mg/Kg	☼	07/15/17 04:42	07/17/17 18:13	3
Chrysene	**0.27**		0.022	0.0085	mg/Kg	☼	07/15/17 04:42	07/17/17 18:13	3
Dibenz(a,h)anthracene	**0.067**		0.022	0.0090	mg/Kg	☼	07/15/17 04:42	07/17/17 18:13	3
Dibenzofuran	**0.039**	**J**	0.11	0.0087	mg/Kg	☼	07/15/17 04:42	07/17/17 18:13	3
2,4-Dinitrotoluene	ND		0.11	0.014	mg/Kg	☼	07/15/17 04:42	07/17/17 18:13	3
1,4-Dioxane	ND		0.22	0.016	mg/Kg	☼	07/15/17 04:42	07/17/17 18:13	3
Fluoranthene	**0.41**		0.022	0.0085	mg/Kg	☼	07/15/17 04:42	07/17/17 18:13	3
Fluorene	**0.0087**	**J**	0.022	0.0077	mg/Kg	☼	07/15/17 04:42	07/17/17 18:13	3
Hexachlorobenzene	ND		0.022	0.0087	mg/Kg	☼	07/15/17 04:42	07/17/17 18:13	3
Hexachlorobutadiene	ND		0.022	0.0068	mg/Kg	☼	07/15/17 04:42	07/17/17 18:13	3
Hexachloroethane	ND		0.11	0.0078	mg/Kg	☼	07/15/17 04:42	07/17/17 18:13	3
Indeno[1,2,3-cd]pyrene	**0.24**		0.022	0.0084	mg/Kg	☼	07/15/17 04:42	07/17/17 18:13	3
2-Methylphenol	ND		0.11	0.0096	mg/Kg	☼	07/15/17 04:42	07/17/17 18:13	3
Methylphenol, 3 & 4	ND		0.11	0.0096	mg/Kg	☼	07/15/17 04:42	07/17/17 18:13	3
Naphthalene	**0.39**		0.022	0.0078	mg/Kg	☼	07/15/17 04:42	07/17/17 18:13	3
Nitrobenzene	ND		0.22	0.0083	mg/Kg	☼	07/15/17 04:42	07/17/17 18:13	3
Pentachlorophenol	ND		0.55	0.20	mg/Kg	☼	07/15/17 04:42	07/17/17 18:13	3
Phenanthrene	**0.18**		0.022	0.0090	mg/Kg	☼	07/15/17 04:42	07/17/17 18:13	3
Phenol	ND		0.11	0.015	mg/Kg	☼	07/15/17 04:42	07/17/17 18:13	3
Pyrene	**0.35**		0.022	0.0096	mg/Kg	☼	07/15/17 04:42	07/17/17 18:13	3
Pyridine	ND		0.11	0.010	mg/Kg	☼	07/15/17 04:42	07/17/17 18:13	3
2,4,5-Trichlorophenol	ND		0.11	0.010	mg/Kg	☼	07/15/17 04:42	07/17/17 18:13	3
2,4,6-Trichlorophenol	ND		0.11	0.0095	mg/Kg	☼	07/15/17 04:42	07/17/17 18:13	3

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	*52*		*42 - 100*	*07/15/17 04:42*	*07/17/17 18:13*	*3*
2-Fluorophenol (Surr)	*44*		*21 - 107*	*07/15/17 04:42*	*07/17/17 18:13*	*3*
Nitrobenzene-d5 (Surr)	*53*		*35 - 109*	*07/15/17 04:42*	*07/17/17 18:13*	*3*

Client Sample ID: W5, S5, C 71217
Date Collected: 07/12/17 12:35
Date Received: 07/12/17 21:10

Lab Sample ID: 180-68140-18
Matrix: Solid
Percent Solids: 90.6

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Phenol-d5 (Surr)	*42*		*29 - 105*	*07/15/17 04:42*	*07/17/17 18:13*	*3*
Terphenyl-d14 (Surr)	*48*		*36 - 113*	*07/15/17 04:42*	*07/17/17 18:13*	*3*
2,4,6-Tribromophenol (Surr)	*47*		*20 - 134*	*07/15/17 04:42*	*07/17/17 18:13*	*3*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.018	0.0096	mg/Kg	☼	07/15/17 04:45	07/16/17 00:20	1
PCB-1221	ND		0.018	0.0094	mg/Kg	☼	07/15/17 04:45	07/16/17 00:20	1
PCB-1232	ND		0.018	0.0072	mg/Kg	☼	07/15/17 04:45	07/16/17 00:20	1
PCB-1242	ND		0.018	0.014	mg/Kg	☼	07/15/17 04:45	07/16/17 00:20	1
PCB-1248	**0.68**		0.018	0.0087	mg/Kg	☼	07/15/17 04:45	07/16/17 00:20	1
PCB-1254	**0.46**		0.018	0.0080	mg/Kg	☼	07/15/17 04:45	07/16/17 00:20	1
PCB-1260	**0.14**		0.018	0.012	mg/Kg	☼	07/15/17 04:45	07/16/17 00:20	1
PCB-1262	ND		0.018	0.013	mg/Kg	☼	07/15/17 04:45	07/16/17 00:20	1
PCB-1268	ND		0.018	0.0055	mg/Kg	☼	07/15/17 04:45	07/16/17 00:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	*72*		*23 - 150*	*07/15/17 04:45*	*07/16/17 00:20*	*1*
DCB Decachlorobiphenyl (Surr)	*80*		*23 - 150*	*07/15/17 04:45*	*07/16/17 00:20*	*1*
Tetrachloro-m-xylene (Surr)	*73*		*27 - 138*	*07/15/17 04:45*	*07/16/17 00:20*	*1*
Tetrachloro-m-xylene (Surr)	*73*		*27 - 138*	*07/15/17 04:45*	*07/16/17 00:20*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**10**		1.2	0.52	mg/Kg	☼	07/14/17 11:31	07/17/17 09:04	1
Barium	**100**		23	6.3	mg/Kg	☼	07/14/17 11:31	07/17/17 09:04	1
Beryllium	**0.57**		0.47	0.12	mg/Kg	☼	07/14/17 11:31	07/17/17 09:04	1
Cadmium	**0.22**	**J**	0.59	0.13	mg/Kg	☼	07/14/17 11:31	07/17/17 09:04	1
Chromium	**14**		0.59	0.15	mg/Kg	☼	07/14/17 11:31	07/17/17 09:04	1
Copper	**28**		2.9	0.90	mg/Kg	☼	07/14/17 11:31	07/17/17 09:04	1
Lead	**40**		1.2	0.39	mg/Kg	☼	07/14/17 11:31	07/17/17 09:04	1
Manganese	**570**		1.8	0.48	mg/Kg	☼	07/14/17 11:31	07/17/17 09:04	1
Nickel	**27**		4.7	1.1	mg/Kg	☼	07/14/17 11:31	07/17/17 09:04	1
Selenium	ND		1.2	0.47	mg/Kg	☼	07/14/17 11:31	07/17/17 09:04	1
Silver	ND		0.59	0.19	mg/Kg	☼	07/14/17 11:31	07/17/17 09:04	1
Zinc	**89**		2.3	1.2	mg/Kg	☼	07/14/17 11:31	07/17/17 09:04	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.20**		0.036	0.0080	mg/Kg	☼	07/18/17 14:49	07/19/17 12:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.4**		0.1	0.1	%			07/14/17 13:15	1
Percent Solids	**90.6**		0.1	0.1	%			07/14/17 13:15	1
Cyanide, Total	ND		0.48	0.15	mg/Kg	☼	07/18/17 10:56	07/18/17 14:16	1

Client Sample ID: W5, S4, A 71217

Lab Sample ID: 180-68140-19
Date Collected: 07/12/17 12:45
Matrix: Solid
Date Received: 07/12/17 21:10
Percent Solids: 92.7

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.020	0.0032	mg/Kg	☼	07/17/17 05:28	07/17/17 12:01	1
Benzene	ND		0.0051	0.0020	mg/Kg	☼	07/17/17 05:28	07/17/17 12:01	1
2-Butanone (MEK)	ND		0.0051	0.0029	mg/Kg	☼	07/17/17 05:28	07/17/17 12:01	1
Carbon tetrachloride	ND		0.0051	0.0034	mg/Kg	☼	07/17/17 05:28	07/17/17 12:01	1
Chlorobenzene	ND		0.0051	0.0016	mg/Kg	☼	07/17/17 05:28	07/17/17 12:01	1
Chloroform	ND		0.0051	0.0021	mg/Kg	☼	07/17/17 05:28	07/17/17 12:01	1
cis-1,2-Dichloroethene	ND		0.0051	0.0016	mg/Kg	☼	07/17/17 05:28	07/17/17 12:01	1
1,2-Dichlorobenzene	ND		0.0051	0.0041	mg/Kg	☼	07/17/17 05:28	07/17/17 12:01	1
1,3-Dichlorobenzene	ND		0.0051	0.0016	mg/Kg	☼	07/17/17 05:28	07/17/17 12:01	1
1,4-Dichlorobenzene	ND		0.0051	0.0010	mg/Kg	☼	07/17/17 05:28	07/17/17 12:01	1
1,1-Dichloroethane	ND		0.0051	0.0018	mg/Kg	☼	07/17/17 05:28	07/17/17 12:01	1
1,2-Dichloroethane	ND		0.0051	0.0015	mg/Kg	☼	07/17/17 05:28	07/17/17 12:01	1
1,1-Dichloroethene	ND		0.0051	0.0029	mg/Kg	☼	07/17/17 05:28	07/17/17 12:01	1
Ethylbenzene	ND		0.0051	0.0022	mg/Kg	☼	07/17/17 05:28	07/17/17 12:01	1
Methylene Chloride	ND		0.0051	0.0024	mg/Kg	☼	07/17/17 05:28	07/17/17 12:01	1
Methyl tert-butyl ether	ND		0.0051	0.0037	mg/Kg	☼	07/17/17 05:28	07/17/17 12:01	1
n-Butylbenzene	ND		0.0051	0.0038	mg/Kg	☼	07/17/17 05:28	07/17/17 12:01	1
N-Propylbenzene	ND		0.0051	0.0021	mg/Kg	☼	07/17/17 05:28	07/17/17 12:01	1
sec-Butylbenzene	ND		0.0051	0.0025	mg/Kg	☼	07/17/17 05:28	07/17/17 12:01	1
tert-Butylbenzene	ND		0.0051	0.0019	mg/Kg	☼	07/17/17 05:28	07/17/17 12:01	1
Tetrachloroethene	ND		0.0051	0.0020	mg/Kg	☼	07/17/17 05:28	07/17/17 12:01	1
Toluene	ND		0.0051	0.0017	mg/Kg	☼	07/17/17 05:28	07/17/17 12:01	1
trans-1,2-Dichloroethene	ND		0.0051	0.0026	mg/Kg	☼	07/17/17 05:28	07/17/17 12:01	1
1,1,1-Trichloroethane	ND		0.0051	0.0025	mg/Kg	☼	07/17/17 05:28	07/17/17 12:01	1
Trichloroethene	ND		0.0051	0.0015	mg/Kg	☼	07/17/17 05:28	07/17/17 12:01	1
1,2,4-Trimethylbenzene	ND		0.0051	0.0014	mg/Kg	☼	07/17/17 05:28	07/17/17 12:01	1
1,3,5-Trimethylbenzene	ND		0.0051	0.0017	mg/Kg	☼	07/17/17 05:28	07/17/17 12:01	1
Vinyl chloride	ND		0.0051	0.0037	mg/Kg	☼	07/17/17 05:28	07/17/17 12:01	1
Xylenes, Total	ND		0.010	0.0044	mg/Kg	☼	07/17/17 05:28	07/17/17 12:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*63 - 120*	*07/17/17 05:28*	*07/17/17 12:01*	*1*
Dibromofluoromethane (Surr)	*88*		*68 - 121*	*07/17/17 05:28*	*07/17/17 12:01*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*52 - 124*	*07/17/17 05:28*	*07/17/17 12:01*	*1*
Toluene-d8 (Surr)	*99*		*72 - 127*	*07/17/17 05:28*	*07/17/17 12:01*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**7.3**		0.1	0.1	%			07/14/17 13:15	1
Percent Solids	**92.7**		0.1	0.1	%			07/14/17 13:15	1

Client Sample ID: W5, S4, B 71217

Lab Sample ID: 180-68140-20
Date Collected: 07/12/17 12:50
Matrix: Solid
Date Received: 07/12/17 21:10
Percent Solids: 85.1

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.024	0.0038	mg/Kg	☼	07/16/17 09:00	07/16/17 16:53	1
Benzene	ND		0.0060	0.0024	mg/Kg	☼	07/16/17 09:00	07/16/17 16:53	1
2-Butanone (MEK)	ND		0.0060	0.0035	mg/Kg	☼	07/16/17 09:00	07/16/17 16:53	1

Client Sample ID: W5, S4, B 71217 — Lab Sample ID: 180-68140-20

Date Collected: 07/12/17 12:50 — **Matrix: Solid**
Date Received: 07/12/17 21:10 — **Percent Solids: 85.1**

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	ND		0.0060	0.0040	mg/Kg	☼	07/16/17 09:00	07/16/17 16:53	1
Chlorobenzene	ND		0.0060	0.0019	mg/Kg	☼	07/16/17 09:00	07/16/17 16:53	1
Chloroform	ND		0.0060	0.0025	mg/Kg	☼	07/16/17 09:00	07/16/17 16:53	1
cis-1,2-Dichloroethene	ND		0.0060	0.0019	mg/Kg	☼	07/16/17 09:00	07/16/17 16:53	1
1,2-Dichlorobenzene	ND		0.0060	0.0048	mg/Kg	☼	07/16/17 09:00	07/16/17 16:53	1
1,3-Dichlorobenzene	ND		0.0060	0.0019	mg/Kg	☼	07/16/17 09:00	07/16/17 16:53	1
1,4-Dichlorobenzene	ND		0.0060	0.0012	mg/Kg	☼	07/16/17 09:00	07/16/17 16:53	1
1,1-Dichloroethane	ND		0.0060	0.0022	mg/Kg	☼	07/16/17 09:00	07/16/17 16:53	1
1,2-Dichloroethane	ND		0.0060	0.0017	mg/Kg	☼	07/16/17 09:00	07/16/17 16:53	1
1,1-Dichloroethene	ND		0.0060	0.0034	mg/Kg	☼	07/16/17 09:00	07/16/17 16:53	1
Ethylbenzene	ND		0.0060	0.0026	mg/Kg	☼	07/16/17 09:00	07/16/17 16:53	1
Methylene Chloride	ND		0.0060	0.0028	mg/Kg	☼	07/16/17 09:00	07/16/17 16:53	1
Methyl tert-butyl ether	ND		0.0060	0.0044	mg/Kg	☼	07/16/17 09:00	07/16/17 16:53	1
n-Butylbenzene	ND		0.0060	0.0046	mg/Kg	☼	07/16/17 09:00	07/16/17 16:53	1
N-Propylbenzene	ND		0.0060	0.0025	mg/Kg	☼	07/16/17 09:00	07/16/17 16:53	1
sec-Butylbenzene	ND		0.0060	0.0029	mg/Kg	☼	07/16/17 09:00	07/16/17 16:53	1
tert-Butylbenzene	ND		0.0060	0.0022	mg/Kg	☼	07/16/17 09:00	07/16/17 16:53	1
Tetrachloroethene	ND		0.0060	0.0024	mg/Kg	☼	07/16/17 09:00	07/16/17 16:53	1
Toluene	ND		0.0060	0.0020	mg/Kg	☼	07/16/17 09:00	07/16/17 16:53	1
trans-1,2-Dichloroethene	ND		0.0060	0.0030	mg/Kg	☼	07/16/17 09:00	07/16/17 16:53	1
1,1,1-Trichloroethane	ND		0.0060	0.0030	mg/Kg	☼	07/16/17 09:00	07/16/17 16:53	1
Trichloroethene	ND		0.0060	0.0018	mg/Kg	☼	07/16/17 09:00	07/16/17 16:53	1
1,2,4-Trimethylbenzene	ND		0.0060	0.0016	mg/Kg	☼	07/16/17 09:00	07/16/17 16:53	1
1,3,5-Trimethylbenzene	ND		0.0060	0.0021	mg/Kg	☼	07/16/17 09:00	07/16/17 16:53	1
Vinyl chloride	ND		0.0060	0.0044	mg/Kg	☼	07/16/17 09:00	07/16/17 16:53	1
Xylenes, Total	ND		0.012	0.0052	mg/Kg	☼	07/16/17 09:00	07/16/17 16:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*63 - 120*	*07/16/17 09:00*	*07/16/17 16:53*	*1*
Dibromofluoromethane (Surr)	*91*		*68 - 121*	*07/16/17 09:00*	*07/16/17 16:53*	*1*
1,2-Dichloroethane-d4 (Surr)	*86*		*52 - 124*	*07/16/17 09:00*	*07/16/17 16:53*	*1*
Toluene-d8 (Surr)	*115*		*72 - 127*	*07/16/17 09:00*	*07/16/17 16:53*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**14.9**		0.1	0.1	%			07/14/17 13:15	1
Percent Solids	**85.1**		0.1	0.1	%			07/14/17 13:15	1

Client Sample ID: W5, S4, C 71217 — Lab Sample ID: 180-68140-21

Date Collected: 07/12/17 12:55 — **Matrix: Solid**
Date Received: 07/12/17 21:10 — **Percent Solids: 91.0**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.037	0.012	mg/Kg	☼	07/15/17 04:42	07/17/17 18:41	5
Acenaphthylene	**0.12**		0.037	0.012	mg/Kg	☼	07/15/17 04:42	07/17/17 18:41	5
Anthracene	**0.18**		0.037	0.014	mg/Kg	☼	07/15/17 04:42	07/17/17 18:41	5
Benzo[a]anthracene	**0.49**		0.037	0.015	mg/Kg	☼	07/15/17 04:42	07/17/17 18:41	5
Benzo[a]pyrene	**0.49**		0.037	0.015	mg/Kg	☼	07/15/17 04:42	07/17/17 18:41	5
Benzo[b]fluoranthene	**0.57**		0.037	0.016	mg/Kg	☼	07/15/17 04:42	07/17/17 18:41	5

Client Sample ID: W5, S4, C 71217 **Lab Sample ID: 180-68140-21**
Date Collected: 07/12/17 12:55 **Matrix: Solid**
Date Received: 07/12/17 21:10 **Percent Solids: 91.0**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	**0.52**		0.037	0.016	mg/Kg	☼	07/15/17 04:42	07/17/17 18:41	5
Benzo[k]fluoranthene	**0.22**		0.037	0.013	mg/Kg	☼	07/15/17 04:42	07/17/17 18:41	5
Chrysene	**0.43**		0.037	0.014	mg/Kg	☼	07/15/17 04:42	07/17/17 18:41	5
Dibenz(a,h)anthracene	**0.13**		0.037	0.015	mg/Kg	☼	07/15/17 04:42	07/17/17 18:41	5
Dibenzofuran	**0.031**	**J**	0.18	0.015	mg/Kg	☼	07/15/17 04:42	07/17/17 18:41	5
2,4-Dinitrotoluene	ND		0.18	0.024	mg/Kg	☼	07/15/17 04:42	07/17/17 18:41	5
1,4-Dioxane	ND		0.37	0.028	mg/Kg	☼	07/15/17 04:42	07/17/17 18:41	5
Fluoranthene	**0.83**		0.037	0.014	mg/Kg	☼	07/15/17 04:42	07/17/17 18:41	5
Fluorene	**0.024**	**J**	0.037	0.013	mg/Kg	☼	07/15/17 04:42	07/17/17 18:41	5
Hexachlorobenzene	ND		0.037	0.015	mg/Kg	☼	07/15/17 04:42	07/17/17 18:41	5
Hexachlorobutadiene	ND		0.037	0.012	mg/Kg	☼	07/15/17 04:42	07/17/17 18:41	5
Hexachloroethane	ND		0.18	0.013	mg/Kg	☼	07/15/17 04:42	07/17/17 18:41	5
Indeno[1,2,3-cd]pyrene	**0.44**		0.037	0.014	mg/Kg	☼	07/15/17 04:42	07/17/17 18:41	5
2-Methylphenol	ND		0.18	0.016	mg/Kg	☼	07/15/17 04:42	07/17/17 18:41	5
Methylphenol, 3 & 4	ND		0.18	0.016	mg/Kg	☼	07/15/17 04:42	07/17/17 18:41	5
Naphthalene	**0.095**		0.037	0.013	mg/Kg	☼	07/15/17 04:42	07/17/17 18:41	5
Nitrobenzene	ND		0.37	0.014	mg/Kg	☼	07/15/17 04:42	07/17/17 18:41	5
Pentachlorophenol	ND		0.93	0.35	mg/Kg	☼	07/15/17 04:42	07/17/17 18:41	5
Phenanthrene	**0.38**		0.037	0.015	mg/Kg	☼	07/15/17 04:42	07/17/17 18:41	5
Phenol	ND		0.18	0.025	mg/Kg	☼	07/15/17 04:42	07/17/17 18:41	5
Pyrene	**0.63**		0.037	0.016	mg/Kg	☼	07/15/17 04:42	07/17/17 18:41	5
Pyridine	ND		0.18	0.018	mg/Kg	☼	07/15/17 04:42	07/17/17 18:41	5
2,4,5-Trichlorophenol	ND		0.18	0.017	mg/Kg	☼	07/15/17 04:42	07/17/17 18:41	5
2,4,6-Trichlorophenol	ND		0.18	0.016	mg/Kg	☼	07/15/17 04:42	07/17/17 18:41	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*62*		*42 - 100*	*07/15/17 04:42*	*07/17/17 18:41*	*5*
2-Fluorophenol (Surr)	*43*		*21 - 107*	*07/15/17 04:42*	*07/17/17 18:41*	*5*
Nitrobenzene-d5 (Surr)	*63*		*35 - 109*	*07/15/17 04:42*	*07/17/17 18:41*	*5*
Phenol-d5 (Surr)	*49*		*29 - 105*	*07/15/17 04:42*	*07/17/17 18:41*	*5*
Terphenyl-d14 (Surr)	*54*		*36 - 113*	*07/15/17 04:42*	*07/17/17 18:41*	*5*
2,4,6-Tribromophenol (Surr)	*54*		*20 - 134*	*07/15/17 04:42*	*07/17/17 18:41*	*5*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.018	0.0095	mg/Kg	☼	07/15/17 04:45	07/16/17 00:42	1
PCB-1221	ND		0.018	0.0093	mg/Kg	☼	07/15/17 04:45	07/16/17 00:42	1
PCB-1232	ND		0.018	0.0071	mg/Kg	☼	07/15/17 04:45	07/16/17 00:42	1
PCB-1242	ND		0.018	0.014	mg/Kg	☼	07/15/17 04:45	07/16/17 00:42	1
PCB-1248	**0.91**		0.018	0.0086	mg/Kg	☼	07/15/17 04:45	07/16/17 00:42	1
PCB-1254	**0.64**		0.018	0.0079	mg/Kg	☼	07/15/17 04:45	07/16/17 00:42	1
PCB-1260	**0.19**		0.018	0.012	mg/Kg	☼	07/15/17 04:45	07/16/17 00:42	1
PCB-1262	ND		0.018	0.013	mg/Kg	☼	07/15/17 04:45	07/16/17 00:42	1
PCB-1268	ND		0.018	0.0055	mg/Kg	☼	07/15/17 04:45	07/16/17 00:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*75*		*23 - 150*	*07/15/17 04:45*	*07/16/17 00:42*	*1*
DCB Decachlorobiphenyl (Surr)	*81*		*23 - 150*	*07/15/17 04:45*	*07/16/17 00:42*	*1*
Tetrachloro-m-xylene (Surr)	*72*		*27 - 138*	*07/15/17 04:45*	*07/16/17 00:42*	*1*
Tetrachloro-m-xylene (Surr)	*73*		*27 - 138*	*07/15/17 04:45*	*07/16/17 00:42*	*1*

Client Sample ID: W5, S4, C 71217

Date Collected: 07/12/17 12:55
Date Received: 07/12/17 21:10

Lab Sample ID: 180-68140-21

Matrix: Solid
Percent Solids: 91.0

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	11		1.1	0.50	mg/Kg	☼	07/14/17 11:31	07/17/17 09:10	1
Barium	85		23	6.1	mg/Kg	☼	07/14/17 11:31	07/17/17 09:10	1
Beryllium	0.42	J	0.46	0.12	mg/Kg	☼	07/14/17 11:31	07/17/17 09:10	1
Cadmium	0.62		0.57	0.13	mg/Kg	☼	07/14/17 11:31	07/17/17 09:10	1
Chromium	11		0.57	0.15	mg/Kg	☼	07/14/17 11:31	07/17/17 09:10	1
Copper	25		2.9	0.88	mg/Kg	☼	07/14/17 11:31	07/17/17 09:10	1
Lead	33		1.1	0.38	mg/Kg	☼	07/14/17 11:31	07/17/17 09:10	1
Manganese	510		1.7	0.46	mg/Kg	☼	07/14/17 11:31	07/17/17 09:10	1
Nickel	23		4.6	1.0	mg/Kg	☼	07/14/17 11:31	07/17/17 09:10	1
Selenium	0.57	J	1.1	0.45	mg/Kg	☼	07/14/17 11:31	07/17/17 09:10	1
Silver	ND		0.57	0.19	mg/Kg	☼	07/14/17 11:31	07/17/17 09:10	1
Zinc	76		2.3	1.2	mg/Kg	☼	07/14/17 11:31	07/17/17 09:10	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.27		0.036	0.0081	mg/Kg	☼	07/18/17 14:49	07/19/17 12:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.0		0.1	0.1	%			07/14/17 13:15	1
Percent Solids	91.0		0.1	0.1	%			07/14/17 13:15	1
Cyanide, Total	ND		0.49	0.15	mg/Kg	☼	07/18/17 10:56	07/18/17 14:21	1

Client Sample ID: W5, S3, A 71217

Date Collected: 07/12/17 13:15
Date Received: 07/12/17 21:10

Lab Sample ID: 180-68140-22

Matrix: Solid
Percent Solids: 93.8

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.022	0.0034	mg/Kg	☼	07/17/17 05:28	07/17/17 12:46	1
Benzene	ND		0.0055	0.0021	mg/Kg	☼	07/17/17 05:28	07/17/17 12:46	1
2-Butanone (MEK)	ND		0.0055	0.0032	mg/Kg	☼	07/17/17 05:28	07/17/17 12:46	1
Carbon tetrachloride	ND		0.0055	0.0036	mg/Kg	☼	07/17/17 05:28	07/17/17 12:46	1
Chlorobenzene	ND		0.0055	0.0017	mg/Kg	☼	07/17/17 05:28	07/17/17 12:46	1
Chloroform	ND		0.0055	0.0023	mg/Kg	☼	07/17/17 05:28	07/17/17 12:46	1
cis-1,2-Dichloroethene	ND		0.0055	0.0017	mg/Kg	☼	07/17/17 05:28	07/17/17 12:46	1
1,2-Dichlorobenzene	ND		0.0055	0.0044	mg/Kg	☼	07/17/17 05:28	07/17/17 12:46	1
1,3-Dichlorobenzene	ND		0.0055	0.0017	mg/Kg	☼	07/17/17 05:28	07/17/17 12:46	1
1,4-Dichlorobenzene	ND		0.0055	0.0011	mg/Kg	☼	07/17/17 05:28	07/17/17 12:46	1
1,1-Dichloroethane	ND		0.0055	0.0020	mg/Kg	☼	07/17/17 05:28	07/17/17 12:46	1
1,2-Dichloroethane	ND		0.0055	0.0016	mg/Kg	☼	07/17/17 05:28	07/17/17 12:46	1
1,1-Dichloroethene	ND		0.0055	0.0031	mg/Kg	☼	07/17/17 05:28	07/17/17 12:46	1
Ethylbenzene	ND		0.0055	0.0023	mg/Kg	☼	07/17/17 05:28	07/17/17 12:46	1
Methylene Chloride	ND		0.0055	0.0026	mg/Kg	☼	07/17/17 05:28	07/17/17 12:46	1
Methyl tert-butyl ether	ND		0.0055	0.0040	mg/Kg	☼	07/17/17 05:28	07/17/17 12:46	1
n-Butylbenzene	ND		0.0055	0.0041	mg/Kg	☼	07/17/17 05:28	07/17/17 12:46	1
N-Propylbenzene	ND		0.0055	0.0023	mg/Kg	☼	07/17/17 05:28	07/17/17 12:46	1
sec-Butylbenzene	ND		0.0055	0.0027	mg/Kg	☼	07/17/17 05:28	07/17/17 12:46	1
tert-Butylbenzene	ND		0.0055	0.0020	mg/Kg	☼	07/17/17 05:28	07/17/17 12:46	1
Tetrachloroethene	ND		0.0055	0.0022	mg/Kg	☼	07/17/17 05:28	07/17/17 12:46	1

Client Sample ID: W5, S3, A 71217

Date Collected: 07/12/17 13:15
Date Received: 07/12/17 21:10

Lab Sample ID: 180-68140-22

Matrix: Solid
Percent Solids: 93.8

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		0.0055	0.0018	mg/Kg	☼	07/17/17 05:28	07/17/17 12:46	1
trans-1,2-Dichloroethene	ND		0.0055	0.0028	mg/Kg	☼	07/17/17 05:28	07/17/17 12:46	1
1,1,1-Trichloroethane	ND		0.0055	0.0027	mg/Kg	☼	07/17/17 05:28	07/17/17 12:46	1
Trichloroethene	ND		0.0055	0.0016	mg/Kg	☼	07/17/17 05:28	07/17/17 12:46	1
1,2,4-Trimethylbenzene	ND		0.0055	0.0015	mg/Kg	☼	07/17/17 05:28	07/17/17 12:46	1
1,3,5-Trimethylbenzene	ND		0.0055	0.0019	mg/Kg	☼	07/17/17 05:28	07/17/17 12:46	1
Vinyl chloride	ND		0.0055	0.0040	mg/Kg	☼	07/17/17 05:28	07/17/17 12:46	1
Xylenes, Total	ND		0.011	0.0047	mg/Kg	☼	07/17/17 05:28	07/17/17 12:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*63 - 120*	*07/17/17 05:28*	*07/17/17 12:46*	*1*
Dibromofluoromethane (Surr)	*90*		*68 - 121*	*07/17/17 05:28*	*07/17/17 12:46*	*1*
1,2-Dichloroethane-d4 (Surr)	*87*		*52 - 124*	*07/17/17 05:28*	*07/17/17 12:46*	*1*
Toluene-d8 (Surr)	*111*		*72 - 127*	*07/17/17 05:28*	*07/17/17 12:46*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**6.2**		0.1	0.1	%			07/14/17 13:15	1
Percent Solids	**93.8**		0.1	0.1	%			07/14/17 13:15	1

Client Sample ID: W5, S3, B 71217

Date Collected: 07/12/17 13:20
Date Received: 07/12/17 21:10

Lab Sample ID: 180-68140-23

Matrix: Solid
Percent Solids: 92.1

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.021	0.0033	mg/Kg	☼	07/16/17 09:00	07/16/17 17:38	1
Benzene	ND		0.0052	0.0020	mg/Kg	☼	07/16/17 09:00	07/16/17 17:38	1
2-Butanone (MEK)	ND		0.0052	0.0030	mg/Kg	☼	07/16/17 09:00	07/16/17 17:38	1
Carbon tetrachloride	ND		0.0052	0.0034	mg/Kg	☼	07/16/17 09:00	07/16/17 17:38	1
Chlorobenzene	ND		0.0052	0.0016	mg/Kg	☼	07/16/17 09:00	07/16/17 17:38	1
Chloroform	ND		0.0052	0.0022	mg/Kg	☼	07/16/17 09:00	07/16/17 17:38	1
cis-1,2-Dichloroethene	ND		0.0052	0.0016	mg/Kg	☼	07/16/17 09:00	07/16/17 17:38	1
1,2-Dichlorobenzene	ND		0.0052	0.0042	mg/Kg	☼	07/16/17 09:00	07/16/17 17:38	1
1,3-Dichlorobenzene	ND		0.0052	0.0017	mg/Kg	☼	07/16/17 09:00	07/16/17 17:38	1
1,4-Dichlorobenzene	ND		0.0052	0.0011	mg/Kg	☼	07/16/17 09:00	07/16/17 17:38	1
1,1-Dichloroethane	ND		0.0052	0.0019	mg/Kg	☼	07/16/17 09:00	07/16/17 17:38	1
1,2-Dichloroethane	ND		0.0052	0.0015	mg/Kg	☼	07/16/17 09:00	07/16/17 17:38	1
1,1-Dichloroethene	ND		0.0052	0.0030	mg/Kg	☼	07/16/17 09:00	07/16/17 17:38	1
Ethylbenzene	ND		0.0052	0.0022	mg/Kg	☼	07/16/17 09:00	07/16/17 17:38	1
Methylene Chloride	ND		0.0052	0.0024	mg/Kg	☼	07/16/17 09:00	07/16/17 17:38	1
Methyl tert-butyl ether	ND		0.0052	0.0038	mg/Kg	☼	07/16/17 09:00	07/16/17 17:38	1
n-Butylbenzene	ND		0.0052	0.0039	mg/Kg	☼	07/16/17 09:00	07/16/17 17:38	1
N-Propylbenzene	ND		0.0052	0.0022	mg/Kg	☼	07/16/17 09:00	07/16/17 17:38	1
sec-Butylbenzene	ND		0.0052	0.0025	mg/Kg	☼	07/16/17 09:00	07/16/17 17:38	1
tert-Butylbenzene	ND		0.0052	0.0019	mg/Kg	☼	07/16/17 09:00	07/16/17 17:38	1
Tetrachloroethene	ND		0.0052	0.0021	mg/Kg	☼	07/16/17 09:00	07/16/17 17:38	1
Toluene	ND		0.0052	0.0017	mg/Kg	☼	07/16/17 09:00	07/16/17 17:38	1
trans-1,2-Dichloroethene	ND		0.0052	0.0026	mg/Kg	☼	07/16/17 09:00	07/16/17 17:38	1
1,1,1-Trichloroethane	ND		0.0052	0.0026	mg/Kg	☼	07/16/17 09:00	07/16/17 17:38	1

Client Sample ID: W5, S3, B 71217 — Lab Sample ID: 180-68140-23

Date Collected: 07/12/17 13:20 — **Matrix: Solid**
Date Received: 07/12/17 21:10 — **Percent Solids: 92.1**

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	ND		0.0052	0.0016	mg/Kg	☼	07/16/17 09:00	07/16/17 17:38	1
1,2,4-Trimethylbenzene	ND		0.0052	0.0014	mg/Kg	☼	07/16/17 09:00	07/16/17 17:38	1
1,3,5-Trimethylbenzene	ND		0.0052	0.0018	mg/Kg	☼	07/16/17 09:00	07/16/17 17:38	1
Vinyl chloride	ND		0.0052	0.0038	mg/Kg	☼	07/16/17 09:00	07/16/17 17:38	1
Xylenes, Total	ND		0.010	0.0045	mg/Kg	☼	07/16/17 09:00	07/16/17 17:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*63 - 120*	*07/16/17 09:00*	*07/16/17 17:38*	*1*
Dibromofluoromethane (Surr)	*95*		*68 - 121*	*07/16/17 09:00*	*07/16/17 17:38*	*1*
1,2-Dichloroethane-d4 (Surr)	*87*		*52 - 124*	*07/16/17 09:00*	*07/16/17 17:38*	*1*
Toluene-d8 (Surr)	*118*		*72 - 127*	*07/16/17 09:00*	*07/16/17 17:38*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**7.9**		0.1	0.1	%			07/14/17 13:15	1
Percent Solids	**92.1**		0.1	0.1	%			07/14/17 13:15	1

Client Sample ID: W5, S3, C 71217 — Lab Sample ID: 180-68140-24

Date Collected: 07/12/17 13:25 — **Matrix: Solid**
Date Received: 07/12/17 21:10 — **Percent Solids: 90.9**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.013**	**J**	0.015	0.0049	mg/Kg	☼	07/15/17 04:42	07/17/17 19:08	2
Acenaphthylene	**0.16**		0.015	0.0049	mg/Kg	☼	07/15/17 04:42	07/17/17 19:08	2
Anthracene	**0.25**		0.015	0.0053	mg/Kg	☼	07/15/17 04:42	07/17/17 19:08	2
Benzo[a]anthracene	**0.83**		0.015	0.0057	mg/Kg	☼	07/15/17 04:42	07/17/17 19:08	2
Benzo[a]pyrene	**0.87**		0.015	0.0060	mg/Kg	☼	07/15/17 04:42	07/17/17 19:08	2
Benzo[b]fluoranthene	**0.98**		0.015	0.0063	mg/Kg	☼	07/15/17 04:42	07/17/17 19:08	2
Benzo[g,h,i]perylene	**0.86**		0.015	0.0063	mg/Kg	☼	07/15/17 04:42	07/17/17 19:08	2
Benzo[k]fluoranthene	**0.38**		0.015	0.0050	mg/Kg	☼	07/15/17 04:42	07/17/17 19:08	2
Chrysene	**0.74**		0.015	0.0057	mg/Kg	☼	07/15/17 04:42	07/17/17 19:08	2
Dibenz(a,h)anthracene	**0.21**		0.015	0.0060	mg/Kg	☼	07/15/17 04:42	07/17/17 19:08	2
Dibenzofuran	**0.044**	**J**	0.072	0.0058	mg/Kg	☼	07/15/17 04:42	07/17/17 19:08	2
2,4-Dinitrotoluene	ND		0.072	0.0096	mg/Kg	☼	07/15/17 04:42	07/17/17 19:08	2
1,4-Dioxane	ND		0.14	0.011	mg/Kg	☼	07/15/17 04:42	07/17/17 19:08	2
Fluoranthene	**1.4**		0.015	0.0057	mg/Kg	☼	07/15/17 04:42	07/17/17 19:08	2
Fluorene	**0.034**		0.015	0.0052	mg/Kg	☼	07/15/17 04:42	07/17/17 19:08	2
Hexachlorobenzene	ND		0.015	0.0058	mg/Kg	☼	07/15/17 04:42	07/17/17 19:08	2
Hexachlorobutadiene	ND		0.015	0.0046	mg/Kg	☼	07/15/17 04:42	07/17/17 19:08	2
Hexachloroethane	ND		0.072	0.0052	mg/Kg	☼	07/15/17 04:42	07/17/17 19:08	2
Indeno[1,2,3-cd]pyrene	**0.78**		0.015	0.0056	mg/Kg	☼	07/15/17 04:42	07/17/17 19:08	2
2-Methylphenol	ND		0.072	0.0064	mg/Kg	☼	07/15/17 04:42	07/17/17 19:08	2
Methylphenol, 3 & 4	**0.0072**	**J**	0.072	0.0064	mg/Kg	☼	07/15/17 04:42	07/17/17 19:08	2
Naphthalene	**0.17**		0.015	0.0052	mg/Kg	☼	07/15/17 04:42	07/17/17 19:08	2
Nitrobenzene	ND		0.14	0.0055	mg/Kg	☼	07/15/17 04:42	07/17/17 19:08	2
Pentachlorophenol	ND		0.37	0.14	mg/Kg	☼	07/15/17 04:42	07/17/17 19:08	2
Phenanthrene	**0.61**		0.015	0.0060	mg/Kg	☼	07/15/17 04:42	07/17/17 19:08	2
Phenol	ND		0.072	0.0098	mg/Kg	☼	07/15/17 04:42	07/17/17 19:08	2
Pyrene	**1.1**		0.015	0.0064	mg/Kg	☼	07/15/17 04:42	07/17/17 19:08	2

Client Sample ID: W5, S3, C 71217 **Lab Sample ID: 180-68140-24**
Date Collected: 07/12/17 13:25 **Matrix: Solid**
Date Received: 07/12/17 21:10 **Percent Solids: 90.9**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyridine	ND		0.072	0.0069	mg/Kg	☼	07/15/17 04:42	07/17/17 19:08	2
2,4,5-Trichlorophenol	ND		0.072	0.0069	mg/Kg	☼	07/15/17 04:42	07/17/17 19:08	2
2,4,6-Trichlorophenol	ND		0.072	0.0063	mg/Kg	☼	07/15/17 04:42	07/17/17 19:08	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*57*		*42 - 100*	*07/15/17 04:42*	*07/17/17 19:08*	*2*
2-Fluorophenol (Surr)	*50*		*21 - 107*	*07/15/17 04:42*	*07/17/17 19:08*	*2*
Nitrobenzene-d5 (Surr)	*62*		*35 - 109*	*07/15/17 04:42*	*07/17/17 19:08*	*2*
Phenol-d5 (Surr)	*47*		*29 - 105*	*07/15/17 04:42*	*07/17/17 19:08*	*2*
Terphenyl-d14 (Surr)	*44*		*36 - 113*	*07/15/17 04:42*	*07/17/17 19:08*	*2*
2,4,6-Tribromophenol (Surr)	*52*		*20 - 134*	*07/15/17 04:42*	*07/17/17 19:08*	*2*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.018	0.0095	mg/Kg	☼	07/15/17 04:45	07/16/17 01:47	1
PCB-1221	ND		0.018	0.0092	mg/Kg	☼	07/15/17 04:45	07/16/17 01:47	1
PCB-1232	ND		0.018	0.0071	mg/Kg	☼	07/15/17 04:45	07/16/17 01:47	1
PCB-1242	ND		0.018	0.014	mg/Kg	☼	07/15/17 04:45	07/16/17 01:47	1
PCB-1248	**0.71**		0.018	0.0085	mg/Kg	☼	07/15/17 04:45	07/16/17 01:47	1
PCB-1254	**0.47**		0.018	0.0078	mg/Kg	☼	07/15/17 04:45	07/16/17 01:47	1
PCB-1260	**0.14**		0.018	0.012	mg/Kg	☼	07/15/17 04:45	07/16/17 01:47	1
PCB-1262	ND		0.018	0.013	mg/Kg	☼	07/15/17 04:45	07/16/17 01:47	1
PCB-1268	ND		0.018	0.0054	mg/Kg	☼	07/15/17 04:45	07/16/17 01:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*84*		*23 - 150*	*07/15/17 04:45*	*07/16/17 01:47*	*1*
DCB Decachlorobiphenyl (Surr)	*94*		*23 - 150*	*07/15/17 04:45*	*07/16/17 01:47*	*1*
Tetrachloro-m-xylene (Surr)	*80*		*27 - 138*	*07/15/17 04:45*	*07/16/17 01:47*	*1*
Tetrachloro-m-xylene (Surr)	*83*		*27 - 138*	*07/15/17 04:45*	*07/16/17 01:47*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**6.3**		1.2	0.52	mg/Kg	☼	07/14/17 11:31	07/17/17 09:15	1
Barium	**86**		24	6.3	mg/Kg	☼	07/14/17 11:31	07/17/17 09:15	1
Beryllium	**0.33**	**J**	0.47	0.12	mg/Kg	☼	07/14/17 11:31	07/17/17 09:15	1
Cadmium	**0.30**	**J**	0.59	0.13	mg/Kg	☼	07/14/17 11:31	07/17/17 09:15	1
Chromium	**8.7**		0.59	0.15	mg/Kg	☼	07/14/17 11:31	07/17/17 09:15	1
Copper	**22**		3.0	0.91	mg/Kg	☼	07/14/17 11:31	07/17/17 09:15	1
Lead	**28**		1.2	0.39	mg/Kg	☼	07/14/17 11:31	07/17/17 09:15	1
Manganese	**360**		1.8	0.48	mg/Kg	☼	07/14/17 11:31	07/17/17 09:15	1
Nickel	**16**		4.7	1.1	mg/Kg	☼	07/14/17 11:31	07/17/17 09:15	1
Selenium	**0.55**	**J**	1.2	0.47	mg/Kg	☼	07/14/17 11:31	07/17/17 09:15	1
Silver	ND		0.59	0.20	mg/Kg	☼	07/14/17 11:31	07/17/17 09:15	1
Zinc	**63**		2.4	1.2	mg/Kg	☼	07/14/17 11:31	07/17/17 09:15	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.24**		0.036	0.0080	mg/Kg	☼	07/18/17 14:49	07/19/17 12:22	1

Client Sample ID: W5, S3, C 71217 — Lab Sample ID: 180-68140-24

Date Collected: 07/12/17 13:25 — **Matrix: Solid**
Date Received: 07/12/17 21:10 — **Percent Solids: 90.9**

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.1**		0.1	0.1	%			07/14/17 13:15	1
Percent Solids	**90.9**		0.1	0.1	%			07/14/17 13:15	1
Cyanide, Total	ND		0.51	0.16	mg/Kg	☼	07/18/17 10:56	07/18/17 14:23	1

Client Sample ID: W5, S2, A 71217 — Lab Sample ID: 180-68140-25

Date Collected: 07/12/17 13:45 — **Matrix: Solid**
Date Received: 07/12/17 21:10 — **Percent Solids: 94.2**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.021	0.0033	mg/Kg	☼	07/16/17 09:00	07/16/17 18:01	1
Benzene	ND		0.0052	0.0020	mg/Kg	☼	07/16/17 09:00	07/16/17 18:01	1
2-Butanone (MEK)	ND		0.0052	0.0030	mg/Kg	☼	07/16/17 09:00	07/16/17 18:01	1
Carbon tetrachloride	ND		0.0052	0.0035	mg/Kg	☼	07/16/17 09:00	07/16/17 18:01	1
Chlorobenzene	ND		0.0052	0.0016	mg/Kg	☼	07/16/17 09:00	07/16/17 18:01	1
Chloroform	ND		0.0052	0.0022	mg/Kg	☼	07/16/17 09:00	07/16/17 18:01	1
cis-1,2-Dichloroethene	ND		0.0052	0.0016	mg/Kg	☼	07/16/17 09:00	07/16/17 18:01	1
1,2-Dichlorobenzene	ND		0.0052	0.0042	mg/Kg	☼	07/16/17 09:00	07/16/17 18:01	1
1,3-Dichlorobenzene	ND		0.0052	0.0017	mg/Kg	☼	07/16/17 09:00	07/16/17 18:01	1
1,4-Dichlorobenzene	ND		0.0052	0.0011	mg/Kg	☼	07/16/17 09:00	07/16/17 18:01	1
1,1-Dichloroethane	ND		0.0052	0.0019	mg/Kg	☼	07/16/17 09:00	07/16/17 18:01	1
1,2-Dichloroethane	ND		0.0052	0.0015	mg/Kg	☼	07/16/17 09:00	07/16/17 18:01	1
1,1-Dichloroethene	ND		0.0052	0.0030	mg/Kg	☼	07/16/17 09:00	07/16/17 18:01	1
Ethylbenzene	ND		0.0052	0.0022	mg/Kg	☼	07/16/17 09:00	07/16/17 18:01	1
Methylene Chloride	ND		0.0052	0.0025	mg/Kg	☼	07/16/17 09:00	07/16/17 18:01	1
Methyl tert-butyl ether	ND		0.0052	0.0038	mg/Kg	☼	07/16/17 09:00	07/16/17 18:01	1
n-Butylbenzene	ND		0.0052	0.0039	mg/Kg	☼	07/16/17 09:00	07/16/17 18:01	1
N-Propylbenzene	ND		0.0052	0.0022	mg/Kg	☼	07/16/17 09:00	07/16/17 18:01	1
sec-Butylbenzene	ND		0.0052	0.0025	mg/Kg	☼	07/16/17 09:00	07/16/17 18:01	1
tert-Butylbenzene	ND		0.0052	0.0019	mg/Kg	☼	07/16/17 09:00	07/16/17 18:01	1
Tetrachloroethene	ND		0.0052	0.0021	mg/Kg	☼	07/16/17 09:00	07/16/17 18:01	1
Toluene	ND		0.0052	0.0018	mg/Kg	☼	07/16/17 09:00	07/16/17 18:01	1
trans-1,2-Dichloroethene	ND		0.0052	0.0026	mg/Kg	☼	07/16/17 09:00	07/16/17 18:01	1
1,1,1-Trichloroethane	ND		0.0052	0.0026	mg/Kg	☼	07/16/17 09:00	07/16/17 18:01	1
Trichloroethene	ND		0.0052	0.0016	mg/Kg	☼	07/16/17 09:00	07/16/17 18:01	1
1,2,4-Trimethylbenzene	ND		0.0052	0.0014	mg/Kg	☼	07/16/17 09:00	07/16/17 18:01	1
1,3,5-Trimethylbenzene	ND		0.0052	0.0018	mg/Kg	☼	07/16/17 09:00	07/16/17 18:01	1
Vinyl chloride	ND		0.0052	0.0038	mg/Kg	☼	07/16/17 09:00	07/16/17 18:01	1
Xylenes, Total	ND		0.010	0.0045	mg/Kg	☼	07/16/17 09:00	07/16/17 18:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*63 - 120*	*07/16/17 09:00*	*07/16/17 18:01*	*1*
Dibromofluoromethane (Surr)	*91*		*68 - 121*	*07/16/17 09:00*	*07/16/17 18:01*	*1*
1,2-Dichloroethane-d4 (Surr)	*84*		*52 - 124*	*07/16/17 09:00*	*07/16/17 18:01*	*1*
Toluene-d8 (Surr)	*121*		*72 - 127*	*07/16/17 09:00*	*07/16/17 18:01*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**5.8**		0.1	0.1	%			07/14/17 13:15	1
Percent Solids	**94.2**		0.1	0.1	%			07/14/17 13:15	1

Client Sample ID: W5, S2, B 71217 — Lab Sample ID: 180-68140-26

Date Collected: 07/12/17 13:50 — **Matrix: Solid**
Date Received: 07/12/17 21:10 — **Percent Solids: 92.3**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.021	0.0033	mg/Kg	☼	07/16/17 09:00	07/16/17 18:23	1
Benzene	ND		0.0052	0.0020	mg/Kg	☼	07/16/17 09:00	07/16/17 18:23	1
2-Butanone (MEK)	ND		0.0052	0.0030	mg/Kg	☼	07/16/17 09:00	07/16/17 18:23	1
Carbon tetrachloride	ND		0.0052	0.0034	mg/Kg	☼	07/16/17 09:00	07/16/17 18:23	1
Chlorobenzene	ND		0.0052	0.0016	mg/Kg	☼	07/16/17 09:00	07/16/17 18:23	1
Chloroform	ND		0.0052	0.0022	mg/Kg	☼	07/16/17 09:00	07/16/17 18:23	1
cis-1,2-Dichloroethene	ND		0.0052	0.0016	mg/Kg	☼	07/16/17 09:00	07/16/17 18:23	1
1,2-Dichlorobenzene	ND		0.0052	0.0042	mg/Kg	☼	07/16/17 09:00	07/16/17 18:23	1
1,3-Dichlorobenzene	ND		0.0052	0.0017	mg/Kg	☼	07/16/17 09:00	07/16/17 18:23	1
1,4-Dichlorobenzene	ND		0.0052	0.0011	mg/Kg	☼	07/16/17 09:00	07/16/17 18:23	1
1,1-Dichloroethane	ND		0.0052	0.0019	mg/Kg	☼	07/16/17 09:00	07/16/17 18:23	1
1,2-Dichloroethane	ND		0.0052	0.0015	mg/Kg	☼	07/16/17 09:00	07/16/17 18:23	1
1,1-Dichloroethene	ND		0.0052	0.0030	mg/Kg	☼	07/16/17 09:00	07/16/17 18:23	1
Ethylbenzene	ND		0.0052	0.0022	mg/Kg	☼	07/16/17 09:00	07/16/17 18:23	1
Methylene Chloride	ND		0.0052	0.0025	mg/Kg	☼	07/16/17 09:00	07/16/17 18:23	1
Methyl tert-butyl ether	ND		0.0052	0.0038	mg/Kg	☼	07/16/17 09:00	07/16/17 18:23	1
n-Butylbenzene	ND		0.0052	0.0039	mg/Kg	☼	07/16/17 09:00	07/16/17 18:23	1
N-Propylbenzene	ND		0.0052	0.0022	mg/Kg	☼	07/16/17 09:00	07/16/17 18:23	1
sec-Butylbenzene	ND		0.0052	0.0025	mg/Kg	☼	07/16/17 09:00	07/16/17 18:23	1
tert-Butylbenzene	ND		0.0052	0.0019	mg/Kg	☼	07/16/17 09:00	07/16/17 18:23	1
Tetrachloroethene	ND		0.0052	0.0021	mg/Kg	☼	07/16/17 09:00	07/16/17 18:23	1
Toluene	ND		0.0052	0.0018	mg/Kg	☼	07/16/17 09:00	07/16/17 18:23	1
trans-1,2-Dichloroethene	ND		0.0052	0.0026	mg/Kg	☼	07/16/17 09:00	07/16/17 18:23	1
1,1,1-Trichloroethane	ND		0.0052	0.0026	mg/Kg	☼	07/16/17 09:00	07/16/17 18:23	1
Trichloroethene	ND		0.0052	0.0016	mg/Kg	☼	07/16/17 09:00	07/16/17 18:23	1
1,2,4-Trimethylbenzene	ND		0.0052	0.0014	mg/Kg	☼	07/16/17 09:00	07/16/17 18:23	1
1,3,5-Trimethylbenzene	ND		0.0052	0.0018	mg/Kg	☼	07/16/17 09:00	07/16/17 18:23	1
Vinyl chloride	ND		0.0052	0.0038	mg/Kg	☼	07/16/17 09:00	07/16/17 18:23	1
Xylenes, Total	ND		0.010	0.0045	mg/Kg	☼	07/16/17 09:00	07/16/17 18:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*63 - 120*	*07/16/17 09:00*	*07/16/17 18:23*	*1*
Dibromofluoromethane (Surr)	*87*		*68 - 121*	*07/16/17 09:00*	*07/16/17 18:23*	*1*
1,2-Dichloroethane-d4 (Surr)	*76*		*52 - 124*	*07/16/17 09:00*	*07/16/17 18:23*	*1*
Toluene-d8 (Surr)	*123*		*72 - 127*	*07/16/17 09:00*	*07/16/17 18:23*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**7.7**		0.1	0.1	%			07/14/17 13:15	1
Percent Solids	**92.3**		0.1	0.1	%			07/14/17 13:15	1

Client Sample ID: W5, S2, C 71217 — Lab Sample ID: 180-68140-27

Date Collected: 07/12/17 13:55 — **Matrix: Solid**
Date Received: 07/12/17 21:10 — **Percent Solids: 91.6**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.071	0.024	mg/Kg	☼	07/15/17 04:42	07/17/17 19:35	10
Acenaphthylene	**0.19**		0.071	0.024	mg/Kg	☼	07/15/17 04:42	07/17/17 19:35	10
Anthracene	**0.28**		0.071	0.026	mg/Kg	☼	07/15/17 04:42	07/17/17 19:35	10

Client Sample ID: W5, S2, C 71217 **Lab Sample ID: 180-68140-27**
Date Collected: 07/12/17 13:55 **Matrix: Solid**
Date Received: 07/12/17 21:10 **Percent Solids: 91.6**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	**1.0**		0.071	0.028	mg/Kg	☼	07/15/17 04:42	07/17/17 19:35	10
Benzo[a]pyrene	**1.0**		0.071	0.029	mg/Kg	☼	07/15/17 04:42	07/17/17 19:35	10
Benzo[b]fluoranthene	**1.1**		0.071	0.031	mg/Kg	☼	07/15/17 04:42	07/17/17 19:35	10
Benzo[g,h,i]perylene	**1.0**		0.071	0.031	mg/Kg	☼	07/15/17 04:42	07/17/17 19:35	10
Benzo[k]fluoranthene	**0.40**		0.071	0.025	mg/Kg	☼	07/15/17 04:42	07/17/17 19:35	10
Chrysene	**0.87**		0.071	0.028	mg/Kg	☼	07/15/17 04:42	07/17/17 19:35	10
Dibenz(a,h)anthracene	**0.25**		0.071	0.029	mg/Kg	☼	07/15/17 04:42	07/17/17 19:35	10
Dibenzofuran	**0.052**	**J**	0.35	0.028	mg/Kg	☼	07/15/17 04:42	07/17/17 19:35	10
2,4-Dinitrotoluene	ND		0.35	0.047	mg/Kg	☼	07/15/17 04:42	07/17/17 19:35	10
1,4-Dioxane	ND		0.71	0.053	mg/Kg	☼	07/15/17 04:42	07/17/17 19:35	10
Fluoranthene	**1.6**		0.071	0.028	mg/Kg	☼	07/15/17 04:42	07/17/17 19:35	10
Fluorene	**0.036**	**J**	0.071	0.025	mg/Kg	☼	07/15/17 04:42	07/17/17 19:35	10
Hexachlorobenzene	ND		0.071	0.029	mg/Kg	☼	07/15/17 04:42	07/17/17 19:35	10
Hexachlorobutadiene	ND		0.071	0.022	mg/Kg	☼	07/15/17 04:42	07/17/17 19:35	10
Hexachloroethane	ND		0.35	0.025	mg/Kg	☼	07/15/17 04:42	07/17/17 19:35	10
Indeno[1,2,3-cd]pyrene	**0.95**		0.071	0.027	mg/Kg	☼	07/15/17 04:42	07/17/17 19:35	10
2-Methylphenol	ND		0.35	0.031	mg/Kg	☼	07/15/17 04:42	07/17/17 19:35	10
Methylphenol, 3 & 4	ND		0.35	0.031	mg/Kg	☼	07/15/17 04:42	07/17/17 19:35	10
Naphthalene	**0.17**		0.071	0.025	mg/Kg	☼	07/15/17 04:42	07/17/17 19:35	10
Nitrobenzene	ND		0.71	0.027	mg/Kg	☼	07/15/17 04:42	07/17/17 19:35	10
Pentachlorophenol	ND		1.8	0.67	mg/Kg	☼	07/15/17 04:42	07/17/17 19:35	10
Phenanthrene	**0.58**		0.071	0.030	mg/Kg	☼	07/15/17 04:42	07/17/17 19:35	10
Phenol	ND		0.35	0.048	mg/Kg	☼	07/15/17 04:42	07/17/17 19:35	10
Pyrene	**1.2**		0.071	0.032	mg/Kg	☼	07/15/17 04:42	07/17/17 19:35	10
Pyridine	ND		0.35	0.034	mg/Kg	☼	07/15/17 04:42	07/17/17 19:35	10
2,4,5-Trichlorophenol	ND		0.35	0.034	mg/Kg	☼	07/15/17 04:42	07/17/17 19:35	10
2,4,6-Trichlorophenol	ND		0.35	0.031	mg/Kg	☼	07/15/17 04:42	07/17/17 19:35	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*60*		*42 - 100*	*07/15/17 04:42*	*07/17/17 19:35*	*10*
2-Fluorophenol (Surr)	*51*		*21 - 107*	*07/15/17 04:42*	*07/17/17 19:35*	*10*
Nitrobenzene-d5 (Surr)	*58*		*35 - 109*	*07/15/17 04:42*	*07/17/17 19:35*	*10*
Phenol-d5 (Surr)	*47*		*29 - 105*	*07/15/17 04:42*	*07/17/17 19:35*	*10*
Terphenyl-d14 (Surr)	*53*		*36 - 113*	*07/15/17 04:42*	*07/17/17 19:35*	*10*
2,4,6-Tribromophenol (Surr)	*57*		*20 - 134*	*07/15/17 04:42*	*07/17/17 19:35*	*10*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.018	0.0096	mg/Kg	☼	07/15/17 04:45	07/16/17 02:09	1
PCB-1221	ND		0.018	0.0094	mg/Kg	☼	07/15/17 04:45	07/16/17 02:09	1
PCB-1232	ND		0.018	0.0072	mg/Kg	☼	07/15/17 04:45	07/16/17 02:09	1
PCB-1242	ND		0.018	0.014	mg/Kg	☼	07/15/17 04:45	07/16/17 02:09	1
PCB-1248	**0.48**		0.018	0.0086	mg/Kg	☼	07/15/17 04:45	07/16/17 02:09	1
PCB-1254	**0.30**		0.018	0.0079	mg/Kg	☼	07/15/17 04:45	07/16/17 02:09	1
PCB-1260	**0.089**		0.018	0.012	mg/Kg	☼	07/15/17 04:45	07/16/17 02:09	1
PCB-1262	ND		0.018	0.013	mg/Kg	☼	07/15/17 04:45	07/16/17 02:09	1
PCB-1268	ND		0.018	0.0055	mg/Kg	☼	07/15/17 04:45	07/16/17 02:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*71*		*23 - 150*	*07/15/17 04:45*	*07/16/17 02:09*	*1*

Client Sample ID: W5, S2, C 71217 — Lab Sample ID: 180-68140-27

Date Collected: 07/12/17 13:55 — **Matrix: Solid**
Date Received: 07/12/17 21:10 — **Percent Solids: 91.6**

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*80*		*23 - 150*	*07/15/17 04:45*	*07/16/17 02:09*	*1*
Tetrachloro-m-xylene (Surr)	*74*		*27 - 138*	*07/15/17 04:45*	*07/16/17 02:09*	*1*
Tetrachloro-m-xylene (Surr)	*76*		*27 - 138*	*07/15/17 04:45*	*07/16/17 02:09*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**4.9**		1.1	0.51	mg/Kg	☼	07/14/17 11:31	07/17/17 09:20	1
Barium	**48**		23	6.2	mg/Kg	☼	07/14/17 11:31	07/17/17 09:20	1
Beryllium	**0.29**	**J**	0.46	0.12	mg/Kg	☼	07/14/17 11:31	07/17/17 09:20	1
Cadmium	**0.14**	**J**	0.57	0.13	mg/Kg	☼	07/14/17 11:31	07/17/17 09:20	1
Chromium	**7.7**		0.57	0.15	mg/Kg	☼	07/14/17 11:31	07/17/17 09:20	1
Copper	**39**		2.9	0.88	mg/Kg	☼	07/14/17 11:31	07/17/17 09:20	1
Lead	**64**		1.1	0.38	mg/Kg	☼	07/14/17 11:31	07/17/17 09:20	1
Manganese	**300**		1.7	0.47	mg/Kg	☼	07/14/17 11:31	07/17/17 09:20	1
Nickel	**14**		4.6	1.0	mg/Kg	☼	07/14/17 11:31	07/17/17 09:20	1
Selenium	ND		1.1	0.45	mg/Kg	☼	07/14/17 11:31	07/17/17 09:20	1
Silver	ND		0.57	0.19	mg/Kg	☼	07/14/17 11:31	07/17/17 09:20	1
Zinc	**72**		2.3	1.2	mg/Kg	☼	07/14/17 11:31	07/17/17 09:20	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.11**		0.038	0.0085	mg/Kg	☼	07/18/17 14:49	07/19/17 12:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**8.4**		0.1	0.1	%			07/14/17 13:15	1
Percent Solids	**91.6**		0.1	0.1	%			07/14/17 13:15	1
Cyanide, Total	ND		0.48	0.15	mg/Kg	☼	07/18/17 10:56	07/18/17 14:25	1

Client Sample ID: W5, S1, A 71217 — Lab Sample ID: 180-68140-28

Date Collected: 07/12/17 14:15 — **Matrix: Solid**
Date Received: 07/12/17 21:10 — **Percent Solids: 92.0**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.018	0.0029	mg/Kg	☼	07/16/17 09:00	07/16/17 18:47	1
Benzene	ND		0.0046	0.0018	mg/Kg	☼	07/16/17 09:00	07/16/17 18:47	1
2-Butanone (MEK)	ND		0.0046	0.0027	mg/Kg	☼	07/16/17 09:00	07/16/17 18:47	1
Carbon tetrachloride	ND		0.0046	0.0030	mg/Kg	☼	07/16/17 09:00	07/16/17 18:47	1
Chlorobenzene	ND		0.0046	0.0014	mg/Kg	☼	07/16/17 09:00	07/16/17 18:47	1
Chloroform	ND		0.0046	0.0019	mg/Kg	☼	07/16/17 09:00	07/16/17 18:47	1
cis-1,2-Dichloroethene	ND		0.0046	0.0014	mg/Kg	☼	07/16/17 09:00	07/16/17 18:47	1
1,2-Dichlorobenzene	ND	*	0.0046	0.0037	mg/Kg	☼	07/16/17 09:00	07/16/17 18:47	1
1,3-Dichlorobenzene	ND	*	0.0046	0.0015	mg/Kg	☼	07/16/17 09:00	07/16/17 18:47	1
1,4-Dichlorobenzene	ND	*	0.0046	0.00093	mg/Kg	☼	07/16/17 09:00	07/16/17 18:47	1
1,1-Dichloroethane	ND		0.0046	0.0017	mg/Kg	☼	07/16/17 09:00	07/16/17 18:47	1
1,2-Dichloroethane	ND		0.0046	0.0013	mg/Kg	☼	07/16/17 09:00	07/16/17 18:47	1
1,1-Dichloroethene	ND		0.0046	0.0026	mg/Kg	☼	07/16/17 09:00	07/16/17 18:47	1
Ethylbenzene	ND		0.0046	0.0020	mg/Kg	☼	07/16/17 09:00	07/16/17 18:47	1
Methylene Chloride	ND		0.0046	0.0022	mg/Kg	☼	07/16/17 09:00	07/16/17 18:47	1

Client Sample ID: W5, S1, A 71217 — Lab Sample ID: 180-68140-28

Date Collected: 07/12/17 14:15 — **Matrix: Solid**
Date Received: 07/12/17 21:10 — **Percent Solids: 92.0**

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.0046	0.0034	mg/Kg	☼	07/16/17 09:00	07/16/17 18:47	1
n-Butylbenzene	ND	*	0.0046	0.0035	mg/Kg	☼	07/16/17 09:00	07/16/17 18:47	1
N-Propylbenzene	ND	*	0.0046	0.0019	mg/Kg	☼	07/16/17 09:00	07/16/17 18:47	1
sec-Butylbenzene	ND	*	0.0046	0.0022	mg/Kg	☼	07/16/17 09:00	07/16/17 18:47	1
tert-Butylbenzene	ND	*	0.0046	0.0017	mg/Kg	☼	07/16/17 09:00	07/16/17 18:47	1
Tetrachloroethene	ND		0.0046	0.0018	mg/Kg	☼	07/16/17 09:00	07/16/17 18:47	1
Toluene	ND		0.0046	0.0015	mg/Kg	☼	07/16/17 09:00	07/16/17 18:47	1
trans-1,2-Dichloroethene	ND		0.0046	0.0023	mg/Kg	☼	07/16/17 09:00	07/16/17 18:47	1
1,1,1-Trichloroethane	ND		0.0046	0.0023	mg/Kg	☼	07/16/17 09:00	07/16/17 18:47	1
Trichloroethene	ND		0.0046	0.0014	mg/Kg	☼	07/16/17 09:00	07/16/17 18:47	1
1,2,4-Trimethylbenzene	ND	*	0.0046	0.0012	mg/Kg	☼	07/16/17 09:00	07/16/17 18:47	1
1,3,5-Trimethylbenzene	ND	*	0.0046	0.0016	mg/Kg	☼	07/16/17 09:00	07/16/17 18:47	1
Vinyl chloride	ND		0.0046	0.0034	mg/Kg	☼	07/16/17 09:00	07/16/17 18:47	1
Xylenes, Total	ND		0.0092	0.0039	mg/Kg	☼	07/16/17 09:00	07/16/17 18:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*82*		*63 - 120*	*07/16/17 09:00*	*07/16/17 18:47*	*1*
Dibromofluoromethane (Surr)	*86*		*68 - 121*	*07/16/17 09:00*	*07/16/17 18:47*	*1*
1,2-Dichloroethane-d4 (Surr)	*76*		*52 - 124*	*07/16/17 09:00*	*07/16/17 18:47*	*1*
Toluene-d8 (Surr)	*126*		*72 - 127*	*07/16/17 09:00*	*07/16/17 18:47*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**8.0**		0.1	0.1	%			07/14/17 13:15	1
Percent Solids	**92.0**		0.1	0.1	%			07/14/17 13:15	1

Client Sample ID: W5, S1, B 71217 — Lab Sample ID: 180-68140-29

Date Collected: 07/12/17 14:20 — **Matrix: Solid**
Date Received: 07/12/17 21:10 — **Percent Solids: 94.8**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.019	0.0030	mg/Kg	☼	07/16/17 09:00	07/16/17 19:09	1
Benzene	ND		0.0048	0.0019	mg/Kg	☼	07/16/17 09:00	07/16/17 19:09	1
2-Butanone (MEK)	ND		0.0048	0.0028	mg/Kg	☼	07/16/17 09:00	07/16/17 19:09	1
Carbon tetrachloride	ND		0.0048	0.0032	mg/Kg	☼	07/16/17 09:00	07/16/17 19:09	1
Chlorobenzene	ND		0.0048	0.0015	mg/Kg	☼	07/16/17 09:00	07/16/17 19:09	1
Chloroform	ND		0.0048	0.0020	mg/Kg	☼	07/16/17 09:00	07/16/17 19:09	1
cis-1,2-Dichloroethene	ND		0.0048	0.0015	mg/Kg	☼	07/16/17 09:00	07/16/17 19:09	1
1,2-Dichlorobenzene	ND		0.0048	0.0038	mg/Kg	☼	07/16/17 09:00	07/16/17 19:09	1
1,3-Dichlorobenzene	ND		0.0048	0.0015	mg/Kg	☼	07/16/17 09:00	07/16/17 19:09	1
1,4-Dichlorobenzene	ND		0.0048	0.00097	mg/Kg	☼	07/16/17 09:00	07/16/17 19:09	1
1,1-Dichloroethane	ND		0.0048	0.0017	mg/Kg	☼	07/16/17 09:00	07/16/17 19:09	1
1,2-Dichloroethane	ND		0.0048	0.0014	mg/Kg	☼	07/16/17 09:00	07/16/17 19:09	1
1,1-Dichloroethene	ND		0.0048	0.0027	mg/Kg	☼	07/16/17 09:00	07/16/17 19:09	1
Ethylbenzene	ND		0.0048	0.0021	mg/Kg	☼	07/16/17 09:00	07/16/17 19:09	1
Methylene Chloride	ND		0.0048	0.0022	mg/Kg	☼	07/16/17 09:00	07/16/17 19:09	1
Methyl tert-butyl ether	ND		0.0048	0.0035	mg/Kg	☼	07/16/17 09:00	07/16/17 19:09	1
n-Butylbenzene	ND		0.0048	0.0036	mg/Kg	☼	07/16/17 09:00	07/16/17 19:09	1
N-Propylbenzene	ND		0.0048	0.0020	mg/Kg	☼	07/16/17 09:00	07/16/17 19:09	1

Client Sample ID: W5, S1, B 71217 — Lab Sample ID: 180-68140-29

Date Collected: 07/12/17 14:20 — **Matrix: Solid**
Date Received: 07/12/17 21:10 — **Percent Solids: 94.8**

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		0.0048	0.0023	mg/Kg	☼	07/16/17 09:00	07/16/17 19:09	1
tert-Butylbenzene	ND		0.0048	0.0017	mg/Kg	☼	07/16/17 09:00	07/16/17 19:09	1
Tetrachloroethene	ND		0.0048	0.0019	mg/Kg	☼	07/16/17 09:00	07/16/17 19:09	1
Toluene	ND		0.0048	0.0016	mg/Kg	☼	07/16/17 09:00	07/16/17 19:09	1
trans-1,2-Dichloroethene	ND		0.0048	0.0024	mg/Kg	☼	07/16/17 09:00	07/16/17 19:09	1
1,1,1-Trichloroethane	ND		0.0048	0.0024	mg/Kg	☼	07/16/17 09:00	07/16/17 19:09	1
Trichloroethene	ND		0.0048	0.0014	mg/Kg	☼	07/16/17 09:00	07/16/17 19:09	1
1,2,4-Trimethylbenzene	ND		0.0048	0.0013	mg/Kg	☼	07/16/17 09:00	07/16/17 19:09	1
1,3,5-Trimethylbenzene	ND		0.0048	0.0016	mg/Kg	☼	07/16/17 09:00	07/16/17 19:09	1
Vinyl chloride	ND		0.0048	0.0035	mg/Kg	☼	07/16/17 09:00	07/16/17 19:09	1
Xylenes, Total	ND		0.0095	0.0041	mg/Kg	☼	07/16/17 09:00	07/16/17 19:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*63 - 120*	*07/16/17 09:00*	*07/16/17 19:09*	*1*
Dibromofluoromethane (Surr)	*92*		*68 - 121*	*07/16/17 09:00*	*07/16/17 19:09*	*1*
1,2-Dichloroethane-d4 (Surr)	*84*		*52 - 124*	*07/16/17 09:00*	*07/16/17 19:09*	*1*
Toluene-d8 (Surr)	*123*		*72 - 127*	*07/16/17 09:00*	*07/16/17 19:09*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**5.2**		0.1	0.1	%			07/14/17 13:15	1
Percent Solids	**94.8**		0.1	0.1	%			07/14/17 13:15	1

Client Sample ID: W5, S1, C 71217 — Lab Sample ID: 180-68140-30

Date Collected: 07/12/17 14:25 — **Matrix: Solid**
Date Received: 07/12/17 21:10 — **Percent Solids: 93.1**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.011**	**J**	0.029	0.0096	mg/Kg	☼	07/15/17 04:42	07/17/17 20:03	4
Acenaphthylene	**0.21**		0.029	0.0097	mg/Kg	☼	07/15/17 04:42	07/17/17 20:03	4
Anthracene	**0.31**		0.029	0.010	mg/Kg	☼	07/15/17 04:42	07/17/17 20:03	4
Benzo[a]anthracene	**0.86**		0.029	0.011	mg/Kg	☼	07/15/17 04:42	07/17/17 20:03	4
Benzo[a]pyrene	**0.96**		0.029	0.012	mg/Kg	☼	07/15/17 04:42	07/17/17 20:03	4
Benzo[b]fluoranthene	**1.1**		0.029	0.012	mg/Kg	☼	07/15/17 04:42	07/17/17 20:03	4
Benzo[g,h,i]perylene	**0.98**		0.029	0.012	mg/Kg	☼	07/15/17 04:42	07/17/17 20:03	4
Benzo[k]fluoranthene	**0.40**		0.029	0.0098	mg/Kg	☼	07/15/17 04:42	07/17/17 20:03	4
Chrysene	**0.81**		0.029	0.011	mg/Kg	☼	07/15/17 04:42	07/17/17 20:03	4
Dibenz(a,h)anthracene	**0.23**		0.029	0.012	mg/Kg	☼	07/15/17 04:42	07/17/17 20:03	4
Dibenzofuran	**0.044**	**J**	0.14	0.011	mg/Kg	☼	07/15/17 04:42	07/17/17 20:03	4
2,4-Dinitrotoluene	ND		0.14	0.019	mg/Kg	☼	07/15/17 04:42	07/17/17 20:03	4
1,4-Dioxane	ND		0.28	0.021	mg/Kg	☼	07/15/17 04:42	07/17/17 20:03	4
Fluoranthene	**1.5**		0.029	0.011	mg/Kg	☼	07/15/17 04:42	07/17/17 20:03	4
Fluorene	**0.036**		0.029	0.010	mg/Kg	☼	07/15/17 04:42	07/17/17 20:03	4
Hexachlorobenzene	ND		0.029	0.011	mg/Kg	☼	07/15/17 04:42	07/17/17 20:03	4
Hexachlorobutadiene	ND		0.029	0.0090	mg/Kg	☼	07/15/17 04:42	07/17/17 20:03	4
Hexachloroethane	ND		0.14	0.010	mg/Kg	☼	07/15/17 04:42	07/17/17 20:03	4
Indeno[1,2,3-cd]pyrene	**0.86**		0.029	0.011	mg/Kg	☼	07/15/17 04:42	07/17/17 20:03	4
2-Methylphenol	ND		0.14	0.013	mg/Kg	☼	07/15/17 04:42	07/17/17 20:03	4
Methylphenol, 3 & 4	ND		0.14	0.013	mg/Kg	☼	07/15/17 04:42	07/17/17 20:03	4

Client Sample ID: W5, S1, C 71217 **Lab Sample ID: 180-68140-30**
Date Collected: 07/12/17 14:25 **Matrix: Solid**
Date Received: 07/12/17 21:10 **Percent Solids: 93.1**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**0.20**		0.029	0.010	mg/Kg	☼	07/15/17 04:42	07/17/17 20:03	4
Nitrobenzene	ND		0.28	0.011	mg/Kg	☼	07/15/17 04:42	07/17/17 20:03	4
Pentachlorophenol	ND		0.73	0.27	mg/Kg	☼	07/15/17 04:42	07/17/17 20:03	4
Phenanthrene	**0.52**		0.029	0.012	mg/Kg	☼	07/15/17 04:42	07/17/17 20:03	4
Phenol	ND		0.14	0.019	mg/Kg	☼	07/15/17 04:42	07/17/17 20:03	4
Pyrene	**1.1**		0.029	0.013	mg/Kg	☼	07/15/17 04:42	07/17/17 20:03	4
Pyridine	ND		0.14	0.014	mg/Kg	☼	07/15/17 04:42	07/17/17 20:03	4
2,4,5-Trichlorophenol	ND		0.14	0.014	mg/Kg	☼	07/15/17 04:42	07/17/17 20:03	4
2,4,6-Trichlorophenol	ND		0.14	0.012	mg/Kg	☼	07/15/17 04:42	07/17/17 20:03	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*59*		*42 - 100*	*07/15/17 04:42*	*07/17/17 20:03*	*4*
2-Fluorophenol (Surr)	*49*		*21 - 107*	*07/15/17 04:42*	*07/17/17 20:03*	*4*
Nitrobenzene-d5 (Surr)	*59*		*35 - 109*	*07/15/17 04:42*	*07/17/17 20:03*	*4*
Phenol-d5 (Surr)	*49*		*29 - 105*	*07/15/17 04:42*	*07/17/17 20:03*	*4*
Terphenyl-d14 (Surr)	*49*		*36 - 113*	*07/15/17 04:42*	*07/17/17 20:03*	*4*
2,4,6-Tribromophenol (Surr)	*58*		*20 - 134*	*07/15/17 04:42*	*07/17/17 20:03*	*4*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.018	0.0094	mg/Kg	☼	07/15/17 04:45	07/16/17 02:31	1
PCB-1221	ND		0.018	0.0092	mg/Kg	☼	07/15/17 04:45	07/16/17 02:31	1
PCB-1232	ND		0.018	0.0070	mg/Kg	☼	07/15/17 04:45	07/16/17 02:31	1
PCB-1242	ND		0.018	0.014	mg/Kg	☼	07/15/17 04:45	07/16/17 02:31	1
PCB-1248	**0.56**		0.018	0.0085	mg/Kg	☼	07/15/17 04:45	07/16/17 02:31	1
PCB-1254	**0.36**		0.018	0.0078	mg/Kg	☼	07/15/17 04:45	07/16/17 02:31	1
PCB-1260	**0.11**		0.018	0.012	mg/Kg	☼	07/15/17 04:45	07/16/17 02:31	1
PCB-1262	ND		0.018	0.013	mg/Kg	☼	07/15/17 04:45	07/16/17 02:31	1
PCB-1268	ND		0.018	0.0054	mg/Kg	☼	07/15/17 04:45	07/16/17 02:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*72*		*23 - 150*	*07/15/17 04:45*	*07/16/17 02:31*	*1*
DCB Decachlorobiphenyl (Surr)	*77*		*23 - 150*	*07/15/17 04:45*	*07/16/17 02:31*	*1*
Tetrachloro-m-xylene (Surr)	*73*		*27 - 138*	*07/15/17 04:45*	*07/16/17 02:31*	*1*
Tetrachloro-m-xylene (Surr)	*74*		*27 - 138*	*07/15/17 04:45*	*07/16/17 02:31*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**6.7**		1.1	0.48	mg/Kg	☼	07/14/17 11:31	07/17/17 09:25	1
Barium	**62**		22	5.8	mg/Kg	☼	07/14/17 11:31	07/17/17 09:25	1
Beryllium	**0.32**	**J**	0.43	0.11	mg/Kg	☼	07/14/17 11:31	07/17/17 09:25	1
Cadmium	**0.14**	**J**	0.54	0.12	mg/Kg	☼	07/14/17 11:31	07/17/17 09:25	1
Chromium	**8.7**		0.54	0.14	mg/Kg	☼	07/14/17 11:31	07/17/17 09:25	1
Copper	**27**		2.7	0.83	mg/Kg	☼	07/14/17 11:31	07/17/17 09:25	1
Lead	**29**		1.1	0.36	mg/Kg	☼	07/14/17 11:31	07/17/17 09:25	1
Manganese	**350**		1.6	0.44	mg/Kg	☼	07/14/17 11:31	07/17/17 09:25	1
Nickel	**16**		4.3	0.98	mg/Kg	☼	07/14/17 11:31	07/17/17 09:25	1
Selenium	ND		1.1	0.43	mg/Kg	☼	07/14/17 11:31	07/17/17 09:25	1
Silver	ND		0.54	0.18	mg/Kg	☼	07/14/17 11:31	07/17/17 09:25	1
Zinc	**65**		2.2	1.1	mg/Kg	☼	07/14/17 11:31	07/17/17 09:25	1

Client Sample ID: W5, S1, C 71217

Lab Sample ID: 180-68140-30
Date Collected: 07/12/17 14:25
Matrix: Solid
Date Received: 07/12/17 21:10
Percent Solids: 93.1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.072**		0.034	0.0076	mg/Kg	☼	07/18/17 14:49	07/19/17 12:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**6.9**		0.1	0.1	%			07/14/17 13:15	1
Percent Solids	**93.1**		0.1	0.1	%			07/14/17 13:15	1
Cyanide, Total	ND		0.50	0.15	mg/Kg	☼	07/18/17 10:56	07/18/17 14:26	1

Client Sample ID: DUP-6

Lab Sample ID: 180-68140-31
Date Collected: 07/12/17 00:00
Matrix: Solid
Date Received: 07/12/17 21:10
Percent Solids: 88.5

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.15	0.050	mg/Kg	☼	07/15/17 04:42	07/17/17 20:30	20
Acenaphthylene	**0.23**		0.15	0.050	mg/Kg	☼	07/15/17 04:42	07/17/17 20:30	20
Anthracene	**0.39**		0.15	0.055	mg/Kg	☼	07/15/17 04:42	07/17/17 20:30	20
Benzo[a]anthracene	**1.0**		0.15	0.059	mg/Kg	☼	07/15/17 04:42	07/17/17 20:30	20
Benzo[a]pyrene	**0.90**		0.15	0.062	mg/Kg	☼	07/15/17 04:42	07/17/17 20:30	20
Benzo[b]fluoranthene	**1.1**		0.15	0.064	mg/Kg	☼	07/15/17 04:42	07/17/17 20:30	20
Benzo[g,h,i]perylene	**0.81**		0.15	0.065	mg/Kg	☼	07/15/17 04:42	07/17/17 20:30	20
Benzo[k]fluoranthene	**0.37**		0.15	0.051	mg/Kg	☼	07/15/17 04:42	07/17/17 20:30	20
Chrysene	**0.91**		0.15	0.058	mg/Kg	☼	07/15/17 04:42	07/17/17 20:30	20
Dibenz(a,h)anthracene	**0.22**		0.15	0.062	mg/Kg	☼	07/15/17 04:42	07/17/17 20:30	20
Dibenzofuran	**0.067**	**J**	0.74	0.059	mg/Kg	☼	07/15/17 04:42	07/17/17 20:30	20
2,4-Dinitrotoluene	ND		0.74	0.098	mg/Kg	☼	07/15/17 04:42	07/17/17 20:30	20
1,4-Dioxane	ND		1.5	0.11	mg/Kg	☼	07/15/17 04:42	07/17/17 20:30	20
Fluoranthene	**2.0**		0.15	0.059	mg/Kg	☼	07/15/17 04:42	07/17/17 20:30	20
Fluorene	ND		0.15	0.053	mg/Kg	☼	07/15/17 04:42	07/17/17 20:30	20
Hexachlorobenzene	ND		0.15	0.060	mg/Kg	☼	07/15/17 04:42	07/17/17 20:30	20
Hexachlorobutadiene	ND		0.15	0.047	mg/Kg	☼	07/15/17 04:42	07/17/17 20:30	20
Hexachloroethane	ND		0.74	0.053	mg/Kg	☼	07/15/17 04:42	07/17/17 20:30	20
Indeno[1,2,3-cd]pyrene	**0.79**		0.15	0.057	mg/Kg	☼	07/15/17 04:42	07/17/17 20:30	20
2-Methylphenol	ND		0.74	0.066	mg/Kg	☼	07/15/17 04:42	07/17/17 20:30	20
Methylphenol, 3 & 4	ND		0.74	0.066	mg/Kg	☼	07/15/17 04:42	07/17/17 20:30	20
Naphthalene	**0.14**	**J**	0.15	0.053	mg/Kg	☼	07/15/17 04:42	07/17/17 20:30	20
Nitrobenzene	ND		1.5	0.057	mg/Kg	☼	07/15/17 04:42	07/17/17 20:30	20
Pentachlorophenol	ND		3.8	1.4	mg/Kg	☼	07/15/17 04:42	07/17/17 20:30	20
Phenanthrene	**0.96**		0.15	0.062	mg/Kg	☼	07/15/17 04:42	07/17/17 20:30	20
Phenol	ND		0.74	0.10	mg/Kg	☼	07/15/17 04:42	07/17/17 20:30	20
Pyrene	**1.4**		0.15	0.066	mg/Kg	☼	07/15/17 04:42	07/17/17 20:30	20
Pyridine	ND		0.74	0.071	mg/Kg	☼	07/15/17 04:42	07/17/17 20:30	20
2,4,5-Trichlorophenol	ND		0.74	0.071	mg/Kg	☼	07/15/17 04:42	07/17/17 20:30	20
2,4,6-Trichlorophenol	ND		0.74	0.065	mg/Kg	☼	07/15/17 04:42	07/17/17 20:30	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*56*		*42 - 100*	*07/15/17 04:42*	*07/17/17 20:30*	*20*
2-Fluorophenol (Surr)	*47*		*21 - 107*	*07/15/17 04:42*	*07/17/17 20:30*	*20*
Nitrobenzene-d5 (Surr)	*58*		*35 - 109*	*07/15/17 04:42*	*07/17/17 20:30*	*20*
Phenol-d5 (Surr)	*47*		*29 - 105*	*07/15/17 04:42*	*07/17/17 20:30*	*20*

Client Sample ID: DUP-6
Date Collected: 07/12/17 00:00
Date Received: 07/12/17 21:10

Lab Sample ID: 180-68140-31
Matrix: Solid
Percent Solids: 88.5

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14 (Surr)	*45*		*36 - 113*	*07/15/17 04:42*	*07/17/17 20:30*	*20*
2,4,6-Tribromophenol (Surr)	*44*		*20 - 134*	*07/15/17 04:42*	*07/17/17 20:30*	*20*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.018	0.0098	mg/Kg	☼	07/15/17 04:45	07/16/17 02:52	1
PCB-1221	ND		0.018	0.0096	mg/Kg	☼	07/15/17 04:45	07/16/17 02:52	1
PCB-1232	ND		0.018	0.0073	mg/Kg	☼	07/15/17 04:45	07/16/17 02:52	1
PCB-1242	ND		0.018	0.015	mg/Kg	☼	07/15/17 04:45	07/16/17 02:52	1
PCB-1248	**0.72**		0.018	0.0088	mg/Kg	☼	07/15/17 04:45	07/16/17 02:52	1
PCB-1254	**0.44**		0.018	0.0081	mg/Kg	☼	07/15/17 04:45	07/16/17 02:52	1
PCB-1260	**0.13**		0.018	0.012	mg/Kg	☼	07/15/17 04:45	07/16/17 02:52	1
PCB-1262	ND		0.018	0.013	mg/Kg	☼	07/15/17 04:45	07/16/17 02:52	1
PCB-1268	ND		0.018	0.0056	mg/Kg	☼	07/15/17 04:45	07/16/17 02:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*79*		*23 - 150*	*07/15/17 04:45*	*07/16/17 02:52*	*1*
DCB Decachlorobiphenyl (Surr)	*85*		*23 - 150*	*07/15/17 04:45*	*07/16/17 02:52*	*1*
Tetrachloro-m-xylene (Surr)	*77*		*27 - 138*	*07/15/17 04:45*	*07/16/17 02:52*	*1*
Tetrachloro-m-xylene (Surr)	*80*		*27 - 138*	*07/15/17 04:45*	*07/16/17 02:52*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**6.2**		1.2	0.52	mg/Kg	☼	07/14/17 11:31	07/17/17 09:30	1
Barium	**75**		24	6.3	mg/Kg	☼	07/14/17 11:31	07/17/17 09:30	1
Beryllium	**0.32**	**J**	0.47	0.12	mg/Kg	☼	07/14/17 11:31	07/17/17 09:30	1
Cadmium	ND		0.59	0.13	mg/Kg	☼	07/14/17 11:31	07/17/17 09:30	1
Chromium	**7.7**		0.59	0.15	mg/Kg	☼	07/14/17 11:31	07/17/17 09:30	1
Copper	**19**		2.9	0.90	mg/Kg	☼	07/14/17 11:31	07/17/17 09:30	1
Lead	**33**		1.2	0.39	mg/Kg	☼	07/14/17 11:31	07/17/17 09:30	1
Manganese	**350**		1.8	0.48	mg/Kg	☼	07/14/17 11:31	07/17/17 09:30	1
Nickel	**14**		4.7	1.1	mg/Kg	☼	07/14/17 11:31	07/17/17 09:30	1
Selenium	ND		1.2	0.47	mg/Kg	☼	07/14/17 11:31	07/17/17 09:30	1
Silver	ND		0.59	0.20	mg/Kg	☼	07/14/17 11:31	07/17/17 09:30	1
Zinc	**63**		2.4	1.2	mg/Kg	☼	07/14/17 11:31	07/17/17 09:30	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.29**		0.040	0.0089	mg/Kg	☼	07/18/17 14:49	07/19/17 12:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**11.5**		0.1	0.1	%			07/14/17 14:00	1
Percent Solids	**88.5**		0.1	0.1	%			07/14/17 14:00	1
Cyanide, Total	ND		0.49	0.15	mg/Kg	☼	07/18/17 10:56	07/18/17 14:28	1

Client Sample ID: DUP-7

Lab Sample ID: 180-68140-32
Date Collected: 07/12/17 00:00 **Matrix: Solid**
Date Received: 07/12/17 21:10 **Percent Solids: 92.5**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.016	0.0025	mg/Kg	☼	07/17/17 05:28	07/17/17 13:31	1
Benzene	ND		0.0039	0.0015	mg/Kg	☼	07/17/17 05:28	07/17/17 13:31	1
2-Butanone (MEK)	ND		0.0039	0.0023	mg/Kg	☼	07/17/17 05:28	07/17/17 13:31	1
Carbon tetrachloride	ND		0.0039	0.0026	mg/Kg	☼	07/17/17 05:28	07/17/17 13:31	1
Chlorobenzene	ND		0.0039	0.0012	mg/Kg	☼	07/17/17 05:28	07/17/17 13:31	1
Chloroform	ND		0.0039	0.0017	mg/Kg	☼	07/17/17 05:28	07/17/17 13:31	1
cis-1,2-Dichloroethene	ND		0.0039	0.0012	mg/Kg	☼	07/17/17 05:28	07/17/17 13:31	1
1,2-Dichlorobenzene	ND		0.0039	0.0032	mg/Kg	☼	07/17/17 05:28	07/17/17 13:31	1
1,3-Dichlorobenzene	ND		0.0039	0.0012	mg/Kg	☼	07/17/17 05:28	07/17/17 13:31	1
1,4-Dichlorobenzene	ND		0.0039	0.00080	mg/Kg	☼	07/17/17 05:28	07/17/17 13:31	1
1,1-Dichloroethane	ND		0.0039	0.0014	mg/Kg	☼	07/17/17 05:28	07/17/17 13:31	1
1,2-Dichloroethane	ND		0.0039	0.0011	mg/Kg	☼	07/17/17 05:28	07/17/17 13:31	1
1,1-Dichloroethene	ND		0.0039	0.0022	mg/Kg	☼	07/17/17 05:28	07/17/17 13:31	1
Ethylbenzene	ND		0.0039	0.0017	mg/Kg	☼	07/17/17 05:28	07/17/17 13:31	1
Methylene Chloride	ND		0.0039	0.0018	mg/Kg	☼	07/17/17 05:28	07/17/17 13:31	1
Methyl tert-butyl ether	ND		0.0039	0.0029	mg/Kg	☼	07/17/17 05:28	07/17/17 13:31	1
n-Butylbenzene	ND		0.0039	0.0030	mg/Kg	☼	07/17/17 05:28	07/17/17 13:31	1
N-Propylbenzene	ND		0.0039	0.0017	mg/Kg	☼	07/17/17 05:28	07/17/17 13:31	1
sec-Butylbenzene	ND		0.0039	0.0019	mg/Kg	☼	07/17/17 05:28	07/17/17 13:31	1
tert-Butylbenzene	ND		0.0039	0.0014	mg/Kg	☼	07/17/17 05:28	07/17/17 13:31	1
Tetrachloroethene	ND		0.0039	0.0016	mg/Kg	☼	07/17/17 05:28	07/17/17 13:31	1
Toluene	ND		0.0039	0.0013	mg/Kg	☼	07/17/17 05:28	07/17/17 13:31	1
trans-1,2-Dichloroethene	ND		0.0039	0.0020	mg/Kg	☼	07/17/17 05:28	07/17/17 13:31	1
1,1,1-Trichloroethane	ND		0.0039	0.0020	mg/Kg	☼	07/17/17 05:28	07/17/17 13:31	1
Trichloroethene	ND		0.0039	0.0012	mg/Kg	☼	07/17/17 05:28	07/17/17 13:31	1
1,2,4-Trimethylbenzene	ND		0.0039	0.0011	mg/Kg	☼	07/17/17 05:28	07/17/17 13:31	1
1,3,5-Trimethylbenzene	ND		0.0039	0.0013	mg/Kg	☼	07/17/17 05:28	07/17/17 13:31	1
Vinyl chloride	ND		0.0039	0.0029	mg/Kg	☼	07/17/17 05:28	07/17/17 13:31	1
Xylenes, Total	ND		0.0078	0.0034	mg/Kg	☼	07/17/17 05:28	07/17/17 13:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*63 - 120*	*07/17/17 05:28*	*07/17/17 13:31*	*1*
Dibromofluoromethane (Surr)	*91*		*68 - 121*	*07/17/17 05:28*	*07/17/17 13:31*	*1*
1,2-Dichloroethane-d4 (Surr)	*85*		*52 - 124*	*07/17/17 05:28*	*07/17/17 13:31*	*1*
Toluene-d8 (Surr)	*115*		*72 - 127*	*07/17/17 05:28*	*07/17/17 13:31*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**7.5**		0.1	0.1	%			07/14/17 14:00	1
Percent Solids	**92.5**		0.1	0.1	%			07/14/17 14:00	1

Client Sample ID: DUP-8

Lab Sample ID: 180-68140-33
Date Collected: 07/12/17 00:00 **Matrix: Solid**
Date Received: 07/12/17 21:10 **Percent Solids: 90.4**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.023	0.0036	mg/Kg	☼	07/17/17 05:28	07/17/17 13:54	1
Benzene	ND		0.0058	0.0023	mg/Kg	☼	07/17/17 05:28	07/17/17 13:54	1
2-Butanone (MEK)	ND		0.0058	0.0033	mg/Kg	☼	07/17/17 05:28	07/17/17 13:54	1

Client Sample ID: DUP-8 — Lab Sample ID: 180-68140-33

Date Collected: 07/12/17 00:00 — **Matrix: Solid**
Date Received: 07/12/17 21:10 — **Percent Solids: 90.4**

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	ND		0.0058	0.0038	mg/Kg	☼	07/17/17 05:28	07/17/17 13:54	1
Chlorobenzene	ND		0.0058	0.0018	mg/Kg	☼	07/17/17 05:28	07/17/17 13:54	1
Chloroform	ND		0.0058	0.0024	mg/Kg	☼	07/17/17 05:28	07/17/17 13:54	1
cis-1,2-Dichloroethene	ND		0.0058	0.0018	mg/Kg	☼	07/17/17 05:28	07/17/17 13:54	1
1,2-Dichlorobenzene	ND		0.0058	0.0046	mg/Kg	☼	07/17/17 05:28	07/17/17 13:54	1
1,3-Dichlorobenzene	ND		0.0058	0.0018	mg/Kg	☼	07/17/17 05:28	07/17/17 13:54	1
1,4-Dichlorobenzene	ND		0.0058	0.0012	mg/Kg	☼	07/17/17 05:28	07/17/17 13:54	1
1,1-Dichloroethane	ND		0.0058	0.0021	mg/Kg	☼	07/17/17 05:28	07/17/17 13:54	1
1,2-Dichloroethane	ND		0.0058	0.0017	mg/Kg	☼	07/17/17 05:28	07/17/17 13:54	1
1,1-Dichloroethene	ND		0.0058	0.0033	mg/Kg	☼	07/17/17 05:28	07/17/17 13:54	1
Ethylbenzene	ND		0.0058	0.0025	mg/Kg	☼	07/17/17 05:28	07/17/17 13:54	1
Methylene Chloride	ND		0.0058	0.0027	mg/Kg	☼	07/17/17 05:28	07/17/17 13:54	1
Methyl tert-butyl ether	ND		0.0058	0.0042	mg/Kg	☼	07/17/17 05:28	07/17/17 13:54	1
n-Butylbenzene	ND		0.0058	0.0044	mg/Kg	☼	07/17/17 05:28	07/17/17 13:54	1
N-Propylbenzene	ND		0.0058	0.0024	mg/Kg	☼	07/17/17 05:28	07/17/17 13:54	1
sec-Butylbenzene	ND		0.0058	0.0028	mg/Kg	☼	07/17/17 05:28	07/17/17 13:54	1
tert-Butylbenzene	ND		0.0058	0.0021	mg/Kg	☼	07/17/17 05:28	07/17/17 13:54	1
Tetrachloroethene	ND		0.0058	0.0023	mg/Kg	☼	07/17/17 05:28	07/17/17 13:54	1
Toluene	ND		0.0058	0.0019	mg/Kg	☼	07/17/17 05:28	07/17/17 13:54	1
trans-1,2-Dichloroethene	ND		0.0058	0.0029	mg/Kg	☼	07/17/17 05:28	07/17/17 13:54	1
1,1,1-Trichloroethane	ND		0.0058	0.0029	mg/Kg	☼	07/17/17 05:28	07/17/17 13:54	1
Trichloroethene	ND		0.0058	0.0017	mg/Kg	☼	07/17/17 05:28	07/17/17 13:54	1
1,2,4-Trimethylbenzene	ND		0.0058	0.0016	mg/Kg	☼	07/17/17 05:28	07/17/17 13:54	1
1,3,5-Trimethylbenzene	ND		0.0058	0.0020	mg/Kg	☼	07/17/17 05:28	07/17/17 13:54	1
Vinyl chloride	ND		0.0058	0.0042	mg/Kg	☼	07/17/17 05:28	07/17/17 13:54	1
Xylenes, Total	ND		0.012	0.0050	mg/Kg	☼	07/17/17 05:28	07/17/17 13:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*63 - 120*	*07/17/17 05:28*	*07/17/17 13:54*	*1*
Dibromofluoromethane (Surr)	*88*		*68 - 121*	*07/17/17 05:28*	*07/17/17 13:54*	*1*
1,2-Dichloroethane-d4 (Surr)	*81*		*52 - 124*	*07/17/17 05:28*	*07/17/17 13:54*	*1*
Toluene-d8 (Surr)	*109*		*72 - 127*	*07/17/17 05:28*	*07/17/17 13:54*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.6**		0.1	0.1	%			07/14/17 14:00	1
Percent Solids	**90.4**		0.1	0.1	%			07/14/17 14:00	1

Client Sample ID: TRIP BLANK 1 — Lab Sample ID: 180-68140-34

Date Collected: 07/12/17 00:00 — **Matrix: Water**
Date Received: 07/12/17 21:10

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**4.0**	**J**	5.0	3.1	ug/L			07/19/17 12:28	1
Benzene	ND		1.0	0.18	ug/L			07/19/17 12:28	1
2-Butanone (MEK)	ND		5.0	2.6	ug/L			07/19/17 12:28	1
Carbon tetrachloride	ND		1.0	0.56	ug/L			07/19/17 12:28	1
Chlorobenzene	ND		1.0	0.15	ug/L			07/19/17 12:28	1
Chloroform	ND		1.0	0.27	ug/L			07/19/17 12:28	1

Client Sample ID: TRIP BLANK 1 — Lab Sample ID: 180-68140-34

Date Collected: 07/12/17 00:00 — **Matrix: Water**
Date Received: 07/12/17 21:10

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			07/19/17 12:28	1
1,2-Dichlorobenzene	ND		1.0	0.23	ug/L			07/19/17 12:28	1
1,3-Dichlorobenzene	ND		1.0	0.21	ug/L			07/19/17 12:28	1
1,4-Dichlorobenzene	ND		1.0	0.24	ug/L			07/19/17 12:28	1
1,1-Dichloroethane	ND		1.0	0.34	ug/L			07/19/17 12:28	1
1,2-Dichloroethane	ND		1.0	0.24	ug/L			07/19/17 12:28	1
1,1-Dichloroethene	ND		1.0	0.32	ug/L			07/19/17 12:28	1
Ethylbenzene	ND		1.0	0.25	ug/L			07/19/17 12:28	1
Methylene Chloride	ND		1.0	0.94	ug/L			07/19/17 12:28	1
Methyl tert-butyl ether	ND		1.0	0.20	ug/L			07/19/17 12:28	1
n-Butylbenzene	ND		1.0	0.22	ug/L			07/19/17 12:28	1
N-Propylbenzene	ND		1.0	0.20	ug/L			07/19/17 12:28	1
sec-Butylbenzene	ND		1.0	0.22	ug/L			07/19/17 12:28	1
tert-Butylbenzene	ND		1.0	0.17	ug/L			07/19/17 12:28	1
Tetrachloroethene	ND		1.0	0.24	ug/L			07/19/17 12:28	1
Toluene	ND		1.0	0.16	ug/L			07/19/17 12:28	1
trans-1,2-Dichloroethene	ND		1.0	0.20	ug/L			07/19/17 12:28	1
1,1,1-Trichloroethane	ND		1.0	0.27	ug/L			07/19/17 12:28	1
Trichloroethene	ND		1.0	0.20	ug/L			07/19/17 12:28	1
1,2,4-Trimethylbenzene	ND		1.0	0.18	ug/L			07/19/17 12:28	1
1,3,5-Trimethylbenzene	ND		1.0	0.17	ug/L			07/19/17 12:28	1
Vinyl chloride	ND		1.0	0.17	ug/L			07/19/17 12:28	1
Xylenes, Total	ND		2.0	0.27	ug/L			07/19/17 12:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*72 - 120*		*07/19/17 12:28*	*1*
Dibromofluoromethane (Surr)	*91*		*77 - 127*		*07/19/17 12:28*	*1*
1,2-Dichloroethane-d4 (Surr)	*76*		*72 - 134*		*07/19/17 12:28*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*		*07/19/17 12:28*	*1*

Client Sample ID: TRIP BLANK 2 — Lab Sample ID: 180-68140-35

Date Collected: 07/12/17 00:00 — **Matrix: Water**
Date Received: 07/12/17 21:10

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**4.8**	**J**	5.0	3.1	ug/L			07/19/17 12:52	1
Benzene	ND		1.0	0.18	ug/L			07/19/17 12:52	1
2-Butanone (MEK)	ND		5.0	2.6	ug/L			07/19/17 12:52	1
Carbon tetrachloride	ND		1.0	0.56	ug/L			07/19/17 12:52	1
Chlorobenzene	ND		1.0	0.15	ug/L			07/19/17 12:52	1
Chloroform	ND		1.0	0.27	ug/L			07/19/17 12:52	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			07/19/17 12:52	1
1,2-Dichlorobenzene	ND		1.0	0.23	ug/L			07/19/17 12:52	1
1,3-Dichlorobenzene	ND		1.0	0.21	ug/L			07/19/17 12:52	1
1,4-Dichlorobenzene	ND		1.0	0.24	ug/L			07/19/17 12:52	1
1,1-Dichloroethane	ND		1.0	0.34	ug/L			07/19/17 12:52	1
1,2-Dichloroethane	ND		1.0	0.24	ug/L			07/19/17 12:52	1
1,1-Dichloroethene	ND		1.0	0.32	ug/L			07/19/17 12:52	1
Ethylbenzene	ND		1.0	0.25	ug/L			07/19/17 12:52	1

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68140-1

Client Sample ID: TRIP BLANK 2
Date Collected: 07/12/17 00:00
Date Received: 07/12/17 21:10

Lab Sample ID: 180-68140-35
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		1.0	0.94	ug/L			07/19/17 12:52	1
Methyl tert-butyl ether	ND		1.0	0.20	ug/L			07/19/17 12:52	1
n-Butylbenzene	ND		1.0	0.22	ug/L			07/19/17 12:52	1
N-Propylbenzene	ND		1.0	0.20	ug/L			07/19/17 12:52	1
sec-Butylbenzene	ND		1.0	0.22	ug/L			07/19/17 12:52	1
tert-Butylbenzene	ND		1.0	0.17	ug/L			07/19/17 12:52	1
Tetrachloroethene	ND		1.0	0.24	ug/L			07/19/17 12:52	1
Toluene	ND		1.0	0.16	ug/L			07/19/17 12:52	1
trans-1,2-Dichloroethene	ND		1.0	0.20	ug/L			07/19/17 12:52	1
1,1,1-Trichloroethane	ND		1.0	0.27	ug/L			07/19/17 12:52	1
Trichloroethene	ND		1.0	0.20	ug/L			07/19/17 12:52	1
1,2,4-Trimethylbenzene	ND		1.0	0.18	ug/L			07/19/17 12:52	1
1,3,5-Trimethylbenzene	ND		1.0	0.17	ug/L			07/19/17 12:52	1
Vinyl chloride	ND		1.0	0.17	ug/L			07/19/17 12:52	1
Xylenes, Total	ND		2.0	0.27	ug/L			07/19/17 12:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*72 - 120*		*07/19/17 12:52*	*1*
Dibromofluoromethane (Surr)	*92*		*77 - 127*		*07/19/17 12:52*	*1*
1,2-Dichloroethane-d4 (Surr)	*76*		*72 - 134*		*07/19/17 12:52*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*07/19/17 12:52*	*1*

Method: 8260C - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 180-217455/5
Matrix: Water
Analysis Batch: 217455

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		5.0	3.1	ug/L			07/19/17 12:04	1
Benzene	ND		1.0	0.18	ug/L			07/19/17 12:04	1
2-Butanone (MEK)	ND		5.0	2.6	ug/L			07/19/17 12:04	1
Carbon tetrachloride	ND		1.0	0.56	ug/L			07/19/17 12:04	1
Chlorobenzene	ND		1.0	0.15	ug/L			07/19/17 12:04	1
Chloroform	ND		1.0	0.27	ug/L			07/19/17 12:04	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			07/19/17 12:04	1
1,2-Dichlorobenzene	ND		1.0	0.23	ug/L			07/19/17 12:04	1
1,3-Dichlorobenzene	ND		1.0	0.21	ug/L			07/19/17 12:04	1
1,4-Dichlorobenzene	ND		1.0	0.24	ug/L			07/19/17 12:04	1
1,1-Dichloroethane	ND		1.0	0.34	ug/L			07/19/17 12:04	1
1,2-Dichloroethane	ND		1.0	0.24	ug/L			07/19/17 12:04	1
1,1-Dichloroethene	ND		1.0	0.32	ug/L			07/19/17 12:04	1
Ethylbenzene	ND		1.0	0.25	ug/L			07/19/17 12:04	1
Methylene Chloride	ND		1.0	0.94	ug/L			07/19/17 12:04	1
Methyl tert-butyl ether	ND		1.0	0.20	ug/L			07/19/17 12:04	1
n-Butylbenzene	ND		1.0	0.22	ug/L			07/19/17 12:04	1
N-Propylbenzene	ND		1.0	0.20	ug/L			07/19/17 12:04	1
sec-Butylbenzene	ND		1.0	0.22	ug/L			07/19/17 12:04	1
tert-Butylbenzene	ND		1.0	0.17	ug/L			07/19/17 12:04	1
Tetrachloroethene	ND		1.0	0.24	ug/L			07/19/17 12:04	1
Toluene	ND		1.0	0.16	ug/L			07/19/17 12:04	1
trans-1,2-Dichloroethene	ND		1.0	0.20	ug/L			07/19/17 12:04	1
1,1,1-Trichloroethane	ND		1.0	0.27	ug/L			07/19/17 12:04	1
Trichloroethene	ND		1.0	0.20	ug/L			07/19/17 12:04	1
1,2,4-Trimethylbenzene	ND		1.0	0.18	ug/L			07/19/17 12:04	1
1,3,5-Trimethylbenzene	ND		1.0	0.17	ug/L			07/19/17 12:04	1
Vinyl chloride	ND		1.0	0.17	ug/L			07/19/17 12:04	1
Xylenes, Total	ND		2.0	0.27	ug/L			07/19/17 12:04	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*72 - 120*		*07/19/17 12:04*	*1*
Dibromofluoromethane (Surr)	*93*		*77 - 127*		*07/19/17 12:04*	*1*
1,2-Dichloroethane-d4 (Surr)	*79*		*72 - 134*		*07/19/17 12:04*	*1*
Toluene-d8 (Surr)	*93*		*80 - 120*		*07/19/17 12:04*	*1*

Lab Sample ID: LCS 180-217455/3
Matrix: Water
Analysis Batch: 217455

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	20.0	16.4		ug/L		82	10 - 150
Benzene	10.0	9.04		ug/L		90	80 - 121
2-Butanone (MEK)	20.0	16.0		ug/L		80	41 - 150
Carbon tetrachloride	10.0	11.5		ug/L		115	59 - 145
Chlorobenzene	10.0	8.62		ug/L		86	80 - 120
Chloroform	10.0	9.01		ug/L		90	78 - 122
cis-1,2-Dichloroethene	10.0	9.30		ug/L		93	80 - 120

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 180-217455/3
Matrix: Water
Analysis Batch: 217455

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichlorobenzene	10.0	8.18		ug/L		82	80 - 120
1,3-Dichlorobenzene	10.0	8.10		ug/L		81	80 - 120
1,4-Dichlorobenzene	10.0	8.17		ug/L		82	80 - 120
1,1-Dichloroethane	10.0	8.66		ug/L		87	76 - 126
1,2-Dichloroethane	10.0	7.52		ug/L		75	72 - 126
1,1-Dichloroethene	10.0	8.93		ug/L		89	71 - 122
Ethylbenzene	10.0	8.85		ug/L		89	80 - 123
Methylene Chloride	10.0	8.57		ug/L		86	71 - 129
Methyl tert-butyl ether	10.0	8.42		ug/L		84	68 - 124
n-Butylbenzene	10.0	8.83		ug/L		88	75 - 120
N-Propylbenzene	10.0	7.80		ug/L		78	78 - 121
sec-Butylbenzene	10.0	8.56		ug/L		86	80 - 121
tert-Butylbenzene	10.0	8.09		ug/L		81	79 - 120
Tetrachloroethene	10.0	8.91		ug/L		89	80 - 122
Toluene	10.0	9.03		ug/L		90	80 - 125
trans-1,2-Dichloroethene	10.0	8.96		ug/L		90	80 - 121
1,1,1-Trichloroethane	10.0	10.3		ug/L		103	57 - 128
Trichloroethene	10.0	8.66		ug/L		87	79 - 120
1,2,4-Trimethylbenzene	10.0	8.18		ug/L		82	80 - 120
1,3,5-Trimethylbenzene	10.0	8.35		ug/L		84	80 - 122
Vinyl chloride	10.0	10.7		ug/L		107	61 - 138
Xylenes, Total	20.0	17.7		ug/L		88	80 - 123

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*94*		*72 - 120*
Dibromofluoromethane (Surr)	*93*		*77 - 127*
1,2-Dichloroethane-d4 (Surr)	*76*		*72 - 134*
Toluene-d8 (Surr)	*94*		*80 - 120*

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 180-217186/9
Matrix: Solid
Analysis Batch: 217186

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.020	0.0032	mg/Kg			07/16/17 11:34	1
Benzene	ND		0.0050	0.0020	mg/Kg			07/16/17 11:34	1
2-Butanone (MEK)	ND		0.0050	0.0029	mg/Kg			07/16/17 11:34	1
Carbon tetrachloride	ND		0.0050	0.0033	mg/Kg			07/16/17 11:34	1
Chlorobenzene	ND		0.0050	0.0016	mg/Kg			07/16/17 11:34	1
Chloroform	ND		0.0050	0.0021	mg/Kg			07/16/17 11:34	1
cis-1,2-Dichloroethene	ND		0.0050	0.0016	mg/Kg			07/16/17 11:34	1
1,2-Dichlorobenzene	ND		0.0050	0.0040	mg/Kg			07/16/17 11:34	1
1,3-Dichlorobenzene	ND		0.0050	0.0016	mg/Kg			07/16/17 11:34	1
1,4-Dichlorobenzene	ND		0.0050	0.0010	mg/Kg			07/16/17 11:34	1
1,1-Dichloroethane	ND		0.0050	0.0018	mg/Kg			07/16/17 11:34	1
1,2-Dichloroethane	ND		0.0050	0.0015	mg/Kg			07/16/17 11:34	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 180-217186/9
Matrix: Solid
Analysis Batch: 217186

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		0.0050	0.0029	mg/Kg			07/16/17 11:34	1
Ethylbenzene	ND		0.0050	0.0022	mg/Kg			07/16/17 11:34	1
Methylene Chloride	ND		0.0050	0.0024	mg/Kg			07/16/17 11:34	1
Methyl tert-butyl ether	ND		0.0050	0.0037	mg/Kg			07/16/17 11:34	1
n-Butylbenzene	ND		0.0050	0.0038	mg/Kg			07/16/17 11:34	1
N-Propylbenzene	ND		0.0050	0.0021	mg/Kg			07/16/17 11:34	1
sec-Butylbenzene	ND		0.0050	0.0024	mg/Kg			07/16/17 11:34	1
tert-Butylbenzene	ND		0.0050	0.0018	mg/Kg			07/16/17 11:34	1
Tetrachloroethene	ND		0.0050	0.0020	mg/Kg			07/16/17 11:34	1
Toluene	ND		0.0050	0.0017	mg/Kg			07/16/17 11:34	1
trans-1,2-Dichloroethene	ND		0.0050	0.0025	mg/Kg			07/16/17 11:34	1
1,1,1-Trichloroethane	ND		0.0050	0.0025	mg/Kg			07/16/17 11:34	1
Trichloroethene	ND		0.0050	0.0015	mg/Kg			07/16/17 11:34	1
1,2,4-Trimethylbenzene	ND		0.0050	0.0013	mg/Kg			07/16/17 11:34	1
1,3,5-Trimethylbenzene	ND		0.0050	0.0017	mg/Kg			07/16/17 11:34	1
Vinyl chloride	ND		0.0050	0.0037	mg/Kg			07/16/17 11:34	1
Xylenes, Total	ND		0.010	0.0043	mg/Kg			07/16/17 11:34	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*63 - 120*		*07/16/17 11:34*	*1*
Dibromofluoromethane (Surr)	*95*		*68 - 121*		*07/16/17 11:34*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*52 - 124*		*07/16/17 11:34*	*1*
Toluene-d8 (Surr)	*110*		*72 - 127*		*07/16/17 11:34*	*1*

Lab Sample ID: LCS 180-217186/4
Matrix: Solid
Analysis Batch: 217186

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0400	0.0423		mg/Kg		106	20 - 150
Benzene	0.0400	0.0398		mg/Kg		100	77 - 120
2-Butanone (MEK)	0.0400	0.0368		mg/Kg		92	35 - 149
Carbon tetrachloride	0.0400	0.0365		mg/Kg		91	69 - 122
Chlorobenzene	0.0400	0.0379		mg/Kg		95	79 - 120
Chloroform	0.0400	0.0383		mg/Kg		96	72 - 120
cis-1,2-Dichloroethene	0.0400	0.0378		mg/Kg		94	80 - 118
1,2-Dichlorobenzene	0.0400	0.0386		mg/Kg		96	71 - 124
1,3-Dichlorobenzene	0.0400	0.0389		mg/Kg		97	75 - 118
1,4-Dichlorobenzene	0.0400	0.0387		mg/Kg		97	77 - 116
1,1-Dichloroethane	0.0400	0.0415		mg/Kg		104	66 - 124
1,2-Dichloroethane	0.0400	0.0367		mg/Kg		92	61 - 127
1,1-Dichloroethene	0.0400	0.0378		mg/Kg		95	59 - 129
Ethylbenzene	0.0400	0.0387		mg/Kg		97	78 - 125
Methylene Chloride	0.0400	0.0355		mg/Kg		89	58 - 127
Methyl tert-butyl ether	0.0400	0.0366		mg/Kg		92	48 - 132
n-Butylbenzene	0.0400	0.0429		mg/Kg		107	59 - 145
N-Propylbenzene	0.0400	0.0385		mg/Kg		96	80 - 120
sec-Butylbenzene	0.0400	0.0420		mg/Kg		105	70 - 130

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 180-217186/4
Matrix: Solid
Analysis Batch: 217186

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
tert-Butylbenzene			0.0400	0.0399		mg/Kg		100	74 - 133		
Tetrachloroethene			0.0400	0.0393		mg/Kg		98	78 - 129		
Toluene			0.0400	0.0414		mg/Kg		104	78 - 124		
trans-1,2-Dichloroethene			0.0400	0.0386		mg/Kg		97	77 - 121		
1,1,1-Trichloroethane			0.0400	0.0403		mg/Kg		101	67 - 126		
Trichloroethene			0.0400	0.0381		mg/Kg		95	76 - 119		
1,2,4-Trimethylbenzene			0.0400	0.0407		mg/Kg		102	80 - 121		
1,3,5-Trimethylbenzene			0.0400	0.0411		mg/Kg		103	68 - 133		
Vinyl chloride			0.0400	0.0482		mg/Kg		121	63 - 124		
Xylenes, Total			0.0800	0.0771		mg/Kg		96	83 - 126		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*63 - 120*
Dibromofluoromethane (Surr)	*95*		*68 - 121*
1,2-Dichloroethane-d4 (Surr)	*94*		*52 - 124*
Toluene-d8 (Surr)	*106*		*72 - 127*

Lab Sample ID: LCSD 180-217186/5
Matrix: Solid
Analysis Batch: 217186

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone			0.0400	0.0423		mg/Kg		106	20 - 150	0	40
Benzene			0.0400	0.0396		mg/Kg		99	77 - 120	1	20
2-Butanone (MEK)			0.0400	0.0414		mg/Kg		103	35 - 149	12	36
Carbon tetrachloride			0.0400	0.0359		mg/Kg		90	69 - 122	2	22
Chlorobenzene			0.0400	0.0384		mg/Kg		96	79 - 120	1	20
Chloroform			0.0400	0.0379		mg/Kg		95	72 - 120	1	25
cis-1,2-Dichloroethene			0.0400	0.0379		mg/Kg		95	80 - 118	0	20
1,2-Dichlorobenzene			0.0400	0.0389		mg/Kg		97	71 - 124	1	22
1,3-Dichlorobenzene			0.0400	0.0389		mg/Kg		97	75 - 118	0	20
1,4-Dichlorobenzene			0.0400	0.0388		mg/Kg		97	77 - 116	0	20
1,1-Dichloroethane			0.0400	0.0417		mg/Kg		104	66 - 124	1	23
1,2-Dichloroethane			0.0400	0.0375		mg/Kg		94	61 - 127	2	23
1,1-Dichloroethene			0.0400	0.0392		mg/Kg		98	59 - 129	4	25
Ethylbenzene			0.0400	0.0381		mg/Kg		95	78 - 125	1	21
Methylene Chloride			0.0400	0.0361		mg/Kg		90	58 - 127	2	28
Methyl tert-butyl ether			0.0400	0.0373		mg/Kg		93	48 - 132	2	36
n-Butylbenzene			0.0400	0.0427		mg/Kg		107	59 - 145	0	24
N-Propylbenzene			0.0400	0.0384		mg/Kg		96	80 - 120	0	20
sec-Butylbenzene			0.0400	0.0418		mg/Kg		104	70 - 130	1	21
tert-Butylbenzene			0.0400	0.0395		mg/Kg		99	74 - 133	1	22
Tetrachloroethene			0.0400	0.0394		mg/Kg		98	78 - 129	0	20
Toluene			0.0400	0.0411		mg/Kg		103	78 - 124	1	21
trans-1,2-Dichloroethene			0.0400	0.0389		mg/Kg		97	77 - 121	1	20
1,1,1-Trichloroethane			0.0400	0.0389		mg/Kg		97	67 - 126	4	31
Trichloroethene			0.0400	0.0381		mg/Kg		95	76 - 119	0	21
1,2,4-Trimethylbenzene			0.0400	0.0405		mg/Kg		101	80 - 121	1	20

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 180-217186/5
Matrix: Solid
Analysis Batch: 217186

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,3,5-Trimethylbenzene			0.0400	0.0406		mg/Kg		102	68 - 133	1	21
Vinyl chloride			0.0400	0.0486		mg/Kg		122	63 - 124	1	27
Xylenes, Total			0.0800	0.0769		mg/Kg		96	83 - 126	0	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*105*		*63 - 120*
Dibromofluoromethane (Surr)	*102*		*68 - 121*
1,2-Dichloroethane-d4 (Surr)	*100*		*52 - 124*
Toluene-d8 (Surr)	*111*		*72 - 127*

Lab Sample ID: MB 180-217209/11
Matrix: Solid
Analysis Batch: 217209

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.020	0.0032	mg/Kg			07/17/17 10:30	1
Benzene	ND		0.0050	0.0020	mg/Kg			07/17/17 10:30	1
2-Butanone (MEK)	ND		0.0050	0.0029	mg/Kg			07/17/17 10:30	1
Carbon tetrachloride	ND		0.0050	0.0033	mg/Kg			07/17/17 10:30	1
Chlorobenzene	ND		0.0050	0.0016	mg/Kg			07/17/17 10:30	1
Chloroform	ND		0.0050	0.0021	mg/Kg			07/17/17 10:30	1
cis-1,2-Dichloroethene	ND		0.0050	0.0016	mg/Kg			07/17/17 10:30	1
1,2-Dichlorobenzene	ND		0.0050	0.0040	mg/Kg			07/17/17 10:30	1
1,3-Dichlorobenzene	ND		0.0050	0.0016	mg/Kg			07/17/17 10:30	1
1,4-Dichlorobenzene	ND		0.0050	0.0010	mg/Kg			07/17/17 10:30	1
1,1-Dichloroethane	ND		0.0050	0.0018	mg/Kg			07/17/17 10:30	1
1,2-Dichloroethane	ND		0.0050	0.0015	mg/Kg			07/17/17 10:30	1
1,1-Dichloroethene	ND		0.0050	0.0029	mg/Kg			07/17/17 10:30	1
Ethylbenzene	ND		0.0050	0.0022	mg/Kg			07/17/17 10:30	1
Methylene Chloride	ND		0.0050	0.0024	mg/Kg			07/17/17 10:30	1
Methyl tert-butyl ether	ND		0.0050	0.0037	mg/Kg			07/17/17 10:30	1
n-Butylbenzene	ND		0.0050	0.0038	mg/Kg			07/17/17 10:30	1
N-Propylbenzene	ND		0.0050	0.0021	mg/Kg			07/17/17 10:30	1
sec-Butylbenzene	ND		0.0050	0.0024	mg/Kg			07/17/17 10:30	1
tert-Butylbenzene	ND		0.0050	0.0018	mg/Kg			07/17/17 10:30	1
Tetrachloroethene	ND		0.0050	0.0020	mg/Kg			07/17/17 10:30	1
Toluene	ND		0.0050	0.0017	mg/Kg			07/17/17 10:30	1
trans-1,2-Dichloroethene	ND		0.0050	0.0025	mg/Kg			07/17/17 10:30	1
1,1,1-Trichloroethane	ND		0.0050	0.0025	mg/Kg			07/17/17 10:30	1
Trichloroethene	ND		0.0050	0.0015	mg/Kg			07/17/17 10:30	1
1,2,4-Trimethylbenzene	ND		0.0050	0.0013	mg/Kg			07/17/17 10:30	1
1,3,5-Trimethylbenzene	ND		0.0050	0.0017	mg/Kg			07/17/17 10:30	1
Vinyl chloride	ND		0.0050	0.0037	mg/Kg			07/17/17 10:30	1
Xylenes, Total	ND		0.010	0.0043	mg/Kg			07/17/17 10:30	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*63 - 120*		*07/17/17 10:30*	*1*

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 180-217209/11
Matrix: Solid
Analysis Batch: 217209

Client Sample ID: Method Blank
Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	*91*		*68 - 121*		*07/17/17 10:30*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*52 - 124*		*07/17/17 10:30*	*1*
Toluene-d8 (Surr)	*106*		*72 - 127*		*07/17/17 10:30*	*1*

Lab Sample ID: LCS 180-217209/4
Matrix: Solid
Analysis Batch: 217209

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0400	0.0410		mg/Kg		103	20 - 150
Benzene	0.0400	0.0372		mg/Kg		93	77 - 120
2-Butanone (MEK)	0.0400	0.0368		mg/Kg		92	35 - 149
Carbon tetrachloride	0.0400	0.0320		mg/Kg		80	69 - 122
Chlorobenzene	0.0400	0.0361		mg/Kg		90	79 - 120
Chloroform	0.0400	0.0353		mg/Kg		88	72 - 120
cis-1,2-Dichloroethene	0.0400	0.0351		mg/Kg		88	80 - 118
1,2-Dichlorobenzene	0.0400	0.0369		mg/Kg		92	71 - 124
1,3-Dichlorobenzene	0.0400	0.0365		mg/Kg		91	75 - 118
1,4-Dichlorobenzene	0.0400	0.0364		mg/Kg		91	77 - 116
1,1-Dichloroethane	0.0400	0.0384		mg/Kg		96	66 - 124
1,2-Dichloroethane	0.0400	0.0348		mg/Kg		87	61 - 127
1,1-Dichloroethene	0.0400	0.0355		mg/Kg		89	59 - 129
Ethylbenzene	0.0400	0.0356		mg/Kg		89	78 - 125
Methylene Chloride	0.0400	0.0330		mg/Kg		82	58 - 127
Methyl tert-butyl ether	0.0400	0.0339		mg/Kg		85	48 - 132
n-Butylbenzene	0.0400	0.0398		mg/Kg		100	59 - 145
N-Propylbenzene	0.0400	0.0360		mg/Kg		90	80 - 120
sec-Butylbenzene	0.0400	0.0387		mg/Kg		97	70 - 130
tert-Butylbenzene	0.0400	0.0375		mg/Kg		94	74 - 133
Tetrachloroethene	0.0400	0.0369		mg/Kg		92	78 - 129
Toluene	0.0400	0.0392		mg/Kg		98	78 - 124
trans-1,2-Dichloroethene	0.0400	0.0360		mg/Kg		90	77 - 121
1,1,1-Trichloroethane	0.0400	0.0347		mg/Kg		87	67 - 126
Trichloroethene	0.0400	0.0350		mg/Kg		87	76 - 119
1,2,4-Trimethylbenzene	0.0400	0.0380		mg/Kg		95	80 - 121
1,3,5-Trimethylbenzene	0.0400	0.0380		mg/Kg		95	68 - 133
Vinyl chloride	0.0400	0.0455		mg/Kg		114	63 - 124
Xylenes, Total	0.0800	0.0729		mg/Kg		91	83 - 126

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	*97*		*63 - 120*
Dibromofluoromethane (Surr)	*93*		*68 - 121*
1,2-Dichloroethane-d4 (Surr)	*93*		*52 - 124*
Toluene-d8 (Surr)	*105*		*72 - 127*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Lab Sample ID: MB 180-217139/1-A
Matrix: Solid
Analysis Batch: 217155

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 217139

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0067	0.0022	mg/Kg		07/15/17 04:42	07/15/17 10:59	1
Acenaphthylene	ND		0.0067	0.0023	mg/Kg		07/15/17 04:42	07/15/17 10:59	1
Anthracene	ND		0.0067	0.0025	mg/Kg		07/15/17 04:42	07/15/17 10:59	1
Benzo[a]anthracene	ND		0.0067	0.0026	mg/Kg		07/15/17 04:42	07/15/17 10:59	1
Benzo[a]pyrene	ND		0.0067	0.0028	mg/Kg		07/15/17 04:42	07/15/17 10:59	1
Benzo[b]fluoranthene	ND		0.0067	0.0029	mg/Kg		07/15/17 04:42	07/15/17 10:59	1
Benzo[g,h,i]perylene	ND		0.0067	0.0029	mg/Kg		07/15/17 04:42	07/15/17 10:59	1
Benzo[k]fluoranthene	ND		0.0067	0.0023	mg/Kg		07/15/17 04:42	07/15/17 10:59	1
Chrysene	ND		0.0067	0.0026	mg/Kg		07/15/17 04:42	07/15/17 10:59	1
Dibenz(a,h)anthracene	ND		0.0067	0.0028	mg/Kg		07/15/17 04:42	07/15/17 10:59	1
Dibenzofuran	ND		0.033	0.0027	mg/Kg		07/15/17 04:42	07/15/17 10:59	1
2,4-Dinitrotoluene	ND		0.033	0.0044	mg/Kg		07/15/17 04:42	07/15/17 10:59	1
1,4-Dioxane	ND		0.067	0.0050	mg/Kg		07/15/17 04:42	07/15/17 10:59	1
Fluoranthene	ND		0.0067	0.0026	mg/Kg		07/15/17 04:42	07/15/17 10:59	1
Fluorene	ND		0.0067	0.0024	mg/Kg		07/15/17 04:42	07/15/17 10:59	1
Hexachlorobenzene	ND		0.0067	0.0027	mg/Kg		07/15/17 04:42	07/15/17 10:59	1
Hexachlorobutadiene	ND		0.0067	0.0021	mg/Kg		07/15/17 04:42	07/15/17 10:59	1
Hexachloroethane	ND		0.033	0.0024	mg/Kg		07/15/17 04:42	07/15/17 10:59	1
Indeno[1,2,3-cd]pyrene	ND		0.0067	0.0026	mg/Kg		07/15/17 04:42	07/15/17 10:59	1
2-Methylphenol	ND		0.033	0.0029	mg/Kg		07/15/17 04:42	07/15/17 10:59	1
Methylphenol, 3 & 4	ND		0.033	0.0030	mg/Kg		07/15/17 04:42	07/15/17 10:59	1
Naphthalene	ND		0.0067	0.0024	mg/Kg		07/15/17 04:42	07/15/17 10:59	1
Nitrobenzene	ND		0.067	0.0025	mg/Kg		07/15/17 04:42	07/15/17 10:59	1
Pentachlorophenol	ND		0.17	0.063	mg/Kg		07/15/17 04:42	07/15/17 10:59	1
Phenanthrene	ND		0.0067	0.0028	mg/Kg		07/15/17 04:42	07/15/17 10:59	1
Phenol	ND		0.033	0.0045	mg/Kg		07/15/17 04:42	07/15/17 10:59	1
Pyrene	ND		0.0067	0.0030	mg/Kg		07/15/17 04:42	07/15/17 10:59	1
Pyridine	ND		0.033	0.0032	mg/Kg		07/15/17 04:42	07/15/17 10:59	1
2,4,5-Trichlorophenol	ND		0.033	0.0032	mg/Kg		07/15/17 04:42	07/15/17 10:59	1
2,4,6-Trichlorophenol	ND		0.033	0.0029	mg/Kg		07/15/17 04:42	07/15/17 10:59	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*82*		*42 - 100*	*07/15/17 04:42*	*07/15/17 10:59*	*1*
2-Fluorophenol (Surr)	*75*		*21 - 107*	*07/15/17 04:42*	*07/15/17 10:59*	*1*
Nitrobenzene-d5 (Surr)	*82*		*35 - 109*	*07/15/17 04:42*	*07/15/17 10:59*	*1*
Phenol-d5 (Surr)	*68*		*29 - 105*	*07/15/17 04:42*	*07/15/17 10:59*	*1*
Terphenyl-d14 (Surr)	*86*		*36 - 113*	*07/15/17 04:42*	*07/15/17 10:59*	*1*
2,4,6-Tribromophenol (Surr)	*77*		*20 - 134*	*07/15/17 04:42*	*07/15/17 10:59*	*1*

Lab Sample ID: MB 180-217139/1-A
Matrix: Solid
Analysis Batch: 217242

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 217139

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0067	0.0022	mg/Kg		07/15/17 04:42	07/17/17 11:21	1
Acenaphthylene	ND		0.0067	0.0023	mg/Kg		07/15/17 04:42	07/17/17 11:21	1
Anthracene	ND		0.0067	0.0025	mg/Kg		07/15/17 04:42	07/17/17 11:21	1
Benzo[a]anthracene	ND		0.0067	0.0026	mg/Kg		07/15/17 04:42	07/17/17 11:21	1

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: MB 180-217139/1-A
Matrix: Solid
Analysis Batch: 217242

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 217139

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	ND		0.0067	0.0028	mg/Kg		07/15/17 04:42	07/17/17 11:21	1
Benzo[b]fluoranthene	ND		0.0067	0.0029	mg/Kg		07/15/17 04:42	07/17/17 11:21	1
Benzo[g,h,i]perylene	ND		0.0067	0.0029	mg/Kg		07/15/17 04:42	07/17/17 11:21	1
Benzo[k]fluoranthene	ND		0.0067	0.0023	mg/Kg		07/15/17 04:42	07/17/17 11:21	1
Chrysene	ND		0.0067	0.0026	mg/Kg		07/15/17 04:42	07/17/17 11:21	1
Dibenz(a,h)anthracene	ND		0.0067	0.0028	mg/Kg		07/15/17 04:42	07/17/17 11:21	1
Dibenzofuran	ND		0.033	0.0027	mg/Kg		07/15/17 04:42	07/17/17 11:21	1
2,4-Dinitrotoluene	ND		0.033	0.0044	mg/Kg		07/15/17 04:42	07/17/17 11:21	1
1,4-Dioxane	ND		0.067	0.0050	mg/Kg		07/15/17 04:42	07/17/17 11:21	1
Fluoranthene	ND		0.0067	0.0026	mg/Kg		07/15/17 04:42	07/17/17 11:21	1
Fluorene	ND		0.0067	0.0024	mg/Kg		07/15/17 04:42	07/17/17 11:21	1
Hexachlorobenzene	ND		0.0067	0.0027	mg/Kg		07/15/17 04:42	07/17/17 11:21	1
Hexachlorobutadiene	ND		0.0067	0.0021	mg/Kg		07/15/17 04:42	07/17/17 11:21	1
Hexachloroethane	ND		0.033	0.0024	mg/Kg		07/15/17 04:42	07/17/17 11:21	1
Indeno[1,2,3-cd]pyrene	ND		0.0067	0.0026	mg/Kg		07/15/17 04:42	07/17/17 11:21	1
2-Methylphenol	ND		0.033	0.0029	mg/Kg		07/15/17 04:42	07/17/17 11:21	1
Methylphenol, 3 & 4	ND		0.033	0.0030	mg/Kg		07/15/17 04:42	07/17/17 11:21	1
Naphthalene	ND		0.0067	0.0024	mg/Kg		07/15/17 04:42	07/17/17 11:21	1
Nitrobenzene	ND		0.067	0.0025	mg/Kg		07/15/17 04:42	07/17/17 11:21	1
Pentachlorophenol	ND		0.17	0.063	mg/Kg		07/15/17 04:42	07/17/17 11:21	1
Phenanthrene	ND		0.0067	0.0028	mg/Kg		07/15/17 04:42	07/17/17 11:21	1
Phenol	ND		0.033	0.0045	mg/Kg		07/15/17 04:42	07/17/17 11:21	1
Pyrene	ND		0.0067	0.0030	mg/Kg		07/15/17 04:42	07/17/17 11:21	1
Pyridine	ND		0.033	0.0032	mg/Kg		07/15/17 04:42	07/17/17 11:21	1
2,4,5-Trichlorophenol	ND		0.033	0.0032	mg/Kg		07/15/17 04:42	07/17/17 11:21	1
2,4,6-Trichlorophenol	ND		0.033	0.0029	mg/Kg		07/15/17 04:42	07/17/17 11:21	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*61*		*42 - 100*	*07/15/17 04:42*	*07/17/17 11:21*	*1*
2-Fluorophenol (Surr)	*65*		*21 - 107*	*07/15/17 04:42*	*07/17/17 11:21*	*1*
Nitrobenzene-d5 (Surr)	*66*		*35 - 109*	*07/15/17 04:42*	*07/17/17 11:21*	*1*
Phenol-d5 (Surr)	*60*		*29 - 105*	*07/15/17 04:42*	*07/17/17 11:21*	*1*
Terphenyl-d14 (Surr)	*62*		*36 - 113*	*07/15/17 04:42*	*07/17/17 11:21*	*1*
2,4,6-Tribromophenol (Surr)	*66*		*20 - 134*	*07/15/17 04:42*	*07/17/17 11:21*	*1*

Lab Sample ID: LCS 180-217139/2-A
Matrix: Solid
Analysis Batch: 217155

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 217139

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	0.667	0.531		mg/Kg		80	39 - 100
Acenaphthylene	0.667	0.513		mg/Kg		77	42 - 100
Anthracene	0.667	0.587		mg/Kg		88	43 - 100
Benzo[a]anthracene	0.667	0.572		mg/Kg		86	43 - 100
Benzo[a]pyrene	0.667	0.551		mg/Kg		83	43 - 100
Benzo[b]fluoranthene	0.667	0.523		mg/Kg		78	40 - 100
Benzo[g,h,i]perylene	0.667	0.540		mg/Kg		81	41 - 102
Benzo[k]fluoranthene	0.667	0.528		mg/Kg		79	44 - 100

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCS 180-217139/2-A
Matrix: Solid
Analysis Batch: 217155

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 217139

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chrysene	0.667	0.545		mg/Kg		82	44 - 100
Dibenz(a,h)anthracene	0.667	0.547		mg/Kg		82	40 - 104
Dibenzofuran	0.667	0.506		mg/Kg		76	42 - 100
2,4-Dinitrotoluene	0.667	0.562		mg/Kg		84	42 - 110
1,4-Dioxane	0.667	0.547		mg/Kg		82	19 - 107
Fluoranthene	0.667	0.592		mg/Kg		89	41 - 104
Fluorene	0.667	0.538		mg/Kg		81	41 - 100
Hexachlorobenzene	0.667	0.626		mg/Kg		94	43 - 100
Hexachlorobutadiene	0.667	0.581		mg/Kg		87	35 - 100
Hexachloroethane	0.667	0.455		mg/Kg		68	35 - 100
Indeno[1,2,3-cd]pyrene	0.667	0.555		mg/Kg		83	41 - 104
2-Methylphenol	0.667	0.460		mg/Kg		69	38 - 100
Methylphenol, 3 & 4	0.667	0.435		mg/Kg		65	40 - 100
Naphthalene	0.667	0.467		mg/Kg		70	38 - 100
Nitrobenzene	0.667	0.480		mg/Kg		72	34 - 100
Pentachlorophenol	1.33	0.863		mg/Kg		65	34 - 102
Phenanthrene	0.667	0.563		mg/Kg		84	41 - 100
Phenol	0.667	0.430		mg/Kg		65	36 - 100
Pyrene	0.667	0.540		mg/Kg		81	42 - 100
Pyridine	1.33	1.20		mg/Kg		90	25 - 119
2,4,5-Trichlorophenol	0.667	0.574		mg/Kg		86	42 - 100
2,4,6-Trichlorophenol	0.667	0.554		mg/Kg		83	41 - 103

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*74*		*42 - 100*
2-Fluorophenol (Surr)	*68*		*21 - 107*
Nitrobenzene-d5 (Surr)	*67*		*35 - 109*
Phenol-d5 (Surr)	*59*		*29 - 105*
Terphenyl-d14 (Surr)	*78*		*36 - 113*
2,4,6-Tribromophenol (Surr)	*79*		*20 - 134*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 180-217140/1-C
Matrix: Solid
Analysis Batch: 217178

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 217140

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.017	0.0088	mg/Kg		07/15/17 04:45	07/15/17 18:13	1
PCB-1221	ND		0.017	0.0086	mg/Kg		07/15/17 04:45	07/15/17 18:13	1
PCB-1232	ND		0.017	0.0066	mg/Kg		07/15/17 04:45	07/15/17 18:13	1
PCB-1242	ND		0.017	0.013	mg/Kg		07/15/17 04:45	07/15/17 18:13	1
PCB-1248	ND		0.017	0.0080	mg/Kg		07/15/17 04:45	07/15/17 18:13	1
PCB-1254	ND		0.017	0.0073	mg/Kg		07/15/17 04:45	07/15/17 18:13	1
PCB-1260	ND		0.017	0.011	mg/Kg		07/15/17 04:45	07/15/17 18:13	1
PCB-1262	ND		0.017	0.012	mg/Kg		07/15/17 04:45	07/15/17 18:13	1
PCB-1268	ND		0.017	0.0051	mg/Kg		07/15/17 04:45	07/15/17 18:13	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: MB 180-217140/1-C
Matrix: Solid
Analysis Batch: 217178

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 217140

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*93*		*23 - 150*	*07/15/17 04:45*	*07/15/17 18:13*	*1*
DCB Decachlorobiphenyl (Surr)	*101*		*23 - 150*	*07/15/17 04:45*	*07/15/17 18:13*	*1*
Tetrachloro-m-xylene (Surr)	*89*		*27 - 138*	*07/15/17 04:45*	*07/15/17 18:13*	*1*
Tetrachloro-m-xylene (Surr)	*95*		*27 - 138*	*07/15/17 04:45*	*07/15/17 18:13*	*1*

Lab Sample ID: LCS 180-217140/2-C
Matrix: Solid
Analysis Batch: 217178

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 217140

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	1.33	0.976		mg/Kg		73	52 - 126
PCB-1260	1.33	1.07		mg/Kg		81	50 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*91*		*23 - 150*
DCB Decachlorobiphenyl (Surr)	*96*		*23 - 150*
Tetrachloro-m-xylene (Surr)	*87*		*27 - 138*
Tetrachloro-m-xylene (Surr)	*89*		*27 - 138*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 180-217101/1-A
Matrix: Solid
Analysis Batch: 217275

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 217101

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		1.0	0.44	mg/Kg		07/14/17 11:31	07/17/17 07:58	1
Barium	ND		20	5.4	mg/Kg		07/14/17 11:31	07/17/17 07:58	1
Beryllium	ND		0.40	0.10	mg/Kg		07/14/17 11:31	07/17/17 07:58	1
Cadmium	ND		0.50	0.11	mg/Kg		07/14/17 11:31	07/17/17 07:58	1
Chromium	ND		0.50	0.13	mg/Kg		07/14/17 11:31	07/17/17 07:58	1
Copper	ND		2.5	0.77	mg/Kg		07/14/17 11:31	07/17/17 07:58	1
Lead	ND		1.0	0.33	mg/Kg		07/14/17 11:31	07/17/17 07:58	1
Manganese	ND		1.5	0.41	mg/Kg		07/14/17 11:31	07/17/17 07:58	1
Nickel	ND		4.0	0.90	mg/Kg		07/14/17 11:31	07/17/17 07:58	1
Selenium	ND		1.0	0.40	mg/Kg		07/14/17 11:31	07/17/17 07:58	1
Silver	ND		0.50	0.17	mg/Kg		07/14/17 11:31	07/17/17 07:58	1
Zinc	ND		2.0	1.0	mg/Kg		07/14/17 11:31	07/17/17 07:58	1

Lab Sample ID: LCS 180-217101/2-A
Matrix: Solid
Analysis Batch: 217275

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 217101

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	50.0	51.4		mg/Kg		103	80 - 120
Barium	200	203		mg/Kg		101	80 - 120
Beryllium	5.00	5.12		mg/Kg		102	80 - 120
Cadmium	5.00	5.13		mg/Kg		103	80 - 120

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCS 180-217101/2-A
Matrix: Solid
Analysis Batch: 217275

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 217101

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium	20.0	20.1		mg/Kg		100	80 - 120
Copper	25.0	25.5		mg/Kg		102	80 - 120
Lead	50.0	49.3		mg/Kg		99	80 - 120
Manganese	50.0	50.0		mg/Kg		100	80 - 120
Nickel	50.0	50.8		mg/Kg		102	80 - 120
Selenium	50.0	50.6		mg/Kg		101	80 - 120
Silver	5.00	5.03		mg/Kg		101	80 - 120
Zinc	50.0	53.8		mg/Kg		108	80 - 120

Lab Sample ID: 180-68140-A-3-B MS
Matrix: Solid
Analysis Batch: 217275

Client Sample ID: 180-68140-A-3-B MS
Prep Type: Total/NA
Prep Batch: 217101

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	12		52.7	53.6		mg/Kg	☼	79	75 - 125
Barium	77		211	256		mg/Kg	☼	85	75 - 125
Beryllium	0.34	J	5.27	4.86		mg/Kg	☼	86	75 - 125
Cadmium	0.19	J	5.27	4.95		mg/Kg	☼	90	75 - 125
Chromium	9.9		21.1	26.2		mg/Kg	☼	78	75 - 125
Copper	26		26.4	50.6		mg/Kg	☼	92	75 - 125
Lead	34	F1	52.7	101	F1	mg/Kg	☼	126	75 - 125
Manganese	550		52.7	435	4	mg/Kg	☼	-209	75 - 125
Nickel	19		52.7	67.5		mg/Kg	☼	92	75 - 125
Selenium	ND		52.7	46.7		mg/Kg	☼	89	75 - 125
Silver	ND		5.27	4.78		mg/Kg	☼	91	75 - 125
Zinc	82		52.7	125		mg/Kg	☼	82	75 - 125

Lab Sample ID: 180-68140-A-3-C MSD
Matrix: Solid
Analysis Batch: 217275

Client Sample ID: 180-68140-A-3-C MSD
Prep Type: Total/NA
Prep Batch: 217101

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	12		54.9	56.2		mg/Kg	☼	81	75 - 125	5	20
Barium	77		219	284		mg/Kg	☼	94	75 - 125	10	20
Beryllium	0.34	J	5.49	5.23		mg/Kg	☼	89	75 - 125	7	20
Cadmium	0.19	J	5.49	5.16		mg/Kg	☼	91	75 - 125	4	20
Chromium	9.9		21.9	29.2		mg/Kg	☼	88	75 - 125	11	20
Copper	26		27.4	51.6		mg/Kg	☼	92	75 - 125	2	20
Lead	34	F1	54.9	91.2		mg/Kg	☼	103	75 - 125	10	20
Manganese	550		54.9	414	4	mg/Kg	☼	-238	75 - 125	5	20
Nickel	19		54.9	71.4		mg/Kg	☼	96	75 - 125	6	20
Selenium	ND		54.9	49.1		mg/Kg	☼	90	75 - 125	5	20
Silver	ND		5.49	5.00		mg/Kg	☼	91	75 - 125	5	20
Zinc	82		54.9	127		mg/Kg	☼	82	75 - 125	1	20

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 180-217422/1-A
Matrix: Solid
Analysis Batch: 217578

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 217422

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.033	0.0074	mg/Kg		07/18/17 14:49	07/19/17 11:55	1

Lab Sample ID: LCS 180-217422/2-A
Matrix: Solid
Analysis Batch: 217578

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 217422

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			0.417	0.478		mg/Kg		115	80 - 120		

Lab Sample ID: 180-68140-3 MS
Matrix: Solid
Analysis Batch: 217578

Client Sample ID: W4, S1, C 71217
Prep Type: Total/NA
Prep Batch: 217422

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury	0.16	F1 F2	0.191	0.874	F1	mg/Kg	☼	373	80 - 120		

Lab Sample ID: 180-68140-3 MSD
Matrix: Solid
Analysis Batch: 217578

Client Sample ID: W4, S1, C 71217
Prep Type: Total/NA
Prep Batch: 217422

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.16	F1 F2	0.181	0.672	F1 F2	mg/Kg	☼	282	80 - 120	26	20

Method: 2540G - SM 2540G

Lab Sample ID: 180-68140-3 DU
Matrix: Solid
Analysis Batch: 217112

Client Sample ID: W4, S1, C 71217
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	8.0			8.1		%				1	20
Percent Solids	92.0			91.9		%				0.1	20

Lab Sample ID: 180-68140-21 DU
Matrix: Solid
Analysis Batch: 217112

Client Sample ID: W5, S4, C 71217
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	9.0			9.5		%				5	20
Percent Solids	91.0			90.5		%				0.5	20

Method: 9014 - Cyanide

Lab Sample ID: MB 180-217382/4-A
Matrix: Solid
Analysis Batch: 217445

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 217382

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.50	0.15	mg/Kg		07/18/17 10:56	07/18/17 14:05	1

Lab Sample ID: HLCS 180-217382/2-A
Matrix: Solid
Analysis Batch: 217445

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 217382

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.250	0.248		mg/Kg		99	90 - 110

Lab Sample ID: LCS 180-217382/3-A
Matrix: Solid
Analysis Batch: 217445

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 217382

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	158	106		mg/Kg		67	38 - 162

Lab Sample ID: LLCS 180-217382/1-A
Matrix: Solid
Analysis Batch: 217445

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 217382

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.0500	0.0493		mg/Kg		99	90 - 110

GC/MS VOA

Analysis Batch: 217186

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68140-16	W5, S5, A 71217	Total/NA	Solid	8260C	217187
180-68140-20	W5, S4, B 71217	Total/NA	Solid	8260C	217187
180-68140-23	W5, S3, B 71217	Total/NA	Solid	8260C	217187
180-68140-25	W5, S2, A 71217	Total/NA	Solid	8260C	217187
180-68140-26	W5, S2, B 71217	Total/NA	Solid	8260C	217187
180-68140-28	W5, S1, A 71217	Total/NA	Solid	8260C	217187
180-68140-29	W5, S1, B 71217	Total/NA	Solid	8260C	217187
MB 180-217186/9	Method Blank	Total/NA	Solid	8260C	
LCS 180-217186/4	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 180-217186/5	Lab Control Sample Dup	Total/NA	Solid	8260C	

Prep Batch: 217187

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68140-16	W5, S5, A 71217	Total/NA	Solid	5035	
180-68140-20	W5, S4, B 71217	Total/NA	Solid	5035	
180-68140-23	W5, S3, B 71217	Total/NA	Solid	5035	
180-68140-25	W5, S2, A 71217	Total/NA	Solid	5035	
180-68140-26	W5, S2, B 71217	Total/NA	Solid	5035	
180-68140-28	W5, S1, A 71217	Total/NA	Solid	5035	
180-68140-29	W5, S1, B 71217	Total/NA	Solid	5035	

Analysis Batch: 217209

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68140-17	W5, S5, B 71217	Total/NA	Solid	8260C	217220
180-68140-19	W5, S4, A 71217	Total/NA	Solid	8260C	217220
180-68140-22	W5, S3, A 71217	Total/NA	Solid	8260C	217220
180-68140-32	DUP-7	Total/NA	Solid	8260C	217220
180-68140-33	DUP-8	Total/NA	Solid	8260C	217220
MB 180-217209/11	Method Blank	Total/NA	Solid	8260C	
LCS 180-217209/4	Lab Control Sample	Total/NA	Solid	8260C	

Prep Batch: 217220

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68140-17	W5, S5, B 71217	Total/NA	Solid	5035	
180-68140-19	W5, S4, A 71217	Total/NA	Solid	5035	
180-68140-22	W5, S3, A 71217	Total/NA	Solid	5035	
180-68140-32	DUP-7	Total/NA	Solid	5035	
180-68140-33	DUP-8	Total/NA	Solid	5035	

Analysis Batch: 217455

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68140-34	TRIP BLANK 1	Total/NA	Water	8260C	
180-68140-35	TRIP BLANK 2	Total/NA	Water	8260C	
MB 180-217455/5	Method Blank	Total/NA	Water	8260C	
LCS 180-217455/3	Lab Control Sample	Total/NA	Water	8260C	

QC Association Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68140-1

GC/MS Semi VOA

Prep Batch: 217139

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68140-3	W4, S1, C 71217	Total/NA	Solid	3541	
180-68140-6	W4, S2, C 71217	Total/NA	Solid	3541	
180-68140-9	W4, S3, C 71217	Total/NA	Solid	3541	
180-68140-12	W4, S4, C 71217	Total/NA	Solid	3541	
180-68140-15	W4, S5, C 71217	Total/NA	Solid	3541	
180-68140-18	W5, S5, C 71217	Total/NA	Solid	3541	
180-68140-21	W5, S4, C 71217	Total/NA	Solid	3541	
180-68140-24	W5, S3, C 71217	Total/NA	Solid	3541	
180-68140-27	W5, S2, C 71217	Total/NA	Solid	3541	
180-68140-30	W5, S1, C 71217	Total/NA	Solid	3541	
180-68140-31	DUP-6	Total/NA	Solid	3541	
MB 180-217139/1-A	Method Blank	Total/NA	Solid	3541	
LCS 180-217139/2-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 217155

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68140-9	W4, S3, C 71217	Total/NA	Solid	8270D LL	217139
180-68140-12	W4, S4, C 71217	Total/NA	Solid	8270D LL	217139
180-68140-15	W4, S5, C 71217	Total/NA	Solid	8270D LL	217139
MB 180-217139/1-A	Method Blank	Total/NA	Solid	8270D LL	217139
LCS 180-217139/2-A	Lab Control Sample	Total/NA	Solid	8270D LL	217139

Analysis Batch: 217242

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68140-3	W4, S1, C 71217	Total/NA	Solid	8270D LL	217139
180-68140-6	W4, S2, C 71217	Total/NA	Solid	8270D LL	217139
180-68140-18	W5, S5, C 71217	Total/NA	Solid	8270D LL	217139
180-68140-21	W5, S4, C 71217	Total/NA	Solid	8270D LL	217139
180-68140-24	W5, S3, C 71217	Total/NA	Solid	8270D LL	217139
180-68140-27	W5, S2, C 71217	Total/NA	Solid	8270D LL	217139
180-68140-30	W5, S1, C 71217	Total/NA	Solid	8270D LL	217139
180-68140-31	DUP-6	Total/NA	Solid	8270D LL	217139
MB 180-217139/1-A	Method Blank	Total/NA	Solid	8270D LL	217139

GC Semi VOA

Prep Batch: 217140

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68140-3	W4, S1, C 71217	Total/NA	Solid	3541	
180-68140-6	W4, S2, C 71217	Total/NA	Solid	3541	
180-68140-9	W4, S3, C 71217	Total/NA	Solid	3541	
180-68140-12	W4, S4, C 71217	Total/NA	Solid	3541	
180-68140-15	W4, S5, C 71217	Total/NA	Solid	3541	
180-68140-18	W5, S5, C 71217	Total/NA	Solid	3541	
180-68140-21	W5, S4, C 71217	Total/NA	Solid	3541	
180-68140-24	W5, S3, C 71217	Total/NA	Solid	3541	
180-68140-27	W5, S2, C 71217	Total/NA	Solid	3541	
180-68140-30	W5, S1, C 71217	Total/NA	Solid	3541	
180-68140-31	DUP-6	Total/NA	Solid	3541	
MB 180-217140/1-C	Method Blank	Total/NA	Solid	3541	

GC Semi VOA (Continued)

Prep Batch: 217140 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 180-217140/2-C	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 217178

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68140-3	W4, S1, C 71217	Total/NA	Solid	8082A	217282
180-68140-6	W4, S2, C 71217	Total/NA	Solid	8082A	217282
180-68140-9	W4, S3, C 71217	Total/NA	Solid	8082A	217282
180-68140-12	W4, S4, C 71217	Total/NA	Solid	8082A	217282
180-68140-15	W4, S5, C 71217	Total/NA	Solid	8082A	217282
180-68140-18	W5, S5, C 71217	Total/NA	Solid	8082A	217282
180-68140-21	W5, S4, C 71217	Total/NA	Solid	8082A	217282
180-68140-24	W5, S3, C 71217	Total/NA	Solid	8082A	217282
180-68140-27	W5, S2, C 71217	Total/NA	Solid	8082A	217282
180-68140-30	W5, S1, C 71217	Total/NA	Solid	8082A	217282
180-68140-31	DUP-6	Total/NA	Solid	8082A	217282
MB 180-217140/1-C	Method Blank	Total/NA	Solid	8082A	217282
LCS 180-217140/2-C	Lab Control Sample	Total/NA	Solid	8082A	217282

Cleanup Batch: 217281

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68140-3	W4, S1, C 71217	Total/NA	Solid	3665A	217140
180-68140-6	W4, S2, C 71217	Total/NA	Solid	3665A	217140
180-68140-9	W4, S3, C 71217	Total/NA	Solid	3665A	217140
180-68140-12	W4, S4, C 71217	Total/NA	Solid	3665A	217140
180-68140-15	W4, S5, C 71217	Total/NA	Solid	3665A	217140
180-68140-18	W5, S5, C 71217	Total/NA	Solid	3665A	217140
180-68140-21	W5, S4, C 71217	Total/NA	Solid	3665A	217140
180-68140-24	W5, S3, C 71217	Total/NA	Solid	3665A	217140
180-68140-27	W5, S2, C 71217	Total/NA	Solid	3665A	217140
180-68140-30	W5, S1, C 71217	Total/NA	Solid	3665A	217140
180-68140-31	DUP-6	Total/NA	Solid	3665A	217140
MB 180-217140/1-C	Method Blank	Total/NA	Solid	3665A	217140
LCS 180-217140/2-C	Lab Control Sample	Total/NA	Solid	3665A	217140

Cleanup Batch: 217282

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68140-3	W4, S1, C 71217	Total/NA	Solid	3660B	217281
180-68140-6	W4, S2, C 71217	Total/NA	Solid	3660B	217281
180-68140-9	W4, S3, C 71217	Total/NA	Solid	3660B	217281
180-68140-12	W4, S4, C 71217	Total/NA	Solid	3660B	217281
180-68140-15	W4, S5, C 71217	Total/NA	Solid	3660B	217281
180-68140-18	W5, S5, C 71217	Total/NA	Solid	3660B	217281
180-68140-21	W5, S4, C 71217	Total/NA	Solid	3660B	217281
180-68140-24	W5, S3, C 71217	Total/NA	Solid	3660B	217281
180-68140-27	W5, S2, C 71217	Total/NA	Solid	3660B	217281
180-68140-30	W5, S1, C 71217	Total/NA	Solid	3660B	217281
180-68140-31	DUP-6	Total/NA	Solid	3660B	217281
MB 180-217140/1-C	Method Blank	Total/NA	Solid	3660B	217281
LCS 180-217140/2-C	Lab Control Sample	Total/NA	Solid	3660B	217281

Metals

Prep Batch: 217101

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68140-3	W4, S1, C 71217	Total/NA	Solid	3050B	
180-68140-6	W4, S2, C 71217	Total/NA	Solid	3050B	
180-68140-9	W4, S3, C 71217	Total/NA	Solid	3050B	
180-68140-12	W4, S4, C 71217	Total/NA	Solid	3050B	
180-68140-15	W4, S5, C 71217	Total/NA	Solid	3050B	
180-68140-18	W5, S5, C 71217	Total/NA	Solid	3050B	
180-68140-21	W5, S4, C 71217	Total/NA	Solid	3050B	
180-68140-24	W5, S3, C 71217	Total/NA	Solid	3050B	
180-68140-27	W5, S2, C 71217	Total/NA	Solid	3050B	
180-68140-30	W5, S1, C 71217	Total/NA	Solid	3050B	
180-68140-31	DUP-6	Total/NA	Solid	3050B	
MB 180-217101/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 180-217101/2-A	Lab Control Sample	Total/NA	Solid	3050B	
180-68140-A-3-B MS	180-68140-A-3-B MS	Total/NA	Solid	3050B	
180-68140-A-3-C MSD	180-68140-A-3-C MSD	Total/NA	Solid	3050B	

Analysis Batch: 217275

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68140-3	W4, S1, C 71217	Total/NA	Solid	6010C	217101
180-68140-6	W4, S2, C 71217	Total/NA	Solid	6010C	217101
180-68140-9	W4, S3, C 71217	Total/NA	Solid	6010C	217101
180-68140-12	W4, S4, C 71217	Total/NA	Solid	6010C	217101
180-68140-15	W4, S5, C 71217	Total/NA	Solid	6010C	217101
180-68140-18	W5, S5, C 71217	Total/NA	Solid	6010C	217101
180-68140-21	W5, S4, C 71217	Total/NA	Solid	6010C	217101
180-68140-24	W5, S3, C 71217	Total/NA	Solid	6010C	217101
180-68140-27	W5, S2, C 71217	Total/NA	Solid	6010C	217101
180-68140-30	W5, S1, C 71217	Total/NA	Solid	6010C	217101
180-68140-31	DUP-6	Total/NA	Solid	6010C	217101
MB 180-217101/1-A	Method Blank	Total/NA	Solid	6010C	217101
LCS 180-217101/2-A	Lab Control Sample	Total/NA	Solid	6010C	217101
180-68140-A-3-B MS	180-68140-A-3-B MS	Total/NA	Solid	6010C	217101
180-68140-A-3-C MSD	180-68140-A-3-C MSD	Total/NA	Solid	6010C	217101

Prep Batch: 217422

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68140-3	W4, S1, C 71217	Total/NA	Solid	7471B	
180-68140-6	W4, S2, C 71217	Total/NA	Solid	7471B	
180-68140-9	W4, S3, C 71217	Total/NA	Solid	7471B	
180-68140-12	W4, S4, C 71217	Total/NA	Solid	7471B	
180-68140-15	W4, S5, C 71217	Total/NA	Solid	7471B	
180-68140-18	W5, S5, C 71217	Total/NA	Solid	7471B	
180-68140-21	W5, S4, C 71217	Total/NA	Solid	7471B	
180-68140-24	W5, S3, C 71217	Total/NA	Solid	7471B	
180-68140-27	W5, S2, C 71217	Total/NA	Solid	7471B	
180-68140-30	W5, S1, C 71217	Total/NA	Solid	7471B	
180-68140-31	DUP-6	Total/NA	Solid	7471B	
MB 180-217422/1-A	Method Blank	Total/NA	Solid	7471B	
LCS 180-217422/2-A	Lab Control Sample	Total/NA	Solid	7471B	
180-68140-3 MS	W4, S1, C 71217	Total/NA	Solid	7471B	
180-68140-3 MSD	W4, S1, C 71217	Total/NA	Solid	7471B	

Analysis Batch: 217578

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68140-3	W4, S1, C 71217	Total/NA	Solid	7471B	217422
180-68140-6	W4, S2, C 71217	Total/NA	Solid	7471B	217422
180-68140-9	W4, S3, C 71217	Total/NA	Solid	7471B	217422
180-68140-12	W4, S4, C 71217	Total/NA	Solid	7471B	217422
180-68140-15	W4, S5, C 71217	Total/NA	Solid	7471B	217422
180-68140-18	W5, S5, C 71217	Total/NA	Solid	7471B	217422
180-68140-21	W5, S4, C 71217	Total/NA	Solid	7471B	217422
180-68140-24	W5, S3, C 71217	Total/NA	Solid	7471B	217422
180-68140-27	W5, S2, C 71217	Total/NA	Solid	7471B	217422
180-68140-30	W5, S1, C 71217	Total/NA	Solid	7471B	217422
180-68140-31	DUP-6	Total/NA	Solid	7471B	217422
MB 180-217422/1-A	Method Blank	Total/NA	Solid	7471B	217422
LCS 180-217422/2-A	Lab Control Sample	Total/NA	Solid	7471B	217422
180-68140-3 MS	W4, S1, C 71217	Total/NA	Solid	7471B	217422
180-68140-3 MSD	W4, S1, C 71217	Total/NA	Solid	7471B	217422

General Chemistry

Analysis Batch: 217112

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68140-3	W4, S1, C 71217	Total/NA	Solid	2540G	
180-68140-6	W4, S2, C 71217	Total/NA	Solid	2540G	
180-68140-9	W4, S3, C 71217	Total/NA	Solid	2540G	
180-68140-12	W4, S4, C 71217	Total/NA	Solid	2540G	
180-68140-15	W4, S5, C 71217	Total/NA	Solid	2540G	
180-68140-16	W5, S5, A 71217	Total/NA	Solid	2540G	
180-68140-17	W5, S5, B 71217	Total/NA	Solid	2540G	
180-68140-18	W5, S5, C 71217	Total/NA	Solid	2540G	
180-68140-19	W5, S4, A 71217	Total/NA	Solid	2540G	
180-68140-20	W5, S4, B 71217	Total/NA	Solid	2540G	
180-68140-21	W5, S4, C 71217	Total/NA	Solid	2540G	
180-68140-22	W5, S3, A 71217	Total/NA	Solid	2540G	
180-68140-23	W5, S3, B 71217	Total/NA	Solid	2540G	
180-68140-24	W5, S3, C 71217	Total/NA	Solid	2540G	
180-68140-25	W5, S2, A 71217	Total/NA	Solid	2540G	
180-68140-26	W5, S2, B 71217	Total/NA	Solid	2540G	
180-68140-27	W5, S2, C 71217	Total/NA	Solid	2540G	
180-68140-28	W5, S1, A 71217	Total/NA	Solid	2540G	
180-68140-29	W5, S1, B 71217	Total/NA	Solid	2540G	
180-68140-30	W5, S1, C 71217	Total/NA	Solid	2540G	
180-68140-3 DU	W4, S1, C 71217	Total/NA	Solid	2540G	
180-68140-21 DU	W5, S4, C 71217	Total/NA	Solid	2540G	

Analysis Batch: 217115

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68140-31	DUP-6	Total/NA	Solid	2540G	
180-68140-32	DUP-7	Total/NA	Solid	2540G	
180-68140-33	DUP-8	Total/NA	Solid	2540G	

Prep Batch: 217382

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68140-3	W4, S1, C 71217	Total/NA	Solid	9010C	
180-68140-6	W4, S2, C 71217	Total/NA	Solid	9010C	

General Chemistry (Continued)

Prep Batch: 217382 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68140-9	W4, S3, C 71217	Total/NA	Solid	9010C	
180-68140-12	W4, S4, C 71217	Total/NA	Solid	9010C	
180-68140-15	W4, S5, C 71217	Total/NA	Solid	9010C	
180-68140-18	W5, S5, C 71217	Total/NA	Solid	9010C	
180-68140-21	W5, S4, C 71217	Total/NA	Solid	9010C	
180-68140-24	W5, S3, C 71217	Total/NA	Solid	9010C	
180-68140-27	W5, S2, C 71217	Total/NA	Solid	9010C	
180-68140-30	W5, S1, C 71217	Total/NA	Solid	9010C	
180-68140-31	DUP-6	Total/NA	Solid	9010C	
MB 180-217382/4-A	Method Blank	Total/NA	Solid	9010C	
HLCS 180-217382/2-A	Lab Control Sample	Total/NA	Solid	9010C	
LCS 180-217382/3-A	Lab Control Sample	Total/NA	Solid	9010C	
LLCS 180-217382/1-A	Lab Control Sample	Total/NA	Solid	9010C	

Analysis Batch: 217445

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68140-3	W4, S1, C 71217	Total/NA	Solid	9014	217382
180-68140-6	W4, S2, C 71217	Total/NA	Solid	9014	217382
180-68140-9	W4, S3, C 71217	Total/NA	Solid	9014	217382
180-68140-12	W4, S4, C 71217	Total/NA	Solid	9014	217382
180-68140-15	W4, S5, C 71217	Total/NA	Solid	9014	217382
180-68140-18	W5, S5, C 71217	Total/NA	Solid	9014	217382
180-68140-21	W5, S4, C 71217	Total/NA	Solid	9014	217382
180-68140-24	W5, S3, C 71217	Total/NA	Solid	9014	217382
180-68140-27	W5, S2, C 71217	Total/NA	Solid	9014	217382
180-68140-30	W5, S1, C 71217	Total/NA	Solid	9014	217382
180-68140-31	DUP-6	Total/NA	Solid	9014	217382
MB 180-217382/4-A	Method Blank	Total/NA	Solid	9014	217382
HLCS 180-217382/2-A	Lab Control Sample	Total/NA	Solid	9014	217382
LCS 180-217382/3-A	Lab Control Sample	Total/NA	Solid	9014	217382
LLCS 180-217382/1-A	Lab Control Sample	Total/NA	Solid	9014	217382

TestAmerica Pittsburgh
301 Alpha Drive RIDC Park
Pittsburgh, PA 15238
Phone (412) 963-7058 Fax (412) 963-2468

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Alexandra Ambrosino	Lab PM: Dunlap, David A	Carrier Tracking No(s):	COC No: 180-38453-8381.5
Client Contact: Ashwin Ranna Aron Krasnopoler	Phone: 412 552 4758	E-Mail: david.dunlap@testamericainc.com		Page: Page 1 of 4
Company: Geosyntec Consultants, Inc.				Job #:

Address: Penn Center West One, Suite 402 1 Penn Center West Drive	Due Date Requested:	Analysis Requested
City: Pittsburgh	TAT Requested (days): 1 Day	
State, Zip: PA, 15276		
Phone: 4	PO #: MN0832B	
Email: aranna@geosyntec.com	WO #:	
Project Name: Former Sperry Remington Site - North IRM	Project #: 18013464	
Site: Elmira	SSOW#:	

180-68140 Chain of Custody

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - VOA-Select List	6010C, 7471B, 9014	8082A, 8270D_LL	8260C_LL - VOA-Select List	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	A		
W4,S1,A 71217	7.12.17	835	G	Solid	N	N	X				4	Rush
W4,S1,B 71217	7.12.2017	840	G	Solid	N	N	X				4	
W4,S1,C 71217	7.12.2017	845	C	Solid	N	N		X	X		2	
W4,S2,A 71217	7.12.2017	915	G	Solid	N	Y	X				12	Perform MS MSD 3
W4,S2,B 71217	7.12.2017	920	G	Solid	N	N	X				4	
W4,S2,C 71217	7.12.2017	925	C	Solid	N	N		X	X		2	
W4,S3,A 71217	7.12.2017	945	G	Solid	N	N	X				4	Rush
W4,S3,B 71212	7.12.2017	950	G	Solid	N	N	X				4	
W4,S3,C 71217	7.12.2017	955	C	Solid	N	N		X	X		2	
W4,S4,A 71217	7.12.2017	1015	G	Solid	N	N	X				4	
W4,S4,B 71217	7.12.2017	1020	G	Solid	N	N	X				4	

Trip blank 1 for all VOCs

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment: Fedex

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Alexandra Ambrosino	7.12.2017 1830	Geosyntec	[signature]	7/14/17 930	TAL
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

7/27/2017

TestAmerica Pittsburgh
301 Alpha Drive RIDC Park
Pittsburgh, PA 15238
Phone (412) 963-7058 Fax (412) 963-2468

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Alexandra Ambrosino	Lab PM: Dunlap, David A	Carrier Tracking No(s):	COC No: 180-38453-8381.6
Client Contact: Ashwin Ranna Aron Krasnopoler	Phone: 4125524758	E-Mail: david.dunlap@testamericainc.com		Page: Page 3 of 4
Company: Geosyntec Consultants, Inc.				Job #:
Address: Penn Center West One, Suite 402 1 Penn Center West Drive	Due Date Requested:	Analysis Requested		Preservation Codes:
City: Pittsburgh	TAT Requested (days):			A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify) Other:
State, Zip: PA, 15276				
Phone:	PO #: MN0832B			
Email: aranna@geosyntec.com	WO #:			
Project Name: Former Sperry Remington Site - North IRM	Project #: 18013464			
Site:	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - VOA-Select List	6010C, 7471B, 9014	8082A, 8270D_LL	8260C_LL - VOA-Select List	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	A		
W4,S4,C 7 1217	7.12.2017	1025	C	Solid	N	N		X	X		2	Trip Blank 1 for all VOCs
W4,S5,A 7 1217	7.12.2017	1945	G	Solid	N	N	X				4	
W4,S5,B 7 1217	7.12.2017	1150	G	Solid	N	N	X				4	
W4,S5C 7 1217	7.12.2017	1155	C	Solid	N	N		X	X		2	
W5,S5,A 7 1217	7.12.2017	1225	G	Solid	N	N	X				4	Rush
W5,S5B 7 1217	7.12.2017	1230	G	Solid	N	N	X				4	Trip Blank 2 for all VOCs
W5,S5,C 7 1217	7.12.2017	1235	C	Solid	N	N		X	X		2	
W5,S4,A 7 1217	7.12.2017	1245	G	Solid	N	N	X				4	
W5,S4 B 7 1217	7.12.2017	1250	G	Solid	N	N	X				4	
W5,S4,C 7 1217	7.12.2017	1255	C	~~Solid~~ Water	N	N		X	X		2	
W5 S3 A 7 1217	7.12.2017	1315	G	~~Solid~~ Water	N	N	X				4	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment: Fedex

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Alexandra Ambrosino	7.12.2017 1830	Geosyntec	Thomas Ag	7/14/17 930	TAP
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

7/27/2017

TestAmerica Pittsburgh
301 Alpha Drive RIDC Park
Pittsburgh, PA 15238
Phone (412) 963-7058 Fax (412) 963-2468

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Alex Ambrosino	Lab PM: Dunlap, David A	Carrier Tracking No(s):	COC No: 180-38453-8381.7
Client Contact: Ashwin Ranna / Aron krasnopoler	Phone: 4125524758	E-Mail: david.dunlap@testamericainc.com		Page: Page 3 of 4
Company: Geosyntec Consultants, Inc.				Job #:
Address: Penn Center West One, Suite 402 1 Penn Center West Drive	Due Date Requested:	Analysis Requested		Preservation Codes:
City: Pittsburgh	TAT Requested (days): 1 Day			A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
State, Zip: PA, 15276	PO #: MN0832B			
Phone:	WO #:			Other:
Email: aranna@geosyntec.com akrasnopoler@geosyntec.com	Project #: 18013464			
Project Name: Former Sperry Remington Site - North IRM	SSOW#:			
Site:				

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - VOA-Select List	6010C, 7471B, 9014	8082A, 8270D_LL	8260C_LL - VOA-Select List	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	A		
WS, S3, B 7 12 17	7.12.2017	1320	G	Soil / Water	N	N	X				4	Rush
WS, S3, C 7 12 17	7.12.2017	1325	C	Soil / Water	N	N		X	X		2	
WS, S2, A 7 12 17	7.12.2017	1345	G	Soil / Water	N	N	X				4	
WS, S2, B 7 12 17	7.12.2017	1350	G	Soil	N	N	X				4	
WS, S2, C 7 12 17	7.12.2017	1355	C	Soil	N	N		X	X		2	
WS, S1, A 7 12 17	7.12.2017	1415	G	Soil	N	N	X				4	
WS, S1, B 7 12 17	7.12.2017	1420	G	Soil	N	N	X				4	
WS, S1 C 7 12 17	7.12.2017	1425	C	Soil	N	N		X	X		2	
DUP-6	7.12.2017	—	C	Soil	N	N		X	X		2	AR
DUP-7	7.12.2017	—	G	Soil	N	N	X				4	
DUP-8	7.12.2017	—	G	Soil	N	N	X				4	

Trip Blank 2 for all VOCs

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify)	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment: FedEx

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Alex Ambrosino	7.12.2017 1830	Geosyntec	[signature]	7/14/17 930	TMP
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

TestAmerica Pittsburgh
301 Alpha Drive RIDC Park
Pittsburgh, PA 15238
Phone (412) 963-7058 Fax (412) 963-2468

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Alex Ambrosino	Lab PM: Dunlap, David A	Carrier Tracking No(s):	COC No: 180-37665-7333.1
Client Contact: ~~Mary Tyler~~ Aron Krasnopoler Ahern Raurd	Phone: 4125524758	E-Mail: david.dunlap@testamericainc.com		Page: Page 4 of 4
Company: Geosyntec Consultants, Inc.				Job #:
Address: 180A Market Place Blvd	Due Date Requested:	Analysis Requested		Preservation Codes:
City: Knoxville	TAT Requested (days): 1 Day			A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
State, Zip: TN, 37922	PO #: MN0832B			Other:
Phone:	WO #:			
Email: ~~mtyler@geosyntec.com~~ akrasnopoler@geosyntec.com	Project #: 18013464			
Project Name: Former Sperry Remington Site - North	SSOW#:			
Site:				

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260 C-list VOA standard list	Total Number of containers	Special Instructions/Note:
	Preservation Code:								
Trip Blank 1	~~7.12.2017~~	—	—	Water	N	N	X	2	Rush
Trip Blank 2	7.12.2017	—	—	Water	N	N	X	2	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment: Fedex

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Alex Ambrosino	7.12.2017 1930	Geosyntec		7/14/17 930	TAP
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

7/27/2017

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 180-68140-1

Login Number: 68140
List Number: 1
Creator: Dunlap, David A

List Source: TestAmerica Pittsburgh

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

TestAmerica Job ID: 180-68219-1
Client Project/Site: Former Sperry Remington Site - North IRM
Revision: 1

For:
Geosyntec Consultants, Inc.
10211 Wincopin Circle
4'th Floor
Columbia, Maryland 21044

Attn: Mr. Aron Krasnopoler

Authorized for release by:
7/27/2017 10:52:01 AM

David Dunlap, Senior Project Manager
(412)963-2432
david.dunlap@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Job ID: 180-68219-1

Laboratory: TestAmerica Pittsburgh

Narrative

Job Narrative
180-68219-1

Comments
This is a revised report. At the request of the client, 2,4-dinitrotoluene, hexachlorobutadiene, hexachloroethane, nitrobenzene, pyridine, 2,4,5-trichlorophenol, and 2,4,6-trichlorophenol are now reported in the semivolatiles analysis.

Method(s) 8270D LL: The matrix spike duplicate (MSD) of sample W6, S4, C 071317 (180-68219-12) had the recovery of pyridine slightly below the control limits.

Receipt
The samples were received on 7/15/2017 9:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 8 coolers at receipt time were 2.4º C, 2.6º C, 3.1º C, 3.1º C, 3.6º C, 3.6º C, 3.7º C and 4.8º C.

Trip Blank 4 was received, but was not listed on the COCs.

The container labels for the MS/MSD of sample W4, S4, A 71317 (180-68219-44) had a time of 15:45, where as the COC listed 15:15 The container labels list a collection time of 1545, while the parent sample says 1515. The COC lists a sample collection time of 1515 as well.

The results of the volatiles samples, IDs beginning with “W4”, are reported in job 180-68219-2.

GC/MS VOA
Method(s) 8260C: Several RPDs between the matrix spike/matrix spike duplicate (MS/MSD) of sample W8, S3, B 71317 (180-68219-38) were above the control limits. The recoveries were within the control limits.

Method(s) 8260C: The continuing calibration verification (CCV) analyzed in 180-217322 was above criteria for the following analyte: vinyl chloride. As the CCV was high and vinyl chloride was not detected in the associated samples, the results were reported.

Method(s) 8260C: The continuing calibration verification (CCV) analyzed in batch 180-217610 was below criteria for the following analyte: carbon tetrachloride. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte is considered estimated. Carbon tetrachloride was not detected in the associated samples.

Method(s) 8260C: The continuing calibration verification (CCV) analyzed in 180-217455 was above criteria for the following analytes: n-butylbenzene and vinyl chloride. As the CCV was high and these analytes were not detected in the associated samples, the results were reported.

Method(s) 8260C: The continuing calibration verification (CCV) analyzed in batch 180-217455 was below criteria for the following analyte: carbon tetrachloride. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte is considered estimated. Carbon tetrachloride was not detected in the associated samples.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method(s) 8270D LL: The following samples were diluted to bring the concentration of target analytes within the calibration range: W7, S2, C 71317 (180-68219-27), W7, S1, C 71317 (180-68219-30), and W8, S3, C 71317 (180-68219-39). Elevated reporting limits (RLs) are provided. Sample W7, S2, C 71317 (180-68219-27) had the surrogates diluted out.

Method(s) 8270D LL: The following samples was diluted due to the nature of the sample matrix (viscous extracts and dark in color): W6, S1, C 071317 (180-68219-3) and its matrix spikes, W6, S2, C 071317 (180-68219-6), W6, S3, C 071317 (180-68219-9), W6, S4, C 071317 (180-68219-12), W6, S5, C 071317 (180-68219-15), W7, S4, C 71317 (180-68219-21), W8, S1, C 71317 (180-68219-33), W8, S2, C 71317 (180-68219-36), and DUP-10 (180-68219-54). Elevated reporting limits (RLs) are provided.

Job ID: 180-68219-1 (Continued)

Laboratory: TestAmerica Pittsburgh (Continued)

Method(s) 8270D LL: The matrix spike/matrix spike duplicate (MS/MSD) of sample W6, S1, C 071317 (180-68219-3) had several recoveries and RPDs between the spikes outside of the control limits. The recoveries of the laboratory control sample (LCS) were within the control limits.

Method(s) 8270D LL: The continuing calibration verification (CCV) analyzed in batch 180-217242 was above criteria for the following analyte: pentachlorophenol. As the CCV was high and this analyte was not detected in the associated samples, the results were reported.

Method(s) 8270D LL: The continuing calibration verification (CCV) analyzed in batch 180-217242 was below criteria for the following analyte: benzo[g,h,i]perylene. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte is considered estimated.

Method(s) 8270D LL: The continuing calibration verification (CCV) analyzed in 180-217155 was above criteria for the following analytes: 1,4-dioxane and pentachlorophenol. As the CCV was high and these analytes were not detected in the associated sample, the results were reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals
Method(s) 7471B: The RPD between the matrix spike/matrix spike duplicate (MS/MSD) of sample W6, S1, C 71317 (180-68219-3) was above the control limits for mercury. The recoveries were within the control limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance limits.
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
X	Surrogate is outside control limits
F2	MS/MSD RPD exceeds control limits
E	Result exceeded calibration range.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F2	MS/MSD RPD exceeds control limits
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

General Chemistry

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc. TestAmerica Job ID: 180-68219-1
Project/Site: Former Sperry Remington Site - North IRM

Laboratory: TestAmerica Pittsburgh

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	11182	03-31-18

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
2540G		Solid	Percent Moisture
2540G		Solid	Percent Solids
8270D LL	3541	Solid	1,4-Dioxane

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68219-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-68219-1	W6, S1, A 071317	Solid	07/13/17 08:00	07/14/17 13:15
180-68219-2	W6, S1, B 071317	Solid	07/13/17 08:05	07/14/17 13:15
180-68219-3	W6, S1, C 071317	Solid	07/13/17 08:10	07/14/17 13:15
180-68219-4	W6, S2, A 071317	Solid	07/13/17 08:20	07/14/17 13:15
180-68219-5	W6, S2, B 071317	Solid	07/13/17 08:25	07/14/17 13:15
180-68219-6	W6, S2, C 071317	Solid	07/13/17 08:30	07/14/17 13:15
180-68219-7	W6, S3, A 071317	Solid	07/13/17 08:45	07/14/17 13:15
180-68219-8	W6, S3, B 071317	Solid	07/13/17 08:50	07/14/17 13:15
180-68219-9	W6, S3, C 071317	Solid	07/13/17 08:55	07/15/17 09:15
180-68219-10	W6, S4, A 071317	Solid	07/13/17 09:15	07/14/17 13:15
180-68219-11	W6, S4, B 071317	Solid	07/13/17 09:20	07/14/17 13:15
180-68219-12	W6, S4, C 071317	Solid	07/13/17 09:25	07/14/17 13:15
180-68219-13	W6, S5, A 071317	Solid	07/13/17 09:45	07/14/17 13:15
180-68219-14	W6, S5, B 071317	Solid	07/13/17 09:55	07/14/17 13:15
180-68219-15	W6, S5, C 071317	Solid	07/13/17 10:00	07/14/17 13:15
180-68219-16	W7, S5, A 71317	Solid	07/13/17 10:15	07/14/17 13:15
180-68219-17	W7, S5, B 71317	Solid	07/13/17 10:20	07/14/17 13:15
180-68219-18	W7, S5, C 71317	Solid	07/13/17 10:25	07/14/17 13:15
180-68219-19	W7, S4, A 71317	Solid	07/13/17 10:45	07/14/17 13:15
180-68219-20	W7, S4, B 71317	Solid	07/13/17 10:50	07/14/17 13:15
180-68219-21	W7, S4, C 71317	Solid	07/13/17 10:55	07/14/17 13:15
180-68219-22	W7, S3, A 71317	Solid	07/13/17 11:30	07/14/17 13:15
180-68219-23	W7, S3, B 71317	Solid	07/13/17 11:35	07/14/17 13:15
180-68219-24	W7, S3, C 71317	Solid	07/13/17 11:40	07/14/17 13:15
180-68219-25	W7, S2, A 71317	Solid	07/13/17 11:55	07/14/17 13:15
180-68219-26	W7, S2, B 71317	Solid	07/13/17 12:00	07/14/17 13:15
180-68219-27	W7, S2, C 71317	Solid	07/13/17 12:05	07/14/17 13:15
180-68219-28	W7, S1, A 71317	Solid	07/13/17 12:15	07/14/17 13:15
180-68219-29	W7, S1, B 71317	Solid	07/13/17 12:20	07/14/17 13:15
180-68219-30	W7, S1, C 71317	Solid	07/13/17 12:25	07/14/17 13:15
180-68219-31	W8, S1, A 71317	Solid	07/13/17 12:45	07/14/17 13:15
180-68219-32	W8, S1, B 71317	Solid	07/13/17 12:50	07/14/17 13:15
180-68219-33	W8, S1, C 71317	Solid	07/13/17 12:55	07/14/17 13:15
180-68219-34	W8, S2, A 71317	Solid	07/13/17 13:15	07/14/17 13:15
180-68219-35	W8, S2, B 71317	Solid	07/13/17 13:20	07/14/17 13:15
180-68219-36	W8, S2, C 71317	Solid	07/13/17 13:25	07/14/17 13:15
180-68219-37	W8, S3, A 71317	Solid	07/13/17 13:45	07/14/17 13:15
180-68219-38	W8, S3, B 71317	Solid	07/13/17 13:50	07/14/17 13:15
180-68219-39	W8, S3, C 71317	Solid	07/13/17 13:55	07/14/17 13:15
180-68219-50	DUP-11	Solid	07/13/17 00:00	07/14/17 13:15
180-68219-51	DUP-12	Solid	07/13/17 00:00	07/14/17 13:15
180-68219-52	DUP-13	Solid	07/13/17 00:00	07/14/17 13:15
180-68219-53	DUP-9	Solid	07/13/17 00:00	07/14/17 13:15
180-68219-54	DUP-10	Solid	07/13/17 00:00	07/14/17 13:15
180-68219-55	TRIP BLANK 1	Water	07/13/17 00:00	07/14/17 13:15
180-68219-56	TRIP BLANK 2	Water	07/13/17 00:00	07/14/17 13:15
180-68219-57	TRIP BLANK 3	Water	07/13/17 00:00	07/14/17 13:15
180-68219-58	TRIP BLANK 4	Water	07/13/17 00:00	07/14/17 13:15

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68219-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL PIT
8260C	Volatile Organic Compounds (GC/MS)	SW846	TAL PIT
8270D LL	Semivolatile Organic Compounds by GC/MS - Low Level	SW846	TAL PIT
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL PIT
6010C	Metals (ICP)	SW846	TAL PIT
7471B	Mercury (CVAA)	SW846	TAL PIT
2540G	SM 2540G	SM22	TAL PIT
9014	Cyanide	SW846	TAL PIT

Protocol References:

SM22 = SM22

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68219-1

Client Sample ID: W6, S1, A 071317
Date Collected: 07/13/17 08:00
Date Received: 07/14/17 13:15

Lab Sample ID: 180-68219-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			217297	07/17/17 14:15	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W6, S1, A 071317
Date Collected: 07/13/17 08:00
Date Received: 07/14/17 13:15

Lab Sample ID: 180-68219-1
Matrix: Solid
Percent Solids: 92.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.8966 g	5 mL	217488	07/19/17 05:28	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	217471	07/19/17 08:52	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W6, S1, B 071317
Date Collected: 07/13/17 08:05
Date Received: 07/14/17 13:15

Lab Sample ID: 180-68219-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			217173	07/15/17 11:55	JWS	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W6, S1, B 071317
Date Collected: 07/13/17 08:05
Date Received: 07/14/17 13:15

Lab Sample ID: 180-68219-2
Matrix: Solid
Percent Solids: 91.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.7116 g	5 mL	217488	07/19/17 05:28	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	217471	07/19/17 09:39	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W6, S1, C 071317
Date Collected: 07/13/17 08:10
Date Received: 07/14/17 13:15

Lab Sample ID: 180-68219-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			217173	07/15/17 11:55	JWS	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W6, S1, C 071317
Date Collected: 07/13/17 08:10
Date Received: 07/14/17 13:15

Lab Sample ID: 180-68219-3
Matrix: Solid
Percent Solids: 94.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	0.5 mL	217139	07/15/17 04:42	BAP	TAL PIT

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68219-1

Client Sample ID: W6, S1, C 071317

Lab Sample ID: 180-68219-3
Date Collected: 07/13/17 08:10
Matrix: Solid
Date Received: 07/14/17 13:15
Percent Solids: 94.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8270D LL		3	1 mL	1 mL	217155	07/15/17 11:52	DLF	TAL PIT
	Instrument ID: CH71									
Total/NA	Prep	3541			15.3 g	20.0 mL	217194	07/16/17 13:30	MAL	TAL PIT
Total/NA	Analysis	8082A		1			217206	07/17/17 10:57	JMO	TAL PIT
	Instrument ID: CHGC10									
Total/NA	Cleanup	3665A			2 mL	2 mL	217332	07/18/17 06:49	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	217333	07/18/17 06:50	JMO	TAL PIT
Total/NA	Prep	3050B			1.01 g	100 mL	217374	07/18/17 10:32	ANA	TAL PIT
Total/NA	Analysis	6010C		1			217700	07/20/17 12:39	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.60 g	100 mL	217423	07/18/17 14:51	RJR	TAL PIT
Total/NA	Analysis	7471B		1			217578	07/19/17 12:36	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.12 g	50 mL	217382	07/18/17 10:56	JAS	TAL PIT
Total/NA	Analysis	9014		1			217445	07/18/17 14:30	JAS	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: W6, S2, A 071317

Lab Sample ID: 180-68219-4
Date Collected: 07/13/17 08:20
Matrix: Solid
Date Received: 07/14/17 13:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			217173	07/15/17 11:55	JWS	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W6, S2, A 071317

Lab Sample ID: 180-68219-4
Date Collected: 07/13/17 08:20
Matrix: Solid
Date Received: 07/14/17 13:15
Percent Solids: 90.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.3089 g	5 mL	217488	07/19/17 05:28	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	217471	07/19/17 10:52	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W6, S2, B 071317

Lab Sample ID: 180-68219-5
Date Collected: 07/13/17 08:25
Matrix: Solid
Date Received: 07/14/17 13:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			217173	07/15/17 11:55	JWS	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W6, S2, B 071317

Date Collected: 07/13/17 08:25
Date Received: 07/14/17 13:15

Lab Sample ID: 180-68219-5

Matrix: Solid
Percent Solids: 92.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.92 g	5 mL	217488	07/19/17 05:28	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	217471	07/19/17 11:15	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W6, S2, C 071317

Date Collected: 07/13/17 08:30
Date Received: 07/14/17 13:15

Lab Sample ID: 180-68219-6

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			217280	07/17/17 12:16	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W6, S2, C 071317

Date Collected: 07/13/17 08:30
Date Received: 07/14/17 13:15

Lab Sample ID: 180-68219-6

Matrix: Solid
Percent Solids: 88.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.2 g	0.5 mL	217139	07/15/17 04:42	BAP	TAL PIT
Total/NA	Analysis	8270D LL		3	1 mL	1 mL	217242	07/17/17 13:38	DLF	TAL PIT
	Instrument ID: CH71									
Total/NA	Prep	3541			15.0 g	20.0 mL	217194	07/16/17 13:30	MAL	TAL PIT
Total/NA	Analysis	8082A		1			217206	07/17/17 12:35	JMO	TAL PIT
	Instrument ID: CHGC10									
Total/NA	Cleanup	3665A			2 mL	2 mL	217332	07/18/17 06:49	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	217333	07/18/17 06:50	JMO	TAL PIT
Total/NA	Prep	3050B			1.05 g	100 mL	217374	07/18/17 10:32	ANA	TAL PIT
Total/NA	Analysis	6010C		1			217700	07/20/17 13:04	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.63 g	100 mL	217423	07/18/17 14:51	RJR	TAL PIT
Total/NA	Analysis	7471B		1			217578	07/19/17 12:46	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.03 g	50 mL	217382	07/18/17 10:56	JAS	TAL PIT
Total/NA	Analysis	9014		1			217445	07/18/17 14:35	JAS	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: W6, S3, A 071317

Date Collected: 07/13/17 08:45
Date Received: 07/14/17 13:15

Lab Sample ID: 180-68219-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			217297	07/17/17 14:15	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W6, S3, A 071317
Date Collected: 07/13/17 08:45
Date Received: 07/14/17 13:15

Lab Sample ID: 180-68219-7
Matrix: Solid
Percent Solids: 87.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.9168 g	5 mL	217488	07/19/17 05:28	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	217471	07/19/17 11:38	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W6, S3, B 071317
Date Collected: 07/13/17 08:50
Date Received: 07/14/17 13:15

Lab Sample ID: 180-68219-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			217297	07/17/17 14:15	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W6, S3, B 071317
Date Collected: 07/13/17 08:50
Date Received: 07/14/17 13:15

Lab Sample ID: 180-68219-8
Matrix: Solid
Percent Solids: 87.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.6099 g	5 mL	217488	07/19/17 05:28	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	217471	07/19/17 12:00	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W6, S3, C 071317
Date Collected: 07/13/17 08:55
Date Received: 07/15/17 09:15

Lab Sample ID: 180-68219-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			217280	07/17/17 12:16	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W6, S3, C 071317
Date Collected: 07/13/17 08:55
Date Received: 07/15/17 09:15

Lab Sample ID: 180-68219-9
Matrix: Solid
Percent Solids: 88.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.1 g	0.5 mL	217195	07/16/17 13:37	MAL	TAL PIT
Total/NA	Analysis	8270D LL		10	1 mL	1 mL	217231	07/17/17 12:37	VVP	TAL PIT
	Instrument ID: CH733									
Total/NA	Prep	3541			15.2 g	20.0 mL	217194	07/16/17 13:30	MAL	TAL PIT
Total/NA	Analysis	8082A		1			217206	07/17/17 12:55	JMO	TAL PIT
	Instrument ID: CHGC10									
Total/NA	Cleanup	3665A			2 mL	2 mL	217332	07/18/17 06:49	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	217333	07/18/17 06:50	JMO	TAL PIT
Total/NA	Prep	3050B			1.02 g	100 mL	217374	07/18/17 10:32	ANA	TAL PIT

Client Sample ID: W6, S3, C 071317

Lab Sample ID: 180-68219-9
Date Collected: 07/13/17 08:55
Matrix: Solid
Date Received: 07/15/17 09:15
Percent Solids: 88.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	6010C		1			217700	07/20/17 13:10	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.57 g	100 mL	217423	07/18/17 14:51	RJR	TAL PIT
Total/NA	Analysis	7471B		1			217578	07/19/17 13:14	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.1 g	50 mL	217382	07/18/17 10:56	JAS	TAL PIT
Total/NA	Analysis	9014		1			217445	07/18/17 14:37	JAS	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: W6, S4, A 071317

Lab Sample ID: 180-68219-10
Date Collected: 07/13/17 09:15
Matrix: Solid
Date Received: 07/14/17 13:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			217297	07/17/17 14:15	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W6, S4, A 071317

Lab Sample ID: 180-68219-10
Date Collected: 07/13/17 09:15
Matrix: Solid
Date Received: 07/14/17 13:15
Percent Solids: 90.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.0717 g	5 mL	217488	07/19/17 05:28	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	217471	07/19/17 12:23	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W6, S4, B 071317

Lab Sample ID: 180-68219-11
Date Collected: 07/13/17 09:20
Matrix: Solid
Date Received: 07/14/17 13:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			217297	07/17/17 14:15	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W6, S4, B 071317

Lab Sample ID: 180-68219-11
Date Collected: 07/13/17 09:20
Matrix: Solid
Date Received: 07/14/17 13:15
Percent Solids: 87.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.6079 g	5 mL	217488	07/19/17 05:28	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	217471	07/19/17 12:46	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W6, S4, C 071317
Lab Sample ID: 180-68219-12
Date Collected: 07/13/17 09:25
Matrix: Solid
Date Received: 07/14/17 13:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			217297	07/17/17 14:15	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W6, S4, C 071317
Lab Sample ID: 180-68219-12
Date Collected: 07/13/17 09:25
Matrix: Solid
Date Received: 07/14/17 13:15
Percent Solids: 90.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.2 g	0.5 mL	217309	07/18/17 03:38	BAP	TAL PIT
Total/NA	Analysis	8270D LL		4	1 mL	1 mL	217354	07/18/17 18:02	VVP	TAL PIT
	Instrument ID: CH733									
Total/NA	Prep	3541			15.3 g	20.0 mL	217313	07/18/17 03:42	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	217365	07/18/17 10:10	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	217366	07/18/17 10:11	JMO	TAL PIT
Total/NA	Analysis	8082A		1	1 mL	1.0 mL	217334	07/18/17 10:46	JMO	TAL PIT
	Instrument ID: CHGC10									
Total/NA	Prep	3050B			0.98 g	100 mL	217374	07/18/17 10:32	ANA	TAL PIT
Total/NA	Analysis	6010C		1			217700	07/20/17 13:15	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.59 g	100 mL	217423	07/18/17 14:51	RJR	TAL PIT
Total/NA	Analysis	7471B		1			217578	07/19/17 12:48	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.09 g	50 mL	217382	07/18/17 10:56	JAS	TAL PIT
Total/NA	Analysis	9014		1			217445	07/18/17 14:42	JAS	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: W6, S5, A 071317
Lab Sample ID: 180-68219-13
Date Collected: 07/13/17 09:45
Matrix: Solid
Date Received: 07/14/17 13:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			217297	07/17/17 14:15	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W6, S5, A 071317
Lab Sample ID: 180-68219-13
Date Collected: 07/13/17 09:45
Matrix: Solid
Date Received: 07/14/17 13:15
Percent Solids: 91.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.5737 g	5 mL	217616	07/20/17 05:54	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	217610	07/20/17 11:31	KLG	TAL PIT
	Instrument ID: CHHP3									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68219-1

Client Sample ID: W6, S5, B 071317
Date Collected: 07/13/17 09:55
Date Received: 07/14/17 13:15

Lab Sample ID: 180-68219-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			217297	07/17/17 14:15	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W6, S5, B 071317
Date Collected: 07/13/17 09:55
Date Received: 07/14/17 13:15

Lab Sample ID: 180-68219-14
Matrix: Solid
Percent Solids: 90.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.2959 g	5 mL	217616	07/20/17 05:54	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	217610	07/20/17 11:09	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W6, S5, C 071317
Date Collected: 07/13/17 10:00
Date Received: 07/14/17 13:15

Lab Sample ID: 180-68219-15
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			217280	07/17/17 12:16	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W6, S5, C 071317
Date Collected: 07/13/17 10:00
Date Received: 07/14/17 13:15

Lab Sample ID: 180-68219-15
Matrix: Solid
Percent Solids: 91.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.4 g	0.5 mL	217139	07/15/17 04:42	BAP	TAL PIT
Total/NA	Analysis	8270D LL		4	1 mL	1 mL	217242	07/17/17 14:06	DLF	TAL PIT
	Instrument ID: CH71									
Total/NA	Prep	3541			15.0 g	20.0 mL	217194	07/16/17 13:30	MAL	TAL PIT
Total/NA	Analysis	8082A		1			217206	07/17/17 13:16	JMO	TAL PIT
	Instrument ID: CHGC10									
Total/NA	Cleanup	3665A			2 mL	2 mL	217332	07/18/17 06:49	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	217333	07/18/17 06:50	JMO	TAL PIT
Total/NA	Prep	3050B			1.00 g	100 mL	217374	07/18/17 10:32	ANA	TAL PIT
Total/NA	Analysis	6010C		1			217700	07/20/17 13:30	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.62 g	100 mL	217423	07/18/17 14:51	RJR	TAL PIT
Total/NA	Analysis	7471B		1			217578	07/19/17 12:50	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.13 g	50 mL	217382	07/18/17 10:56	JAS	TAL PIT
Total/NA	Analysis	9014		1			217445	07/18/17 14:44	JAS	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: W7, S5, A 71317
Date Collected: 07/13/17 10:15
Date Received: 07/14/17 13:15

Lab Sample ID: 180-68219-16
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			217297	07/17/17 14:15	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W7, S5, A 71317
Date Collected: 07/13/17 10:15
Date Received: 07/14/17 13:15

Lab Sample ID: 180-68219-16
Matrix: Solid
Percent Solids: 92.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.519 g	5 mL	217616	07/20/17 05:54	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	217610	07/20/17 10:46	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W7, S5, B 71317
Date Collected: 07/13/17 10:20
Date Received: 07/14/17 13:15

Lab Sample ID: 180-68219-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			217297	07/17/17 14:15	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W7, S5, B 71317
Date Collected: 07/13/17 10:20
Date Received: 07/14/17 13:15

Lab Sample ID: 180-68219-17
Matrix: Solid
Percent Solids: 93.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.8844 g	5 mL	217616	07/20/17 05:54	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	217610	07/20/17 10:23	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W7, S5, C 71317
Date Collected: 07/13/17 10:25
Date Received: 07/14/17 13:15

Lab Sample ID: 180-68219-18
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			217280	07/17/17 12:16	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W7, S5, C 71317
Date Collected: 07/13/17 10:25
Date Received: 07/14/17 13:15

Lab Sample ID: 180-68219-18
Matrix: Solid
Percent Solids: 91.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.5 g	0.5 mL	217139	07/15/17 04:42	BAP	TAL PIT

Client Sample ID: W7, S5, C 71317

Lab Sample ID: 180-68219-18
Date Collected: 07/13/17 10:25
Matrix: Solid
Date Received: 07/14/17 13:15
Percent Solids: 91.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8270D LL		1	1 mL	1 mL	217242	07/17/17 14:33	DLF	TAL PIT
	Instrument ID: CH71									
Total/NA	Prep	3541			15.2 g	20.0 mL	217194	07/16/17 13:30	MAL	TAL PIT
Total/NA	Analysis	8082A		1			217206	07/17/17 13:36	JMO	TAL PIT
	Instrument ID: CHGC10									
Total/NA	Cleanup	3665A			2 mL	2 mL	217332	07/18/17 06:49	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	217333	07/18/17 06:50	JMO	TAL PIT
Total/NA	Prep	3050B			0.95 g	100 mL	217374	07/18/17 10:32	ANA	TAL PIT
Total/NA	Analysis	6010C		1			217700	07/20/17 13:35	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.57 g	100 mL	217423	07/18/17 14:51	RJR	TAL PIT
Total/NA	Analysis	7471B		1			217578	07/19/17 12:52	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.04 g	50 mL	217382	07/18/17 10:56	JAS	TAL PIT
Total/NA	Analysis	9014		1			217445	07/18/17 14:45	JAS	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: W7, S4, A 71317

Lab Sample ID: 180-68219-19
Date Collected: 07/13/17 10:45
Matrix: Solid
Date Received: 07/14/17 13:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			217297	07/17/17 14:15	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W7, S4, A 71317

Lab Sample ID: 180-68219-19
Date Collected: 07/13/17 10:45
Matrix: Solid
Date Received: 07/14/17 13:15
Percent Solids: 93.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.5914 g	5 mL	217616	07/20/17 05:54	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	217610	07/20/17 10:01	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W7, S4, B 71317

Lab Sample ID: 180-68219-20
Date Collected: 07/13/17 10:50
Matrix: Solid
Date Received: 07/14/17 13:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			217297	07/17/17 14:15	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68219-1

Client Sample ID: W7, S4, B 71317

Date Collected: 07/13/17 10:50
Date Received: 07/14/17 13:15

Lab Sample ID: 180-68219-20

Matrix: Solid
Percent Solids: 92.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.5179 g	5 mL	217488	07/19/17 05:28	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	217471	07/19/17 16:57	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W7, S4, C 71317

Date Collected: 07/13/17 10:55
Date Received: 07/14/17 13:15

Lab Sample ID: 180-68219-21

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			217297	07/17/17 14:15	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W7, S4, C 71317

Date Collected: 07/13/17 10:55
Date Received: 07/14/17 13:15

Lab Sample ID: 180-68219-21

Matrix: Solid
Percent Solids: 91.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.4 g	0.5 mL	217309	07/18/17 03:38	BAP	TAL PIT
Total/NA	Analysis	8270D LL		5	1 mL	1 mL	217354	07/18/17 19:23	VVP	TAL PIT
	Instrument ID: CH733									
Total/NA	Prep	3541			15.2 g	20.0 mL	217313	07/18/17 03:42	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	217365	07/18/17 10:10	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	217366	07/18/17 10:11	JMO	TAL PIT
Total/NA	Analysis	8082A		1	1 mL	1.0 mL	217334	07/18/17 11:07	JMO	TAL PIT
	Instrument ID: CHGC10									
Total/NA	Prep	3050B			1.00 g	100 mL	217374	07/18/17 10:32	ANA	TAL PIT
Total/NA	Analysis	6010C		1			217700	07/20/17 13:41	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.58 g	100 mL	217423	07/18/17 14:51	RJR	TAL PIT
Total/NA	Analysis	7471B		1			217578	07/19/17 12:54	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.05 g	50 mL	217382	07/18/17 10:56	JAS	TAL PIT
Total/NA	Analysis	9014		1			217445	07/18/17 14:47	JAS	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: W7, S3, A 71317

Date Collected: 07/13/17 11:30
Date Received: 07/14/17 13:15

Lab Sample ID: 180-68219-22

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			217297	07/17/17 14:15	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W7, S3, A 71317

Lab Sample ID: 180-68219-22
Date Collected: 07/13/17 11:30
Matrix: Solid
Date Received: 07/14/17 13:15
Percent Solids: 90.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.529 g	5 mL	217488	07/19/17 05:28	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	217471	07/19/17 16:34	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W7, S3, B 71317

Lab Sample ID: 180-68219-23
Date Collected: 07/13/17 11:35
Matrix: Solid
Date Received: 07/14/17 13:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			217297	07/17/17 14:15	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W7, S3, B 71317

Lab Sample ID: 180-68219-23
Date Collected: 07/13/17 11:35
Matrix: Solid
Date Received: 07/14/17 13:15
Percent Solids: 89.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.2191 g	5 mL	217488	07/19/17 05:28	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	217471	07/19/17 16:11	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W7, S3, C 71317

Lab Sample ID: 180-68219-24
Date Collected: 07/13/17 11:40
Matrix: Solid
Date Received: 07/14/17 13:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			217280	07/17/17 12:16	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W7, S3, C 71317

Lab Sample ID: 180-68219-24
Date Collected: 07/13/17 11:40
Matrix: Solid
Date Received: 07/14/17 13:15
Percent Solids: 89.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.1 g	0.5 mL	217139	07/15/17 04:42	BAP	TAL PIT
Total/NA	Analysis	8270D LL		1	1 mL	1 mL	217242	07/17/17 15:01	DLF	TAL PIT
	Instrument ID: CH71									
Total/NA	Prep	3541			15.0 g	20.0 mL	217194	07/16/17 13:30	MAL	TAL PIT
Total/NA	Analysis	8082A		1			217206	07/17/17 13:56	JMO	TAL PIT
	Instrument ID: CHGC10									
Total/NA	Cleanup	3665A			2 mL	2 mL	217332	07/18/17 06:49	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	217333	07/18/17 06:50	JMO	TAL PIT
Total/NA	Prep	3050B			0.94 g	100 mL	217374	07/18/17 10:32	ANA	TAL PIT

Client Sample ID: W7, S3, C 71317

Lab Sample ID: 180-68219-24
Date Collected: 07/13/17 11:40
Matrix: Solid
Date Received: 07/14/17 13:15
Percent Solids: 89.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	6010C		1			217700	07/20/17 13:46	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.52 g	100 mL	217423	07/18/17 14:51	RJR	TAL PIT
Total/NA	Analysis	7471B		1			217578	07/19/17 12:56	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.11 g	50 mL	217382	07/18/17 10:56	JAS	TAL PIT
Total/NA	Analysis	9014		1			217445	07/18/17 14:49	JAS	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: W7, S2, A 71317

Lab Sample ID: 180-68219-25
Date Collected: 07/13/17 11:55
Matrix: Solid
Date Received: 07/14/17 13:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			217297	07/17/17 14:15	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W7, S2, A 71317

Lab Sample ID: 180-68219-25
Date Collected: 07/13/17 11:55
Matrix: Solid
Date Received: 07/14/17 13:15
Percent Solids: 90.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.6714 g	5 mL	217488	07/19/17 05:28	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	217471	07/19/17 15:48	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W7, S2, B 71317

Lab Sample ID: 180-68219-26
Date Collected: 07/13/17 12:00
Matrix: Solid
Date Received: 07/14/17 13:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			217297	07/17/17 14:15	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W7, S2, B 71317

Lab Sample ID: 180-68219-26
Date Collected: 07/13/17 12:00
Matrix: Solid
Date Received: 07/14/17 13:15
Percent Solids: 87.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.4709 g	5 mL	217488	07/19/17 05:28	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	217471	07/19/17 15:26	KLG	TAL PIT
	Instrument ID: CHHP3									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68219-1

Client Sample ID: W7, S2, C 71317
Date Collected: 07/13/17 12:05
Date Received: 07/14/17 13:15

Lab Sample ID: 180-68219-27
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			217280	07/17/17 12:16	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W7, S2, C 71317
Date Collected: 07/13/17 12:05
Date Received: 07/14/17 13:15

Lab Sample ID: 180-68219-27
Matrix: Solid
Percent Solids: 89.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	0.5 mL	217139	07/15/17 04:42	BAP	TAL PIT
Total/NA	Analysis	8270D LL		100	1 mL	1 mL	217242	07/17/17 15:28	DLF	TAL PIT
	Instrument ID: CH71									
Total/NA	Prep	3541			15.3 g	20.0 mL	217194	07/16/17 13:30	MAL	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	217332	07/18/17 06:49	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	217333	07/18/17 06:50	JMO	TAL PIT
Total/NA	Analysis	8082A		1	1 mL	1.0 mL	217334	07/18/17 09:07	JMO	TAL PIT
	Instrument ID: CHGC10									
Total/NA	Prep	3050B			1.06 g	100 mL	217374	07/18/17 10:32	ANA	TAL PIT
Total/NA	Analysis	6010C		1			217700	07/20/17 13:51	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.67 g	100 mL	217423	07/18/17 14:51	RJR	TAL PIT
Total/NA	Analysis	7471B		1			217578	07/19/17 12:58	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.13 g	50 mL	217382	07/18/17 10:56	JAS	TAL PIT
Total/NA	Analysis	9014		1			217445	07/18/17 14:51	JAS	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: W7, S1, A 71317
Date Collected: 07/13/17 12:15
Date Received: 07/14/17 13:15

Lab Sample ID: 180-68219-28
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			217297	07/17/17 14:15	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W7, S1, A 71317
Date Collected: 07/13/17 12:15
Date Received: 07/14/17 13:15

Lab Sample ID: 180-68219-28
Matrix: Solid
Percent Solids: 90.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			7.2795 g	5 mL	217488	07/19/17 05:28	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	217471	07/19/17 15:02	KLG	TAL PIT
	Instrument ID: CHHP3									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68219-1

Client Sample ID: W7, S1, B 71317
Date Collected: 07/13/17 12:20
Date Received: 07/14/17 13:15

Lab Sample ID: 180-68219-29
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			217301	07/17/17 15:21	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W7, S1, B 71317
Date Collected: 07/13/17 12:20
Date Received: 07/14/17 13:15

Lab Sample ID: 180-68219-29
Matrix: Solid
Percent Solids: 91.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			7.2832 g	5 mL	217488	07/19/17 05:28	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	217471	07/19/17 14:40	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W7, S1, C 71317
Date Collected: 07/13/17 12:25
Date Received: 07/14/17 13:15

Lab Sample ID: 180-68219-30
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			217280	07/17/17 12:16	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W7, S1, C 71317
Date Collected: 07/13/17 12:25
Date Received: 07/14/17 13:15

Lab Sample ID: 180-68219-30
Matrix: Solid
Percent Solids: 90.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.3 g	0.5 mL	217139	07/15/17 04:42	BAP	TAL PIT
Total/NA	Analysis	8270D LL		10	1 mL	1 mL	217242	07/17/17 15:56	DLF	TAL PIT
	Instrument ID: CH71									
Total/NA	Prep	3541			15.2 g	20.0 mL	217194	07/16/17 13:30	MAL	TAL PIT
Total/NA	Analysis	8082A		1			217206	07/17/17 14:36	JMO	TAL PIT
	Instrument ID: CHGC10									
Total/NA	Cleanup	3665A			2 mL	2 mL	217332	07/18/17 06:49	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	217333	07/18/17 06:50	JMO	TAL PIT
Total/NA	Prep	3050B			0.96 g	100 mL	217374	07/18/17 10:32	ANA	TAL PIT
Total/NA	Analysis	6010C		1			217700	07/20/17 13:56	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.58 g	100 mL	217423	07/18/17 14:51	RJR	TAL PIT
Total/NA	Analysis	7471B		1			217578	07/19/17 13:00	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.14 g	50 mL	217386	07/18/17 10:56	JAS	TAL PIT
Total/NA	Analysis	9014		1			217445	07/18/17 15:03	JAS	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: W8, S1, A 71317 — **Lab Sample ID: 180-68219-31**
Date Collected: 07/13/17 12:45 — **Matrix: Solid**
Date Received: 07/14/17 13:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			217301	07/17/17 15:21	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W8, S1, A 71317 — **Lab Sample ID: 180-68219-31**
Date Collected: 07/13/17 12:45 — **Matrix: Solid**
Date Received: 07/14/17 13:15 — **Percent Solids: 88.6**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			7.2532 g	5 mL	217488	07/19/17 05:28	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	217471	07/19/17 14:17	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W8, S1, B 71317 — **Lab Sample ID: 180-68219-32**
Date Collected: 07/13/17 12:50 — **Matrix: Solid**
Date Received: 07/14/17 13:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			217301	07/17/17 15:21	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W8, S1, B 71317 — **Lab Sample ID: 180-68219-32**
Date Collected: 07/13/17 12:50 — **Matrix: Solid**
Date Received: 07/14/17 13:15 — **Percent Solids: 91.5**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.761 g	5 mL	217488	07/19/17 05:28	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	217471	07/19/17 13:54	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W8, S1, C 71317 — **Lab Sample ID: 180-68219-33**
Date Collected: 07/13/17 12:55 — **Matrix: Solid**
Date Received: 07/14/17 13:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			217280	07/17/17 12:16	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W8, S1, C 71317 — **Lab Sample ID: 180-68219-33**
Date Collected: 07/13/17 12:55 — **Matrix: Solid**
Date Received: 07/14/17 13:15 — **Percent Solids: 90.6**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.4 g	0.5 mL	217139	07/15/17 04:42	BAP	TAL PIT

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68219-1

Client Sample ID: W8, S1, C 71317

Lab Sample ID: 180-68219-33
Date Collected: 07/13/17 12:55
Matrix: Solid
Date Received: 07/14/17 13:15
Percent Solids: 90.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8270D LL		5	1 mL	1 mL	217242	07/17/17 16:23	DLF	TAL PIT
	Instrument ID: CH71									
Total/NA	Prep	3541			15.3 g	20.0 mL	217194	07/16/17 13:30	MAL	TAL PIT
Total/NA	Analysis	8082A		1			217206	07/17/17 14:57	JMO	TAL PIT
	Instrument ID: CHGC10									
Total/NA	Cleanup	3665A			2 mL	2 mL	217332	07/18/17 06:49	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	217333	07/18/17 06:50	JMO	TAL PIT
Total/NA	Prep	3050B			1.04 g	100 mL	217374	07/18/17 10:32	ANA	TAL PIT
Total/NA	Analysis	6010C		1			217700	07/20/17 14:01	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.55 g	100 mL	217423	07/18/17 14:51	RJR	TAL PIT
Total/NA	Analysis	7471B		1			217578	07/19/17 13:02	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.15 g	50 mL	217386	07/18/17 10:56	JAS	TAL PIT
Total/NA	Analysis	9014		1			217445	07/18/17 15:08	JAS	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: W8, S2, A 71317

Lab Sample ID: 180-68219-34
Date Collected: 07/13/17 13:15
Matrix: Solid
Date Received: 07/14/17 13:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			217301	07/17/17 15:21	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W8, S2, A 71317

Lab Sample ID: 180-68219-34
Date Collected: 07/13/17 13:15
Matrix: Solid
Date Received: 07/14/17 13:15
Percent Solids: 90.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			7.3396 g	5 mL	217616	07/20/17 05:54	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	217610	07/20/17 09:38	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W8, S2, B 71317

Lab Sample ID: 180-68219-35
Date Collected: 07/13/17 13:20
Matrix: Solid
Date Received: 07/14/17 13:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			217301	07/17/17 15:21	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68219-1

Client Sample ID: W8, S2, B 71317

Lab Sample ID: 180-68219-35
Date Collected: 07/13/17 13:20
Matrix: Solid
Date Received: 07/14/17 13:15
Percent Solids: 90.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.8924 g	5 mL	217488	07/19/17 05:28	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	217471	07/19/17 13:31	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W8, S2, C 71317

Lab Sample ID: 180-68219-36
Date Collected: 07/13/17 13:25
Matrix: Solid
Date Received: 07/14/17 13:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			217280	07/17/17 12:16	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W8, S2, C 71317

Lab Sample ID: 180-68219-36
Date Collected: 07/13/17 13:25
Matrix: Solid
Date Received: 07/14/17 13:15
Percent Solids: 90.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	0.5 mL	217139	07/15/17 04:42	BAP	TAL PIT
Total/NA	Analysis	8270D LL		5	1 mL	1 mL	217242	07/17/17 16:51	DLF	TAL PIT
	Instrument ID: CH71									
Total/NA	Prep	3541			15.0 g	20.0 mL	217194	07/16/17 13:30	MAL	TAL PIT
Total/NA	Analysis	8082A		1			217206	07/17/17 15:17	JMO	TAL PIT
	Instrument ID: CHGC10									
Total/NA	Cleanup	3665A			2 mL	2 mL	217332	07/18/17 06:49	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	217333	07/18/17 06:50	JMO	TAL PIT
Total/NA	Prep	3050B			1.05 g	100 mL	217374	07/18/17 10:32	ANA	TAL PIT
Total/NA	Analysis	6010C		1			217700	07/20/17 14:06	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.60 g	100 mL	217423	07/18/17 14:51	RJR	TAL PIT
Total/NA	Analysis	7471B		1			217578	07/19/17 13:08	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.02 g	50 mL	217386	07/18/17 10:56	JAS	TAL PIT
Total/NA	Analysis	9014		1			217445	07/18/17 15:10	JAS	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: W8, S3, A 71317

Lab Sample ID: 180-68219-37
Date Collected: 07/13/17 13:45
Matrix: Solid
Date Received: 07/14/17 13:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			217301	07/17/17 15:21	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W8, S3, A 71317
Date Collected: 07/13/17 13:45
Date Received: 07/14/17 13:15

Lab Sample ID: 180-68219-37
Matrix: Solid
Percent Solids: 90.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.3171 g	5 mL	217220	07/17/17 05:28	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	217209	07/17/17 18:06	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W8, S3, B 71317
Date Collected: 07/13/17 13:50
Date Received: 07/14/17 13:15

Lab Sample ID: 180-68219-38
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			217301	07/17/17 15:21	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W8, S3, B 71317
Date Collected: 07/13/17 13:50
Date Received: 07/14/17 13:15

Lab Sample ID: 180-68219-38
Matrix: Solid
Percent Solids: 91.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.057 g	5 mL	217220	07/17/17 05:28	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	217209	07/17/17 11:15	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W8, S3, C 71317
Date Collected: 07/13/17 13:55
Date Received: 07/14/17 13:15

Lab Sample ID: 180-68219-39
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			217280	07/17/17 12:16	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W8, S3, C 71317
Date Collected: 07/13/17 13:55
Date Received: 07/14/17 13:15

Lab Sample ID: 180-68219-39
Matrix: Solid
Percent Solids: 86.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.1 g	0.5 mL	217195	07/16/17 13:37	MAL	TAL PIT
Total/NA	Analysis	8270D LL		2	1 mL	1 mL	217231	07/17/17 13:03	VVP	TAL PIT
	Instrument ID: CH733									
Total/NA	Prep	3541	DL		15.1 g	0.5 mL	217195	07/16/17 13:37	MAL	TAL PIT
Total/NA	Analysis	8270D LL	DL	10	1 mL	1 mL	217354	07/18/17 16:15	VVP	TAL PIT
	Instrument ID: CH733									
Total/NA	Prep	3541			15.3 g	20.0 mL	217194	07/16/17 13:30	MAL	TAL PIT
Total/NA	Analysis	8082A		1			217206	07/17/17 15:37	JMO	TAL PIT
	Instrument ID: CHGC10									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68219-1

Client Sample ID: W8, S3, C 71317

Lab Sample ID: 180-68219-39
Date Collected: 07/13/17 13:55
Matrix: Solid
Date Received: 07/14/17 13:15
Percent Solids: 86.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Cleanup	3665A			2 mL	2 mL	217332	07/18/17 06:49	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	217333	07/18/17 06:50	JMO	TAL PIT
Total/NA	Prep	3050B			0.97 g	100 mL	217374	07/18/17 10:32	ANA	TAL PIT
Total/NA	Analysis	6010C		1			217700	07/20/17 14:11	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.63 g	100 mL	217423	07/18/17 14:51	RJR	TAL PIT
Total/NA	Analysis	7471B		1			217578	07/19/17 13:10	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.07 g	50 mL	217386	07/18/17 10:56	JAS	TAL PIT
Total/NA	Analysis	9014		1			217445	07/18/17 15:11	JAS	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: DUP-11

Lab Sample ID: 180-68219-50
Date Collected: 07/13/17 00:00
Matrix: Solid
Date Received: 07/14/17 13:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			217301	07/17/17 15:21	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: DUP-11

Lab Sample ID: 180-68219-50
Date Collected: 07/13/17 00:00
Matrix: Solid
Date Received: 07/14/17 13:15
Percent Solids: 92.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.1289 g	5 mL	217331	07/18/17 06:00	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	217322	07/18/17 12:38	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: DUP-12

Lab Sample ID: 180-68219-51
Date Collected: 07/13/17 00:00
Matrix: Solid
Date Received: 07/14/17 13:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			217301	07/17/17 15:21	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: DUP-12

Lab Sample ID: 180-68219-51
Date Collected: 07/13/17 00:00
Matrix: Solid
Date Received: 07/14/17 13:15
Percent Solids: 92.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.6554 g	5 mL	217331	07/18/17 06:00	KLG	TAL PIT

Client Sample ID: DUP-12
Date Collected: 07/13/17 00:00
Date Received: 07/14/17 13:15

Lab Sample ID: 180-68219-51
Matrix: Solid
Percent Solids: 92.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	217322	07/18/17 13:01	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: DUP-13
Date Collected: 07/13/17 00:00
Date Received: 07/14/17 13:15

Lab Sample ID: 180-68219-52
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			217301	07/17/17 15:21	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: DUP-13
Date Collected: 07/13/17 00:00
Date Received: 07/14/17 13:15

Lab Sample ID: 180-68219-52
Matrix: Solid
Percent Solids: 91.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.3775 g	5 mL	217331	07/18/17 06:00	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	217322	07/18/17 13:23	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: DUP-9
Date Collected: 07/13/17 00:00
Date Received: 07/14/17 13:15

Lab Sample ID: 180-68219-53
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			217301	07/17/17 15:21	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: DUP-9
Date Collected: 07/13/17 00:00
Date Received: 07/14/17 13:15

Lab Sample ID: 180-68219-53
Matrix: Solid
Percent Solids: 87.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.0237 g	5 mL	217488	07/19/17 05:28	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	217471	07/19/17 09:15	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: DUP-10
Date Collected: 07/13/17 00:00
Date Received: 07/14/17 13:15

Lab Sample ID: 180-68219-54
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			217280	07/17/17 12:16	JTL	TAL PIT

Client Sample ID: DUP-10
Date Collected: 07/13/17 00:00
Date Received: 07/14/17 13:15

Lab Sample ID: 180-68219-54
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			217280	07/17/17 12:16	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: DUP-10
Date Collected: 07/13/17 00:00
Date Received: 07/14/17 13:15

Lab Sample ID: 180-68219-54
Matrix: Solid
Percent Solids: 87.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.1 g	0.5 mL	217195	07/16/17 13:37	MAL	TAL PIT
Total/NA	Analysis	8270D LL		5	1 mL	1 mL	217231	07/17/17 13:30	VVP	TAL PIT
	Instrument ID: CH733									
Total/NA	Prep	3541			15.2 g	20.0 mL	217194	07/16/17 13:30	MAL	TAL PIT
Total/NA	Analysis	8082A		1			217206	07/17/17 15:57	JMO	TAL PIT
	Instrument ID: CHGC10									
Total/NA	Cleanup	3665A			2 mL	2 mL	217332	07/18/17 06:49	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	217333	07/18/17 06:50	JMO	TAL PIT
Total/NA	Prep	3050B			1.05 g	100 mL	217374	07/18/17 10:32	ANA	TAL PIT
Total/NA	Analysis	6010C		1			217700	07/20/17 14:16	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.62 g	100 mL	217423	07/18/17 14:51	RJR	TAL PIT
Total/NA	Analysis	7471B		1			217578	07/19/17 13:12	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.03 g	50 mL	217386	07/18/17 10:56	JAS	TAL PIT
Total/NA	Analysis	9014		1			217445	07/18/17 15:13	JAS	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: TRIP BLANK 1
Date Collected: 07/13/17 00:00
Date Received: 07/14/17 13:15

Lab Sample ID: 180-68219-55
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	217455	07/19/17 16:09	FBB	TAL PIT
	Instrument ID: CHHP6									

Client Sample ID: TRIP BLANK 2
Date Collected: 07/13/17 00:00
Date Received: 07/14/17 13:15

Lab Sample ID: 180-68219-56
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	217455	07/19/17 16:33	FBB	TAL PIT
	Instrument ID: CHHP6									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68219-1

Client Sample ID: TRIP BLANK 3

Lab Sample ID: 180-68219-57
Matrix: Water
Date Collected: 07/13/17 00:00
Date Received: 07/14/17 13:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	217455	07/19/17 16:57	FBB	TAL PIT
	Instrument ID: CHHP6									

Client Sample ID: TRIP BLANK 4

Lab Sample ID: 180-68219-58
Matrix: Water
Date Collected: 07/13/17 00:00
Date Received: 07/14/17 13:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	217455	07/19/17 17:22	FBB	TAL PIT
	Instrument ID: CHHP6									

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Analyst References:

Lab: TAL PIT

Batch Type: Cleanup

JMO = John Oravec

Batch Type: Prep

ANA = Alexis Anderson

BAP = Brian Pino

JAS = Joshua Schmidt

KLG = Kathy Gordon

MAL = Michael Lonzo

RJR = Ron Rosenbaum

Batch Type: Analysis

DLF = Donald Ferguson

FBB = Frank Bungard

JAS = Joshua Schmidt

JMO = John Oravec

JTL = Justin Landry

JWS = Jim Swanson

KLG = Kathy Gordon

RJG = Rob Good

RJR = Ron Rosenbaum

VVP = Vincent Piccolino

Client Sample ID: W6, S1, A 071317

Date Collected: 07/13/17 08:00
Date Received: 07/14/17 13:15

Lab Sample ID: 180-68219-1

Matrix: Solid
Percent Solids: 92.4

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.018	0.0029	mg/Kg	☼	07/19/17 05:28	07/19/17 08:52	1
Benzene	ND		0.0046	0.0018	mg/Kg	☼	07/19/17 05:28	07/19/17 08:52	1
2-Butanone (MEK)	ND		0.0046	0.0027	mg/Kg	☼	07/19/17 05:28	07/19/17 08:52	1
Carbon tetrachloride	ND		0.0046	0.0030	mg/Kg	☼	07/19/17 05:28	07/19/17 08:52	1
Chlorobenzene	ND		0.0046	0.0014	mg/Kg	☼	07/19/17 05:28	07/19/17 08:52	1
Chloroform	ND		0.0046	0.0019	mg/Kg	☼	07/19/17 05:28	07/19/17 08:52	1
cis-1,2-Dichloroethene	ND		0.0046	0.0014	mg/Kg	☼	07/19/17 05:28	07/19/17 08:52	1
1,2-Dichlorobenzene	ND		0.0046	0.0037	mg/Kg	☼	07/19/17 05:28	07/19/17 08:52	1
1,3-Dichlorobenzene	ND		0.0046	0.0015	mg/Kg	☼	07/19/17 05:28	07/19/17 08:52	1
1,4-Dichlorobenzene	ND		0.0046	0.00094	mg/Kg	☼	07/19/17 05:28	07/19/17 08:52	1
1,1-Dichloroethane	ND		0.0046	0.0017	mg/Kg	☼	07/19/17 05:28	07/19/17 08:52	1
1,2-Dichloroethane	ND		0.0046	0.0013	mg/Kg	☼	07/19/17 05:28	07/19/17 08:52	1
1,1-Dichloroethene	ND		0.0046	0.0026	mg/Kg	☼	07/19/17 05:28	07/19/17 08:52	1
Ethylbenzene	ND		0.0046	0.0020	mg/Kg	☼	07/19/17 05:28	07/19/17 08:52	1
Methylene Chloride	ND		0.0046	0.0022	mg/Kg	☼	07/19/17 05:28	07/19/17 08:52	1
Methyl tert-butyl ether	ND		0.0046	0.0034	mg/Kg	☼	07/19/17 05:28	07/19/17 08:52	1
n-Butylbenzene	ND		0.0046	0.0035	mg/Kg	☼	07/19/17 05:28	07/19/17 08:52	1
N-Propylbenzene	ND		0.0046	0.0019	mg/Kg	☼	07/19/17 05:28	07/19/17 08:52	1
sec-Butylbenzene	ND		0.0046	0.0022	mg/Kg	☼	07/19/17 05:28	07/19/17 08:52	1
tert-Butylbenzene	ND		0.0046	0.0017	mg/Kg	☼	07/19/17 05:28	07/19/17 08:52	1
Tetrachloroethene	ND		0.0046	0.0018	mg/Kg	☼	07/19/17 05:28	07/19/17 08:52	1
Toluene	ND		0.0046	0.0015	mg/Kg	☼	07/19/17 05:28	07/19/17 08:52	1
trans-1,2-Dichloroethene	ND		0.0046	0.0023	mg/Kg	☼	07/19/17 05:28	07/19/17 08:52	1
1,1,1-Trichloroethane	ND		0.0046	0.0023	mg/Kg	☼	07/19/17 05:28	07/19/17 08:52	1
Trichloroethene	ND		0.0046	0.0014	mg/Kg	☼	07/19/17 05:28	07/19/17 08:52	1
1,2,4-Trimethylbenzene	ND		0.0046	0.0012	mg/Kg	☼	07/19/17 05:28	07/19/17 08:52	1
1,3,5-Trimethylbenzene	ND		0.0046	0.0016	mg/Kg	☼	07/19/17 05:28	07/19/17 08:52	1
Vinyl chloride	ND		0.0046	0.0034	mg/Kg	☼	07/19/17 05:28	07/19/17 08:52	1
Xylenes, Total	ND		0.0092	0.0039	mg/Kg	☼	07/19/17 05:28	07/19/17 08:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*63 - 120*	*07/19/17 05:28*	*07/19/17 08:52*	*1*
Dibromofluoromethane (Surr)	*92*		*68 - 121*	*07/19/17 05:28*	*07/19/17 08:52*	*1*
1,2-Dichloroethane-d4 (Surr)	*83*		*52 - 124*	*07/19/17 05:28*	*07/19/17 08:52*	*1*
Toluene-d8 (Surr)	*111*		*72 - 127*	*07/19/17 05:28*	*07/19/17 08:52*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**7.6**		0.1	0.1	%			07/17/17 14:15	1
Percent Solids	**92.4**		0.1	0.1	%			07/17/17 14:15	1

Client Sample ID: W6, S1, B 071317

Date Collected: 07/13/17 08:05
Date Received: 07/14/17 13:15

Lab Sample ID: 180-68219-2

Matrix: Solid
Percent Solids: 91.8

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.019	0.0030	mg/Kg	☼	07/19/17 05:28	07/19/17 09:39	1
Benzene	ND		0.0048	0.0019	mg/Kg	☼	07/19/17 05:28	07/19/17 09:39	1
2-Butanone (MEK)	ND		0.0048	0.0028	mg/Kg	☼	07/19/17 05:28	07/19/17 09:39	1

Client Sample ID: W6, S1, B 071317 — Lab Sample ID: 180-68219-2

Date Collected: 07/13/17 08:05 — **Matrix: Solid**
Date Received: 07/14/17 13:15 — **Percent Solids: 91.8**

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	ND		0.0048	0.0032	mg/Kg	☼	07/19/17 05:28	07/19/17 09:39	1
Chlorobenzene	ND		0.0048	0.0015	mg/Kg	☼	07/19/17 05:28	07/19/17 09:39	1
Chloroform	ND		0.0048	0.0020	mg/Kg	☼	07/19/17 05:28	07/19/17 09:39	1
cis-1,2-Dichloroethene	ND		0.0048	0.0015	mg/Kg	☼	07/19/17 05:28	07/19/17 09:39	1
1,2-Dichlorobenzene	ND		0.0048	0.0038	mg/Kg	☼	07/19/17 05:28	07/19/17 09:39	1
1,3-Dichlorobenzene	ND		0.0048	0.0015	mg/Kg	☼	07/19/17 05:28	07/19/17 09:39	1
1,4-Dichlorobenzene	ND		0.0048	0.00097	mg/Kg	☼	07/19/17 05:28	07/19/17 09:39	1
1,1-Dichloroethane	ND		0.0048	0.0017	mg/Kg	☼	07/19/17 05:28	07/19/17 09:39	1
1,2-Dichloroethane	ND		0.0048	0.0014	mg/Kg	☼	07/19/17 05:28	07/19/17 09:39	1
1,1-Dichloroethene	ND		0.0048	0.0027	mg/Kg	☼	07/19/17 05:28	07/19/17 09:39	1
Ethylbenzene	ND		0.0048	0.0021	mg/Kg	☼	07/19/17 05:28	07/19/17 09:39	1
Methylene Chloride	ND		0.0048	0.0023	mg/Kg	☼	07/19/17 05:28	07/19/17 09:39	1
Methyl tert-butyl ether	ND		0.0048	0.0035	mg/Kg	☼	07/19/17 05:28	07/19/17 09:39	1
n-Butylbenzene	ND		0.0048	0.0036	mg/Kg	☼	07/19/17 05:28	07/19/17 09:39	1
N-Propylbenzene	ND		0.0048	0.0020	mg/Kg	☼	07/19/17 05:28	07/19/17 09:39	1
sec-Butylbenzene	ND		0.0048	0.0023	mg/Kg	☼	07/19/17 05:28	07/19/17 09:39	1
tert-Butylbenzene	ND		0.0048	0.0017	mg/Kg	☼	07/19/17 05:28	07/19/17 09:39	1
Tetrachloroethene	ND		0.0048	0.0019	mg/Kg	☼	07/19/17 05:28	07/19/17 09:39	1
Toluene	ND		0.0048	0.0016	mg/Kg	☼	07/19/17 05:28	07/19/17 09:39	1
trans-1,2-Dichloroethene	ND		0.0048	0.0024	mg/Kg	☼	07/19/17 05:28	07/19/17 09:39	1
1,1,1-Trichloroethane	ND		0.0048	0.0024	mg/Kg	☼	07/19/17 05:28	07/19/17 09:39	1
Trichloroethene	ND		0.0048	0.0014	mg/Kg	☼	07/19/17 05:28	07/19/17 09:39	1
1,2,4-Trimethylbenzene	ND		0.0048	0.0013	mg/Kg	☼	07/19/17 05:28	07/19/17 09:39	1
1,3,5-Trimethylbenzene	ND		0.0048	0.0016	mg/Kg	☼	07/19/17 05:28	07/19/17 09:39	1
Vinyl chloride	ND		0.0048	0.0035	mg/Kg	☼	07/19/17 05:28	07/19/17 09:39	1
Xylenes, Total	ND		0.0095	0.0041	mg/Kg	☼	07/19/17 05:28	07/19/17 09:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*63 - 120*	*07/19/17 05:28*	*07/19/17 09:39*	*1*
Dibromofluoromethane (Surr)	*87*		*68 - 121*	*07/19/17 05:28*	*07/19/17 09:39*	*1*
1,2-Dichloroethane-d4 (Surr)	*78*		*52 - 124*	*07/19/17 05:28*	*07/19/17 09:39*	*1*
Toluene-d8 (Surr)	*103*		*72 - 127*	*07/19/17 05:28*	*07/19/17 09:39*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**8.2**		0.1	0.1	%			07/15/17 11:55	1
Percent Solids	**91.8**		0.1	0.1	%			07/15/17 11:55	1

Client Sample ID: W6, S1, C 071317 — Lab Sample ID: 180-68219-3

Date Collected: 07/13/17 08:10 — **Matrix: Solid**
Date Received: 07/14/17 13:15 — **Percent Solids: 94.4**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.010**	**J**	0.021	0.0071	mg/Kg	☼	07/15/17 04:42	07/15/17 11:52	3
Acenaphthylene	**0.15**		0.021	0.0072	mg/Kg	☼	07/15/17 04:42	07/15/17 11:52	3
Anthracene	**0.17**	**F2**	0.021	0.0078	mg/Kg	☼	07/15/17 04:42	07/15/17 11:52	3
Benzo[a]anthracene	**0.48**	**F2**	0.021	0.0084	mg/Kg	☼	07/15/17 04:42	07/15/17 11:52	3
Benzo[a]pyrene	**0.46**	**F2**	0.021	0.0088	mg/Kg	☼	07/15/17 04:42	07/15/17 11:52	3
Benzo[b]fluoranthene	**0.55**	**F2 F1**	0.021	0.0092	mg/Kg	☼	07/15/17 04:42	07/15/17 11:52	3

Client Sample ID: W6, S1, C 071317 **Lab Sample ID: 180-68219-3**
Date Collected: 07/13/17 08:10 **Matrix: Solid**
Date Received: 07/14/17 13:15 **Percent Solids: 94.4**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	**0.49**	**F1 F2**	0.021	0.0092	mg/Kg	☼	07/15/17 04:42	07/15/17 11:52	3
Benzo[k]fluoranthene	**0.24**		0.021	0.0073	mg/Kg	☼	07/15/17 04:42	07/15/17 11:52	3
Chrysene	**0.46**	**F2**	0.021	0.0083	mg/Kg	☼	07/15/17 04:42	07/15/17 11:52	3
Dibenz(a,h)anthracene	**0.12**		0.021	0.0088	mg/Kg	☼	07/15/17 04:42	07/15/17 11:52	3
Dibenzofuran	**0.029**	**J**	0.10	0.0085	mg/Kg	☼	07/15/17 04:42	07/15/17 11:52	3
2,4-Dinitrotoluene	ND		0.10	0.014	mg/Kg	☼	07/15/17 04:42	07/15/17 11:52	3
1,4-Dioxane	ND		0.21	0.016	mg/Kg	☼	07/15/17 04:42	07/15/17 11:52	3
Fluoranthene	**0.94**	**F2 F1**	0.021	0.0084	mg/Kg	☼	07/15/17 04:42	07/15/17 11:52	3
Fluorene	**0.027**		0.021	0.0076	mg/Kg	☼	07/15/17 04:42	07/15/17 11:52	3
Hexachlorobenzene	ND		0.021	0.0085	mg/Kg	☼	07/15/17 04:42	07/15/17 11:52	3
Hexachlorobutadiene	ND		0.021	0.0067	mg/Kg	☼	07/15/17 04:42	07/15/17 11:52	3
Hexachloroethane	ND		0.10	0.0076	mg/Kg	☼	07/15/17 04:42	07/15/17 11:52	3
Indeno[1,2,3-cd]pyrene	**0.41**		0.021	0.0082	mg/Kg	☼	07/15/17 04:42	07/15/17 11:52	3
2-Methylphenol	ND		0.10	0.0094	mg/Kg	☼	07/15/17 04:42	07/15/17 11:52	3
Methylphenol, 3 & 4	ND		0.10	0.0094	mg/Kg	☼	07/15/17 04:42	07/15/17 11:52	3
Naphthalene	**0.12**		0.021	0.0076	mg/Kg	☼	07/15/17 04:42	07/15/17 11:52	3
Nitrobenzene	ND		0.21	0.0081	mg/Kg	☼	07/15/17 04:42	07/15/17 11:52	3
Pentachlorophenol	ND	F1	0.54	0.20	mg/Kg	☼	07/15/17 04:42	07/15/17 11:52	3
Phenanthrene	**0.37**	**F2 F1**	0.021	0.0089	mg/Kg	☼	07/15/17 04:42	07/15/17 11:52	3
Phenol	ND		0.10	0.014	mg/Kg	☼	07/15/17 04:42	07/15/17 11:52	3
Pyrene	**0.69**	**F2 F1**	0.021	0.0094	mg/Kg	☼	07/15/17 04:42	07/15/17 11:52	3
Pyridine	ND	F1 F2	0.10	0.010	mg/Kg	☼	07/15/17 04:42	07/15/17 11:52	3
2,4,5-Trichlorophenol	ND		0.10	0.010	mg/Kg	☼	07/15/17 04:42	07/15/17 11:52	3
2,4,6-Trichlorophenol	ND		0.10	0.0093	mg/Kg	☼	07/15/17 04:42	07/15/17 11:52	3

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*69*		*42 - 100*	*07/15/17 04:42*	*07/15/17 11:52*	*3*
2-Fluorophenol (Surr)	*64*		*21 - 107*	*07/15/17 04:42*	*07/15/17 11:52*	*3*
Nitrobenzene-d5 (Surr)	*73*		*35 - 109*	*07/15/17 04:42*	*07/15/17 11:52*	*3*
Phenol-d5 (Surr)	*54*		*29 - 105*	*07/15/17 04:42*	*07/15/17 11:52*	*3*
Terphenyl-d14 (Surr)	*66*		*36 - 113*	*07/15/17 04:42*	*07/15/17 11:52*	*3*
2,4,6-Tribromophenol (Surr)	*58*		*20 - 134*	*07/15/17 04:42*	*07/15/17 11:52*	*3*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.017	0.0092	mg/Kg	☼	07/16/17 13:30	07/17/17 10:57	1
PCB-1221	ND		0.017	0.0090	mg/Kg	☼	07/16/17 13:30	07/17/17 10:57	1
PCB-1232	ND		0.017	0.0069	mg/Kg	☼	07/16/17 13:30	07/17/17 10:57	1
PCB-1242	ND		0.017	0.014	mg/Kg	☼	07/16/17 13:30	07/17/17 10:57	1
PCB-1248	**0.80**		0.017	0.0083	mg/Kg	☼	07/16/17 13:30	07/17/17 10:57	1
PCB-1254	**0.47**		0.017	0.0076	mg/Kg	☼	07/16/17 13:30	07/17/17 10:57	1
PCB-1260	**0.15**		0.017	0.012	mg/Kg	☼	07/16/17 13:30	07/17/17 10:57	1
PCB-1262	ND		0.017	0.012	mg/Kg	☼	07/16/17 13:30	07/17/17 10:57	1
PCB-1268	ND		0.017	0.0053	mg/Kg	☼	07/16/17 13:30	07/17/17 10:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*87*		*23 - 150*	*07/16/17 13:30*	*07/17/17 10:57*	*1*
DCB Decachlorobiphenyl (Surr)	*98*		*23 - 150*	*07/16/17 13:30*	*07/17/17 10:57*	*1*
Tetrachloro-m-xylene (Surr)	*94*		*27 - 138*	*07/16/17 13:30*	*07/17/17 10:57*	*1*
Tetrachloro-m-xylene (Surr)	*93*		*27 - 138*	*07/16/17 13:30*	*07/17/17 10:57*	*1*

Client Sample ID: W6, S1, C 071317 — Lab Sample ID: 180-68219-3

Date Collected: 07/13/17 08:10 — **Matrix: Solid**
Date Received: 07/14/17 13:15 — **Percent Solids: 94.4**

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.6		1.0	0.46	mg/Kg	☼	07/18/17 10:32	07/20/17 12:39	1
Barium	85		21	5.6	mg/Kg	☼	07/18/17 10:32	07/20/17 12:39	1
Beryllium	0.36	J	0.42	0.11	mg/Kg	☼	07/18/17 10:32	07/20/17 12:39	1
Cadmium	0.16	J	0.52	0.12	mg/Kg	☼	07/18/17 10:32	07/20/17 12:39	1
Chromium	9.1		0.52	0.14	mg/Kg	☼	07/18/17 10:32	07/20/17 12:39	1
Copper	20		2.6	0.81	mg/Kg	☼	07/18/17 10:32	07/20/17 12:39	1
Lead	31		1.0	0.34	mg/Kg	☼	07/18/17 10:32	07/20/17 12:39	1
Manganese	370		1.6	0.43	mg/Kg	☼	07/18/17 10:32	07/20/17 12:39	1
Nickel	17		4.2	0.94	mg/Kg	☼	07/18/17 10:32	07/20/17 12:39	1
Selenium	ND		1.0	0.42	mg/Kg	☼	07/18/17 10:32	07/20/17 12:39	1
Silver	ND		0.52	0.17	mg/Kg	☼	07/18/17 10:32	07/20/17 12:39	1
Zinc	69		2.1	1.1	mg/Kg	☼	07/18/17 10:32	07/20/17 12:39	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.12	F2	0.035	0.0078	mg/Kg	☼	07/18/17 14:51	07/19/17 12:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	5.6		0.1	0.1	%			07/15/17 11:55	1
Percent Solids	94.4		0.1	0.1	%			07/15/17 11:55	1
Cyanide, Total	ND		0.47	0.14	mg/Kg	☼	07/18/17 10:56	07/18/17 14:30	1

Client Sample ID: W6, S2, A 071317 — Lab Sample ID: 180-68219-4

Date Collected: 07/13/17 08:20 — **Matrix: Solid**
Date Received: 07/14/17 13:15 — **Percent Solids: 90.6**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.021	0.0033	mg/Kg	☼	07/19/17 05:28	07/19/17 10:52	1
Benzene	ND		0.0052	0.0020	mg/Kg	☼	07/19/17 05:28	07/19/17 10:52	1
2-Butanone (MEK)	ND		0.0052	0.0030	mg/Kg	☼	07/19/17 05:28	07/19/17 10:52	1
Carbon tetrachloride	ND		0.0052	0.0034	mg/Kg	☼	07/19/17 05:28	07/19/17 10:52	1
Chlorobenzene	ND		0.0052	0.0016	mg/Kg	☼	07/19/17 05:28	07/19/17 10:52	1
Chloroform	ND		0.0052	0.0022	mg/Kg	☼	07/19/17 05:28	07/19/17 10:52	1
cis-1,2-Dichloroethene	ND		0.0052	0.0016	mg/Kg	☼	07/19/17 05:28	07/19/17 10:52	1
1,2-Dichlorobenzene	ND		0.0052	0.0042	mg/Kg	☼	07/19/17 05:28	07/19/17 10:52	1
1,3-Dichlorobenzene	ND		0.0052	0.0017	mg/Kg	☼	07/19/17 05:28	07/19/17 10:52	1
1,4-Dichlorobenzene	ND		0.0052	0.0011	mg/Kg	☼	07/19/17 05:28	07/19/17 10:52	1
1,1-Dichloroethane	ND		0.0052	0.0019	mg/Kg	☼	07/19/17 05:28	07/19/17 10:52	1
1,2-Dichloroethane	ND		0.0052	0.0015	mg/Kg	☼	07/19/17 05:28	07/19/17 10:52	1
1,1-Dichloroethene	ND		0.0052	0.0030	mg/Kg	☼	07/19/17 05:28	07/19/17 10:52	1
Ethylbenzene	ND		0.0052	0.0022	mg/Kg	☼	07/19/17 05:28	07/19/17 10:52	1
Methylene Chloride	ND		0.0052	0.0025	mg/Kg	☼	07/19/17 05:28	07/19/17 10:52	1
Methyl tert-butyl ether	ND		0.0052	0.0038	mg/Kg	☼	07/19/17 05:28	07/19/17 10:52	1
n-Butylbenzene	ND		0.0052	0.0039	mg/Kg	☼	07/19/17 05:28	07/19/17 10:52	1
N-Propylbenzene	ND		0.0052	0.0022	mg/Kg	☼	07/19/17 05:28	07/19/17 10:52	1
sec-Butylbenzene	ND		0.0052	0.0025	mg/Kg	☼	07/19/17 05:28	07/19/17 10:52	1
tert-Butylbenzene	ND		0.0052	0.0019	mg/Kg	☼	07/19/17 05:28	07/19/17 10:52	1
Tetrachloroethene	ND		0.0052	0.0021	mg/Kg	☼	07/19/17 05:28	07/19/17 10:52	1

Client Sample ID: W6, S2, A 071317

Lab Sample ID: 180-68219-4
Date Collected: 07/13/17 08:20
Matrix: Solid
Date Received: 07/14/17 13:15
Percent Solids: 90.6

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		0.0052	0.0018	mg/Kg	☼	07/19/17 05:28	07/19/17 10:52	1
trans-1,2-Dichloroethene	ND		0.0052	0.0026	mg/Kg	☼	07/19/17 05:28	07/19/17 10:52	1
1,1,1-Trichloroethane	ND		0.0052	0.0026	mg/Kg	☼	07/19/17 05:28	07/19/17 10:52	1
Trichloroethene	ND		0.0052	0.0016	mg/Kg	☼	07/19/17 05:28	07/19/17 10:52	1
1,2,4-Trimethylbenzene	ND		0.0052	0.0014	mg/Kg	☼	07/19/17 05:28	07/19/17 10:52	1
1,3,5-Trimethylbenzene	ND		0.0052	0.0018	mg/Kg	☼	07/19/17 05:28	07/19/17 10:52	1
Vinyl chloride	ND		0.0052	0.0038	mg/Kg	☼	07/19/17 05:28	07/19/17 10:52	1
Xylenes, Total	ND		0.010	0.0045	mg/Kg	☼	07/19/17 05:28	07/19/17 10:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*63 - 120*	*07/19/17 05:28*	*07/19/17 10:52*	*1*
Dibromofluoromethane (Surr)	*94*		*68 - 121*	*07/19/17 05:28*	*07/19/17 10:52*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*52 - 124*	*07/19/17 05:28*	*07/19/17 10:52*	*1*
Toluene-d8 (Surr)	*102*		*72 - 127*	*07/19/17 05:28*	*07/19/17 10:52*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.4**		0.1	0.1	%			07/15/17 11:55	1
Percent Solids	**90.6**		0.1	0.1	%			07/15/17 11:55	1

Client Sample ID: W6, S2, B 071317

Lab Sample ID: 180-68219-5
Date Collected: 07/13/17 08:25
Matrix: Solid
Date Received: 07/14/17 13:15
Percent Solids: 92.4

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.018	0.0029	mg/Kg	☼	07/19/17 05:28	07/19/17 11:15	1
Benzene	ND		0.0046	0.0018	mg/Kg	☼	07/19/17 05:28	07/19/17 11:15	1
2-Butanone (MEK)	ND		0.0046	0.0026	mg/Kg	☼	07/19/17 05:28	07/19/17 11:15	1
Carbon tetrachloride	ND		0.0046	0.0030	mg/Kg	☼	07/19/17 05:28	07/19/17 11:15	1
Chlorobenzene	ND		0.0046	0.0014	mg/Kg	☼	07/19/17 05:28	07/19/17 11:15	1
Chloroform	ND		0.0046	0.0019	mg/Kg	☼	07/19/17 05:28	07/19/17 11:15	1
cis-1,2-Dichloroethene	ND		0.0046	0.0014	mg/Kg	☼	07/19/17 05:28	07/19/17 11:15	1
1,2-Dichlorobenzene	ND		0.0046	0.0037	mg/Kg	☼	07/19/17 05:28	07/19/17 11:15	1
1,3-Dichlorobenzene	ND		0.0046	0.0015	mg/Kg	☼	07/19/17 05:28	07/19/17 11:15	1
1,4-Dichlorobenzene	ND		0.0046	0.00093	mg/Kg	☼	07/19/17 05:28	07/19/17 11:15	1
1,1-Dichloroethane	ND		0.0046	0.0017	mg/Kg	☼	07/19/17 05:28	07/19/17 11:15	1
1,2-Dichloroethane	ND		0.0046	0.0013	mg/Kg	☼	07/19/17 05:28	07/19/17 11:15	1
1,1-Dichloroethene	ND		0.0046	0.0026	mg/Kg	☼	07/19/17 05:28	07/19/17 11:15	1
Ethylbenzene	ND		0.0046	0.0020	mg/Kg	☼	07/19/17 05:28	07/19/17 11:15	1
Methylene Chloride	ND		0.0046	0.0022	mg/Kg	☼	07/19/17 05:28	07/19/17 11:15	1
Methyl tert-butyl ether	ND		0.0046	0.0034	mg/Kg	☼	07/19/17 05:28	07/19/17 11:15	1
n-Butylbenzene	ND		0.0046	0.0035	mg/Kg	☼	07/19/17 05:28	07/19/17 11:15	1
N-Propylbenzene	ND		0.0046	0.0019	mg/Kg	☼	07/19/17 05:28	07/19/17 11:15	1
sec-Butylbenzene	ND		0.0046	0.0022	mg/Kg	☼	07/19/17 05:28	07/19/17 11:15	1
tert-Butylbenzene	ND		0.0046	0.0017	mg/Kg	☼	07/19/17 05:28	07/19/17 11:15	1
Tetrachloroethene	ND		0.0046	0.0018	mg/Kg	☼	07/19/17 05:28	07/19/17 11:15	1
Toluene	ND		0.0046	0.0015	mg/Kg	☼	07/19/17 05:28	07/19/17 11:15	1
trans-1,2-Dichloroethene	ND		0.0046	0.0023	mg/Kg	☼	07/19/17 05:28	07/19/17 11:15	1
1,1,1-Trichloroethane	ND		0.0046	0.0023	mg/Kg	☼	07/19/17 05:28	07/19/17 11:15	1

Client Sample ID: W6, S2, B 071317

Lab Sample ID: 180-68219-5
Date Collected: 07/13/17 08:25
Matrix: Solid
Date Received: 07/14/17 13:15
Percent Solids: 92.4

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	ND		0.0046	0.0014	mg/Kg	☼	07/19/17 05:28	07/19/17 11:15	1
1,2,4-Trimethylbenzene	ND		0.0046	0.0012	mg/Kg	☼	07/19/17 05:28	07/19/17 11:15	1
1,3,5-Trimethylbenzene	ND		0.0046	0.0016	mg/Kg	☼	07/19/17 05:28	07/19/17 11:15	1
Vinyl chloride	ND		0.0046	0.0034	mg/Kg	☼	07/19/17 05:28	07/19/17 11:15	1
Xylenes, Total	ND		0.0091	0.0039	mg/Kg	☼	07/19/17 05:28	07/19/17 11:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*63 - 120*	*07/19/17 05:28*	*07/19/17 11:15*	*1*
Dibromofluoromethane (Surr)	*98*		*68 - 121*	*07/19/17 05:28*	*07/19/17 11:15*	*1*
1,2-Dichloroethane-d4 (Surr)	*87*		*52 - 124*	*07/19/17 05:28*	*07/19/17 11:15*	*1*
Toluene-d8 (Surr)	*119*		*72 - 127*	*07/19/17 05:28*	*07/19/17 11:15*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**7.6**		0.1	0.1	%			07/15/17 11:55	1
Percent Solids	**92.4**		0.1	0.1	%			07/15/17 11:55	1

Client Sample ID: W6, S2, C 071317

Lab Sample ID: 180-68219-6
Date Collected: 07/13/17 08:30
Matrix: Solid
Date Received: 07/14/17 13:15
Percent Solids: 88.2

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.022	0.0075	mg/Kg	☼	07/15/17 04:42	07/17/17 13:38	3
Acenaphthylene	**0.051**		0.022	0.0076	mg/Kg	☼	07/15/17 04:42	07/17/17 13:38	3
Anthracene	**0.078**		0.022	0.0083	mg/Kg	☼	07/15/17 04:42	07/17/17 13:38	3
Benzo[a]anthracene	**0.26**		0.022	0.0089	mg/Kg	☼	07/15/17 04:42	07/17/17 13:38	3
Benzo[a]pyrene	**0.24**		0.022	0.0093	mg/Kg	☼	07/15/17 04:42	07/17/17 13:38	3
Benzo[b]fluoranthene	**0.28**		0.022	0.0097	mg/Kg	☼	07/15/17 04:42	07/17/17 13:38	3
Benzo[g,h,i]perylene	**0.23**		0.022	0.0097	mg/Kg	☼	07/15/17 04:42	07/17/17 13:38	3
Benzo[k]fluoranthene	**0.12**		0.022	0.0077	mg/Kg	☼	07/15/17 04:42	07/17/17 13:38	3
Chrysene	**0.24**		0.022	0.0087	mg/Kg	☼	07/15/17 04:42	07/17/17 13:38	3
Dibenz(a,h)anthracene	**0.052**		0.022	0.0093	mg/Kg	☼	07/15/17 04:42	07/17/17 13:38	3
Dibenzofuran	**0.014**	**J**	0.11	0.0090	mg/Kg	☼	07/15/17 04:42	07/17/17 13:38	3
2,4-Dinitrotoluene	ND		0.11	0.015	mg/Kg	☼	07/15/17 04:42	07/17/17 13:38	3
1,4-Dioxane	ND		0.22	0.017	mg/Kg	☼	07/15/17 04:42	07/17/17 13:38	3
Fluoranthene	**0.41**		0.022	0.0088	mg/Kg	☼	07/15/17 04:42	07/17/17 13:38	3
Fluorene	**0.012**	**J**	0.022	0.0080	mg/Kg	☼	07/15/17 04:42	07/17/17 13:38	3
Hexachlorobenzene	ND		0.022	0.0090	mg/Kg	☼	07/15/17 04:42	07/17/17 13:38	3
Hexachlorobutadiene	ND		0.022	0.0071	mg/Kg	☼	07/15/17 04:42	07/17/17 13:38	3
Hexachloroethane	ND		0.11	0.0080	mg/Kg	☼	07/15/17 04:42	07/17/17 13:38	3
Indeno[1,2,3-cd]pyrene	**0.20**		0.022	0.0086	mg/Kg	☼	07/15/17 04:42	07/17/17 13:38	3
2-Methylphenol	ND		0.11	0.0099	mg/Kg	☼	07/15/17 04:42	07/17/17 13:38	3
Methylphenol, 3 & 4	ND		0.11	0.0099	mg/Kg	☼	07/15/17 04:42	07/17/17 13:38	3
Naphthalene	**0.049**		0.022	0.0080	mg/Kg	☼	07/15/17 04:42	07/17/17 13:38	3
Nitrobenzene	ND		0.22	0.0085	mg/Kg	☼	07/15/17 04:42	07/17/17 13:38	3
Pentachlorophenol	ND		0.57	0.21	mg/Kg	☼	07/15/17 04:42	07/17/17 13:38	3
Phenanthrene	**0.26**		0.022	0.0093	mg/Kg	☼	07/15/17 04:42	07/17/17 13:38	3
Phenol	ND		0.11	0.015	mg/Kg	☼	07/15/17 04:42	07/17/17 13:38	3
Pyrene	**0.42**		0.022	0.010	mg/Kg	☼	07/15/17 04:42	07/17/17 13:38	3

Client Sample ID: W6, S2, C 071317 **Lab Sample ID: 180-68219-6**
Date Collected: 07/13/17 08:30 **Matrix: Solid**
Date Received: 07/14/17 13:15 **Percent Solids: 88.2**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyridine	ND		0.11	0.011	mg/Kg	☼	07/15/17 04:42	07/17/17 13:38	3
2,4,5-Trichlorophenol	ND		0.11	0.011	mg/Kg	☼	07/15/17 04:42	07/17/17 13:38	3
2,4,6-Trichlorophenol	ND		0.11	0.0098	mg/Kg	☼	07/15/17 04:42	07/17/17 13:38	3

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*53*		*42 - 100*	*07/15/17 04:42*	*07/17/17 13:38*	*3*
2-Fluorophenol (Surr)	*47*		*21 - 107*	*07/15/17 04:42*	*07/17/17 13:38*	*3*
Nitrobenzene-d5 (Surr)	*56*		*35 - 109*	*07/15/17 04:42*	*07/17/17 13:38*	*3*
Phenol-d5 (Surr)	*43*		*29 - 105*	*07/15/17 04:42*	*07/17/17 13:38*	*3*
Terphenyl-d14 (Surr)	*58*		*36 - 113*	*07/15/17 04:42*	*07/17/17 13:38*	*3*
2,4,6-Tribromophenol (Surr)	*48*		*20 - 134*	*07/15/17 04:42*	*07/17/17 13:38*	*3*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.019	0.010	mg/Kg	☼	07/16/17 13:30	07/17/17 12:35	1
PCB-1221	ND		0.019	0.0098	mg/Kg	☼	07/16/17 13:30	07/17/17 12:35	1
PCB-1232	ND		0.019	0.0075	mg/Kg	☼	07/16/17 13:30	07/17/17 12:35	1
PCB-1242	ND		0.019	0.015	mg/Kg	☼	07/16/17 13:30	07/17/17 12:35	1
PCB-1248	**1.8**		0.019	0.0090	mg/Kg	☼	07/16/17 13:30	07/17/17 12:35	1
PCB-1254	**0.76**		0.019	0.0083	mg/Kg	☼	07/16/17 13:30	07/17/17 12:35	1
PCB-1260	**0.33**		0.019	0.013	mg/Kg	☼	07/16/17 13:30	07/17/17 12:35	1
PCB-1262	ND		0.019	0.014	mg/Kg	☼	07/16/17 13:30	07/17/17 12:35	1
PCB-1268	ND		0.019	0.0058	mg/Kg	☼	07/16/17 13:30	07/17/17 12:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*98*		*23 - 150*	*07/16/17 13:30*	*07/17/17 12:35*	*1*
DCB Decachlorobiphenyl (Surr)	*110*		*23 - 150*	*07/16/17 13:30*	*07/17/17 12:35*	*1*
Tetrachloro-m-xylene (Surr)	*95*		*27 - 138*	*07/16/17 13:30*	*07/17/17 12:35*	*1*
Tetrachloro-m-xylene (Surr)	*92*		*27 - 138*	*07/16/17 13:30*	*07/17/17 12:35*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**6.7**		1.1	0.48	mg/Kg	☼	07/18/17 10:32	07/20/17 13:04	1
Barium	**74**		22	5.8	mg/Kg	☼	07/18/17 10:32	07/20/17 13:04	1
Beryllium	**0.38**	**J**	0.43	0.11	mg/Kg	☼	07/18/17 10:32	07/20/17 13:04	1
Cadmium	**0.14**	**J**	0.54	0.12	mg/Kg	☼	07/18/17 10:32	07/20/17 13:04	1
Chromium	**9.9**		0.54	0.14	mg/Kg	☼	07/18/17 10:32	07/20/17 13:04	1
Copper	**21**		2.7	0.83	mg/Kg	☼	07/18/17 10:32	07/20/17 13:04	1
Lead	**32**		1.1	0.35	mg/Kg	☼	07/18/17 10:32	07/20/17 13:04	1
Manganese	**530**		1.6	0.44	mg/Kg	☼	07/18/17 10:32	07/20/17 13:04	1
Nickel	**19**		4.3	0.97	mg/Kg	☼	07/18/17 10:32	07/20/17 13:04	1
Selenium	ND		1.1	0.43	mg/Kg	☼	07/18/17 10:32	07/20/17 13:04	1
Silver	ND		0.54	0.18	mg/Kg	☼	07/18/17 10:32	07/20/17 13:04	1
Zinc	**81**		2.2	1.1	mg/Kg	☼	07/18/17 10:32	07/20/17 13:04	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.22**		0.036	0.0080	mg/Kg	☼	07/18/17 14:51	07/19/17 12:46	1

Client Sample ID: W6, S2, C 071317 — Lab Sample ID: 180-68219-6

Date Collected: 07/13/17 08:30 — **Matrix: Solid**
Date Received: 07/14/17 13:15 — **Percent Solids: 88.2**

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**11.7**		0.1	0.1	%			07/17/17 12:16	1
Percent Solids	**88.3**		0.1	0.1	%			07/17/17 12:16	1
Cyanide, Total	ND		0.55	0.17	mg/Kg	☼	07/18/17 10:56	07/18/17 14:35	1

Client Sample ID: W6, S3, A 071317 — Lab Sample ID: 180-68219-7

Date Collected: 07/13/17 08:45 — **Matrix: Solid**
Date Received: 07/14/17 13:15 — **Percent Solids: 87.5**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.019	0.0030	mg/Kg	☼	07/19/17 05:28	07/19/17 11:38	1
Benzene	ND		0.0048	0.0019	mg/Kg	☼	07/19/17 05:28	07/19/17 11:38	1
2-Butanone (MEK)	ND		0.0048	0.0028	mg/Kg	☼	07/19/17 05:28	07/19/17 11:38	1
Carbon tetrachloride	ND		0.0048	0.0032	mg/Kg	☼	07/19/17 05:28	07/19/17 11:38	1
Chlorobenzene	ND		0.0048	0.0015	mg/Kg	☼	07/19/17 05:28	07/19/17 11:38	1
Chloroform	ND		0.0048	0.0020	mg/Kg	☼	07/19/17 05:28	07/19/17 11:38	1
cis-1,2-Dichloroethene	ND		0.0048	0.0015	mg/Kg	☼	07/19/17 05:28	07/19/17 11:38	1
1,2-Dichlorobenzene	ND		0.0048	0.0039	mg/Kg	☼	07/19/17 05:28	07/19/17 11:38	1
1,3-Dichlorobenzene	ND		0.0048	0.0015	mg/Kg	☼	07/19/17 05:28	07/19/17 11:38	1
1,4-Dichlorobenzene	ND		0.0048	0.00098	mg/Kg	☼	07/19/17 05:28	07/19/17 11:38	1
1,1-Dichloroethane	ND		0.0048	0.0017	mg/Kg	☼	07/19/17 05:28	07/19/17 11:38	1
1,2-Dichloroethane	ND		0.0048	0.0014	mg/Kg	☼	07/19/17 05:28	07/19/17 11:38	1
1,1-Dichloroethene	ND		0.0048	0.0028	mg/Kg	☼	07/19/17 05:28	07/19/17 11:38	1
Ethylbenzene	ND		0.0048	0.0021	mg/Kg	☼	07/19/17 05:28	07/19/17 11:38	1
Methylene Chloride	**0.0024**	**J**	0.0048	0.0023	mg/Kg	☼	07/19/17 05:28	07/19/17 11:38	1
Methyl tert-butyl ether	ND		0.0048	0.0036	mg/Kg	☼	07/19/17 05:28	07/19/17 11:38	1
n-Butylbenzene	ND		0.0048	0.0037	mg/Kg	☼	07/19/17 05:28	07/19/17 11:38	1
N-Propylbenzene	ND		0.0048	0.0020	mg/Kg	☼	07/19/17 05:28	07/19/17 11:38	1
sec-Butylbenzene	ND		0.0048	0.0024	mg/Kg	☼	07/19/17 05:28	07/19/17 11:38	1
tert-Butylbenzene	ND		0.0048	0.0018	mg/Kg	☼	07/19/17 05:28	07/19/17 11:38	1
Tetrachloroethene	ND		0.0048	0.0019	mg/Kg	☼	07/19/17 05:28	07/19/17 11:38	1
Toluene	ND		0.0048	0.0016	mg/Kg	☼	07/19/17 05:28	07/19/17 11:38	1
trans-1,2-Dichloroethene	ND		0.0048	0.0024	mg/Kg	☼	07/19/17 05:28	07/19/17 11:38	1
1,1,1-Trichloroethane	ND		0.0048	0.0024	mg/Kg	☼	07/19/17 05:28	07/19/17 11:38	1
Trichloroethene	ND		0.0048	0.0015	mg/Kg	☼	07/19/17 05:28	07/19/17 11:38	1
1,2,4-Trimethylbenzene	ND		0.0048	0.0013	mg/Kg	☼	07/19/17 05:28	07/19/17 11:38	1
1,3,5-Trimethylbenzene	ND		0.0048	0.0017	mg/Kg	☼	07/19/17 05:28	07/19/17 11:38	1
Vinyl chloride	ND		0.0048	0.0035	mg/Kg	☼	07/19/17 05:28	07/19/17 11:38	1
Xylenes, Total	ND		0.0097	0.0042	mg/Kg	☼	07/19/17 05:28	07/19/17 11:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*63 - 120*	*07/19/17 05:28*	*07/19/17 11:38*	*1*
Dibromofluoromethane (Surr)	*96*		*68 - 121*	*07/19/17 05:28*	*07/19/17 11:38*	*1*
1,2-Dichloroethane-d4 (Surr)	*87*		*52 - 124*	*07/19/17 05:28*	*07/19/17 11:38*	*1*
Toluene-d8 (Surr)	*114*		*72 - 127*	*07/19/17 05:28*	*07/19/17 11:38*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**12.5**		0.1	0.1	%			07/17/17 14:15	1
Percent Solids	**87.5**		0.1	0.1	%			07/17/17 14:15	1

Client Sample ID: W6, S3, B 071317 — Lab Sample ID: 180-68219-8

Date Collected: 07/13/17 08:50 — **Matrix: Solid**
Date Received: 07/14/17 13:15 — **Percent Solids: 87.5**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.017	0.0027	mg/Kg	☼	07/19/17 05:28	07/19/17 12:00	1
Benzene	ND		0.0043	0.0017	mg/Kg	☼	07/19/17 05:28	07/19/17 12:00	1
2-Butanone (MEK)	ND		0.0043	0.0025	mg/Kg	☼	07/19/17 05:28	07/19/17 12:00	1
Carbon tetrachloride	ND		0.0043	0.0029	mg/Kg	☼	07/19/17 05:28	07/19/17 12:00	1
Chlorobenzene	ND		0.0043	0.0014	mg/Kg	☼	07/19/17 05:28	07/19/17 12:00	1
Chloroform	ND		0.0043	0.0018	mg/Kg	☼	07/19/17 05:28	07/19/17 12:00	1
cis-1,2-Dichloroethene	ND		0.0043	0.0014	mg/Kg	☼	07/19/17 05:28	07/19/17 12:00	1
1,2-Dichlorobenzene	ND		0.0043	0.0035	mg/Kg	☼	07/19/17 05:28	07/19/17 12:00	1
1,3-Dichlorobenzene	ND		0.0043	0.0014	mg/Kg	☼	07/19/17 05:28	07/19/17 12:00	1
1,4-Dichlorobenzene	ND		0.0043	0.00088	mg/Kg	☼	07/19/17 05:28	07/19/17 12:00	1
1,1-Dichloroethane	ND		0.0043	0.0016	mg/Kg	☼	07/19/17 05:28	07/19/17 12:00	1
1,2-Dichloroethane	ND		0.0043	0.0013	mg/Kg	☼	07/19/17 05:28	07/19/17 12:00	1
1,1-Dichloroethene	ND		0.0043	0.0025	mg/Kg	☼	07/19/17 05:28	07/19/17 12:00	1
Ethylbenzene	ND		0.0043	0.0019	mg/Kg	☼	07/19/17 05:28	07/19/17 12:00	1
Methylene Chloride	ND		0.0043	0.0020	mg/Kg	☼	07/19/17 05:28	07/19/17 12:00	1
Methyl tert-butyl ether	ND		0.0043	0.0032	mg/Kg	☼	07/19/17 05:28	07/19/17 12:00	1
n-Butylbenzene	ND		0.0043	0.0033	mg/Kg	☼	07/19/17 05:28	07/19/17 12:00	1
N-Propylbenzene	ND		0.0043	0.0018	mg/Kg	☼	07/19/17 05:28	07/19/17 12:00	1
sec-Butylbenzene	ND		0.0043	0.0021	mg/Kg	☼	07/19/17 05:28	07/19/17 12:00	1
tert-Butylbenzene	ND		0.0043	0.0016	mg/Kg	☼	07/19/17 05:28	07/19/17 12:00	1
Tetrachloroethene	ND		0.0043	0.0017	mg/Kg	☼	07/19/17 05:28	07/19/17 12:00	1
Toluene	ND		0.0043	0.0015	mg/Kg	☼	07/19/17 05:28	07/19/17 12:00	1
trans-1,2-Dichloroethene	ND		0.0043	0.0022	mg/Kg	☼	07/19/17 05:28	07/19/17 12:00	1
1,1,1-Trichloroethane	ND		0.0043	0.0022	mg/Kg	☼	07/19/17 05:28	07/19/17 12:00	1
Trichloroethene	ND		0.0043	0.0013	mg/Kg	☼	07/19/17 05:28	07/19/17 12:00	1
1,2,4-Trimethylbenzene	ND		0.0043	0.0012	mg/Kg	☼	07/19/17 05:28	07/19/17 12:00	1
1,3,5-Trimethylbenzene	ND		0.0043	0.0015	mg/Kg	☼	07/19/17 05:28	07/19/17 12:00	1
Vinyl chloride	ND		0.0043	0.0032	mg/Kg	☼	07/19/17 05:28	07/19/17 12:00	1
Xylenes, Total	ND		0.0086	0.0037	mg/Kg	☼	07/19/17 05:28	07/19/17 12:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*63 - 120*	*07/19/17 05:28*	*07/19/17 12:00*	*1*
Dibromofluoromethane (Surr)	*93*		*68 - 121*	*07/19/17 05:28*	*07/19/17 12:00*	*1*
1,2-Dichloroethane-d4 (Surr)	*84*		*52 - 124*	*07/19/17 05:28*	*07/19/17 12:00*	*1*
Toluene-d8 (Surr)	*114*		*72 - 127*	*07/19/17 05:28*	*07/19/17 12:00*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**12.5**		0.1	0.1	%			07/17/17 14:15	1
Percent Solids	**87.5**		0.1	0.1	%			07/17/17 14:15	1

Client Sample ID: W6, S3, C 071317 — Lab Sample ID: 180-68219-9

Date Collected: 07/13/17 08:55 — **Matrix: Solid**
Date Received: 07/15/17 09:15 — **Percent Solids: 88.7**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.075	0.025	mg/Kg	☼	07/16/17 13:37	07/17/17 12:37	10
Acenaphthylene	**0.13**		0.075	0.025	mg/Kg	☼	07/16/17 13:37	07/17/17 12:37	10
Anthracene	**0.075**		0.075	0.028	mg/Kg	☼	07/16/17 13:37	07/17/17 12:37	10

Client Sample ID: W6, S3, C 071317 **Lab Sample ID: 180-68219-9**
Date Collected: 07/13/17 08:55 **Matrix: Solid**
Date Received: 07/15/17 09:15 **Percent Solids: 88.7**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	**0.32**		0.075	0.030	mg/Kg	☼	07/16/17 13:37	07/17/17 12:37	10
Benzo[a]pyrene	**0.33**		0.075	0.031	mg/Kg	☼	07/16/17 13:37	07/17/17 12:37	10
Benzo[b]fluoranthene	**0.38**		0.075	0.032	mg/Kg	☼	07/16/17 13:37	07/17/17 12:37	10
Benzo[g,h,i]perylene	**0.24**		0.075	0.032	mg/Kg	☼	07/16/17 13:37	07/17/17 12:37	10
Benzo[k]fluoranthene	**0.15**		0.075	0.026	mg/Kg	☼	07/16/17 13:37	07/17/17 12:37	10
Chrysene	**0.31**		0.075	0.029	mg/Kg	☼	07/16/17 13:37	07/17/17 12:37	10
Dibenz(a,h)anthracene	**0.067**	**J**	0.075	0.031	mg/Kg	☼	07/16/17 13:37	07/17/17 12:37	10
Dibenzofuran	ND		0.37	0.030	mg/Kg	☼	07/16/17 13:37	07/17/17 12:37	10
2,4-Dinitrotoluene	ND		0.37	0.049	mg/Kg	☼	07/16/17 13:37	07/17/17 12:37	10
1,4-Dioxane	ND		0.75	0.056	mg/Kg	☼	07/16/17 13:37	07/17/17 12:37	10
Fluoranthene	**0.38**		0.075	0.029	mg/Kg	☼	07/16/17 13:37	07/17/17 12:37	10
Fluorene	**0.029**	**J**	0.075	0.027	mg/Kg	☼	07/16/17 13:37	07/17/17 12:37	10
Hexachlorobenzene	ND		0.075	0.030	mg/Kg	☼	07/16/17 13:37	07/17/17 12:37	10
Hexachlorobutadiene	ND		0.075	0.024	mg/Kg	☼	07/16/17 13:37	07/17/17 12:37	10
Hexachloroethane	ND		0.37	0.027	mg/Kg	☼	07/16/17 13:37	07/17/17 12:37	10
Indeno[1,2,3-cd]pyrene	**0.20**		0.075	0.029	mg/Kg	☼	07/16/17 13:37	07/17/17 12:37	10
2-Methylphenol	ND		0.37	0.033	mg/Kg	☼	07/16/17 13:37	07/17/17 12:37	10
Methylphenol, 3 & 4	ND		0.37	0.033	mg/Kg	☼	07/16/17 13:37	07/17/17 12:37	10
Naphthalene	**0.058**	**J**	0.075	0.027	mg/Kg	☼	07/16/17 13:37	07/17/17 12:37	10
Nitrobenzene	ND		0.75	0.029	mg/Kg	☼	07/16/17 13:37	07/17/17 12:37	10
Pentachlorophenol	ND		1.9	0.71	mg/Kg	☼	07/16/17 13:37	07/17/17 12:37	10
Phenanthrene	**0.16**		0.075	0.031	mg/Kg	☼	07/16/17 13:37	07/17/17 12:37	10
Phenol	ND		0.37	0.050	mg/Kg	☼	07/16/17 13:37	07/17/17 12:37	10
Pyrene	**0.40**		0.075	0.033	mg/Kg	☼	07/16/17 13:37	07/17/17 12:37	10
Pyridine	ND		0.37	0.036	mg/Kg	☼	07/16/17 13:37	07/17/17 12:37	10
2,4,5-Trichlorophenol	ND		0.37	0.036	mg/Kg	☼	07/16/17 13:37	07/17/17 12:37	10
2,4,6-Trichlorophenol	ND		0.37	0.033	mg/Kg	☼	07/16/17 13:37	07/17/17 12:37	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*77*		*42 - 100*	*07/16/17 13:37*	*07/17/17 12:37*	*10*
2-Fluorophenol (Surr)	*64*		*21 - 107*	*07/16/17 13:37*	*07/17/17 12:37*	*10*
Nitrobenzene-d5 (Surr)	*71*		*35 - 109*	*07/16/17 13:37*	*07/17/17 12:37*	*10*
Phenol-d5 (Surr)	*68*		*29 - 105*	*07/16/17 13:37*	*07/17/17 12:37*	*10*
Terphenyl-d14 (Surr)	*82*		*36 - 113*	*07/16/17 13:37*	*07/17/17 12:37*	*10*
2,4,6-Tribromophenol (Surr)	*68*		*20 - 134*	*07/16/17 13:37*	*07/17/17 12:37*	*10*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.019	0.0098	mg/Kg	☼	07/16/17 13:30	07/17/17 12:55	1
PCB-1221	ND		0.019	0.0096	mg/Kg	☼	07/16/17 13:30	07/17/17 12:55	1
PCB-1232	ND		0.019	0.0073	mg/Kg	☼	07/16/17 13:30	07/17/17 12:55	1
PCB-1242	ND		0.019	0.015	mg/Kg	☼	07/16/17 13:30	07/17/17 12:55	1
PCB-1248	**1.2**		0.019	0.0089	mg/Kg	☼	07/16/17 13:30	07/17/17 12:55	1
PCB-1254	**0.55**		0.019	0.0081	mg/Kg	☼	07/16/17 13:30	07/17/17 12:55	1
PCB-1260	**0.23**		0.019	0.012	mg/Kg	☼	07/16/17 13:30	07/17/17 12:55	1
PCB-1262	ND		0.019	0.013	mg/Kg	☼	07/16/17 13:30	07/17/17 12:55	1
PCB-1268	ND		0.019	0.0056	mg/Kg	☼	07/16/17 13:30	07/17/17 12:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*85*		*23 - 150*	*07/16/17 13:30*	*07/17/17 12:55*	*1*

Client Sample ID: W6, S3, C 071317 — Lab Sample ID: 180-68219-9

Date Collected: 07/13/17 08:55 — **Matrix: Solid**
Date Received: 07/15/17 09:15 — **Percent Solids: 88.7**

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*98*		*23 - 150*	*07/16/17 13:30*	*07/17/17 12:55*	*1*
Tetrachloro-m-xylene (Surr)	*80*		*27 - 138*	*07/16/17 13:30*	*07/17/17 12:55*	*1*
Tetrachloro-m-xylene (Surr)	*78*		*27 - 138*	*07/16/17 13:30*	*07/17/17 12:55*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**12**		1.1	0.49	mg/Kg	☼	07/18/17 10:32	07/20/17 13:10	1
Barium	**99**		22	5.9	mg/Kg	☼	07/18/17 10:32	07/20/17 13:10	1
Beryllium	**0.47**		0.44	0.12	mg/Kg	☼	07/18/17 10:32	07/20/17 13:10	1
Cadmium	**0.17**	**J**	0.55	0.12	mg/Kg	☼	07/18/17 10:32	07/20/17 13:10	1
Chromium	**12**		0.55	0.14	mg/Kg	☼	07/18/17 10:32	07/20/17 13:10	1
Copper	**24**		2.8	0.85	mg/Kg	☼	07/18/17 10:32	07/20/17 13:10	1
Lead	**36**		1.1	0.36	mg/Kg	☼	07/18/17 10:32	07/20/17 13:10	1
Manganese	**510**		1.7	0.45	mg/Kg	☼	07/18/17 10:32	07/20/17 13:10	1
Nickel	**22**		4.4	1.0	mg/Kg	☼	07/18/17 10:32	07/20/17 13:10	1
Selenium	ND		1.1	0.44	mg/Kg	☼	07/18/17 10:32	07/20/17 13:10	1
Silver	ND		0.55	0.18	mg/Kg	☼	07/18/17 10:32	07/20/17 13:10	1
Zinc	**76**		2.2	1.1	mg/Kg	☼	07/18/17 10:32	07/20/17 13:10	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.11**		0.039	0.0088	mg/Kg	☼	07/18/17 14:51	07/19/17 13:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**11.3**		0.1	0.1	%			07/17/17 12:16	1
Percent Solids	**88.7**		0.1	0.1	%			07/17/17 12:16	1
Cyanide, Total	ND		0.51	0.16	mg/Kg	☼	07/18/17 10:56	07/18/17 14:37	1

Client Sample ID: W6, S4, A 071317 — Lab Sample ID: 180-68219-10

Date Collected: 07/13/17 09:15 — **Matrix: Solid**
Date Received: 07/14/17 13:15 — **Percent Solids: 90.8**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.018	0.0029	mg/Kg	☼	07/19/17 05:28	07/19/17 12:23	1
Benzene	ND		0.0045	0.0018	mg/Kg	☼	07/19/17 05:28	07/19/17 12:23	1
2-Butanone (MEK)	ND		0.0045	0.0026	mg/Kg	☼	07/19/17 05:28	07/19/17 12:23	1
Carbon tetrachloride	ND		0.0045	0.0030	mg/Kg	☼	07/19/17 05:28	07/19/17 12:23	1
Chlorobenzene	ND		0.0045	0.0014	mg/Kg	☼	07/19/17 05:28	07/19/17 12:23	1
Chloroform	ND		0.0045	0.0019	mg/Kg	☼	07/19/17 05:28	07/19/17 12:23	1
cis-1,2-Dichloroethene	ND		0.0045	0.0014	mg/Kg	☼	07/19/17 05:28	07/19/17 12:23	1
1,2-Dichlorobenzene	ND		0.0045	0.0036	mg/Kg	☼	07/19/17 05:28	07/19/17 12:23	1
1,3-Dichlorobenzene	ND		0.0045	0.0014	mg/Kg	☼	07/19/17 05:28	07/19/17 12:23	1
1,4-Dichlorobenzene	ND		0.0045	0.00092	mg/Kg	☼	07/19/17 05:28	07/19/17 12:23	1
1,1-Dichloroethane	ND		0.0045	0.0016	mg/Kg	☼	07/19/17 05:28	07/19/17 12:23	1
1,2-Dichloroethane	ND		0.0045	0.0013	mg/Kg	☼	07/19/17 05:28	07/19/17 12:23	1
1,1-Dichloroethene	ND		0.0045	0.0026	mg/Kg	☼	07/19/17 05:28	07/19/17 12:23	1
Ethylbenzene	ND		0.0045	0.0020	mg/Kg	☼	07/19/17 05:28	07/19/17 12:23	1
Methylene Chloride	ND		0.0045	0.0021	mg/Kg	☼	07/19/17 05:28	07/19/17 12:23	1

Client Sample ID: W6, S4, A 071317

Lab Sample ID: 180-68219-10
Date Collected: 07/13/17 09:15
Matrix: Solid
Date Received: 07/14/17 13:15
Percent Solids: 90.8

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.0045	0.0033	mg/Kg	☼	07/19/17 05:28	07/19/17 12:23	1
n-Butylbenzene	ND		0.0045	0.0034	mg/Kg	☼	07/19/17 05:28	07/19/17 12:23	1
N-Propylbenzene	ND		0.0045	0.0019	mg/Kg	☼	07/19/17 05:28	07/19/17 12:23	1
sec-Butylbenzene	ND		0.0045	0.0022	mg/Kg	☼	07/19/17 05:28	07/19/17 12:23	1
tert-Butylbenzene	ND		0.0045	0.0017	mg/Kg	☼	07/19/17 05:28	07/19/17 12:23	1
Tetrachloroethene	ND		0.0045	0.0018	mg/Kg	☼	07/19/17 05:28	07/19/17 12:23	1
Toluene	ND		0.0045	0.0015	mg/Kg	☼	07/19/17 05:28	07/19/17 12:23	1
trans-1,2-Dichloroethene	ND		0.0045	0.0023	mg/Kg	☼	07/19/17 05:28	07/19/17 12:23	1
1,1,1-Trichloroethane	ND		0.0045	0.0023	mg/Kg	☼	07/19/17 05:28	07/19/17 12:23	1
Trichloroethene	ND		0.0045	0.0014	mg/Kg	☼	07/19/17 05:28	07/19/17 12:23	1
1,2,4-Trimethylbenzene	ND		0.0045	0.0012	mg/Kg	☼	07/19/17 05:28	07/19/17 12:23	1
1,3,5-Trimethylbenzene	ND		0.0045	0.0016	mg/Kg	☼	07/19/17 05:28	07/19/17 12:23	1
Vinyl chloride	ND		0.0045	0.0033	mg/Kg	☼	07/19/17 05:28	07/19/17 12:23	1
Xylenes, Total	ND		0.0091	0.0039	mg/Kg	☼	07/19/17 05:28	07/19/17 12:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*63 - 120*	*07/19/17 05:28*	*07/19/17 12:23*	*1*
Dibromofluoromethane (Surr)	*96*		*68 - 121*	*07/19/17 05:28*	*07/19/17 12:23*	*1*
1,2-Dichloroethane-d4 (Surr)	*85*		*52 - 124*	*07/19/17 05:28*	*07/19/17 12:23*	*1*
Toluene-d8 (Surr)	*116*		*72 - 127*	*07/19/17 05:28*	*07/19/17 12:23*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.2**		0.1	0.1	%			07/17/17 14:15	1
Percent Solids	**90.8**		0.1	0.1	%			07/17/17 14:15	1

Client Sample ID: W6, S4, B 071317

Lab Sample ID: 180-68219-11
Date Collected: 07/13/17 09:20
Matrix: Solid
Date Received: 07/14/17 13:15
Percent Solids: 87.9

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.017	0.0027	mg/Kg	☼	07/19/17 05:28	07/19/17 12:46	1
Benzene	ND		0.0043	0.0017	mg/Kg	☼	07/19/17 05:28	07/19/17 12:46	1
2-Butanone (MEK)	ND		0.0043	0.0025	mg/Kg	☼	07/19/17 05:28	07/19/17 12:46	1
Carbon tetrachloride	ND		0.0043	0.0029	mg/Kg	☼	07/19/17 05:28	07/19/17 12:46	1
Chlorobenzene	ND		0.0043	0.0014	mg/Kg	☼	07/19/17 05:28	07/19/17 12:46	1
Chloroform	ND		0.0043	0.0018	mg/Kg	☼	07/19/17 05:28	07/19/17 12:46	1
cis-1,2-Dichloroethene	ND		0.0043	0.0014	mg/Kg	☼	07/19/17 05:28	07/19/17 12:46	1
1,2-Dichlorobenzene	ND		0.0043	0.0035	mg/Kg	☼	07/19/17 05:28	07/19/17 12:46	1
1,3-Dichlorobenzene	ND		0.0043	0.0014	mg/Kg	☼	07/19/17 05:28	07/19/17 12:46	1
1,4-Dichlorobenzene	ND		0.0043	0.00088	mg/Kg	☼	07/19/17 05:28	07/19/17 12:46	1
1,1-Dichloroethane	ND		0.0043	0.0016	mg/Kg	☼	07/19/17 05:28	07/19/17 12:46	1
1,2-Dichloroethane	ND		0.0043	0.0013	mg/Kg	☼	07/19/17 05:28	07/19/17 12:46	1
1,1-Dichloroethene	ND		0.0043	0.0025	mg/Kg	☼	07/19/17 05:28	07/19/17 12:46	1
Ethylbenzene	ND		0.0043	0.0019	mg/Kg	☼	07/19/17 05:28	07/19/17 12:46	1
Methylene Chloride	ND		0.0043	0.0020	mg/Kg	☼	07/19/17 05:28	07/19/17 12:46	1
Methyl tert-butyl ether	ND		0.0043	0.0032	mg/Kg	☼	07/19/17 05:28	07/19/17 12:46	1
n-Butylbenzene	ND		0.0043	0.0033	mg/Kg	☼	07/19/17 05:28	07/19/17 12:46	1
N-Propylbenzene	ND		0.0043	0.0018	mg/Kg	☼	07/19/17 05:28	07/19/17 12:46	1

Client Sample ID: W6, S4, B 071317 — Lab Sample ID: 180-68219-11

Date Collected: 07/13/17 09:20 — **Matrix: Solid**
Date Received: 07/14/17 13:15 — **Percent Solids: 87.9**

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		0.0043	0.0021	mg/Kg	☼	07/19/17 05:28	07/19/17 12:46	1
tert-Butylbenzene	ND		0.0043	0.0016	mg/Kg	☼	07/19/17 05:28	07/19/17 12:46	1
Tetrachloroethene	ND		0.0043	0.0017	mg/Kg	☼	07/19/17 05:28	07/19/17 12:46	1
Toluene	ND		0.0043	0.0015	mg/Kg	☼	07/19/17 05:28	07/19/17 12:46	1
trans-1,2-Dichloroethene	ND		0.0043	0.0022	mg/Kg	☼	07/19/17 05:28	07/19/17 12:46	1
1,1,1-Trichloroethane	ND		0.0043	0.0022	mg/Kg	☼	07/19/17 05:28	07/19/17 12:46	1
Trichloroethene	ND		0.0043	0.0013	mg/Kg	☼	07/19/17 05:28	07/19/17 12:46	1
1,2,4-Trimethylbenzene	ND		0.0043	0.0012	mg/Kg	☼	07/19/17 05:28	07/19/17 12:46	1
1,3,5-Trimethylbenzene	ND		0.0043	0.0015	mg/Kg	☼	07/19/17 05:28	07/19/17 12:46	1
Vinyl chloride	ND		0.0043	0.0032	mg/Kg	☼	07/19/17 05:28	07/19/17 12:46	1
Xylenes, Total	ND		0.0086	0.0037	mg/Kg	☼	07/19/17 05:28	07/19/17 12:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*63 - 120*	*07/19/17 05:28*	*07/19/17 12:46*	*1*
Dibromofluoromethane (Surr)	*96*		*68 - 121*	*07/19/17 05:28*	*07/19/17 12:46*	*1*
1,2-Dichloroethane-d4 (Surr)	*88*		*52 - 124*	*07/19/17 05:28*	*07/19/17 12:46*	*1*
Toluene-d8 (Surr)	*118*		*72 - 127*	*07/19/17 05:28*	*07/19/17 12:46*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**12.1**		0.1	0.1	%			07/17/17 14:15	1
Percent Solids	**87.9**		0.1	0.1	%			07/17/17 14:15	1

Client Sample ID: W6, S4, C 071317 — Lab Sample ID: 180-68219-12

Date Collected: 07/13/17 09:25 — **Matrix: Solid**
Date Received: 07/14/17 13:15 — **Percent Solids: 90.2**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.029	0.0098	mg/Kg	☼	07/18/17 03:38	07/18/17 18:02	4
Acenaphthylene	**0.055**		0.029	0.0099	mg/Kg	☼	07/18/17 03:38	07/18/17 18:02	4
Anthracene	**0.052**		0.029	0.011	mg/Kg	☼	07/18/17 03:38	07/18/17 18:02	4
Benzo[a]anthracene	**0.16**		0.029	0.012	mg/Kg	☼	07/18/17 03:38	07/18/17 18:02	4
Benzo[a]pyrene	**0.15**		0.029	0.012	mg/Kg	☼	07/18/17 03:38	07/18/17 18:02	4
Benzo[b]fluoranthene	**0.19**		0.029	0.013	mg/Kg	☼	07/18/17 03:38	07/18/17 18:02	4
Benzo[g,h,i]perylene	**0.16**		0.029	0.013	mg/Kg	☼	07/18/17 03:38	07/18/17 18:02	4
Benzo[k]fluoranthene	**0.073**		0.029	0.010	mg/Kg	☼	07/18/17 03:38	07/18/17 18:02	4
Chrysene	**0.16**		0.029	0.011	mg/Kg	☼	07/18/17 03:38	07/18/17 18:02	4
Dibenz(a,h)anthracene	**0.040**		0.029	0.012	mg/Kg	☼	07/18/17 03:38	07/18/17 18:02	4
Dibenzofuran	**0.020**	**J**	0.14	0.012	mg/Kg	☼	07/18/17 03:38	07/18/17 18:02	4
2,4-Dinitrotoluene	ND		0.14	0.019	mg/Kg	☼	07/18/17 03:38	07/18/17 18:02	4
1,4-Dioxane	ND		0.29	0.022	mg/Kg	☼	07/18/17 03:38	07/18/17 18:02	4
Fluoranthene	**0.22**		0.029	0.011	mg/Kg	☼	07/18/17 03:38	07/18/17 18:02	4
Fluorene	**0.011**	**J**	0.029	0.010	mg/Kg	☼	07/18/17 03:38	07/18/17 18:02	4
Hexachlorobenzene	ND		0.029	0.012	mg/Kg	☼	07/18/17 03:38	07/18/17 18:02	4
Hexachlorobutadiene	ND		0.029	0.0092	mg/Kg	☼	07/18/17 03:38	07/18/17 18:02	4
Hexachloroethane	ND		0.14	0.010	mg/Kg	☼	07/18/17 03:38	07/18/17 18:02	4
Indeno[1,2,3-cd]pyrene	**0.13**		0.029	0.011	mg/Kg	☼	07/18/17 03:38	07/18/17 18:02	4
2-Methylphenol	ND		0.14	0.013	mg/Kg	☼	07/18/17 03:38	07/18/17 18:02	4
Methylphenol, 3 & 4	ND		0.14	0.013	mg/Kg	☼	07/18/17 03:38	07/18/17 18:02	4

Client Sample ID: W6, S4, C 071317 **Lab Sample ID: 180-68219-12**
Date Collected: 07/13/17 09:25 **Matrix: Solid**
Date Received: 07/14/17 13:15 **Percent Solids: 90.2**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**0.053**		0.029	0.010	mg/Kg	☼	07/18/17 03:38	07/18/17 18:02	4
Nitrobenzene	ND		0.29	0.011	mg/Kg	☼	07/18/17 03:38	07/18/17 18:02	4
Pentachlorophenol	ND		0.74	0.28	mg/Kg	☼	07/18/17 03:38	07/18/17 18:02	4
Phenanthrene	**0.14**		0.029	0.012	mg/Kg	☼	07/18/17 03:38	07/18/17 18:02	4
Phenol	ND		0.14	0.020	mg/Kg	☼	07/18/17 03:38	07/18/17 18:02	4
Pyrene	**0.24**		0.029	0.013	mg/Kg	☼	07/18/17 03:38	07/18/17 18:02	4
Pyridine	ND	F1	0.14	0.014	mg/Kg	☼	07/18/17 03:38	07/18/17 18:02	4
2,4,5-Trichlorophenol	ND		0.14	0.014	mg/Kg	☼	07/18/17 03:38	07/18/17 18:02	4
2,4,6-Trichlorophenol	ND		0.14	0.013	mg/Kg	☼	07/18/17 03:38	07/18/17 18:02	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*70*		*42 - 100*	*07/18/17 03:38*	*07/18/17 18:02*	*4*
2-Fluorophenol (Surr)	*53*		*21 - 107*	*07/18/17 03:38*	*07/18/17 18:02*	*4*
Nitrobenzene-d5 (Surr)	*66*		*35 - 109*	*07/18/17 03:38*	*07/18/17 18:02*	*4*
Phenol-d5 (Surr)	*55*		*29 - 105*	*07/18/17 03:38*	*07/18/17 18:02*	*4*
Terphenyl-d14 (Surr)	*70*		*36 - 113*	*07/18/17 03:38*	*07/18/17 18:02*	*4*
2,4,6-Tribromophenol (Surr)	*64*		*20 - 134*	*07/18/17 03:38*	*07/18/17 18:02*	*4*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.018	0.0096	mg/Kg	☼	07/18/17 03:42	07/18/17 10:46	1
PCB-1221	ND		0.018	0.0094	mg/Kg	☼	07/18/17 03:42	07/18/17 10:46	1
PCB-1232	ND		0.018	0.0072	mg/Kg	☼	07/18/17 03:42	07/18/17 10:46	1
PCB-1242	ND		0.018	0.014	mg/Kg	☼	07/18/17 03:42	07/18/17 10:46	1
PCB-1248	**1.5**		0.018	0.0086	mg/Kg	☼	07/18/17 03:42	07/18/17 10:46	1
PCB-1254	**0.60**		0.018	0.0079	mg/Kg	☼	07/18/17 03:42	07/18/17 10:46	1
PCB-1260	**0.22**		0.018	0.012	mg/Kg	☼	07/18/17 03:42	07/18/17 10:46	1
PCB-1262	ND		0.018	0.013	mg/Kg	☼	07/18/17 03:42	07/18/17 10:46	1
PCB-1268	ND		0.018	0.0055	mg/Kg	☼	07/18/17 03:42	07/18/17 10:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*70*		*23 - 150*	*07/18/17 03:42*	*07/18/17 10:46*	*1*
DCB Decachlorobiphenyl (Surr)	*78*		*23 - 150*	*07/18/17 03:42*	*07/18/17 10:46*	*1*
Tetrachloro-m-xylene (Surr)	*69*		*27 - 138*	*07/18/17 03:42*	*07/18/17 10:46*	*1*
Tetrachloro-m-xylene (Surr)	*68*		*27 - 138*	*07/18/17 03:42*	*07/18/17 10:46*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**7.6**		1.1	0.50	mg/Kg	☼	07/18/17 10:32	07/20/17 13:15	1
Barium	**80**		23	6.1	mg/Kg	☼	07/18/17 10:32	07/20/17 13:15	1
Beryllium	**0.41**	**J**	0.45	0.12	mg/Kg	☼	07/18/17 10:32	07/20/17 13:15	1
Cadmium	**0.16**	**J**	0.57	0.13	mg/Kg	☼	07/18/17 10:32	07/20/17 13:15	1
Chromium	**9.5**		0.57	0.15	mg/Kg	☼	07/18/17 10:32	07/20/17 13:15	1
Copper	**23**		2.8	0.87	mg/Kg	☼	07/18/17 10:32	07/20/17 13:15	1
Lead	**35**		1.1	0.37	mg/Kg	☼	07/18/17 10:32	07/20/17 13:15	1
Manganese	**410**		1.7	0.46	mg/Kg	☼	07/18/17 10:32	07/20/17 13:15	1
Nickel	**18**		4.5	1.0	mg/Kg	☼	07/18/17 10:32	07/20/17 13:15	1
Selenium	**0.83**	**J**	1.1	0.45	mg/Kg	☼	07/18/17 10:32	07/20/17 13:15	1
Silver	ND		0.57	0.19	mg/Kg	☼	07/18/17 10:32	07/20/17 13:15	1
Zinc	**62**		2.3	1.1	mg/Kg	☼	07/18/17 10:32	07/20/17 13:15	1

Client Sample ID: W6, S4, C 071317

Lab Sample ID: 180-68219-12
Date Collected: 07/13/17 09:25
Matrix: Solid
Date Received: 07/14/17 13:15
Percent Solids: 90.2

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.22		0.037	0.0083	mg/Kg	☼	07/18/17 14:51	07/19/17 12:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.8		0.1	0.1	%			07/17/17 14:15	1
Percent Solids	90.2		0.1	0.1	%			07/17/17 14:15	1
Cyanide, Total	ND		0.51	0.16	mg/Kg	☼	07/18/17 10:56	07/18/17 14:42	1

Client Sample ID: W6, S5, A 071317

Lab Sample ID: 180-68219-13
Date Collected: 07/13/17 09:45
Matrix: Solid
Date Received: 07/14/17 13:15
Percent Solids: 91.6

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.020	0.0031	mg/Kg	☼	07/20/17 05:54	07/20/17 11:31	1
Benzene	ND		0.0049	0.0019	mg/Kg	☼	07/20/17 05:54	07/20/17 11:31	1
2-Butanone (MEK)	ND		0.0049	0.0028	mg/Kg	☼	07/20/17 05:54	07/20/17 11:31	1
Carbon tetrachloride	ND		0.0049	0.0032	mg/Kg	☼	07/20/17 05:54	07/20/17 11:31	1
Chlorobenzene	ND		0.0049	0.0015	mg/Kg	☼	07/20/17 05:54	07/20/17 11:31	1
Chloroform	ND		0.0049	0.0021	mg/Kg	☼	07/20/17 05:54	07/20/17 11:31	1
cis-1,2-Dichloroethene	ND		0.0049	0.0015	mg/Kg	☼	07/20/17 05:54	07/20/17 11:31	1
1,2-Dichlorobenzene	ND		0.0049	0.0039	mg/Kg	☼	07/20/17 05:54	07/20/17 11:31	1
1,3-Dichlorobenzene	ND		0.0049	0.0016	mg/Kg	☼	07/20/17 05:54	07/20/17 11:31	1
1,4-Dichlorobenzene	ND		0.0049	0.0010	mg/Kg	☼	07/20/17 05:54	07/20/17 11:31	1
1,1-Dichloroethane	ND		0.0049	0.0018	mg/Kg	☼	07/20/17 05:54	07/20/17 11:31	1
1,2-Dichloroethane	ND		0.0049	0.0014	mg/Kg	☼	07/20/17 05:54	07/20/17 11:31	1
1,1-Dichloroethene	ND		0.0049	0.0028	mg/Kg	☼	07/20/17 05:54	07/20/17 11:31	1
Ethylbenzene	ND		0.0049	0.0021	mg/Kg	☼	07/20/17 05:54	07/20/17 11:31	1
Methylene Chloride	ND		0.0049	0.0023	mg/Kg	☼	07/20/17 05:54	07/20/17 11:31	1
Methyl tert-butyl ether	ND		0.0049	0.0036	mg/Kg	☼	07/20/17 05:54	07/20/17 11:31	1
n-Butylbenzene	ND		0.0049	0.0037	mg/Kg	☼	07/20/17 05:54	07/20/17 11:31	1
N-Propylbenzene	ND		0.0049	0.0021	mg/Kg	☼	07/20/17 05:54	07/20/17 11:31	1
sec-Butylbenzene	ND		0.0049	0.0024	mg/Kg	☼	07/20/17 05:54	07/20/17 11:31	1
tert-Butylbenzene	ND		0.0049	0.0018	mg/Kg	☼	07/20/17 05:54	07/20/17 11:31	1
Tetrachloroethene	ND		0.0049	0.0020	mg/Kg	☼	07/20/17 05:54	07/20/17 11:31	1
Toluene	ND		0.0049	0.0016	mg/Kg	☼	07/20/17 05:54	07/20/17 11:31	1
trans-1,2-Dichloroethene	ND		0.0049	0.0025	mg/Kg	☼	07/20/17 05:54	07/20/17 11:31	1
1,1,1-Trichloroethane	ND		0.0049	0.0025	mg/Kg	☼	07/20/17 05:54	07/20/17 11:31	1
Trichloroethene	ND		0.0049	0.0015	mg/Kg	☼	07/20/17 05:54	07/20/17 11:31	1
1,2,4-Trimethylbenzene	ND		0.0049	0.0013	mg/Kg	☼	07/20/17 05:54	07/20/17 11:31	1
1,3,5-Trimethylbenzene	ND		0.0049	0.0017	mg/Kg	☼	07/20/17 05:54	07/20/17 11:31	1
Vinyl chloride	ND		0.0049	0.0036	mg/Kg	☼	07/20/17 05:54	07/20/17 11:31	1
Xylenes, Total	ND		0.0098	0.0042	mg/Kg	☼	07/20/17 05:54	07/20/17 11:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*63 - 120*	*07/20/17 05:54*	*07/20/17 11:31*	*1*
Dibromofluoromethane (Surr)	*95*		*68 - 121*	*07/20/17 05:54*	*07/20/17 11:31*	*1*
1,2-Dichloroethane-d4 (Surr)	*87*		*52 - 124*	*07/20/17 05:54*	*07/20/17 11:31*	*1*
Toluene-d8 (Surr)	*115*		*72 - 127*	*07/20/17 05:54*	*07/20/17 11:31*	*1*

Client Sample ID: W6, S5, A 071317 — Lab Sample ID: 180-68219-13

Date Collected: 07/13/17 09:45 — **Matrix: Solid**
Date Received: 07/14/17 13:15 — **Percent Solids: 91.6**

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	8.4		0.1	0.1	%			07/17/17 14:15	1
Percent Solids	91.6		0.1	0.1	%			07/17/17 14:15	1

Client Sample ID: W6, S5, B 071317 — Lab Sample ID: 180-68219-14

Date Collected: 07/13/17 09:55 — **Matrix: Solid**
Date Received: 07/14/17 13:15 — **Percent Solids: 90.9**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.017	0.0028	mg/Kg	☼	07/20/17 05:54	07/20/17 11:09	1
Benzene	ND		0.0044	0.0017	mg/Kg	☼	07/20/17 05:54	07/20/17 11:09	1
2-Butanone (MEK)	ND		0.0044	0.0025	mg/Kg	☼	07/20/17 05:54	07/20/17 11:09	1
Carbon tetrachloride	ND		0.0044	0.0029	mg/Kg	☼	07/20/17 05:54	07/20/17 11:09	1
Chlorobenzene	ND		0.0044	0.0014	mg/Kg	☼	07/20/17 05:54	07/20/17 11:09	1
Chloroform	ND		0.0044	0.0018	mg/Kg	☼	07/20/17 05:54	07/20/17 11:09	1
cis-1,2-Dichloroethene	ND		0.0044	0.0014	mg/Kg	☼	07/20/17 05:54	07/20/17 11:09	1
1,2-Dichlorobenzene	ND		0.0044	0.0035	mg/Kg	☼	07/20/17 05:54	07/20/17 11:09	1
1,3-Dichlorobenzene	ND		0.0044	0.0014	mg/Kg	☼	07/20/17 05:54	07/20/17 11:09	1
1,4-Dichlorobenzene	ND		0.0044	0.00089	mg/Kg	☼	07/20/17 05:54	07/20/17 11:09	1
1,1-Dichloroethane	ND		0.0044	0.0016	mg/Kg	☼	07/20/17 05:54	07/20/17 11:09	1
1,2-Dichloroethane	ND		0.0044	0.0013	mg/Kg	☼	07/20/17 05:54	07/20/17 11:09	1
1,1-Dichloroethene	ND		0.0044	0.0025	mg/Kg	☼	07/20/17 05:54	07/20/17 11:09	1
Ethylbenzene	ND		0.0044	0.0019	mg/Kg	☼	07/20/17 05:54	07/20/17 11:09	1
Methylene Chloride	ND		0.0044	0.0021	mg/Kg	☼	07/20/17 05:54	07/20/17 11:09	1
Methyl tert-butyl ether	ND		0.0044	0.0032	mg/Kg	☼	07/20/17 05:54	07/20/17 11:09	1
n-Butylbenzene	ND		0.0044	0.0033	mg/Kg	☼	07/20/17 05:54	07/20/17 11:09	1
N-Propylbenzene	ND		0.0044	0.0018	mg/Kg	☼	07/20/17 05:54	07/20/17 11:09	1
sec-Butylbenzene	ND		0.0044	0.0021	mg/Kg	☼	07/20/17 05:54	07/20/17 11:09	1
tert-Butylbenzene	ND		0.0044	0.0016	mg/Kg	☼	07/20/17 05:54	07/20/17 11:09	1
Tetrachloroethene	ND		0.0044	0.0017	mg/Kg	☼	07/20/17 05:54	07/20/17 11:09	1
Toluene	ND		0.0044	0.0015	mg/Kg	☼	07/20/17 05:54	07/20/17 11:09	1
trans-1,2-Dichloroethene	ND		0.0044	0.0022	mg/Kg	☼	07/20/17 05:54	07/20/17 11:09	1
1,1,1-Trichloroethane	ND		0.0044	0.0022	mg/Kg	☼	07/20/17 05:54	07/20/17 11:09	1
Trichloroethene	ND		0.0044	0.0013	mg/Kg	☼	07/20/17 05:54	07/20/17 11:09	1
1,2,4-Trimethylbenzene	ND		0.0044	0.0012	mg/Kg	☼	07/20/17 05:54	07/20/17 11:09	1
1,3,5-Trimethylbenzene	ND		0.0044	0.0015	mg/Kg	☼	07/20/17 05:54	07/20/17 11:09	1
Vinyl chloride	ND		0.0044	0.0032	mg/Kg	☼	07/20/17 05:54	07/20/17 11:09	1
Xylenes, Total	ND		0.0087	0.0038	mg/Kg	☼	07/20/17 05:54	07/20/17 11:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*63 - 120*	*07/20/17 05:54*	*07/20/17 11:09*	*1*
Dibromofluoromethane (Surr)	*94*		*68 - 121*	*07/20/17 05:54*	*07/20/17 11:09*	*1*
1,2-Dichloroethane-d4 (Surr)	*84*		*52 - 124*	*07/20/17 05:54*	*07/20/17 11:09*	*1*
Toluene-d8 (Surr)	*111*		*72 - 127*	*07/20/17 05:54*	*07/20/17 11:09*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.1		0.1	0.1	%			07/17/17 14:15	1
Percent Solids	90.9		0.1	0.1	%			07/17/17 14:15	1

Client Sample ID: W6, S5, C 071317 **Lab Sample ID: 180-68219-15**
Date Collected: 07/13/17 10:00 **Matrix: Solid**
Date Received: 07/14/17 13:15 **Percent Solids: 91.8**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.028	0.0095	mg/Kg	☼	07/15/17 04:42	07/17/17 14:06	4
Acenaphthylene	**0.032**		0.028	0.0096	mg/Kg	☼	07/15/17 04:42	07/17/17 14:06	4
Anthracene	**0.066**		0.028	0.010	mg/Kg	☼	07/15/17 04:42	07/17/17 14:06	4
Benzo[a]anthracene	**0.19**		0.028	0.011	mg/Kg	☼	07/15/17 04:42	07/17/17 14:06	4
Benzo[a]pyrene	**0.17**		0.028	0.012	mg/Kg	☼	07/15/17 04:42	07/17/17 14:06	4
Benzo[b]fluoranthene	**0.25**		0.028	0.012	mg/Kg	☼	07/15/17 04:42	07/17/17 14:06	4
Benzo[g,h,i]perylene	**0.19**		0.028	0.012	mg/Kg	☼	07/15/17 04:42	07/17/17 14:06	4
Benzo[k]fluoranthene	**0.050**		0.028	0.0098	mg/Kg	☼	07/15/17 04:42	07/17/17 14:06	4
Chrysene	**0.18**		0.028	0.011	mg/Kg	☼	07/15/17 04:42	07/17/17 14:06	4
Dibenz(a,h)anthracene	**0.045**		0.028	0.012	mg/Kg	☼	07/15/17 04:42	07/17/17 14:06	4
Dibenzofuran	**0.014**	**J**	0.14	0.011	mg/Kg	☼	07/15/17 04:42	07/17/17 14:06	4
2,4-Dinitrotoluene	ND		0.14	0.019	mg/Kg	☼	07/15/17 04:42	07/17/17 14:06	4
1,4-Dioxane	ND		0.28	0.021	mg/Kg	☼	07/15/17 04:42	07/17/17 14:06	4
Fluoranthene	**0.33**		0.028	0.011	mg/Kg	☼	07/15/17 04:42	07/17/17 14:06	4
Fluorene	**0.012**	**J**	0.028	0.010	mg/Kg	☼	07/15/17 04:42	07/17/17 14:06	4
Hexachlorobenzene	ND		0.028	0.011	mg/Kg	☼	07/15/17 04:42	07/17/17 14:06	4
Hexachlorobutadiene	ND		0.028	0.0089	mg/Kg	☼	07/15/17 04:42	07/17/17 14:06	4
Hexachloroethane	ND		0.14	0.010	mg/Kg	☼	07/15/17 04:42	07/17/17 14:06	4
Indeno[1,2,3-cd]pyrene	**0.15**		0.028	0.011	mg/Kg	☼	07/15/17 04:42	07/17/17 14:06	4
2-Methylphenol	ND		0.14	0.012	mg/Kg	☼	07/15/17 04:42	07/17/17 14:06	4
Methylphenol, 3 & 4	ND		0.14	0.013	mg/Kg	☼	07/15/17 04:42	07/17/17 14:06	4
Naphthalene	**0.039**		0.028	0.010	mg/Kg	☼	07/15/17 04:42	07/17/17 14:06	4
Nitrobenzene	ND		0.28	0.011	mg/Kg	☼	07/15/17 04:42	07/17/17 14:06	4
Pentachlorophenol	ND		0.72	0.27	mg/Kg	☼	07/15/17 04:42	07/17/17 14:06	4
Phenanthrene	**0.17**		0.028	0.012	mg/Kg	☼	07/15/17 04:42	07/17/17 14:06	4
Phenol	ND		0.14	0.019	mg/Kg	☼	07/15/17 04:42	07/17/17 14:06	4
Pyrene	**0.30**		0.028	0.013	mg/Kg	☼	07/15/17 04:42	07/17/17 14:06	4
Pyridine	ND		0.14	0.014	mg/Kg	☼	07/15/17 04:42	07/17/17 14:06	4
2,4,5-Trichlorophenol	ND		0.14	0.013	mg/Kg	☼	07/15/17 04:42	07/17/17 14:06	4
2,4,6-Trichlorophenol	ND		0.14	0.012	mg/Kg	☼	07/15/17 04:42	07/17/17 14:06	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*59*		*42 - 100*	*07/15/17 04:42*	*07/17/17 14:06*	*4*
2-Fluorophenol (Surr)	*49*		*21 - 107*	*07/15/17 04:42*	*07/17/17 14:06*	*4*
Nitrobenzene-d5 (Surr)	*61*		*35 - 109*	*07/15/17 04:42*	*07/17/17 14:06*	*4*
Phenol-d5 (Surr)	*50*		*29 - 105*	*07/15/17 04:42*	*07/17/17 14:06*	*4*
Terphenyl-d14 (Surr)	*63*		*36 - 113*	*07/15/17 04:42*	*07/17/17 14:06*	*4*
2,4,6-Tribromophenol (Surr)	*53*		*20 - 134*	*07/15/17 04:42*	*07/17/17 14:06*	*4*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.018	0.0096	mg/Kg	☼	07/16/17 13:30	07/17/17 13:16	1
PCB-1221	ND		0.018	0.0094	mg/Kg	☼	07/16/17 13:30	07/17/17 13:16	1
PCB-1232	ND		0.018	0.0072	mg/Kg	☼	07/16/17 13:30	07/17/17 13:16	1
PCB-1242	ND		0.018	0.014	mg/Kg	☼	07/16/17 13:30	07/17/17 13:16	1
PCB-1248	**1.1**		0.018	0.0087	mg/Kg	☼	07/16/17 13:30	07/17/17 13:16	1
PCB-1254	**0.35**		0.018	0.0080	mg/Kg	☼	07/16/17 13:30	07/17/17 13:16	1
PCB-1260	**0.13**		0.018	0.012	mg/Kg	☼	07/16/17 13:30	07/17/17 13:16	1
PCB-1262	ND		0.018	0.013	mg/Kg	☼	07/16/17 13:30	07/17/17 13:16	1
PCB-1268	ND		0.018	0.0055	mg/Kg	☼	07/16/17 13:30	07/17/17 13:16	1

Client Sample ID: W6, S5, C 071317

Lab Sample ID: 180-68219-15

Date Collected: 07/13/17 10:00
Matrix: Solid
Date Received: 07/14/17 13:15
Percent Solids: 91.8

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*87*		*23 - 150*	*07/16/17 13:30*	*07/17/17 13:16*	*1*
DCB Decachlorobiphenyl (Surr)	*95*		*23 - 150*	*07/16/17 13:30*	*07/17/17 13:16*	*1*
Tetrachloro-m-xylene (Surr)	*90*		*27 - 138*	*07/16/17 13:30*	*07/17/17 13:16*	*1*
Tetrachloro-m-xylene (Surr)	*91*		*27 - 138*	*07/16/17 13:30*	*07/17/17 13:16*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**5.8**		1.1	0.48	mg/Kg	☼	07/18/17 10:32	07/20/17 13:30	1
Barium	**250**		22	5.8	mg/Kg	☼	07/18/17 10:32	07/20/17 13:30	1
Beryllium	**0.23**	**J**	0.44	0.11	mg/Kg	☼	07/18/17 10:32	07/20/17 13:30	1
Cadmium	ND		0.54	0.12	mg/Kg	☼	07/18/17 10:32	07/20/17 13:30	1
Chromium	**6.0**		0.54	0.14	mg/Kg	☼	07/18/17 10:32	07/20/17 13:30	1
Copper	**17**		2.7	0.84	mg/Kg	☼	07/18/17 10:32	07/20/17 13:30	1
Lead	**18**		1.1	0.36	mg/Kg	☼	07/18/17 10:32	07/20/17 13:30	1
Manganese	**390**		1.6	0.44	mg/Kg	☼	07/18/17 10:32	07/20/17 13:30	1
Nickel	**13**		4.4	0.98	mg/Kg	☼	07/18/17 10:32	07/20/17 13:30	1
Selenium	**1.3**		1.1	0.43	mg/Kg	☼	07/18/17 10:32	07/20/17 13:30	1
Silver	ND		0.54	0.18	mg/Kg	☼	07/18/17 10:32	07/20/17 13:30	1
Zinc	**42**		2.2	1.1	mg/Kg	☼	07/18/17 10:32	07/20/17 13:30	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.083**		0.035	0.0078	mg/Kg	☼	07/18/17 14:51	07/19/17 12:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**8.2**		0.1	0.1	%			07/17/17 12:16	1
Percent Solids	**91.8**		0.1	0.1	%			07/17/17 12:16	1
Cyanide, Total	ND		0.48	0.15	mg/Kg	☼	07/18/17 10:56	07/18/17 14:44	1

Client Sample ID: W7, S5, A 71317

Lab Sample ID: 180-68219-16

Date Collected: 07/13/17 10:15
Matrix: Solid
Date Received: 07/14/17 13:15
Percent Solids: 92.0

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.017	0.0026	mg/Kg	☼	07/20/17 05:54	07/20/17 10:46	1
Benzene	ND		0.0042	0.0016	mg/Kg	☼	07/20/17 05:54	07/20/17 10:46	1
2-Butanone (MEK)	ND		0.0042	0.0024	mg/Kg	☼	07/20/17 05:54	07/20/17 10:46	1
Carbon tetrachloride	ND		0.0042	0.0028	mg/Kg	☼	07/20/17 05:54	07/20/17 10:46	1
Chlorobenzene	ND		0.0042	0.0013	mg/Kg	☼	07/20/17 05:54	07/20/17 10:46	1
Chloroform	ND		0.0042	0.0018	mg/Kg	☼	07/20/17 05:54	07/20/17 10:46	1
cis-1,2-Dichloroethene	ND		0.0042	0.0013	mg/Kg	☼	07/20/17 05:54	07/20/17 10:46	1
1,2-Dichlorobenzene	ND		0.0042	0.0034	mg/Kg	☼	07/20/17 05:54	07/20/17 10:46	1
1,3-Dichlorobenzene	ND		0.0042	0.0013	mg/Kg	☼	07/20/17 05:54	07/20/17 10:46	1
1,4-Dichlorobenzene	ND		0.0042	0.00085	mg/Kg	☼	07/20/17 05:54	07/20/17 10:46	1
1,1-Dichloroethane	ND		0.0042	0.0015	mg/Kg	☼	07/20/17 05:54	07/20/17 10:46	1
1,2-Dichloroethane	ND		0.0042	0.0012	mg/Kg	☼	07/20/17 05:54	07/20/17 10:46	1
1,1-Dichloroethene	ND		0.0042	0.0024	mg/Kg	☼	07/20/17 05:54	07/20/17 10:46	1
Ethylbenzene	ND		0.0042	0.0018	mg/Kg	☼	07/20/17 05:54	07/20/17 10:46	1
Methylene Chloride	ND		0.0042	0.0020	mg/Kg	☼	07/20/17 05:54	07/20/17 10:46	1

Client Sample ID: W7, S5, A 71317 — Lab Sample ID: 180-68219-16

Date Collected: 07/13/17 10:15 — **Matrix: Solid**
Date Received: 07/14/17 13:15 — **Percent Solids: 92.0**

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.0042	0.0031	mg/Kg	☼	07/20/17 05:54	07/20/17 10:46	1
n-Butylbenzene	ND		0.0042	0.0032	mg/Kg	☼	07/20/17 05:54	07/20/17 10:46	1
N-Propylbenzene	ND		0.0042	0.0018	mg/Kg	☼	07/20/17 05:54	07/20/17 10:46	1
sec-Butylbenzene	ND		0.0042	0.0020	mg/Kg	☼	07/20/17 05:54	07/20/17 10:46	1
tert-Butylbenzene	ND		0.0042	0.0015	mg/Kg	☼	07/20/17 05:54	07/20/17 10:46	1
Tetrachloroethene	ND		0.0042	0.0017	mg/Kg	☼	07/20/17 05:54	07/20/17 10:46	1
Toluene	ND		0.0042	0.0014	mg/Kg	☼	07/20/17 05:54	07/20/17 10:46	1
trans-1,2-Dichloroethene	ND		0.0042	0.0021	mg/Kg	☼	07/20/17 05:54	07/20/17 10:46	1
1,1,1-Trichloroethane	ND		0.0042	0.0021	mg/Kg	☼	07/20/17 05:54	07/20/17 10:46	1
Trichloroethene	ND		0.0042	0.0013	mg/Kg	☼	07/20/17 05:54	07/20/17 10:46	1
1,2,4-Trimethylbenzene	ND		0.0042	0.0011	mg/Kg	☼	07/20/17 05:54	07/20/17 10:46	1
1,3,5-Trimethylbenzene	ND		0.0042	0.0014	mg/Kg	☼	07/20/17 05:54	07/20/17 10:46	1
Vinyl chloride	ND		0.0042	0.0031	mg/Kg	☼	07/20/17 05:54	07/20/17 10:46	1
Xylenes, Total	ND		0.0083	0.0036	mg/Kg	☼	07/20/17 05:54	07/20/17 10:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*63 - 120*	*07/20/17 05:54*	*07/20/17 10:46*	*1*
Dibromofluoromethane (Surr)	*98*		*68 - 121*	*07/20/17 05:54*	*07/20/17 10:46*	*1*
1,2-Dichloroethane-d4 (Surr)	*91*		*52 - 124*	*07/20/17 05:54*	*07/20/17 10:46*	*1*
Toluene-d8 (Surr)	*115*		*72 - 127*	*07/20/17 05:54*	*07/20/17 10:46*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**8.0**		0.1	0.1	%			07/17/17 14:15	1
Percent Solids	**92.0**		0.1	0.1	%			07/17/17 14:15	1

Client Sample ID: W7, S5, B 71317 — Lab Sample ID: 180-68219-17

Date Collected: 07/13/17 10:20 — **Matrix: Solid**
Date Received: 07/14/17 13:15 — **Percent Solids: 93.5**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.018	0.0029	mg/Kg	☼	07/20/17 05:54	07/20/17 10:23	1
Benzene	ND		0.0045	0.0018	mg/Kg	☼	07/20/17 05:54	07/20/17 10:23	1
2-Butanone (MEK)	ND		0.0045	0.0026	mg/Kg	☼	07/20/17 05:54	07/20/17 10:23	1
Carbon tetrachloride	ND		0.0045	0.0030	mg/Kg	☼	07/20/17 05:54	07/20/17 10:23	1
Chlorobenzene	ND		0.0045	0.0014	mg/Kg	☼	07/20/17 05:54	07/20/17 10:23	1
Chloroform	ND		0.0045	0.0019	mg/Kg	☼	07/20/17 05:54	07/20/17 10:23	1
cis-1,2-Dichloroethene	ND		0.0045	0.0014	mg/Kg	☼	07/20/17 05:54	07/20/17 10:23	1
1,2-Dichlorobenzene	ND		0.0045	0.0037	mg/Kg	☼	07/20/17 05:54	07/20/17 10:23	1
1,3-Dichlorobenzene	ND		0.0045	0.0014	mg/Kg	☼	07/20/17 05:54	07/20/17 10:23	1
1,4-Dichlorobenzene	ND		0.0045	0.00093	mg/Kg	☼	07/20/17 05:54	07/20/17 10:23	1
1,1-Dichloroethane	ND		0.0045	0.0016	mg/Kg	☼	07/20/17 05:54	07/20/17 10:23	1
1,2-Dichloroethane	ND		0.0045	0.0013	mg/Kg	☼	07/20/17 05:54	07/20/17 10:23	1
1,1-Dichloroethene	ND		0.0045	0.0026	mg/Kg	☼	07/20/17 05:54	07/20/17 10:23	1
Ethylbenzene	ND		0.0045	0.0020	mg/Kg	☼	07/20/17 05:54	07/20/17 10:23	1
Methylene Chloride	ND		0.0045	0.0021	mg/Kg	☼	07/20/17 05:54	07/20/17 10:23	1
Methyl tert-butyl ether	ND		0.0045	0.0033	mg/Kg	☼	07/20/17 05:54	07/20/17 10:23	1
n-Butylbenzene	ND		0.0045	0.0034	mg/Kg	☼	07/20/17 05:54	07/20/17 10:23	1
N-Propylbenzene	ND		0.0045	0.0019	mg/Kg	☼	07/20/17 05:54	07/20/17 10:23	1

Client Sample ID: W7, S5, B 71317 — Lab Sample ID: 180-68219-17

Date Collected: 07/13/17 10:20 — **Matrix: Solid**
Date Received: 07/14/17 13:15 — **Percent Solids: 93.5**

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		0.0045	0.0022	mg/Kg	☼	07/20/17 05:54	07/20/17 10:23	1
tert-Butylbenzene	ND		0.0045	0.0017	mg/Kg	☼	07/20/17 05:54	07/20/17 10:23	1
Tetrachloroethene	ND		0.0045	0.0018	mg/Kg	☼	07/20/17 05:54	07/20/17 10:23	1
Toluene	ND		0.0045	0.0015	mg/Kg	☼	07/20/17 05:54	07/20/17 10:23	1
trans-1,2-Dichloroethene	ND		0.0045	0.0023	mg/Kg	☼	07/20/17 05:54	07/20/17 10:23	1
1,1,1-Trichloroethane	ND		0.0045	0.0023	mg/Kg	☼	07/20/17 05:54	07/20/17 10:23	1
Trichloroethene	ND		0.0045	0.0014	mg/Kg	☼	07/20/17 05:54	07/20/17 10:23	1
1,2,4-Trimethylbenzene	ND		0.0045	0.0012	mg/Kg	☼	07/20/17 05:54	07/20/17 10:23	1
1,3,5-Trimethylbenzene	ND		0.0045	0.0016	mg/Kg	☼	07/20/17 05:54	07/20/17 10:23	1
Vinyl chloride	ND		0.0045	0.0033	mg/Kg	☼	07/20/17 05:54	07/20/17 10:23	1
Xylenes, Total	ND		0.0091	0.0039	mg/Kg	☼	07/20/17 05:54	07/20/17 10:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*63 - 120*	*07/20/17 05:54*	*07/20/17 10:23*	*1*
Dibromofluoromethane (Surr)	*94*		*68 - 121*	*07/20/17 05:54*	*07/20/17 10:23*	*1*
1,2-Dichloroethane-d4 (Surr)	*85*		*52 - 124*	*07/20/17 05:54*	*07/20/17 10:23*	*1*
Toluene-d8 (Surr)	*113*		*72 - 127*	*07/20/17 05:54*	*07/20/17 10:23*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**6.5**		0.1	0.1	%			07/17/17 14:15	1
Percent Solids	**93.5**		0.1	0.1	%			07/17/17 14:15	1

Client Sample ID: W7, S5, C 71317 — Lab Sample ID: 180-68219-18

Date Collected: 07/13/17 10:25 — **Matrix: Solid**
Date Received: 07/14/17 13:15 — **Percent Solids: 91.6**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0071	0.0024	mg/Kg	☼	07/15/17 04:42	07/17/17 14:33	1
Acenaphthylene	**0.017**		0.0071	0.0024	mg/Kg	☼	07/15/17 04:42	07/17/17 14:33	1
Anthracene	**0.033**		0.0071	0.0026	mg/Kg	☼	07/15/17 04:42	07/17/17 14:33	1
Benzo[a]anthracene	**0.16**		0.0071	0.0028	mg/Kg	☼	07/15/17 04:42	07/17/17 14:33	1
Benzo[a]pyrene	**0.18**		0.0071	0.0029	mg/Kg	☼	07/15/17 04:42	07/17/17 14:33	1
Benzo[b]fluoranthene	**0.21**		0.0071	0.0031	mg/Kg	☼	07/15/17 04:42	07/17/17 14:33	1
Benzo[g,h,i]perylene	**0.16**		0.0071	0.0031	mg/Kg	☼	07/15/17 04:42	07/17/17 14:33	1
Benzo[k]fluoranthene	**0.069**		0.0071	0.0024	mg/Kg	☼	07/15/17 04:42	07/17/17 14:33	1
Chrysene	**0.14**		0.0071	0.0028	mg/Kg	☼	07/15/17 04:42	07/17/17 14:33	1
Dibenz(a,h)anthracene	**0.039**		0.0071	0.0029	mg/Kg	☼	07/15/17 04:42	07/17/17 14:33	1
Dibenzofuran	**0.0045**	**J**	0.035	0.0028	mg/Kg	☼	07/15/17 04:42	07/17/17 14:33	1
2,4-Dinitrotoluene	ND		0.035	0.0047	mg/Kg	☼	07/15/17 04:42	07/17/17 14:33	1
1,4-Dioxane	ND		0.070	0.0053	mg/Kg	☼	07/15/17 04:42	07/17/17 14:33	1
Fluoranthene	**0.24**		0.0071	0.0028	mg/Kg	☼	07/15/17 04:42	07/17/17 14:33	1
Fluorene	**0.0031**	**J**	0.0071	0.0025	mg/Kg	☼	07/15/17 04:42	07/17/17 14:33	1
Hexachlorobenzene	ND		0.0071	0.0028	mg/Kg	☼	07/15/17 04:42	07/17/17 14:33	1
Hexachlorobutadiene	ND		0.0071	0.0022	mg/Kg	☼	07/15/17 04:42	07/17/17 14:33	1
Hexachloroethane	ND		0.035	0.0025	mg/Kg	☼	07/15/17 04:42	07/17/17 14:33	1
Indeno[1,2,3-cd]pyrene	**0.14**		0.0071	0.0027	mg/Kg	☼	07/15/17 04:42	07/17/17 14:33	1
2-Methylphenol	ND		0.035	0.0031	mg/Kg	☼	07/15/17 04:42	07/17/17 14:33	1
Methylphenol, 3 & 4	ND		0.035	0.0031	mg/Kg	☼	07/15/17 04:42	07/17/17 14:33	1

Client Sample ID: W7, S5, C 71317
Date Collected: 07/13/17 10:25
Date Received: 07/14/17 13:15

Lab Sample ID: 180-68219-18
Matrix: Solid
Percent Solids: 91.6

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**0.016**		0.0071	0.0025	mg/Kg	☼	07/15/17 04:42	07/17/17 14:33	1
Nitrobenzene	ND		0.070	0.0027	mg/Kg	☼	07/15/17 04:42	07/17/17 14:33	1
Pentachlorophenol	ND		0.18	0.067	mg/Kg	☼	07/15/17 04:42	07/17/17 14:33	1
Phenanthrene	**0.072**		0.0071	0.0029	mg/Kg	☼	07/15/17 04:42	07/17/17 14:33	1
Phenol	ND		0.035	0.0048	mg/Kg	☼	07/15/17 04:42	07/17/17 14:33	1
Pyrene	**0.22**		0.0071	0.0031	mg/Kg	☼	07/15/17 04:42	07/17/17 14:33	1
Pyridine	ND		0.035	0.0034	mg/Kg	☼	07/15/17 04:42	07/17/17 14:33	1
2,4,5-Trichlorophenol	ND		0.035	0.0034	mg/Kg	☼	07/15/17 04:42	07/17/17 14:33	1
2,4,6-Trichlorophenol	ND		0.035	0.0031	mg/Kg	☼	07/15/17 04:42	07/17/17 14:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*55*		*42 - 100*	*07/15/17 04:42*	*07/17/17 14:33*	*1*
2-Fluorophenol (Surr)	*48*		*21 - 107*	*07/15/17 04:42*	*07/17/17 14:33*	*1*
Nitrobenzene-d5 (Surr)	*58*		*35 - 109*	*07/15/17 04:42*	*07/17/17 14:33*	*1*
Phenol-d5 (Surr)	*47*		*29 - 105*	*07/15/17 04:42*	*07/17/17 14:33*	*1*
Terphenyl-d14 (Surr)	*54*		*36 - 113*	*07/15/17 04:42*	*07/17/17 14:33*	*1*
2,4,6-Tribromophenol (Surr)	*57*		*20 - 134*	*07/15/17 04:42*	*07/17/17 14:33*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.018	0.0095	mg/Kg	☼	07/16/17 13:30	07/17/17 13:36	1
PCB-1221	ND		0.018	0.0093	mg/Kg	☼	07/16/17 13:30	07/17/17 13:36	1
PCB-1232	ND		0.018	0.0071	mg/Kg	☼	07/16/17 13:30	07/17/17 13:36	1
PCB-1242	ND		0.018	0.014	mg/Kg	☼	07/16/17 13:30	07/17/17 13:36	1
PCB-1248	**0.24**		0.018	0.0086	mg/Kg	☼	07/16/17 13:30	07/17/17 13:36	1
PCB-1254	**0.12**		0.018	0.0079	mg/Kg	☼	07/16/17 13:30	07/17/17 13:36	1
PCB-1260	**0.047**		0.018	0.012	mg/Kg	☼	07/16/17 13:30	07/17/17 13:36	1
PCB-1262	ND		0.018	0.013	mg/Kg	☼	07/16/17 13:30	07/17/17 13:36	1
PCB-1268	ND		0.018	0.0055	mg/Kg	☼	07/16/17 13:30	07/17/17 13:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*87*		*23 - 150*	*07/16/17 13:30*	*07/17/17 13:36*	*1*
DCB Decachlorobiphenyl (Surr)	*98*		*23 - 150*	*07/16/17 13:30*	*07/17/17 13:36*	*1*
Tetrachloro-m-xylene (Surr)	*87*		*27 - 138*	*07/16/17 13:30*	*07/17/17 13:36*	*1*
Tetrachloro-m-xylene (Surr)	*83*		*27 - 138*	*07/16/17 13:30*	*07/17/17 13:36*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**5.5**		1.1	0.51	mg/Kg	☼	07/18/17 10:32	07/20/17 13:35	1
Barium	**52**		23	6.2	mg/Kg	☼	07/18/17 10:32	07/20/17 13:35	1
Beryllium	**0.30**	**J**	0.46	0.12	mg/Kg	☼	07/18/17 10:32	07/20/17 13:35	1
Cadmium	ND		0.57	0.13	mg/Kg	☼	07/18/17 10:32	07/20/17 13:35	1
Chromium	**7.5**		0.57	0.15	mg/Kg	☼	07/18/17 10:32	07/20/17 13:35	1
Copper	**21**		2.9	0.88	mg/Kg	☼	07/18/17 10:32	07/20/17 13:35	1
Lead	**18**		1.1	0.38	mg/Kg	☼	07/18/17 10:32	07/20/17 13:35	1
Manganese	**490**		1.7	0.47	mg/Kg	☼	07/18/17 10:32	07/20/17 13:35	1
Nickel	**14**		4.6	1.0	mg/Kg	☼	07/18/17 10:32	07/20/17 13:35	1
Selenium	ND		1.1	0.46	mg/Kg	☼	07/18/17 10:32	07/20/17 13:35	1
Silver	ND		0.57	0.19	mg/Kg	☼	07/18/17 10:32	07/20/17 13:35	1
Zinc	**52**		2.3	1.2	mg/Kg	☼	07/18/17 10:32	07/20/17 13:35	1

Client Sample ID: W7, S5, C 71317

Lab Sample ID: 180-68219-18
Date Collected: 07/13/17 10:25
Matrix: Solid
Date Received: 07/14/17 13:15
Percent Solids: 91.6

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.047		0.038	0.0085	mg/Kg	☼	07/18/17 14:51	07/19/17 12:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	8.4		0.1	0.1	%			07/17/17 12:16	1
Percent Solids	91.6		0.1	0.1	%			07/17/17 12:16	1
Cyanide, Total	ND		0.53	0.16	mg/Kg	☼	07/18/17 10:56	07/18/17 14:45	1

Client Sample ID: W7, S4, A 71317

Lab Sample ID: 180-68219-19
Date Collected: 07/13/17 10:45
Matrix: Solid
Date Received: 07/14/17 13:15
Percent Solids: 93.0

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.019	0.0030	mg/Kg	☼	07/20/17 05:54	07/20/17 10:01	1
Benzene	ND		0.0048	0.0019	mg/Kg	☼	07/20/17 05:54	07/20/17 10:01	1
2-Butanone (MEK)	ND		0.0048	0.0028	mg/Kg	☼	07/20/17 05:54	07/20/17 10:01	1
Carbon tetrachloride	ND		0.0048	0.0032	mg/Kg	☼	07/20/17 05:54	07/20/17 10:01	1
Chlorobenzene	ND		0.0048	0.0015	mg/Kg	☼	07/20/17 05:54	07/20/17 10:01	1
Chloroform	ND		0.0048	0.0020	mg/Kg	☼	07/20/17 05:54	07/20/17 10:01	1
cis-1,2-Dichloroethene	ND		0.0048	0.0015	mg/Kg	☼	07/20/17 05:54	07/20/17 10:01	1
1,2-Dichlorobenzene	ND		0.0048	0.0039	mg/Kg	☼	07/20/17 05:54	07/20/17 10:01	1
1,3-Dichlorobenzene	ND		0.0048	0.0015	mg/Kg	☼	07/20/17 05:54	07/20/17 10:01	1
1,4-Dichlorobenzene	ND		0.0048	0.00098	mg/Kg	☼	07/20/17 05:54	07/20/17 10:01	1
1,1-Dichloroethane	ND		0.0048	0.0017	mg/Kg	☼	07/20/17 05:54	07/20/17 10:01	1
1,2-Dichloroethane	ND		0.0048	0.0014	mg/Kg	☼	07/20/17 05:54	07/20/17 10:01	1
1,1-Dichloroethene	ND		0.0048	0.0027	mg/Kg	☼	07/20/17 05:54	07/20/17 10:01	1
Ethylbenzene	ND		0.0048	0.0021	mg/Kg	☼	07/20/17 05:54	07/20/17 10:01	1
Methylene Chloride	ND		0.0048	0.0023	mg/Kg	☼	07/20/17 05:54	07/20/17 10:01	1
Methyl tert-butyl ether	ND		0.0048	0.0035	mg/Kg	☼	07/20/17 05:54	07/20/17 10:01	1
n-Butylbenzene	ND		0.0048	0.0036	mg/Kg	☼	07/20/17 05:54	07/20/17 10:01	1
N-Propylbenzene	ND		0.0048	0.0020	mg/Kg	☼	07/20/17 05:54	07/20/17 10:01	1
sec-Butylbenzene	ND		0.0048	0.0023	mg/Kg	☼	07/20/17 05:54	07/20/17 10:01	1
tert-Butylbenzene	ND		0.0048	0.0018	mg/Kg	☼	07/20/17 05:54	07/20/17 10:01	1
Tetrachloroethene	ND		0.0048	0.0019	mg/Kg	☼	07/20/17 05:54	07/20/17 10:01	1
Toluene	ND		0.0048	0.0016	mg/Kg	☼	07/20/17 05:54	07/20/17 10:01	1
trans-1,2-Dichloroethene	ND		0.0048	0.0024	mg/Kg	☼	07/20/17 05:54	07/20/17 10:01	1
1,1,1-Trichloroethane	ND		0.0048	0.0024	mg/Kg	☼	07/20/17 05:54	07/20/17 10:01	1
Trichloroethene	ND		0.0048	0.0014	mg/Kg	☼	07/20/17 05:54	07/20/17 10:01	1
1,2,4-Trimethylbenzene	ND		0.0048	0.0013	mg/Kg	☼	07/20/17 05:54	07/20/17 10:01	1
1,3,5-Trimethylbenzene	ND		0.0048	0.0017	mg/Kg	☼	07/20/17 05:54	07/20/17 10:01	1
Vinyl chloride	ND		0.0048	0.0035	mg/Kg	☼	07/20/17 05:54	07/20/17 10:01	1
Xylenes, Total	ND		0.0096	0.0041	mg/Kg	☼	07/20/17 05:54	07/20/17 10:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*63 - 120*	*07/20/17 05:54*	*07/20/17 10:01*	*1*
Dibromofluoromethane (Surr)	*92*		*68 - 121*	*07/20/17 05:54*	*07/20/17 10:01*	*1*
1,2-Dichloroethane-d4 (Surr)	*84*		*52 - 124*	*07/20/17 05:54*	*07/20/17 10:01*	*1*
Toluene-d8 (Surr)	*113*		*72 - 127*	*07/20/17 05:54*	*07/20/17 10:01*	*1*

Client Sample ID: W7, S4, A 71317 — Lab Sample ID: 180-68219-19

Date Collected: 07/13/17 10:45 — **Matrix: Solid**
Date Received: 07/14/17 13:15 — **Percent Solids: 93.0**

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	7.0		0.1	0.1	%			07/17/17 14:15	1
Percent Solids	93.0		0.1	0.1	%			07/17/17 14:15	1

Client Sample ID: W7, S4, B 71317 — Lab Sample ID: 180-68219-20

Date Collected: 07/13/17 10:50 — **Matrix: Solid**
Date Received: 07/14/17 13:15 — **Percent Solids: 92.9**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.017	0.0026	mg/Kg	☼	07/19/17 05:28	07/19/17 16:57	1
Benzene	ND		0.0041	0.0016	mg/Kg	☼	07/19/17 05:28	07/19/17 16:57	1
2-Butanone (MEK)	ND		0.0041	0.0024	mg/Kg	☼	07/19/17 05:28	07/19/17 16:57	1
Carbon tetrachloride	ND		0.0041	0.0027	mg/Kg	☼	07/19/17 05:28	07/19/17 16:57	1
Chlorobenzene	ND		0.0041	0.0013	mg/Kg	☼	07/19/17 05:28	07/19/17 16:57	1
Chloroform	ND		0.0041	0.0017	mg/Kg	☼	07/19/17 05:28	07/19/17 16:57	1
cis-1,2-Dichloroethene	ND		0.0041	0.0013	mg/Kg	☼	07/19/17 05:28	07/19/17 16:57	1
1,2-Dichlorobenzene	ND		0.0041	0.0033	mg/Kg	☼	07/19/17 05:28	07/19/17 16:57	1
1,3-Dichlorobenzene	ND		0.0041	0.0013	mg/Kg	☼	07/19/17 05:28	07/19/17 16:57	1
1,4-Dichlorobenzene	ND		0.0041	0.00084	mg/Kg	☼	07/19/17 05:28	07/19/17 16:57	1
1,1-Dichloroethane	ND		0.0041	0.0015	mg/Kg	☼	07/19/17 05:28	07/19/17 16:57	1
1,2-Dichloroethane	ND		0.0041	0.0012	mg/Kg	☼	07/19/17 05:28	07/19/17 16:57	1
1,1-Dichloroethene	ND		0.0041	0.0024	mg/Kg	☼	07/19/17 05:28	07/19/17 16:57	1
Ethylbenzene	ND		0.0041	0.0018	mg/Kg	☼	07/19/17 05:28	07/19/17 16:57	1
Methylene Chloride	ND		0.0041	0.0019	mg/Kg	☼	07/19/17 05:28	07/19/17 16:57	1
Methyl tert-butyl ether	ND		0.0041	0.0030	mg/Kg	☼	07/19/17 05:28	07/19/17 16:57	1
n-Butylbenzene	ND		0.0041	0.0031	mg/Kg	☼	07/19/17 05:28	07/19/17 16:57	1
N-Propylbenzene	ND		0.0041	0.0017	mg/Kg	☼	07/19/17 05:28	07/19/17 16:57	1
sec-Butylbenzene	ND		0.0041	0.0020	mg/Kg	☼	07/19/17 05:28	07/19/17 16:57	1
tert-Butylbenzene	ND		0.0041	0.0015	mg/Kg	☼	07/19/17 05:28	07/19/17 16:57	1
Tetrachloroethene	ND		0.0041	0.0017	mg/Kg	☼	07/19/17 05:28	07/19/17 16:57	1
Toluene	ND		0.0041	0.0014	mg/Kg	☼	07/19/17 05:28	07/19/17 16:57	1
trans-1,2-Dichloroethene	ND		0.0041	0.0021	mg/Kg	☼	07/19/17 05:28	07/19/17 16:57	1
1,1,1-Trichloroethane	ND		0.0041	0.0021	mg/Kg	☼	07/19/17 05:28	07/19/17 16:57	1
Trichloroethene	ND		0.0041	0.0012	mg/Kg	☼	07/19/17 05:28	07/19/17 16:57	1
1,2,4-Trimethylbenzene	ND		0.0041	0.0011	mg/Kg	☼	07/19/17 05:28	07/19/17 16:57	1
1,3,5-Trimethylbenzene	ND		0.0041	0.0014	mg/Kg	☼	07/19/17 05:28	07/19/17 16:57	1
Vinyl chloride	ND		0.0041	0.0030	mg/Kg	☼	07/19/17 05:28	07/19/17 16:57	1
Xylenes, Total	ND		0.0083	0.0036	mg/Kg	☼	07/19/17 05:28	07/19/17 16:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*63 - 120*	*07/19/17 05:28*	*07/19/17 16:57*	*1*
Dibromofluoromethane (Surr)	*94*		*68 - 121*	*07/19/17 05:28*	*07/19/17 16:57*	*1*
1,2-Dichloroethane-d4 (Surr)	*87*		*52 - 124*	*07/19/17 05:28*	*07/19/17 16:57*	*1*
Toluene-d8 (Surr)	*116*		*72 - 127*	*07/19/17 05:28*	*07/19/17 16:57*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	7.1		0.1	0.1	%			07/17/17 14:15	1
Percent Solids	92.9		0.1	0.1	%			07/17/17 14:15	1

Client Sample ID: W7, S4, C 71317
Date Collected: 07/13/17 10:55
Date Received: 07/14/17 13:15

Lab Sample ID: 180-68219-21
Matrix: Solid
Percent Solids: 91.7

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.036	0.012	mg/Kg	☼	07/18/17 03:38	07/18/17 19:23	5
Acenaphthylene	**0.044**		0.036	0.012	mg/Kg	☼	07/18/17 03:38	07/18/17 19:23	5
Anthracene	**0.083**		0.036	0.013	mg/Kg	☼	07/18/17 03:38	07/18/17 19:23	5
Benzo[a]anthracene	**0.35**		0.036	0.014	mg/Kg	☼	07/18/17 03:38	07/18/17 19:23	5
Benzo[a]pyrene	**0.30**		0.036	0.015	mg/Kg	☼	07/18/17 03:38	07/18/17 19:23	5
Benzo[b]fluoranthene	**0.36**		0.036	0.015	mg/Kg	☼	07/18/17 03:38	07/18/17 19:23	5
Benzo[g,h,i]perylene	**0.24**		0.036	0.015	mg/Kg	☼	07/18/17 03:38	07/18/17 19:23	5
Benzo[k]fluoranthene	**0.14**		0.036	0.012	mg/Kg	☼	07/18/17 03:38	07/18/17 19:23	5
Chrysene	**0.30**		0.036	0.014	mg/Kg	☼	07/18/17 03:38	07/18/17 19:23	5
Dibenz(a,h)anthracene	**0.063**		0.036	0.015	mg/Kg	☼	07/18/17 03:38	07/18/17 19:23	5
Dibenzofuran	ND		0.18	0.014	mg/Kg	☼	07/18/17 03:38	07/18/17 19:23	5
2,4-Dinitrotoluene	ND		0.18	0.023	mg/Kg	☼	07/18/17 03:38	07/18/17 19:23	5
1,4-Dioxane	ND		0.35	0.027	mg/Kg	☼	07/18/17 03:38	07/18/17 19:23	5
Fluoranthene	**0.49**		0.036	0.014	mg/Kg	☼	07/18/17 03:38	07/18/17 19:23	5
Fluorene	ND		0.036	0.013	mg/Kg	☼	07/18/17 03:38	07/18/17 19:23	5
Hexachlorobenzene	ND		0.036	0.014	mg/Kg	☼	07/18/17 03:38	07/18/17 19:23	5
Hexachlorobutadiene	ND		0.036	0.011	mg/Kg	☼	07/18/17 03:38	07/18/17 19:23	5
Hexachloroethane	ND		0.18	0.013	mg/Kg	☼	07/18/17 03:38	07/18/17 19:23	5
Indeno[1,2,3-cd]pyrene	**0.21**		0.036	0.014	mg/Kg	☼	07/18/17 03:38	07/18/17 19:23	5
2-Methylphenol	ND		0.18	0.016	mg/Kg	☼	07/18/17 03:38	07/18/17 19:23	5
Methylphenol, 3 & 4	ND		0.18	0.016	mg/Kg	☼	07/18/17 03:38	07/18/17 19:23	5
Naphthalene	**0.029**	**J**	0.036	0.013	mg/Kg	☼	07/18/17 03:38	07/18/17 19:23	5
Nitrobenzene	ND		0.35	0.014	mg/Kg	☼	07/18/17 03:38	07/18/17 19:23	5
Pentachlorophenol	ND		0.90	0.33	mg/Kg	☼	07/18/17 03:38	07/18/17 19:23	5
Phenanthrene	**0.28**		0.036	0.015	mg/Kg	☼	07/18/17 03:38	07/18/17 19:23	5
Phenol	ND		0.18	0.024	mg/Kg	☼	07/18/17 03:38	07/18/17 19:23	5
Pyrene	**0.52**		0.036	0.016	mg/Kg	☼	07/18/17 03:38	07/18/17 19:23	5
Pyridine	ND		0.18	0.017	mg/Kg	☼	07/18/17 03:38	07/18/17 19:23	5
2,4,5-Trichlorophenol	ND		0.18	0.017	mg/Kg	☼	07/18/17 03:38	07/18/17 19:23	5
2,4,6-Trichlorophenol	ND		0.18	0.016	mg/Kg	☼	07/18/17 03:38	07/18/17 19:23	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*63*		*42 - 100*	*07/18/17 03:38*	*07/18/17 19:23*	*5*
2-Fluorophenol (Surr)	*50*		*21 - 107*	*07/18/17 03:38*	*07/18/17 19:23*	*5*
Nitrobenzene-d5 (Surr)	*58*		*35 - 109*	*07/18/17 03:38*	*07/18/17 19:23*	*5*
Phenol-d5 (Surr)	*53*		*29 - 105*	*07/18/17 03:38*	*07/18/17 19:23*	*5*
Terphenyl-d14 (Surr)	*67*		*36 - 113*	*07/18/17 03:38*	*07/18/17 19:23*	*5*
2,4,6-Tribromophenol (Surr)	*65*		*20 - 134*	*07/18/17 03:38*	*07/18/17 19:23*	*5*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.018	0.0095	mg/Kg	☼	07/18/17 03:42	07/18/17 11:07	1
PCB-1221	ND		0.018	0.0093	mg/Kg	☼	07/18/17 03:42	07/18/17 11:07	1
PCB-1232	ND		0.018	0.0071	mg/Kg	☼	07/18/17 03:42	07/18/17 11:07	1
PCB-1242	ND		0.018	0.014	mg/Kg	☼	07/18/17 03:42	07/18/17 11:07	1
PCB-1248	**0.69**		0.018	0.0086	mg/Kg	☼	07/18/17 03:42	07/18/17 11:07	1
PCB-1254	**0.36**		0.018	0.0079	mg/Kg	☼	07/18/17 03:42	07/18/17 11:07	1
PCB-1260	**0.099**		0.018	0.012	mg/Kg	☼	07/18/17 03:42	07/18/17 11:07	1
PCB-1262	ND		0.018	0.013	mg/Kg	☼	07/18/17 03:42	07/18/17 11:07	1
PCB-1268	ND		0.018	0.0055	mg/Kg	☼	07/18/17 03:42	07/18/17 11:07	1

Client Sample ID: W7, S4, C 71317

Lab Sample ID: 180-68219-21

Date Collected: 07/13/17 10:55

Matrix: Solid

Date Received: 07/14/17 13:15

Percent Solids: 91.7

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*69*		*23 - 150*	*07/18/17 03:42*	*07/18/17 11:07*	*1*
DCB Decachlorobiphenyl (Surr)	*77*		*23 - 150*	*07/18/17 03:42*	*07/18/17 11:07*	*1*
Tetrachloro-m-xylene (Surr)	*68*		*27 - 138*	*07/18/17 03:42*	*07/18/17 11:07*	*1*
Tetrachloro-m-xylene (Surr)	*66*		*27 - 138*	*07/18/17 03:42*	*07/18/17 11:07*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**4.8**		1.1	0.48	mg/Kg	☼	07/18/17 10:32	07/20/17 13:41	1
Barium	**40**		22	5.9	mg/Kg	☼	07/18/17 10:32	07/20/17 13:41	1
Beryllium	**0.26**	**J**	0.44	0.11	mg/Kg	☼	07/18/17 10:32	07/20/17 13:41	1
Cadmium	ND		0.55	0.12	mg/Kg	☼	07/18/17 10:32	07/20/17 13:41	1
Chromium	**6.8**		0.55	0.14	mg/Kg	☼	07/18/17 10:32	07/20/17 13:41	1
Copper	**17**		2.7	0.84	mg/Kg	☼	07/18/17 10:32	07/20/17 13:41	1
Lead	**17**		1.1	0.36	mg/Kg	☼	07/18/17 10:32	07/20/17 13:41	1
Manganese	**300**		1.6	0.44	mg/Kg	☼	07/18/17 10:32	07/20/17 13:41	1
Nickel	**12**		4.4	0.98	mg/Kg	☼	07/18/17 10:32	07/20/17 13:41	1
Selenium	ND		1.1	0.43	mg/Kg	☼	07/18/17 10:32	07/20/17 13:41	1
Silver	ND		0.55	0.18	mg/Kg	☼	07/18/17 10:32	07/20/17 13:41	1
Zinc	**47**		2.2	1.1	mg/Kg	☼	07/18/17 10:32	07/20/17 13:41	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.040**		0.037	0.0083	mg/Kg	☼	07/18/17 14:51	07/19/17 12:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**8.3**		0.1	0.1	%			07/17/17 14:15	1
Percent Solids	**91.7**		0.1	0.1	%			07/17/17 14:15	1
Cyanide, Total	**0.39**	**J**	0.52	0.16	mg/Kg	☼	07/18/17 10:56	07/18/17 14:47	1

Client Sample ID: W7, S3, A 71317

Lab Sample ID: 180-68219-22

Date Collected: 07/13/17 11:30

Matrix: Solid

Date Received: 07/14/17 13:15

Percent Solids: 90.5

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.017	0.0027	mg/Kg	☼	07/19/17 05:28	07/19/17 16:34	1
Benzene	ND		0.0042	0.0017	mg/Kg	☼	07/19/17 05:28	07/19/17 16:34	1
2-Butanone (MEK)	ND		0.0042	0.0025	mg/Kg	☼	07/19/17 05:28	07/19/17 16:34	1
Carbon tetrachloride	ND		0.0042	0.0028	mg/Kg	☼	07/19/17 05:28	07/19/17 16:34	1
Chlorobenzene	ND		0.0042	0.0013	mg/Kg	☼	07/19/17 05:28	07/19/17 16:34	1
Chloroform	ND		0.0042	0.0018	mg/Kg	☼	07/19/17 05:28	07/19/17 16:34	1
cis-1,2-Dichloroethene	ND		0.0042	0.0013	mg/Kg	☼	07/19/17 05:28	07/19/17 16:34	1
1,2-Dichlorobenzene	ND		0.0042	0.0034	mg/Kg	☼	07/19/17 05:28	07/19/17 16:34	1
1,3-Dichlorobenzene	ND		0.0042	0.0013	mg/Kg	☼	07/19/17 05:28	07/19/17 16:34	1
1,4-Dichlorobenzene	ND		0.0042	0.00086	mg/Kg	☼	07/19/17 05:28	07/19/17 16:34	1
1,1-Dichloroethane	ND		0.0042	0.0015	mg/Kg	☼	07/19/17 05:28	07/19/17 16:34	1
1,2-Dichloroethane	ND		0.0042	0.0012	mg/Kg	☼	07/19/17 05:28	07/19/17 16:34	1
1,1-Dichloroethene	ND		0.0042	0.0024	mg/Kg	☼	07/19/17 05:28	07/19/17 16:34	1
Ethylbenzene	ND		0.0042	0.0018	mg/Kg	☼	07/19/17 05:28	07/19/17 16:34	1
Methylene Chloride	ND		0.0042	0.0020	mg/Kg	☼	07/19/17 05:28	07/19/17 16:34	1

Client Sample ID: W7, S3, A 71317 — Lab Sample ID: 180-68219-22

Date Collected: 07/13/17 11:30 — **Matrix: Solid**
Date Received: 07/14/17 13:15 — **Percent Solids: 90.5**

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.0042	0.0031	mg/Kg	☼	07/19/17 05:28	07/19/17 16:34	1
n-Butylbenzene	ND		0.0042	0.0032	mg/Kg	☼	07/19/17 05:28	07/19/17 16:34	1
N-Propylbenzene	ND		0.0042	0.0018	mg/Kg	☼	07/19/17 05:28	07/19/17 16:34	1
sec-Butylbenzene	ND		0.0042	0.0021	mg/Kg	☼	07/19/17 05:28	07/19/17 16:34	1
tert-Butylbenzene	ND		0.0042	0.0015	mg/Kg	☼	07/19/17 05:28	07/19/17 16:34	1
Tetrachloroethene	ND		0.0042	0.0017	mg/Kg	☼	07/19/17 05:28	07/19/17 16:34	1
Toluene	ND		0.0042	0.0014	mg/Kg	☼	07/19/17 05:28	07/19/17 16:34	1
trans-1,2-Dichloroethene	ND		0.0042	0.0021	mg/Kg	☼	07/19/17 05:28	07/19/17 16:34	1
1,1,1-Trichloroethane	ND		0.0042	0.0021	mg/Kg	☼	07/19/17 05:28	07/19/17 16:34	1
Trichloroethene	ND		0.0042	0.0013	mg/Kg	☼	07/19/17 05:28	07/19/17 16:34	1
1,2,4-Trimethylbenzene	ND		0.0042	0.0011	mg/Kg	☼	07/19/17 05:28	07/19/17 16:34	1
1,3,5-Trimethylbenzene	ND		0.0042	0.0015	mg/Kg	☼	07/19/17 05:28	07/19/17 16:34	1
Vinyl chloride	ND		0.0042	0.0031	mg/Kg	☼	07/19/17 05:28	07/19/17 16:34	1
Xylenes, Total	ND		0.0085	0.0036	mg/Kg	☼	07/19/17 05:28	07/19/17 16:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*63 - 120*	*07/19/17 05:28*	*07/19/17 16:34*	*1*
Dibromofluoromethane (Surr)	*93*		*68 - 121*	*07/19/17 05:28*	*07/19/17 16:34*	*1*
1,2-Dichloroethane-d4 (Surr)	*86*		*52 - 124*	*07/19/17 05:28*	*07/19/17 16:34*	*1*
Toluene-d8 (Surr)	*113*		*72 - 127*	*07/19/17 05:28*	*07/19/17 16:34*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.5**		0.1	0.1	%			07/17/17 14:15	1
Percent Solids	**90.5**		0.1	0.1	%			07/17/17 14:15	1

Client Sample ID: W7, S3, B 71317 — Lab Sample ID: 180-68219-23

Date Collected: 07/13/17 11:35 — **Matrix: Solid**
Date Received: 07/14/17 13:15 — **Percent Solids: 89.5**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.018	0.0028	mg/Kg	☼	07/19/17 05:28	07/19/17 16:11	1
Benzene	ND		0.0045	0.0018	mg/Kg	☼	07/19/17 05:28	07/19/17 16:11	1
2-Butanone (MEK)	ND		0.0045	0.0026	mg/Kg	☼	07/19/17 05:28	07/19/17 16:11	1
Carbon tetrachloride	ND		0.0045	0.0030	mg/Kg	☼	07/19/17 05:28	07/19/17 16:11	1
Chlorobenzene	ND		0.0045	0.0014	mg/Kg	☼	07/19/17 05:28	07/19/17 16:11	1
Chloroform	ND		0.0045	0.0019	mg/Kg	☼	07/19/17 05:28	07/19/17 16:11	1
cis-1,2-Dichloroethene	ND		0.0045	0.0014	mg/Kg	☼	07/19/17 05:28	07/19/17 16:11	1
1,2-Dichlorobenzene	ND		0.0045	0.0036	mg/Kg	☼	07/19/17 05:28	07/19/17 16:11	1
1,3-Dichlorobenzene	ND		0.0045	0.0014	mg/Kg	☼	07/19/17 05:28	07/19/17 16:11	1
1,4-Dichlorobenzene	ND		0.0045	0.00092	mg/Kg	☼	07/19/17 05:28	07/19/17 16:11	1
1,1-Dichloroethane	ND		0.0045	0.0016	mg/Kg	☼	07/19/17 05:28	07/19/17 16:11	1
1,2-Dichloroethane	ND		0.0045	0.0013	mg/Kg	☼	07/19/17 05:28	07/19/17 16:11	1
1,1-Dichloroethene	ND		0.0045	0.0026	mg/Kg	☼	07/19/17 05:28	07/19/17 16:11	1
Ethylbenzene	ND		0.0045	0.0019	mg/Kg	☼	07/19/17 05:28	07/19/17 16:11	1
Methylene Chloride	ND		0.0045	0.0021	mg/Kg	☼	07/19/17 05:28	07/19/17 16:11	1
Methyl tert-butyl ether	ND		0.0045	0.0033	mg/Kg	☼	07/19/17 05:28	07/19/17 16:11	1
n-Butylbenzene	ND		0.0045	0.0034	mg/Kg	☼	07/19/17 05:28	07/19/17 16:11	1
N-Propylbenzene	ND		0.0045	0.0019	mg/Kg	☼	07/19/17 05:28	07/19/17 16:11	1

Client Sample ID: W7, S3, B 71317 — Lab Sample ID: 180-68219-23

Date Collected: 07/13/17 11:35 — **Matrix: Solid**
Date Received: 07/14/17 13:15 — **Percent Solids: 89.5**

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		0.0045	0.0022	mg/Kg	☼	07/19/17 05:28	07/19/17 16:11	1
tert-Butylbenzene	ND		0.0045	0.0016	mg/Kg	☼	07/19/17 05:28	07/19/17 16:11	1
Tetrachloroethene	ND		0.0045	0.0018	mg/Kg	☼	07/19/17 05:28	07/19/17 16:11	1
Toluene	ND		0.0045	0.0015	mg/Kg	☼	07/19/17 05:28	07/19/17 16:11	1
trans-1,2-Dichloroethene	ND		0.0045	0.0023	mg/Kg	☼	07/19/17 05:28	07/19/17 16:11	1
1,1,1-Trichloroethane	ND		0.0045	0.0023	mg/Kg	☼	07/19/17 05:28	07/19/17 16:11	1
Trichloroethene	ND		0.0045	0.0013	mg/Kg	☼	07/19/17 05:28	07/19/17 16:11	1
1,2,4-Trimethylbenzene	ND		0.0045	0.0012	mg/Kg	☼	07/19/17 05:28	07/19/17 16:11	1
1,3,5-Trimethylbenzene	ND		0.0045	0.0015	mg/Kg	☼	07/19/17 05:28	07/19/17 16:11	1
Vinyl chloride	ND		0.0045	0.0033	mg/Kg	☼	07/19/17 05:28	07/19/17 16:11	1
Xylenes, Total	ND		0.0090	0.0039	mg/Kg	☼	07/19/17 05:28	07/19/17 16:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*63 - 120*	*07/19/17 05:28*	*07/19/17 16:11*	*1*
Dibromofluoromethane (Surr)	*91*		*68 - 121*	*07/19/17 05:28*	*07/19/17 16:11*	*1*
1,2-Dichloroethane-d4 (Surr)	*84*		*52 - 124*	*07/19/17 05:28*	*07/19/17 16:11*	*1*
Toluene-d8 (Surr)	*112*		*72 - 127*	*07/19/17 05:28*	*07/19/17 16:11*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**10.5**		0.1	0.1	%			07/17/17 14:15	1
Percent Solids	**89.5**		0.1	0.1	%			07/17/17 14:15	1

Client Sample ID: W7, S3, C 71317 — Lab Sample ID: 180-68219-24

Date Collected: 07/13/17 11:40 — **Matrix: Solid**
Date Received: 07/14/17 13:15 — **Percent Solids: 89.6**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0074	0.0025	mg/Kg	☼	07/15/17 04:42	07/17/17 15:01	1
Acenaphthylene	**0.020**		0.0074	0.0025	mg/Kg	☼	07/15/17 04:42	07/17/17 15:01	1
Anthracene	**0.045**		0.0074	0.0027	mg/Kg	☼	07/15/17 04:42	07/17/17 15:01	1
Benzo[a]anthracene	**0.15**		0.0074	0.0029	mg/Kg	☼	07/15/17 04:42	07/17/17 15:01	1
Benzo[a]pyrene	**0.15**		0.0074	0.0031	mg/Kg	☼	07/15/17 04:42	07/17/17 15:01	1
Benzo[b]fluoranthene	**0.16**		0.0074	0.0032	mg/Kg	☼	07/15/17 04:42	07/17/17 15:01	1
Benzo[g,h,i]perylene	**0.14**		0.0074	0.0032	mg/Kg	☼	07/15/17 04:42	07/17/17 15:01	1
Benzo[k]fluoranthene	**0.077**		0.0074	0.0026	mg/Kg	☼	07/15/17 04:42	07/17/17 15:01	1
Chrysene	**0.13**		0.0074	0.0029	mg/Kg	☼	07/15/17 04:42	07/17/17 15:01	1
Dibenz(a,h)anthracene	**0.035**		0.0074	0.0031	mg/Kg	☼	07/15/17 04:42	07/17/17 15:01	1
Dibenzofuran	**0.0069**	**J**	0.037	0.0030	mg/Kg	☼	07/15/17 04:42	07/17/17 15:01	1
2,4-Dinitrotoluene	ND		0.037	0.0049	mg/Kg	☼	07/15/17 04:42	07/17/17 15:01	1
1,4-Dioxane	ND		0.074	0.0056	mg/Kg	☼	07/15/17 04:42	07/17/17 15:01	1
Fluoranthene	**0.26**		0.0074	0.0029	mg/Kg	☼	07/15/17 04:42	07/17/17 15:01	1
Fluorene	**0.0070**	**J**	0.0074	0.0026	mg/Kg	☼	07/15/17 04:42	07/17/17 15:01	1
Hexachlorobenzene	ND		0.0074	0.0030	mg/Kg	☼	07/15/17 04:42	07/17/17 15:01	1
Hexachlorobutadiene	ND		0.0074	0.0023	mg/Kg	☼	07/15/17 04:42	07/17/17 15:01	1
Hexachloroethane	ND		0.037	0.0027	mg/Kg	☼	07/15/17 04:42	07/17/17 15:01	1
Indeno[1,2,3-cd]pyrene	**0.13**		0.0074	0.0029	mg/Kg	☼	07/15/17 04:42	07/17/17 15:01	1
2-Methylphenol	ND		0.037	0.0033	mg/Kg	☼	07/15/17 04:42	07/17/17 15:01	1
Methylphenol, 3 & 4	**0.0055**	**J**	0.037	0.0033	mg/Kg	☼	07/15/17 04:42	07/17/17 15:01	1

Client Sample ID: W7, S3, C 71317 **Lab Sample ID: 180-68219-24**
Date Collected: 07/13/17 11:40 **Matrix: Solid**
Date Received: 07/14/17 13:15 **Percent Solids: 89.6**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**0.022**		0.0074	0.0027	mg/Kg	☼	07/15/17 04:42	07/17/17 15:01	1
Nitrobenzene	ND		0.074	0.0028	mg/Kg	☼	07/15/17 04:42	07/17/17 15:01	1
Pentachlorophenol	ND		0.19	0.070	mg/Kg	☼	07/15/17 04:42	07/17/17 15:01	1
Phenanthrene	**0.15**		0.0074	0.0031	mg/Kg	☼	07/15/17 04:42	07/17/17 15:01	1
Phenol	ND		0.037	0.0050	mg/Kg	☼	07/15/17 04:42	07/17/17 15:01	1
Pyrene	**0.23**		0.0074	0.0033	mg/Kg	☼	07/15/17 04:42	07/17/17 15:01	1
Pyridine	ND		0.037	0.0035	mg/Kg	☼	07/15/17 04:42	07/17/17 15:01	1
2,4,5-Trichlorophenol	ND		0.037	0.0035	mg/Kg	☼	07/15/17 04:42	07/17/17 15:01	1
2,4,6-Trichlorophenol	ND		0.037	0.0032	mg/Kg	☼	07/15/17 04:42	07/17/17 15:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*64*		*42 - 100*	*07/15/17 04:42*	*07/17/17 15:01*	*1*
2-Fluorophenol (Surr)	*53*		*21 - 107*	*07/15/17 04:42*	*07/17/17 15:01*	*1*
Nitrobenzene-d5 (Surr)	*62*		*35 - 109*	*07/15/17 04:42*	*07/17/17 15:01*	*1*
Phenol-d5 (Surr)	*51*		*29 - 105*	*07/15/17 04:42*	*07/17/17 15:01*	*1*
Terphenyl-d14 (Surr)	*58*		*36 - 113*	*07/15/17 04:42*	*07/17/17 15:01*	*1*
2,4,6-Tribromophenol (Surr)	*60*		*20 - 134*	*07/15/17 04:42*	*07/17/17 15:01*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.019	0.0099	mg/Kg	☼	07/16/17 13:30	07/17/17 13:56	1
PCB-1221	ND		0.019	0.0096	mg/Kg	☼	07/16/17 13:30	07/17/17 13:56	1
PCB-1232	ND		0.019	0.0074	mg/Kg	☼	07/16/17 13:30	07/17/17 13:56	1
PCB-1242	ND		0.019	0.015	mg/Kg	☼	07/16/17 13:30	07/17/17 13:56	1
PCB-1248	**0.50**		0.019	0.0089	mg/Kg	☼	07/16/17 13:30	07/17/17 13:56	1
PCB-1254	**0.24**		0.019	0.0082	mg/Kg	☼	07/16/17 13:30	07/17/17 13:56	1
PCB-1260	**0.092**		0.019	0.012	mg/Kg	☼	07/16/17 13:30	07/17/17 13:56	1
PCB-1262	ND		0.019	0.013	mg/Kg	☼	07/16/17 13:30	07/17/17 13:56	1
PCB-1268	ND		0.019	0.0057	mg/Kg	☼	07/16/17 13:30	07/17/17 13:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*83*		*23 - 150*	*07/16/17 13:30*	*07/17/17 13:56*	*1*
DCB Decachlorobiphenyl (Surr)	*92*		*23 - 150*	*07/16/17 13:30*	*07/17/17 13:56*	*1*
Tetrachloro-m-xylene (Surr)	*79*		*27 - 138*	*07/16/17 13:30*	*07/17/17 13:56*	*1*
Tetrachloro-m-xylene (Surr)	*78*		*27 - 138*	*07/16/17 13:30*	*07/17/17 13:56*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**7.4**		1.2	0.52	mg/Kg	☼	07/18/17 10:32	07/20/17 13:46	1
Barium	**78**		24	6.4	mg/Kg	☼	07/18/17 10:32	07/20/17 13:46	1
Beryllium	**0.40**	**J**	0.47	0.12	mg/Kg	☼	07/18/17 10:32	07/20/17 13:46	1
Cadmium	**0.16**	**J**	0.59	0.13	mg/Kg	☼	07/18/17 10:32	07/20/17 13:46	1
Chromium	**11**		0.59	0.15	mg/Kg	☼	07/18/17 10:32	07/20/17 13:46	1
Copper	**23**		3.0	0.91	mg/Kg	☼	07/18/17 10:32	07/20/17 13:46	1
Lead	**24**		1.2	0.39	mg/Kg	☼	07/18/17 10:32	07/20/17 13:46	1
Manganese	**470**		1.8	0.48	mg/Kg	☼	07/18/17 10:32	07/20/17 13:46	1
Nickel	**18**		4.7	1.1	mg/Kg	☼	07/18/17 10:32	07/20/17 13:46	1
Selenium	ND		1.2	0.47	mg/Kg	☼	07/18/17 10:32	07/20/17 13:46	1
Silver	ND		0.59	0.20	mg/Kg	☼	07/18/17 10:32	07/20/17 13:46	1
Zinc	**67**		2.4	1.2	mg/Kg	☼	07/18/17 10:32	07/20/17 13:46	1

Client Sample ID: W7, S3, C 71317

Lab Sample ID: 180-68219-24
Date Collected: 07/13/17 11:40
Matrix: Solid
Date Received: 07/14/17 13:15
Percent Solids: 89.6

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.043		0.042	0.0095	mg/Kg	☼	07/18/17 14:51	07/19/17 12:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	10.4		0.1	0.1	%			07/17/17 12:16	1
Percent Solids	89.6		0.1	0.1	%			07/17/17 12:16	1
Cyanide, Total	ND		0.50	0.15	mg/Kg	☼	07/18/17 10:56	07/18/17 14:49	1

Client Sample ID: W7, S2, A 71317

Lab Sample ID: 180-68219-25
Date Collected: 07/13/17 11:55
Matrix: Solid
Date Received: 07/14/17 13:15
Percent Solids: 90.2

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.017	0.0026	mg/Kg	☼	07/19/17 05:28	07/19/17 15:48	1
Benzene	ND		0.0042	0.0016	mg/Kg	☼	07/19/17 05:28	07/19/17 15:48	1
2-Butanone (MEK)	ND		0.0042	0.0024	mg/Kg	☼	07/19/17 05:28	07/19/17 15:48	1
Carbon tetrachloride	ND		0.0042	0.0028	mg/Kg	☼	07/19/17 05:28	07/19/17 15:48	1
Chlorobenzene	ND		0.0042	0.0013	mg/Kg	☼	07/19/17 05:28	07/19/17 15:48	1
Chloroform	ND		0.0042	0.0018	mg/Kg	☼	07/19/17 05:28	07/19/17 15:48	1
cis-1,2-Dichloroethene	ND		0.0042	0.0013	mg/Kg	☼	07/19/17 05:28	07/19/17 15:48	1
1,2-Dichlorobenzene	ND		0.0042	0.0033	mg/Kg	☼	07/19/17 05:28	07/19/17 15:48	1
1,3-Dichlorobenzene	ND		0.0042	0.0013	mg/Kg	☼	07/19/17 05:28	07/19/17 15:48	1
1,4-Dichlorobenzene	ND		0.0042	0.00085	mg/Kg	☼	07/19/17 05:28	07/19/17 15:48	1
1,1-Dichloroethane	ND		0.0042	0.0015	mg/Kg	☼	07/19/17 05:28	07/19/17 15:48	1
1,2-Dichloroethane	ND		0.0042	0.0012	mg/Kg	☼	07/19/17 05:28	07/19/17 15:48	1
1,1-Dichloroethene	ND		0.0042	0.0024	mg/Kg	☼	07/19/17 05:28	07/19/17 15:48	1
Ethylbenzene	ND		0.0042	0.0018	mg/Kg	☼	07/19/17 05:28	07/19/17 15:48	1
Methylene Chloride	ND		0.0042	0.0020	mg/Kg	☼	07/19/17 05:28	07/19/17 15:48	1
Methyl tert-butyl ether	ND		0.0042	0.0031	mg/Kg	☼	07/19/17 05:28	07/19/17 15:48	1
n-Butylbenzene	ND		0.0042	0.0031	mg/Kg	☼	07/19/17 05:28	07/19/17 15:48	1
N-Propylbenzene	ND		0.0042	0.0018	mg/Kg	☼	07/19/17 05:28	07/19/17 15:48	1
sec-Butylbenzene	ND		0.0042	0.0020	mg/Kg	☼	07/19/17 05:28	07/19/17 15:48	1
tert-Butylbenzene	ND		0.0042	0.0015	mg/Kg	☼	07/19/17 05:28	07/19/17 15:48	1
Tetrachloroethene	ND		0.0042	0.0017	mg/Kg	☼	07/19/17 05:28	07/19/17 15:48	1
Toluene	ND		0.0042	0.0014	mg/Kg	☼	07/19/17 05:28	07/19/17 15:48	1
trans-1,2-Dichloroethene	ND		0.0042	0.0021	mg/Kg	☼	07/19/17 05:28	07/19/17 15:48	1
1,1,1-Trichloroethane	ND		0.0042	0.0021	mg/Kg	☼	07/19/17 05:28	07/19/17 15:48	1
Trichloroethene	ND		0.0042	0.0012	mg/Kg	☼	07/19/17 05:28	07/19/17 15:48	1
1,2,4-Trimethylbenzene	ND		0.0042	0.0011	mg/Kg	☼	07/19/17 05:28	07/19/17 15:48	1
1,3,5-Trimethylbenzene	ND		0.0042	0.0014	mg/Kg	☼	07/19/17 05:28	07/19/17 15:48	1
Vinyl chloride	ND		0.0042	0.0030	mg/Kg	☼	07/19/17 05:28	07/19/17 15:48	1
Xylenes, Total	ND		0.0083	0.0036	mg/Kg	☼	07/19/17 05:28	07/19/17 15:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*63 - 120*	*07/19/17 05:28*	*07/19/17 15:48*	*1*
Dibromofluoromethane (Surr)	*98*		*68 - 121*	*07/19/17 05:28*	*07/19/17 15:48*	*1*
1,2-Dichloroethane-d4 (Surr)	*90*		*52 - 124*	*07/19/17 05:28*	*07/19/17 15:48*	*1*
Toluene-d8 (Surr)	*119*		*72 - 127*	*07/19/17 05:28*	*07/19/17 15:48*	*1*

Client Sample ID: W7, S2, A 71317 — Lab Sample ID: 180-68219-25

Date Collected: 07/13/17 11:55 — **Matrix: Solid**
Date Received: 07/14/17 13:15 — **Percent Solids: 90.2**

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.8		0.1	0.1	%			07/17/17 14:15	1
Percent Solids	90.2		0.1	0.1	%			07/17/17 14:15	1

Client Sample ID: W7, S2, B 71317 — Lab Sample ID: 180-68219-26

Date Collected: 07/13/17 12:00 — **Matrix: Solid**
Date Received: 07/14/17 13:15 — **Percent Solids: 87.4**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.021	0.0033	mg/Kg	☼	07/19/17 05:28	07/19/17 15:26	1
Benzene	ND		0.0052	0.0021	mg/Kg	☼	07/19/17 05:28	07/19/17 15:26	1
2-Butanone (MEK)	ND		0.0052	0.0030	mg/Kg	☼	07/19/17 05:28	07/19/17 15:26	1
Carbon tetrachloride	ND		0.0052	0.0035	mg/Kg	☼	07/19/17 05:28	07/19/17 15:26	1
Chlorobenzene	ND		0.0052	0.0016	mg/Kg	☼	07/19/17 05:28	07/19/17 15:26	1
Chloroform	ND		0.0052	0.0022	mg/Kg	☼	07/19/17 05:28	07/19/17 15:26	1
cis-1,2-Dichloroethene	ND		0.0052	0.0016	mg/Kg	☼	07/19/17 05:28	07/19/17 15:26	1
1,2-Dichlorobenzene	ND		0.0052	0.0042	mg/Kg	☼	07/19/17 05:28	07/19/17 15:26	1
1,3-Dichlorobenzene	ND		0.0052	0.0017	mg/Kg	☼	07/19/17 05:28	07/19/17 15:26	1
1,4-Dichlorobenzene	ND		0.0052	0.0011	mg/Kg	☼	07/19/17 05:28	07/19/17 15:26	1
1,1-Dichloroethane	ND		0.0052	0.0019	mg/Kg	☼	07/19/17 05:28	07/19/17 15:26	1
1,2-Dichloroethane	ND		0.0052	0.0015	mg/Kg	☼	07/19/17 05:28	07/19/17 15:26	1
1,1-Dichloroethene	ND		0.0052	0.0030	mg/Kg	☼	07/19/17 05:28	07/19/17 15:26	1
Ethylbenzene	ND		0.0052	0.0023	mg/Kg	☼	07/19/17 05:28	07/19/17 15:26	1
Methylene Chloride	ND		0.0052	0.0025	mg/Kg	☼	07/19/17 05:28	07/19/17 15:26	1
Methyl tert-butyl ether	ND		0.0052	0.0039	mg/Kg	☼	07/19/17 05:28	07/19/17 15:26	1
n-Butylbenzene	ND		0.0052	0.0040	mg/Kg	☼	07/19/17 05:28	07/19/17 15:26	1
N-Propylbenzene	ND		0.0052	0.0022	mg/Kg	☼	07/19/17 05:28	07/19/17 15:26	1
sec-Butylbenzene	ND		0.0052	0.0026	mg/Kg	☼	07/19/17 05:28	07/19/17 15:26	1
tert-Butylbenzene	ND		0.0052	0.0019	mg/Kg	☼	07/19/17 05:28	07/19/17 15:26	1
Tetrachloroethene	ND		0.0052	0.0021	mg/Kg	☼	07/19/17 05:28	07/19/17 15:26	1
Toluene	ND		0.0052	0.0018	mg/Kg	☼	07/19/17 05:28	07/19/17 15:26	1
trans-1,2-Dichloroethene	ND		0.0052	0.0027	mg/Kg	☼	07/19/17 05:28	07/19/17 15:26	1
1,1,1-Trichloroethane	ND		0.0052	0.0026	mg/Kg	☼	07/19/17 05:28	07/19/17 15:26	1
Trichloroethene	ND		0.0052	0.0016	mg/Kg	☼	07/19/17 05:28	07/19/17 15:26	1
1,2,4-Trimethylbenzene	ND		0.0052	0.0014	mg/Kg	☼	07/19/17 05:28	07/19/17 15:26	1
1,3,5-Trimethylbenzene	ND		0.0052	0.0018	mg/Kg	☼	07/19/17 05:28	07/19/17 15:26	1
Vinyl chloride	ND		0.0052	0.0038	mg/Kg	☼	07/19/17 05:28	07/19/17 15:26	1
Xylenes, Total	ND		0.010	0.0045	mg/Kg	☼	07/19/17 05:28	07/19/17 15:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*63 - 120*	*07/19/17 05:28*	*07/19/17 15:26*	*1*
Dibromofluoromethane (Surr)	*89*		*68 - 121*	*07/19/17 05:28*	*07/19/17 15:26*	*1*
1,2-Dichloroethane-d4 (Surr)	*82*		*52 - 124*	*07/19/17 05:28*	*07/19/17 15:26*	*1*
Toluene-d8 (Surr)	*112*		*72 - 127*	*07/19/17 05:28*	*07/19/17 15:26*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	12.6		0.1	0.1	%			07/17/17 14:15	1
Percent Solids	87.4		0.1	0.1	%			07/17/17 14:15	1

Client Sample ID: W7, S2, C 71317
Date Collected: 07/13/17 12:05
Date Received: 07/14/17 13:15

Lab Sample ID: 180-68219-27
Matrix: Solid
Percent Solids: 89.6

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.75	0.25	mg/Kg	☼	07/15/17 04:42	07/17/17 15:28	100
Acenaphthylene	**1.2**		0.75	0.25	mg/Kg	☼	07/15/17 04:42	07/17/17 15:28	100
Anthracene	**6.0**		0.75	0.27	mg/Kg	☼	07/15/17 04:42	07/17/17 15:28	100
Benzo[a]anthracene	**12**		0.75	0.30	mg/Kg	☼	07/15/17 04:42	07/17/17 15:28	100
Benzo[a]pyrene	**9.8**		0.75	0.31	mg/Kg	☼	07/15/17 04:42	07/17/17 15:28	100
Benzo[b]fluoranthene	**12**		0.75	0.32	mg/Kg	☼	07/15/17 04:42	07/17/17 15:28	100
Benzo[g,h,i]perylene	**7.3**		0.75	0.32	mg/Kg	☼	07/15/17 04:42	07/17/17 15:28	100
Benzo[k]fluoranthene	**3.4**		0.75	0.26	mg/Kg	☼	07/15/17 04:42	07/17/17 15:28	100
Chrysene	**9.3**		0.75	0.29	mg/Kg	☼	07/15/17 04:42	07/17/17 15:28	100
Dibenz(a,h)anthracene	**2.0**		0.75	0.31	mg/Kg	☼	07/15/17 04:42	07/17/17 15:28	100
Dibenzofuran	**0.57**	**J**	3.7	0.30	mg/Kg	☼	07/15/17 04:42	07/17/17 15:28	100
2,4-Dinitrotoluene	ND		3.7	0.49	mg/Kg	☼	07/15/17 04:42	07/17/17 15:28	100
1,4-Dioxane	ND		7.4	0.56	mg/Kg	☼	07/15/17 04:42	07/17/17 15:28	100
Fluoranthene	**24**		0.75	0.29	mg/Kg	☼	07/15/17 04:42	07/17/17 15:28	100
Fluorene	**0.92**		0.75	0.27	mg/Kg	☼	07/15/17 04:42	07/17/17 15:28	100
Hexachlorobenzene	ND		0.75	0.30	mg/Kg	☼	07/15/17 04:42	07/17/17 15:28	100
Hexachlorobutadiene	ND		0.75	0.23	mg/Kg	☼	07/15/17 04:42	07/17/17 15:28	100
Hexachloroethane	ND		3.7	0.27	mg/Kg	☼	07/15/17 04:42	07/17/17 15:28	100
Indeno[1,2,3-cd]pyrene	**7.0**		0.75	0.29	mg/Kg	☼	07/15/17 04:42	07/17/17 15:28	100
2-Methylphenol	ND		3.7	0.33	mg/Kg	☼	07/15/17 04:42	07/17/17 15:28	100
Methylphenol, 3 & 4	ND		3.7	0.33	mg/Kg	☼	07/15/17 04:42	07/17/17 15:28	100
Naphthalene	**0.57**	**J**	0.75	0.27	mg/Kg	☼	07/15/17 04:42	07/17/17 15:28	100
Nitrobenzene	ND		7.4	0.28	mg/Kg	☼	07/15/17 04:42	07/17/17 15:28	100
Pentachlorophenol	ND		19	7.0	mg/Kg	☼	07/15/17 04:42	07/17/17 15:28	100
Phenanthrene	**19**		0.75	0.31	mg/Kg	☼	07/15/17 04:42	07/17/17 15:28	100
Phenol	ND		3.7	0.50	mg/Kg	☼	07/15/17 04:42	07/17/17 15:28	100
Pyrene	**21**		0.75	0.33	mg/Kg	☼	07/15/17 04:42	07/17/17 15:28	100
Pyridine	ND		3.7	0.36	mg/Kg	☼	07/15/17 04:42	07/17/17 15:28	100
2,4,5-Trichlorophenol	ND		3.7	0.35	mg/Kg	☼	07/15/17 04:42	07/17/17 15:28	100
2,4,6-Trichlorophenol	ND		3.7	0.33	mg/Kg	☼	07/15/17 04:42	07/17/17 15:28	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*0*	*X D*	*42 - 100*	*07/15/17 04:42*	*07/17/17 15:28*	*100*
2-Fluorophenol (Surr)	*0*	*X D*	*21 - 107*	*07/15/17 04:42*	*07/17/17 15:28*	*100*
Nitrobenzene-d5 (Surr)	*0*	*X D*	*35 - 109*	*07/15/17 04:42*	*07/17/17 15:28*	*100*
Phenol-d5 (Surr)	*0*	*X D*	*29 - 105*	*07/15/17 04:42*	*07/17/17 15:28*	*100*
Terphenyl-d14 (Surr)	*0*	*X D*	*36 - 113*	*07/15/17 04:42*	*07/17/17 15:28*	*100*
2,4,6-Tribromophenol (Surr)	*0*	*X D*	*20 - 134*	*07/15/17 04:42*	*07/17/17 15:28*	*100*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.018	0.0097	mg/Kg	☼	07/16/17 13:30	07/18/17 09:07	1
PCB-1221	ND		0.018	0.0094	mg/Kg	☼	07/16/17 13:30	07/18/17 09:07	1
PCB-1232	ND		0.018	0.0072	mg/Kg	☼	07/16/17 13:30	07/18/17 09:07	1
PCB-1242	ND		0.018	0.014	mg/Kg	☼	07/16/17 13:30	07/18/17 09:07	1
PCB-1248	**1.5**		0.018	0.0087	mg/Kg	☼	07/16/17 13:30	07/18/17 09:07	1
PCB-1254	**0.53**		0.018	0.0080	mg/Kg	☼	07/16/17 13:30	07/18/17 09:07	1
PCB-1260	**0.19**		0.018	0.012	mg/Kg	☼	07/16/17 13:30	07/18/17 09:07	1
PCB-1262	ND		0.018	0.013	mg/Kg	☼	07/16/17 13:30	07/18/17 09:07	1
PCB-1268	ND		0.018	0.0056	mg/Kg	☼	07/16/17 13:30	07/18/17 09:07	1

Client Sample ID: W7, S2, C 71317

Lab Sample ID: 180-68219-27

Date Collected: 07/13/17 12:05
Matrix: Solid
Date Received: 07/14/17 13:15
Percent Solids: 89.6

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*79*		*23 - 150*	*07/16/17 13:30*	*07/18/17 09:07*	*1*
DCB Decachlorobiphenyl (Surr)	*88*		*23 - 150*	*07/16/17 13:30*	*07/18/17 09:07*	*1*
Tetrachloro-m-xylene (Surr)	*83*		*27 - 138*	*07/16/17 13:30*	*07/18/17 09:07*	*1*
Tetrachloro-m-xylene (Surr)	*79*		*27 - 138*	*07/16/17 13:30*	*07/18/17 09:07*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**9.0**		1.1	0.46	mg/Kg	☼	07/18/17 10:32	07/20/17 13:51	1
Barium	**78**		21	5.7	mg/Kg	☼	07/18/17 10:32	07/20/17 13:51	1
Beryllium	**0.40**	**J**	0.42	0.11	mg/Kg	☼	07/18/17 10:32	07/20/17 13:51	1
Cadmium	**0.18**	**J**	0.53	0.12	mg/Kg	☼	07/18/17 10:32	07/20/17 13:51	1
Chromium	**11**		0.53	0.14	mg/Kg	☼	07/18/17 10:32	07/20/17 13:51	1
Copper	**29**		2.6	0.81	mg/Kg	☼	07/18/17 10:32	07/20/17 13:51	1
Lead	**38**		1.1	0.35	mg/Kg	☼	07/18/17 10:32	07/20/17 13:51	1
Manganese	**440**		1.6	0.43	mg/Kg	☼	07/18/17 10:32	07/20/17 13:51	1
Nickel	**21**		4.2	0.95	mg/Kg	☼	07/18/17 10:32	07/20/17 13:51	1
Selenium	ND		1.1	0.42	mg/Kg	☼	07/18/17 10:32	07/20/17 13:51	1
Silver	ND		0.53	0.17	mg/Kg	☼	07/18/17 10:32	07/20/17 13:51	1
Zinc	**83**		2.1	1.1	mg/Kg	☼	07/18/17 10:32	07/20/17 13:51	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.042**		0.033	0.0074	mg/Kg	☼	07/18/17 14:51	07/19/17 12:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**10.4**		0.1	0.1	%			07/17/17 12:16	1
Percent Solids	**89.6**		0.1	0.1	%			07/17/17 12:16	1
Cyanide, Total	**0.23**	**J**	0.49	0.15	mg/Kg	☼	07/18/17 10:56	07/18/17 14:51	1

Client Sample ID: W7, S1, A 71317

Lab Sample ID: 180-68219-28

Date Collected: 07/13/17 12:15
Matrix: Solid
Date Received: 07/14/17 13:15
Percent Solids: 90.5

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.015	0.0024	mg/Kg	☼	07/19/17 05:28	07/19/17 15:02	1
Benzene	ND		0.0038	0.0015	mg/Kg	☼	07/19/17 05:28	07/19/17 15:02	1
2-Butanone (MEK)	ND		0.0038	0.0022	mg/Kg	☼	07/19/17 05:28	07/19/17 15:02	1
Carbon tetrachloride	ND		0.0038	0.0025	mg/Kg	☼	07/19/17 05:28	07/19/17 15:02	1
Chlorobenzene	ND		0.0038	0.0012	mg/Kg	☼	07/19/17 05:28	07/19/17 15:02	1
Chloroform	ND		0.0038	0.0016	mg/Kg	☼	07/19/17 05:28	07/19/17 15:02	1
cis-1,2-Dichloroethene	ND		0.0038	0.0012	mg/Kg	☼	07/19/17 05:28	07/19/17 15:02	1
1,2-Dichlorobenzene	ND		0.0038	0.0031	mg/Kg	☼	07/19/17 05:28	07/19/17 15:02	1
1,3-Dichlorobenzene	ND		0.0038	0.0012	mg/Kg	☼	07/19/17 05:28	07/19/17 15:02	1
1,4-Dichlorobenzene	ND		0.0038	0.00077	mg/Kg	☼	07/19/17 05:28	07/19/17 15:02	1
1,1-Dichloroethane	ND		0.0038	0.0014	mg/Kg	☼	07/19/17 05:28	07/19/17 15:02	1
1,2-Dichloroethane	ND		0.0038	0.0011	mg/Kg	☼	07/19/17 05:28	07/19/17 15:02	1
1,1-Dichloroethene	ND		0.0038	0.0022	mg/Kg	☼	07/19/17 05:28	07/19/17 15:02	1
Ethylbenzene	ND		0.0038	0.0016	mg/Kg	☼	07/19/17 05:28	07/19/17 15:02	1
Methylene Chloride	ND		0.0038	0.0018	mg/Kg	☼	07/19/17 05:28	07/19/17 15:02	1

Client Sample ID: W7, S1, A 71317 — Lab Sample ID: 180-68219-28

Date Collected: 07/13/17 12:15 — **Matrix: Solid**
Date Received: 07/14/17 13:15 — **Percent Solids: 90.5**

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.0038	0.0028	mg/Kg	☼	07/19/17 05:28	07/19/17 15:02	1
n-Butylbenzene	ND		0.0038	0.0029	mg/Kg	☼	07/19/17 05:28	07/19/17 15:02	1
N-Propylbenzene	ND		0.0038	0.0016	mg/Kg	☼	07/19/17 05:28	07/19/17 15:02	1
sec-Butylbenzene	ND		0.0038	0.0019	mg/Kg	☼	07/19/17 05:28	07/19/17 15:02	1
tert-Butylbenzene	ND		0.0038	0.0014	mg/Kg	☼	07/19/17 05:28	07/19/17 15:02	1
Tetrachloroethene	ND		0.0038	0.0015	mg/Kg	☼	07/19/17 05:28	07/19/17 15:02	1
Toluene	ND		0.0038	0.0013	mg/Kg	☼	07/19/17 05:28	07/19/17 15:02	1
trans-1,2-Dichloroethene	ND		0.0038	0.0019	mg/Kg	☼	07/19/17 05:28	07/19/17 15:02	1
1,1,1-Trichloroethane	ND		0.0038	0.0019	mg/Kg	☼	07/19/17 05:28	07/19/17 15:02	1
Trichloroethene	ND		0.0038	0.0011	mg/Kg	☼	07/19/17 05:28	07/19/17 15:02	1
1,2,4-Trimethylbenzene	ND		0.0038	0.0010	mg/Kg	☼	07/19/17 05:28	07/19/17 15:02	1
1,3,5-Trimethylbenzene	ND		0.0038	0.0013	mg/Kg	☼	07/19/17 05:28	07/19/17 15:02	1
Vinyl chloride	ND		0.0038	0.0028	mg/Kg	☼	07/19/17 05:28	07/19/17 15:02	1
Xylenes, Total	ND		0.0076	0.0033	mg/Kg	☼	07/19/17 05:28	07/19/17 15:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*63 - 120*	*07/19/17 05:28*	*07/19/17 15:02*	*1*
Dibromofluoromethane (Surr)	*91*		*68 - 121*	*07/19/17 05:28*	*07/19/17 15:02*	*1*
1,2-Dichloroethane-d4 (Surr)	*83*		*52 - 124*	*07/19/17 05:28*	*07/19/17 15:02*	*1*
Toluene-d8 (Surr)	*113*		*72 - 127*	*07/19/17 05:28*	*07/19/17 15:02*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.5**		0.1	0.1	%			07/17/17 14:15	1
Percent Solids	**90.5**		0.1	0.1	%			07/17/17 14:15	1

Client Sample ID: W7, S1, B 71317 — Lab Sample ID: 180-68219-29

Date Collected: 07/13/17 12:20 — **Matrix: Solid**
Date Received: 07/14/17 13:15 — **Percent Solids: 91.0**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.015	0.0024	mg/Kg	☼	07/19/17 05:28	07/19/17 14:40	1
Benzene	ND		0.0038	0.0015	mg/Kg	☼	07/19/17 05:28	07/19/17 14:40	1
2-Butanone (MEK)	ND		0.0038	0.0022	mg/Kg	☼	07/19/17 05:28	07/19/17 14:40	1
Carbon tetrachloride	ND		0.0038	0.0025	mg/Kg	☼	07/19/17 05:28	07/19/17 14:40	1
Chlorobenzene	ND		0.0038	0.0012	mg/Kg	☼	07/19/17 05:28	07/19/17 14:40	1
Chloroform	ND		0.0038	0.0016	mg/Kg	☼	07/19/17 05:28	07/19/17 14:40	1
cis-1,2-Dichloroethene	ND		0.0038	0.0012	mg/Kg	☼	07/19/17 05:28	07/19/17 14:40	1
1,2-Dichlorobenzene	ND		0.0038	0.0030	mg/Kg	☼	07/19/17 05:28	07/19/17 14:40	1
1,3-Dichlorobenzene	ND		0.0038	0.0012	mg/Kg	☼	07/19/17 05:28	07/19/17 14:40	1
1,4-Dichlorobenzene	ND		0.0038	0.00077	mg/Kg	☼	07/19/17 05:28	07/19/17 14:40	1
1,1-Dichloroethane	ND		0.0038	0.0014	mg/Kg	☼	07/19/17 05:28	07/19/17 14:40	1
1,2-Dichloroethane	ND		0.0038	0.0011	mg/Kg	☼	07/19/17 05:28	07/19/17 14:40	1
1,1-Dichloroethene	ND		0.0038	0.0021	mg/Kg	☼	07/19/17 05:28	07/19/17 14:40	1
Ethylbenzene	ND		0.0038	0.0016	mg/Kg	☼	07/19/17 05:28	07/19/17 14:40	1
Methylene Chloride	ND		0.0038	0.0018	mg/Kg	☼	07/19/17 05:28	07/19/17 14:40	1
Methyl tert-butyl ether	ND		0.0038	0.0028	mg/Kg	☼	07/19/17 05:28	07/19/17 14:40	1
n-Butylbenzene	ND		0.0038	0.0029	mg/Kg	☼	07/19/17 05:28	07/19/17 14:40	1
N-Propylbenzene	ND		0.0038	0.0016	mg/Kg	☼	07/19/17 05:28	07/19/17 14:40	1

Client Sample ID: W7, S1, B 71317 — Lab Sample ID: 180-68219-29

Date Collected: 07/13/17 12:20 — **Matrix: Solid**
Date Received: 07/14/17 13:15 — **Percent Solids: 91.0**

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		0.0038	0.0018	mg/Kg	☼	07/19/17 05:28	07/19/17 14:40	1
tert-Butylbenzene	ND		0.0038	0.0014	mg/Kg	☼	07/19/17 05:28	07/19/17 14:40	1
Tetrachloroethene	ND		0.0038	0.0015	mg/Kg	☼	07/19/17 05:28	07/19/17 14:40	1
Toluene	ND		0.0038	0.0013	mg/Kg	☼	07/19/17 05:28	07/19/17 14:40	1
trans-1,2-Dichloroethene	ND		0.0038	0.0019	mg/Kg	☼	07/19/17 05:28	07/19/17 14:40	1
1,1,1-Trichloroethane	ND		0.0038	0.0019	mg/Kg	☼	07/19/17 05:28	07/19/17 14:40	1
Trichloroethene	ND		0.0038	0.0011	mg/Kg	☼	07/19/17 05:28	07/19/17 14:40	1
1,2,4-Trimethylbenzene	ND		0.0038	0.0010	mg/Kg	☼	07/19/17 05:28	07/19/17 14:40	1
1,3,5-Trimethylbenzene	ND		0.0038	0.0013	mg/Kg	☼	07/19/17 05:28	07/19/17 14:40	1
Vinyl chloride	ND		0.0038	0.0028	mg/Kg	☼	07/19/17 05:28	07/19/17 14:40	1
Xylenes, Total	ND		0.0075	0.0032	mg/Kg	☼	07/19/17 05:28	07/19/17 14:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*63 - 120*	*07/19/17 05:28*	*07/19/17 14:40*	*1*
Dibromofluoromethane (Surr)	*96*		*68 - 121*	*07/19/17 05:28*	*07/19/17 14:40*	*1*
1,2-Dichloroethane-d4 (Surr)	*91*		*52 - 124*	*07/19/17 05:28*	*07/19/17 14:40*	*1*
Toluene-d8 (Surr)	*115*		*72 - 127*	*07/19/17 05:28*	*07/19/17 14:40*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.0**		0.1	0.1	%			07/17/17 15:21	1
Percent Solids	**91.0**		0.1	0.1	%			07/17/17 15:21	1

Client Sample ID: W7, S1, C 71317 — Lab Sample ID: 180-68219-30

Date Collected: 07/13/17 12:25 — **Matrix: Solid**
Date Received: 07/14/17 13:15 — **Percent Solids: 90.2**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.029**	**J**	0.073	0.024	mg/Kg	☼	07/15/17 04:42	07/17/17 15:56	10
Acenaphthylene	**0.28**		0.073	0.025	mg/Kg	☼	07/15/17 04:42	07/17/17 15:56	10
Anthracene	**0.69**		0.073	0.027	mg/Kg	☼	07/15/17 04:42	07/17/17 15:56	10
Benzo[a]anthracene	**1.9**		0.073	0.029	mg/Kg	☼	07/15/17 04:42	07/17/17 15:56	10
Benzo[a]pyrene	**2.0**		0.073	0.030	mg/Kg	☼	07/15/17 04:42	07/17/17 15:56	10
Benzo[b]fluoranthene	**2.4**		0.073	0.031	mg/Kg	☼	07/15/17 04:42	07/17/17 15:56	10
Benzo[g,h,i]perylene	**2.0**		0.073	0.031	mg/Kg	☼	07/15/17 04:42	07/17/17 15:56	10
Benzo[k]fluoranthene	**0.70**		0.073	0.025	mg/Kg	☼	07/15/17 04:42	07/17/17 15:56	10
Chrysene	**1.7**		0.073	0.028	mg/Kg	☼	07/15/17 04:42	07/17/17 15:56	10
Dibenz(a,h)anthracene	**0.41**		0.073	0.030	mg/Kg	☼	07/15/17 04:42	07/17/17 15:56	10
Dibenzofuran	**0.10**	**J**	0.36	0.029	mg/Kg	☼	07/15/17 04:42	07/17/17 15:56	10
2,4-Dinitrotoluene	ND		0.36	0.048	mg/Kg	☼	07/15/17 04:42	07/17/17 15:56	10
1,4-Dioxane	ND		0.73	0.055	mg/Kg	☼	07/15/17 04:42	07/17/17 15:56	10
Fluoranthene	**3.5**		0.073	0.029	mg/Kg	☼	07/15/17 04:42	07/17/17 15:56	10
Fluorene	**0.078**		0.073	0.026	mg/Kg	☼	07/15/17 04:42	07/17/17 15:56	10
Hexachlorobenzene	ND		0.073	0.029	mg/Kg	☼	07/15/17 04:42	07/17/17 15:56	10
Hexachlorobutadiene	ND		0.073	0.023	mg/Kg	☼	07/15/17 04:42	07/17/17 15:56	10
Hexachloroethane	ND		0.36	0.026	mg/Kg	☼	07/15/17 04:42	07/17/17 15:56	10
Indeno[1,2,3-cd]pyrene	**1.7**		0.073	0.028	mg/Kg	☼	07/15/17 04:42	07/17/17 15:56	10
2-Methylphenol	ND		0.36	0.032	mg/Kg	☼	07/15/17 04:42	07/17/17 15:56	10
Methylphenol, 3 & 4	ND		0.36	0.032	mg/Kg	☼	07/15/17 04:42	07/17/17 15:56	10

Client Sample ID: W7, S1, C 71317 **Lab Sample ID: 180-68219-30**
Date Collected: 07/13/17 12:25 **Matrix: Solid**
Date Received: 07/14/17 13:15 **Percent Solids: 90.2**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**0.32**		0.073	0.026	mg/Kg	☼	07/15/17 04:42	07/17/17 15:56	10
Nitrobenzene	ND		0.73	0.028	mg/Kg	☼	07/15/17 04:42	07/17/17 15:56	10
Pentachlorophenol	ND		1.8	0.69	mg/Kg	☼	07/15/17 04:42	07/17/17 15:56	10
Phenanthrene	**2.0**		0.073	0.030	mg/Kg	☼	07/15/17 04:42	07/17/17 15:56	10
Phenol	ND		0.36	0.049	mg/Kg	☼	07/15/17 04:42	07/17/17 15:56	10
Pyrene	**3.3**		0.073	0.032	mg/Kg	☼	07/15/17 04:42	07/17/17 15:56	10
Pyridine	ND		0.36	0.035	mg/Kg	☼	07/15/17 04:42	07/17/17 15:56	10
2,4,5-Trichlorophenol	ND		0.36	0.034	mg/Kg	☼	07/15/17 04:42	07/17/17 15:56	10
2,4,6-Trichlorophenol	ND		0.36	0.032	mg/Kg	☼	07/15/17 04:42	07/17/17 15:56	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*50*		*42 - 100*	*07/15/17 04:42*	*07/17/17 15:56*	*10*
2-Fluorophenol (Surr)	*49*		*21 - 107*	*07/15/17 04:42*	*07/17/17 15:56*	*10*
Nitrobenzene-d5 (Surr)	*60*		*35 - 109*	*07/15/17 04:42*	*07/17/17 15:56*	*10*
Phenol-d5 (Surr)	*48*		*29 - 105*	*07/15/17 04:42*	*07/17/17 15:56*	*10*
Terphenyl-d14 (Surr)	*58*		*36 - 113*	*07/15/17 04:42*	*07/17/17 15:56*	*10*
2,4,6-Tribromophenol (Surr)	*43*		*20 - 134*	*07/15/17 04:42*	*07/17/17 15:56*	*10*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.018	0.0097	mg/Kg	☼	07/16/17 13:30	07/17/17 14:36	1
PCB-1221	ND		0.018	0.0094	mg/Kg	☼	07/16/17 13:30	07/17/17 14:36	1
PCB-1232	ND		0.018	0.0072	mg/Kg	☼	07/16/17 13:30	07/17/17 14:36	1
PCB-1242	ND		0.018	0.014	mg/Kg	☼	07/16/17 13:30	07/17/17 14:36	1
PCB-1248	**1.1**		0.018	0.0087	mg/Kg	☼	07/16/17 13:30	07/17/17 14:36	1
PCB-1254	**0.42**		0.018	0.0080	mg/Kg	☼	07/16/17 13:30	07/17/17 14:36	1
PCB-1260	**0.17**		0.018	0.012	mg/Kg	☼	07/16/17 13:30	07/17/17 14:36	1
PCB-1262	ND		0.018	0.013	mg/Kg	☼	07/16/17 13:30	07/17/17 14:36	1
PCB-1268	ND		0.018	0.0056	mg/Kg	☼	07/16/17 13:30	07/17/17 14:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*87*		*23 - 150*	*07/16/17 13:30*	*07/17/17 14:36*	*1*
DCB Decachlorobiphenyl (Surr)	*96*		*23 - 150*	*07/16/17 13:30*	*07/17/17 14:36*	*1*
Tetrachloro-m-xylene (Surr)	*82*		*27 - 138*	*07/16/17 13:30*	*07/17/17 14:36*	*1*
Tetrachloro-m-xylene (Surr)	*78*		*27 - 138*	*07/16/17 13:30*	*07/17/17 14:36*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**6.9**		1.2	0.51	mg/Kg	☼	07/18/17 10:32	07/20/17 13:56	1
Barium	**61**		23	6.2	mg/Kg	☼	07/18/17 10:32	07/20/17 13:56	1
Beryllium	**0.32**	**J**	0.46	0.12	mg/Kg	☼	07/18/17 10:32	07/20/17 13:56	1
Cadmium	**0.17**	**J**	0.58	0.13	mg/Kg	☼	07/18/17 10:32	07/20/17 13:56	1
Chromium	**9.1**		0.58	0.15	mg/Kg	☼	07/18/17 10:32	07/20/17 13:56	1
Copper	**25**		2.9	0.89	mg/Kg	☼	07/18/17 10:32	07/20/17 13:56	1
Lead	**33**		1.2	0.38	mg/Kg	☼	07/18/17 10:32	07/20/17 13:56	1
Manganese	**390**		1.7	0.47	mg/Kg	☼	07/18/17 10:32	07/20/17 13:56	1
Nickel	**18**		4.6	1.0	mg/Kg	☼	07/18/17 10:32	07/20/17 13:56	1
Selenium	**0.56**	**J**	1.2	0.46	mg/Kg	☼	07/18/17 10:32	07/20/17 13:56	1
Silver	ND		0.58	0.19	mg/Kg	☼	07/18/17 10:32	07/20/17 13:56	1
Zinc	**74**		2.3	1.2	mg/Kg	☼	07/18/17 10:32	07/20/17 13:56	1

Client Sample ID: W7, S1, C 71317

Lab Sample ID: 180-68219-30
Date Collected: 07/13/17 12:25
Matrix: Solid
Date Received: 07/14/17 13:15
Percent Solids: 90.2

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.057		0.038	0.0085	mg/Kg	☼	07/18/17 14:51	07/19/17 13:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.8		0.1	0.1	%			07/17/17 12:16	1
Percent Solids	90.2		0.1	0.1	%			07/17/17 12:16	1
Cyanide, Total	0.42	J	0.49	0.15	mg/Kg	☼	07/18/17 10:56	07/18/17 15:03	1

Client Sample ID: W8, S1, A 71317

Lab Sample ID: 180-68219-31
Date Collected: 07/13/17 12:45
Matrix: Solid
Date Received: 07/14/17 13:15
Percent Solids: 88.6

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.016	0.0025	mg/Kg	☼	07/19/17 05:28	07/19/17 14:17	1
Benzene	ND		0.0039	0.0015	mg/Kg	☼	07/19/17 05:28	07/19/17 14:17	1
2-Butanone (MEK)	ND		0.0039	0.0023	mg/Kg	☼	07/19/17 05:28	07/19/17 14:17	1
Carbon tetrachloride	ND		0.0039	0.0026	mg/Kg	☼	07/19/17 05:28	07/19/17 14:17	1
Chlorobenzene	ND		0.0039	0.0012	mg/Kg	☼	07/19/17 05:28	07/19/17 14:17	1
Chloroform	ND		0.0039	0.0016	mg/Kg	☼	07/19/17 05:28	07/19/17 14:17	1
cis-1,2-Dichloroethene	ND		0.0039	0.0012	mg/Kg	☼	07/19/17 05:28	07/19/17 14:17	1
1,2-Dichlorobenzene	ND		0.0039	0.0031	mg/Kg	☼	07/19/17 05:28	07/19/17 14:17	1
1,3-Dichlorobenzene	ND		0.0039	0.0012	mg/Kg	☼	07/19/17 05:28	07/19/17 14:17	1
1,4-Dichlorobenzene	ND		0.0039	0.00079	mg/Kg	☼	07/19/17 05:28	07/19/17 14:17	1
1,1-Dichloroethane	ND		0.0039	0.0014	mg/Kg	☼	07/19/17 05:28	07/19/17 14:17	1
1,2-Dichloroethane	ND		0.0039	0.0011	mg/Kg	☼	07/19/17 05:28	07/19/17 14:17	1
1,1-Dichloroethene	ND		0.0039	0.0022	mg/Kg	☼	07/19/17 05:28	07/19/17 14:17	1
Ethylbenzene	ND		0.0039	0.0017	mg/Kg	☼	07/19/17 05:28	07/19/17 14:17	1
Methylene Chloride	ND		0.0039	0.0018	mg/Kg	☼	07/19/17 05:28	07/19/17 14:17	1
Methyl tert-butyl ether	ND		0.0039	0.0029	mg/Kg	☼	07/19/17 05:28	07/19/17 14:17	1
n-Butylbenzene	ND		0.0039	0.0029	mg/Kg	☼	07/19/17 05:28	07/19/17 14:17	1
N-Propylbenzene	ND		0.0039	0.0016	mg/Kg	☼	07/19/17 05:28	07/19/17 14:17	1
sec-Butylbenzene	ND		0.0039	0.0019	mg/Kg	☼	07/19/17 05:28	07/19/17 14:17	1
tert-Butylbenzene	ND		0.0039	0.0014	mg/Kg	☼	07/19/17 05:28	07/19/17 14:17	1
Tetrachloroethene	ND		0.0039	0.0016	mg/Kg	☼	07/19/17 05:28	07/19/17 14:17	1
Toluene	ND		0.0039	0.0013	mg/Kg	☼	07/19/17 05:28	07/19/17 14:17	1
trans-1,2-Dichloroethene	ND		0.0039	0.0020	mg/Kg	☼	07/19/17 05:28	07/19/17 14:17	1
1,1,1-Trichloroethane	ND		0.0039	0.0020	mg/Kg	☼	07/19/17 05:28	07/19/17 14:17	1
Trichloroethene	ND		0.0039	0.0012	mg/Kg	☼	07/19/17 05:28	07/19/17 14:17	1
1,2,4-Trimethylbenzene	ND		0.0039	0.0010	mg/Kg	☼	07/19/17 05:28	07/19/17 14:17	1
1,3,5-Trimethylbenzene	ND		0.0039	0.0013	mg/Kg	☼	07/19/17 05:28	07/19/17 14:17	1
Vinyl chloride	ND		0.0039	0.0029	mg/Kg	☼	07/19/17 05:28	07/19/17 14:17	1
Xylenes, Total	ND		0.0078	0.0033	mg/Kg	☼	07/19/17 05:28	07/19/17 14:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*83*		*63 - 120*	*07/19/17 05:28*	*07/19/17 14:17*	*1*
Dibromofluoromethane (Surr)	*88*		*68 - 121*	*07/19/17 05:28*	*07/19/17 14:17*	*1*
1,2-Dichloroethane-d4 (Surr)	*80*		*52 - 124*	*07/19/17 05:28*	*07/19/17 14:17*	*1*
Toluene-d8 (Surr)	*115*		*72 - 127*	*07/19/17 05:28*	*07/19/17 14:17*	*1*

Client Sample ID: W8, S1, A 71317 — Lab Sample ID: 180-68219-31

Date Collected: 07/13/17 12:45 — **Matrix: Solid**
Date Received: 07/14/17 13:15 — **Percent Solids: 88.6**

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	11.4		0.1	0.1	%			07/17/17 15:21	1
Percent Solids	88.6		0.1	0.1	%			07/17/17 15:21	1

Client Sample ID: W8, S1, B 71317 — Lab Sample ID: 180-68219-32

Date Collected: 07/13/17 12:50 — **Matrix: Solid**
Date Received: 07/14/17 13:15 — **Percent Solids: 91.5**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.016	0.0025	mg/Kg	☼	07/19/17 05:28	07/19/17 13:54	1
Benzene	ND		0.0040	0.0016	mg/Kg	☼	07/19/17 05:28	07/19/17 13:54	1
2-Butanone (MEK)	ND		0.0040	0.0023	mg/Kg	☼	07/19/17 05:28	07/19/17 13:54	1
Carbon tetrachloride	ND		0.0040	0.0027	mg/Kg	☼	07/19/17 05:28	07/19/17 13:54	1
Chlorobenzene	ND		0.0040	0.0013	mg/Kg	☼	07/19/17 05:28	07/19/17 13:54	1
Chloroform	ND		0.0040	0.0017	mg/Kg	☼	07/19/17 05:28	07/19/17 13:54	1
cis-1,2-Dichloroethene	ND		0.0040	0.0013	mg/Kg	☼	07/19/17 05:28	07/19/17 13:54	1
1,2-Dichlorobenzene	ND		0.0040	0.0033	mg/Kg	☼	07/19/17 05:28	07/19/17 13:54	1
1,3-Dichlorobenzene	ND		0.0040	0.0013	mg/Kg	☼	07/19/17 05:28	07/19/17 13:54	1
1,4-Dichlorobenzene	ND		0.0040	0.00082	mg/Kg	☼	07/19/17 05:28	07/19/17 13:54	1
1,1-Dichloroethane	ND		0.0040	0.0015	mg/Kg	☼	07/19/17 05:28	07/19/17 13:54	1
1,2-Dichloroethane	ND		0.0040	0.0012	mg/Kg	☼	07/19/17 05:28	07/19/17 13:54	1
1,1-Dichloroethene	ND		0.0040	0.0023	mg/Kg	☼	07/19/17 05:28	07/19/17 13:54	1
Ethylbenzene	ND		0.0040	0.0017	mg/Kg	☼	07/19/17 05:28	07/19/17 13:54	1
Methylene Chloride	ND		0.0040	0.0019	mg/Kg	☼	07/19/17 05:28	07/19/17 13:54	1
Methyl tert-butyl ether	ND		0.0040	0.0030	mg/Kg	☼	07/19/17 05:28	07/19/17 13:54	1
n-Butylbenzene	ND		0.0040	0.0031	mg/Kg	☼	07/19/17 05:28	07/19/17 13:54	1
N-Propylbenzene	ND		0.0040	0.0017	mg/Kg	☼	07/19/17 05:28	07/19/17 13:54	1
sec-Butylbenzene	ND		0.0040	0.0020	mg/Kg	☼	07/19/17 05:28	07/19/17 13:54	1
tert-Butylbenzene	ND		0.0040	0.0015	mg/Kg	☼	07/19/17 05:28	07/19/17 13:54	1
Tetrachloroethene	ND		0.0040	0.0016	mg/Kg	☼	07/19/17 05:28	07/19/17 13:54	1
Toluene	ND		0.0040	0.0014	mg/Kg	☼	07/19/17 05:28	07/19/17 13:54	1
trans-1,2-Dichloroethene	ND		0.0040	0.0021	mg/Kg	☼	07/19/17 05:28	07/19/17 13:54	1
1,1,1-Trichloroethane	ND		0.0040	0.0020	mg/Kg	☼	07/19/17 05:28	07/19/17 13:54	1
Trichloroethene	ND		0.0040	0.0012	mg/Kg	☼	07/19/17 05:28	07/19/17 13:54	1
1,2,4-Trimethylbenzene	ND		0.0040	0.0011	mg/Kg	☼	07/19/17 05:28	07/19/17 13:54	1
1,3,5-Trimethylbenzene	ND		0.0040	0.0014	mg/Kg	☼	07/19/17 05:28	07/19/17 13:54	1
Vinyl chloride	ND		0.0040	0.0030	mg/Kg	☼	07/19/17 05:28	07/19/17 13:54	1
Xylenes, Total	ND		0.0081	0.0035	mg/Kg	☼	07/19/17 05:28	07/19/17 13:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*63 - 120*	*07/19/17 05:28*	*07/19/17 13:54*	*1*
Dibromofluoromethane (Surr)	*95*		*68 - 121*	*07/19/17 05:28*	*07/19/17 13:54*	*1*
1,2-Dichloroethane-d4 (Surr)	*89*		*52 - 124*	*07/19/17 05:28*	*07/19/17 13:54*	*1*
Toluene-d8 (Surr)	*122*		*72 - 127*	*07/19/17 05:28*	*07/19/17 13:54*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	8.5		0.1	0.1	%			07/17/17 15:21	1
Percent Solids	91.5		0.1	0.1	%			07/17/17 15:21	1

Client Sample ID: W8, S1, C 71317
Date Collected: 07/13/17 12:55
Date Received: 07/14/17 13:15

Lab Sample ID: 180-68219-33
Matrix: Solid
Percent Solids: 90.6

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.036	0.012	mg/Kg	☼	07/15/17 04:42	07/17/17 16:23	5
Acenaphthylene	**0.14**		0.036	0.012	mg/Kg	☼	07/15/17 04:42	07/17/17 16:23	5
Anthracene	**0.15**		0.036	0.013	mg/Kg	☼	07/15/17 04:42	07/17/17 16:23	5
Benzo[a]anthracene	**0.49**		0.036	0.014	mg/Kg	☼	07/15/17 04:42	07/17/17 16:23	5
Benzo[a]pyrene	**0.54**		0.036	0.015	mg/Kg	☼	07/15/17 04:42	07/17/17 16:23	5
Benzo[b]fluoranthene	**0.73**		0.036	0.016	mg/Kg	☼	07/15/17 04:42	07/17/17 16:23	5
Benzo[g,h,i]perylene	**0.72**		0.036	0.016	mg/Kg	☼	07/15/17 04:42	07/17/17 16:23	5
Benzo[k]fluoranthene	**0.20**		0.036	0.012	mg/Kg	☼	07/15/17 04:42	07/17/17 16:23	5
Chrysene	**0.48**		0.036	0.014	mg/Kg	☼	07/15/17 04:42	07/17/17 16:23	5
Dibenz(a,h)anthracene	**0.13**		0.036	0.015	mg/Kg	☼	07/15/17 04:42	07/17/17 16:23	5
Dibenzofuran	**0.055**	**J**	0.18	0.014	mg/Kg	☼	07/15/17 04:42	07/17/17 16:23	5
2,4-Dinitrotoluene	ND		0.18	0.024	mg/Kg	☼	07/15/17 04:42	07/17/17 16:23	5
1,4-Dioxane	ND		0.36	0.027	mg/Kg	☼	07/15/17 04:42	07/17/17 16:23	5
Fluoranthene	**0.74**		0.036	0.014	mg/Kg	☼	07/15/17 04:42	07/17/17 16:23	5
Fluorene	**0.026**	**J**	0.036	0.013	mg/Kg	☼	07/15/17 04:42	07/17/17 16:23	5
Hexachlorobenzene	ND		0.036	0.014	mg/Kg	☼	07/15/17 04:42	07/17/17 16:23	5
Hexachlorobutadiene	ND		0.036	0.011	mg/Kg	☼	07/15/17 04:42	07/17/17 16:23	5
Hexachloroethane	ND		0.18	0.013	mg/Kg	☼	07/15/17 04:42	07/17/17 16:23	5
Indeno[1,2,3-cd]pyrene	**0.58**		0.036	0.014	mg/Kg	☼	07/15/17 04:42	07/17/17 16:23	5
2-Methylphenol	ND		0.18	0.016	mg/Kg	☼	07/15/17 04:42	07/17/17 16:23	5
Methylphenol, 3 & 4	ND		0.18	0.016	mg/Kg	☼	07/15/17 04:42	07/17/17 16:23	5
Naphthalene	**0.17**		0.036	0.013	mg/Kg	☼	07/15/17 04:42	07/17/17 16:23	5
Nitrobenzene	ND		0.36	0.014	mg/Kg	☼	07/15/17 04:42	07/17/17 16:23	5
Pentachlorophenol	ND		0.91	0.34	mg/Kg	☼	07/15/17 04:42	07/17/17 16:23	5
Phenanthrene	**0.34**		0.036	0.015	mg/Kg	☼	07/15/17 04:42	07/17/17 16:23	5
Phenol	ND		0.18	0.024	mg/Kg	☼	07/15/17 04:42	07/17/17 16:23	5
Pyrene	**0.69**		0.036	0.016	mg/Kg	☼	07/15/17 04:42	07/17/17 16:23	5
Pyridine	ND		0.18	0.017	mg/Kg	☼	07/15/17 04:42	07/17/17 16:23	5
2,4,5-Trichlorophenol	ND		0.18	0.017	mg/Kg	☼	07/15/17 04:42	07/17/17 16:23	5
2,4,6-Trichlorophenol	ND		0.18	0.016	mg/Kg	☼	07/15/17 04:42	07/17/17 16:23	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*52*		*42 - 100*	*07/15/17 04:42*	*07/17/17 16:23*	*5*
2-Fluorophenol (Surr)	*46*		*21 - 107*	*07/15/17 04:42*	*07/17/17 16:23*	*5*
Nitrobenzene-d5 (Surr)	*50*		*35 - 109*	*07/15/17 04:42*	*07/17/17 16:23*	*5*
Phenol-d5 (Surr)	*45*		*29 - 105*	*07/15/17 04:42*	*07/17/17 16:23*	*5*
Terphenyl-d14 (Surr)	*47*		*36 - 113*	*07/15/17 04:42*	*07/17/17 16:23*	*5*
2,4,6-Tribromophenol (Surr)	*51*		*20 - 134*	*07/15/17 04:42*	*07/17/17 16:23*	*5*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.018	0.0096	mg/Kg	☼	07/16/17 13:30	07/17/17 14:57	1
PCB-1221	ND		0.018	0.0093	mg/Kg	☼	07/16/17 13:30	07/17/17 14:57	1
PCB-1232	ND		0.018	0.0071	mg/Kg	☼	07/16/17 13:30	07/17/17 14:57	1
PCB-1242	ND		0.018	0.014	mg/Kg	☼	07/16/17 13:30	07/17/17 14:57	1
PCB-1248	**0.63**		0.018	0.0086	mg/Kg	☼	07/16/17 13:30	07/17/17 14:57	1
PCB-1254	**0.32**		0.018	0.0079	mg/Kg	☼	07/16/17 13:30	07/17/17 14:57	1
PCB-1260	**0.16**		0.018	0.012	mg/Kg	☼	07/16/17 13:30	07/17/17 14:57	1
PCB-1262	ND		0.018	0.013	mg/Kg	☼	07/16/17 13:30	07/17/17 14:57	1
PCB-1268	ND		0.018	0.0055	mg/Kg	☼	07/16/17 13:30	07/17/17 14:57	1

Client Sample ID: W8, S1, C 71317

Lab Sample ID: 180-68219-33

Date Collected: 07/13/17 12:55

Matrix: Solid

Date Received: 07/14/17 13:15

Percent Solids: 90.6

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*83*		*23 - 150*	*07/16/17 13:30*	*07/17/17 14:57*	*1*
DCB Decachlorobiphenyl (Surr)	*96*		*23 - 150*	*07/16/17 13:30*	*07/17/17 14:57*	*1*
Tetrachloro-m-xylene (Surr)	*82*		*27 - 138*	*07/16/17 13:30*	*07/17/17 14:57*	*1*
Tetrachloro-m-xylene (Surr)	*81*		*27 - 138*	*07/16/17 13:30*	*07/17/17 14:57*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**7.3**		1.1	0.47	mg/Kg	☼	07/18/17 10:32	07/20/17 14:01	1
Barium	**98**		21	5.7	mg/Kg	☼	07/18/17 10:32	07/20/17 14:01	1
Beryllium	**0.36**	**J**	0.42	0.11	mg/Kg	☼	07/18/17 10:32	07/20/17 14:01	1
Cadmium	**0.27**	**J**	0.53	0.12	mg/Kg	☼	07/18/17 10:32	07/20/17 14:01	1
Chromium	**13**		0.53	0.14	mg/Kg	☼	07/18/17 10:32	07/20/17 14:01	1
Copper	**67**		2.7	0.82	mg/Kg	☼	07/18/17 10:32	07/20/17 14:01	1
Lead	**75**		1.1	0.35	mg/Kg	☼	07/18/17 10:32	07/20/17 14:01	1
Manganese	**440**		1.6	0.43	mg/Kg	☼	07/18/17 10:32	07/20/17 14:01	1
Nickel	**18**		4.2	0.96	mg/Kg	☼	07/18/17 10:32	07/20/17 14:01	1
Selenium	ND		1.1	0.42	mg/Kg	☼	07/18/17 10:32	07/20/17 14:01	1
Silver	ND		0.53	0.18	mg/Kg	☼	07/18/17 10:32	07/20/17 14:01	1
Zinc	**120**		2.1	1.1	mg/Kg	☼	07/18/17 10:32	07/20/17 14:01	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.86**		0.040	0.0089	mg/Kg	☼	07/18/17 14:51	07/19/17 13:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.4**		0.1	0.1	%			07/17/17 12:16	1
Percent Solids	**90.6**		0.1	0.1	%			07/17/17 12:16	1
Cyanide, Total	**0.22**	**J**	0.48	0.15	mg/Kg	☼	07/18/17 10:56	07/18/17 15:08	1

Client Sample ID: W8, S2, A 71317

Lab Sample ID: 180-68219-34

Date Collected: 07/13/17 13:15

Matrix: Solid

Date Received: 07/14/17 13:15

Percent Solids: 90.2

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.015	0.0024	mg/Kg	☼	07/20/17 05:54	07/20/17 09:38	1
Benzene	ND		0.0038	0.0015	mg/Kg	☼	07/20/17 05:54	07/20/17 09:38	1
2-Butanone (MEK)	ND		0.0038	0.0022	mg/Kg	☼	07/20/17 05:54	07/20/17 09:38	1
Carbon tetrachloride	ND		0.0038	0.0025	mg/Kg	☼	07/20/17 05:54	07/20/17 09:38	1
Chlorobenzene	ND		0.0038	0.0012	mg/Kg	☼	07/20/17 05:54	07/20/17 09:38	1
Chloroform	ND		0.0038	0.0016	mg/Kg	☼	07/20/17 05:54	07/20/17 09:38	1
cis-1,2-Dichloroethene	ND		0.0038	0.0012	mg/Kg	☼	07/20/17 05:54	07/20/17 09:38	1
1,2-Dichlorobenzene	ND		0.0038	0.0030	mg/Kg	☼	07/20/17 05:54	07/20/17 09:38	1
1,3-Dichlorobenzene	ND		0.0038	0.0012	mg/Kg	☼	07/20/17 05:54	07/20/17 09:38	1
1,4-Dichlorobenzene	ND		0.0038	0.00077	mg/Kg	☼	07/20/17 05:54	07/20/17 09:38	1
1,1-Dichloroethane	ND		0.0038	0.0014	mg/Kg	☼	07/20/17 05:54	07/20/17 09:38	1
1,2-Dichloroethane	ND		0.0038	0.0011	mg/Kg	☼	07/20/17 05:54	07/20/17 09:38	1
1,1-Dichloroethene	ND		0.0038	0.0022	mg/Kg	☼	07/20/17 05:54	07/20/17 09:38	1
Ethylbenzene	ND		0.0038	0.0016	mg/Kg	☼	07/20/17 05:54	07/20/17 09:38	1
Methylene Chloride	ND		0.0038	0.0018	mg/Kg	☼	07/20/17 05:54	07/20/17 09:38	1

Client Sample ID: W8, S2, A 71317 — Lab Sample ID: 180-68219-34

Date Collected: 07/13/17 13:15 — **Matrix: Solid**
Date Received: 07/14/17 13:15 — **Percent Solids: 90.2**

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.0038	0.0028	mg/Kg	☼	07/20/17 05:54	07/20/17 09:38	1
n-Butylbenzene	ND		0.0038	0.0029	mg/Kg	☼	07/20/17 05:54	07/20/17 09:38	1
N-Propylbenzene	ND		0.0038	0.0016	mg/Kg	☼	07/20/17 05:54	07/20/17 09:38	1
sec-Butylbenzene	ND		0.0038	0.0018	mg/Kg	☼	07/20/17 05:54	07/20/17 09:38	1
tert-Butylbenzene	ND		0.0038	0.0014	mg/Kg	☼	07/20/17 05:54	07/20/17 09:38	1
Tetrachloroethene	ND		0.0038	0.0015	mg/Kg	☼	07/20/17 05:54	07/20/17 09:38	1
Toluene	ND		0.0038	0.0013	mg/Kg	☼	07/20/17 05:54	07/20/17 09:38	1
trans-1,2-Dichloroethene	ND		0.0038	0.0019	mg/Kg	☼	07/20/17 05:54	07/20/17 09:38	1
1,1,1-Trichloroethane	ND		0.0038	0.0019	mg/Kg	☼	07/20/17 05:54	07/20/17 09:38	1
Trichloroethene	ND		0.0038	0.0011	mg/Kg	☼	07/20/17 05:54	07/20/17 09:38	1
1,2,4-Trimethylbenzene	ND		0.0038	0.0010	mg/Kg	☼	07/20/17 05:54	07/20/17 09:38	1
1,3,5-Trimethylbenzene	ND		0.0038	0.0013	mg/Kg	☼	07/20/17 05:54	07/20/17 09:38	1
Vinyl chloride	ND		0.0038	0.0028	mg/Kg	☼	07/20/17 05:54	07/20/17 09:38	1
Xylenes, Total	ND		0.0076	0.0033	mg/Kg	☼	07/20/17 05:54	07/20/17 09:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*63 - 120*	*07/20/17 05:54*	*07/20/17 09:38*	*1*
Dibromofluoromethane (Surr)	*92*		*68 - 121*	*07/20/17 05:54*	*07/20/17 09:38*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*52 - 124*	*07/20/17 05:54*	*07/20/17 09:38*	*1*
Toluene-d8 (Surr)	*106*		*72 - 127*	*07/20/17 05:54*	*07/20/17 09:38*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.8**		0.1	0.1	%			07/17/17 15:21	1
Percent Solids	**90.2**		0.1	0.1	%			07/17/17 15:21	1

Client Sample ID: W8, S2, B 71317 — Lab Sample ID: 180-68219-35

Date Collected: 07/13/17 13:20 — **Matrix: Solid**
Date Received: 07/14/17 13:15 — **Percent Solids: 90.0**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.016	0.0025	mg/Kg	☼	07/19/17 05:28	07/19/17 13:31	1
Benzene	ND		0.0040	0.0016	mg/Kg	☼	07/19/17 05:28	07/19/17 13:31	1
2-Butanone (MEK)	ND		0.0040	0.0023	mg/Kg	☼	07/19/17 05:28	07/19/17 13:31	1
Carbon tetrachloride	ND		0.0040	0.0027	mg/Kg	☼	07/19/17 05:28	07/19/17 13:31	1
Chlorobenzene	ND		0.0040	0.0013	mg/Kg	☼	07/19/17 05:28	07/19/17 13:31	1
Chloroform	ND		0.0040	0.0017	mg/Kg	☼	07/19/17 05:28	07/19/17 13:31	1
cis-1,2-Dichloroethene	ND		0.0040	0.0013	mg/Kg	☼	07/19/17 05:28	07/19/17 13:31	1
1,2-Dichlorobenzene	ND		0.0040	0.0032	mg/Kg	☼	07/19/17 05:28	07/19/17 13:31	1
1,3-Dichlorobenzene	ND		0.0040	0.0013	mg/Kg	☼	07/19/17 05:28	07/19/17 13:31	1
1,4-Dichlorobenzene	ND		0.0040	0.00082	mg/Kg	☼	07/19/17 05:28	07/19/17 13:31	1
1,1-Dichloroethane	ND		0.0040	0.0015	mg/Kg	☼	07/19/17 05:28	07/19/17 13:31	1
1,2-Dichloroethane	ND		0.0040	0.0012	mg/Kg	☼	07/19/17 05:28	07/19/17 13:31	1
1,1-Dichloroethene	ND		0.0040	0.0023	mg/Kg	☼	07/19/17 05:28	07/19/17 13:31	1
Ethylbenzene	ND		0.0040	0.0017	mg/Kg	☼	07/19/17 05:28	07/19/17 13:31	1
Methylene Chloride	ND		0.0040	0.0019	mg/Kg	☼	07/19/17 05:28	07/19/17 13:31	1
Methyl tert-butyl ether	ND		0.0040	0.0030	mg/Kg	☼	07/19/17 05:28	07/19/17 13:31	1
n-Butylbenzene	ND		0.0040	0.0031	mg/Kg	☼	07/19/17 05:28	07/19/17 13:31	1
N-Propylbenzene	ND		0.0040	0.0017	mg/Kg	☼	07/19/17 05:28	07/19/17 13:31	1

Client Sample ID: W8, S2, B 71317 — Lab Sample ID: 180-68219-35

Date Collected: 07/13/17 13:20 — **Matrix: Solid**
Date Received: 07/14/17 13:15 — **Percent Solids: 90.0**

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		0.0040	0.0020	mg/Kg	☼	07/19/17 05:28	07/19/17 13:31	1
tert-Butylbenzene	ND		0.0040	0.0015	mg/Kg	☼	07/19/17 05:28	07/19/17 13:31	1
Tetrachloroethene	ND		0.0040	0.0016	mg/Kg	☼	07/19/17 05:28	07/19/17 13:31	1
Toluene	ND		0.0040	0.0014	mg/Kg	☼	07/19/17 05:28	07/19/17 13:31	1
trans-1,2-Dichloroethene	ND		0.0040	0.0020	mg/Kg	☼	07/19/17 05:28	07/19/17 13:31	1
1,1,1-Trichloroethane	ND		0.0040	0.0020	mg/Kg	☼	07/19/17 05:28	07/19/17 13:31	1
Trichloroethene	ND		0.0040	0.0012	mg/Kg	☼	07/19/17 05:28	07/19/17 13:31	1
1,2,4-Trimethylbenzene	ND		0.0040	0.0011	mg/Kg	☼	07/19/17 05:28	07/19/17 13:31	1
1,3,5-Trimethylbenzene	ND		0.0040	0.0014	mg/Kg	☼	07/19/17 05:28	07/19/17 13:31	1
Vinyl chloride	ND		0.0040	0.0030	mg/Kg	☼	07/19/17 05:28	07/19/17 13:31	1
Xylenes, Total	ND		0.0081	0.0035	mg/Kg	☼	07/19/17 05:28	07/19/17 13:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*63 - 120*	*07/19/17 05:28*	*07/19/17 13:31*	*1*
Dibromofluoromethane (Surr)	*94*		*68 - 121*	*07/19/17 05:28*	*07/19/17 13:31*	*1*
1,2-Dichloroethane-d4 (Surr)	*87*		*52 - 124*	*07/19/17 05:28*	*07/19/17 13:31*	*1*
Toluene-d8 (Surr)	*115*		*72 - 127*	*07/19/17 05:28*	*07/19/17 13:31*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**10**		0.1	0.1	%			07/17/17 15:21	1
Percent Solids	**90.0**		0.1	0.1	%			07/17/17 15:21	1

Client Sample ID: W8, S2, C 71317 — Lab Sample ID: 180-68219-36

Date Collected: 07/13/17 13:25 — **Matrix: Solid**
Date Received: 07/14/17 13:15 — **Percent Solids: 90.0**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.037	0.012	mg/Kg	☼	07/15/17 04:42	07/17/17 16:51	5
Acenaphthylene	**0.13**		0.037	0.013	mg/Kg	☼	07/15/17 04:42	07/17/17 16:51	5
Anthracene	**0.20**		0.037	0.014	mg/Kg	☼	07/15/17 04:42	07/17/17 16:51	5
Benzo[a]anthracene	**0.69**		0.037	0.015	mg/Kg	☼	07/15/17 04:42	07/17/17 16:51	5
Benzo[a]pyrene	**0.70**		0.037	0.015	mg/Kg	☼	07/15/17 04:42	07/17/17 16:51	5
Benzo[b]fluoranthene	**0.76**		0.037	0.016	mg/Kg	☼	07/15/17 04:42	07/17/17 16:51	5
Benzo[g,h,i]perylene	**0.73**		0.037	0.016	mg/Kg	☼	07/15/17 04:42	07/17/17 16:51	5
Benzo[k]fluoranthene	**0.30**		0.037	0.013	mg/Kg	☼	07/15/17 04:42	07/17/17 16:51	5
Chrysene	**0.62**		0.037	0.014	mg/Kg	☼	07/15/17 04:42	07/17/17 16:51	5
Dibenz(a,h)anthracene	**0.15**		0.037	0.015	mg/Kg	☼	07/15/17 04:42	07/17/17 16:51	5
Dibenzofuran	**0.048**	**J**	0.18	0.015	mg/Kg	☼	07/15/17 04:42	07/17/17 16:51	5
2,4-Dinitrotoluene	ND		0.18	0.025	mg/Kg	☼	07/15/17 04:42	07/17/17 16:51	5
1,4-Dioxane	ND		0.37	0.028	mg/Kg	☼	07/15/17 04:42	07/17/17 16:51	5
Fluoranthene	**1.0**		0.037	0.015	mg/Kg	☼	07/15/17 04:42	07/17/17 16:51	5
Fluorene	**0.034**	**J**	0.037	0.013	mg/Kg	☼	07/15/17 04:42	07/17/17 16:51	5
Hexachlorobenzene	ND		0.037	0.015	mg/Kg	☼	07/15/17 04:42	07/17/17 16:51	5
Hexachlorobutadiene	ND		0.037	0.012	mg/Kg	☼	07/15/17 04:42	07/17/17 16:51	5
Hexachloroethane	ND		0.18	0.013	mg/Kg	☼	07/15/17 04:42	07/17/17 16:51	5
Indeno[1,2,3-cd]pyrene	**0.61**		0.037	0.014	mg/Kg	☼	07/15/17 04:42	07/17/17 16:51	5
2-Methylphenol	ND		0.18	0.016	mg/Kg	☼	07/15/17 04:42	07/17/17 16:51	5
Methylphenol, 3 & 4	ND		0.18	0.016	mg/Kg	☼	07/15/17 04:42	07/17/17 16:51	5

Client Sample ID: W8, S2, C 71317 **Lab Sample ID: 180-68219-36**
Date Collected: 07/13/17 13:25 **Matrix: Solid**
Date Received: 07/14/17 13:15 **Percent Solids: 90.0**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**0.13**		0.037	0.013	mg/Kg	☼	07/15/17 04:42	07/17/17 16:51	5
Nitrobenzene	ND		0.37	0.014	mg/Kg	☼	07/15/17 04:42	07/17/17 16:51	5
Pentachlorophenol	ND		0.94	0.35	mg/Kg	☼	07/15/17 04:42	07/17/17 16:51	5
Phenanthrene	**0.55**		0.037	0.015	mg/Kg	☼	07/15/17 04:42	07/17/17 16:51	5
Phenol	ND		0.18	0.025	mg/Kg	☼	07/15/17 04:42	07/17/17 16:51	5
Pyrene	**0.94**		0.037	0.016	mg/Kg	☼	07/15/17 04:42	07/17/17 16:51	5
Pyridine	ND		0.18	0.018	mg/Kg	☼	07/15/17 04:42	07/17/17 16:51	5
2,4,5-Trichlorophenol	ND		0.18	0.018	mg/Kg	☼	07/15/17 04:42	07/17/17 16:51	5
2,4,6-Trichlorophenol	ND		0.18	0.016	mg/Kg	☼	07/15/17 04:42	07/17/17 16:51	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*48*		*42 - 100*	*07/15/17 04:42*	*07/17/17 16:51*	*5*
2-Fluorophenol (Surr)	*42*		*21 - 107*	*07/15/17 04:42*	*07/17/17 16:51*	*5*
Nitrobenzene-d5 (Surr)	*47*		*35 - 109*	*07/15/17 04:42*	*07/17/17 16:51*	*5*
Phenol-d5 (Surr)	*44*		*29 - 105*	*07/15/17 04:42*	*07/17/17 16:51*	*5*
Terphenyl-d14 (Surr)	*47*		*36 - 113*	*07/15/17 04:42*	*07/17/17 16:51*	*5*
2,4,6-Tribromophenol (Surr)	*47*		*20 - 134*	*07/15/17 04:42*	*07/17/17 16:51*	*5*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.019	0.0098	mg/Kg	☼	07/16/17 13:30	07/17/17 15:17	1
PCB-1221	ND		0.019	0.0096	mg/Kg	☼	07/16/17 13:30	07/17/17 15:17	1
PCB-1232	ND		0.019	0.0073	mg/Kg	☼	07/16/17 13:30	07/17/17 15:17	1
PCB-1242	ND		0.019	0.015	mg/Kg	☼	07/16/17 13:30	07/17/17 15:17	1
PCB-1248	**0.48**		0.019	0.0088	mg/Kg	☼	07/16/17 13:30	07/17/17 15:17	1
PCB-1254	**0.29**		0.019	0.0081	mg/Kg	☼	07/16/17 13:30	07/17/17 15:17	1
PCB-1260	**0.11**		0.019	0.012	mg/Kg	☼	07/16/17 13:30	07/17/17 15:17	1
PCB-1262	ND		0.019	0.013	mg/Kg	☼	07/16/17 13:30	07/17/17 15:17	1
PCB-1268	ND		0.019	0.0056	mg/Kg	☼	07/16/17 13:30	07/17/17 15:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*81*		*23 - 150*	*07/16/17 13:30*	*07/17/17 15:17*	*1*
DCB Decachlorobiphenyl (Surr)	*94*		*23 - 150*	*07/16/17 13:30*	*07/17/17 15:17*	*1*
Tetrachloro-m-xylene (Surr)	*80*		*27 - 138*	*07/16/17 13:30*	*07/17/17 15:17*	*1*
Tetrachloro-m-xylene (Surr)	*73*		*27 - 138*	*07/16/17 13:30*	*07/17/17 15:17*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**6.6**		1.1	0.47	mg/Kg	☼	07/18/17 10:32	07/20/17 14:06	1
Barium	**67**		21	5.7	mg/Kg	☼	07/18/17 10:32	07/20/17 14:06	1
Beryllium	**0.26**	**J**	0.42	0.11	mg/Kg	☼	07/18/17 10:32	07/20/17 14:06	1
Cadmium	**0.17**	**J**	0.53	0.12	mg/Kg	☼	07/18/17 10:32	07/20/17 14:06	1
Chromium	**9.2**		0.53	0.14	mg/Kg	☼	07/18/17 10:32	07/20/17 14:06	1
Copper	**36**		2.6	0.81	mg/Kg	☼	07/18/17 10:32	07/20/17 14:06	1
Lead	**45**		1.1	0.35	mg/Kg	☼	07/18/17 10:32	07/20/17 14:06	1
Manganese	**370**		1.6	0.43	mg/Kg	☼	07/18/17 10:32	07/20/17 14:06	1
Nickel	**15**		4.2	0.95	mg/Kg	☼	07/18/17 10:32	07/20/17 14:06	1
Selenium	**0.67**	**J**	1.1	0.42	mg/Kg	☼	07/18/17 10:32	07/20/17 14:06	1
Silver	ND		0.53	0.18	mg/Kg	☼	07/18/17 10:32	07/20/17 14:06	1
Zinc	**75**		2.1	1.1	mg/Kg	☼	07/18/17 10:32	07/20/17 14:06	1

Client Sample ID: W8, S2, C 71317

Lab Sample ID: 180-68219-36
Date Collected: 07/13/17 13:25
Matrix: Solid
Date Received: 07/14/17 13:15
Percent Solids: 90.0

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.60		0.037	0.0082	mg/Kg	☼	07/18/17 14:51	07/19/17 13:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	10.0		0.1	0.1	%			07/17/17 12:16	1
Percent Solids	90.0		0.1	0.1	%			07/17/17 12:16	1
Cyanide, Total	0.28	J	0.54	0.17	mg/Kg	☼	07/18/17 10:56	07/18/17 15:10	1

Client Sample ID: W8, S3, A 71317

Lab Sample ID: 180-68219-37
Date Collected: 07/13/17 13:45
Matrix: Solid
Date Received: 07/14/17 13:15
Percent Solids: 90.6

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.017	0.0028	mg/Kg	☼	07/17/17 05:28	07/17/17 18:06	1
Benzene	ND		0.0044	0.0017	mg/Kg	☼	07/17/17 05:28	07/17/17 18:06	1
2-Butanone (MEK)	ND		0.0044	0.0025	mg/Kg	☼	07/17/17 05:28	07/17/17 18:06	1
Carbon tetrachloride	ND		0.0044	0.0029	mg/Kg	☼	07/17/17 05:28	07/17/17 18:06	1
Chlorobenzene	ND		0.0044	0.0014	mg/Kg	☼	07/17/17 05:28	07/17/17 18:06	1
Chloroform	ND		0.0044	0.0018	mg/Kg	☼	07/17/17 05:28	07/17/17 18:06	1
cis-1,2-Dichloroethene	ND		0.0044	0.0014	mg/Kg	☼	07/17/17 05:28	07/17/17 18:06	1
1,2-Dichlorobenzene	ND		0.0044	0.0035	mg/Kg	☼	07/17/17 05:28	07/17/17 18:06	1
1,3-Dichlorobenzene	ND		0.0044	0.0014	mg/Kg	☼	07/17/17 05:28	07/17/17 18:06	1
1,4-Dichlorobenzene	ND		0.0044	0.00089	mg/Kg	☼	07/17/17 05:28	07/17/17 18:06	1
1,1-Dichloroethane	ND		0.0044	0.0016	mg/Kg	☼	07/17/17 05:28	07/17/17 18:06	1
1,2-Dichloroethane	ND		0.0044	0.0013	mg/Kg	☼	07/17/17 05:28	07/17/17 18:06	1
1,1-Dichloroethene	ND		0.0044	0.0025	mg/Kg	☼	07/17/17 05:28	07/17/17 18:06	1
Ethylbenzene	ND		0.0044	0.0019	mg/Kg	☼	07/17/17 05:28	07/17/17 18:06	1
Methylene Chloride	ND		0.0044	0.0021	mg/Kg	☼	07/17/17 05:28	07/17/17 18:06	1
Methyl tert-butyl ether	ND		0.0044	0.0032	mg/Kg	☼	07/17/17 05:28	07/17/17 18:06	1
n-Butylbenzene	ND		0.0044	0.0033	mg/Kg	☼	07/17/17 05:28	07/17/17 18:06	1
N-Propylbenzene	ND		0.0044	0.0018	mg/Kg	☼	07/17/17 05:28	07/17/17 18:06	1
sec-Butylbenzene	ND		0.0044	0.0021	mg/Kg	☼	07/17/17 05:28	07/17/17 18:06	1
tert-Butylbenzene	ND		0.0044	0.0016	mg/Kg	☼	07/17/17 05:28	07/17/17 18:06	1
Tetrachloroethene	ND		0.0044	0.0017	mg/Kg	☼	07/17/17 05:28	07/17/17 18:06	1
Toluene	ND		0.0044	0.0015	mg/Kg	☼	07/17/17 05:28	07/17/17 18:06	1
trans-1,2-Dichloroethene	ND		0.0044	0.0022	mg/Kg	☼	07/17/17 05:28	07/17/17 18:06	1
1,1,1-Trichloroethane	ND		0.0044	0.0022	mg/Kg	☼	07/17/17 05:28	07/17/17 18:06	1
Trichloroethene	ND		0.0044	0.0013	mg/Kg	☼	07/17/17 05:28	07/17/17 18:06	1
1,2,4-Trimethylbenzene	ND		0.0044	0.0012	mg/Kg	☼	07/17/17 05:28	07/17/17 18:06	1
1,3,5-Trimethylbenzene	ND		0.0044	0.0015	mg/Kg	☼	07/17/17 05:28	07/17/17 18:06	1
Vinyl chloride	ND		0.0044	0.0032	mg/Kg	☼	07/17/17 05:28	07/17/17 18:06	1
Xylenes, Total	ND		0.0087	0.0038	mg/Kg	☼	07/17/17 05:28	07/17/17 18:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*63 - 120*	*07/17/17 05:28*	*07/17/17 18:06*	*1*
Dibromofluoromethane (Surr)	*90*		*68 - 121*	*07/17/17 05:28*	*07/17/17 18:06*	*1*
1,2-Dichloroethane-d4 (Surr)	*82*		*52 - 124*	*07/17/17 05:28*	*07/17/17 18:06*	*1*
Toluene-d8 (Surr)	*111*		*72 - 127*	*07/17/17 05:28*	*07/17/17 18:06*	*1*

Client Sample ID: W8, S3, A 71317 — Lab Sample ID: 180-68219-37

Date Collected: 07/13/17 13:45 — **Matrix: Solid**
Date Received: 07/14/17 13:15 — **Percent Solids: 90.6**

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.4**		0.1	0.1	%			07/17/17 15:21	1
Percent Solids	**90.6**		0.1	0.1	%			07/17/17 15:21	1

Client Sample ID: W8, S3, B 71317 — Lab Sample ID: 180-68219-38

Date Collected: 07/13/17 13:50 — **Matrix: Solid**
Date Received: 07/14/17 13:15 — **Percent Solids: 91.3**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.018	0.0028	mg/Kg	☼	07/17/17 05:28	07/17/17 11:15	1
Benzene	ND	F2	0.0045	0.0018	mg/Kg	☼	07/17/17 05:28	07/17/17 11:15	1
2-Butanone (MEK)	ND		0.0045	0.0026	mg/Kg	☼	07/17/17 05:28	07/17/17 11:15	1
Carbon tetrachloride	ND		0.0045	0.0030	mg/Kg	☼	07/17/17 05:28	07/17/17 11:15	1
Chlorobenzene	ND	F2	0.0045	0.0014	mg/Kg	☼	07/17/17 05:28	07/17/17 11:15	1
Chloroform	ND		0.0045	0.0019	mg/Kg	☼	07/17/17 05:28	07/17/17 11:15	1
cis-1,2-Dichloroethene	ND		0.0045	0.0014	mg/Kg	☼	07/17/17 05:28	07/17/17 11:15	1
1,2-Dichlorobenzene	ND		0.0045	0.0036	mg/Kg	☼	07/17/17 05:28	07/17/17 11:15	1
1,3-Dichlorobenzene	ND		0.0045	0.0014	mg/Kg	☼	07/17/17 05:28	07/17/17 11:15	1
1,4-Dichlorobenzene	ND	F2	0.0045	0.00092	mg/Kg	☼	07/17/17 05:28	07/17/17 11:15	1
1,1-Dichloroethane	ND		0.0045	0.0016	mg/Kg	☼	07/17/17 05:28	07/17/17 11:15	1
1,2-Dichloroethane	ND		0.0045	0.0013	mg/Kg	☼	07/17/17 05:28	07/17/17 11:15	1
1,1-Dichloroethene	ND		0.0045	0.0026	mg/Kg	☼	07/17/17 05:28	07/17/17 11:15	1
Ethylbenzene	ND	F2	0.0045	0.0019	mg/Kg	☼	07/17/17 05:28	07/17/17 11:15	1
Methylene Chloride	**0.0021**	**J**	0.0045	0.0021	mg/Kg	☼	07/17/17 05:28	07/17/17 11:15	1
Methyl tert-butyl ether	ND		0.0045	0.0033	mg/Kg	☼	07/17/17 05:28	07/17/17 11:15	1
n-Butylbenzene	ND		0.0045	0.0034	mg/Kg	☼	07/17/17 05:28	07/17/17 11:15	1
N-Propylbenzene	ND	F2	0.0045	0.0019	mg/Kg	☼	07/17/17 05:28	07/17/17 11:15	1
sec-Butylbenzene	ND		0.0045	0.0022	mg/Kg	☼	07/17/17 05:28	07/17/17 11:15	1
tert-Butylbenzene	ND		0.0045	0.0017	mg/Kg	☼	07/17/17 05:28	07/17/17 11:15	1
Tetrachloroethene	ND	F2	0.0045	0.0018	mg/Kg	☼	07/17/17 05:28	07/17/17 11:15	1
Toluene	ND	F2	0.0045	0.0015	mg/Kg	☼	07/17/17 05:28	07/17/17 11:15	1
trans-1,2-Dichloroethene	ND		0.0045	0.0023	mg/Kg	☼	07/17/17 05:28	07/17/17 11:15	1
1,1,1-Trichloroethane	ND		0.0045	0.0023	mg/Kg	☼	07/17/17 05:28	07/17/17 11:15	1
Trichloroethene	ND		0.0045	0.0014	mg/Kg	☼	07/17/17 05:28	07/17/17 11:15	1
1,2,4-Trimethylbenzene	ND	F2	0.0045	0.0012	mg/Kg	☼	07/17/17 05:28	07/17/17 11:15	1
1,3,5-Trimethylbenzene	ND		0.0045	0.0016	mg/Kg	☼	07/17/17 05:28	07/17/17 11:15	1
Vinyl chloride	ND		0.0045	0.0033	mg/Kg	☼	07/17/17 05:28	07/17/17 11:15	1
Xylenes, Total	ND	F2	0.0090	0.0039	mg/Kg	☼	07/17/17 05:28	07/17/17 11:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*63 - 120*	*07/17/17 05:28*	*07/17/17 11:15*	*1*
Dibromofluoromethane (Surr)	*91*		*68 - 121*	*07/17/17 05:28*	*07/17/17 11:15*	*1*
1,2-Dichloroethane-d4 (Surr)	*82*		*52 - 124*	*07/17/17 05:28*	*07/17/17 11:15*	*1*
Toluene-d8 (Surr)	*112*		*72 - 127*	*07/17/17 05:28*	*07/17/17 11:15*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**8.7**		0.1	0.1	%			07/17/17 15:21	1
Percent Solids	**91.3**		0.1	0.1	%			07/17/17 15:21	1

Client Sample ID: W8, S3, C 71317
Date Collected: 07/13/17 13:55
Date Received: 07/14/17 13:15

Lab Sample ID: 180-68219-39
Matrix: Solid
Percent Solids: 86.6

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.017**		0.015	0.0051	mg/Kg	☼	07/16/17 13:37	07/17/17 13:03	2
Acenaphthylene	**0.37**		0.015	0.0052	mg/Kg	☼	07/16/17 13:37	07/17/17 13:03	2
Anthracene	**0.67**		0.015	0.0056	mg/Kg	☼	07/16/17 13:37	07/17/17 13:03	2
Benzo[a]anthracene	**2.0**		0.015	0.0061	mg/Kg	☼	07/16/17 13:37	07/17/17 13:03	2
Benzo[a]pyrene	**1.8**		0.015	0.0063	mg/Kg	☼	07/16/17 13:37	07/17/17 13:03	2
Benzo[b]fluoranthene	**2.1**		0.015	0.0066	mg/Kg	☼	07/16/17 13:37	07/17/17 13:03	2
Benzo[g,h,i]perylene	**1.4**		0.015	0.0066	mg/Kg	☼	07/16/17 13:37	07/17/17 13:03	2
Benzo[k]fluoranthene	**0.85**		0.015	0.0053	mg/Kg	☼	07/16/17 13:37	07/17/17 13:03	2
Chrysene	**1.6**		0.015	0.0060	mg/Kg	☼	07/16/17 13:37	07/17/17 13:03	2
Dibenz(a,h)anthracene	**0.36**		0.015	0.0063	mg/Kg	☼	07/16/17 13:37	07/17/17 13:03	2
Dibenzofuran	**0.11**		0.076	0.0061	mg/Kg	☼	07/16/17 13:37	07/17/17 13:03	2
2,4-Dinitrotoluene	ND		0.076	0.010	mg/Kg	☼	07/16/17 13:37	07/17/17 13:03	2
1,4-Dioxane	ND		0.15	0.012	mg/Kg	☼	07/16/17 13:37	07/17/17 13:03	2
Fluoranthene	**3.8**	**E**	0.015	0.0060	mg/Kg	☼	07/16/17 13:37	07/17/17 13:03	2
Fluorene	**0.12**		0.015	0.0055	mg/Kg	☼	07/16/17 13:37	07/17/17 13:03	2
Hexachlorobenzene	ND		0.015	0.0062	mg/Kg	☼	07/16/17 13:37	07/17/17 13:03	2
Hexachlorobutadiene	ND		0.015	0.0048	mg/Kg	☼	07/16/17 13:37	07/17/17 13:03	2
Hexachloroethane	ND		0.076	0.0055	mg/Kg	☼	07/16/17 13:37	07/17/17 13:03	2
Indeno[1,2,3-cd]pyrene	**1.3**		0.015	0.0059	mg/Kg	☼	07/16/17 13:37	07/17/17 13:03	2
2-Methylphenol	**0.0096**	**J**	0.076	0.0068	mg/Kg	☼	07/16/17 13:37	07/17/17 13:03	2
Methylphenol, 3 & 4	**0.045**	**J**	0.076	0.0068	mg/Kg	☼	07/16/17 13:37	07/17/17 13:03	2
Naphthalene	**0.19**		0.015	0.0055	mg/Kg	☼	07/16/17 13:37	07/17/17 13:03	2
Nitrobenzene	ND		0.15	0.0058	mg/Kg	☼	07/16/17 13:37	07/17/17 13:03	2
Pentachlorophenol	ND		0.39	0.14	mg/Kg	☼	07/16/17 13:37	07/17/17 13:03	2
Phenanthrene	**2.5**		0.015	0.0064	mg/Kg	☼	07/16/17 13:37	07/17/17 13:03	2
Phenol	**0.033**	**J**	0.076	0.010	mg/Kg	☼	07/16/17 13:37	07/17/17 13:03	2
Pyrene	**3.4**	**E**	0.015	0.0068	mg/Kg	☼	07/16/17 13:37	07/17/17 13:03	2
Pyridine	ND		0.076	0.0073	mg/Kg	☼	07/16/17 13:37	07/17/17 13:03	2
2,4,5-Trichlorophenol	ND		0.076	0.0073	mg/Kg	☼	07/16/17 13:37	07/17/17 13:03	2
2,4,6-Trichlorophenol	ND		0.076	0.0067	mg/Kg	☼	07/16/17 13:37	07/17/17 13:03	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*70*		*42 - 100*	*07/16/17 13:37*	*07/17/17 13:03*	*2*
2-Fluorophenol (Surr)	*60*		*21 - 107*	*07/16/17 13:37*	*07/17/17 13:03*	*2*
Nitrobenzene-d5 (Surr)	*66*		*35 - 109*	*07/16/17 13:37*	*07/17/17 13:03*	*2*
Phenol-d5 (Surr)	*66*		*29 - 105*	*07/16/17 13:37*	*07/17/17 13:03*	*2*
Terphenyl-d14 (Surr)	*76*		*36 - 113*	*07/16/17 13:37*	*07/17/17 13:03*	*2*
2,4,6-Tribromophenol (Surr)	*76*		*20 - 134*	*07/16/17 13:37*	*07/17/17 13:03*	*2*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.077	0.026	mg/Kg	☼	07/16/17 13:37	07/18/17 16:15	10
Acenaphthylene	**0.33**		0.077	0.026	mg/Kg	☼	07/16/17 13:37	07/18/17 16:15	10
Anthracene	**0.67**		0.077	0.028	mg/Kg	☼	07/16/17 13:37	07/18/17 16:15	10
Benzo[a]anthracene	**2.1**		0.077	0.030	mg/Kg	☼	07/16/17 13:37	07/18/17 16:15	10
Benzo[a]pyrene	**1.9**		0.077	0.032	mg/Kg	☼	07/16/17 13:37	07/18/17 16:15	10
Benzo[b]fluoranthene	**2.4**		0.077	0.033	mg/Kg	☼	07/16/17 13:37	07/18/17 16:15	10
Benzo[g,h,i]perylene	**1.3**		0.077	0.033	mg/Kg	☼	07/16/17 13:37	07/18/17 16:15	10
Benzo[k]fluoranthene	**0.86**		0.077	0.026	mg/Kg	☼	07/16/17 13:37	07/18/17 16:15	10
Chrysene	**1.7**		0.077	0.030	mg/Kg	☼	07/16/17 13:37	07/18/17 16:15	10

Client Sample ID: W8, S3, C 71317 **Lab Sample ID: 180-68219-39**
Date Collected: 07/13/17 13:55 **Matrix: Solid**
Date Received: 07/14/17 13:15 **Percent Solids: 86.6**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	**0.33**		0.077	0.032	mg/Kg	☼	07/16/17 13:37	07/18/17 16:15	10
Dibenzofuran	**0.12**	**J**	0.38	0.031	mg/Kg	☼	07/16/17 13:37	07/18/17 16:15	10
2,4-Dinitrotoluene	ND		0.38	0.051	mg/Kg	☼	07/16/17 13:37	07/18/17 16:15	10
1,4-Dioxane	ND		0.77	0.058	mg/Kg	☼	07/16/17 13:37	07/18/17 16:15	10
Fluoranthene	**4.4**		0.077	0.030	mg/Kg	☼	07/16/17 13:37	07/18/17 16:15	10
Fluorene	**0.13**		0.077	0.027	mg/Kg	☼	07/16/17 13:37	07/18/17 16:15	10
Hexachlorobenzene	ND		0.077	0.031	mg/Kg	☼	07/16/17 13:37	07/18/17 16:15	10
Hexachlorobutadiene	ND		0.077	0.024	mg/Kg	☼	07/16/17 13:37	07/18/17 16:15	10
Hexachloroethane	ND		0.38	0.027	mg/Kg	☼	07/16/17 13:37	07/18/17 16:15	10
Indeno[1,2,3-cd]pyrene	**1.2**		0.077	0.030	mg/Kg	☼	07/16/17 13:37	07/18/17 16:15	10
2-Methylphenol	ND		0.38	0.034	mg/Kg	☼	07/16/17 13:37	07/18/17 16:15	10
Methylphenol, 3 & 4	**0.041**	**J**	0.38	0.034	mg/Kg	☼	07/16/17 13:37	07/18/17 16:15	10
Naphthalene	**0.21**		0.077	0.028	mg/Kg	☼	07/16/17 13:37	07/18/17 16:15	10
Nitrobenzene	ND		0.77	0.029	mg/Kg	☼	07/16/17 13:37	07/18/17 16:15	10
Pentachlorophenol	ND		2.0	0.72	mg/Kg	☼	07/16/17 13:37	07/18/17 16:15	10
Phenanthrene	**2.8**		0.077	0.032	mg/Kg	☼	07/16/17 13:37	07/18/17 16:15	10
Phenol	ND		0.38	0.052	mg/Kg	☼	07/16/17 13:37	07/18/17 16:15	10
Pyrene	**3.8**		0.077	0.034	mg/Kg	☼	07/16/17 13:37	07/18/17 16:15	10
Pyridine	ND		0.38	0.037	mg/Kg	☼	07/16/17 13:37	07/18/17 16:15	10
2,4,5-Trichlorophenol	ND		0.38	0.036	mg/Kg	☼	07/16/17 13:37	07/18/17 16:15	10
2,4,6-Trichlorophenol	ND		0.38	0.034	mg/Kg	☼	07/16/17 13:37	07/18/17 16:15	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*77*		*42 - 100*	*07/16/17 13:37*	*07/18/17 16:15*	*10*
2-Fluorophenol (Surr)	*60*		*21 - 107*	*07/16/17 13:37*	*07/18/17 16:15*	*10*
Nitrobenzene-d5 (Surr)	*68*		*35 - 109*	*07/16/17 13:37*	*07/18/17 16:15*	*10*
Phenol-d5 (Surr)	*68*		*29 - 105*	*07/16/17 13:37*	*07/18/17 16:15*	*10*
Terphenyl-d14 (Surr)	*86*		*36 - 113*	*07/16/17 13:37*	*07/18/17 16:15*	*10*
2,4,6-Tribromophenol (Surr)	*73*		*20 - 134*	*07/16/17 13:37*	*07/18/17 16:15*	*10*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.019	0.010	mg/Kg	☼	07/16/17 13:30	07/17/17 15:37	1
PCB-1221	ND		0.019	0.0098	mg/Kg	☼	07/16/17 13:30	07/17/17 15:37	1
PCB-1232	ND		0.019	0.0075	mg/Kg	☼	07/16/17 13:30	07/17/17 15:37	1
PCB-1242	ND		0.019	0.015	mg/Kg	☼	07/16/17 13:30	07/17/17 15:37	1
PCB-1248	**0.17**		0.019	0.0090	mg/Kg	☼	07/16/17 13:30	07/17/17 15:37	1
PCB-1254	**0.079**		0.019	0.0083	mg/Kg	☼	07/16/17 13:30	07/17/17 15:37	1
PCB-1260	**0.030**		0.019	0.013	mg/Kg	☼	07/16/17 13:30	07/17/17 15:37	1
PCB-1262	ND		0.019	0.014	mg/Kg	☼	07/16/17 13:30	07/17/17 15:37	1
PCB-1268	ND		0.019	0.0057	mg/Kg	☼	07/16/17 13:30	07/17/17 15:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*86*		*23 - 150*	*07/16/17 13:30*	*07/17/17 15:37*	*1*
DCB Decachlorobiphenyl (Surr)	*95*		*23 - 150*	*07/16/17 13:30*	*07/17/17 15:37*	*1*
Tetrachloro-m-xylene (Surr)	*83*		*27 - 138*	*07/16/17 13:30*	*07/17/17 15:37*	*1*
Tetrachloro-m-xylene (Surr)	*80*		*27 - 138*	*07/16/17 13:30*	*07/17/17 15:37*	*1*

Client Sample ID: W8, S3, C 71317

Lab Sample ID: 180-68219-39
Date Collected: 07/13/17 13:55
Matrix: Solid
Date Received: 07/14/17 13:15
Percent Solids: 86.6

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.5		1.2	0.53	mg/Kg	☼	07/18/17 10:32	07/20/17 14:11	1
Barium	76		24	6.4	mg/Kg	☼	07/18/17 10:32	07/20/17 14:11	1
Beryllium	0.42	J	0.48	0.12	mg/Kg	☼	07/18/17 10:32	07/20/17 14:11	1
Cadmium	0.13	J	0.60	0.13	mg/Kg	☼	07/18/17 10:32	07/20/17 14:11	1
Chromium	11		0.60	0.15	mg/Kg	☼	07/18/17 10:32	07/20/17 14:11	1
Copper	23		3.0	0.92	mg/Kg	☼	07/18/17 10:32	07/20/17 14:11	1
Lead	33		1.2	0.39	mg/Kg	☼	07/18/17 10:32	07/20/17 14:11	1
Manganese	390		1.8	0.48	mg/Kg	☼	07/18/17 10:32	07/20/17 14:11	1
Nickel	19		4.8	1.1	mg/Kg	☼	07/18/17 10:32	07/20/17 14:11	1
Selenium	ND		1.2	0.47	mg/Kg	☼	07/18/17 10:32	07/20/17 14:11	1
Silver	ND		0.60	0.20	mg/Kg	☼	07/18/17 10:32	07/20/17 14:11	1
Zinc	83		2.4	1.2	mg/Kg	☼	07/18/17 10:32	07/20/17 14:11	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.16		0.036	0.0081	mg/Kg	☼	07/18/17 14:51	07/19/17 13:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	13.4		0.1	0.1	%			07/17/17 12:16	1
Percent Solids	86.6		0.1	0.1	%			07/17/17 12:16	1
Cyanide, Total	0.64		0.54	0.17	mg/Kg	☼	07/18/17 10:56	07/18/17 15:11	1

Client Sample ID: DUP-11

Lab Sample ID: 180-68219-50
Date Collected: 07/13/17 00:00
Matrix: Solid
Date Received: 07/14/17 13:15
Percent Solids: 92.7

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.018	0.0028	mg/Kg	☼	07/18/17 06:00	07/18/17 12:38	1
Benzene	ND		0.0044	0.0017	mg/Kg	☼	07/18/17 06:00	07/18/17 12:38	1
2-Butanone (MEK)	ND		0.0044	0.0025	mg/Kg	☼	07/18/17 06:00	07/18/17 12:38	1
Carbon tetrachloride	ND		0.0044	0.0029	mg/Kg	☼	07/18/17 06:00	07/18/17 12:38	1
Chlorobenzene	ND		0.0044	0.0014	mg/Kg	☼	07/18/17 06:00	07/18/17 12:38	1
Chloroform	ND		0.0044	0.0019	mg/Kg	☼	07/18/17 06:00	07/18/17 12:38	1
cis-1,2-Dichloroethene	ND		0.0044	0.0014	mg/Kg	☼	07/18/17 06:00	07/18/17 12:38	1
1,2-Dichlorobenzene	ND		0.0044	0.0035	mg/Kg	☼	07/18/17 06:00	07/18/17 12:38	1
1,3-Dichlorobenzene	ND		0.0044	0.0014	mg/Kg	☼	07/18/17 06:00	07/18/17 12:38	1
1,4-Dichlorobenzene	ND		0.0044	0.00090	mg/Kg	☼	07/18/17 06:00	07/18/17 12:38	1
1,1-Dichloroethane	ND		0.0044	0.0016	mg/Kg	☼	07/18/17 06:00	07/18/17 12:38	1
1,2-Dichloroethane	ND		0.0044	0.0013	mg/Kg	☼	07/18/17 06:00	07/18/17 12:38	1
1,1-Dichloroethene	ND		0.0044	0.0025	mg/Kg	☼	07/18/17 06:00	07/18/17 12:38	1
Ethylbenzene	ND		0.0044	0.0019	mg/Kg	☼	07/18/17 06:00	07/18/17 12:38	1
Methylene Chloride	ND		0.0044	0.0021	mg/Kg	☼	07/18/17 06:00	07/18/17 12:38	1
Methyl tert-butyl ether	ND		0.0044	0.0032	mg/Kg	☼	07/18/17 06:00	07/18/17 12:38	1
n-Butylbenzene	ND		0.0044	0.0033	mg/Kg	☼	07/18/17 06:00	07/18/17 12:38	1
N-Propylbenzene	ND		0.0044	0.0019	mg/Kg	☼	07/18/17 06:00	07/18/17 12:38	1
sec-Butylbenzene	ND		0.0044	0.0021	mg/Kg	☼	07/18/17 06:00	07/18/17 12:38	1
tert-Butylbenzene	ND		0.0044	0.0016	mg/Kg	☼	07/18/17 06:00	07/18/17 12:38	1
Tetrachloroethene	ND		0.0044	0.0018	mg/Kg	☼	07/18/17 06:00	07/18/17 12:38	1

Client Sample ID: DUP-11

Date Collected: 07/13/17 00:00
Date Received: 07/14/17 13:15

Lab Sample ID: 180-68219-50

Matrix: Solid
Percent Solids: 92.7

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		0.0044	0.0015	mg/Kg	☼	07/18/17 06:00	07/18/17 12:38	1
trans-1,2-Dichloroethene	ND		0.0044	0.0022	mg/Kg	☼	07/18/17 06:00	07/18/17 12:38	1
1,1,1-Trichloroethane	ND		0.0044	0.0022	mg/Kg	☼	07/18/17 06:00	07/18/17 12:38	1
Trichloroethene	ND		0.0044	0.0013	mg/Kg	☼	07/18/17 06:00	07/18/17 12:38	1
1,2,4-Trimethylbenzene	ND		0.0044	0.0012	mg/Kg	☼	07/18/17 06:00	07/18/17 12:38	1
1,3,5-Trimethylbenzene	ND		0.0044	0.0015	mg/Kg	☼	07/18/17 06:00	07/18/17 12:38	1
Vinyl chloride	ND		0.0044	0.0032	mg/Kg	☼	07/18/17 06:00	07/18/17 12:38	1
Xylenes, Total	ND		0.0088	0.0038	mg/Kg	☼	07/18/17 06:00	07/18/17 12:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*63 - 120*	*07/18/17 06:00*	*07/18/17 12:38*	*1*
Dibromofluoromethane (Surr)	*92*		*68 - 121*	*07/18/17 06:00*	*07/18/17 12:38*	*1*
1,2-Dichloroethane-d4 (Surr)	*80*		*52 - 124*	*07/18/17 06:00*	*07/18/17 12:38*	*1*
Toluene-d8 (Surr)	*114*		*72 - 127*	*07/18/17 06:00*	*07/18/17 12:38*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**7.3**		0.1	0.1	%			07/17/17 15:21	1
Percent Solids	**92.7**		0.1	0.1	%			07/17/17 15:21	1

Client Sample ID: DUP-12

Date Collected: 07/13/17 00:00
Date Received: 07/14/17 13:15

Lab Sample ID: 180-68219-51

Matrix: Solid
Percent Solids: 92.0

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.016	0.0026	mg/Kg	☼	07/18/17 06:00	07/18/17 13:01	1
Benzene	ND		0.0041	0.0016	mg/Kg	☼	07/18/17 06:00	07/18/17 13:01	1
2-Butanone (MEK)	ND		0.0041	0.0024	mg/Kg	☼	07/18/17 06:00	07/18/17 13:01	1
Carbon tetrachloride	ND		0.0041	0.0027	mg/Kg	☼	07/18/17 06:00	07/18/17 13:01	1
Chlorobenzene	ND		0.0041	0.0013	mg/Kg	☼	07/18/17 06:00	07/18/17 13:01	1
Chloroform	ND		0.0041	0.0017	mg/Kg	☼	07/18/17 06:00	07/18/17 13:01	1
cis-1,2-Dichloroethene	ND		0.0041	0.0013	mg/Kg	☼	07/18/17 06:00	07/18/17 13:01	1
1,2-Dichlorobenzene	ND		0.0041	0.0033	mg/Kg	☼	07/18/17 06:00	07/18/17 13:01	1
1,3-Dichlorobenzene	ND		0.0041	0.0013	mg/Kg	☼	07/18/17 06:00	07/18/17 13:01	1
1,4-Dichlorobenzene	ND		0.0041	0.00083	mg/Kg	☼	07/18/17 06:00	07/18/17 13:01	1
1,1-Dichloroethane	ND		0.0041	0.0015	mg/Kg	☼	07/18/17 06:00	07/18/17 13:01	1
1,2-Dichloroethane	ND		0.0041	0.0012	mg/Kg	☼	07/18/17 06:00	07/18/17 13:01	1
1,1-Dichloroethene	ND		0.0041	0.0023	mg/Kg	☼	07/18/17 06:00	07/18/17 13:01	1
Ethylbenzene	ND		0.0041	0.0018	mg/Kg	☼	07/18/17 06:00	07/18/17 13:01	1
Methylene Chloride	ND		0.0041	0.0019	mg/Kg	☼	07/18/17 06:00	07/18/17 13:01	1
Methyl tert-butyl ether	ND		0.0041	0.0030	mg/Kg	☼	07/18/17 06:00	07/18/17 13:01	1
n-Butylbenzene	ND		0.0041	0.0031	mg/Kg	☼	07/18/17 06:00	07/18/17 13:01	1
N-Propylbenzene	ND		0.0041	0.0017	mg/Kg	☼	07/18/17 06:00	07/18/17 13:01	1
sec-Butylbenzene	ND		0.0041	0.0020	mg/Kg	☼	07/18/17 06:00	07/18/17 13:01	1
tert-Butylbenzene	ND		0.0041	0.0015	mg/Kg	☼	07/18/17 06:00	07/18/17 13:01	1
Tetrachloroethene	ND		0.0041	0.0016	mg/Kg	☼	07/18/17 06:00	07/18/17 13:01	1
Toluene	ND		0.0041	0.0014	mg/Kg	☼	07/18/17 06:00	07/18/17 13:01	1
trans-1,2-Dichloroethene	ND		0.0041	0.0021	mg/Kg	☼	07/18/17 06:00	07/18/17 13:01	1
1,1,1-Trichloroethane	ND		0.0041	0.0020	mg/Kg	☼	07/18/17 06:00	07/18/17 13:01	1

Client Sample ID: DUP-12

Date Collected: 07/13/17 00:00
Date Received: 07/14/17 13:15

Lab Sample ID: 180-68219-51

Matrix: Solid
Percent Solids: 92.0

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	ND		0.0041	0.0012	mg/Kg	☼	07/18/17 06:00	07/18/17 13:01	1
1,2,4-Trimethylbenzene	ND		0.0041	0.0011	mg/Kg	☼	07/18/17 06:00	07/18/17 13:01	1
1,3,5-Trimethylbenzene	ND		0.0041	0.0014	mg/Kg	☼	07/18/17 06:00	07/18/17 13:01	1
Vinyl chloride	ND		0.0041	0.0030	mg/Kg	☼	07/18/17 06:00	07/18/17 13:01	1
Xylenes, Total	ND		0.0082	0.0035	mg/Kg	☼	07/18/17 06:00	07/18/17 13:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*63 - 120*	*07/18/17 06:00*	*07/18/17 13:01*	*1*
Dibromofluoromethane (Surr)	*92*		*68 - 121*	*07/18/17 06:00*	*07/18/17 13:01*	*1*
1,2-Dichloroethane-d4 (Surr)	*81*		*52 - 124*	*07/18/17 06:00*	*07/18/17 13:01*	*1*
Toluene-d8 (Surr)	*113*		*72 - 127*	*07/18/17 06:00*	*07/18/17 13:01*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**8.0**		0.1	0.1	%			07/17/17 15:21	1
Percent Solids	**92.0**		0.1	0.1	%			07/17/17 15:21	1

Client Sample ID: DUP-13

Date Collected: 07/13/17 00:00
Date Received: 07/14/17 13:15

Lab Sample ID: 180-68219-52

Matrix: Solid
Percent Solids: 91.0

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.017	0.0027	mg/Kg	☼	07/18/17 06:00	07/18/17 13:23	1
Benzene	ND		0.0043	0.0017	mg/Kg	☼	07/18/17 06:00	07/18/17 13:23	1
2-Butanone (MEK)	ND		0.0043	0.0025	mg/Kg	☼	07/18/17 06:00	07/18/17 13:23	1
Carbon tetrachloride	ND		0.0043	0.0029	mg/Kg	☼	07/18/17 06:00	07/18/17 13:23	1
Chlorobenzene	ND		0.0043	0.0014	mg/Kg	☼	07/18/17 06:00	07/18/17 13:23	1
Chloroform	ND		0.0043	0.0018	mg/Kg	☼	07/18/17 06:00	07/18/17 13:23	1
cis-1,2-Dichloroethene	ND		0.0043	0.0014	mg/Kg	☼	07/18/17 06:00	07/18/17 13:23	1
1,2-Dichlorobenzene	ND		0.0043	0.0035	mg/Kg	☼	07/18/17 06:00	07/18/17 13:23	1
1,3-Dichlorobenzene	ND		0.0043	0.0014	mg/Kg	☼	07/18/17 06:00	07/18/17 13:23	1
1,4-Dichlorobenzene	ND		0.0043	0.00088	mg/Kg	☼	07/18/17 06:00	07/18/17 13:23	1
1,1-Dichloroethane	ND		0.0043	0.0016	mg/Kg	☼	07/18/17 06:00	07/18/17 13:23	1
1,2-Dichloroethane	ND		0.0043	0.0013	mg/Kg	☼	07/18/17 06:00	07/18/17 13:23	1
1,1-Dichloroethene	ND		0.0043	0.0025	mg/Kg	☼	07/18/17 06:00	07/18/17 13:23	1
Ethylbenzene	ND		0.0043	0.0019	mg/Kg	☼	07/18/17 06:00	07/18/17 13:23	1
Methylene Chloride	ND		0.0043	0.0020	mg/Kg	☼	07/18/17 06:00	07/18/17 13:23	1
Methyl tert-butyl ether	ND		0.0043	0.0032	mg/Kg	☼	07/18/17 06:00	07/18/17 13:23	1
n-Butylbenzene	ND		0.0043	0.0033	mg/Kg	☼	07/18/17 06:00	07/18/17 13:23	1
N-Propylbenzene	ND		0.0043	0.0018	mg/Kg	☼	07/18/17 06:00	07/18/17 13:23	1
sec-Butylbenzene	ND		0.0043	0.0021	mg/Kg	☼	07/18/17 06:00	07/18/17 13:23	1
tert-Butylbenzene	ND		0.0043	0.0016	mg/Kg	☼	07/18/17 06:00	07/18/17 13:23	1
Tetrachloroethene	ND		0.0043	0.0017	mg/Kg	☼	07/18/17 06:00	07/18/17 13:23	1
Toluene	ND		0.0043	0.0015	mg/Kg	☼	07/18/17 06:00	07/18/17 13:23	1
trans-1,2-Dichloroethene	ND		0.0043	0.0022	mg/Kg	☼	07/18/17 06:00	07/18/17 13:23	1
1,1,1-Trichloroethane	ND		0.0043	0.0022	mg/Kg	☼	07/18/17 06:00	07/18/17 13:23	1
Trichloroethene	ND		0.0043	0.0013	mg/Kg	☼	07/18/17 06:00	07/18/17 13:23	1
1,2,4-Trimethylbenzene	ND		0.0043	0.0012	mg/Kg	☼	07/18/17 06:00	07/18/17 13:23	1
1,3,5-Trimethylbenzene	ND		0.0043	0.0015	mg/Kg	☼	07/18/17 06:00	07/18/17 13:23	1

Client Sample ID: DUP-13

Date Collected: 07/13/17 00:00
Date Received: 07/14/17 13:15

Lab Sample ID: 180-68219-52
Matrix: Solid
Percent Solids: 91.0

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		0.0043	0.0032	mg/Kg	☼	07/18/17 06:00	07/18/17 13:23	1
Xylenes, Total	ND		0.0086	0.0037	mg/Kg	☼	07/18/17 06:00	07/18/17 13:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*84*		*63 - 120*	*07/18/17 06:00*	*07/18/17 13:23*	*1*
Dibromofluoromethane (Surr)	*93*		*68 - 121*	*07/18/17 06:00*	*07/18/17 13:23*	*1*
1,2-Dichloroethane-d4 (Surr)	*82*		*52 - 124*	*07/18/17 06:00*	*07/18/17 13:23*	*1*
Toluene-d8 (Surr)	*118*		*72 - 127*	*07/18/17 06:00*	*07/18/17 13:23*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.0**		0.1	0.1	%			07/17/17 15:21	1
Percent Solids	**91.0**		0.1	0.1	%			07/17/17 15:21	1

Client Sample ID: DUP-9

Date Collected: 07/13/17 00:00
Date Received: 07/14/17 13:15

Lab Sample ID: 180-68219-53
Matrix: Solid
Percent Solids: 87.3

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.019	0.0030	mg/Kg	☼	07/19/17 05:28	07/19/17 09:15	1
Benzene	ND		0.0048	0.0019	mg/Kg	☼	07/19/17 05:28	07/19/17 09:15	1
2-Butanone (MEK)	ND		0.0048	0.0028	mg/Kg	☼	07/19/17 05:28	07/19/17 09:15	1
Carbon tetrachloride	ND		0.0048	0.0032	mg/Kg	☼	07/19/17 05:28	07/19/17 09:15	1
Chlorobenzene	ND		0.0048	0.0015	mg/Kg	☼	07/19/17 05:28	07/19/17 09:15	1
Chloroform	ND		0.0048	0.0020	mg/Kg	☼	07/19/17 05:28	07/19/17 09:15	1
cis-1,2-Dichloroethene	ND		0.0048	0.0015	mg/Kg	☼	07/19/17 05:28	07/19/17 09:15	1
1,2-Dichlorobenzene	ND		0.0048	0.0038	mg/Kg	☼	07/19/17 05:28	07/19/17 09:15	1
1,3-Dichlorobenzene	ND		0.0048	0.0015	mg/Kg	☼	07/19/17 05:28	07/19/17 09:15	1
1,4-Dichlorobenzene	ND		0.0048	0.00097	mg/Kg	☼	07/19/17 05:28	07/19/17 09:15	1
1,1-Dichloroethane	ND		0.0048	0.0017	mg/Kg	☼	07/19/17 05:28	07/19/17 09:15	1
1,2-Dichloroethane	ND		0.0048	0.0014	mg/Kg	☼	07/19/17 05:28	07/19/17 09:15	1
1,1-Dichloroethene	ND		0.0048	0.0027	mg/Kg	☼	07/19/17 05:28	07/19/17 09:15	1
Ethylbenzene	ND		0.0048	0.0020	mg/Kg	☼	07/19/17 05:28	07/19/17 09:15	1
Methylene Chloride	ND		0.0048	0.0022	mg/Kg	☼	07/19/17 05:28	07/19/17 09:15	1
Methyl tert-butyl ether	ND		0.0048	0.0035	mg/Kg	☼	07/19/17 05:28	07/19/17 09:15	1
n-Butylbenzene	ND		0.0048	0.0036	mg/Kg	☼	07/19/17 05:28	07/19/17 09:15	1
N-Propylbenzene	ND		0.0048	0.0020	mg/Kg	☼	07/19/17 05:28	07/19/17 09:15	1
sec-Butylbenzene	ND		0.0048	0.0023	mg/Kg	☼	07/19/17 05:28	07/19/17 09:15	1
tert-Butylbenzene	ND		0.0048	0.0017	mg/Kg	☼	07/19/17 05:28	07/19/17 09:15	1
Tetrachloroethene	ND		0.0048	0.0019	mg/Kg	☼	07/19/17 05:28	07/19/17 09:15	1
Toluene	ND		0.0048	0.0016	mg/Kg	☼	07/19/17 05:28	07/19/17 09:15	1
trans-1,2-Dichloroethene	ND		0.0048	0.0024	mg/Kg	☼	07/19/17 05:28	07/19/17 09:15	1
1,1,1-Trichloroethane	ND		0.0048	0.0024	mg/Kg	☼	07/19/17 05:28	07/19/17 09:15	1
Trichloroethene	ND		0.0048	0.0014	mg/Kg	☼	07/19/17 05:28	07/19/17 09:15	1
1,2,4-Trimethylbenzene	ND		0.0048	0.0013	mg/Kg	☼	07/19/17 05:28	07/19/17 09:15	1
1,3,5-Trimethylbenzene	ND		0.0048	0.0016	mg/Kg	☼	07/19/17 05:28	07/19/17 09:15	1
Vinyl chloride	ND		0.0048	0.0035	mg/Kg	☼	07/19/17 05:28	07/19/17 09:15	1
Xylenes, Total	ND		0.0095	0.0041	mg/Kg	☼	07/19/17 05:28	07/19/17 09:15	1

Client Sample ID: DUP-9

Lab Sample ID: 180-68219-53
Date Collected: 07/13/17 00:00
Matrix: Solid
Date Received: 07/14/17 13:15
Percent Solids: 87.3

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*97*		*63 - 120*	*07/19/17 05:28*	*07/19/17 09:15*	*1*
Dibromofluoromethane (Surr)	*92*		*68 - 121*	*07/19/17 05:28*	*07/19/17 09:15*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*52 - 124*	*07/19/17 05:28*	*07/19/17 09:15*	*1*
Toluene-d8 (Surr)	*105*		*72 - 127*	*07/19/17 05:28*	*07/19/17 09:15*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**12.7**		0.1	0.1	%			07/17/17 15:21	1
Percent Solids	**87.3**		0.1	0.1	%			07/17/17 15:21	1

Client Sample ID: DUP-10

Lab Sample ID: 180-68219-54
Date Collected: 07/13/17 00:00
Matrix: Solid
Date Received: 07/14/17 13:15
Percent Solids: 87.2

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.038	0.013	mg/Kg	☼	07/16/17 13:37	07/17/17 13:30	5
Acenaphthylene	**0.10**		0.038	0.013	mg/Kg	☼	07/16/17 13:37	07/17/17 13:30	5
Anthracene	**0.066**		0.038	0.014	mg/Kg	☼	07/16/17 13:37	07/17/17 13:30	5
Benzo[a]anthracene	**0.18**		0.038	0.015	mg/Kg	☼	07/16/17 13:37	07/17/17 13:30	5
Benzo[a]pyrene	**0.19**		0.038	0.016	mg/Kg	☼	07/16/17 13:37	07/17/17 13:30	5
Benzo[b]fluoranthene	**0.21**		0.038	0.016	mg/Kg	☼	07/16/17 13:37	07/17/17 13:30	5
Benzo[g,h,i]perylene	**0.18**		0.038	0.016	mg/Kg	☼	07/16/17 13:37	07/17/17 13:30	5
Benzo[k]fluoranthene	**0.088**		0.038	0.013	mg/Kg	☼	07/16/17 13:37	07/17/17 13:30	5
Chrysene	**0.18**		0.038	0.015	mg/Kg	☼	07/16/17 13:37	07/17/17 13:30	5
Dibenz(a,h)anthracene	**0.042**		0.038	0.016	mg/Kg	☼	07/16/17 13:37	07/17/17 13:30	5
Dibenzofuran	ND		0.19	0.015	mg/Kg	☼	07/16/17 13:37	07/17/17 13:30	5
2,4-Dinitrotoluene	ND		0.19	0.025	mg/Kg	☼	07/16/17 13:37	07/17/17 13:30	5
1,4-Dioxane	ND		0.38	0.029	mg/Kg	☼	07/16/17 13:37	07/17/17 13:30	5
Fluoranthene	**0.26**		0.038	0.015	mg/Kg	☼	07/16/17 13:37	07/17/17 13:30	5
Fluorene	**0.016**	**J**	0.038	0.014	mg/Kg	☼	07/16/17 13:37	07/17/17 13:30	5
Hexachlorobenzene	ND		0.038	0.015	mg/Kg	☼	07/16/17 13:37	07/17/17 13:30	5
Hexachlorobutadiene	ND		0.038	0.012	mg/Kg	☼	07/16/17 13:37	07/17/17 13:30	5
Hexachloroethane	ND		0.19	0.014	mg/Kg	☼	07/16/17 13:37	07/17/17 13:30	5
Indeno[1,2,3-cd]pyrene	**0.14**		0.038	0.015	mg/Kg	☼	07/16/17 13:37	07/17/17 13:30	5
2-Methylphenol	ND		0.19	0.017	mg/Kg	☼	07/16/17 13:37	07/17/17 13:30	5
Methylphenol, 3 & 4	ND		0.19	0.017	mg/Kg	☼	07/16/17 13:37	07/17/17 13:30	5
Naphthalene	**0.050**		0.038	0.014	mg/Kg	☼	07/16/17 13:37	07/17/17 13:30	5
Nitrobenzene	ND		0.38	0.015	mg/Kg	☼	07/16/17 13:37	07/17/17 13:30	5
Pentachlorophenol	ND		0.97	0.36	mg/Kg	☼	07/16/17 13:37	07/17/17 13:30	5
Phenanthrene	**0.14**		0.038	0.016	mg/Kg	☼	07/16/17 13:37	07/17/17 13:30	5
Phenol	ND		0.19	0.026	mg/Kg	☼	07/16/17 13:37	07/17/17 13:30	5
Pyrene	**0.27**		0.038	0.017	mg/Kg	☼	07/16/17 13:37	07/17/17 13:30	5
Pyridine	ND		0.19	0.018	mg/Kg	☼	07/16/17 13:37	07/17/17 13:30	5
2,4,5-Trichlorophenol	ND		0.19	0.018	mg/Kg	☼	07/16/17 13:37	07/17/17 13:30	5
2,4,6-Trichlorophenol	ND		0.19	0.017	mg/Kg	☼	07/16/17 13:37	07/17/17 13:30	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	*67*		*42 - 100*	*07/16/17 13:37*	*07/17/17 13:30*	*5*
2-Fluorophenol (Surr)	*58*		*21 - 107*	*07/16/17 13:37*	*07/17/17 13:30*	*5*
Nitrobenzene-d5 (Surr)	*65*		*35 - 109*	*07/16/17 13:37*	*07/17/17 13:30*	*5*

Client Sample ID: DUP-10
Date Collected: 07/13/17 00:00
Date Received: 07/14/17 13:15

Lab Sample ID: 180-68219-54
Matrix: Solid
Percent Solids: 87.2

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Phenol-d5 (Surr)	*61*		*29 - 105*	*07/16/17 13:37*	*07/17/17 13:30*	*5*
Terphenyl-d14 (Surr)	*72*		*36 - 113*	*07/16/17 13:37*	*07/17/17 13:30*	*5*
2,4,6-Tribromophenol (Surr)	*66*		*20 - 134*	*07/16/17 13:37*	*07/17/17 13:30*	*5*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.019	0.010	mg/Kg	☼	07/16/17 13:30	07/17/17 15:57	1
PCB-1221	ND		0.019	0.0098	mg/Kg	☼	07/16/17 13:30	07/17/17 15:57	1
PCB-1232	ND		0.019	0.0075	mg/Kg	☼	07/16/17 13:30	07/17/17 15:57	1
PCB-1242	ND		0.019	0.015	mg/Kg	☼	07/16/17 13:30	07/17/17 15:57	1
PCB-1248	**1.5**		0.019	0.0090	mg/Kg	☼	07/16/17 13:30	07/17/17 15:57	1
PCB-1254	**0.60**		0.019	0.0083	mg/Kg	☼	07/16/17 13:30	07/17/17 15:57	1
PCB-1260	**0.23**		0.019	0.013	mg/Kg	☼	07/16/17 13:30	07/17/17 15:57	1
PCB-1262	ND		0.019	0.014	mg/Kg	☼	07/16/17 13:30	07/17/17 15:57	1
PCB-1268	ND		0.019	0.0057	mg/Kg	☼	07/16/17 13:30	07/17/17 15:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	*92*		*23 - 150*	*07/16/17 13:30*	*07/17/17 15:57*	*1*
DCB Decachlorobiphenyl (Surr)	*98*		*23 - 150*	*07/16/17 13:30*	*07/17/17 15:57*	*1*
Tetrachloro-m-xylene (Surr)	*89*		*27 - 138*	*07/16/17 13:30*	*07/17/17 15:57*	*1*
Tetrachloro-m-xylene (Surr)	*86*		*27 - 138*	*07/16/17 13:30*	*07/17/17 15:57*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**4.4**		1.1	0.48	mg/Kg	☼	07/18/17 10:32	07/20/17 14:16	1
Barium	**42**		22	5.9	mg/Kg	☼	07/18/17 10:32	07/20/17 14:16	1
Beryllium	**0.25**	**J**	0.44	0.11	mg/Kg	☼	07/18/17 10:32	07/20/17 14:16	1
Cadmium	ND		0.55	0.12	mg/Kg	☼	07/18/17 10:32	07/20/17 14:16	1
Chromium	**7.5**		0.55	0.14	mg/Kg	☼	07/18/17 10:32	07/20/17 14:16	1
Copper	**26**		2.7	0.84	mg/Kg	☼	07/18/17 10:32	07/20/17 14:16	1
Lead	**26**		1.1	0.36	mg/Kg	☼	07/18/17 10:32	07/20/17 14:16	1
Manganese	**270**		1.6	0.44	mg/Kg	☼	07/18/17 10:32	07/20/17 14:16	1
Nickel	**13**		4.4	0.98	mg/Kg	☼	07/18/17 10:32	07/20/17 14:16	1
Selenium	ND		1.1	0.43	mg/Kg	☼	07/18/17 10:32	07/20/17 14:16	1
Silver	ND		0.55	0.18	mg/Kg	☼	07/18/17 10:32	07/20/17 14:16	1
Zinc	**47**		2.2	1.1	mg/Kg	☼	07/18/17 10:32	07/20/17 14:16	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.10**		0.037	0.0082	mg/Kg	☼	07/18/17 14:51	07/19/17 13:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**12.8**		0.1	0.1	%			07/17/17 12:16	1
Percent Solids	**87.2**		0.1	0.1	%			07/17/17 12:16	1
Cyanide, Total	**0.17**	**J**	0.56	0.17	mg/Kg	☼	07/18/17 10:56	07/18/17 15:13	1

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68219-1

Client Sample ID: TRIP BLANK 1

Lab Sample ID: 180-68219-55
Matrix: Water
Date Collected: 07/13/17 00:00
Date Received: 07/14/17 13:15

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	3.5	J	5.0	3.1	ug/L			07/19/17 16:09	1
Benzene	ND		1.0	0.18	ug/L			07/19/17 16:09	1
2-Butanone (MEK)	ND		5.0	2.6	ug/L			07/19/17 16:09	1
Carbon tetrachloride	ND		1.0	0.56	ug/L			07/19/17 16:09	1
Chlorobenzene	ND		1.0	0.15	ug/L			07/19/17 16:09	1
Chloroform	ND		1.0	0.27	ug/L			07/19/17 16:09	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			07/19/17 16:09	1
1,2-Dichlorobenzene	ND		1.0	0.23	ug/L			07/19/17 16:09	1
1,3-Dichlorobenzene	ND		1.0	0.21	ug/L			07/19/17 16:09	1
1,4-Dichlorobenzene	ND		1.0	0.24	ug/L			07/19/17 16:09	1
1,1-Dichloroethane	ND		1.0	0.34	ug/L			07/19/17 16:09	1
1,2-Dichloroethane	ND		1.0	0.24	ug/L			07/19/17 16:09	1
1,1-Dichloroethene	ND		1.0	0.32	ug/L			07/19/17 16:09	1
Ethylbenzene	ND		1.0	0.25	ug/L			07/19/17 16:09	1
Methylene Chloride	ND		1.0	0.94	ug/L			07/19/17 16:09	1
Methyl tert-butyl ether	ND		1.0	0.20	ug/L			07/19/17 16:09	1
n-Butylbenzene	ND		1.0	0.22	ug/L			07/19/17 16:09	1
N-Propylbenzene	ND		1.0	0.20	ug/L			07/19/17 16:09	1
sec-Butylbenzene	ND		1.0	0.22	ug/L			07/19/17 16:09	1
tert-Butylbenzene	ND		1.0	0.17	ug/L			07/19/17 16:09	1
Tetrachloroethene	ND		1.0	0.24	ug/L			07/19/17 16:09	1
Toluene	ND		1.0	0.16	ug/L			07/19/17 16:09	1
trans-1,2-Dichloroethene	ND		1.0	0.20	ug/L			07/19/17 16:09	1
1,1,1-Trichloroethane	ND		1.0	0.27	ug/L			07/19/17 16:09	1
Trichloroethene	ND		1.0	0.20	ug/L			07/19/17 16:09	1
1,2,4-Trimethylbenzene	ND		1.0	0.18	ug/L			07/19/17 16:09	1
1,3,5-Trimethylbenzene	ND		1.0	0.17	ug/L			07/19/17 16:09	1
Vinyl chloride	ND		1.0	0.17	ug/L			07/19/17 16:09	1
Xylenes, Total	ND		2.0	0.27	ug/L			07/19/17 16:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*72 - 120*		*07/19/17 16:09*	*1*
Dibromofluoromethane (Surr)	*89*		*77 - 127*		*07/19/17 16:09*	*1*
1,2-Dichloroethane-d4 (Surr)	*80*		*72 - 134*		*07/19/17 16:09*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*07/19/17 16:09*	*1*

Client Sample ID: TRIP BLANK 2

Lab Sample ID: 180-68219-56
Matrix: Water
Date Collected: 07/13/17 00:00
Date Received: 07/14/17 13:15

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	3.9	J	5.0	3.1	ug/L			07/19/17 16:33	1
Benzene	ND		1.0	0.18	ug/L			07/19/17 16:33	1
2-Butanone (MEK)	ND		5.0	2.6	ug/L			07/19/17 16:33	1
Carbon tetrachloride	ND		1.0	0.56	ug/L			07/19/17 16:33	1
Chlorobenzene	ND		1.0	0.15	ug/L			07/19/17 16:33	1
Chloroform	ND		1.0	0.27	ug/L			07/19/17 16:33	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			07/19/17 16:33	1
1,2-Dichlorobenzene	ND		1.0	0.23	ug/L			07/19/17 16:33	1

Client Sample ID: TRIP BLANK 2

Lab Sample ID: 180-68219-56

Date Collected: 07/13/17 00:00

Matrix: Water

Date Received: 07/14/17 13:15

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		1.0	0.21	ug/L			07/19/17 16:33	1
1,4-Dichlorobenzene	ND		1.0	0.24	ug/L			07/19/17 16:33	1
1,1-Dichloroethane	ND		1.0	0.34	ug/L			07/19/17 16:33	1
1,2-Dichloroethane	ND		1.0	0.24	ug/L			07/19/17 16:33	1
1,1-Dichloroethene	ND		1.0	0.32	ug/L			07/19/17 16:33	1
Ethylbenzene	ND		1.0	0.25	ug/L			07/19/17 16:33	1
Methylene Chloride	ND		1.0	0.94	ug/L			07/19/17 16:33	1
Methyl tert-butyl ether	ND		1.0	0.20	ug/L			07/19/17 16:33	1
n-Butylbenzene	ND		1.0	0.22	ug/L			07/19/17 16:33	1
N-Propylbenzene	ND		1.0	0.20	ug/L			07/19/17 16:33	1
sec-Butylbenzene	ND		1.0	0.22	ug/L			07/19/17 16:33	1
tert-Butylbenzene	ND		1.0	0.17	ug/L			07/19/17 16:33	1
Tetrachloroethene	ND		1.0	0.24	ug/L			07/19/17 16:33	1
Toluene	ND		1.0	0.16	ug/L			07/19/17 16:33	1
trans-1,2-Dichloroethene	ND		1.0	0.20	ug/L			07/19/17 16:33	1
1,1,1-Trichloroethane	ND		1.0	0.27	ug/L			07/19/17 16:33	1
Trichloroethene	ND		1.0	0.20	ug/L			07/19/17 16:33	1
1,2,4-Trimethylbenzene	ND		1.0	0.18	ug/L			07/19/17 16:33	1
1,3,5-Trimethylbenzene	ND		1.0	0.17	ug/L			07/19/17 16:33	1
Vinyl chloride	ND		1.0	0.17	ug/L			07/19/17 16:33	1
Xylenes, Total	ND		2.0	0.27	ug/L			07/19/17 16:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*72 - 120*		*07/19/17 16:33*	*1*
Dibromofluoromethane (Surr)	*90*		*77 - 127*		*07/19/17 16:33*	*1*
1,2-Dichloroethane-d4 (Surr)	*78*		*72 - 134*		*07/19/17 16:33*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*07/19/17 16:33*	*1*

Client Sample ID: TRIP BLANK 3

Lab Sample ID: 180-68219-57

Date Collected: 07/13/17 00:00

Matrix: Water

Date Received: 07/14/17 13:15

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**3.2**	**J**	5.0	3.1	ug/L			07/19/17 16:57	1
Benzene	ND		1.0	0.18	ug/L			07/19/17 16:57	1
2-Butanone (MEK)	ND		5.0	2.6	ug/L			07/19/17 16:57	1
Carbon tetrachloride	ND		1.0	0.56	ug/L			07/19/17 16:57	1
Chlorobenzene	ND		1.0	0.15	ug/L			07/19/17 16:57	1
Chloroform	ND		1.0	0.27	ug/L			07/19/17 16:57	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			07/19/17 16:57	1
1,2-Dichlorobenzene	ND		1.0	0.23	ug/L			07/19/17 16:57	1
1,3-Dichlorobenzene	ND		1.0	0.21	ug/L			07/19/17 16:57	1
1,4-Dichlorobenzene	ND		1.0	0.24	ug/L			07/19/17 16:57	1
1,1-Dichloroethane	ND		1.0	0.34	ug/L			07/19/17 16:57	1
1,2-Dichloroethane	ND		1.0	0.24	ug/L			07/19/17 16:57	1
1,1-Dichloroethene	ND		1.0	0.32	ug/L			07/19/17 16:57	1
Ethylbenzene	ND		1.0	0.25	ug/L			07/19/17 16:57	1
Methylene Chloride	ND		1.0	0.94	ug/L			07/19/17 16:57	1
Methyl tert-butyl ether	ND		1.0	0.20	ug/L			07/19/17 16:57	1

Client Sample ID: TRIP BLANK 3

Lab Sample ID: 180-68219-57
Date Collected: 07/13/17 00:00
Matrix: Water
Date Received: 07/14/17 13:15

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Butylbenzene	ND		1.0	0.22	ug/L			07/19/17 16:57	1
N-Propylbenzene	ND		1.0	0.20	ug/L			07/19/17 16:57	1
sec-Butylbenzene	ND		1.0	0.22	ug/L			07/19/17 16:57	1
tert-Butylbenzene	ND		1.0	0.17	ug/L			07/19/17 16:57	1
Tetrachloroethene	ND		1.0	0.24	ug/L			07/19/17 16:57	1
Toluene	ND		1.0	0.16	ug/L			07/19/17 16:57	1
trans-1,2-Dichloroethene	ND		1.0	0.20	ug/L			07/19/17 16:57	1
1,1,1-Trichloroethane	ND		1.0	0.27	ug/L			07/19/17 16:57	1
Trichloroethene	ND		1.0	0.20	ug/L			07/19/17 16:57	1
1,2,4-Trimethylbenzene	ND		1.0	0.18	ug/L			07/19/17 16:57	1
1,3,5-Trimethylbenzene	ND		1.0	0.17	ug/L			07/19/17 16:57	1
Vinyl chloride	ND		1.0	0.17	ug/L			07/19/17 16:57	1
Xylenes, Total	ND		2.0	0.27	ug/L			07/19/17 16:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*72 - 120*		*07/19/17 16:57*	*1*
Dibromofluoromethane (Surr)	*91*		*77 - 127*		*07/19/17 16:57*	*1*
1,2-Dichloroethane-d4 (Surr)	*78*		*72 - 134*		*07/19/17 16:57*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*07/19/17 16:57*	*1*

Client Sample ID: TRIP BLANK 4

Lab Sample ID: 180-68219-58
Date Collected: 07/13/17 00:00
Matrix: Water
Date Received: 07/14/17 13:15

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**4.0**	**J**	5.0	3.1	ug/L			07/19/17 17:22	1
Benzene	ND		1.0	0.18	ug/L			07/19/17 17:22	1
2-Butanone (MEK)	ND		5.0	2.6	ug/L			07/19/17 17:22	1
Carbon tetrachloride	ND		1.0	0.56	ug/L			07/19/17 17:22	1
Chlorobenzene	ND		1.0	0.15	ug/L			07/19/17 17:22	1
Chloroform	ND		1.0	0.27	ug/L			07/19/17 17:22	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			07/19/17 17:22	1
1,2-Dichlorobenzene	ND		1.0	0.23	ug/L			07/19/17 17:22	1
1,3-Dichlorobenzene	ND		1.0	0.21	ug/L			07/19/17 17:22	1
1,4-Dichlorobenzene	ND		1.0	0.24	ug/L			07/19/17 17:22	1
1,1-Dichloroethane	ND		1.0	0.34	ug/L			07/19/17 17:22	1
1,2-Dichloroethane	ND		1.0	0.24	ug/L			07/19/17 17:22	1
1,1-Dichloroethene	ND		1.0	0.32	ug/L			07/19/17 17:22	1
Ethylbenzene	ND		1.0	0.25	ug/L			07/19/17 17:22	1
Methylene Chloride	ND		1.0	0.94	ug/L			07/19/17 17:22	1
Methyl tert-butyl ether	ND		1.0	0.20	ug/L			07/19/17 17:22	1
n-Butylbenzene	ND		1.0	0.22	ug/L			07/19/17 17:22	1
N-Propylbenzene	ND		1.0	0.20	ug/L			07/19/17 17:22	1
sec-Butylbenzene	ND		1.0	0.22	ug/L			07/19/17 17:22	1
tert-Butylbenzene	ND		1.0	0.17	ug/L			07/19/17 17:22	1
Tetrachloroethene	ND		1.0	0.24	ug/L			07/19/17 17:22	1
Toluene	ND		1.0	0.16	ug/L			07/19/17 17:22	1
trans-1,2-Dichloroethene	ND		1.0	0.20	ug/L			07/19/17 17:22	1
1,1,1-Trichloroethane	ND		1.0	0.27	ug/L			07/19/17 17:22	1

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68219-1

Client Sample ID: TRIP BLANK 4
Date Collected: 07/13/17 00:00
Date Received: 07/14/17 13:15

Lab Sample ID: 180-68219-58
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	ND		1.0	0.20	ug/L			07/19/17 17:22	1
1,2,4-Trimethylbenzene	ND		1.0	0.18	ug/L			07/19/17 17:22	1
1,3,5-Trimethylbenzene	ND		1.0	0.17	ug/L			07/19/17 17:22	1
Vinyl chloride	ND		1.0	0.17	ug/L			07/19/17 17:22	1
Xylenes, Total	ND		2.0	0.27	ug/L			07/19/17 17:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*72 - 120*		*07/19/17 17:22*	*1*
Dibromofluoromethane (Surr)	*92*		*77 - 127*		*07/19/17 17:22*	*1*
1,2-Dichloroethane-d4 (Surr)	*80*		*72 - 134*		*07/19/17 17:22*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*07/19/17 17:22*	*1*

Method: 8260C - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 180-217455/5
Matrix: Water
Analysis Batch: 217455

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		5.0	3.1	ug/L			07/19/17 12:04	1
Benzene	ND		1.0	0.18	ug/L			07/19/17 12:04	1
2-Butanone (MEK)	ND		5.0	2.6	ug/L			07/19/17 12:04	1
Carbon tetrachloride	ND		1.0	0.56	ug/L			07/19/17 12:04	1
Chlorobenzene	ND		1.0	0.15	ug/L			07/19/17 12:04	1
Chloroform	ND		1.0	0.27	ug/L			07/19/17 12:04	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			07/19/17 12:04	1
1,2-Dichlorobenzene	ND		1.0	0.23	ug/L			07/19/17 12:04	1
1,3-Dichlorobenzene	ND		1.0	0.21	ug/L			07/19/17 12:04	1
1,4-Dichlorobenzene	ND		1.0	0.24	ug/L			07/19/17 12:04	1
1,1-Dichloroethane	ND		1.0	0.34	ug/L			07/19/17 12:04	1
1,2-Dichloroethane	ND		1.0	0.24	ug/L			07/19/17 12:04	1
1,1-Dichloroethene	ND		1.0	0.32	ug/L			07/19/17 12:04	1
Ethylbenzene	ND		1.0	0.25	ug/L			07/19/17 12:04	1
Methylene Chloride	ND		1.0	0.94	ug/L			07/19/17 12:04	1
Methyl tert-butyl ether	ND		1.0	0.20	ug/L			07/19/17 12:04	1
n-Butylbenzene	ND		1.0	0.22	ug/L			07/19/17 12:04	1
N-Propylbenzene	ND		1.0	0.20	ug/L			07/19/17 12:04	1
sec-Butylbenzene	ND		1.0	0.22	ug/L			07/19/17 12:04	1
tert-Butylbenzene	ND		1.0	0.17	ug/L			07/19/17 12:04	1
Tetrachloroethene	ND		1.0	0.24	ug/L			07/19/17 12:04	1
Toluene	ND		1.0	0.16	ug/L			07/19/17 12:04	1
trans-1,2-Dichloroethene	ND		1.0	0.20	ug/L			07/19/17 12:04	1
1,1,1-Trichloroethane	ND		1.0	0.27	ug/L			07/19/17 12:04	1
Trichloroethene	ND		1.0	0.20	ug/L			07/19/17 12:04	1
1,2,4-Trimethylbenzene	ND		1.0	0.18	ug/L			07/19/17 12:04	1
1,3,5-Trimethylbenzene	ND		1.0	0.17	ug/L			07/19/17 12:04	1
Vinyl chloride	ND		1.0	0.17	ug/L			07/19/17 12:04	1
Xylenes, Total	ND		2.0	0.27	ug/L			07/19/17 12:04	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*72 - 120*		*07/19/17 12:04*	*1*
Dibromofluoromethane (Surr)	*93*		*77 - 127*		*07/19/17 12:04*	*1*
1,2-Dichloroethane-d4 (Surr)	*79*		*72 - 134*		*07/19/17 12:04*	*1*
Toluene-d8 (Surr)	*93*		*80 - 120*		*07/19/17 12:04*	*1*

Lab Sample ID: LCS 180-217455/3
Matrix: Water
Analysis Batch: 217455

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	20.0	16.4		ug/L		82	10 - 150
Benzene	10.0	9.04		ug/L		90	80 - 121
2-Butanone (MEK)	20.0	16.0		ug/L		80	41 - 150
Carbon tetrachloride	10.0	11.5		ug/L		115	59 - 145
Chlorobenzene	10.0	8.62		ug/L		86	80 - 120
Chloroform	10.0	9.01		ug/L		90	78 - 122
cis-1,2-Dichloroethene	10.0	9.30		ug/L		93	80 - 120

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 180-217455/3
Matrix: Water
Analysis Batch: 217455

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichlorobenzene	10.0	8.18		ug/L		82	80 - 120
1,3-Dichlorobenzene	10.0	8.10		ug/L		81	80 - 120
1,4-Dichlorobenzene	10.0	8.17		ug/L		82	80 - 120
1,1-Dichloroethane	10.0	8.66		ug/L		87	76 - 126
1,2-Dichloroethane	10.0	7.52		ug/L		75	72 - 126
1,1-Dichloroethene	10.0	8.93		ug/L		89	71 - 122
Ethylbenzene	10.0	8.85		ug/L		89	80 - 123
Methylene Chloride	10.0	8.57		ug/L		86	71 - 129
Methyl tert-butyl ether	10.0	8.42		ug/L		84	68 - 124
n-Butylbenzene	10.0	8.83		ug/L		88	75 - 120
N-Propylbenzene	10.0	7.80		ug/L		78	78 - 121
sec-Butylbenzene	10.0	8.56		ug/L		86	80 - 121
tert-Butylbenzene	10.0	8.09		ug/L		81	79 - 120
Tetrachloroethene	10.0	8.91		ug/L		89	80 - 122
Toluene	10.0	9.03		ug/L		90	80 - 125
trans-1,2-Dichloroethene	10.0	8.96		ug/L		90	80 - 121
1,1,1-Trichloroethane	10.0	10.3		ug/L		103	57 - 128
Trichloroethene	10.0	8.66		ug/L		87	79 - 120
1,2,4-Trimethylbenzene	10.0	8.18		ug/L		82	80 - 120
1,3,5-Trimethylbenzene	10.0	8.35		ug/L		84	80 - 122
Vinyl chloride	10.0	10.7		ug/L		107	61 - 138
Xylenes, Total	20.0	17.7		ug/L		88	80 - 123

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*94*		*72 - 120*
Dibromofluoromethane (Surr)	*93*		*77 - 127*
1,2-Dichloroethane-d4 (Surr)	*76*		*72 - 134*
Toluene-d8 (Surr)	*94*		*80 - 120*

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 180-217209/11
Matrix: Solid
Analysis Batch: 217209

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.020	0.0032	mg/Kg			07/17/17 10:30	1
Benzene	ND		0.0050	0.0020	mg/Kg			07/17/17 10:30	1
2-Butanone (MEK)	ND		0.0050	0.0029	mg/Kg			07/17/17 10:30	1
Carbon tetrachloride	ND		0.0050	0.0033	mg/Kg			07/17/17 10:30	1
Chlorobenzene	ND		0.0050	0.0016	mg/Kg			07/17/17 10:30	1
Chloroform	ND		0.0050	0.0021	mg/Kg			07/17/17 10:30	1
cis-1,2-Dichloroethene	ND		0.0050	0.0016	mg/Kg			07/17/17 10:30	1
1,2-Dichlorobenzene	ND		0.0050	0.0040	mg/Kg			07/17/17 10:30	1
1,3-Dichlorobenzene	ND		0.0050	0.0016	mg/Kg			07/17/17 10:30	1
1,4-Dichlorobenzene	ND		0.0050	0.0010	mg/Kg			07/17/17 10:30	1
1,1-Dichloroethane	ND		0.0050	0.0018	mg/Kg			07/17/17 10:30	1
1,2-Dichloroethane	ND		0.0050	0.0015	mg/Kg			07/17/17 10:30	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 180-217209/11
Matrix: Solid
Analysis Batch: 217209

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		0.0050	0.0029	mg/Kg			07/17/17 10:30	1
Ethylbenzene	ND		0.0050	0.0022	mg/Kg			07/17/17 10:30	1
Methylene Chloride	ND		0.0050	0.0024	mg/Kg			07/17/17 10:30	1
Methyl tert-butyl ether	ND		0.0050	0.0037	mg/Kg			07/17/17 10:30	1
n-Butylbenzene	ND		0.0050	0.0038	mg/Kg			07/17/17 10:30	1
N-Propylbenzene	ND		0.0050	0.0021	mg/Kg			07/17/17 10:30	1
sec-Butylbenzene	ND		0.0050	0.0024	mg/Kg			07/17/17 10:30	1
tert-Butylbenzene	ND		0.0050	0.0018	mg/Kg			07/17/17 10:30	1
Tetrachloroethene	ND		0.0050	0.0020	mg/Kg			07/17/17 10:30	1
Toluene	ND		0.0050	0.0017	mg/Kg			07/17/17 10:30	1
trans-1,2-Dichloroethene	ND		0.0050	0.0025	mg/Kg			07/17/17 10:30	1
1,1,1-Trichloroethane	ND		0.0050	0.0025	mg/Kg			07/17/17 10:30	1
Trichloroethene	ND		0.0050	0.0015	mg/Kg			07/17/17 10:30	1
1,2,4-Trimethylbenzene	ND		0.0050	0.0013	mg/Kg			07/17/17 10:30	1
1,3,5-Trimethylbenzene	ND		0.0050	0.0017	mg/Kg			07/17/17 10:30	1
Vinyl chloride	ND		0.0050	0.0037	mg/Kg			07/17/17 10:30	1
Xylenes, Total	ND		0.010	0.0043	mg/Kg			07/17/17 10:30	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*63 - 120*		*07/17/17 10:30*	*1*
Dibromofluoromethane (Surr)	*91*		*68 - 121*		*07/17/17 10:30*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*52 - 124*		*07/17/17 10:30*	*1*
Toluene-d8 (Surr)	*106*		*72 - 127*		*07/17/17 10:30*	*1*

Lab Sample ID: LCS 180-217209/4
Matrix: Solid
Analysis Batch: 217209

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0400	0.0410		mg/Kg		103	20 - 150
Benzene	0.0400	0.0372		mg/Kg		93	77 - 120
2-Butanone (MEK)	0.0400	0.0368		mg/Kg		92	35 - 149
Carbon tetrachloride	0.0400	0.0320		mg/Kg		80	69 - 122
Chlorobenzene	0.0400	0.0361		mg/Kg		90	79 - 120
Chloroform	0.0400	0.0353		mg/Kg		88	72 - 120
cis-1,2-Dichloroethene	0.0400	0.0351		mg/Kg		88	80 - 118
1,2-Dichlorobenzene	0.0400	0.0369		mg/Kg		92	71 - 124
1,3-Dichlorobenzene	0.0400	0.0365		mg/Kg		91	75 - 118
1,4-Dichlorobenzene	0.0400	0.0364		mg/Kg		91	77 - 116
1,1-Dichloroethane	0.0400	0.0384		mg/Kg		96	66 - 124
1,2-Dichloroethane	0.0400	0.0348		mg/Kg		87	61 - 127
1,1-Dichloroethene	0.0400	0.0355		mg/Kg		89	59 - 129
Ethylbenzene	0.0400	0.0356		mg/Kg		89	78 - 125
Methylene Chloride	0.0400	0.0330		mg/Kg		82	58 - 127
Methyl tert-butyl ether	0.0400	0.0339		mg/Kg		85	48 - 132
n-Butylbenzene	0.0400	0.0398		mg/Kg		100	59 - 145
N-Propylbenzene	0.0400	0.0360		mg/Kg		90	80 - 120
sec-Butylbenzene	0.0400	0.0387		mg/Kg		97	70 - 130

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 180-217209/4
Matrix: Solid
Analysis Batch: 217209

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
tert-Butylbenzene	0.0400	0.0375		mg/Kg		94	74 - 133
Tetrachloroethene	0.0400	0.0369		mg/Kg		92	78 - 129
Toluene	0.0400	0.0392		mg/Kg		98	78 - 124
trans-1,2-Dichloroethene	0.0400	0.0360		mg/Kg		90	77 - 121
1,1,1-Trichloroethane	0.0400	0.0347		mg/Kg		87	67 - 126
Trichloroethene	0.0400	0.0350		mg/Kg		87	76 - 119
1,2,4-Trimethylbenzene	0.0400	0.0380		mg/Kg		95	80 - 121
1,3,5-Trimethylbenzene	0.0400	0.0380		mg/Kg		95	68 - 133
Vinyl chloride	0.0400	0.0455		mg/Kg		114	63 - 124
Xylenes, Total	0.0800	0.0729		mg/Kg		91	83 - 126

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*63 - 120*
Dibromofluoromethane (Surr)	*93*		*68 - 121*
1,2-Dichloroethane-d4 (Surr)	*93*		*52 - 124*
Toluene-d8 (Surr)	*105*		*72 - 127*

Lab Sample ID: 180-68219-38 MS
Matrix: Solid
Analysis Batch: 217209

Client Sample ID: W8, S3, B 71317
Prep Type: Total/NA
Prep Batch: 217220

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	ND		0.0346	0.0403		mg/Kg	☼	116	20 - 150
Benzene	ND	F2	0.0346	0.0347		mg/Kg	☼	100	77 - 120
2-Butanone (MEK)	ND		0.0346	0.0374		mg/Kg	☼	108	35 - 149
Carbon tetrachloride	ND		0.0346	0.0293		mg/Kg	☼	85	69 - 122
Chlorobenzene	ND	F2	0.0346	0.0342		mg/Kg	☼	99	79 - 120
Chloroform	ND		0.0346	0.0330		mg/Kg	☼	95	72 - 120
cis-1,2-Dichloroethene	ND		0.0346	0.0324		mg/Kg	☼	94	80 - 118
1,2-Dichlorobenzene	ND		0.0346	0.0346		mg/Kg	☼	100	71 - 124
1,3-Dichlorobenzene	ND		0.0346	0.0338		mg/Kg	☼	98	75 - 118
1,4-Dichlorobenzene	ND	F2	0.0346	0.0339		mg/Kg	☼	98	77 - 116
1,1-Dichloroethane	ND		0.0346	0.0363		mg/Kg	☼	105	66 - 124
1,2-Dichloroethane	ND		0.0346	0.0337		mg/Kg	☼	97	61 - 127
1,1-Dichloroethene	ND		0.0346	0.0330		mg/Kg	☼	95	59 - 129
Ethylbenzene	ND	F2	0.0346	0.0332		mg/Kg	☼	96	78 - 125
Methylene Chloride	0.0021	J	0.0346	0.0314		mg/Kg	☼	91	58 - 127
Methyl tert-butyl ether	ND		0.0346	0.0333		mg/Kg	☼	96	48 - 132
n-Butylbenzene	ND		0.0346	0.0354		mg/Kg	☼	102	59 - 145
N-Propylbenzene	ND	F2	0.0346	0.0331		mg/Kg	☼	96	80 - 120
sec-Butylbenzene	ND		0.0346	0.0349		mg/Kg	☼	101	70 - 130
tert-Butylbenzene	ND		0.0346	0.0342		mg/Kg	☼	99	74 - 133
Tetrachloroethene	ND	F2	0.0346	0.0340		mg/Kg	☼	98	78 - 129
Toluene	ND	F2	0.0346	0.0362		mg/Kg	☼	105	78 - 124
trans-1,2-Dichloroethene	ND		0.0346	0.0335		mg/Kg	☼	97	77 - 121
1,1,1-Trichloroethane	ND		0.0346	0.0327		mg/Kg	☼	94	67 - 126
Trichloroethene	ND		0.0346	0.0328		mg/Kg	☼	95	76 - 119
1,2,4-Trimethylbenzene	ND	F2	0.0346	0.0349		mg/Kg	☼	101	80 - 121

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 180-68219-38 MS
Matrix: Solid
Analysis Batch: 217209

Client Sample ID: W8, S3, B 71317
Prep Type: Total/NA
Prep Batch: 217220

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,3,5-Trimethylbenzene	ND		0.0346	0.0348		mg/Kg	☼	101	68 - 133
Vinyl chloride	ND		0.0346	0.0424		mg/Kg	☼	122	63 - 124
Xylenes, Total	ND	F2	0.0692	0.0671		mg/Kg	☼	97	83 - 126

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*63 - 120*
Dibromofluoromethane (Surr)	*92*		*68 - 121*
1,2-Dichloroethane-d4 (Surr)	*94*		*52 - 124*
Toluene-d8 (Surr)	*102*		*72 - 127*

Lab Sample ID: 180-68219-38 MSD
Matrix: Solid
Analysis Batch: 217209

Client Sample ID: W8, S3, B 71317
Prep Type: Total/NA
Prep Batch: 217220

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	ND		0.0303	0.0353		mg/Kg	☼	117	20 - 150	13	40
Benzene	ND	F2	0.0303	0.0280	F2	mg/Kg	☼	92	77 - 120	21	20
2-Butanone (MEK)	ND		0.0303	0.0305		mg/Kg	☼	101	35 - 149	20	36
Carbon tetrachloride	ND		0.0303	0.0243		mg/Kg	☼	80	69 - 122	19	22
Chlorobenzene	ND	F2	0.0303	0.0272	F2	mg/Kg	☼	90	79 - 120	23	20
Chloroform	ND		0.0303	0.0266		mg/Kg	☼	88	72 - 120	22	25
cis-1,2-Dichloroethene	ND		0.0303	0.0267		mg/Kg	☼	88	80 - 118	20	20
1,2-Dichlorobenzene	ND		0.0303	0.0281		mg/Kg	☼	93	71 - 124	21	22
1,3-Dichlorobenzene	ND		0.0303	0.0276		mg/Kg	☼	91	75 - 118	20	20
1,4-Dichlorobenzene	ND	F2	0.0303	0.0275	F2	mg/Kg	☼	91	77 - 116	21	20
1,1-Dichloroethane	ND		0.0303	0.0295		mg/Kg	☼	97	66 - 124	20	23
1,2-Dichloroethane	ND		0.0303	0.0275		mg/Kg	☼	91	61 - 127	20	23
1,1-Dichloroethene	ND		0.0303	0.0270		mg/Kg	☼	89	59 - 129	20	25
Ethylbenzene	ND	F2	0.0303	0.0266	F2	mg/Kg	☼	88	78 - 125	22	21
Methylene Chloride	0.0021	J	0.0303	0.0260		mg/Kg	☼	86	58 - 127	19	28
Methyl tert-butyl ether	ND		0.0303	0.0274		mg/Kg	☼	90	48 - 132	19	36
n-Butylbenzene	ND		0.0303	0.0295		mg/Kg	☼	97	59 - 145	18	24
N-Propylbenzene	ND	F2	0.0303	0.0269	F2	mg/Kg	☼	89	80 - 120	21	20
sec-Butylbenzene	ND		0.0303	0.0288		mg/Kg	☼	95	70 - 130	19	21
tert-Butylbenzene	ND		0.0303	0.0279		mg/Kg	☼	92	74 - 133	20	22
Tetrachloroethene	ND	F2	0.0303	0.0272	F2	mg/Kg	☼	90	78 - 129	22	20
Toluene	ND	F2	0.0303	0.0286	F2	mg/Kg	☼	94	78 - 124	23	21
trans-1,2-Dichloroethene	ND		0.0303	0.0275		mg/Kg	☼	91	77 - 121	20	20
1,1,1-Trichloroethane	ND		0.0303	0.0273		mg/Kg	☼	90	67 - 126	18	31
Trichloroethene	ND		0.0303	0.0268		mg/Kg	☼	88	76 - 119	20	21
1,2,4-Trimethylbenzene	ND	F2	0.0303	0.0284	F2	mg/Kg	☼	94	80 - 121	21	20
1,3,5-Trimethylbenzene	ND		0.0303	0.0283		mg/Kg	☼	93	68 - 133	21	21
Vinyl chloride	ND		0.0303	0.0347		mg/Kg	☼	114	63 - 124	20	27
Xylenes, Total	ND	F2	0.0607	0.0535	F2	mg/Kg	☼	88	83 - 126	23	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*63 - 120*

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 180-68219-38 MSD
Matrix: Solid
Analysis Batch: 217209

Client Sample ID: W8, S3, B 71317
Prep Type: Total/NA
Prep Batch: 217220

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Dibromofluoromethane (Surr)	*96*		*68 - 121*
1,2-Dichloroethane-d4 (Surr)	*98*		*52 - 124*
Toluene-d8 (Surr)	*102*		*72 - 127*

Lab Sample ID: MB 180-217322/9
Matrix: Solid
Analysis Batch: 217322

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.020	0.0032	mg/Kg			07/18/17 08:28	1
Benzene	ND		0.0050	0.0020	mg/Kg			07/18/17 08:28	1
2-Butanone (MEK)	ND		0.0050	0.0029	mg/Kg			07/18/17 08:28	1
Carbon tetrachloride	ND		0.0050	0.0033	mg/Kg			07/18/17 08:28	1
Chlorobenzene	ND		0.0050	0.0016	mg/Kg			07/18/17 08:28	1
Chloroform	ND		0.0050	0.0021	mg/Kg			07/18/17 08:28	1
cis-1,2-Dichloroethene	ND		0.0050	0.0016	mg/Kg			07/18/17 08:28	1
1,2-Dichlorobenzene	ND		0.0050	0.0040	mg/Kg			07/18/17 08:28	1
1,3-Dichlorobenzene	ND		0.0050	0.0016	mg/Kg			07/18/17 08:28	1
1,4-Dichlorobenzene	ND		0.0050	0.0010	mg/Kg			07/18/17 08:28	1
1,1-Dichloroethane	ND		0.0050	0.0018	mg/Kg			07/18/17 08:28	1
1,2-Dichloroethane	ND		0.0050	0.0015	mg/Kg			07/18/17 08:28	1
1,1-Dichloroethene	ND		0.0050	0.0029	mg/Kg			07/18/17 08:28	1
Ethylbenzene	ND		0.0050	0.0022	mg/Kg			07/18/17 08:28	1
Methylene Chloride	ND		0.0050	0.0024	mg/Kg			07/18/17 08:28	1
Methyl tert-butyl ether	ND		0.0050	0.0037	mg/Kg			07/18/17 08:28	1
n-Butylbenzene	ND		0.0050	0.0038	mg/Kg			07/18/17 08:28	1
N-Propylbenzene	ND		0.0050	0.0021	mg/Kg			07/18/17 08:28	1
sec-Butylbenzene	ND		0.0050	0.0024	mg/Kg			07/18/17 08:28	1
tert-Butylbenzene	ND		0.0050	0.0018	mg/Kg			07/18/17 08:28	1
Tetrachloroethene	ND		0.0050	0.0020	mg/Kg			07/18/17 08:28	1
Toluene	ND		0.0050	0.0017	mg/Kg			07/18/17 08:28	1
trans-1,2-Dichloroethene	ND		0.0050	0.0025	mg/Kg			07/18/17 08:28	1
1,1,1-Trichloroethane	ND		0.0050	0.0025	mg/Kg			07/18/17 08:28	1
Trichloroethene	ND		0.0050	0.0015	mg/Kg			07/18/17 08:28	1
1,2,4-Trimethylbenzene	ND		0.0050	0.0013	mg/Kg			07/18/17 08:28	1
1,3,5-Trimethylbenzene	ND		0.0050	0.0017	mg/Kg			07/18/17 08:28	1
Vinyl chloride	ND		0.0050	0.0037	mg/Kg			07/18/17 08:28	1
Xylenes, Total	ND		0.010	0.0043	mg/Kg			07/18/17 08:28	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*95*		*63 - 120*		*07/18/17 08:28*	*1*
Dibromofluoromethane (Surr)	*90*		*68 - 121*		*07/18/17 08:28*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*52 - 124*		*07/18/17 08:28*	*1*
Toluene-d8 (Surr)	*102*		*72 - 127*		*07/18/17 08:28*	*1*

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 180-217322/4
Matrix: Solid
Analysis Batch: 217322

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0400	0.0444		mg/Kg		111	20 - 150
Benzene	0.0400	0.0397		mg/Kg		99	77 - 120
2-Butanone (MEK)	0.0400	0.0404		mg/Kg		101	35 - 149
Carbon tetrachloride	0.0400	0.0349		mg/Kg		87	69 - 122
Chlorobenzene	0.0400	0.0383		mg/Kg		96	79 - 120
Chloroform	0.0400	0.0376		mg/Kg		94	72 - 120
cis-1,2-Dichloroethene	0.0400	0.0377		mg/Kg		94	80 - 118
1,2-Dichlorobenzene	0.0400	0.0394		mg/Kg		98	71 - 124
1,3-Dichlorobenzene	0.0400	0.0401		mg/Kg		100	75 - 118
1,4-Dichlorobenzene	0.0400	0.0395		mg/Kg		99	77 - 116
1,1-Dichloroethane	0.0400	0.0409		mg/Kg		102	66 - 124
1,2-Dichloroethane	0.0400	0.0365		mg/Kg		91	61 - 127
1,1-Dichloroethene	0.0400	0.0377		mg/Kg		94	59 - 129
Ethylbenzene	0.0400	0.0388		mg/Kg		97	78 - 125
Methylene Chloride	0.0400	0.0352		mg/Kg		88	58 - 127
Methyl tert-butyl ether	0.0400	0.0371		mg/Kg		93	48 - 132
n-Butylbenzene	0.0400	0.0426		mg/Kg		107	59 - 145
N-Propylbenzene	0.0400	0.0386		mg/Kg		97	80 - 120
sec-Butylbenzene	0.0400	0.0421		mg/Kg		105	70 - 130
tert-Butylbenzene	0.0400	0.0403		mg/Kg		101	74 - 133
Tetrachloroethene	0.0400	0.0405		mg/Kg		101	78 - 129
Toluene	0.0400	0.0413		mg/Kg		103	78 - 124
trans-1,2-Dichloroethene	0.0400	0.0385		mg/Kg		96	77 - 121
1,1,1-Trichloroethane	0.0400	0.0393		mg/Kg		98	67 - 126
Trichloroethene	0.0400	0.0380		mg/Kg		95	76 - 119
1,2,4-Trimethylbenzene	0.0400	0.0410		mg/Kg		102	80 - 121
1,3,5-Trimethylbenzene	0.0400	0.0411		mg/Kg		103	68 - 133
Vinyl chloride	0.0400	0.0477		mg/Kg		119	63 - 124
Xylenes, Total	0.0800	0.0777		mg/Kg		97	83 - 126

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*63 - 120*
Dibromofluoromethane (Surr)	*96*		*68 - 121*
1,2-Dichloroethane-d4 (Surr)	*95*		*52 - 124*
Toluene-d8 (Surr)	*106*		*72 - 127*

Lab Sample ID: MB 180-217471/9
Matrix: Solid
Analysis Batch: 217471

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.020	0.0032	mg/Kg			07/19/17 08:29	1
Benzene	ND		0.0050	0.0020	mg/Kg			07/19/17 08:29	1
2-Butanone (MEK)	ND		0.0050	0.0029	mg/Kg			07/19/17 08:29	1
Carbon tetrachloride	ND		0.0050	0.0033	mg/Kg			07/19/17 08:29	1
Chlorobenzene	ND		0.0050	0.0016	mg/Kg			07/19/17 08:29	1
Chloroform	ND		0.0050	0.0021	mg/Kg			07/19/17 08:29	1
cis-1,2-Dichloroethene	ND		0.0050	0.0016	mg/Kg			07/19/17 08:29	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 180-217471/9
Matrix: Solid
Analysis Batch: 217471

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		0.0050	0.0040	mg/Kg			07/19/17 08:29	1
1,3-Dichlorobenzene	ND		0.0050	0.0016	mg/Kg			07/19/17 08:29	1
1,4-Dichlorobenzene	ND		0.0050	0.0010	mg/Kg			07/19/17 08:29	1
1,1-Dichloroethane	ND		0.0050	0.0018	mg/Kg			07/19/17 08:29	1
1,2-Dichloroethane	ND		0.0050	0.0015	mg/Kg			07/19/17 08:29	1
1,1-Dichloroethene	ND		0.0050	0.0029	mg/Kg			07/19/17 08:29	1
Ethylbenzene	ND		0.0050	0.0022	mg/Kg			07/19/17 08:29	1
Methylene Chloride	ND		0.0050	0.0024	mg/Kg			07/19/17 08:29	1
Methyl tert-butyl ether	ND		0.0050	0.0037	mg/Kg			07/19/17 08:29	1
n-Butylbenzene	ND		0.0050	0.0038	mg/Kg			07/19/17 08:29	1
N-Propylbenzene	ND		0.0050	0.0021	mg/Kg			07/19/17 08:29	1
sec-Butylbenzene	ND		0.0050	0.0024	mg/Kg			07/19/17 08:29	1
tert-Butylbenzene	ND		0.0050	0.0018	mg/Kg			07/19/17 08:29	1
Tetrachloroethene	ND		0.0050	0.0020	mg/Kg			07/19/17 08:29	1
Toluene	ND		0.0050	0.0017	mg/Kg			07/19/17 08:29	1
trans-1,2-Dichloroethene	ND		0.0050	0.0025	mg/Kg			07/19/17 08:29	1
1,1,1-Trichloroethane	ND		0.0050	0.0025	mg/Kg			07/19/17 08:29	1
Trichloroethene	ND		0.0050	0.0015	mg/Kg			07/19/17 08:29	1
1,2,4-Trimethylbenzene	ND		0.0050	0.0013	mg/Kg			07/19/17 08:29	1
1,3,5-Trimethylbenzene	ND		0.0050	0.0017	mg/Kg			07/19/17 08:29	1
Vinyl chloride	ND		0.0050	0.0037	mg/Kg			07/19/17 08:29	1
Xylenes, Total	ND		0.010	0.0043	mg/Kg			07/19/17 08:29	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*63 - 120*		*07/19/17 08:29*	*1*
Dibromofluoromethane (Surr)	*93*		*68 - 121*		*07/19/17 08:29*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*52 - 124*		*07/19/17 08:29*	*1*
Toluene-d8 (Surr)	*106*		*72 - 127*		*07/19/17 08:29*	*1*

Lab Sample ID: LCS 180-217471/4
Matrix: Solid
Analysis Batch: 217471

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0400	0.0429		mg/Kg		107	20 - 150
Benzene	0.0400	0.0395		mg/Kg		99	77 - 120
2-Butanone (MEK)	0.0400	0.0387		mg/Kg		97	35 - 149
Carbon tetrachloride	0.0400	0.0344		mg/Kg		86	69 - 122
Chlorobenzene	0.0400	0.0380		mg/Kg		95	79 - 120
Chloroform	0.0400	0.0373		mg/Kg		93	72 - 120
cis-1,2-Dichloroethene	0.0400	0.0382		mg/Kg		96	80 - 118
1,2-Dichlorobenzene	0.0400	0.0390		mg/Kg		97	71 - 124
1,3-Dichlorobenzene	0.0400	0.0393		mg/Kg		98	75 - 118
1,4-Dichlorobenzene	0.0400	0.0391		mg/Kg		98	77 - 116
1,1-Dichloroethane	0.0400	0.0401		mg/Kg		100	66 - 124
1,2-Dichloroethane	0.0400	0.0357		mg/Kg		89	61 - 127
1,1-Dichloroethene	0.0400	0.0380		mg/Kg		95	59 - 129
Ethylbenzene	0.0400	0.0383		mg/Kg		96	78 - 125

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 180-217471/4
Matrix: Solid
Analysis Batch: 217471

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methylene Chloride	0.0400	0.0358		mg/Kg		89	58 - 127
Methyl tert-butyl ether	0.0400	0.0363		mg/Kg		91	48 - 132
n-Butylbenzene	0.0400	0.0403		mg/Kg		101	59 - 145
N-Propylbenzene	0.0400	0.0380		mg/Kg		95	80 - 120
sec-Butylbenzene	0.0400	0.0403		mg/Kg		101	70 - 130
tert-Butylbenzene	0.0400	0.0399		mg/Kg		100	74 - 133
Tetrachloroethene	0.0400	0.0418		mg/Kg		104	78 - 129
Toluene	0.0400	0.0409		mg/Kg		102	78 - 124
trans-1,2-Dichloroethene	0.0400	0.0389		mg/Kg		97	77 - 121
1,1,1-Trichloroethane	0.0400	0.0378		mg/Kg		94	67 - 126
Trichloroethene	0.0400	0.0382		mg/Kg		95	76 - 119
1,2,4-Trimethylbenzene	0.0400	0.0390		mg/Kg		97	80 - 121
1,3,5-Trimethylbenzene	0.0400	0.0397		mg/Kg		99	68 - 133
Vinyl chloride	0.0400	0.0459		mg/Kg		115	63 - 124
Xylenes, Total	0.0800	0.0774		mg/Kg		97	83 - 126

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*63 - 120*
Dibromofluoromethane (Surr)	*96*		*68 - 121*
1,2-Dichloroethane-d4 (Surr)	*93*		*52 - 124*
Toluene-d8 (Surr)	*103*		*72 - 127*

Lab Sample ID: 180-68219-1 MS
Matrix: Solid
Analysis Batch: 217471

Client Sample ID: W6, S1, A 071317
Prep Type: Total/NA
Prep Batch: 217488

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	ND		0.0371	0.0376		mg/Kg	☼	102	20 - 150
Benzene	ND		0.0371	0.0345		mg/Kg	☼	93	77 - 120
2-Butanone (MEK)	ND		0.0371	0.0352		mg/Kg	☼	95	35 - 149
Carbon tetrachloride	ND		0.0371	0.0298		mg/Kg	☼	81	69 - 122
Chlorobenzene	ND		0.0371	0.0332		mg/Kg	☼	90	79 - 120
Chloroform	ND		0.0371	0.0324		mg/Kg	☼	87	72 - 120
cis-1,2-Dichloroethene	ND		0.0371	0.0331		mg/Kg	☼	89	80 - 118
1,2-Dichlorobenzene	ND		0.0371	0.0342		mg/Kg	☼	92	71 - 124
1,3-Dichlorobenzene	ND		0.0371	0.0342		mg/Kg	☼	92	75 - 118
1,4-Dichlorobenzene	ND		0.0371	0.0342		mg/Kg	☼	92	77 - 116
1,1-Dichloroethane	ND		0.0371	0.0351		mg/Kg	☼	95	66 - 124
1,2-Dichloroethane	ND		0.0371	0.0313		mg/Kg	☼	85	61 - 127
1,1-Dichloroethene	ND		0.0371	0.0338		mg/Kg	☼	91	59 - 129
Ethylbenzene	ND		0.0371	0.0332		mg/Kg	☼	90	78 - 125
Methylene Chloride	ND		0.0371	0.0311		mg/Kg	☼	84	58 - 127
Methyl tert-butyl ether	ND		0.0371	0.0322		mg/Kg	☼	87	48 - 132
n-Butylbenzene	ND		0.0371	0.0354		mg/Kg	☼	96	59 - 145
N-Propylbenzene	ND		0.0371	0.0327		mg/Kg	☼	88	80 - 120
sec-Butylbenzene	ND		0.0371	0.0354		mg/Kg	☼	96	70 - 130
tert-Butylbenzene	ND		0.0371	0.0342		mg/Kg	☼	92	74 - 133
Tetrachloroethene	ND		0.0371	0.0361		mg/Kg	☼	97	78 - 129

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 180-68219-1 MS
Matrix: Solid
Analysis Batch: 217471

Client Sample ID: W6, S1, A 071317
Prep Type: Total/NA
Prep Batch: 217488

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Toluene	ND		0.0371	0.0358		mg/Kg	☼	96	78 - 124
trans-1,2-Dichloroethene	ND		0.0371	0.0340		mg/Kg	☼	92	77 - 121
1,1,1-Trichloroethane	ND		0.0371	0.0324		mg/Kg	☼	88	67 - 126
Trichloroethene	ND		0.0371	0.0336		mg/Kg	☼	91	76 - 119
1,2,4-Trimethylbenzene	ND		0.0371	0.0344		mg/Kg	☼	93	80 - 121
1,3,5-Trimethylbenzene	ND		0.0371	0.0343		mg/Kg	☼	93	68 - 133
Vinyl chloride	ND		0.0371	0.0396		mg/Kg	☼	107	63 - 124
Xylenes, Total	ND		0.0741	0.0668		mg/Kg	☼	90	83 - 126

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*63 - 120*
Dibromofluoromethane (Surr)	*98*		*68 - 121*
1,2-Dichloroethane-d4 (Surr)	*93*		*52 - 124*
Toluene-d8 (Surr)	*106*		*72 - 127*

Lab Sample ID: 180-68219-1 MSD
Matrix: Solid
Analysis Batch: 217471

Client Sample ID: W6, S1, A 071317
Prep Type: Total/NA
Prep Batch: 217488

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	ND		0.0360	0.0350		mg/Kg	☼	97	20 - 150	7	40
Benzene	ND		0.0360	0.0331		mg/Kg	☼	92	77 - 120	4	20
2-Butanone (MEK)	ND		0.0360	0.0334		mg/Kg	☼	93	35 - 149	5	36
Carbon tetrachloride	ND		0.0360	0.0280		mg/Kg	☼	78	69 - 122	6	22
Chlorobenzene	ND		0.0360	0.0327		mg/Kg	☼	91	79 - 120	1	20
Chloroform	ND		0.0360	0.0313		mg/Kg	☼	87	72 - 120	3	25
cis-1,2-Dichloroethene	ND		0.0360	0.0320		mg/Kg	☼	89	80 - 118	3	20
1,2-Dichlorobenzene	ND		0.0360	0.0336		mg/Kg	☼	93	71 - 124	2	22
1,3-Dichlorobenzene	ND		0.0360	0.0335		mg/Kg	☼	93	75 - 118	2	20
1,4-Dichlorobenzene	ND		0.0360	0.0334		mg/Kg	☼	93	77 - 116	3	20
1,1-Dichloroethane	ND		0.0360	0.0333		mg/Kg	☼	93	66 - 124	5	23
1,2-Dichloroethane	ND		0.0360	0.0299		mg/Kg	☼	83	61 - 127	5	23
1,1-Dichloroethene	ND		0.0360	0.0324		mg/Kg	☼	90	59 - 129	4	25
Ethylbenzene	ND		0.0360	0.0326		mg/Kg	☼	91	78 - 125	2	21
Methylene Chloride	ND		0.0360	0.0300		mg/Kg	☼	83	58 - 127	4	28
Methyl tert-butyl ether	ND		0.0360	0.0305		mg/Kg	☼	85	48 - 132	5	36
n-Butylbenzene	ND		0.0360	0.0351		mg/Kg	☼	98	59 - 145	1	24
N-Propylbenzene	ND		0.0360	0.0318		mg/Kg	☼	88	80 - 120	3	20
sec-Butylbenzene	ND		0.0360	0.0346		mg/Kg	☼	96	70 - 130	2	21
tert-Butylbenzene	ND		0.0360	0.0334		mg/Kg	☼	93	74 - 133	2	22
Tetrachloroethene	ND		0.0360	0.0347		mg/Kg	☼	96	78 - 129	4	20
Toluene	ND		0.0360	0.0347		mg/Kg	☼	96	78 - 124	3	21
trans-1,2-Dichloroethene	ND		0.0360	0.0324		mg/Kg	☼	90	77 - 121	5	20
1,1,1-Trichloroethane	ND		0.0360	0.0312		mg/Kg	☼	87	67 - 126	4	31
Trichloroethene	ND		0.0360	0.0323		mg/Kg	☼	90	76 - 119	4	21
1,2,4-Trimethylbenzene	ND		0.0360	0.0336		mg/Kg	☼	93	80 - 121	2	20
1,3,5-Trimethylbenzene	ND		0.0360	0.0336		mg/Kg	☼	93	68 - 133	2	21
Vinyl chloride	ND		0.0360	0.0398		mg/Kg	☼	111	63 - 124	1	27

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 180-68219-1 MSD
Matrix: Solid
Analysis Batch: 217471

Client Sample ID: W6, S1, A 071317
Prep Type: Total/NA
Prep Batch: 217488

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Xylenes, Total	ND		0.0720	0.0659		mg/Kg	☼	92	83 - 126	1	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*95*		*63 - 120*
Dibromofluoromethane (Surr)	*91*		*68 - 121*
1,2-Dichloroethane-d4 (Surr)	*88*		*52 - 124*
Toluene-d8 (Surr)	*101*		*72 - 127*

Lab Sample ID: MB 180-217610/9
Matrix: Solid
Analysis Batch: 217610

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.020	0.0032	mg/Kg			07/20/17 09:16	1
Benzene	ND		0.0050	0.0020	mg/Kg			07/20/17 09:16	1
2-Butanone (MEK)	ND		0.0050	0.0029	mg/Kg			07/20/17 09:16	1
Carbon tetrachloride	ND		0.0050	0.0033	mg/Kg			07/20/17 09:16	1
Chlorobenzene	ND		0.0050	0.0016	mg/Kg			07/20/17 09:16	1
Chloroform	ND		0.0050	0.0021	mg/Kg			07/20/17 09:16	1
cis-1,2-Dichloroethene	ND		0.0050	0.0016	mg/Kg			07/20/17 09:16	1
1,2-Dichlorobenzene	ND		0.0050	0.0040	mg/Kg			07/20/17 09:16	1
1,3-Dichlorobenzene	ND		0.0050	0.0016	mg/Kg			07/20/17 09:16	1
1,4-Dichlorobenzene	ND		0.0050	0.0010	mg/Kg			07/20/17 09:16	1
1,1-Dichloroethane	ND		0.0050	0.0018	mg/Kg			07/20/17 09:16	1
1,2-Dichloroethane	ND		0.0050	0.0015	mg/Kg			07/20/17 09:16	1
1,1-Dichloroethene	ND		0.0050	0.0029	mg/Kg			07/20/17 09:16	1
Ethylbenzene	ND		0.0050	0.0022	mg/Kg			07/20/17 09:16	1
Methylene Chloride	ND		0.0050	0.0024	mg/Kg			07/20/17 09:16	1
Methyl tert-butyl ether	ND		0.0050	0.0037	mg/Kg			07/20/17 09:16	1
n-Butylbenzene	ND		0.0050	0.0038	mg/Kg			07/20/17 09:16	1
N-Propylbenzene	ND		0.0050	0.0021	mg/Kg			07/20/17 09:16	1
sec-Butylbenzene	ND		0.0050	0.0024	mg/Kg			07/20/17 09:16	1
tert-Butylbenzene	ND		0.0050	0.0018	mg/Kg			07/20/17 09:16	1
Tetrachloroethene	ND		0.0050	0.0020	mg/Kg			07/20/17 09:16	1
Toluene	ND		0.0050	0.0017	mg/Kg			07/20/17 09:16	1
trans-1,2-Dichloroethene	ND		0.0050	0.0025	mg/Kg			07/20/17 09:16	1
1,1,1-Trichloroethane	ND		0.0050	0.0025	mg/Kg			07/20/17 09:16	1
Trichloroethene	ND		0.0050	0.0015	mg/Kg			07/20/17 09:16	1
1,2,4-Trimethylbenzene	ND		0.0050	0.0013	mg/Kg			07/20/17 09:16	1
1,3,5-Trimethylbenzene	ND		0.0050	0.0017	mg/Kg			07/20/17 09:16	1
Vinyl chloride	ND		0.0050	0.0037	mg/Kg			07/20/17 09:16	1
Xylenes, Total	ND		0.010	0.0043	mg/Kg			07/20/17 09:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*63 - 120*		*07/20/17 09:16*	*1*
Dibromofluoromethane (Surr)	*94*		*68 - 121*		*07/20/17 09:16*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*52 - 124*		*07/20/17 09:16*	*1*

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 180-217610/9
Matrix: Solid
Analysis Batch: 217610

Client Sample ID: Method Blank
Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	109		72 - 127		07/20/17 09:16	1

Lab Sample ID: LCS 180-217610/4
Matrix: Solid
Analysis Batch: 217610

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0400	0.0360		mg/Kg		90	20 - 150
Benzene	0.0400	0.0367		mg/Kg		92	77 - 120
2-Butanone (MEK)	0.0400	0.0382		mg/Kg		95	35 - 149
Carbon tetrachloride	0.0400	0.0309		mg/Kg		77	69 - 122
Chlorobenzene	0.0400	0.0356		mg/Kg		89	79 - 120
Chloroform	0.0400	0.0347		mg/Kg		87	72 - 120
cis-1,2-Dichloroethene	0.0400	0.0349		mg/Kg		87	80 - 118
1,2-Dichlorobenzene	0.0400	0.0363		mg/Kg		91	71 - 124
1,3-Dichlorobenzene	0.0400	0.0359		mg/Kg		90	75 - 118
1,4-Dichlorobenzene	0.0400	0.0363		mg/Kg		91	77 - 116
1,1-Dichloroethane	0.0400	0.0381		mg/Kg		95	66 - 124
1,2-Dichloroethane	0.0400	0.0343		mg/Kg		86	61 - 127
1,1-Dichloroethene	0.0400	0.0354		mg/Kg		89	59 - 129
Ethylbenzene	0.0400	0.0359		mg/Kg		90	78 - 125
Methylene Chloride	0.0400	0.0331		mg/Kg		83	58 - 127
Methyl tert-butyl ether	0.0400	0.0349		mg/Kg		87	48 - 132
n-Butylbenzene	0.0400	0.0386		mg/Kg		97	59 - 145
N-Propylbenzene	0.0400	0.0346		mg/Kg		87	80 - 120
sec-Butylbenzene	0.0400	0.0377		mg/Kg		94	70 - 130
tert-Butylbenzene	0.0400	0.0363		mg/Kg		91	74 - 133
Tetrachloroethene	0.0400	0.0368		mg/Kg		92	78 - 129
Toluene	0.0400	0.0381		mg/Kg		95	78 - 124
trans-1,2-Dichloroethene	0.0400	0.0360		mg/Kg		90	77 - 121
1,1,1-Trichloroethane	0.0400	0.0348		mg/Kg		87	67 - 126
Trichloroethene	0.0400	0.0350		mg/Kg		87	76 - 119
1,2,4-Trimethylbenzene	0.0400	0.0369		mg/Kg		92	80 - 121
1,3,5-Trimethylbenzene	0.0400	0.0369		mg/Kg		92	68 - 133
Vinyl chloride	0.0400	0.0424		mg/Kg		106	63 - 124
Xylenes, Total	0.0800	0.0713		mg/Kg		89	83 - 126

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		63 - 120
Dibromofluoromethane (Surr)	94		68 - 121
1,2-Dichloroethane-d4 (Surr)	93		52 - 124
Toluene-d8 (Surr)	103		72 - 127

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 180-217610/5
Matrix: Solid
Analysis Batch: 217610

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	0.0400	0.0363		mg/Kg		91	20 - 150	1	40
Benzene	0.0400	0.0397		mg/Kg		99	77 - 120	8	20
2-Butanone (MEK)	0.0400	0.0387		mg/Kg		97	35 - 149	1	36
Carbon tetrachloride	0.0400	0.0347		mg/Kg		87	69 - 122	12	22
Chlorobenzene	0.0400	0.0387		mg/Kg		97	79 - 120	8	20
Chloroform	0.0400	0.0381		mg/Kg		95	72 - 120	9	25
cis-1,2-Dichloroethene	0.0400	0.0379		mg/Kg		95	80 - 118	8	20
1,2-Dichlorobenzene	0.0400	0.0396		mg/Kg		99	71 - 124	9	22
1,3-Dichlorobenzene	0.0400	0.0390		mg/Kg		98	75 - 118	8	20
1,4-Dichlorobenzene	0.0400	0.0391		mg/Kg		98	77 - 116	7	20
1,1-Dichloroethane	0.0400	0.0408		mg/Kg		102	66 - 124	7	23
1,2-Dichloroethane	0.0400	0.0375		mg/Kg		94	61 - 127	9	23
1,1-Dichloroethene	0.0400	0.0383		mg/Kg		96	59 - 129	8	25
Ethylbenzene	0.0400	0.0391		mg/Kg		98	78 - 125	8	21
Methylene Chloride	0.0400	0.0364		mg/Kg		91	58 - 127	10	28
Methyl tert-butyl ether	0.0400	0.0371		mg/Kg		93	48 - 132	6	36
n-Butylbenzene	0.0400	0.0419		mg/Kg		105	59 - 145	8	24
N-Propylbenzene	0.0400	0.0383		mg/Kg		96	80 - 120	10	20
sec-Butylbenzene	0.0400	0.0412		mg/Kg		103	70 - 130	9	21
tert-Butylbenzene	0.0400	0.0391		mg/Kg		98	74 - 133	8	22
Tetrachloroethene	0.0400	0.0395		mg/Kg		99	78 - 129	7	20
Toluene	0.0400	0.0404		mg/Kg		101	78 - 124	6	21
trans-1,2-Dichloroethene	0.0400	0.0385		mg/Kg		96	77 - 121	7	20
1,1,1-Trichloroethane	0.0400	0.0385		mg/Kg		96	67 - 126	10	31
Trichloroethene	0.0400	0.0382		mg/Kg		96	76 - 119	9	21
1,2,4-Trimethylbenzene	0.0400	0.0401		mg/Kg		100	80 - 121	8	20
1,3,5-Trimethylbenzene	0.0400	0.0399		mg/Kg		100	68 - 133	8	21
Vinyl chloride	0.0400	0.0461		mg/Kg		115	63 - 124	8	27
Xylenes, Total	0.0800	0.0773		mg/Kg		97	83 - 126	8	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*63 - 120*
Dibromofluoromethane (Surr)	*97*		*68 - 121*
1,2-Dichloroethane-d4 (Surr)	*98*		*52 - 124*
Toluene-d8 (Surr)	*106*		*72 - 127*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Lab Sample ID: MB 180-217139/1-A
Matrix: Solid
Analysis Batch: 217155

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 217139

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0067	0.0022	mg/Kg		07/15/17 04:42	07/15/17 10:59	1
Acenaphthylene	ND		0.0067	0.0023	mg/Kg		07/15/17 04:42	07/15/17 10:59	1
Anthracene	ND		0.0067	0.0025	mg/Kg		07/15/17 04:42	07/15/17 10:59	1
Benzo[a]anthracene	ND		0.0067	0.0026	mg/Kg		07/15/17 04:42	07/15/17 10:59	1

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: MB 180-217139/1-A
Matrix: Solid
Analysis Batch: 217155

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 217139

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	ND		0.0067	0.0028	mg/Kg		07/15/17 04:42	07/15/17 10:59	1
Benzo[b]fluoranthene	ND		0.0067	0.0029	mg/Kg		07/15/17 04:42	07/15/17 10:59	1
Benzo[g,h,i]perylene	ND		0.0067	0.0029	mg/Kg		07/15/17 04:42	07/15/17 10:59	1
Benzo[k]fluoranthene	ND		0.0067	0.0023	mg/Kg		07/15/17 04:42	07/15/17 10:59	1
Chrysene	ND		0.0067	0.0026	mg/Kg		07/15/17 04:42	07/15/17 10:59	1
Dibenz(a,h)anthracene	ND		0.0067	0.0028	mg/Kg		07/15/17 04:42	07/15/17 10:59	1
Dibenzofuran	ND		0.033	0.0027	mg/Kg		07/15/17 04:42	07/15/17 10:59	1
2,4-Dinitrotoluene	ND		0.033	0.0044	mg/Kg		07/15/17 04:42	07/15/17 10:59	1
1,4-Dioxane	ND		0.067	0.0050	mg/Kg		07/15/17 04:42	07/15/17 10:59	1
Fluoranthene	ND		0.0067	0.0026	mg/Kg		07/15/17 04:42	07/15/17 10:59	1
Fluorene	ND		0.0067	0.0024	mg/Kg		07/15/17 04:42	07/15/17 10:59	1
Hexachlorobenzene	ND		0.0067	0.0027	mg/Kg		07/15/17 04:42	07/15/17 10:59	1
Hexachlorobutadiene	ND		0.0067	0.0021	mg/Kg		07/15/17 04:42	07/15/17 10:59	1
Hexachloroethane	ND		0.033	0.0024	mg/Kg		07/15/17 04:42	07/15/17 10:59	1
Indeno[1,2,3-cd]pyrene	ND		0.0067	0.0026	mg/Kg		07/15/17 04:42	07/15/17 10:59	1
2-Methylphenol	ND		0.033	0.0029	mg/Kg		07/15/17 04:42	07/15/17 10:59	1
Methylphenol, 3 & 4	ND		0.033	0.0030	mg/Kg		07/15/17 04:42	07/15/17 10:59	1
Naphthalene	ND		0.0067	0.0024	mg/Kg		07/15/17 04:42	07/15/17 10:59	1
Nitrobenzene	ND		0.067	0.0025	mg/Kg		07/15/17 04:42	07/15/17 10:59	1
Pentachlorophenol	ND		0.17	0.063	mg/Kg		07/15/17 04:42	07/15/17 10:59	1
Phenanthrene	ND		0.0067	0.0028	mg/Kg		07/15/17 04:42	07/15/17 10:59	1
Phenol	ND		0.033	0.0045	mg/Kg		07/15/17 04:42	07/15/17 10:59	1
Pyrene	ND		0.0067	0.0030	mg/Kg		07/15/17 04:42	07/15/17 10:59	1
Pyridine	ND		0.033	0.0032	mg/Kg		07/15/17 04:42	07/15/17 10:59	1
2,4,5-Trichlorophenol	ND		0.033	0.0032	mg/Kg		07/15/17 04:42	07/15/17 10:59	1
2,4,6-Trichlorophenol	ND		0.033	0.0029	mg/Kg		07/15/17 04:42	07/15/17 10:59	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*82*		*42 - 100*	*07/15/17 04:42*	*07/15/17 10:59*	*1*
2-Fluorophenol (Surr)	*75*		*21 - 107*	*07/15/17 04:42*	*07/15/17 10:59*	*1*
Nitrobenzene-d5 (Surr)	*82*		*35 - 109*	*07/15/17 04:42*	*07/15/17 10:59*	*1*
Phenol-d5 (Surr)	*68*		*29 - 105*	*07/15/17 04:42*	*07/15/17 10:59*	*1*
Terphenyl-d14 (Surr)	*86*		*36 - 113*	*07/15/17 04:42*	*07/15/17 10:59*	*1*
2,4,6-Tribromophenol (Surr)	*77*		*20 - 134*	*07/15/17 04:42*	*07/15/17 10:59*	*1*

Lab Sample ID: MB 180-217139/1-A
Matrix: Solid
Analysis Batch: 217242

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 217139

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0067	0.0022	mg/Kg		07/15/17 04:42	07/17/17 11:21	1
Acenaphthylene	ND		0.0067	0.0023	mg/Kg		07/15/17 04:42	07/17/17 11:21	1
Anthracene	ND		0.0067	0.0025	mg/Kg		07/15/17 04:42	07/17/17 11:21	1
Benzo[a]anthracene	ND		0.0067	0.0026	mg/Kg		07/15/17 04:42	07/17/17 11:21	1
Benzo[a]pyrene	ND		0.0067	0.0028	mg/Kg		07/15/17 04:42	07/17/17 11:21	1
Benzo[b]fluoranthene	ND		0.0067	0.0029	mg/Kg		07/15/17 04:42	07/17/17 11:21	1
Benzo[g,h,i]perylene	ND		0.0067	0.0029	mg/Kg		07/15/17 04:42	07/17/17 11:21	1
Benzo[k]fluoranthene	ND		0.0067	0.0023	mg/Kg		07/15/17 04:42	07/17/17 11:21	1

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: MB 180-217139/1-A
Matrix: Solid
Analysis Batch: 217242

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 217139

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	ND		0.0067	0.0026	mg/Kg		07/15/17 04:42	07/17/17 11:21	1
Dibenz(a,h)anthracene	ND		0.0067	0.0028	mg/Kg		07/15/17 04:42	07/17/17 11:21	1
Dibenzofuran	ND		0.033	0.0027	mg/Kg		07/15/17 04:42	07/17/17 11:21	1
2,4-Dinitrotoluene	ND		0.033	0.0044	mg/Kg		07/15/17 04:42	07/17/17 11:21	1
1,4-Dioxane	ND		0.067	0.0050	mg/Kg		07/15/17 04:42	07/17/17 11:21	1
Fluoranthene	ND		0.0067	0.0026	mg/Kg		07/15/17 04:42	07/17/17 11:21	1
Fluorene	ND		0.0067	0.0024	mg/Kg		07/15/17 04:42	07/17/17 11:21	1
Hexachlorobenzene	ND		0.0067	0.0027	mg/Kg		07/15/17 04:42	07/17/17 11:21	1
Hexachlorobutadiene	ND		0.0067	0.0021	mg/Kg		07/15/17 04:42	07/17/17 11:21	1
Hexachloroethane	ND		0.033	0.0024	mg/Kg		07/15/17 04:42	07/17/17 11:21	1
Indeno[1,2,3-cd]pyrene	ND		0.0067	0.0026	mg/Kg		07/15/17 04:42	07/17/17 11:21	1
2-Methylphenol	ND		0.033	0.0029	mg/Kg		07/15/17 04:42	07/17/17 11:21	1
Methylphenol, 3 & 4	ND		0.033	0.0030	mg/Kg		07/15/17 04:42	07/17/17 11:21	1
Naphthalene	ND		0.0067	0.0024	mg/Kg		07/15/17 04:42	07/17/17 11:21	1
Nitrobenzene	ND		0.067	0.0025	mg/Kg		07/15/17 04:42	07/17/17 11:21	1
Pentachlorophenol	ND		0.17	0.063	mg/Kg		07/15/17 04:42	07/17/17 11:21	1
Phenanthrene	ND		0.0067	0.0028	mg/Kg		07/15/17 04:42	07/17/17 11:21	1
Phenol	ND		0.033	0.0045	mg/Kg		07/15/17 04:42	07/17/17 11:21	1
Pyrene	ND		0.0067	0.0030	mg/Kg		07/15/17 04:42	07/17/17 11:21	1
Pyridine	ND		0.033	0.0032	mg/Kg		07/15/17 04:42	07/17/17 11:21	1
2,4,5-Trichlorophenol	ND		0.033	0.0032	mg/Kg		07/15/17 04:42	07/17/17 11:21	1
2,4,6-Trichlorophenol	ND		0.033	0.0029	mg/Kg		07/15/17 04:42	07/17/17 11:21	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*61*		*42 - 100*	*07/15/17 04:42*	*07/17/17 11:21*	*1*
2-Fluorophenol (Surr)	*65*		*21 - 107*	*07/15/17 04:42*	*07/17/17 11:21*	*1*
Nitrobenzene-d5 (Surr)	*66*		*35 - 109*	*07/15/17 04:42*	*07/17/17 11:21*	*1*
Phenol-d5 (Surr)	*60*		*29 - 105*	*07/15/17 04:42*	*07/17/17 11:21*	*1*
Terphenyl-d14 (Surr)	*62*		*36 - 113*	*07/15/17 04:42*	*07/17/17 11:21*	*1*
2,4,6-Tribromophenol (Surr)	*66*		*20 - 134*	*07/15/17 04:42*	*07/17/17 11:21*	*1*

Lab Sample ID: LCS 180-217139/2-A
Matrix: Solid
Analysis Batch: 217155

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 217139

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	0.667	0.531		mg/Kg		80	39 - 100
Acenaphthylene	0.667	0.513		mg/Kg		77	42 - 100
Anthracene	0.667	0.587		mg/Kg		88	43 - 100
Benzo[a]anthracene	0.667	0.572		mg/Kg		86	43 - 100
Benzo[a]pyrene	0.667	0.551		mg/Kg		83	43 - 100
Benzo[b]fluoranthene	0.667	0.523		mg/Kg		78	40 - 100
Benzo[g,h,i]perylene	0.667	0.540		mg/Kg		81	41 - 102
Benzo[k]fluoranthene	0.667	0.528		mg/Kg		79	44 - 100
Chrysene	0.667	0.545		mg/Kg		82	44 - 100
Dibenz(a,h)anthracene	0.667	0.547		mg/Kg		82	40 - 104
Dibenzofuran	0.667	0.506		mg/Kg		76	42 - 100
2,4-Dinitrotoluene	0.667	0.562		mg/Kg		84	42 - 110

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCS 180-217139/2-A
Matrix: Solid
Analysis Batch: 217155

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 217139

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	0.667	0.547		mg/Kg		82	19 - 107
Fluoranthene	0.667	0.592		mg/Kg		89	41 - 104
Fluorene	0.667	0.538		mg/Kg		81	41 - 100
Hexachlorobenzene	0.667	0.626		mg/Kg		94	43 - 100
Hexachlorobutadiene	0.667	0.581		mg/Kg		87	35 - 100
Hexachloroethane	0.667	0.455		mg/Kg		68	35 - 100
Indeno[1,2,3-cd]pyrene	0.667	0.555		mg/Kg		83	41 - 104
2-Methylphenol	0.667	0.460		mg/Kg		69	38 - 100
Methylphenol, 3 & 4	0.667	0.435		mg/Kg		65	40 - 100
Naphthalene	0.667	0.467		mg/Kg		70	38 - 100
Nitrobenzene	0.667	0.480		mg/Kg		72	34 - 100
Pentachlorophenol	1.33	0.863		mg/Kg		65	34 - 102
Phenanthrene	0.667	0.563		mg/Kg		84	41 - 100
Phenol	0.667	0.430		mg/Kg		65	36 - 100
Pyrene	0.667	0.540		mg/Kg		81	42 - 100
Pyridine	1.33	1.20		mg/Kg		90	25 - 119
2,4,5-Trichlorophenol	0.667	0.574		mg/Kg		86	42 - 100
2,4,6-Trichlorophenol	0.667	0.554		mg/Kg		83	41 - 103

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*74*		*42 - 100*
2-Fluorophenol (Surr)	*68*		*21 - 107*
Nitrobenzene-d5 (Surr)	*67*		*35 - 109*
Phenol-d5 (Surr)	*59*		*29 - 105*
Terphenyl-d14 (Surr)	*78*		*36 - 113*
2,4,6-Tribromophenol (Surr)	*79*		*20 - 134*

Lab Sample ID: 180-68219-3 MS
Matrix: Solid
Analysis Batch: 217155

Client Sample ID: W6, S1, C 071317
Prep Type: Total/NA
Prep Batch: 217139

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	0.010	J	0.693	0.497		mg/Kg	☼	70	39 - 100
Acenaphthylene	0.15		0.693	0.672		mg/Kg	☼	76	42 - 100
Anthracene	0.17	F2	0.693	0.751		mg/Kg	☼	84	43 - 100
Benzo[a]anthracene	0.48	F2	0.693	1.10		mg/Kg	☼	89	43 - 100
Benzo[a]pyrene	0.46	F2	0.693	1.06		mg/Kg	☼	86	43 - 100
Benzo[b]fluoranthene	0.55	F2 F1	0.693	1.11		mg/Kg	☼	80	40 - 100
Benzo[g,h,i]perylene	0.49	F1 F2	0.693	1.25	F1	mg/Kg	☼	110	41 - 102
Benzo[k]fluoranthene	0.24		0.693	0.756		mg/Kg	☼	75	44 - 100
Chrysene	0.46	F2	0.693	1.04		mg/Kg	☼	83	44 - 100
Dibenz(a,h)anthracene	0.12		0.693	0.757		mg/Kg	☼	92	40 - 104
Dibenzofuran	0.029	J	0.693	0.499		mg/Kg	☼	68	42 - 100
2,4-Dinitrotoluene	ND		0.693	0.542		mg/Kg	☼	78	42 - 110
1,4-Dioxane	ND		0.693	0.453		mg/Kg	☼	65	19 - 107
Fluoranthene	0.94	F2 F1	0.693	1.61		mg/Kg	☼	97	41 - 104
Fluorene	0.027		0.693	0.526		mg/Kg	☼	72	41 - 100
Hexachlorobenzene	ND		0.693	0.582		mg/Kg	☼	84	43 - 100

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: 180-68219-3 MS
Matrix: Solid
Analysis Batch: 217155

Client Sample ID: W6, S1, C 071317
Prep Type: Total/NA
Prep Batch: 217139

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Hexachlorobutadiene	ND		0.693	0.549		mg/Kg	☼	79	35 - 100
Hexachloroethane	ND		0.693	0.390		mg/Kg	☼	56	35 - 100
Indeno[1,2,3-cd]pyrene	0.41		0.693	1.12		mg/Kg	☼	103	41 - 104
2-Methylphenol	ND		0.693	0.367		mg/Kg	☼	53	38 - 100
Methylphenol, 3 & 4	ND		0.693	0.357		mg/Kg	☼	52	40 - 100
Naphthalene	0.12		0.693	0.563		mg/Kg	☼	64	38 - 100
Nitrobenzene	ND		0.693	0.495		mg/Kg	☼	71	34 - 100
Pentachlorophenol	ND	F1	1.39	0.336	J F1	mg/Kg	☼	24	34 - 102
Phenanthrene	0.37	F2 F1	0.693	0.904		mg/Kg	☼	76	41 - 100
Phenol	ND		0.693	0.344		mg/Kg	☼	50	36 - 100
Pyrene	0.69	F2 F1	0.693	1.17		mg/Kg	☼	68	42 - 100
Pyridine	ND	F1 F2	1.39	0.0243	J F1	mg/Kg	☼	2	25 - 119
2,4,5-Trichlorophenol	ND		0.693	0.473		mg/Kg	☼	68	42 - 100
2,4,6-Trichlorophenol	ND		0.693	0.471		mg/Kg	☼	68	41 - 103

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl	*63*		*42 - 100*
2-Fluorophenol (Surr)	*52*		*21 - 107*
Nitrobenzene-d5 (Surr)	*63*		*35 - 109*
Phenol-d5 (Surr)	*50*		*29 - 105*
Terphenyl-d14 (Surr)	*62*		*36 - 113*
2,4,6-Tribromophenol (Surr)	*70*		*20 - 134*

Lab Sample ID: 180-68219-3 MSD
Matrix: Solid
Analysis Batch: 217155

Client Sample ID: W6, S1, C 071317
Prep Type: Total/NA
Prep Batch: 217139

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	0.010	J	0.697	0.468		mg/Kg	☼	66	39 - 100	6	20
Acenaphthylene	0.15		0.697	0.618		mg/Kg	☼	68	42 - 100	8	20
Anthracene	0.17	F2	0.697	0.602	F2	mg/Kg	☼	63	43 - 100	22	20
Benzo[a]anthracene	0.48	F2	0.697	0.878	F2	mg/Kg	☼	57	43 - 100	22	20
Benzo[a]pyrene	0.46	F2	0.697	0.799	F2	mg/Kg	☼	48	43 - 100	28	20
Benzo[b]fluoranthene	0.55	F2 F1	0.697	0.787	F1 F2	mg/Kg	☼	33	40 - 100	34	20
Benzo[g,h,i]perylene	0.49	F1 F2	0.697	0.988	F2	mg/Kg	☼	72	41 - 102	23	20
Benzo[k]fluoranthene	0.24		0.697	0.633		mg/Kg	☼	57	44 - 100	18	20
Chrysene	0.46	F2	0.697	0.815	F2	mg/Kg	☼	50	44 - 100	24	20
Dibenz(a,h)anthracene	0.12		0.697	0.661		mg/Kg	☼	78	40 - 104	14	26
Dibenzofuran	0.029	J	0.697	0.504		mg/Kg	☼	68	42 - 100	1	23
2,4-Dinitrotoluene	ND		0.697	0.566		mg/Kg	☼	81	42 - 110	4	21
1,4-Dioxane	ND		0.697	0.494		mg/Kg	☼	71	19 - 107	9	20
Fluoranthene	0.94	F2 F1	0.697	1.09	F1 F2	mg/Kg	☼	21	41 - 104	39	20
Fluorene	0.027		0.697	0.512		mg/Kg	☼	70	41 - 100	3	21
Hexachlorobenzene	ND		0.697	0.526		mg/Kg	☼	76	43 - 100	10	21
Hexachlorobutadiene	ND		0.697	0.533		mg/Kg	☼	77	35 - 100	3	20
Hexachloroethane	ND		0.697	0.399		mg/Kg	☼	57	35 - 100	2	20
Indeno[1,2,3-cd]pyrene	0.41		0.697	0.881		mg/Kg	☼	68	41 - 104	24	25
2-Methylphenol	ND		0.697	0.352		mg/Kg	☼	51	38 - 100	4	20

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: 180-68219-3 MSD
Matrix: Solid
Analysis Batch: 217155

Client Sample ID: W6, S1, C 071317
Prep Type: Total/NA
Prep Batch: 217139

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methylphenol, 3 & 4	ND		0.697	0.344		mg/Kg	☼	49	40 - 100	4	20
Naphthalene	0.12		0.697	0.509		mg/Kg	☼	56	38 - 100	10	20
Nitrobenzene	ND		0.697	0.456		mg/Kg	☼	65	34 - 100	8	20
Pentachlorophenol	ND	F1	1.39	0.289	J F1	mg/Kg	☼	21	34 - 102	15	20
Phenanthrene	0.37	F2 F1	0.697	0.655	F1 F2	mg/Kg	☼	40	41 - 100	32	20
Phenol	ND		0.697	0.333		mg/Kg	☼	48	36 - 100	3	20
Pyrene	0.69	F2 F1	0.697	0.871	F1 F2	mg/Kg	☼	26	42 - 100	29	21
Pyridine	ND	F1 F2	1.39	0.215	F1 F2	mg/Kg	☼	15	25 - 119	159	20
2,4,5-Trichlorophenol	ND		0.697	0.492		mg/Kg	☼	71	42 - 100	4	22
2,4,6-Trichlorophenol	ND		0.697	0.469		mg/Kg	☼	67	41 - 103	0	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl	*62*		*42 - 100*
2-Fluorophenol (Surr)	*49*		*21 - 107*
Nitrobenzene-d5 (Surr)	*58*		*35 - 109*
Phenol-d5 (Surr)	*44*		*29 - 105*
Terphenyl-d14 (Surr)	*60*		*36 - 113*
2,4,6-Tribromophenol (Surr)	*54*		*20 - 134*

Lab Sample ID: MB 180-217195/1-A
Matrix: Solid
Analysis Batch: 217231

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 217195

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0034	0.0011	mg/Kg		07/16/17 13:37	07/17/17 09:31	1
Acenaphthylene	ND		0.0034	0.0011	mg/Kg		07/16/17 13:37	07/17/17 09:31	1
Anthracene	ND		0.0034	0.0012	mg/Kg		07/16/17 13:37	07/17/17 09:31	1
Benzo[a]anthracene	ND		0.0034	0.0013	mg/Kg		07/16/17 13:37	07/17/17 09:31	1
Benzo[a]pyrene	ND		0.0034	0.0014	mg/Kg		07/16/17 13:37	07/17/17 09:31	1
Benzo[b]fluoranthene	ND		0.0034	0.0014	mg/Kg		07/16/17 13:37	07/17/17 09:31	1
Benzo[g,h,i]perylene	ND		0.0034	0.0014	mg/Kg		07/16/17 13:37	07/17/17 09:31	1
Benzo[k]fluoranthene	ND		0.0034	0.0012	mg/Kg		07/16/17 13:37	07/17/17 09:31	1
Chrysene	ND		0.0034	0.0013	mg/Kg		07/16/17 13:37	07/17/17 09:31	1
Dibenz(a,h)anthracene	ND		0.0034	0.0014	mg/Kg		07/16/17 13:37	07/17/17 09:31	1
Dibenzofuran	ND		0.017	0.0013	mg/Kg		07/16/17 13:37	07/17/17 09:31	1
2,4-Dinitrotoluene	ND		0.017	0.0022	mg/Kg		07/16/17 13:37	07/17/17 09:31	1
1,4-Dioxane	ND		0.033	0.0025	mg/Kg		07/16/17 13:37	07/17/17 09:31	1
Fluoranthene	ND		0.0034	0.0013	mg/Kg		07/16/17 13:37	07/17/17 09:31	1
Fluorene	ND		0.0034	0.0012	mg/Kg		07/16/17 13:37	07/17/17 09:31	1
Hexachlorobenzene	ND		0.0034	0.0013	mg/Kg		07/16/17 13:37	07/17/17 09:31	1
Hexachlorobutadiene	ND		0.0034	0.0011	mg/Kg		07/16/17 13:37	07/17/17 09:31	1
Hexachloroethane	ND		0.017	0.0012	mg/Kg		07/16/17 13:37	07/17/17 09:31	1
Indeno[1,2,3-cd]pyrene	ND		0.0034	0.0013	mg/Kg		07/16/17 13:37	07/17/17 09:31	1
2-Methylphenol	ND		0.017	0.0015	mg/Kg		07/16/17 13:37	07/17/17 09:31	1
Methylphenol, 3 & 4	ND		0.017	0.0015	mg/Kg		07/16/17 13:37	07/17/17 09:31	1
Naphthalene	ND		0.0034	0.0012	mg/Kg		07/16/17 13:37	07/17/17 09:31	1
Nitrobenzene	ND		0.033	0.0013	mg/Kg		07/16/17 13:37	07/17/17 09:31	1
Pentachlorophenol	ND		0.085	0.032	mg/Kg		07/16/17 13:37	07/17/17 09:31	1

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: MB 180-217195/1-A
Matrix: Solid
Analysis Batch: 217231

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 217195

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenanthrene	ND		0.0034	0.0014	mg/Kg		07/16/17 13:37	07/17/17 09:31	1
Phenol	ND		0.017	0.0023	mg/Kg		07/16/17 13:37	07/17/17 09:31	1
Pyrene	ND		0.0034	0.0015	mg/Kg		07/16/17 13:37	07/17/17 09:31	1
Pyridine	ND		0.017	0.0016	mg/Kg		07/16/17 13:37	07/17/17 09:31	1
2,4,5-Trichlorophenol	ND		0.017	0.0016	mg/Kg		07/16/17 13:37	07/17/17 09:31	1
2,4,6-Trichlorophenol	ND		0.017	0.0015	mg/Kg		07/16/17 13:37	07/17/17 09:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*71*		*42 - 100*	*07/16/17 13:37*	*07/17/17 09:31*	*1*
2-Fluorophenol (Surr)	*69*		*21 - 107*	*07/16/17 13:37*	*07/17/17 09:31*	*1*
Nitrobenzene-d5 (Surr)	*69*		*35 - 109*	*07/16/17 13:37*	*07/17/17 09:31*	*1*
Phenol-d5 (Surr)	*71*		*29 - 105*	*07/16/17 13:37*	*07/17/17 09:31*	*1*
Terphenyl-d14 (Surr)	*80*		*36 - 113*	*07/16/17 13:37*	*07/17/17 09:31*	*1*
2,4,6-Tribromophenol (Surr)	*74*		*20 - 134*	*07/16/17 13:37*	*07/17/17 09:31*	*1*

Lab Sample ID: LCS 180-217195/2-A
Matrix: Solid
Analysis Batch: 217231

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 217195

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	0.333	0.242		mg/Kg		72	39 - 100
Acenaphthylene	0.333	0.245		mg/Kg		73	42 - 100
Anthracene	0.333	0.250		mg/Kg		75	43 - 100
Benzo[a]anthracene	0.333	0.245		mg/Kg		73	43 - 100
Benzo[a]pyrene	0.333	0.251		mg/Kg		75	43 - 100
Benzo[b]fluoranthene	0.333	0.236		mg/Kg		71	40 - 100
Benzo[g,h,i]perylene	0.333	0.251		mg/Kg		75	41 - 102
Benzo[k]fluoranthene	0.333	0.255		mg/Kg		77	44 - 100
Chrysene	0.333	0.245		mg/Kg		73	44 - 100
Dibenz(a,h)anthracene	0.333	0.253		mg/Kg		76	40 - 104
Dibenzofuran	0.333	0.246		mg/Kg		74	42 - 100
2,4-Dinitrotoluene	0.333	0.271		mg/Kg		81	42 - 110
1,4-Dioxane	0.333	0.232		mg/Kg		70	19 - 107
Fluoranthene	0.333	0.261		mg/Kg		78	41 - 104
Fluorene	0.333	0.245		mg/Kg		73	41 - 100
Hexachlorobenzene	0.333	0.249		mg/Kg		75	43 - 100
Hexachlorobutadiene	0.333	0.231		mg/Kg		69	35 - 100
Hexachloroethane	0.333	0.227		mg/Kg		68	35 - 100
Indeno[1,2,3-cd]pyrene	0.333	0.256		mg/Kg		77	41 - 104
2-Methylphenol	0.333	0.241		mg/Kg		72	38 - 100
Methylphenol, 3 & 4	0.333	0.238		mg/Kg		71	40 - 100
Naphthalene	0.333	0.238		mg/Kg		71	38 - 100
Nitrobenzene	0.333	0.240		mg/Kg		72	34 - 100
Pentachlorophenol	0.667	0.490		mg/Kg		74	34 - 102
Phenanthrene	0.333	0.245		mg/Kg		73	41 - 100
Phenol	0.333	0.245		mg/Kg		74	36 - 100
Pyrene	0.333	0.247		mg/Kg		74	42 - 100
Pyridine	0.667	0.502		mg/Kg		75	25 - 119

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCS 180-217195/2-A
Matrix: Solid
Analysis Batch: 217231

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 217195

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
2,4,5-Trichlorophenol			0.333	0.248		mg/Kg		74	42 - 100		
2,4,6-Trichlorophenol			0.333	0.259		mg/Kg		78	41 - 103		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*71*		*42 - 100*
2-Fluorophenol (Surr)	*71*		*21 - 107*
Nitrobenzene-d5 (Surr)	*71*		*35 - 109*
Phenol-d5 (Surr)	*72*		*29 - 105*
Terphenyl-d14 (Surr)	*74*		*36 - 113*
2,4,6-Tribromophenol (Surr)	*75*		*20 - 134*

Lab Sample ID: LCSD 180-217195/3-A
Matrix: Solid
Analysis Batch: 217231

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 217195

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene			0.333	0.249		mg/Kg		75	39 - 100	3	20
Acenaphthylene			0.333	0.250		mg/Kg		75	42 - 100	2	20
Anthracene			0.333	0.258		mg/Kg		77	43 - 100	3	20
Benzo[a]anthracene			0.333	0.251		mg/Kg		75	43 - 100	3	20
Benzo[a]pyrene			0.333	0.261		mg/Kg		78	43 - 100	4	20
Benzo[b]fluoranthene			0.333	0.247		mg/Kg		74	40 - 100	4	20
Benzo[g,h,i]perylene			0.333	0.261		mg/Kg		78	41 - 102	4	20
Benzo[k]fluoranthene			0.333	0.264		mg/Kg		79	44 - 100	3	20
Chrysene			0.333	0.252		mg/Kg		76	44 - 100	3	20
Dibenz(a,h)anthracene			0.333	0.260		mg/Kg		78	40 - 104	3	26
Dibenzofuran			0.333	0.253		mg/Kg		76	42 - 100	3	23
2,4-Dinitrotoluene			0.333	0.279		mg/Kg		84	42 - 110	3	21
1,4-Dioxane			0.333	0.227		mg/Kg		68	19 - 107	2	20
Fluoranthene			0.333	0.267		mg/Kg		80	41 - 104	2	20
Fluorene			0.333	0.255		mg/Kg		76	41 - 100	4	21
Hexachlorobenzene			0.333	0.254		mg/Kg		76	43 - 100	2	21
Hexachlorobutadiene			0.333	0.243		mg/Kg		73	35 - 100	5	20
Hexachloroethane			0.333	0.233		mg/Kg		70	35 - 100	3	20
Indeno[1,2,3-cd]pyrene			0.333	0.263		mg/Kg		79	41 - 104	3	25
2-Methylphenol			0.333	0.244		mg/Kg		73	38 - 100	1	20
Methylphenol, 3 & 4			0.333	0.243		mg/Kg		73	40 - 100	2	20
Naphthalene			0.333	0.245		mg/Kg		73	38 - 100	3	20
Nitrobenzene			0.333	0.250		mg/Kg		75	34 - 100	4	20
Pentachlorophenol			0.667	0.511		mg/Kg		77	34 - 102	4	20
Phenanthrene			0.333	0.251		mg/Kg		75	41 - 100	2	20
Phenol			0.333	0.248		mg/Kg		74	36 - 100	1	20
Pyrene			0.333	0.258		mg/Kg		77	42 - 100	4	21
Pyridine			0.667	0.498		mg/Kg		75	25 - 119	1	20
2,4,5-Trichlorophenol			0.333	0.254		mg/Kg		76	42 - 100	2	22
2,4,6-Trichlorophenol			0.333	0.263		mg/Kg		79	41 - 103	1	25

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCSD 180-217195/3-A
Matrix: Solid
Analysis Batch: 217231

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 217195

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*72*		*42 - 100*
2-Fluorophenol (Surr)	*71*		*21 - 107*
Nitrobenzene-d5 (Surr)	*74*		*35 - 109*
Phenol-d5 (Surr)	*73*		*29 - 105*
Terphenyl-d14 (Surr)	*77*		*36 - 113*
2,4,6-Tribromophenol (Surr)	*79*		*20 - 134*

Lab Sample ID: MB 180-217309/1-A
Matrix: Solid
Analysis Batch: 217354

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 217309

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0067	0.0022	mg/Kg		07/18/17 03:38	07/18/17 10:30	1
Acenaphthylene	ND		0.0067	0.0023	mg/Kg		07/18/17 03:38	07/18/17 10:30	1
Anthracene	ND		0.0067	0.0025	mg/Kg		07/18/17 03:38	07/18/17 10:30	1
Benzo[a]anthracene	ND		0.0067	0.0026	mg/Kg		07/18/17 03:38	07/18/17 10:30	1
Benzo[a]pyrene	ND		0.0067	0.0028	mg/Kg		07/18/17 03:38	07/18/17 10:30	1
Benzo[b]fluoranthene	ND		0.0067	0.0029	mg/Kg		07/18/17 03:38	07/18/17 10:30	1
Benzo[g,h,i]perylene	ND		0.0067	0.0029	mg/Kg		07/18/17 03:38	07/18/17 10:30	1
Benzo[k]fluoranthene	ND		0.0067	0.0023	mg/Kg		07/18/17 03:38	07/18/17 10:30	1
Chrysene	ND		0.0067	0.0026	mg/Kg		07/18/17 03:38	07/18/17 10:30	1
Dibenz(a,h)anthracene	ND		0.0067	0.0028	mg/Kg		07/18/17 03:38	07/18/17 10:30	1
Dibenzofuran	ND		0.033	0.0027	mg/Kg		07/18/17 03:38	07/18/17 10:30	1
2,4-Dinitrotoluene	ND		0.033	0.0044	mg/Kg		07/18/17 03:38	07/18/17 10:30	1
1,4-Dioxane	ND		0.067	0.0050	mg/Kg		07/18/17 03:38	07/18/17 10:30	1
Fluoranthene	ND		0.0067	0.0026	mg/Kg		07/18/17 03:38	07/18/17 10:30	1
Fluorene	ND		0.0067	0.0024	mg/Kg		07/18/17 03:38	07/18/17 10:30	1
Hexachlorobenzene	ND		0.0067	0.0027	mg/Kg		07/18/17 03:38	07/18/17 10:30	1
Hexachlorobutadiene	ND		0.0067	0.0021	mg/Kg		07/18/17 03:38	07/18/17 10:30	1
Hexachloroethane	ND		0.033	0.0024	mg/Kg		07/18/17 03:38	07/18/17 10:30	1
Indeno[1,2,3-cd]pyrene	ND		0.0067	0.0026	mg/Kg		07/18/17 03:38	07/18/17 10:30	1
2-Methylphenol	ND		0.033	0.0029	mg/Kg		07/18/17 03:38	07/18/17 10:30	1
Methylphenol, 3 & 4	ND		0.033	0.0030	mg/Kg		07/18/17 03:38	07/18/17 10:30	1
Naphthalene	ND		0.0067	0.0024	mg/Kg		07/18/17 03:38	07/18/17 10:30	1
Nitrobenzene	ND		0.067	0.0025	mg/Kg		07/18/17 03:38	07/18/17 10:30	1
Pentachlorophenol	ND		0.17	0.063	mg/Kg		07/18/17 03:38	07/18/17 10:30	1
Phenanthrene	ND		0.0067	0.0028	mg/Kg		07/18/17 03:38	07/18/17 10:30	1
Phenol	ND		0.033	0.0045	mg/Kg		07/18/17 03:38	07/18/17 10:30	1
Pyrene	ND		0.0067	0.0030	mg/Kg		07/18/17 03:38	07/18/17 10:30	1
Pyridine	ND		0.033	0.0032	mg/Kg		07/18/17 03:38	07/18/17 10:30	1
2,4,5-Trichlorophenol	ND		0.033	0.0032	mg/Kg		07/18/17 03:38	07/18/17 10:30	1
2,4,6-Trichlorophenol	ND		0.033	0.0029	mg/Kg		07/18/17 03:38	07/18/17 10:30	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*68*		*42 - 100*	*07/18/17 03:38*	*07/18/17 10:30*	*1*
2-Fluorophenol (Surr)	*66*		*21 - 107*	*07/18/17 03:38*	*07/18/17 10:30*	*1*
Nitrobenzene-d5 (Surr)	*66*		*35 - 109*	*07/18/17 03:38*	*07/18/17 10:30*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: MB 180-217309/1-A
Matrix: Solid
Analysis Batch: 217354

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 217309

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Phenol-d5 (Surr)	*68*		*29 - 105*	*07/18/17 03:38*	*07/18/17 10:30*	*1*
Terphenyl-d14 (Surr)	*73*		*36 - 113*	*07/18/17 03:38*	*07/18/17 10:30*	*1*
2,4,6-Tribromophenol (Surr)	*71*		*20 - 134*	*07/18/17 03:38*	*07/18/17 10:30*	*1*

Lab Sample ID: LCS 180-217309/2-A
Matrix: Solid
Analysis Batch: 217354

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 217309

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	0.667	0.446		mg/Kg		67	39 - 100
Acenaphthylene	0.667	0.454		mg/Kg		68	42 - 100
Anthracene	0.667	0.471		mg/Kg		71	43 - 100
Benzo[a]anthracene	0.667	0.460		mg/Kg		69	43 - 100
Benzo[a]pyrene	0.667	0.459		mg/Kg		69	43 - 100
Benzo[b]fluoranthene	0.667	0.445		mg/Kg		67	40 - 100
Benzo[g,h,i]perylene	0.667	0.429		mg/Kg		64	41 - 102
Benzo[k]fluoranthene	0.667	0.458		mg/Kg		69	44 - 100
Chrysene	0.667	0.460		mg/Kg		69	44 - 100
Dibenz(a,h)anthracene	0.667	0.442		mg/Kg		66	40 - 104
Dibenzofuran	0.667	0.451		mg/Kg		68	42 - 100
2,4-Dinitrotoluene	0.667	0.495		mg/Kg		74	42 - 110
1,4-Dioxane	0.667	0.419		mg/Kg		63	19 - 107
Fluoranthene	0.667	0.483		mg/Kg		72	41 - 104
Fluorene	0.667	0.458		mg/Kg		69	41 - 100
Hexachlorobenzene	0.667	0.465		mg/Kg		70	43 - 100
Hexachlorobutadiene	0.667	0.442		mg/Kg		66	35 - 100
Hexachloroethane	0.667	0.438		mg/Kg		66	35 - 100
Indeno[1,2,3-cd]pyrene	0.667	0.444		mg/Kg		67	41 - 104
2-Methylphenol	0.667	0.456		mg/Kg		68	38 - 100
Methylphenol, 3 & 4	0.667	0.457		mg/Kg		69	40 - 100
Naphthalene	0.667	0.449		mg/Kg		67	38 - 100
Nitrobenzene	0.667	0.445		mg/Kg		67	34 - 100
Pentachlorophenol	1.33	0.884		mg/Kg		66	34 - 102
Phenanthrene	0.667	0.455		mg/Kg		68	41 - 100
Phenol	0.667	0.460		mg/Kg		69	36 - 100
Pyrene	0.667	0.465		mg/Kg		70	42 - 100
Pyridine	1.33	0.928		mg/Kg		70	25 - 119
2,4,5-Trichlorophenol	0.667	0.456		mg/Kg		68	42 - 100
2,4,6-Trichlorophenol	0.667	0.471		mg/Kg		71	41 - 103

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	*67*		*42 - 100*
2-Fluorophenol (Surr)	*69*		*21 - 107*
Nitrobenzene-d5 (Surr)	*66*		*35 - 109*
Phenol-d5 (Surr)	*69*		*29 - 105*
Terphenyl-d14 (Surr)	*72*		*36 - 113*
2,4,6-Tribromophenol (Surr)	*72*		*20 - 134*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: 180-68219-12 MS
Matrix: Solid
Analysis Batch: 217354

Client Sample ID: W6, S4, C 071317
Prep Type: Total/NA
Prep Batch: 217309

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	ND		0.724	0.585		mg/Kg	☼	81	39 - 100
Acenaphthylene	0.055		0.724	0.625		mg/Kg	☼	79	42 - 100
Anthracene	0.052		0.724	0.641		mg/Kg	☼	81	43 - 100
Benzo[a]anthracene	0.16		0.724	0.772		mg/Kg	☼	85	43 - 100
Benzo[a]pyrene	0.15		0.724	0.694		mg/Kg	☼	75	43 - 100
Benzo[b]fluoranthene	0.19		0.724	0.642		mg/Kg	☼	63	40 - 100
Benzo[g,h,i]perylene	0.16		0.724	0.833		mg/Kg	☼	93	41 - 102
Benzo[k]fluoranthene	0.073		0.724	0.609		mg/Kg	☼	74	44 - 100
Chrysene	0.16		0.724	0.746		mg/Kg	☼	80	44 - 100
Dibenz(a,h)anthracene	0.040		0.724	0.702		mg/Kg	☼	91	40 - 104
Dibenzofuran	0.020	J	0.724	0.602		mg/Kg	☼	80	42 - 100
2,4-Dinitrotoluene	ND		0.724	0.607		mg/Kg	☼	84	42 - 110
1,4-Dioxane	ND		0.724	0.418		mg/Kg	☼	58	19 - 107
Fluoranthene	0.22		0.724	0.775		mg/Kg	☼	76	41 - 104
Fluorene	0.011	J	0.724	0.587		mg/Kg	☼	80	41 - 100
Hexachlorobenzene	ND		0.724	0.604		mg/Kg	☼	83	43 - 100
Hexachlorobutadiene	ND		0.724	0.533		mg/Kg	☼	74	35 - 100
Hexachloroethane	ND		0.724	0.466		mg/Kg	☼	64	35 - 100
Indeno[1,2,3-cd]pyrene	0.13		0.724	0.792		mg/Kg	☼	92	41 - 104
2-Methylphenol	ND		0.724	0.506		mg/Kg	☼	70	38 - 100
Methylphenol, 3 & 4	ND		0.724	0.514		mg/Kg	☼	71	40 - 100
Naphthalene	0.053		0.724	0.570		mg/Kg	☼	71	38 - 100
Nitrobenzene	ND		0.724	0.529		mg/Kg	☼	73	34 - 100
Pentachlorophenol	ND		1.45	0.856		mg/Kg	☼	59	34 - 102
Phenanthrene	0.14		0.724	0.734		mg/Kg	☼	82	41 - 100
Phenol	ND		0.724	0.478		mg/Kg	☼	66	36 - 100
Pyrene	0.24		0.724	0.840		mg/Kg	☼	83	42 - 100
Pyridine	ND	F1	1.45	0.374		mg/Kg	☼	26	25 - 119
2,4,5-Trichlorophenol	ND		0.724	0.559		mg/Kg	☼	77	42 - 100
2,4,6-Trichlorophenol	ND		0.724	0.598		mg/Kg	☼	83	41 - 103

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl	*79*		*42 - 100*
2-Fluorophenol (Surr)	*62*		*21 - 107*
Nitrobenzene-d5 (Surr)	*71*		*35 - 109*
Phenol-d5 (Surr)	*65*		*29 - 105*
Terphenyl-d14 (Surr)	*78*		*36 - 113*
2,4,6-Tribromophenol (Surr)	*82*		*20 - 134*

Lab Sample ID: 180-68219-12 MSD
Matrix: Solid
Analysis Batch: 217354

Client Sample ID: W6, S4, C 071317
Prep Type: Total/NA
Prep Batch: 217309

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	ND		0.734	0.554		mg/Kg	☼	75	39 - 100	6	20
Acenaphthylene	0.055		0.734	0.599		mg/Kg	☼	74	42 - 100	4	20
Anthracene	0.052		0.734	0.612		mg/Kg	☼	76	43 - 100	5	20
Benzo[a]anthracene	0.16		0.734	0.721		mg/Kg	☼	77	43 - 100	7	20

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: 180-68219-12 MSD
Matrix: Solid
Analysis Batch: 217354

Client Sample ID: W6, S4, C 071317
Prep Type: Total/NA
Prep Batch: 217309

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzo[a]pyrene	0.15		0.734	0.679		mg/Kg	☼	72	43 - 100	2	20
Benzo[b]fluoranthene	0.19		0.734	0.638		mg/Kg	☼	61	40 - 100	1	20
Benzo[g,h,i]perylene	0.16		0.734	0.821		mg/Kg	☼	90	41 - 102	2	20
Benzo[k]fluoranthene	0.073		0.734	0.570		mg/Kg	☼	68	44 - 100	7	20
Chrysene	0.16		0.734	0.721		mg/Kg	☼	76	44 - 100	3	20
Dibenz(a,h)anthracene	0.040		0.734	0.675		mg/Kg	☼	86	40 - 104	4	26
Dibenzofuran	0.020	J	0.734	0.571		mg/Kg	☼	75	42 - 100	5	23
2,4-Dinitrotoluene	ND		0.734	0.584		mg/Kg	☼	80	42 - 110	4	21
1,4-Dioxane	ND		0.734	0.393		mg/Kg	☼	54	19 - 107	6	20
Fluoranthene	0.22		0.734	0.764		mg/Kg	☼	73	41 - 104	2	20
Fluorene	0.011	J	0.734	0.570		mg/Kg	☼	76	41 - 100	3	21
Hexachlorobenzene	ND		0.734	0.594		mg/Kg	☼	81	43 - 100	2	21
Hexachlorobutadiene	ND		0.734	0.507		mg/Kg	☼	69	35 - 100	5	20
Hexachloroethane	ND		0.734	0.446		mg/Kg	☼	61	35 - 100	4	20
Indeno[1,2,3-cd]pyrene	0.13		0.734	0.759		mg/Kg	☼	86	41 - 104	4	25
2-Methylphenol	ND		0.734	0.485		mg/Kg	☼	66	38 - 100	4	20
Methylphenol, 3 & 4	ND		0.734	0.512		mg/Kg	☼	70	40 - 100	1	20
Naphthalene	0.053		0.734	0.553		mg/Kg	☼	68	38 - 100	3	20
Nitrobenzene	ND		0.734	0.499		mg/Kg	☼	68	34 - 100	6	20
Pentachlorophenol	ND		1.47	0.820		mg/Kg	☼	56	34 - 102	4	20
Phenanthrene	0.14		0.734	0.711		mg/Kg	☼	78	41 - 100	3	20
Phenol	ND		0.734	0.468		mg/Kg	☼	64	36 - 100	2	20
Pyrene	0.24		0.734	0.874		mg/Kg	☼	87	42 - 100	4	21
Pyridine	ND	F1	1.47	0.312	F1	mg/Kg	☼	21	25 - 119	18	20
2,4,5-Trichlorophenol	ND		0.734	0.537		mg/Kg	☼	73	42 - 100	4	22
2,4,6-Trichlorophenol	ND		0.734	0.572		mg/Kg	☼	78	41 - 103	4	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl	*73*		*42 - 100*
2-Fluorophenol (Surr)	*58*		*21 - 107*
Nitrobenzene-d5 (Surr)	*66*		*35 - 109*
Phenol-d5 (Surr)	*63*		*29 - 105*
Terphenyl-d14 (Surr)	*78*		*36 - 113*
2,4,6-Tribromophenol (Surr)	*79*		*20 - 134*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 180-217194/1-A
Matrix: Solid
Analysis Batch: 217206

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 217194

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.017	0.0088	mg/Kg		07/16/17 13:30	07/17/17 07:09	1
PCB-1221	ND		0.017	0.0086	mg/Kg		07/16/17 13:30	07/17/17 07:09	1
PCB-1232	ND		0.017	0.0066	mg/Kg		07/16/17 13:30	07/17/17 07:09	1
PCB-1242	ND		0.017	0.013	mg/Kg		07/16/17 13:30	07/17/17 07:09	1
PCB-1248	ND		0.017	0.0080	mg/Kg		07/16/17 13:30	07/17/17 07:09	1
PCB-1254	ND		0.017	0.0073	mg/Kg		07/16/17 13:30	07/17/17 07:09	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: MB 180-217194/1-A
Matrix: Solid
Analysis Batch: 217206

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 217194

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1260	ND		0.017	0.011	mg/Kg		07/16/17 13:30	07/17/17 07:09	1
PCB-1262	ND		0.017	0.012	mg/Kg		07/16/17 13:30	07/17/17 07:09	1
PCB-1268	ND		0.017	0.0051	mg/Kg		07/16/17 13:30	07/17/17 07:09	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*99*		*23 - 150*	*07/16/17 13:30*	*07/17/17 07:09*	*1*
DCB Decachlorobiphenyl (Surr)	*105*		*23 - 150*	*07/16/17 13:30*	*07/17/17 07:09*	*1*
Tetrachloro-m-xylene (Surr)	*92*		*27 - 138*	*07/16/17 13:30*	*07/17/17 07:09*	*1*
Tetrachloro-m-xylene (Surr)	*93*		*27 - 138*	*07/16/17 13:30*	*07/17/17 07:09*	*1*

Lab Sample ID: LCS 180-217194/2-A
Matrix: Solid
Analysis Batch: 217206

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 217194

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			1.33	1.09		mg/Kg		82	52 - 126		
PCB-1260			1.33	1.20		mg/Kg		90	50 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*89*		*23 - 150*
DCB Decachlorobiphenyl (Surr)	*99*		*23 - 150*
Tetrachloro-m-xylene (Surr)	*91*		*27 - 138*
Tetrachloro-m-xylene (Surr)	*88*		*27 - 138*

Lab Sample ID: 180-68219-3 MS
Matrix: Solid
Analysis Batch: 217206

Client Sample ID: W6, S1, C 071317
Prep Type: Total/NA
Prep Batch: 217194

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016	ND		1.41	1.51		mg/Kg	☼	107	52 - 126		
PCB-1260	0.15		1.41	1.36		mg/Kg	☼	85	50 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*95*		*23 - 150*
DCB Decachlorobiphenyl (Surr)	*104*		*23 - 150*
Tetrachloro-m-xylene (Surr)	*83*		*27 - 138*
Tetrachloro-m-xylene (Surr)	*82*		*27 - 138*

Lab Sample ID: 180-68219-3 MSD
Matrix: Solid
Analysis Batch: 217206

Client Sample ID: W6, S1, C 071317
Prep Type: Total/NA
Prep Batch: 217194

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	ND		1.41	1.58		mg/Kg	☼	112	52 - 126	5	20
PCB-1260	0.15		1.41	1.37		mg/Kg	☼	86	50 - 130	0	21

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 180-68219-3 MSD
Matrix: Solid
Analysis Batch: 217206

Client Sample ID: W6, S1, C 071317
Prep Type: Total/NA
Prep Batch: 217194

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*91*		*23 - 150*
DCB Decachlorobiphenyl (Surr)	*102*		*23 - 150*
Tetrachloro-m-xylene (Surr)	*83*		*27 - 138*
Tetrachloro-m-xylene (Surr)	*82*		*27 - 138*

Lab Sample ID: MB 180-217313/1-C
Matrix: Solid
Analysis Batch: 217334

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 217313

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.017	0.0088	mg/Kg		07/18/17 03:42	07/18/17 10:26	1
PCB-1221	ND		0.017	0.0086	mg/Kg		07/18/17 03:42	07/18/17 10:26	1
PCB-1232	ND		0.017	0.0066	mg/Kg		07/18/17 03:42	07/18/17 10:26	1
PCB-1242	ND		0.017	0.013	mg/Kg		07/18/17 03:42	07/18/17 10:26	1
PCB-1248	ND		0.017	0.0080	mg/Kg		07/18/17 03:42	07/18/17 10:26	1
PCB-1254	ND		0.017	0.0073	mg/Kg		07/18/17 03:42	07/18/17 10:26	1
PCB-1260	ND		0.017	0.011	mg/Kg		07/18/17 03:42	07/18/17 10:26	1
PCB-1262	ND		0.017	0.012	mg/Kg		07/18/17 03:42	07/18/17 10:26	1
PCB-1268	ND		0.017	0.0051	mg/Kg		07/18/17 03:42	07/18/17 10:26	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*96*		*23 - 150*	*07/18/17 03:42*	*07/18/17 10:26*	*1*
DCB Decachlorobiphenyl (Surr)	*108*		*23 - 150*	*07/18/17 03:42*	*07/18/17 10:26*	*1*
Tetrachloro-m-xylene (Surr)	*93*		*27 - 138*	*07/18/17 03:42*	*07/18/17 10:26*	*1*
Tetrachloro-m-xylene (Surr)	*94*		*27 - 138*	*07/18/17 03:42*	*07/18/17 10:26*	*1*

Lab Sample ID: LCS 180-217313/2-C
Matrix: Solid
Analysis Batch: 217334

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 217313

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	1.33	0.961		mg/Kg		72	52 - 126
PCB-1260	1.33	0.923		mg/Kg		69	50 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*85*		*23 - 150*
DCB Decachlorobiphenyl (Surr)	*90*		*23 - 150*
Tetrachloro-m-xylene (Surr)	*79*		*27 - 138*
Tetrachloro-m-xylene (Surr)	*79*		*27 - 138*

Lab Sample ID: 180-68219-21 MS
Matrix: Solid
Analysis Batch: 217334

Client Sample ID: W7, S4, C 71317
Prep Type: Total/NA
Prep Batch: 217313

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	ND		1.44	1.45		mg/Kg	☼	100	52 - 126
PCB-1260	0.099		1.44	1.05		mg/Kg	☼	66	50 - 130

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 180-68219-21 MS
Matrix: Solid
Analysis Batch: 217334

Client Sample ID: W7, S4, C 71317
Prep Type: Total/NA
Prep Batch: 217313

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*71*		*23 - 150*
DCB Decachlorobiphenyl (Surr)	*77*		*23 - 150*
Tetrachloro-m-xylene (Surr)	*71*		*27 - 138*
Tetrachloro-m-xylene (Surr)	*69*		*27 - 138*

Lab Sample ID: 180-68219-21 MSD
Matrix: Solid
Analysis Batch: 217334

Client Sample ID: W7, S4, C 71317
Prep Type: Total/NA
Prep Batch: 217313

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	ND		1.45	1.67		mg/Kg	☼	115	52 - 126	15	20
PCB-1260	0.099		1.45	1.17		mg/Kg	☼	74	50 - 130	11	21

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*76*		*23 - 150*
DCB Decachlorobiphenyl (Surr)	*84*		*23 - 150*
Tetrachloro-m-xylene (Surr)	*81*		*27 - 138*
Tetrachloro-m-xylene (Surr)	*78*		*27 - 138*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 180-217374/1-A
Matrix: Solid
Analysis Batch: 217700

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 217374

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		1.0	0.44	mg/Kg		07/18/17 10:32	07/20/17 12:29	1
Barium	ND		20	5.4	mg/Kg		07/18/17 10:32	07/20/17 12:29	1
Beryllium	ND		0.40	0.10	mg/Kg		07/18/17 10:32	07/20/17 12:29	1
Cadmium	ND		0.50	0.11	mg/Kg		07/18/17 10:32	07/20/17 12:29	1
Chromium	ND		0.50	0.13	mg/Kg		07/18/17 10:32	07/20/17 12:29	1
Copper	ND		2.5	0.77	mg/Kg		07/18/17 10:32	07/20/17 12:29	1
Lead	ND		1.0	0.33	mg/Kg		07/18/17 10:32	07/20/17 12:29	1
Manganese	ND		1.5	0.41	mg/Kg		07/18/17 10:32	07/20/17 12:29	1
Nickel	ND		4.0	0.90	mg/Kg		07/18/17 10:32	07/20/17 12:29	1
Selenium	ND		1.0	0.40	mg/Kg		07/18/17 10:32	07/20/17 12:29	1
Silver	ND		0.50	0.17	mg/Kg		07/18/17 10:32	07/20/17 12:29	1
Zinc	ND		2.0	1.0	mg/Kg		07/18/17 10:32	07/20/17 12:29	1

Lab Sample ID: LCS 180-217374/2-A
Matrix: Solid
Analysis Batch: 217700

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 217374

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	50.0	51.0		mg/Kg		102	80 - 120
Barium	200	198		mg/Kg		99	80 - 120
Beryllium	5.00	5.03		mg/Kg		101	80 - 120
Cadmium	5.00	5.12		mg/Kg		102	80 - 120

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCS 180-217374/2-A
Matrix: Solid
Analysis Batch: 217700

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 217374

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium	20.0	19.4		mg/Kg		97	80 - 120
Copper	25.0	24.8		mg/Kg		99	80 - 120
Lead	50.0	48.7		mg/Kg		97	80 - 120
Manganese	50.0	49.2		mg/Kg		98	80 - 120
Nickel	50.0	50.6		mg/Kg		101	80 - 120
Selenium	50.0	50.3		mg/Kg		101	80 - 120
Silver	5.00	4.97		mg/Kg		99	80 - 120
Zinc	50.0	49.7		mg/Kg		99	80 - 120

Lab Sample ID: 180-68219-3 MS
Matrix: Solid
Analysis Batch: 217700

Client Sample ID: W6, S1, C 071317
Prep Type: Total/NA
Prep Batch: 217374

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	6.6		53.0	54.0		mg/Kg	☼	89	75 - 125
Barium	85		212	260		mg/Kg	☼	83	75 - 125
Beryllium	0.36	J	5.30	5.04		mg/Kg	☼	88	75 - 125
Cadmium	0.16	J	5.30	4.92		mg/Kg	☼	90	75 - 125
Chromium	9.1		21.2	28.6		mg/Kg	☼	92	75 - 125
Copper	20		26.5	44.7		mg/Kg	☼	91	75 - 125
Lead	31		53.0	76.5		mg/Kg	☼	86	75 - 125
Manganese	370		53.0	501	4	mg/Kg	☼	238	75 - 125
Nickel	17		53.0	69.0		mg/Kg	☼	98	75 - 125
Selenium	ND		53.0	46.4		mg/Kg	☼	88	75 - 125
Silver	ND		5.30	4.82		mg/Kg	☼	91	75 - 125
Zinc	69		53.0	111		mg/Kg	☼	80	75 - 125

Lab Sample ID: 180-68219-3 MSD
Matrix: Solid
Analysis Batch: 217700

Client Sample ID: W6, S1, C 071317
Prep Type: Total/NA
Prep Batch: 217374

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	6.6		51.9	49.8		mg/Kg	☼	83	75 - 125	8	20
Barium	85		208	250		mg/Kg	☼	79	75 - 125	4	20
Beryllium	0.36	J	5.19	4.80		mg/Kg	☼	86	75 - 125	5	20
Cadmium	0.16	J	5.19	4.56		mg/Kg	☼	85	75 - 125	8	20
Chromium	9.1		20.8	27.7		mg/Kg	☼	90	75 - 125	3	20
Copper	20		26.0	43.5		mg/Kg	☼	89	75 - 125	3	20
Lead	31		51.9	70.2		mg/Kg	☼	76	75 - 125	9	20
Manganese	370		51.9	427	4	mg/Kg	☼	101	75 - 125	16	20
Nickel	17		51.9	64.5		mg/Kg	☼	91	75 - 125	7	20
Selenium	ND		51.9	42.2		mg/Kg	☼	81	75 - 125	9	20
Silver	ND		5.19	4.35		mg/Kg	☼	84	75 - 125	10	20
Zinc	69		51.9	108		mg/Kg	☼	75	75 - 125	3	20

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 180-217423/1-A
Matrix: Solid
Analysis Batch: 217578

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 217423

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.033	0.0074	mg/Kg		07/18/17 14:51	07/19/17 12:32	1

Lab Sample ID: LCS 180-217423/2-A
Matrix: Solid
Analysis Batch: 217578

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 217423

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			0.417	0.454		mg/Kg		109	80 - 120		

Lab Sample ID: 180-68219-3 MS
Matrix: Solid
Analysis Batch: 217578

Client Sample ID: W6, S1, C 071317
Prep Type: Total/NA
Prep Batch: 217423

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury	0.12	F2	0.180	0.274		mg/Kg	☼	83	80 - 120		

Lab Sample ID: 180-68219-3 MSD
Matrix: Solid
Analysis Batch: 217578

Client Sample ID: W6, S1, C 071317
Prep Type: Total/NA
Prep Batch: 217423

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.12	F2	0.186	0.341	F2	mg/Kg	☼	116	80 - 120	22	20

Method: 2540G - SM 2540G

Lab Sample ID: 180-68219-3 DU
Matrix: Solid
Analysis Batch: 217173

Client Sample ID: W6, S1, C 071317
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	5.6			6.0		%				7	20
Percent Solids	94.4			94.0		%				0.4	20

Lab Sample ID: 180-68219-36 DU
Matrix: Solid
Analysis Batch: 217280

Client Sample ID: W8, S2, C 71317
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	10.0			10.2		%				2	20
Percent Solids	90.0			89.8		%				0.2	20

Lab Sample ID: 180-68219-12 DU
Matrix: Solid
Analysis Batch: 217297

Client Sample ID: W6, S4, C 071317
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	9.8			10.0		%				3	20
Percent Solids	90.2			90.0		%				0.3	20

Method: 2540G - SM 2540G (Continued)

Lab Sample ID: 180-68219-34 DU
Matrix: Solid
Analysis Batch: 217301

Client Sample ID: W8, S2, A 71317
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	9.8			11.1		%				12	20
Percent Moisture	9.8			11.1		%				12	20
Percent Solids	90.2			88.9		%				1	20
Percent Solids	90.2			88.9		%				1	20

Lab Sample ID: 180-68219-35 DU
Matrix: Solid
Analysis Batch: 217301

Client Sample ID: W8, S2, B 71317
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	10			9.5		%				5	20
Percent Moisture	10			9.5		%				5	20
Percent Solids	90.0			90.5		%				0.5	20
Percent Solids	90.0			90.5		%				0.5	20

Method: 9014 - Cyanide

Lab Sample ID: MB 180-217382/4-A
Matrix: Solid
Analysis Batch: 217445

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 217382

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.50	0.15	mg/Kg		07/18/17 10:56	07/18/17 14:05	1

Lab Sample ID: HLCS 180-217382/2-A
Matrix: Solid
Analysis Batch: 217445

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 217382

Analyte			Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cyanide, Total			0.250	0.248		mg/Kg		99	90 - 110		

Lab Sample ID: LCS 180-217382/3-A
Matrix: Solid
Analysis Batch: 217445

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 217382

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cyanide, Total			158	106		mg/Kg		67	38 - 162		

Lab Sample ID: LLCS 180-217382/1-A
Matrix: Solid
Analysis Batch: 217445

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 217382

Analyte			Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cyanide, Total			0.0500	0.0493		mg/Kg		99	90 - 110		

Method: 9014 - Cyanide (Continued)

Lab Sample ID: 180-68219-3 MS
Matrix: Solid
Analysis Batch: 217445

Client Sample ID: W6, S1, C 071317
Prep Type: Total/NA
Prep Batch: 217382

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	ND		4.77	4.73		mg/Kg	☼	99	75 - 125

Lab Sample ID: 180-68219-3 MSD
Matrix: Solid
Analysis Batch: 217445

Client Sample ID: W6, S1, C 071317
Prep Type: Total/NA
Prep Batch: 217382

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cyanide, Total	ND		4.82	4.67		mg/Kg	☼	97	75 - 125	1	20

Lab Sample ID: MB 180-217386/4-A
Matrix: Solid
Analysis Batch: 217445

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 217386

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.50	0.15	mg/Kg		07/18/17 10:56	07/18/17 14:58	1

Lab Sample ID: HLCS 180-217386/2-A
Matrix: Solid
Analysis Batch: 217445

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 217386

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.250	0.247		mg/Kg		99	90 - 110

Lab Sample ID: LCS 180-217386/3-A
Matrix: Solid
Analysis Batch: 217445

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 217386

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	158	108		mg/Kg		69	38 - 162

Lab Sample ID: LLCS 180-217386/1-A
Matrix: Solid
Analysis Batch: 217445

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 217386

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.0500	0.0501		mg/Kg		100	90 - 110

Lab Sample ID: 180-68219-30 MS
Matrix: Solid
Analysis Batch: 217445

Client Sample ID: W7, S1, C 71317
Prep Type: Total/NA
Prep Batch: 217386

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.42	J	5.13	5.50		mg/Kg	☼	99	75 - 125

Lab Sample ID: 180-68219-30 MSD
Matrix: Solid
Analysis Batch: 217445

Client Sample ID: W7, S1, C 71317
Prep Type: Total/NA
Prep Batch: 217386

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cyanide, Total	0.42	J	5.33	5.45		mg/Kg	☼	94	75 - 125	1	20

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Analysis Batch: 217209

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68219-37	W8, S3, A 71317	Total/NA	Solid	8260C	217220
180-68219-38	W8, S3, B 71317	Total/NA	Solid	8260C	217220
MB 180-217209/11	Method Blank	Total/NA	Solid	8260C	
LCS 180-217209/4	Lab Control Sample	Total/NA	Solid	8260C	
180-68219-38 MS	W8, S3, B 71317	Total/NA	Solid	8260C	217220
180-68219-38 MSD	W8, S3, B 71317	Total/NA	Solid	8260C	217220

Prep Batch: 217220

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68219-37	W8, S3, A 71317	Total/NA	Solid	5035	
180-68219-38	W8, S3, B 71317	Total/NA	Solid	5035	
180-68219-38 MS	W8, S3, B 71317	Total/NA	Solid	5035	
180-68219-38 MSD	W8, S3, B 71317	Total/NA	Solid	5035	

Analysis Batch: 217322

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68219-50	DUP-11	Total/NA	Solid	8260C	217331
180-68219-51	DUP-12	Total/NA	Solid	8260C	217331
180-68219-52	DUP-13	Total/NA	Solid	8260C	217331
MB 180-217322/9	Method Blank	Total/NA	Solid	8260C	
LCS 180-217322/4	Lab Control Sample	Total/NA	Solid	8260C	

Prep Batch: 217331

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68219-50	DUP-11	Total/NA	Solid	5035	
180-68219-51	DUP-12	Total/NA	Solid	5035	
180-68219-52	DUP-13	Total/NA	Solid	5035	

Analysis Batch: 217455

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68219-55	TRIP BLANK 1	Total/NA	Water	8260C	
180-68219-56	TRIP BLANK 2	Total/NA	Water	8260C	
180-68219-57	TRIP BLANK 3	Total/NA	Water	8260C	
180-68219-58	TRIP BLANK 4	Total/NA	Water	8260C	
MB 180-217455/5	Method Blank	Total/NA	Water	8260C	
LCS 180-217455/3	Lab Control Sample	Total/NA	Water	8260C	

Analysis Batch: 217471

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68219-1	W6, S1, A 071317	Total/NA	Solid	8260C	217488
180-68219-2	W6, S1, B 071317	Total/NA	Solid	8260C	217488
180-68219-4	W6, S2, A 071317	Total/NA	Solid	8260C	217488
180-68219-5	W6, S2, B 071317	Total/NA	Solid	8260C	217488
180-68219-7	W6, S3, A 071317	Total/NA	Solid	8260C	217488
180-68219-8	W6, S3, B 071317	Total/NA	Solid	8260C	217488
180-68219-10	W6, S4, A 071317	Total/NA	Solid	8260C	217488
180-68219-11	W6, S4, B 071317	Total/NA	Solid	8260C	217488
180-68219-20	W7, S4, B 71317	Total/NA	Solid	8260C	217488
180-68219-22	W7, S3, A 71317	Total/NA	Solid	8260C	217488
180-68219-23	W7, S3, B 71317	Total/NA	Solid	8260C	217488
180-68219-25	W7, S2, A 71317	Total/NA	Solid	8260C	217488

GC/MS VOA (Continued)

Analysis Batch: 217471 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68219-26	W7, S2, B 71317	Total/NA	Solid	8260C	217488
180-68219-28	W7, S1, A 71317	Total/NA	Solid	8260C	217488
180-68219-29	W7, S1, B 71317	Total/NA	Solid	8260C	217488
180-68219-31	W8, S1, A 71317	Total/NA	Solid	8260C	217488
180-68219-32	W8, S1, B 71317	Total/NA	Solid	8260C	217488
180-68219-35	W8, S2, B 71317	Total/NA	Solid	8260C	217488
180-68219-53	DUP-9	Total/NA	Solid	8260C	217488
MB 180-217471/9	Method Blank	Total/NA	Solid	8260C	
LCS 180-217471/4	Lab Control Sample	Total/NA	Solid	8260C	
180-68219-1 MS	W6, S1, A 071317	Total/NA	Solid	8260C	217488
180-68219-1 MSD	W6, S1, A 071317	Total/NA	Solid	8260C	217488

Prep Batch: 217488

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68219-1	W6, S1, A 071317	Total/NA	Solid	5035	
180-68219-2	W6, S1, B 071317	Total/NA	Solid	5035	
180-68219-4	W6, S2, A 071317	Total/NA	Solid	5035	
180-68219-5	W6, S2, B 071317	Total/NA	Solid	5035	
180-68219-7	W6, S3, A 071317	Total/NA	Solid	5035	
180-68219-8	W6, S3, B 071317	Total/NA	Solid	5035	
180-68219-10	W6, S4, A 071317	Total/NA	Solid	5035	
180-68219-11	W6, S4, B 071317	Total/NA	Solid	5035	
180-68219-20	W7, S4, B 71317	Total/NA	Solid	5035	
180-68219-22	W7, S3, A 71317	Total/NA	Solid	5035	
180-68219-23	W7, S3, B 71317	Total/NA	Solid	5035	
180-68219-25	W7, S2, A 71317	Total/NA	Solid	5035	
180-68219-26	W7, S2, B 71317	Total/NA	Solid	5035	
180-68219-28	W7, S1, A 71317	Total/NA	Solid	5035	
180-68219-29	W7, S1, B 71317	Total/NA	Solid	5035	
180-68219-31	W8, S1, A 71317	Total/NA	Solid	5035	
180-68219-32	W8, S1, B 71317	Total/NA	Solid	5035	
180-68219-35	W8, S2, B 71317	Total/NA	Solid	5035	
180-68219-53	DUP-9	Total/NA	Solid	5035	
180-68219-1 MS	W6, S1, A 071317	Total/NA	Solid	5035	
180-68219-1 MSD	W6, S1, A 071317	Total/NA	Solid	5035	

Analysis Batch: 217610

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68219-13	W6, S5, A 071317	Total/NA	Solid	8260C	217616
180-68219-14	W6, S5, B 071317	Total/NA	Solid	8260C	217616
180-68219-16	W7, S5, A 71317	Total/NA	Solid	8260C	217616
180-68219-17	W7, S5, B 71317	Total/NA	Solid	8260C	217616
180-68219-19	W7, S4, A 71317	Total/NA	Solid	8260C	217616
180-68219-34	W8, S2, A 71317	Total/NA	Solid	8260C	217616
MB 180-217610/9	Method Blank	Total/NA	Solid	8260C	
LCS 180-217610/4	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 180-217610/5	Lab Control Sample Dup	Total/NA	Solid	8260C	

Prep Batch: 217616

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68219-13	W6, S5, A 071317	Total/NA	Solid	5035	

GC/MS VOA (Continued)

Prep Batch: 217616 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68219-14	W6, S5, B 071317	Total/NA	Solid	5035	
180-68219-16	W7, S5, A 71317	Total/NA	Solid	5035	
180-68219-17	W7, S5, B 71317	Total/NA	Solid	5035	
180-68219-19	W7, S4, A 71317	Total/NA	Solid	5035	
180-68219-34	W8, S2, A 71317	Total/NA	Solid	5035	

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Prep Batch: 217139

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68219-3	W6, S1, C 071317	Total/NA	Solid	3541	
180-68219-6	W6, S2, C 071317	Total/NA	Solid	3541	
180-68219-15	W6, S5, C 071317	Total/NA	Solid	3541	
180-68219-18	W7, S5, C 71317	Total/NA	Solid	3541	
180-68219-24	W7, S3, C 71317	Total/NA	Solid	3541	
180-68219-27	W7, S2, C 71317	Total/NA	Solid	3541	
180-68219-30	W7, S1, C 71317	Total/NA	Solid	3541	
180-68219-33	W8, S1, C 71317	Total/NA	Solid	3541	
180-68219-36	W8, S2, C 71317	Total/NA	Solid	3541	
MB 180-217139/1-A	Method Blank	Total/NA	Solid	3541	
LCS 180-217139/2-A	Lab Control Sample	Total/NA	Solid	3541	
180-68219-3 MS	W6, S1, C 071317	Total/NA	Solid	3541	
180-68219-3 MSD	W6, S1, C 071317	Total/NA	Solid	3541	

Analysis Batch: 217155

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68219-3	W6, S1, C 071317	Total/NA	Solid	8270D LL	217139
MB 180-217139/1-A	Method Blank	Total/NA	Solid	8270D LL	217139
LCS 180-217139/2-A	Lab Control Sample	Total/NA	Solid	8270D LL	217139
180-68219-3 MS	W6, S1, C 071317	Total/NA	Solid	8270D LL	217139
180-68219-3 MSD	W6, S1, C 071317	Total/NA	Solid	8270D LL	217139

Prep Batch: 217195

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68219-9	W6, S3, C 071317	Total/NA	Solid	3541	
180-68219-39 - DL	W8, S3, C 71317	Total/NA	Solid	3541	
180-68219-39	W8, S3, C 71317	Total/NA	Solid	3541	
180-68219-54	DUP-10	Total/NA	Solid	3541	
MB 180-217195/1-A	Method Blank	Total/NA	Solid	3541	
LCS 180-217195/2-A	Lab Control Sample	Total/NA	Solid	3541	
LCSD 180-217195/3-A	Lab Control Sample Dup	Total/NA	Solid	3541	

Analysis Batch: 217231

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68219-9	W6, S3, C 071317	Total/NA	Solid	8270D LL	217195
180-68219-39	W8, S3, C 71317	Total/NA	Solid	8270D LL	217195
180-68219-54	DUP-10	Total/NA	Solid	8270D LL	217195
MB 180-217195/1-A	Method Blank	Total/NA	Solid	8270D LL	217195
LCS 180-217195/2-A	Lab Control Sample	Total/NA	Solid	8270D LL	217195
LCSD 180-217195/3-A	Lab Control Sample Dup	Total/NA	Solid	8270D LL	217195

GC/MS Semi VOA (Continued)

Analysis Batch: 217242

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68219-6	W6, S2, C 071317	Total/NA	Solid	8270D LL	217139
180-68219-15	W6, S5, C 071317	Total/NA	Solid	8270D LL	217139
180-68219-18	W7, S5, C 71317	Total/NA	Solid	8270D LL	217139
180-68219-24	W7, S3, C 71317	Total/NA	Solid	8270D LL	217139
180-68219-27	W7, S2, C 71317	Total/NA	Solid	8270D LL	217139
180-68219-30	W7, S1, C 71317	Total/NA	Solid	8270D LL	217139
180-68219-33	W8, S1, C 71317	Total/NA	Solid	8270D LL	217139
180-68219-36	W8, S2, C 71317	Total/NA	Solid	8270D LL	217139
MB 180-217139/1-A	Method Blank	Total/NA	Solid	8270D LL	217139

Prep Batch: 217309

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68219-12	W6, S4, C 071317	Total/NA	Solid	3541	
180-68219-21	W7, S4, C 71317	Total/NA	Solid	3541	
MB 180-217309/1-A	Method Blank	Total/NA	Solid	3541	
LCS 180-217309/2-A	Lab Control Sample	Total/NA	Solid	3541	
180-68219-12 MS	W6, S4, C 071317	Total/NA	Solid	3541	
180-68219-12 MSD	W6, S4, C 071317	Total/NA	Solid	3541	

Analysis Batch: 217354

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68219-12	W6, S4, C 071317	Total/NA	Solid	8270D LL	217309
180-68219-21	W7, S4, C 71317	Total/NA	Solid	8270D LL	217309
180-68219-39 - DL	W8, S3, C 71317	Total/NA	Solid	8270D LL	217195
MB 180-217309/1-A	Method Blank	Total/NA	Solid	8270D LL	217309
LCS 180-217309/2-A	Lab Control Sample	Total/NA	Solid	8270D LL	217309
180-68219-12 MS	W6, S4, C 071317	Total/NA	Solid	8270D LL	217309
180-68219-12 MSD	W6, S4, C 071317	Total/NA	Solid	8270D LL	217309

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Prep Batch: 217194

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68219-3	W6, S1, C 071317	Total/NA	Solid	3541	
180-68219-6	W6, S2, C 071317	Total/NA	Solid	3541	
180-68219-9	W6, S3, C 071317	Total/NA	Solid	3541	
180-68219-15	W6, S5, C 071317	Total/NA	Solid	3541	
180-68219-18	W7, S5, C 71317	Total/NA	Solid	3541	
180-68219-24	W7, S3, C 71317	Total/NA	Solid	3541	
180-68219-27	W7, S2, C 71317	Total/NA	Solid	3541	
180-68219-30	W7, S1, C 71317	Total/NA	Solid	3541	
180-68219-33	W8, S1, C 71317	Total/NA	Solid	3541	
180-68219-36	W8, S2, C 71317	Total/NA	Solid	3541	
180-68219-39	W8, S3, C 71317	Total/NA	Solid	3541	
180-68219-54	DUP-10	Total/NA	Solid	3541	
MB 180-217194/1-A	Method Blank	Total/NA	Solid	3541	
LCS 180-217194/2-A	Lab Control Sample	Total/NA	Solid	3541	
180-68219-3 MS	W6, S1, C 071317	Total/NA	Solid	3541	
180-68219-3 MSD	W6, S1, C 071317	Total/NA	Solid	3541	

GC Semi VOA (Continued)

Analysis Batch: 217206

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68219-3	W6, S1, C 071317	Total/NA	Solid	8082A	217333
180-68219-6	W6, S2, C 071317	Total/NA	Solid	8082A	217333
180-68219-9	W6, S3, C 071317	Total/NA	Solid	8082A	217333
180-68219-15	W6, S5, C 071317	Total/NA	Solid	8082A	217333
180-68219-18	W7, S5, C 71317	Total/NA	Solid	8082A	217333
180-68219-24	W7, S3, C 71317	Total/NA	Solid	8082A	217333
180-68219-30	W7, S1, C 71317	Total/NA	Solid	8082A	217333
180-68219-33	W8, S1, C 71317	Total/NA	Solid	8082A	217333
180-68219-36	W8, S2, C 71317	Total/NA	Solid	8082A	217333
180-68219-39	W8, S3, C 71317	Total/NA	Solid	8082A	217333
180-68219-54	DUP-10	Total/NA	Solid	8082A	217333
MB 180-217194/1-A	Method Blank	Total/NA	Solid	8082A	217194
LCS 180-217194/2-A	Lab Control Sample	Total/NA	Solid	8082A	217194
180-68219-3 MS	W6, S1, C 071317	Total/NA	Solid	8082A	217333
180-68219-3 MSD	W6, S1, C 071317	Total/NA	Solid	8082A	217333

Prep Batch: 217313

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68219-12	W6, S4, C 071317	Total/NA	Solid	3541	
180-68219-21	W7, S4, C 71317	Total/NA	Solid	3541	
MB 180-217313/1-C	Method Blank	Total/NA	Solid	3541	
LCS 180-217313/2-C	Lab Control Sample	Total/NA	Solid	3541	
180-68219-21 MS	W7, S4, C 71317	Total/NA	Solid	3541	
180-68219-21 MSD	W7, S4, C 71317	Total/NA	Solid	3541	

Cleanup Batch: 217332

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68219-3	W6, S1, C 071317	Total/NA	Solid	3665A	217194
180-68219-6	W6, S2, C 071317	Total/NA	Solid	3665A	217194
180-68219-9	W6, S3, C 071317	Total/NA	Solid	3665A	217194
180-68219-15	W6, S5, C 071317	Total/NA	Solid	3665A	217194
180-68219-18	W7, S5, C 71317	Total/NA	Solid	3665A	217194
180-68219-24	W7, S3, C 71317	Total/NA	Solid	3665A	217194
180-68219-27	W7, S2, C 71317	Total/NA	Solid	3665A	217194
180-68219-30	W7, S1, C 71317	Total/NA	Solid	3665A	217194
180-68219-33	W8, S1, C 71317	Total/NA	Solid	3665A	217194
180-68219-36	W8, S2, C 71317	Total/NA	Solid	3665A	217194
180-68219-39	W8, S3, C 71317	Total/NA	Solid	3665A	217194
180-68219-54	DUP-10	Total/NA	Solid	3665A	217194
180-68219-3 MS	W6, S1, C 071317	Total/NA	Solid	3665A	217194
180-68219-3 MSD	W6, S1, C 071317	Total/NA	Solid	3665A	217194

Cleanup Batch: 217333

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68219-3	W6, S1, C 071317	Total/NA	Solid	3660B	217332
180-68219-6	W6, S2, C 071317	Total/NA	Solid	3660B	217332
180-68219-9	W6, S3, C 071317	Total/NA	Solid	3660B	217332
180-68219-15	W6, S5, C 071317	Total/NA	Solid	3660B	217332
180-68219-18	W7, S5, C 71317	Total/NA	Solid	3660B	217332
180-68219-24	W7, S3, C 71317	Total/NA	Solid	3660B	217332
180-68219-27	W7, S2, C 71317	Total/NA	Solid	3660B	217332

GC Semi VOA (Continued)

Cleanup Batch: 217333 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68219-30	W7, S1, C 71317	Total/NA	Solid	3660B	217332
180-68219-33	W8, S1, C 71317	Total/NA	Solid	3660B	217332
180-68219-36	W8, S2, C 71317	Total/NA	Solid	3660B	217332
180-68219-39	W8, S3, C 71317	Total/NA	Solid	3660B	217332
180-68219-54	DUP-10	Total/NA	Solid	3660B	217332
180-68219-3 MS	W6, S1, C 071317	Total/NA	Solid	3660B	217332
180-68219-3 MSD	W6, S1, C 071317	Total/NA	Solid	3660B	217332

Analysis Batch: 217334

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68219-12	W6, S4, C 071317	Total/NA	Solid	8082A	217366
180-68219-21	W7, S4, C 71317	Total/NA	Solid	8082A	217366
180-68219-27	W7, S2, C 71317	Total/NA	Solid	8082A	217333
MB 180-217313/1-C	Method Blank	Total/NA	Solid	8082A	217366
LCS 180-217313/2-C	Lab Control Sample	Total/NA	Solid	8082A	217366
180-68219-21 MS	W7, S4, C 71317	Total/NA	Solid	8082A	217366
180-68219-21 MSD	W7, S4, C 71317	Total/NA	Solid	8082A	217366

Cleanup Batch: 217365

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68219-12	W6, S4, C 071317	Total/NA	Solid	3665A	217313
180-68219-21	W7, S4, C 71317	Total/NA	Solid	3665A	217313
MB 180-217313/1-C	Method Blank	Total/NA	Solid	3665A	217313
LCS 180-217313/2-C	Lab Control Sample	Total/NA	Solid	3665A	217313
180-68219-21 MS	W7, S4, C 71317	Total/NA	Solid	3665A	217313
180-68219-21 MSD	W7, S4, C 71317	Total/NA	Solid	3665A	217313

Cleanup Batch: 217366

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68219-12	W6, S4, C 071317	Total/NA	Solid	3660B	217365
180-68219-21	W7, S4, C 71317	Total/NA	Solid	3660B	217365
MB 180-217313/1-C	Method Blank	Total/NA	Solid	3660B	217365
LCS 180-217313/2-C	Lab Control Sample	Total/NA	Solid	3660B	217365
180-68219-21 MS	W7, S4, C 71317	Total/NA	Solid	3660B	217365
180-68219-21 MSD	W7, S4, C 71317	Total/NA	Solid	3660B	217365

Metals

Prep Batch: 217374

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68219-3	W6, S1, C 071317	Total/NA	Solid	3050B	
180-68219-6	W6, S2, C 071317	Total/NA	Solid	3050B	
180-68219-9	W6, S3, C 071317	Total/NA	Solid	3050B	
180-68219-12	W6, S4, C 071317	Total/NA	Solid	3050B	
180-68219-15	W6, S5, C 071317	Total/NA	Solid	3050B	
180-68219-18	W7, S5, C 71317	Total/NA	Solid	3050B	
180-68219-21	W7, S4, C 71317	Total/NA	Solid	3050B	
180-68219-24	W7, S3, C 71317	Total/NA	Solid	3050B	
180-68219-27	W7, S2, C 71317	Total/NA	Solid	3050B	
180-68219-30	W7, S1, C 71317	Total/NA	Solid	3050B	

Metals (Continued)

Prep Batch: 217374 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68219-33	W8, S1, C 71317	Total/NA	Solid	3050B	
180-68219-36	W8, S2, C 71317	Total/NA	Solid	3050B	
180-68219-39	W8, S3, C 71317	Total/NA	Solid	3050B	
180-68219-54	DUP-10	Total/NA	Solid	3050B	
MB 180-217374/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 180-217374/2-A	Lab Control Sample	Total/NA	Solid	3050B	
180-68219-3 MS	W6, S1, C 071317	Total/NA	Solid	3050B	
180-68219-3 MSD	W6, S1, C 071317	Total/NA	Solid	3050B	

Prep Batch: 217423

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68219-3	W6, S1, C 071317	Total/NA	Solid	7471B	
180-68219-6	W6, S2, C 071317	Total/NA	Solid	7471B	
180-68219-9	W6, S3, C 071317	Total/NA	Solid	7471B	
180-68219-12	W6, S4, C 071317	Total/NA	Solid	7471B	
180-68219-15	W6, S5, C 071317	Total/NA	Solid	7471B	
180-68219-18	W7, S5, C 71317	Total/NA	Solid	7471B	
180-68219-21	W7, S4, C 71317	Total/NA	Solid	7471B	
180-68219-24	W7, S3, C 71317	Total/NA	Solid	7471B	
180-68219-27	W7, S2, C 71317	Total/NA	Solid	7471B	
180-68219-30	W7, S1, C 71317	Total/NA	Solid	7471B	
180-68219-33	W8, S1, C 71317	Total/NA	Solid	7471B	
180-68219-36	W8, S2, C 71317	Total/NA	Solid	7471B	
180-68219-39	W8, S3, C 71317	Total/NA	Solid	7471B	
180-68219-54	DUP-10	Total/NA	Solid	7471B	
MB 180-217423/1-A	Method Blank	Total/NA	Solid	7471B	
LCS 180-217423/2-A	Lab Control Sample	Total/NA	Solid	7471B	
180-68219-3 MS	W6, S1, C 071317	Total/NA	Solid	7471B	
180-68219-3 MSD	W6, S1, C 071317	Total/NA	Solid	7471B	

Analysis Batch: 217578

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68219-3	W6, S1, C 071317	Total/NA	Solid	7471B	217423
180-68219-6	W6, S2, C 071317	Total/NA	Solid	7471B	217423
180-68219-9	W6, S3, C 071317	Total/NA	Solid	7471B	217423
180-68219-12	W6, S4, C 071317	Total/NA	Solid	7471B	217423
180-68219-15	W6, S5, C 071317	Total/NA	Solid	7471B	217423
180-68219-18	W7, S5, C 71317	Total/NA	Solid	7471B	217423
180-68219-21	W7, S4, C 71317	Total/NA	Solid	7471B	217423
180-68219-24	W7, S3, C 71317	Total/NA	Solid	7471B	217423
180-68219-27	W7, S2, C 71317	Total/NA	Solid	7471B	217423
180-68219-30	W7, S1, C 71317	Total/NA	Solid	7471B	217423
180-68219-33	W8, S1, C 71317	Total/NA	Solid	7471B	217423
180-68219-36	W8, S2, C 71317	Total/NA	Solid	7471B	217423
180-68219-39	W8, S3, C 71317	Total/NA	Solid	7471B	217423
180-68219-54	DUP-10	Total/NA	Solid	7471B	217423
MB 180-217423/1-A	Method Blank	Total/NA	Solid	7471B	217423
LCS 180-217423/2-A	Lab Control Sample	Total/NA	Solid	7471B	217423
180-68219-3 MS	W6, S1, C 071317	Total/NA	Solid	7471B	217423
180-68219-3 MSD	W6, S1, C 071317	Total/NA	Solid	7471B	217423

Metals (Continued)

Analysis Batch: 217700

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68219-3	W6, S1, C 071317	Total/NA	Solid	6010C	217374
180-68219-6	W6, S2, C 071317	Total/NA	Solid	6010C	217374
180-68219-9	W6, S3, C 071317	Total/NA	Solid	6010C	217374
180-68219-12	W6, S4, C 071317	Total/NA	Solid	6010C	217374
180-68219-15	W6, S5, C 071317	Total/NA	Solid	6010C	217374
180-68219-18	W7, S5, C 71317	Total/NA	Solid	6010C	217374
180-68219-21	W7, S4, C 71317	Total/NA	Solid	6010C	217374
180-68219-24	W7, S3, C 71317	Total/NA	Solid	6010C	217374
180-68219-27	W7, S2, C 71317	Total/NA	Solid	6010C	217374
180-68219-30	W7, S1, C 71317	Total/NA	Solid	6010C	217374
180-68219-33	W8, S1, C 71317	Total/NA	Solid	6010C	217374
180-68219-36	W8, S2, C 71317	Total/NA	Solid	6010C	217374
180-68219-39	W8, S3, C 71317	Total/NA	Solid	6010C	217374
180-68219-54	DUP-10	Total/NA	Solid	6010C	217374
MB 180-217374/1-A	Method Blank	Total/NA	Solid	6010C	217374
LCS 180-217374/2-A	Lab Control Sample	Total/NA	Solid	6010C	217374
180-68219-3 MS	W6, S1, C 071317	Total/NA	Solid	6010C	217374
180-68219-3 MSD	W6, S1, C 071317	Total/NA	Solid	6010C	217374

General Chemistry

Analysis Batch: 217173

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68219-2	W6, S1, B 071317	Total/NA	Solid	2540G	
180-68219-3	W6, S1, C 071317	Total/NA	Solid	2540G	
180-68219-4	W6, S2, A 071317	Total/NA	Solid	2540G	
180-68219-5	W6, S2, B 071317	Total/NA	Solid	2540G	
180-68219-3 DU	W6, S1, C 071317	Total/NA	Solid	2540G	

Analysis Batch: 217280

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68219-6	W6, S2, C 071317	Total/NA	Solid	2540G	
180-68219-9	W6, S3, C 071317	Total/NA	Solid	2540G	
180-68219-15	W6, S5, C 071317	Total/NA	Solid	2540G	
180-68219-18	W7, S5, C 71317	Total/NA	Solid	2540G	
180-68219-24	W7, S3, C 71317	Total/NA	Solid	2540G	
180-68219-27	W7, S2, C 71317	Total/NA	Solid	2540G	
180-68219-30	W7, S1, C 71317	Total/NA	Solid	2540G	
180-68219-33	W8, S1, C 71317	Total/NA	Solid	2540G	
180-68219-36	W8, S2, C 71317	Total/NA	Solid	2540G	
180-68219-39	W8, S3, C 71317	Total/NA	Solid	2540G	
180-68219-54	DUP-10	Total/NA	Solid	2540G	
180-68219-36 DU	W8, S2, C 71317	Total/NA	Solid	2540G	

Analysis Batch: 217297

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68219-1	W6, S1, A 071317	Total/NA	Solid	2540G	
180-68219-7	W6, S3, A 071317	Total/NA	Solid	2540G	
180-68219-8	W6, S3, B 071317	Total/NA	Solid	2540G	
180-68219-10	W6, S4, A 071317	Total/NA	Solid	2540G	

General Chemistry (Continued)

Analysis Batch: 217297 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68219-11	W6, S4, B 071317	Total/NA	Solid	2540G	
180-68219-12	W6, S4, C 071317	Total/NA	Solid	2540G	
180-68219-13	W6, S5, A 071317	Total/NA	Solid	2540G	
180-68219-14	W6, S5, B 071317	Total/NA	Solid	2540G	
180-68219-16	W7, S5, A 71317	Total/NA	Solid	2540G	
180-68219-17	W7, S5, B 71317	Total/NA	Solid	2540G	
180-68219-19	W7, S4, A 71317	Total/NA	Solid	2540G	
180-68219-20	W7, S4, B 71317	Total/NA	Solid	2540G	
180-68219-21	W7, S4, C 71317	Total/NA	Solid	2540G	
180-68219-22	W7, S3, A 71317	Total/NA	Solid	2540G	
180-68219-23	W7, S3, B 71317	Total/NA	Solid	2540G	
180-68219-25	W7, S2, A 71317	Total/NA	Solid	2540G	
180-68219-26	W7, S2, B 71317	Total/NA	Solid	2540G	
180-68219-28	W7, S1, A 71317	Total/NA	Solid	2540G	
180-68219-12 DU	W6, S4, C 071317	Total/NA	Solid	2540G	

Analysis Batch: 217301

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68219-29	W7, S1, B 71317	Total/NA	Solid	2540G	
180-68219-31	W8, S1, A 71317	Total/NA	Solid	2540G	
180-68219-32	W8, S1, B 71317	Total/NA	Solid	2540G	
180-68219-34	W8, S2, A 71317	Total/NA	Solid	2540G	
180-68219-35	W8, S2, B 71317	Total/NA	Solid	2540G	
180-68219-37	W8, S3, A 71317	Total/NA	Solid	2540G	
180-68219-38	W8, S3, B 71317	Total/NA	Solid	2540G	
180-68219-50	DUP-11	Total/NA	Solid	2540G	
180-68219-51	DUP-12	Total/NA	Solid	2540G	
180-68219-52	DUP-13	Total/NA	Solid	2540G	
180-68219-53	DUP-9	Total/NA	Solid	2540G	
180-68219-34 DU	W8, S2, A 71317	Total/NA	Solid	2540G	
180-68219-35 DU	W8, S2, B 71317	Total/NA	Solid	2540G	

Prep Batch: 217382

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68219-3	W6, S1, C 071317	Total/NA	Solid	9010C	
180-68219-6	W6, S2, C 071317	Total/NA	Solid	9010C	
180-68219-9	W6, S3, C 071317	Total/NA	Solid	9010C	
180-68219-12	W6, S4, C 071317	Total/NA	Solid	9010C	
180-68219-15	W6, S5, C 071317	Total/NA	Solid	9010C	
180-68219-18	W7, S5, C 71317	Total/NA	Solid	9010C	
180-68219-21	W7, S4, C 71317	Total/NA	Solid	9010C	
180-68219-24	W7, S3, C 71317	Total/NA	Solid	9010C	
180-68219-27	W7, S2, C 71317	Total/NA	Solid	9010C	
MB 180-217382/4-A	Method Blank	Total/NA	Solid	9010C	
HLCS 180-217382/2-A	Lab Control Sample	Total/NA	Solid	9010C	
LCS 180-217382/3-A	Lab Control Sample	Total/NA	Solid	9010C	
LLCS 180-217382/1-A	Lab Control Sample	Total/NA	Solid	9010C	
180-68219-3 MS	W6, S1, C 071317	Total/NA	Solid	9010C	
180-68219-3 MSD	W6, S1, C 071317	Total/NA	Solid	9010C	

General Chemistry (Continued)

Prep Batch: 217386

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68219-30	W7, S1, C 71317	Total/NA	Solid	9010C	
180-68219-33	W8, S1, C 71317	Total/NA	Solid	9010C	
180-68219-36	W8, S2, C 71317	Total/NA	Solid	9010C	
180-68219-39	W8, S3, C 71317	Total/NA	Solid	9010C	
180-68219-54	DUP-10	Total/NA	Solid	9010C	
MB 180-217386/4-A	Method Blank	Total/NA	Solid	9010C	
HLCS 180-217386/2-A	Lab Control Sample	Total/NA	Solid	9010C	
LCS 180-217386/3-A	Lab Control Sample	Total/NA	Solid	9010C	
LLCS 180-217386/1-A	Lab Control Sample	Total/NA	Solid	9010C	
180-68219-30 MS	W7, S1, C 71317	Total/NA	Solid	9010C	
180-68219-30 MSD	W7, S1, C 71317	Total/NA	Solid	9010C	

Analysis Batch: 217445

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68219-3	W6, S1, C 071317	Total/NA	Solid	9014	217382
180-68219-6	W6, S2, C 071317	Total/NA	Solid	9014	217382
180-68219-9	W6, S3, C 071317	Total/NA	Solid	9014	217382
180-68219-12	W6, S4, C 071317	Total/NA	Solid	9014	217382
180-68219-15	W6, S5, C 071317	Total/NA	Solid	9014	217382
180-68219-18	W7, S5, C 71317	Total/NA	Solid	9014	217382
180-68219-21	W7, S4, C 71317	Total/NA	Solid	9014	217382
180-68219-24	W7, S3, C 71317	Total/NA	Solid	9014	217382
180-68219-27	W7, S2, C 71317	Total/NA	Solid	9014	217382
180-68219-30	W7, S1, C 71317	Total/NA	Solid	9014	217386
180-68219-33	W8, S1, C 71317	Total/NA	Solid	9014	217386
180-68219-36	W8, S2, C 71317	Total/NA	Solid	9014	217386
180-68219-39	W8, S3, C 71317	Total/NA	Solid	9014	217386
180-68219-54	DUP-10	Total/NA	Solid	9014	217386
MB 180-217382/4-A	Method Blank	Total/NA	Solid	9014	217382
MB 180-217386/4-A	Method Blank	Total/NA	Solid	9014	217386
HLCS 180-217382/2-A	Lab Control Sample	Total/NA	Solid	9014	217382
HLCS 180-217386/2-A	Lab Control Sample	Total/NA	Solid	9014	217386
LCS 180-217382/3-A	Lab Control Sample	Total/NA	Solid	9014	217382
LCS 180-217386/3-A	Lab Control Sample	Total/NA	Solid	9014	217386
LLCS 180-217382/1-A	Lab Control Sample	Total/NA	Solid	9014	217382
LLCS 180-217386/1-A	Lab Control Sample	Total/NA	Solid	9014	217386
180-68219-3 MS	W6, S1, C 071317	Total/NA	Solid	9014	217382
180-68219-3 MSD	W6, S1, C 071317	Total/NA	Solid	9014	217382
180-68219-30 MS	W7, S1, C 71317	Total/NA	Solid	9014	217386
180-68219-30 MSD	W7, S1, C 71317	Total/NA	Solid	9014	217386

TestAmerica Pittsburgh
301 Alpha Drive RIDC Park
Pittsburgh, PA 15238
Phone (412) 963-7058 Fax (412) 963-2468

Chain of Custody Record

180-66219 Chain of Custody

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Alexandra Ambrosino	Lab PM: Dunlap, David A	COC No: 180-38494-8381.1
Client Contact: Ashwin Ranna,Aron Krasnopoler	Phone:	E-Mail: david.dunlap@testamericainc.com	Page: Page 1 of 6
Company: Geosyntec Consultants, Inc.			Job #:
Address: Penn Center West One, Suite 402 1 Penn Center West Drive	Due Date Requested:		
City: Pittsburgh	TAT Requested (days): 1 Day		
State, Zip: PA, 15276			
Phone:	PO #: MN0832B		
Email: aranna@geosyntec.com, Akrasnopoler@geosyntec.com	WO #:		
Project Name: Former Sperry Remington Site - North IRM	Project #: 18013464		
Site: Elmira	SSOW#:		

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - VOA-Select List	6010C, 7471B, 9014 - Select ICP Metals, Mercury, Cyanide	8082A, 8270D, PCBs, Select BNA	8260C - VOA-Select List (Trip Blanks only)	Total Number of containers	Special Instructions/Note:
			Preservation Code:		N	N	N	N	N	A		
W6,S1,A 71317	7.13.2017	800	G	Solid	N	Y	X				12	Perform MS MSD 4
W6,S1,B 71317	7.13.2017	805	G	Solid	N	N	X				4	
W6,S1,C 71317	7.13.2017	810	C	Solid	N	Y		X	X		6	Perform MS/MSD 5
W6,S2,A 71317	7.13.2017	820	G	Solid	N	N	X				4	
W6,S2,B 71317	7.13.2017	825	G	Solid	N	N	X			Trip Blank B	4	Rush
W6,S2,C 71317	7.13.2017	830	C	Solid	N	N		X	X		2	
W6,S3,A 71317	7.13.2017	845	G	Solid	N	N	X				4	
W6,S3,B 71317	7.13.2017	850	G	Solid	N	N	X				4	
W6,S3,C 71317	7.13.2017	855	C	Solid	N	N		X	X		2	
W6,S4,A 71317	7.13.2017	915	G	Solid	N	N	X				4	
W6,S4,B 71317	7.13.2017	920	G	Solid	N	N	X				4	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 7/14/17 930	Company TAP
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

Page 129 of 136

7/27/2017

TestAmerica Pittsburgh
301 Alpha Drive RIDC Park
Pittsburgh, PA 15238
Phone (412) 963-7058 Fax (412) 963-2468

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Alexandra Ambrosino	Lab PM: Dunlap, David A	Carrier Tracking No(s):	COC No: 180-38494-8381.1
Client Contact: Ashwin Ranna,Aron Krasnopoler	Phone:	E-Mail: david.dunlap@testamericainc.com		Page: Page 2 of 6
Company: Geosyntec Consultants, Inc.				Job #:

Address: Penn Center West One, Suite 402 1 Penn Center West Drive	Due Date Requested:
City: Pittsburgh	TAT Requested (days):
State, Zip: PA, 15276	
Phone:	PO #: MN0832B
Email: aranna@geosyntec.com, Akrasnopoler@geosyntec.com	WO #:
Project Name: Former Sperry Remington Site - North IRM	Project #: 18013464
Site: Elmira	SSOW#:

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - VOA-Select List	6010C, 7471B, 9014 - Select ICP Metals, Mercury, Cyanide	8082A, 8270D, PCBs, Select BNA	8260C - VOA-Select List (Trip Blanks only)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	A		
W6S4,C 71317	71317	925	C	Solid	N			X	X	Trip Blank 3	2	
W6S,5A 71317	7.13.2017	945	G	Solid	N		X				4	
W6S5B 71317	7.13.2017	955	G	Solid	N		X				4	
W6S5C 71317	7.13.2017	1000	C	Solid	N			X	X		2	Rush
W7S5A 71317	7.13.2017	1015	G	Solid	N		X				4	
W7S5,B 71317	7.13.2017	1020	G	Solid	N		X				4	
W7,S5C 71317	7.13.2017	1025	C	Solid	N			X	X	Trip Blank 4	2	
W7,S4A 71317	7.13.2017	1045	G	Solid	N		X				4	
W7,S4,B,71317	7.13.2017	1050	G	Solid	N		X				4	
W7,S4C 71317	7.13.2017	1055	C	Solid	N			X	X		2	
W7,S3,A 71317	7.13.2017	1120	G	Solid	N		X				4	✓

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
				7/14/17 930	TAA
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

7/27/2017

TestAmerica Pittsburgh
301 Alpha Drive RIDC Park
Pittsburgh, PA 15238
Phone (412) 963-7058 Fax (412) 963-2468

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Alexandra Ambrosino	Lab PM: Dunlap, David A	Carrier Tracking No(s):	COC No: 180-38494-8381.1
Client Contact: Ashwin Ranna,Aron Krasnopoler	Phone:	E-Mail: david.dunlap@testamericainc.com		Page: Page 3 of 6
Company: Geosyntec Consultants, Inc.				Job #:
Address: Penn Center West One, Suite 402 1 Penn Center West Drive	Due Date Requested:			
City: Pittsburgh	TAT Requested (days):			
State, Zip: PA, 15276				
Phone:	PO #: MN0832B			
Email: aranna@geosyntec.com, Akrasnopoler@geosyntec.com	WO #:			
Project Name: Former Sperry Remington Site - North IRM	Project #: 18013464			
Site: Elmirap	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - VOA-Select List	6010C, 7471B, 9014 - Select ICP Metals, Mercury, Cyanide	8082A, 8270D, PCBs, Select BNA	8260C - VOA-Select List (Trip Blanks only)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	A		
W7,S3,B 71317	7.13.2017	1135	G	Solid	N		X				4	
W7,S3,C 71317	7.13.2017	1140	C	Solid	N			X	X		2	
W7,S2,A 71317	7.13.2017	1155	G	Solid	N		X				4	Trip Blank 4
W7,S2,B 71317	7.13.2017	1200	G	Solid	N		X				4	
W7,S2,C 71317	7.13.2017	1205	C	Solid	N			X	X		2	Rush
W7,S1,A 71317	7.13.2017	1215	G	Solid	N		X				4	
W7,S1,B 71317	7.13.2017	1220	G	Solid	N		X				4	
W7,S1,C 71317	7.13.2017	1225	C	Solid	N			X	X		2	
W8,S1,A 71317	7.13.2017	1245	G	Solid	N		X				4	
W8,S1 B 71317	7.13.2017	1250	G	Solid	N		X				4	
W8,S1,C 71317	7.13.2017	1255	C	Solid	N			X	X		2	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
				7/14/17 930	TAP
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

TestAmerica Pittsburgh
301 Alpha Drive RIDC Park
Pittsburgh, PA 15238
Phone (412) 963-7058 Fax (412) 963-2468

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Alexandra Ambrosino	Lab PM: Dunlap, David A	Carrier Tracking No(s):	COC No: 180-38494-8381.1
Client Contact: Ashwin Ranna,Aron Krasnopoler	Phone:	E-Mail: david.dunlap@testamericainc.com		Page: Page 1 of 6
Company: Geosyntec Consultants, Inc.				Job #:

Address: Penn Center West One, Suite 402 1 Penn Center West Drive	Due Date Requested:
City: Pittsburgh	TAT Requested (days):
State, Zip: PA, 15276	
Phone:	PO #: MN0832B
Email: aranna@geosyntec.com, Akrasnopoler@geosyntec.com	WO #:
Project Name: Former Sperry Remington Site - North IRM	Project #: 18013464
Site: Elmira	SSOW#:

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - VOA-Select List	6010C, 7471B, 9014 - Select ICP Metals, Mercury, Cyanide	8082A, 8270D, PCBs, Select BNA	8260C - VOA-Select List (Trip Blanks only)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	A		
W8,S2,A 71317	7.13.2017	1315	G	Solid	N		X				4	
W8,S2,B 71317	7.13.2017	1320	G	Solid	N		X				4	
W8,S2C 71317	7.13.2017	1325	C	Solid	N			X	X		2	
W8,S3,A 71317	7.13.2017	1345	G	Solid	N		X				4	
W8,S3,B 71317	7.13.2017	1350	G	Solid	N	Y	X				12	Rush
W8,S3,C 71317	7.13.2017	1355	C	Solid	N			X	X		2	
W4,S1,A 71317	7.13.2017	1415	G	Solid	N		X				4	
W4,S1,B 71317	7.13.2017	1420	G	Solid	N		X				4	
W4,S1,C 71317	7.13.2017		C	Solid	N			X	X		2	
W4,S2,A 71317	7.13.2017	1445	G	Solid	N		X				4	
W4,S2,B 71317	7.13.2017	1450	G	Solid	N		X				4	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 7/14/17 930	Company TAP
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

7/27/2017

TestAmerica Pittsburgh
301 Alpha Drive RIDC Park
Pittsburgh, PA 15238
Phone (412) 963-7058 Fax (412) 963-2468

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Alexandra Ambrosino	Lab PM: Dunlap, David A	Carrier Tracking No(s):	COC No: 180-38494-8381.1
Client Contact: Ashwin Ranna,Aron Krasnopoler	Phone:	E-Mail: david.dunlap@testamericainc.com		Page: Page 5 of 6
Company: Geosyntec Consultants, Inc.				Job #:

Address: Penn Center West One, Suite 402 1 Penn Center West Drive	Due Date Requested:	Analysis Requested	Preservation Codes:
City: Pittsburgh	TAT Requested (days): 1 Day		A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify) Other:
State, Zip: PA, 15276			
Phone:	PO #: MN0832B		
Email: aranna@geosyntec.com, Akrasnopoler@geosyntec.com	WO #:		
Project Name: Former Sperry Remington Site - North IRM	Project #: 18013464		
Site: Elmira	SSOW#:		

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - VOA-Select List	6010C, 7471B, 9014 - Select ICP Metals, Mercury, Cyanide	8082A, 8270D, PCBs, Select BNA	8260C - VOA-Select List (Trip Blanks only)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	A		
~~W4,S3,C 71317~~				Solid								
W4,S4,A 71317	7.13.2017	1515	G	Solid	N	Y	X				12	Perform MS MSD67
W4,S4,B 71317	7.13.2017	1520	G	Solid	N	N	X				4	
W4,S5,A 71317	7.13.2017	1545	G	Solid	N	N	X	*			4	
W4,S5,B 71317	7.13.2017	1550	G	Solid	N	N	X				4	
W4,S2,A 71317	7.13.2017	1600	G	Solid	N	N	X				4	
W4,S3,B 71317	7.13.2017	1605	G	Solid	N	N	X				4	
DUP-11	7.13.2017	—	G	Solid	N	N	X				4	
DUP-12	7.13.2017	—	G	Solid	N	N	X				4	
DUP-13	7.13.2017	—	G	Solid	N	N	X				4	
DUP-9	7.13.2017	—	G	Solid	N	N	X				4	

Rush

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
				7/14/17 930	TAP
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

7/27/2017

TestAmerica Pittsburgh
301 Alpha Drive RIDC Park
Pittsburgh, PA 15238
Phone (412) 963-7058 Fax (412) 963-2468

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Alexandra Ambrosino	Lab PM: Dunlap, David A	Carrier Tracking No(s):	COC No: 180-38494-8381.1
Client Contact: Ashwin Ranna,Aron Krasnopoler	Phone:	E-Mail: david.dunlap@testamericainc.com		Page: Page 6 of 6
Company: Geosyntec Consultants, Inc.				Job #:

Address: Penn Center West One, Suite 402 1 Penn Center West Drive	Due Date Requested:
City: Pittsburgh	TAT Requested (days):
State, Zip: PA, 15276	
Phone:	PO #: MN0832B
Email: aranna@geosyntec.com, Akrasnopoler@geosyntec.com	WO #:
Project Name: Former Sperry Remington Site - North IRM	Project #: 18013464
Site: Elmira	SSOW#:

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - VOA-Select List	6010C, 7471B, 9014 - Select ICP Metals, Mercury, Cyanide	8082A, 8270D, PCBs, Select BNA	8260C - VOA-Select List (Trip Blanks only)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	A		
DUP-10	7.13.2017	—	C	Solid	N	N		X	X		4	Rush
Trip Blank 1	—	—	—	~~W~~ Solid	N	N				X	2	
Trip Blank 2	←	—	—	~~W~~ Solid	N	N				X	2	
Trip Blank 3	—	—	—	~~W~~ Solid	N	N				X	2	
				Solid								
				Solid								
				Solid								
				Solid								
				Solid								
				Solid								
				Solid								

Possible Hazard Identification
☐ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* ☐ *Poison B* ☐ *Unknown* ☐ *Radiological*

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For _____ Months*

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Date/Time:	Company	Received by:	Date/Time:	Company
				7/14/17 930	TAP
	Date/Time:	Company	Received by:	Date/Time:	Company
	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks:

7/27/2017

TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
phone 412.963.7058 fax 412.963.2468

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☑ Other: Ashwin Ranra

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Aron Krasnopoler	Site Contact: ~~Jay Thompson~~	Date: 7.14.2017	COC No: 1 of 1
Geosyntec Consultants	Tel/Fax: 401-381-4333	Lab Contact: Dave Dunlap	Carrier: FedEx	1 of 1 COCs
10211 Wincopin Circle, 4th Floor	Analysis Turnaround Time			Sampler: ARA/AT
Columbia, MD 21044	☐ CALENDAR DAYS ☑ WORKING DAYS			For Lab Use Only:
410-381-4333 Phone	TAT if different from Below _____			Walk-in Client:
410-381-4499 FAX	☐ 2 weeks			Sampling:
Project Name: Former Sperry Remington Site - North	☐ 1 week			
Site: Elmira	☐ 2 days			/ SDG No.:
P O # MN0832B	☑ 1 day			

180-68219-02 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	PCBs - 8082A	~~VOCs - 8260B~~ 8260C/624B	~~TCLP Lead~~ 6010C/7470A	Sample Specific Notes:
W6,S3,C 71317	7.13.2017	855	C	S	2	N	~~N~~	X	X	X	Bottles off from previous COC
MSD-5 [W6,S1,C(713,17)]	7.13.2017	810	C	S	1	N	N	X	X	X	
W6,S2,C 71317	7.13.2017	830	C	S	1	N	N	X	X	X	
W6,S1,G,71317	7.13.2017	810	C	S	1	N	N	X	X	X	
W6,S1,C (MS-5) 7B17	7.13.2017	810	C	S	1	N	N	X	X	X	

Rush

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd: _____ Corr'd: _____		Therm ID No.: _____
Relinquished by: Jay Thompson	Company: Geosyntec	Date/Time: 7.14.2017	Received by:	Company: TAP	Date/Time: 7/14/17 915
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Form No. CA-C-WI-002, Rev. 4.3, dated 12/05/2013

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 180-68219-1

Login Number: 68219
List Number: 1
Creator: Kovitch, Christina M

List Source: TestAmerica Pittsburgh

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	False	not relinquished by client
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
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TestAmerica Job ID: 180-68509-1
Client Project/Site: Former Sperry Remington Site - North IRM

For:
Geosyntec Consultants, Inc.
10211 Wincopin Circle
4'th Floor
Columbia, Maryland 21044

Attn: Mr. Aron Krasnopoler

Authorized for release by:
7/28/2017 4:37:35 PM

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Results relate only to the items tested and the sample(s) as received by the laboratory.

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Job ID: 180-68509-1

Laboratory: TestAmerica Pittsburgh

Narrative

Job Narrative
180-68509-1

Receipt
The samples were received on 7/25/2017 9:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 2.6º C, 4.1º C and 4.4º C.

GC/MS VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC/MS Semi VOA
Method(s) 8270D LL: The following samples were diluted due to the nature of the sample matrix (viscous extracts): WB 7-8, S2, C 072417 (180-68509-6), W9, S1, C 072417 (180-68509-15), and DUP 14 (180-68509-24). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc. TestAmerica Job ID: 180-68509-1
Project/Site: Former Sperry Remington Site - North IRM

Laboratory: TestAmerica Pittsburgh

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	11182	03-31-18

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
2540G		Solid	Percent Moisture
2540G		Solid	Percent Solids
8270D LL	3541	Solid	1,4-Dioxane

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68509-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-68509-1	WB 7-8, S1, A 072417	Solid	07/24/17 10:05	07/25/17 09:15
180-68509-2	WB 7-8, S1, B 072417	Solid	07/24/17 10:10	07/25/17 09:15
180-68509-3	WB 7-8, S1, C 072417	Solid	07/24/17 10:20	07/25/17 09:15
180-68509-4	WB 7-8, S2, A 072417	Solid	07/24/17 10:45	07/25/17 09:15
180-68509-5	WB 7-8, S2, B 072417	Solid	07/24/17 10:50	07/25/17 09:15
180-68509-6	WB 7-8, S2, C 072417	Solid	07/24/17 10:55	07/25/17 09:15
180-68509-7	WB 7-8, S3, A 072417	Solid	07/24/17 11:10	07/25/17 09:15
180-68509-8	WB 7-8, S3, B 072417	Solid	07/24/17 11:20	07/25/17 09:15
180-68509-9	WB 7-8, S3, C 072417	Solid	07/24/17 11:30	07/25/17 09:15
180-68509-10	WB 7-8, S4, A 072417	Solid	07/24/17 12:05	07/25/17 09:15
180-68509-11	WB 7-8, S4, B 072417	Solid	07/24/17 12:10	07/25/17 09:15
180-68509-12	WB 7-8, S4, C 072417	Solid	07/24/17 12:15	07/25/17 09:15
180-68509-13	W9, S1, A 072417	Solid	07/24/17 13:10	07/25/17 09:15
180-68509-14	W9, S1, B 072417	Solid	07/24/17 13:15	07/25/17 09:15
180-68509-15	W9, S1, C 072417	Solid	07/24/17 13:20	07/25/17 09:15
180-68509-22	TRIP BLANK	Water	07/24/17 00:00	07/25/17 09:15
180-68509-23	DUP 15	Solid	07/24/17 00:00	07/25/17 09:15
180-68509-24	DUP 14	Solid	07/24/17 00:00	07/25/17 09:15

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68509-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL PIT
8260C	Volatile Organic Compounds (GC/MS)	SW846	TAL PIT
8270D LL	Semivolatile Organic Compounds by GC/MS - Low Level	SW846	TAL PIT
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL PIT
6010C	Metals (ICP)	SW846	TAL PIT
7471B	Mercury (CVAA)	SW846	TAL PIT
2540G	SM 2540G	SM22	TAL PIT
9014	Cyanide	SW846	TAL PIT

Protocol References:

SM22 = SM22

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68509-1

Client Sample ID: WB 7-8, S1, A 072417
Lab Sample ID: 180-68509-1
Date Collected: 07/24/17 10:05
Matrix: Solid
Date Received: 07/25/17 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218069	07/25/17 15:39	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: WB 7-8, S1, A 072417
Lab Sample ID: 180-68509-1
Date Collected: 07/24/17 10:05
Matrix: Solid
Date Received: 07/25/17 09:15
Percent Solids: 78.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.7664 g	5 mL	218110	07/26/17 05:40	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	218103	07/26/17 16:12	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: WB 7-8, S1, B 072417
Lab Sample ID: 180-68509-2
Date Collected: 07/24/17 10:10
Matrix: Solid
Date Received: 07/25/17 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218069	07/25/17 15:39	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: WB 7-8, S1, B 072417
Lab Sample ID: 180-68509-2
Date Collected: 07/24/17 10:10
Matrix: Solid
Date Received: 07/25/17 09:15
Percent Solids: 70.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.4722 g	5 mL	218110	07/26/17 05:40	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	218103	07/26/17 16:35	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: WB 7-8, S1, C 072417
Lab Sample ID: 180-68509-3
Date Collected: 07/24/17 10:20
Matrix: Solid
Date Received: 07/25/17 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218069	07/25/17 15:39	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: WB 7-8, S1, C 072417
Lab Sample ID: 180-68509-3
Date Collected: 07/24/17 10:20
Matrix: Solid
Date Received: 07/25/17 09:15
Percent Solids: 73.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	0.5 mL	218278	07/27/17 11:21	MAL	TAL PIT

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68509-1

Client Sample ID: WB 7-8, S1, C 072417

Lab Sample ID: 180-68509-3
Date Collected: 07/24/17 10:20
Matrix: Solid
Date Received: 07/25/17 09:15
Percent Solids: 73.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8270D LL		1	1 mL	1 mL	218265	07/27/17 20:25	VVP	TAL PIT
	Instrument ID: CH732									
Total/NA	Prep	3541			15.1 g	20.0 mL	218112	07/26/17 08:33	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	218177	07/26/17 13:57	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	218178	07/26/17 13:58	JMO	TAL PIT
Total/NA	Analysis	8082A		1			218100	07/27/17 00:48	JMO	TAL PIT
	Instrument ID: CHGC16									
Total/NA	Prep	3050B			0.98 g	100 mL	218293	07/27/17 12:44	CRM	TAL PIT
Total/NA	Analysis	6010C		1			218421	07/28/17 08:45	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.60 g	100 mL	218097	07/26/17 05:04	RJR	TAL PIT
Total/NA	Analysis	7471B		1			218142	07/26/17 09:20	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.01 g	50 mL	218282	07/27/17 11:19	JAS	TAL PIT
Total/NA	Analysis	9014		1			218335	07/27/17 14:49	JAS	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: WB 7-8, S2, A 072417

Lab Sample ID: 180-68509-4
Date Collected: 07/24/17 10:45
Matrix: Solid
Date Received: 07/25/17 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218069	07/25/17 15:39	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: WB 7-8, S2, A 072417

Lab Sample ID: 180-68509-4
Date Collected: 07/24/17 10:45
Matrix: Solid
Date Received: 07/25/17 09:15
Percent Solids: 79.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.8871 g	5 mL	218110	07/26/17 05:40	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	218103	07/26/17 16:58	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: WB 7-8, S2, B 072417

Lab Sample ID: 180-68509-5
Date Collected: 07/24/17 10:50
Matrix: Solid
Date Received: 07/25/17 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218069	07/25/17 15:39	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68509-1

Client Sample ID: WB 7-8, S2, B 072417
Date Collected: 07/24/17 10:50
Date Received: 07/25/17 09:15

Lab Sample ID: 180-68509-5
Matrix: Solid
Percent Solids: 74.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.683 g	5 mL	218236	07/27/17 05:30	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	218225	07/27/17 12:26	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: WB 7-8, S2, C 072417
Date Collected: 07/24/17 10:55
Date Received: 07/25/17 09:15

Lab Sample ID: 180-68509-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218069	07/25/17 15:39	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: WB 7-8, S2, C 072417
Date Collected: 07/24/17 10:55
Date Received: 07/25/17 09:15

Lab Sample ID: 180-68509-6
Matrix: Solid
Percent Solids: 72.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	0.5 mL	218278	07/27/17 11:21	MAL	TAL PIT
Total/NA	Analysis	8270D LL		2	1 mL	1 mL	218265	07/27/17 20:52	VVP	TAL PIT
	Instrument ID: CH732									
Total/NA	Prep	3541			15.3 g	20.0 mL	218112	07/26/17 08:33	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	218177	07/26/17 13:57	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	218178	07/26/17 13:58	JMO	TAL PIT
Total/NA	Analysis	8082A		1			218100	07/27/17 01:09	JMO	TAL PIT
	Instrument ID: CHGC16									
Total/NA	Prep	3050B			1.00 g	100 mL	218293	07/27/17 12:44	CRM	TAL PIT
Total/NA	Analysis	6010C		1			218421	07/28/17 08:50	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.60 g	100 mL	218097	07/26/17 05:04	RJR	TAL PIT
Total/NA	Analysis	7471B		1			218142	07/26/17 09:22	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.01 g	50 mL	218282	07/27/17 11:19	JAS	TAL PIT
Total/NA	Analysis	9014		1			218335	07/27/17 14:50	JAS	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: WB 7-8, S3, A 072417
Date Collected: 07/24/17 11:10
Date Received: 07/25/17 09:15

Lab Sample ID: 180-68509-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218069	07/25/17 15:39	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68509-1

Client Sample ID: WB 7-8, S3, A 072417
Date Collected: 07/24/17 11:10
Date Received: 07/25/17 09:15

Lab Sample ID: 180-68509-7
Matrix: Solid
Percent Solids: 78.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.0199 g	5 mL	218236	07/27/17 05:30	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	218225	07/27/17 12:49	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: WB 7-8, S3, B 072417
Date Collected: 07/24/17 11:20
Date Received: 07/25/17 09:15

Lab Sample ID: 180-68509-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218069	07/25/17 15:39	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: WB 7-8, S3, B 072417
Date Collected: 07/24/17 11:20
Date Received: 07/25/17 09:15

Lab Sample ID: 180-68509-8
Matrix: Solid
Percent Solids: 83.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.7011 g	5 mL	218236	07/27/17 05:30	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	218225	07/27/17 13:11	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: WB 7-8, S3, C 072417
Date Collected: 07/24/17 11:30
Date Received: 07/25/17 09:15

Lab Sample ID: 180-68509-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218069	07/25/17 15:39	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: WB 7-8, S3, C 072417
Date Collected: 07/24/17 11:30
Date Received: 07/25/17 09:15

Lab Sample ID: 180-68509-9
Matrix: Solid
Percent Solids: 77.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	0.5 mL	218278	07/27/17 11:21	MAL	TAL PIT
Total/NA	Analysis	8270D LL		1	1 mL	1 mL	218265	07/27/17 21:19	VVP	TAL PIT
	Instrument ID: CH732									
Total/NA	Prep	3541			15.0 g	20.0 mL	218112	07/26/17 08:33	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	218177	07/26/17 13:57	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	218178	07/26/17 13:58	JMO	TAL PIT
Total/NA	Analysis	8082A		1			218100	07/27/17 01:30	JMO	TAL PIT
	Instrument ID: CHGC16									
Total/NA	Prep	3050B			0.91 g	100 mL	218293	07/27/17 12:44	CRM	TAL PIT

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68509-1

Client Sample ID: WB 7-8, S3, C 072417
Lab Sample ID: 180-68509-9
Date Collected: 07/24/17 11:30
Matrix: Solid
Date Received: 07/25/17 09:15
Percent Solids: 77.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	6010C		1			218421	07/28/17 08:55	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.66 g	100 mL	218097	07/26/17 05:04	RJR	TAL PIT
Total/NA	Analysis	7471B		1			218142	07/26/17 09:24	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.00 g	50 mL	218282	07/27/17 11:19	JAS	TAL PIT
Total/NA	Analysis	9014		1			218335	07/27/17 14:52	JAS	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: WB 7-8, S4, A 072417
Lab Sample ID: 180-68509-10
Date Collected: 07/24/17 12:05
Matrix: Solid
Date Received: 07/25/17 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218069	07/25/17 15:39	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: WB 7-8, S4, A 072417
Lab Sample ID: 180-68509-10
Date Collected: 07/24/17 12:05
Matrix: Solid
Date Received: 07/25/17 09:15
Percent Solids: 71.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.4255 g	5 mL	218236	07/27/17 05:30	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	218225	07/27/17 13:34	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: WB 7-8, S4, B 072417
Lab Sample ID: 180-68509-11
Date Collected: 07/24/17 12:10
Matrix: Solid
Date Received: 07/25/17 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218069	07/25/17 15:39	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: WB 7-8, S4, B 072417
Lab Sample ID: 180-68509-11
Date Collected: 07/24/17 12:10
Matrix: Solid
Date Received: 07/25/17 09:15
Percent Solids: 62.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.5162 g	5 mL	218236	07/27/17 05:30	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	218225	07/27/17 13:57	KLG	TAL PIT
	Instrument ID: CHHP3									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68509-1

Client Sample ID: WB 7-8, S4, C 072417
Lab Sample ID: 180-68509-12
Date Collected: 07/24/17 12:15
Matrix: Solid
Date Received: 07/25/17 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218069	07/25/17 15:39	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: WB 7-8, S4, C 072417
Lab Sample ID: 180-68509-12
Date Collected: 07/24/17 12:15
Matrix: Solid
Date Received: 07/25/17 09:15
Percent Solids: 71.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	0.5 mL	218278	07/27/17 11:21	MAL	TAL PIT
Total/NA	Analysis	8270D LL		1	1 mL	1 mL	218265	07/27/17 21:46	VVP	TAL PIT
	Instrument ID: CH732									
Total/NA	Prep	3541			15.2 g	20.0 mL	218112	07/26/17 08:33	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	218177	07/26/17 13:57	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	218178	07/26/17 13:58	JMO	TAL PIT
Total/NA	Analysis	8082A		1			218100	07/27/17 01:50	JMO	TAL PIT
	Instrument ID: CHGC16									
Total/NA	Prep	3050B			1.05 g	100 mL	218293	07/27/17 12:44	CRM	TAL PIT
Total/NA	Analysis	6010C		1			218421	07/28/17 09:00	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.63 g	100 mL	218097	07/26/17 05:04	RJR	TAL PIT
Total/NA	Analysis	7471B		1			218142	07/26/17 09:28	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.01 g	50 mL	218282	07/27/17 11:19	JAS	TAL PIT
Total/NA	Analysis	9014		1			218335	07/27/17 14:54	JAS	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: W9, S1, A 072417
Lab Sample ID: 180-68509-13
Date Collected: 07/24/17 13:10
Matrix: Solid
Date Received: 07/25/17 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218069	07/25/17 15:39	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W9, S1, A 072417
Lab Sample ID: 180-68509-13
Date Collected: 07/24/17 13:10
Matrix: Solid
Date Received: 07/25/17 09:15
Percent Solids: 94.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.0889 g	5 mL	218236	07/27/17 05:30	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	218225	07/27/17 14:20	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W9, S1, B 072417

Lab Sample ID: 180-68509-14
Date Collected: 07/24/17 13:15
Matrix: Solid
Date Received: 07/25/17 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218069	07/25/17 15:39	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W9, S1, B 072417

Lab Sample ID: 180-68509-14
Date Collected: 07/24/17 13:15
Matrix: Solid
Date Received: 07/25/17 09:15
Percent Solids: 94.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.8203 g	5 mL	218236	07/27/17 05:30	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	218225	07/27/17 14:42	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W9, S1, C 072417

Lab Sample ID: 180-68509-15
Date Collected: 07/24/17 13:20
Matrix: Solid
Date Received: 07/25/17 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218069	07/25/17 15:39	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W9, S1, C 072417

Lab Sample ID: 180-68509-15
Date Collected: 07/24/17 13:20
Matrix: Solid
Date Received: 07/25/17 09:15
Percent Solids: 92.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	0.5 mL	218278	07/27/17 11:21	MAL	TAL PIT
Total/NA	Analysis	8270D LL		3	1 mL	1 mL	218265	07/27/17 22:13	VVP	TAL PIT
	Instrument ID: CH732									
Total/NA	Prep	3541			15.1 g	20.0 mL	218112	07/26/17 08:33	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	218177	07/26/17 13:57	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	218178	07/26/17 13:58	JMO	TAL PIT
Total/NA	Analysis	8082A		1			218100	07/27/17 02:11	JMO	TAL PIT
	Instrument ID: CHGC16									
Total/NA	Prep	3050B			0.96 g	100 mL	218293	07/27/17 12:44	CRM	TAL PIT
Total/NA	Analysis	6010C		1			218421	07/28/17 09:05	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.63 g	100 mL	218097	07/26/17 05:04	RJR	TAL PIT
Total/NA	Analysis	7471B		1			218142	07/26/17 09:26	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.02 g	50 mL	218282	07/27/17 11:19	JAS	TAL PIT
Total/NA	Analysis	9014		1			218335	07/27/17 14:56	JAS	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: TRIP BLANK
Date Collected: 07/24/17 00:00
Date Received: 07/25/17 09:15

Lab Sample ID: 180-68509-22
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	218093	07/26/17 10:33	FBB	TAL PIT
	Instrument ID: CHHP6									

Client Sample ID: DUP 15
Date Collected: 07/24/17 00:00
Date Received: 07/25/17 09:15

Lab Sample ID: 180-68509-23
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218069	07/25/17 15:39	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: DUP 15
Date Collected: 07/24/17 00:00
Date Received: 07/25/17 09:15

Lab Sample ID: 180-68509-23
Matrix: Solid
Percent Solids: 94.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.7378 g	5 mL	218236	07/27/17 05:30	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	218225	07/27/17 15:05	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: DUP 14
Date Collected: 07/24/17 00:00
Date Received: 07/25/17 09:15

Lab Sample ID: 180-68509-24
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218069	07/25/17 15:39	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: DUP 14
Date Collected: 07/24/17 00:00
Date Received: 07/25/17 09:15

Lab Sample ID: 180-68509-24
Matrix: Solid
Percent Solids: 68.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	0.5 mL	218278	07/27/17 11:21	MAL	TAL PIT
Total/NA	Analysis	8270D LL		2	1 mL	1 mL	218265	07/27/17 22:40	VVP	TAL PIT
	Instrument ID: CH732									
Total/NA	Prep	3541			15.2 g	20.0 mL	218112	07/26/17 08:33	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	218177	07/26/17 13:57	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	218178	07/26/17 13:58	JMO	TAL PIT
Total/NA	Analysis	8082A		1			218100	07/27/17 03:36	JMO	TAL PIT
	Instrument ID: CHGC16									
Total/NA	Prep	3050B			0.94 g	100 mL	218293	07/27/17 12:44	CRM	TAL PIT

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68509-1

Client Sample ID: DUP 14
Date Collected: 07/24/17 00:00
Date Received: 07/25/17 09:15

Lab Sample ID: 180-68509-24
Matrix: Solid
Percent Solids: 68.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	6010C		1			218421	07/28/17 09:11	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.63 g	100 mL	218097	07/26/17 05:04	RJR	TAL PIT
Total/NA	Analysis	7471B		1			218142	07/26/17 09:30	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.01 g	50 mL	218282	07/27/17 11:19	JAS	TAL PIT
Total/NA	Analysis	9014		1			218335	07/27/17 14:57	JAS	TAL PIT
	Instrument ID: SEAL2									

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Analyst References:

Lab: TAL PIT

Batch Type: Cleanup

JMO = John Oravec

Batch Type: Prep

BAP = Brian Pino

CRM = Caitlin McEvoy

JAS = Joshua Schmidt

KLG = Kathy Gordon

MAL = Michael Lonzo

RJR = Ron Rosenbaum

Batch Type: Analysis

FBB = Frank Bungard

JAS = Joshua Schmidt

JMO = John Oravec

JTL = Justin Landry

KLG = Kathy Gordon

RJG = Rob Good

RJR = Ron Rosenbaum

VVP = Vincent Piccolino

Client Sample ID: WB 7-8, S1, A 072417

Lab Sample ID: 180-68509-1
Date Collected: 07/24/17 10:05
Matrix: Solid
Date Received: 07/25/17 09:15
Percent Solids: 78.4

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.022	0.0035	mg/Kg	☼	07/26/17 05:40	07/26/17 16:12	1
Benzene	ND		0.0055	0.0022	mg/Kg	☼	07/26/17 05:40	07/26/17 16:12	1
2-Butanone (MEK)	ND		0.0055	0.0032	mg/Kg	☼	07/26/17 05:40	07/26/17 16:12	1
Carbon tetrachloride	ND		0.0055	0.0037	mg/Kg	☼	07/26/17 05:40	07/26/17 16:12	1
Chlorobenzene	ND		0.0055	0.0017	mg/Kg	☼	07/26/17 05:40	07/26/17 16:12	1
Chloroform	ND		0.0055	0.0023	mg/Kg	☼	07/26/17 05:40	07/26/17 16:12	1
cis-1,2-Dichloroethene	ND		0.0055	0.0017	mg/Kg	☼	07/26/17 05:40	07/26/17 16:12	1
1,2-Dichlorobenzene	ND		0.0055	0.0044	mg/Kg	☼	07/26/17 05:40	07/26/17 16:12	1
1,3-Dichlorobenzene	ND		0.0055	0.0018	mg/Kg	☼	07/26/17 05:40	07/26/17 16:12	1
1,4-Dichlorobenzene	ND		0.0055	0.0011	mg/Kg	☼	07/26/17 05:40	07/26/17 16:12	1
1,1-Dichloroethane	ND		0.0055	0.0020	mg/Kg	☼	07/26/17 05:40	07/26/17 16:12	1
1,2-Dichloroethane	ND		0.0055	0.0016	mg/Kg	☼	07/26/17 05:40	07/26/17 16:12	1
1,1-Dichloroethene	ND		0.0055	0.0032	mg/Kg	☼	07/26/17 05:40	07/26/17 16:12	1
Ethylbenzene	ND		0.0055	0.0024	mg/Kg	☼	07/26/17 05:40	07/26/17 16:12	1
Methylene Chloride	ND		0.0055	0.0026	mg/Kg	☼	07/26/17 05:40	07/26/17 16:12	1
Methyl tert-butyl ether	ND		0.0055	0.0041	mg/Kg	☼	07/26/17 05:40	07/26/17 16:12	1
n-Butylbenzene	ND		0.0055	0.0042	mg/Kg	☼	07/26/17 05:40	07/26/17 16:12	1
N-Propylbenzene	ND		0.0055	0.0023	mg/Kg	☼	07/26/17 05:40	07/26/17 16:12	1
sec-Butylbenzene	ND		0.0055	0.0027	mg/Kg	☼	07/26/17 05:40	07/26/17 16:12	1
tert-Butylbenzene	ND		0.0055	0.0020	mg/Kg	☼	07/26/17 05:40	07/26/17 16:12	1
Tetrachloroethene	ND		0.0055	0.0022	mg/Kg	☼	07/26/17 05:40	07/26/17 16:12	1
Toluene	ND		0.0055	0.0019	mg/Kg	☼	07/26/17 05:40	07/26/17 16:12	1
trans-1,2-Dichloroethene	ND		0.0055	0.0028	mg/Kg	☼	07/26/17 05:40	07/26/17 16:12	1
1,1,1-Trichloroethane	ND		0.0055	0.0028	mg/Kg	☼	07/26/17 05:40	07/26/17 16:12	1
Trichloroethene	ND		0.0055	0.0017	mg/Kg	☼	07/26/17 05:40	07/26/17 16:12	1
1,2,4-Trimethylbenzene	ND		0.0055	0.0015	mg/Kg	☼	07/26/17 05:40	07/26/17 16:12	1
1,3,5-Trimethylbenzene	ND		0.0055	0.0019	mg/Kg	☼	07/26/17 05:40	07/26/17 16:12	1
Vinyl chloride	ND		0.0055	0.0041	mg/Kg	☼	07/26/17 05:40	07/26/17 16:12	1
Xylenes, Total	ND		0.011	0.0048	mg/Kg	☼	07/26/17 05:40	07/26/17 16:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*63 - 120*	*07/26/17 05:40*	*07/26/17 16:12*	*1*
Dibromofluoromethane (Surr)	*101*		*68 - 121*	*07/26/17 05:40*	*07/26/17 16:12*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*52 - 124*	*07/26/17 05:40*	*07/26/17 16:12*	*1*
Toluene-d8 (Surr)	*108*		*72 - 127*	*07/26/17 05:40*	*07/26/17 16:12*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**21.6**		0.1	0.1	%			07/25/17 15:39	1
Percent Solids	**78.4**		0.1	0.1	%			07/25/17 15:39	1

Client Sample ID: WB 7-8, S1, B 072417

Lab Sample ID: 180-68509-2
Date Collected: 07/24/17 10:10
Matrix: Solid
Date Received: 07/25/17 09:15
Percent Solids: 70.7

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.022	0.0034	mg/Kg	☼	07/26/17 05:40	07/26/17 16:35	1
Benzene	ND		0.0055	0.0021	mg/Kg	☼	07/26/17 05:40	07/26/17 16:35	1
2-Butanone (MEK)	ND		0.0055	0.0032	mg/Kg	☼	07/26/17 05:40	07/26/17 16:35	1

Client Sample ID: WB 7-8, S1, B 072417 — Lab Sample ID: 180-68509-2

Date Collected: 07/24/17 10:10 — Matrix: Solid
Date Received: 07/25/17 09:15 — Percent Solids: 70.7

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	ND		0.0055	0.0036	mg/Kg	☼	07/26/17 05:40	07/26/17 16:35	1
Chlorobenzene	ND		0.0055	0.0017	mg/Kg	☼	07/26/17 05:40	07/26/17 16:35	1
Chloroform	ND		0.0055	0.0023	mg/Kg	☼	07/26/17 05:40	07/26/17 16:35	1
cis-1,2-Dichloroethene	ND		0.0055	0.0017	mg/Kg	☼	07/26/17 05:40	07/26/17 16:35	1
1,2-Dichlorobenzene	ND		0.0055	0.0044	mg/Kg	☼	07/26/17 05:40	07/26/17 16:35	1
1,3-Dichlorobenzene	ND		0.0055	0.0017	mg/Kg	☼	07/26/17 05:40	07/26/17 16:35	1
1,4-Dichlorobenzene	ND		0.0055	0.0011	mg/Kg	☼	07/26/17 05:40	07/26/17 16:35	1
1,1-Dichloroethane	ND		0.0055	0.0020	mg/Kg	☼	07/26/17 05:40	07/26/17 16:35	1
1,2-Dichloroethane	ND		0.0055	0.0016	mg/Kg	☼	07/26/17 05:40	07/26/17 16:35	1
1,1-Dichloroethene	ND		0.0055	0.0031	mg/Kg	☼	07/26/17 05:40	07/26/17 16:35	1
Ethylbenzene	ND		0.0055	0.0024	mg/Kg	☼	07/26/17 05:40	07/26/17 16:35	1
Methylene Chloride	ND		0.0055	0.0026	mg/Kg	☼	07/26/17 05:40	07/26/17 16:35	1
Methyl tert-butyl ether	ND		0.0055	0.0040	mg/Kg	☼	07/26/17 05:40	07/26/17 16:35	1
n-Butylbenzene	ND		0.0055	0.0041	mg/Kg	☼	07/26/17 05:40	07/26/17 16:35	1
N-Propylbenzene	ND		0.0055	0.0023	mg/Kg	☼	07/26/17 05:40	07/26/17 16:35	1
sec-Butylbenzene	ND		0.0055	0.0027	mg/Kg	☼	07/26/17 05:40	07/26/17 16:35	1
tert-Butylbenzene	ND		0.0055	0.0020	mg/Kg	☼	07/26/17 05:40	07/26/17 16:35	1
Tetrachloroethene	ND		0.0055	0.0022	mg/Kg	☼	07/26/17 05:40	07/26/17 16:35	1
Toluene	ND		0.0055	0.0018	mg/Kg	☼	07/26/17 05:40	07/26/17 16:35	1
trans-1,2-Dichloroethene	ND		0.0055	0.0028	mg/Kg	☼	07/26/17 05:40	07/26/17 16:35	1
1,1,1-Trichloroethane	ND		0.0055	0.0027	mg/Kg	☼	07/26/17 05:40	07/26/17 16:35	1
Trichloroethene	ND		0.0055	0.0016	mg/Kg	☼	07/26/17 05:40	07/26/17 16:35	1
1,2,4-Trimethylbenzene	ND		0.0055	0.0015	mg/Kg	☼	07/26/17 05:40	07/26/17 16:35	1
1,3,5-Trimethylbenzene	ND		0.0055	0.0019	mg/Kg	☼	07/26/17 05:40	07/26/17 16:35	1
Vinyl chloride	ND		0.0055	0.0040	mg/Kg	☼	07/26/17 05:40	07/26/17 16:35	1
Xylenes, Total	ND		0.011	0.0047	mg/Kg	☼	07/26/17 05:40	07/26/17 16:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*63 - 120*	*07/26/17 05:40*	*07/26/17 16:35*	*1*
Dibromofluoromethane (Surr)	*101*		*68 - 121*	*07/26/17 05:40*	*07/26/17 16:35*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*52 - 124*	*07/26/17 05:40*	*07/26/17 16:35*	*1*
Toluene-d8 (Surr)	*109*		*72 - 127*	*07/26/17 05:40*	*07/26/17 16:35*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**29.3**		0.1	0.1	%			07/25/17 15:39	1
Percent Solids	**70.7**		0.1	0.1	%			07/25/17 15:39	1

Client Sample ID: WB 7-8, S1, C 072417 — Lab Sample ID: 180-68509-3

Date Collected: 07/24/17 10:20 — Matrix: Solid
Date Received: 07/25/17 09:15 — Percent Solids: 73.3

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.012**		0.0091	0.0031	mg/Kg	☼	07/27/17 11:21	07/27/17 20:25	1
Acenaphthylene	**0.029**		0.0091	0.0031	mg/Kg	☼	07/27/17 11:21	07/27/17 20:25	1
Anthracene	**0.045**		0.0091	0.0034	mg/Kg	☼	07/27/17 11:21	07/27/17 20:25	1
Benzo[a]anthracene	**0.14**		0.0091	0.0036	mg/Kg	☼	07/27/17 11:21	07/27/17 20:25	1
Benzo[a]pyrene	**0.15**		0.0091	0.0038	mg/Kg	☼	07/27/17 11:21	07/27/17 20:25	1
Benzo[b]fluoranthene	**0.19**		0.0091	0.0039	mg/Kg	☼	07/27/17 11:21	07/27/17 20:25	1

Client Sample ID: WB 7-8, S1, C 072417 **Lab Sample ID: 180-68509-3**
Date Collected: 07/24/17 10:20 **Matrix: Solid**
Date Received: 07/25/17 09:15 **Percent Solids: 73.3**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	**0.16**		0.0091	0.0039	mg/Kg	☼	07/27/17 11:21	07/27/17 20:25	1
Benzo[k]fluoranthene	**0.080**		0.0091	0.0031	mg/Kg	☼	07/27/17 11:21	07/27/17 20:25	1
Chrysene	**0.16**		0.0091	0.0036	mg/Kg	☼	07/27/17 11:21	07/27/17 20:25	1
Dibenz(a,h)anthracene	**0.035**		0.0091	0.0038	mg/Kg	☼	07/27/17 11:21	07/27/17 20:25	1
Dibenzofuran	**0.0091**	**J**	0.045	0.0036	mg/Kg	☼	07/27/17 11:21	07/27/17 20:25	1
1,4-Dioxane	ND		0.091	0.0069	mg/Kg	☼	07/27/17 11:21	07/27/17 20:25	1
Fluoranthene	**0.29**		0.0091	0.0036	mg/Kg	☼	07/27/17 11:21	07/27/17 20:25	1
Fluorene	**0.014**		0.0091	0.0032	mg/Kg	☼	07/27/17 11:21	07/27/17 20:25	1
Hexachlorobenzene	ND		0.0091	0.0037	mg/Kg	☼	07/27/17 11:21	07/27/17 20:25	1
Indeno[1,2,3-cd]pyrene	**0.14**		0.0091	0.0035	mg/Kg	☼	07/27/17 11:21	07/27/17 20:25	1
2-Methylphenol	ND		0.045	0.0040	mg/Kg	☼	07/27/17 11:21	07/27/17 20:25	1
Methylphenol, 3 & 4	**0.0082**	**J**	0.045	0.0040	mg/Kg	☼	07/27/17 11:21	07/27/17 20:25	1
Naphthalene	**0.011**		0.0091	0.0033	mg/Kg	☼	07/27/17 11:21	07/27/17 20:25	1
Pentachlorophenol	ND		0.23	0.086	mg/Kg	☼	07/27/17 11:21	07/27/17 20:25	1
Phenanthrene	**0.12**		0.0091	0.0038	mg/Kg	☼	07/27/17 11:21	07/27/17 20:25	1
Phenol	ND		0.045	0.0061	mg/Kg	☼	07/27/17 11:21	07/27/17 20:25	1
Pyrene	**0.21**		0.0091	0.0041	mg/Kg	☼	07/27/17 11:21	07/27/17 20:25	1
Hexachloroethane	ND		45	3.3	ug/Kg	☼	07/27/17 11:21	07/27/17 20:25	1
Nitrobenzene	ND		91	3.5	ug/Kg	☼	07/27/17 11:21	07/27/17 20:25	1
Hexachlorobutadiene	ND		9.1	2.9	ug/Kg	☼	07/27/17 11:21	07/27/17 20:25	1
2,4,5-Trichlorophenol	ND		45	4.3	ug/Kg	☼	07/27/17 11:21	07/27/17 20:25	1
2,4,6-Trichlorophenol	ND		45	4.0	ug/Kg	☼	07/27/17 11:21	07/27/17 20:25	1
2,4-Dinitrotoluene	ND		45	6.0	ug/Kg	☼	07/27/17 11:21	07/27/17 20:25	1
Pyridine	ND		45	4.4	ug/Kg	☼	07/27/17 11:21	07/27/17 20:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*55*		*42 - 100*	*07/27/17 11:21*	*07/27/17 20:25*	*1*
2-Fluorophenol (Surr)	*51*		*21 - 107*	*07/27/17 11:21*	*07/27/17 20:25*	*1*
Nitrobenzene-d5 (Surr)	*48*		*35 - 109*	*07/27/17 11:21*	*07/27/17 20:25*	*1*
Phenol-d5 (Surr)	*49*		*29 - 105*	*07/27/17 11:21*	*07/27/17 20:25*	*1*
Terphenyl-d14 (Surr)	*49*		*36 - 113*	*07/27/17 11:21*	*07/27/17 20:25*	*1*
2,4,6-Tribromophenol (Surr)	*70*		*20 - 134*	*07/27/17 11:21*	*07/27/17 20:25*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.023	0.012	mg/Kg	☼	07/26/17 08:33	07/27/17 00:48	1
PCB-1221	ND		0.023	0.012	mg/Kg	☼	07/26/17 08:33	07/27/17 00:48	1
PCB-1232	ND		0.023	0.0089	mg/Kg	☼	07/26/17 08:33	07/27/17 00:48	1
PCB-1242	ND		0.023	0.018	mg/Kg	☼	07/26/17 08:33	07/27/17 00:48	1
PCB-1248	**1.3**		0.023	0.011	mg/Kg	☼	07/26/17 08:33	07/27/17 00:48	1
PCB-1254	**0.50**		0.023	0.0099	mg/Kg	☼	07/26/17 08:33	07/27/17 00:48	1
PCB-1260	**0.054**		0.023	0.015	mg/Kg	☼	07/26/17 08:33	07/27/17 00:48	1
PCB-1262	ND		0.023	0.016	mg/Kg	☼	07/26/17 08:33	07/27/17 00:48	1
PCB-1268	ND		0.023	0.0069	mg/Kg	☼	07/26/17 08:33	07/27/17 00:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*65*		*23 - 150*	*07/26/17 08:33*	*07/27/17 00:48*	*1*
DCB Decachlorobiphenyl (Surr)	*65*		*23 - 150*	*07/26/17 08:33*	*07/27/17 00:48*	*1*
Tetrachloro-m-xylene (Surr)	*69*		*27 - 138*	*07/26/17 08:33*	*07/27/17 00:48*	*1*
Tetrachloro-m-xylene (Surr)	*69*		*27 - 138*	*07/26/17 08:33*	*07/27/17 00:48*	*1*

Client Sample ID: WB 7-8, S1, C 072417

Lab Sample ID: 180-68509-3
Date Collected: 07/24/17 10:20
Matrix: Solid
Date Received: 07/25/17 09:15
Percent Solids: 73.3

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.6		1.4	0.61	mg/Kg	☼	07/27/17 12:44	07/28/17 08:45	1
Barium	90		28	7.5	mg/Kg	☼	07/27/17 12:44	07/28/17 08:45	1
Beryllium	0.31	J	0.56	0.15	mg/Kg	☼	07/27/17 12:44	07/28/17 08:45	1
Cadmium	0.23	J	0.70	0.16	mg/Kg	☼	07/27/17 12:44	07/28/17 08:45	1
Chromium	9.2		0.70	0.18	mg/Kg	☼	07/27/17 12:44	07/28/17 08:45	1
Copper	29		3.5	1.1	mg/Kg	☼	07/27/17 12:44	07/28/17 08:45	1
Lead	39		1.4	0.46	mg/Kg	☼	07/27/17 12:44	07/28/17 08:45	1
Manganese	380		2.1	0.56	mg/Kg	☼	07/27/17 12:44	07/28/17 08:45	1
Nickel	19		5.6	1.3	mg/Kg	☼	07/27/17 12:44	07/28/17 08:45	1
Selenium	ND		1.4	0.55	mg/Kg	☼	07/27/17 12:44	07/28/17 08:45	1
Silver	ND		0.70	0.23	mg/Kg	☼	07/27/17 12:44	07/28/17 08:45	1
Zinc	63		2.8	1.4	mg/Kg	☼	07/27/17 12:44	07/28/17 08:45	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.044	J	0.045	0.010	mg/Kg	☼	07/26/17 05:04	07/26/17 09:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	26.7		0.1	0.1	%			07/25/17 15:39	1
Percent Solids	73.3		0.1	0.1	%			07/25/17 15:39	1
Cyanide, Total	0.34	J	0.68	0.21	mg/Kg	☼	07/27/17 11:19	07/27/17 14:49	1

Client Sample ID: WB 7-8, S2, A 072417

Lab Sample ID: 180-68509-4
Date Collected: 07/24/17 10:45
Matrix: Solid
Date Received: 07/25/17 09:15
Percent Solids: 79.2

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.026	0.0041	mg/Kg	☼	07/26/17 05:40	07/26/17 16:58	1
Benzene	ND		0.0065	0.0025	mg/Kg	☼	07/26/17 05:40	07/26/17 16:58	1
2-Butanone (MEK)	ND		0.0065	0.0037	mg/Kg	☼	07/26/17 05:40	07/26/17 16:58	1
Carbon tetrachloride	ND		0.0065	0.0043	mg/Kg	☼	07/26/17 05:40	07/26/17 16:58	1
Chlorobenzene	ND		0.0065	0.0020	mg/Kg	☼	07/26/17 05:40	07/26/17 16:58	1
Chloroform	ND		0.0065	0.0027	mg/Kg	☼	07/26/17 05:40	07/26/17 16:58	1
cis-1,2-Dichloroethene	ND		0.0065	0.0020	mg/Kg	☼	07/26/17 05:40	07/26/17 16:58	1
1,2-Dichlorobenzene	ND		0.0065	0.0052	mg/Kg	☼	07/26/17 05:40	07/26/17 16:58	1
1,3-Dichlorobenzene	ND		0.0065	0.0021	mg/Kg	☼	07/26/17 05:40	07/26/17 16:58	1
1,4-Dichlorobenzene	ND		0.0065	0.0013	mg/Kg	☼	07/26/17 05:40	07/26/17 16:58	1
1,1-Dichloroethane	ND		0.0065	0.0023	mg/Kg	☼	07/26/17 05:40	07/26/17 16:58	1
1,2-Dichloroethane	ND		0.0065	0.0019	mg/Kg	☼	07/26/17 05:40	07/26/17 16:58	1
1,1-Dichloroethene	ND		0.0065	0.0037	mg/Kg	☼	07/26/17 05:40	07/26/17 16:58	1
Ethylbenzene	0.0040	J	0.0065	0.0028	mg/Kg	☼	07/26/17 05:40	07/26/17 16:58	1
Methylene Chloride	ND		0.0065	0.0030	mg/Kg	☼	07/26/17 05:40	07/26/17 16:58	1
Methyl tert-butyl ether	ND		0.0065	0.0048	mg/Kg	☼	07/26/17 05:40	07/26/17 16:58	1
n-Butylbenzene	ND		0.0065	0.0049	mg/Kg	☼	07/26/17 05:40	07/26/17 16:58	1
N-Propylbenzene	ND		0.0065	0.0027	mg/Kg	☼	07/26/17 05:40	07/26/17 16:58	1
sec-Butylbenzene	ND		0.0065	0.0031	mg/Kg	☼	07/26/17 05:40	07/26/17 16:58	1
tert-Butylbenzene	ND		0.0065	0.0024	mg/Kg	☼	07/26/17 05:40	07/26/17 16:58	1
Tetrachloroethene	ND		0.0065	0.0026	mg/Kg	☼	07/26/17 05:40	07/26/17 16:58	1

Client Sample ID: WB 7-8, S2, A 072417

Lab Sample ID: 180-68509-4
Date Collected: 07/24/17 10:45
Matrix: Solid
Date Received: 07/25/17 09:15
Percent Solids: 79.2

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		0.0065	0.0022	mg/Kg	☼	07/26/17 05:40	07/26/17 16:58	1
trans-1,2-Dichloroethene	ND		0.0065	0.0033	mg/Kg	☼	07/26/17 05:40	07/26/17 16:58	1
1,1,1-Trichloroethane	ND		0.0065	0.0032	mg/Kg	☼	07/26/17 05:40	07/26/17 16:58	1
Trichloroethene	ND		0.0065	0.0019	mg/Kg	☼	07/26/17 05:40	07/26/17 16:58	1
1,2,4-Trimethylbenzene	ND		0.0065	0.0017	mg/Kg	☼	07/26/17 05:40	07/26/17 16:58	1
1,3,5-Trimethylbenzene	ND		0.0065	0.0022	mg/Kg	☼	07/26/17 05:40	07/26/17 16:58	1
Vinyl chloride	ND		0.0065	0.0047	mg/Kg	☼	07/26/17 05:40	07/26/17 16:58	1
Xylenes, Total	**0.026**		0.013	0.0056	mg/Kg	☼	07/26/17 05:40	07/26/17 16:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*63 - 120*	*07/26/17 05:40*	*07/26/17 16:58*	*1*
Dibromofluoromethane (Surr)	*103*		*68 - 121*	*07/26/17 05:40*	*07/26/17 16:58*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*52 - 124*	*07/26/17 05:40*	*07/26/17 16:58*	*1*
Toluene-d8 (Surr)	*113*		*72 - 127*	*07/26/17 05:40*	*07/26/17 16:58*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**20.8**		0.1	0.1	%			07/25/17 15:39	1
Percent Solids	**79.2**		0.1	0.1	%			07/25/17 15:39	1

Client Sample ID: WB 7-8, S2, B 072417

Lab Sample ID: 180-68509-5
Date Collected: 07/24/17 10:50
Matrix: Solid
Date Received: 07/25/17 09:15
Percent Solids: 74.2

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.024	0.0037	mg/Kg	☼	07/27/17 05:30	07/27/17 12:26	1
Benzene	ND		0.0059	0.0023	mg/Kg	☼	07/27/17 05:30	07/27/17 12:26	1
2-Butanone (MEK)	ND		0.0059	0.0034	mg/Kg	☼	07/27/17 05:30	07/27/17 12:26	1
Carbon tetrachloride	ND		0.0059	0.0039	mg/Kg	☼	07/27/17 05:30	07/27/17 12:26	1
Chlorobenzene	ND		0.0059	0.0019	mg/Kg	☼	07/27/17 05:30	07/27/17 12:26	1
Chloroform	ND		0.0059	0.0025	mg/Kg	☼	07/27/17 05:30	07/27/17 12:26	1
cis-1,2-Dichloroethene	ND		0.0059	0.0019	mg/Kg	☼	07/27/17 05:30	07/27/17 12:26	1
1,2-Dichlorobenzene	ND		0.0059	0.0048	mg/Kg	☼	07/27/17 05:30	07/27/17 12:26	1
1,3-Dichlorobenzene	ND		0.0059	0.0019	mg/Kg	☼	07/27/17 05:30	07/27/17 12:26	1
1,4-Dichlorobenzene	ND		0.0059	0.0012	mg/Kg	☼	07/27/17 05:30	07/27/17 12:26	1
1,1-Dichloroethane	ND		0.0059	0.0021	mg/Kg	☼	07/27/17 05:30	07/27/17 12:26	1
1,2-Dichloroethane	ND		0.0059	0.0017	mg/Kg	☼	07/27/17 05:30	07/27/17 12:26	1
1,1-Dichloroethene	ND		0.0059	0.0034	mg/Kg	☼	07/27/17 05:30	07/27/17 12:26	1
Ethylbenzene	ND		0.0059	0.0026	mg/Kg	☼	07/27/17 05:30	07/27/17 12:26	1
Methylene Chloride	ND		0.0059	0.0028	mg/Kg	☼	07/27/17 05:30	07/27/17 12:26	1
Methyl tert-butyl ether	ND		0.0059	0.0044	mg/Kg	☼	07/27/17 05:30	07/27/17 12:26	1
n-Butylbenzene	ND		0.0059	0.0045	mg/Kg	☼	07/27/17 05:30	07/27/17 12:26	1
N-Propylbenzene	ND		0.0059	0.0025	mg/Kg	☼	07/27/17 05:30	07/27/17 12:26	1
sec-Butylbenzene	ND		0.0059	0.0029	mg/Kg	☼	07/27/17 05:30	07/27/17 12:26	1
tert-Butylbenzene	ND		0.0059	0.0022	mg/Kg	☼	07/27/17 05:30	07/27/17 12:26	1
Tetrachloroethene	ND		0.0059	0.0024	mg/Kg	☼	07/27/17 05:30	07/27/17 12:26	1
Toluene	ND		0.0059	0.0020	mg/Kg	☼	07/27/17 05:30	07/27/17 12:26	1
trans-1,2-Dichloroethene	ND		0.0059	0.0030	mg/Kg	☼	07/27/17 05:30	07/27/17 12:26	1
1,1,1-Trichloroethane	ND		0.0059	0.0030	mg/Kg	☼	07/27/17 05:30	07/27/17 12:26	1

Client Sample ID: WB 7-8, S2, B 072417 — Lab Sample ID: 180-68509-5

Date Collected: 07/24/17 10:50 — **Matrix: Solid**
Date Received: 07/25/17 09:15 — **Percent Solids: 74.2**

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	ND		0.0059	0.0018	mg/Kg	☼	07/27/17 05:30	07/27/17 12:26	1
1,2,4-Trimethylbenzene	ND		0.0059	0.0016	mg/Kg	☼	07/27/17 05:30	07/27/17 12:26	1
1,3,5-Trimethylbenzene	ND		0.0059	0.0020	mg/Kg	☼	07/27/17 05:30	07/27/17 12:26	1
Vinyl chloride	ND		0.0059	0.0043	mg/Kg	☼	07/27/17 05:30	07/27/17 12:26	1
Xylenes, Total	ND		0.012	0.0051	mg/Kg	☼	07/27/17 05:30	07/27/17 12:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*63 - 120*	*07/27/17 05:30*	*07/27/17 12:26*	*1*
Dibromofluoromethane (Surr)	*99*		*68 - 121*	*07/27/17 05:30*	*07/27/17 12:26*	*1*
1,2-Dichloroethane-d4 (Surr)	*91*		*52 - 124*	*07/27/17 05:30*	*07/27/17 12:26*	*1*
Toluene-d8 (Surr)	*112*		*72 - 127*	*07/27/17 05:30*	*07/27/17 12:26*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**25.8**		0.1	0.1	%			07/25/17 15:39	1
Percent Solids	**74.2**		0.1	0.1	%			07/25/17 15:39	1

Client Sample ID: WB 7-8, S2, C 072417 — Lab Sample ID: 180-68509-6

Date Collected: 07/24/17 10:55 — **Matrix: Solid**
Date Received: 07/25/17 09:15 — **Percent Solids: 72.6**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.037**		0.018	0.0062	mg/Kg	☼	07/27/17 11:21	07/27/17 20:52	2
Acenaphthylene	**0.062**		0.018	0.0062	mg/Kg	☼	07/27/17 11:21	07/27/17 20:52	2
Anthracene	**0.10**		0.018	0.0068	mg/Kg	☼	07/27/17 11:21	07/27/17 20:52	2
Benzo[a]anthracene	**0.23**		0.018	0.0073	mg/Kg	☼	07/27/17 11:21	07/27/17 20:52	2
Benzo[a]pyrene	**0.22**		0.018	0.0076	mg/Kg	☼	07/27/17 11:21	07/27/17 20:52	2
Benzo[b]fluoranthene	**0.29**		0.018	0.0080	mg/Kg	☼	07/27/17 11:21	07/27/17 20:52	2
Benzo[g,h,i]perylene	**0.22**		0.018	0.0080	mg/Kg	☼	07/27/17 11:21	07/27/17 20:52	2
Benzo[k]fluoranthene	**0.10**		0.018	0.0063	mg/Kg	☼	07/27/17 11:21	07/27/17 20:52	2
Chrysene	**0.25**		0.018	0.0072	mg/Kg	☼	07/27/17 11:21	07/27/17 20:52	2
Dibenz(a,h)anthracene	**0.053**		0.018	0.0076	mg/Kg	☼	07/27/17 11:21	07/27/17 20:52	2
Dibenzofuran	**0.028**	**J**	0.091	0.0073	mg/Kg	☼	07/27/17 11:21	07/27/17 20:52	2
1,4-Dioxane	ND		0.18	0.014	mg/Kg	☼	07/27/17 11:21	07/27/17 20:52	2
Fluoranthene	**0.46**		0.018	0.0072	mg/Kg	☼	07/27/17 11:21	07/27/17 20:52	2
Fluorene	**0.044**		0.018	0.0065	mg/Kg	☼	07/27/17 11:21	07/27/17 20:52	2
Hexachlorobenzene	ND		0.018	0.0074	mg/Kg	☼	07/27/17 11:21	07/27/17 20:52	2
Indeno[1,2,3-cd]pyrene	**0.18**		0.018	0.0071	mg/Kg	☼	07/27/17 11:21	07/27/17 20:52	2
2-Methylphenol	ND		0.091	0.0081	mg/Kg	☼	07/27/17 11:21	07/27/17 20:52	2
Methylphenol, 3 & 4	**0.021**	**J**	0.091	0.0081	mg/Kg	☼	07/27/17 11:21	07/27/17 20:52	2
Naphthalene	**0.030**		0.018	0.0066	mg/Kg	☼	07/27/17 11:21	07/27/17 20:52	2
Pentachlorophenol	ND		0.47	0.17	mg/Kg	☼	07/27/17 11:21	07/27/17 20:52	2
Phenanthrene	**0.28**		0.018	0.0077	mg/Kg	☼	07/27/17 11:21	07/27/17 20:52	2
Phenol	ND		0.091	0.012	mg/Kg	☼	07/27/17 11:21	07/27/17 20:52	2
Pyrene	**0.33**		0.018	0.0082	mg/Kg	☼	07/27/17 11:21	07/27/17 20:52	2
Hexachloroethane	ND		91	6.6	ug/Kg	☼	07/27/17 11:21	07/27/17 20:52	2
Nitrobenzene	ND		180	7.0	ug/Kg	☼	07/27/17 11:21	07/27/17 20:52	2
Hexachlorobutadiene	ND		18	5.8	ug/Kg	☼	07/27/17 11:21	07/27/17 20:52	2
2,4,5-Trichlorophenol	ND		91	8.7	ug/Kg	☼	07/27/17 11:21	07/27/17 20:52	2

Client Sample ID: WB 7-8, S2, C 072417
Date Collected: 07/24/17 10:55
Date Received: 07/25/17 09:15

Lab Sample ID: 180-68509-6
Matrix: Solid
Percent Solids: 72.6

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,6-Trichlorophenol	ND		91	8.0	ug/Kg	☼	07/27/17 11:21	07/27/17 20:52	2
2,4-Dinitrotoluene	ND		91	12	ug/Kg	☼	07/27/17 11:21	07/27/17 20:52	2
Pyridine	ND		91	8.8	ug/Kg	☼	07/27/17 11:21	07/27/17 20:52	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*67*		*42 - 100*	*07/27/17 11:21*	*07/27/17 20:52*	*2*
2-Fluorophenol (Surr)	*56*		*21 - 107*	*07/27/17 11:21*	*07/27/17 20:52*	*2*
Nitrobenzene-d5 (Surr)	*55*		*35 - 109*	*07/27/17 11:21*	*07/27/17 20:52*	*2*
Phenol-d5 (Surr)	*59*		*29 - 105*	*07/27/17 11:21*	*07/27/17 20:52*	*2*
Terphenyl-d14 (Surr)	*63*		*36 - 113*	*07/27/17 11:21*	*07/27/17 20:52*	*2*
2,4,6-Tribromophenol (Surr)	*87*		*20 - 134*	*07/27/17 11:21*	*07/27/17 20:52*	*2*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.022	0.012	mg/Kg	☼	07/26/17 08:33	07/27/17 01:09	1
PCB-1221	ND		0.022	0.012	mg/Kg	☼	07/26/17 08:33	07/27/17 01:09	1
PCB-1232	ND		0.022	0.0089	mg/Kg	☼	07/26/17 08:33	07/27/17 01:09	1
PCB-1242	ND		0.022	0.018	mg/Kg	☼	07/26/17 08:33	07/27/17 01:09	1
PCB-1248	**0.79**		0.022	0.011	mg/Kg	☼	07/26/17 08:33	07/27/17 01:09	1
PCB-1254	**0.30**		0.022	0.0099	mg/Kg	☼	07/26/17 08:33	07/27/17 01:09	1
PCB-1260	**0.043**		0.022	0.015	mg/Kg	☼	07/26/17 08:33	07/27/17 01:09	1
PCB-1262	ND		0.022	0.016	mg/Kg	☼	07/26/17 08:33	07/27/17 01:09	1
PCB-1268	ND		0.022	0.0069	mg/Kg	☼	07/26/17 08:33	07/27/17 01:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*64*		*23 - 150*	*07/26/17 08:33*	*07/27/17 01:09*	*1*
DCB Decachlorobiphenyl (Surr)	*65*		*23 - 150*	*07/26/17 08:33*	*07/27/17 01:09*	*1*
Tetrachloro-m-xylene (Surr)	*68*		*27 - 138*	*07/26/17 08:33*	*07/27/17 01:09*	*1*
Tetrachloro-m-xylene (Surr)	*70*		*27 - 138*	*07/26/17 08:33*	*07/27/17 01:09*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**7.2**		1.4	0.61	mg/Kg	☼	07/27/17 12:44	07/28/17 08:50	1
Barium	**97**		28	7.4	mg/Kg	☼	07/27/17 12:44	07/28/17 08:50	1
Beryllium	**0.41**	**J**	0.55	0.14	mg/Kg	☼	07/27/17 12:44	07/28/17 08:50	1
Cadmium	**0.23**	**J**	0.69	0.15	mg/Kg	☼	07/27/17 12:44	07/28/17 08:50	1
Chromium	**12**		0.69	0.18	mg/Kg	☼	07/27/17 12:44	07/28/17 08:50	1
Copper	**33**		3.4	1.1	mg/Kg	☼	07/27/17 12:44	07/28/17 08:50	1
Lead	**42**		1.4	0.45	mg/Kg	☼	07/27/17 12:44	07/28/17 08:50	1
Manganese	**490**		2.1	0.56	mg/Kg	☼	07/27/17 12:44	07/28/17 08:50	1
Nickel	**26**		5.5	1.2	mg/Kg	☼	07/27/17 12:44	07/28/17 08:50	1
Selenium	ND		1.4	0.55	mg/Kg	☼	07/27/17 12:44	07/28/17 08:50	1
Silver	ND		0.69	0.23	mg/Kg	☼	07/27/17 12:44	07/28/17 08:50	1
Zinc	**74**		2.8	1.4	mg/Kg	☼	07/27/17 12:44	07/28/17 08:50	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.066**		0.045	0.010	mg/Kg	☼	07/26/17 05:04	07/26/17 09:22	1

Client Sample ID: WB 7-8, S2, C 072417 — Lab Sample ID: 180-68509-6

Date Collected: 07/24/17 10:55 — **Matrix: Solid**
Date Received: 07/25/17 09:15 — **Percent Solids: 72.6**

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	27.4		0.1	0.1	%			07/25/17 15:39	1
Percent Solids	72.6		0.1	0.1	%			07/25/17 15:39	1
Cyanide, Total	0.30	J	0.68	0.21	mg/Kg	☼	07/27/17 11:19	07/27/17 14:50	1

Client Sample ID: WB 7-8, S3, A 072417 — Lab Sample ID: 180-68509-7

Date Collected: 07/24/17 11:10 — **Matrix: Solid**
Date Received: 07/25/17 09:15 — **Percent Solids: 78.5**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.021	0.0033	mg/Kg	☼	07/27/17 05:30	07/27/17 12:49	1
Benzene	ND		0.0053	0.0021	mg/Kg	☼	07/27/17 05:30	07/27/17 12:49	1
2-Butanone (MEK)	ND		0.0053	0.0031	mg/Kg	☼	07/27/17 05:30	07/27/17 12:49	1
Carbon tetrachloride	ND		0.0053	0.0035	mg/Kg	☼	07/27/17 05:30	07/27/17 12:49	1
Chlorobenzene	ND		0.0053	0.0017	mg/Kg	☼	07/27/17 05:30	07/27/17 12:49	1
Chloroform	ND		0.0053	0.0022	mg/Kg	☼	07/27/17 05:30	07/27/17 12:49	1
cis-1,2-Dichloroethene	ND		0.0053	0.0017	mg/Kg	☼	07/27/17 05:30	07/27/17 12:49	1
1,2-Dichlorobenzene	ND		0.0053	0.0043	mg/Kg	☼	07/27/17 05:30	07/27/17 12:49	1
1,3-Dichlorobenzene	ND		0.0053	0.0017	mg/Kg	☼	07/27/17 05:30	07/27/17 12:49	1
1,4-Dichlorobenzene	ND		0.0053	0.0011	mg/Kg	☼	07/27/17 05:30	07/27/17 12:49	1
1,1-Dichloroethane	ND		0.0053	0.0019	mg/Kg	☼	07/27/17 05:30	07/27/17 12:49	1
1,2-Dichloroethane	ND		0.0053	0.0015	mg/Kg	☼	07/27/17 05:30	07/27/17 12:49	1
1,1-Dichloroethene	ND		0.0053	0.0030	mg/Kg	☼	07/27/17 05:30	07/27/17 12:49	1
Ethylbenzene	ND		0.0053	0.0023	mg/Kg	☼	07/27/17 05:30	07/27/17 12:49	1
Methylene Chloride	ND		0.0053	0.0025	mg/Kg	☼	07/27/17 05:30	07/27/17 12:49	1
Methyl tert-butyl ether	ND		0.0053	0.0039	mg/Kg	☼	07/27/17 05:30	07/27/17 12:49	1
n-Butylbenzene	ND		0.0053	0.0040	mg/Kg	☼	07/27/17 05:30	07/27/17 12:49	1
N-Propylbenzene	ND		0.0053	0.0022	mg/Kg	☼	07/27/17 05:30	07/27/17 12:49	1
sec-Butylbenzene	ND		0.0053	0.0026	mg/Kg	☼	07/27/17 05:30	07/27/17 12:49	1
tert-Butylbenzene	ND		0.0053	0.0019	mg/Kg	☼	07/27/17 05:30	07/27/17 12:49	1
Tetrachloroethene	ND		0.0053	0.0021	mg/Kg	☼	07/27/17 05:30	07/27/17 12:49	1
Toluene	ND		0.0053	0.0018	mg/Kg	☼	07/27/17 05:30	07/27/17 12:49	1
trans-1,2-Dichloroethene	ND		0.0053	0.0027	mg/Kg	☼	07/27/17 05:30	07/27/17 12:49	1
1,1,1-Trichloroethane	ND		0.0053	0.0027	mg/Kg	☼	07/27/17 05:30	07/27/17 12:49	1
Trichloroethene	ND		0.0053	0.0016	mg/Kg	☼	07/27/17 05:30	07/27/17 12:49	1
1,2,4-Trimethylbenzene	ND		0.0053	0.0014	mg/Kg	☼	07/27/17 05:30	07/27/17 12:49	1
1,3,5-Trimethylbenzene	ND		0.0053	0.0018	mg/Kg	☼	07/27/17 05:30	07/27/17 12:49	1
Vinyl chloride	ND		0.0053	0.0039	mg/Kg	☼	07/27/17 05:30	07/27/17 12:49	1
Xylenes, Total	ND		0.011	0.0046	mg/Kg	☼	07/27/17 05:30	07/27/17 12:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*63 - 120*	*07/27/17 05:30*	*07/27/17 12:49*	*1*
Dibromofluoromethane (Surr)	*99*		*68 - 121*	*07/27/17 05:30*	*07/27/17 12:49*	*1*
1,2-Dichloroethane-d4 (Surr)	*91*		*52 - 124*	*07/27/17 05:30*	*07/27/17 12:49*	*1*
Toluene-d8 (Surr)	*110*		*72 - 127*	*07/27/17 05:30*	*07/27/17 12:49*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	21.5		0.1	0.1	%			07/25/17 15:39	1
Percent Solids	78.5		0.1	0.1	%			07/25/17 15:39	1

Client Sample ID: WB 7-8, S3, B 072417 — Lab Sample ID: 180-68509-8

Date Collected: 07/24/17 11:20 — **Matrix: Solid**
Date Received: 07/25/17 09:15 — **Percent Solids: 83.6**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.018	0.0028	mg/Kg	☼	07/27/17 05:30	07/27/17 13:11	1
Benzene	ND		0.0045	0.0018	mg/Kg	☼	07/27/17 05:30	07/27/17 13:11	1
2-Butanone (MEK)	ND		0.0045	0.0026	mg/Kg	☼	07/27/17 05:30	07/27/17 13:11	1
Carbon tetrachloride	ND		0.0045	0.0030	mg/Kg	☼	07/27/17 05:30	07/27/17 13:11	1
Chlorobenzene	ND		0.0045	0.0014	mg/Kg	☼	07/27/17 05:30	07/27/17 13:11	1
Chloroform	ND		0.0045	0.0019	mg/Kg	☼	07/27/17 05:30	07/27/17 13:11	1
cis-1,2-Dichloroethene	ND		0.0045	0.0014	mg/Kg	☼	07/27/17 05:30	07/27/17 13:11	1
1,2-Dichlorobenzene	ND		0.0045	0.0036	mg/Kg	☼	07/27/17 05:30	07/27/17 13:11	1
1,3-Dichlorobenzene	ND		0.0045	0.0014	mg/Kg	☼	07/27/17 05:30	07/27/17 13:11	1
1,4-Dichlorobenzene	ND		0.0045	0.00091	mg/Kg	☼	07/27/17 05:30	07/27/17 13:11	1
1,1-Dichloroethane	ND		0.0045	0.0016	mg/Kg	☼	07/27/17 05:30	07/27/17 13:11	1
1,2-Dichloroethane	ND		0.0045	0.0013	mg/Kg	☼	07/27/17 05:30	07/27/17 13:11	1
1,1-Dichloroethene	ND		0.0045	0.0025	mg/Kg	☼	07/27/17 05:30	07/27/17 13:11	1
Ethylbenzene	ND		0.0045	0.0019	mg/Kg	☼	07/27/17 05:30	07/27/17 13:11	1
Methylene Chloride	ND		0.0045	0.0021	mg/Kg	☼	07/27/17 05:30	07/27/17 13:11	1
Methyl tert-butyl ether	ND		0.0045	0.0033	mg/Kg	☼	07/27/17 05:30	07/27/17 13:11	1
n-Butylbenzene	ND		0.0045	0.0034	mg/Kg	☼	07/27/17 05:30	07/27/17 13:11	1
N-Propylbenzene	ND		0.0045	0.0019	mg/Kg	☼	07/27/17 05:30	07/27/17 13:11	1
sec-Butylbenzene	ND		0.0045	0.0022	mg/Kg	☼	07/27/17 05:30	07/27/17 13:11	1
tert-Butylbenzene	ND		0.0045	0.0016	mg/Kg	☼	07/27/17 05:30	07/27/17 13:11	1
Tetrachloroethene	ND		0.0045	0.0018	mg/Kg	☼	07/27/17 05:30	07/27/17 13:11	1
Toluene	ND		0.0045	0.0015	mg/Kg	☼	07/27/17 05:30	07/27/17 13:11	1
trans-1,2-Dichloroethene	ND		0.0045	0.0023	mg/Kg	☼	07/27/17 05:30	07/27/17 13:11	1
1,1,1-Trichloroethane	ND		0.0045	0.0022	mg/Kg	☼	07/27/17 05:30	07/27/17 13:11	1
Trichloroethene	ND		0.0045	0.0013	mg/Kg	☼	07/27/17 05:30	07/27/17 13:11	1
1,2,4-Trimethylbenzene	ND		0.0045	0.0012	mg/Kg	☼	07/27/17 05:30	07/27/17 13:11	1
1,3,5-Trimethylbenzene	ND		0.0045	0.0015	mg/Kg	☼	07/27/17 05:30	07/27/17 13:11	1
Vinyl chloride	ND		0.0045	0.0033	mg/Kg	☼	07/27/17 05:30	07/27/17 13:11	1
Xylenes, Total	ND		0.0089	0.0038	mg/Kg	☼	07/27/17 05:30	07/27/17 13:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*63 - 120*	*07/27/17 05:30*	*07/27/17 13:11*	*1*
Dibromofluoromethane (Surr)	*104*		*68 - 121*	*07/27/17 05:30*	*07/27/17 13:11*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*52 - 124*	*07/27/17 05:30*	*07/27/17 13:11*	*1*
Toluene-d8 (Surr)	*116*		*72 - 127*	*07/27/17 05:30*	*07/27/17 13:11*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**16.4**		0.1	0.1	%			07/25/17 15:39	1
Percent Solids	**83.6**		0.1	0.1	%			07/25/17 15:39	1

Client Sample ID: WB 7-8, S3, C 072417 — Lab Sample ID: 180-68509-9

Date Collected: 07/24/17 11:30 — **Matrix: Solid**
Date Received: 07/25/17 09:15 — **Percent Solids: 77.7**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.013**		0.0086	0.0029	mg/Kg	☼	07/27/17 11:21	07/27/17 21:19	1
Acenaphthylene	**0.12**		0.0086	0.0029	mg/Kg	☼	07/27/17 11:21	07/27/17 21:19	1
Anthracene	**0.097**		0.0086	0.0032	mg/Kg	☼	07/27/17 11:21	07/27/17 21:19	1

Client Sample ID: WB 7-8, S3, C 072417 **Lab Sample ID: 180-68509-9**
Date Collected: 07/24/17 11:30 **Matrix: Solid**
Date Received: 07/25/17 09:15 **Percent Solids: 77.7**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	**0.18**		0.0086	0.0034	mg/Kg	☼	07/27/17 11:21	07/27/17 21:19	1
Benzo[a]pyrene	**0.19**		0.0086	0.0036	mg/Kg	☼	07/27/17 11:21	07/27/17 21:19	1
Benzo[b]fluoranthene	**0.27**		0.0086	0.0037	mg/Kg	☼	07/27/17 11:21	07/27/17 21:19	1
Benzo[g,h,i]perylene	**0.25**		0.0086	0.0037	mg/Kg	☼	07/27/17 11:21	07/27/17 21:19	1
Benzo[k]fluoranthene	**0.085**		0.0086	0.0030	mg/Kg	☼	07/27/17 11:21	07/27/17 21:19	1
Chrysene	**0.26**		0.0086	0.0033	mg/Kg	☼	07/27/17 11:21	07/27/17 21:19	1
Dibenz(a,h)anthracene	**0.062**		0.0086	0.0036	mg/Kg	☼	07/27/17 11:21	07/27/17 21:19	1
Dibenzofuran	**0.011**	**J**	0.042	0.0034	mg/Kg	☼	07/27/17 11:21	07/27/17 21:19	1
1,4-Dioxane	ND		0.086	0.0065	mg/Kg	☼	07/27/17 11:21	07/27/17 21:19	1
Fluoranthene	**0.31**		0.0086	0.0034	mg/Kg	☼	07/27/17 11:21	07/27/17 21:19	1
Fluorene	**0.019**		0.0086	0.0031	mg/Kg	☼	07/27/17 11:21	07/27/17 21:19	1
Hexachlorobenzene	ND		0.0086	0.0035	mg/Kg	☼	07/27/17 11:21	07/27/17 21:19	1
Indeno[1,2,3-cd]pyrene	**0.20**		0.0086	0.0033	mg/Kg	☼	07/27/17 11:21	07/27/17 21:19	1
2-Methylphenol	ND		0.042	0.0038	mg/Kg	☼	07/27/17 11:21	07/27/17 21:19	1
Methylphenol, 3 & 4	**0.019**	**J**	0.042	0.0038	mg/Kg	☼	07/27/17 11:21	07/27/17 21:19	1
Naphthalene	**0.030**		0.0086	0.0031	mg/Kg	☼	07/27/17 11:21	07/27/17 21:19	1
Pentachlorophenol	ND		0.22	0.081	mg/Kg	☼	07/27/17 11:21	07/27/17 21:19	1
Phenanthrene	**0.14**		0.0086	0.0036	mg/Kg	☼	07/27/17 11:21	07/27/17 21:19	1
Phenol	ND		0.042	0.0058	mg/Kg	☼	07/27/17 11:21	07/27/17 21:19	1
Pyrene	**0.26**		0.0086	0.0038	mg/Kg	☼	07/27/17 11:21	07/27/17 21:19	1
Hexachloroethane	ND		42	3.1	ug/Kg	☼	07/27/17 11:21	07/27/17 21:19	1
Nitrobenzene	ND		86	3.3	ug/Kg	☼	07/27/17 11:21	07/27/17 21:19	1
Hexachlorobutadiene	ND		8.6	2.7	ug/Kg	☼	07/27/17 11:21	07/27/17 21:19	1
2,4,5-Trichlorophenol	ND		42	4.1	ug/Kg	☼	07/27/17 11:21	07/27/17 21:19	1
2,4,6-Trichlorophenol	ND		42	3.8	ug/Kg	☼	07/27/17 11:21	07/27/17 21:19	1
2,4-Dinitrotoluene	ND		42	5.7	ug/Kg	☼	07/27/17 11:21	07/27/17 21:19	1
Pyridine	ND		42	4.1	ug/Kg	☼	07/27/17 11:21	07/27/17 21:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*58*		*42 - 100*	*07/27/17 11:21*	*07/27/17 21:19*	*1*
2-Fluorophenol (Surr)	*59*		*21 - 107*	*07/27/17 11:21*	*07/27/17 21:19*	*1*
Nitrobenzene-d5 (Surr)	*52*		*35 - 109*	*07/27/17 11:21*	*07/27/17 21:19*	*1*
Phenol-d5 (Surr)	*56*		*29 - 105*	*07/27/17 11:21*	*07/27/17 21:19*	*1*
Terphenyl-d14 (Surr)	*53*		*36 - 113*	*07/27/17 11:21*	*07/27/17 21:19*	*1*
2,4,6-Tribromophenol (Surr)	*74*		*20 - 134*	*07/27/17 11:21*	*07/27/17 21:19*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.021	0.011	mg/Kg	☼	07/26/17 08:33	07/27/17 01:30	1
PCB-1221	ND		0.021	0.011	mg/Kg	☼	07/26/17 08:33	07/27/17 01:30	1
PCB-1232	ND		0.021	0.0085	mg/Kg	☼	07/26/17 08:33	07/27/17 01:30	1
PCB-1242	ND		0.021	0.017	mg/Kg	☼	07/26/17 08:33	07/27/17 01:30	1
PCB-1248	**1.3**		0.021	0.010	mg/Kg	☼	07/26/17 08:33	07/27/17 01:30	1
PCB-1254	**0.46**		0.021	0.0094	mg/Kg	☼	07/26/17 08:33	07/27/17 01:30	1
PCB-1260	**0.050**		0.021	0.014	mg/Kg	☼	07/26/17 08:33	07/27/17 01:30	1
PCB-1262	ND		0.021	0.015	mg/Kg	☼	07/26/17 08:33	07/27/17 01:30	1
PCB-1268	ND		0.021	0.0065	mg/Kg	☼	07/26/17 08:33	07/27/17 01:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*61*		*23 - 150*	*07/26/17 08:33*	*07/27/17 01:30*	*1*

Client Sample ID: WB 7-8, S3, C 072417 — Lab Sample ID: 180-68509-9

Date Collected: 07/24/17 11:30 — **Matrix: Solid**
Date Received: 07/25/17 09:15 — **Percent Solids: 77.7**

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*65*		*23 - 150*	*07/26/17 08:33*	*07/27/17 01:30*	*1*
Tetrachloro-m-xylene (Surr)	*68*		*27 - 138*	*07/26/17 08:33*	*07/27/17 01:30*	*1*
Tetrachloro-m-xylene (Surr)	*65*		*27 - 138*	*07/26/17 08:33*	*07/27/17 01:30*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**7.4**		1.4	0.62	mg/Kg	☼	07/27/17 12:44	07/28/17 08:55	1
Barium	**120**		28	7.6	mg/Kg	☼	07/27/17 12:44	07/28/17 08:55	1
Beryllium	**0.45**	**J**	0.57	0.15	mg/Kg	☼	07/27/17 12:44	07/28/17 08:55	1
Cadmium	**0.26**	**J**	0.71	0.16	mg/Kg	☼	07/27/17 12:44	07/28/17 08:55	1
Chromium	**14**		0.71	0.18	mg/Kg	☼	07/27/17 12:44	07/28/17 08:55	1
Copper	**33**		3.5	1.1	mg/Kg	☼	07/27/17 12:44	07/28/17 08:55	1
Lead	**46**		1.4	0.46	mg/Kg	☼	07/27/17 12:44	07/28/17 08:55	1
Manganese	**510**		2.1	0.57	mg/Kg	☼	07/27/17 12:44	07/28/17 08:55	1
Nickel	**39**		5.7	1.3	mg/Kg	☼	07/27/17 12:44	07/28/17 08:55	1
Selenium	ND		1.4	0.56	mg/Kg	☼	07/27/17 12:44	07/28/17 08:55	1
Silver	ND		0.71	0.23	mg/Kg	☼	07/27/17 12:44	07/28/17 08:55	1
Zinc	**110**		2.8	1.4	mg/Kg	☼	07/27/17 12:44	07/28/17 08:55	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.060**		0.039	0.0086	mg/Kg	☼	07/26/17 05:04	07/26/17 09:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**22.3**		0.1	0.1	%			07/25/17 15:39	1
Percent Solids	**77.7**		0.1	0.1	%			07/25/17 15:39	1
Cyanide, Total	**0.40**	**J**	0.64	0.20	mg/Kg	☼	07/27/17 11:19	07/27/17 14:52	1

Client Sample ID: WB 7-8, S4, A 072417 — Lab Sample ID: 180-68509-10

Date Collected: 07/24/17 12:05 — **Matrix: Solid**
Date Received: 07/25/17 09:15 — **Percent Solids: 71.2**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.026	0.0041	mg/Kg	☼	07/27/17 05:30	07/27/17 13:34	1
Benzene	ND		0.0065	0.0025	mg/Kg	☼	07/27/17 05:30	07/27/17 13:34	1
2-Butanone (MEK)	ND		0.0065	0.0038	mg/Kg	☼	07/27/17 05:30	07/27/17 13:34	1
Carbon tetrachloride	ND		0.0065	0.0043	mg/Kg	☼	07/27/17 05:30	07/27/17 13:34	1
Chlorobenzene	ND		0.0065	0.0020	mg/Kg	☼	07/27/17 05:30	07/27/17 13:34	1
Chloroform	ND		0.0065	0.0027	mg/Kg	☼	07/27/17 05:30	07/27/17 13:34	1
cis-1,2-Dichloroethene	ND		0.0065	0.0020	mg/Kg	☼	07/27/17 05:30	07/27/17 13:34	1
1,2-Dichlorobenzene	ND		0.0065	0.0052	mg/Kg	☼	07/27/17 05:30	07/27/17 13:34	1
1,3-Dichlorobenzene	ND		0.0065	0.0021	mg/Kg	☼	07/27/17 05:30	07/27/17 13:34	1
1,4-Dichlorobenzene	ND		0.0065	0.0013	mg/Kg	☼	07/27/17 05:30	07/27/17 13:34	1
1,1-Dichloroethane	ND		0.0065	0.0023	mg/Kg	☼	07/27/17 05:30	07/27/17 13:34	1
1,2-Dichloroethane	ND		0.0065	0.0019	mg/Kg	☼	07/27/17 05:30	07/27/17 13:34	1
1,1-Dichloroethene	ND		0.0065	0.0037	mg/Kg	☼	07/27/17 05:30	07/27/17 13:34	1
Ethylbenzene	ND		0.0065	0.0028	mg/Kg	☼	07/27/17 05:30	07/27/17 13:34	1
Methylene Chloride	ND		0.0065	0.0031	mg/Kg	☼	07/27/17 05:30	07/27/17 13:34	1

Client Sample ID: WB 7-8, S4, A 072417 — Lab Sample ID: 180-68509-10

Date Collected: 07/24/17 12:05 — **Matrix: Solid**
Date Received: 07/25/17 09:15 — **Percent Solids: 71.2**

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.0065	0.0048	mg/Kg	☼	07/27/17 05:30	07/27/17 13:34	1
n-Butylbenzene	ND		0.0065	0.0049	mg/Kg	☼	07/27/17 05:30	07/27/17 13:34	1
N-Propylbenzene	ND		0.0065	0.0027	mg/Kg	☼	07/27/17 05:30	07/27/17 13:34	1
sec-Butylbenzene	ND		0.0065	0.0032	mg/Kg	☼	07/27/17 05:30	07/27/17 13:34	1
tert-Butylbenzene	ND		0.0065	0.0024	mg/Kg	☼	07/27/17 05:30	07/27/17 13:34	1
Tetrachloroethene	ND		0.0065	0.0026	mg/Kg	☼	07/27/17 05:30	07/27/17 13:34	1
Toluene	ND		0.0065	0.0022	mg/Kg	☼	07/27/17 05:30	07/27/17 13:34	1
trans-1,2-Dichloroethene	ND		0.0065	0.0033	mg/Kg	☼	07/27/17 05:30	07/27/17 13:34	1
1,1,1-Trichloroethane	ND		0.0065	0.0032	mg/Kg	☼	07/27/17 05:30	07/27/17 13:34	1
Trichloroethene	ND		0.0065	0.0019	mg/Kg	☼	07/27/17 05:30	07/27/17 13:34	1
1,2,4-Trimethylbenzene	ND		0.0065	0.0017	mg/Kg	☼	07/27/17 05:30	07/27/17 13:34	1
1,3,5-Trimethylbenzene	ND		0.0065	0.0022	mg/Kg	☼	07/27/17 05:30	07/27/17 13:34	1
Vinyl chloride	ND		0.0065	0.0048	mg/Kg	☼	07/27/17 05:30	07/27/17 13:34	1
Xylenes, Total	ND		0.013	0.0056	mg/Kg	☼	07/27/17 05:30	07/27/17 13:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*63 - 120*	*07/27/17 05:30*	*07/27/17 13:34*	*1*
Dibromofluoromethane (Surr)	*101*		*68 - 121*	*07/27/17 05:30*	*07/27/17 13:34*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*52 - 124*	*07/27/17 05:30*	*07/27/17 13:34*	*1*
Toluene-d8 (Surr)	*113*		*72 - 127*	*07/27/17 05:30*	*07/27/17 13:34*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**28.8**		0.1	0.1	%			07/25/17 15:39	1
Percent Solids	**71.2**		0.1	0.1	%			07/25/17 15:39	1

Client Sample ID: WB 7-8, S4, B 072417 — Lab Sample ID: 180-68509-11

Date Collected: 07/24/17 12:10 — **Matrix: Solid**
Date Received: 07/25/17 09:15 — **Percent Solids: 62.4**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.029	0.0046	mg/Kg	☼	07/27/17 05:30	07/27/17 13:57	1
Benzene	ND		0.0073	0.0028	mg/Kg	☼	07/27/17 05:30	07/27/17 13:57	1
2-Butanone (MEK)	ND		0.0073	0.0042	mg/Kg	☼	07/27/17 05:30	07/27/17 13:57	1
Carbon tetrachloride	ND		0.0073	0.0048	mg/Kg	☼	07/27/17 05:30	07/27/17 13:57	1
Chlorobenzene	ND		0.0073	0.0023	mg/Kg	☼	07/27/17 05:30	07/27/17 13:57	1
Chloroform	ND		0.0073	0.0031	mg/Kg	☼	07/27/17 05:30	07/27/17 13:57	1
cis-1,2-Dichloroethene	ND		0.0073	0.0023	mg/Kg	☼	07/27/17 05:30	07/27/17 13:57	1
1,2-Dichlorobenzene	ND		0.0073	0.0058	mg/Kg	☼	07/27/17 05:30	07/27/17 13:57	1
1,3-Dichlorobenzene	ND		0.0073	0.0023	mg/Kg	☼	07/27/17 05:30	07/27/17 13:57	1
1,4-Dichlorobenzene	ND		0.0073	0.0015	mg/Kg	☼	07/27/17 05:30	07/27/17 13:57	1
1,1-Dichloroethane	ND		0.0073	0.0026	mg/Kg	☼	07/27/17 05:30	07/27/17 13:57	1
1,2-Dichloroethane	ND		0.0073	0.0021	mg/Kg	☼	07/27/17 05:30	07/27/17 13:57	1
1,1-Dichloroethene	ND		0.0073	0.0041	mg/Kg	☼	07/27/17 05:30	07/27/17 13:57	1
Ethylbenzene	ND		0.0073	0.0031	mg/Kg	☼	07/27/17 05:30	07/27/17 13:57	1
Methylene Chloride	ND		0.0073	0.0034	mg/Kg	☼	07/27/17 05:30	07/27/17 13:57	1
Methyl tert-butyl ether	ND		0.0073	0.0053	mg/Kg	☼	07/27/17 05:30	07/27/17 13:57	1
n-Butylbenzene	ND		0.0073	0.0055	mg/Kg	☼	07/27/17 05:30	07/27/17 13:57	1
N-Propylbenzene	ND		0.0073	0.0031	mg/Kg	☼	07/27/17 05:30	07/27/17 13:57	1

Client Sample ID: WB 7-8, S4, B 072417 — Lab Sample ID: 180-68509-11

Date Collected: 07/24/17 12:10 — **Matrix: Solid**
Date Received: 07/25/17 09:15 — **Percent Solids: 62.4**

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		0.0073	0.0035	mg/Kg	☼	07/27/17 05:30	07/27/17 13:57	1
tert-Butylbenzene	ND		0.0073	0.0027	mg/Kg	☼	07/27/17 05:30	07/27/17 13:57	1
Tetrachloroethene	ND		0.0073	0.0029	mg/Kg	☼	07/27/17 05:30	07/27/17 13:57	1
Toluene	ND		0.0073	0.0024	mg/Kg	☼	07/27/17 05:30	07/27/17 13:57	1
trans-1,2-Dichloroethene	ND		0.0073	0.0037	mg/Kg	☼	07/27/17 05:30	07/27/17 13:57	1
1,1,1-Trichloroethane	ND		0.0073	0.0036	mg/Kg	☼	07/27/17 05:30	07/27/17 13:57	1
Trichloroethene	ND		0.0073	0.0022	mg/Kg	☼	07/27/17 05:30	07/27/17 13:57	1
1,2,4-Trimethylbenzene	ND		0.0073	0.0020	mg/Kg	☼	07/27/17 05:30	07/27/17 13:57	1
1,3,5-Trimethylbenzene	ND		0.0073	0.0025	mg/Kg	☼	07/27/17 05:30	07/27/17 13:57	1
Vinyl chloride	ND		0.0073	0.0053	mg/Kg	☼	07/27/17 05:30	07/27/17 13:57	1
Xylenes, Total	ND		0.015	0.0063	mg/Kg	☼	07/27/17 05:30	07/27/17 13:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*63 - 120*	*07/27/17 05:30*	*07/27/17 13:57*	*1*
Dibromofluoromethane (Surr)	*97*		*68 - 121*	*07/27/17 05:30*	*07/27/17 13:57*	*1*
1,2-Dichloroethane-d4 (Surr)	*90*		*52 - 124*	*07/27/17 05:30*	*07/27/17 13:57*	*1*
Toluene-d8 (Surr)	*109*		*72 - 127*	*07/27/17 05:30*	*07/27/17 13:57*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**37.6**		0.1	0.1	%			07/25/17 15:39	1
Percent Solids	**62.4**		0.1	0.1	%			07/25/17 15:39	1

Client Sample ID: WB 7-8, S4, C 072417 — Lab Sample ID: 180-68509-12

Date Collected: 07/24/17 12:15 — **Matrix: Solid**
Date Received: 07/25/17 09:15 — **Percent Solids: 71.8**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.0089**	**J**	0.0093	0.0031	mg/Kg	☼	07/27/17 11:21	07/27/17 21:46	1
Acenaphthylene	**0.052**		0.0093	0.0032	mg/Kg	☼	07/27/17 11:21	07/27/17 21:46	1
Anthracene	**0.050**		0.0093	0.0034	mg/Kg	☼	07/27/17 11:21	07/27/17 21:46	1
Benzo[a]anthracene	**0.12**		0.0093	0.0037	mg/Kg	☼	07/27/17 11:21	07/27/17 21:46	1
Benzo[a]pyrene	**0.13**		0.0093	0.0038	mg/Kg	☼	07/27/17 11:21	07/27/17 21:46	1
Benzo[b]fluoranthene	**0.17**		0.0093	0.0040	mg/Kg	☼	07/27/17 11:21	07/27/17 21:46	1
Benzo[g,h,i]perylene	**0.14**		0.0093	0.0040	mg/Kg	☼	07/27/17 11:21	07/27/17 21:46	1
Benzo[k]fluoranthene	**0.058**		0.0093	0.0032	mg/Kg	☼	07/27/17 11:21	07/27/17 21:46	1
Chrysene	**0.13**		0.0093	0.0036	mg/Kg	☼	07/27/17 11:21	07/27/17 21:46	1
Dibenz(a,h)anthracene	**0.037**		0.0093	0.0038	mg/Kg	☼	07/27/17 11:21	07/27/17 21:46	1
Dibenzofuran	**0.0078**	**J**	0.046	0.0037	mg/Kg	☼	07/27/17 11:21	07/27/17 21:46	1
1,4-Dioxane	ND		0.093	0.0070	mg/Kg	☼	07/27/17 11:21	07/27/17 21:46	1
Fluoranthene	**0.23**		0.0093	0.0037	mg/Kg	☼	07/27/17 11:21	07/27/17 21:46	1
Fluorene	**0.013**		0.0093	0.0033	mg/Kg	☼	07/27/17 11:21	07/27/17 21:46	1
Hexachlorobenzene	ND		0.0093	0.0037	mg/Kg	☼	07/27/17 11:21	07/27/17 21:46	1
Indeno[1,2,3-cd]pyrene	**0.12**		0.0093	0.0036	mg/Kg	☼	07/27/17 11:21	07/27/17 21:46	1
2-Methylphenol	ND		0.046	0.0041	mg/Kg	☼	07/27/17 11:21	07/27/17 21:46	1
Methylphenol, 3 & 4	**0.0074**	**J**	0.046	0.0041	mg/Kg	☼	07/27/17 11:21	07/27/17 21:46	1
Naphthalene	**0.016**		0.0093	0.0033	mg/Kg	☼	07/27/17 11:21	07/27/17 21:46	1
Pentachlorophenol	ND		0.24	0.088	mg/Kg	☼	07/27/17 11:21	07/27/17 21:46	1
Phenanthrene	**0.10**		0.0093	0.0039	mg/Kg	☼	07/27/17 11:21	07/27/17 21:46	1

Client Sample ID: WB 7-8, S4, C 072417 **Lab Sample ID: 180-68509-12**
Date Collected: 07/24/17 12:15 **Matrix: Solid**
Date Received: 07/25/17 09:15 **Percent Solids: 71.8**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		0.046	0.0063	mg/Kg	☼	07/27/17 11:21	07/27/17 21:46	1
Pyrene	**0.17**		0.0093	0.0041	mg/Kg	☼	07/27/17 11:21	07/27/17 21:46	1
Hexachloroethane	ND		46	3.3	ug/Kg	☼	07/27/17 11:21	07/27/17 21:46	1
Nitrobenzene	ND		93	3.6	ug/Kg	☼	07/27/17 11:21	07/27/17 21:46	1
Hexachlorobutadiene	ND		9.3	2.9	ug/Kg	☼	07/27/17 11:21	07/27/17 21:46	1
2,4,5-Trichlorophenol	ND		46	4.4	ug/Kg	☼	07/27/17 11:21	07/27/17 21:46	1
2,4,6-Trichlorophenol	ND		46	4.1	ug/Kg	☼	07/27/17 11:21	07/27/17 21:46	1
2,4-Dinitrotoluene	ND		46	6.2	ug/Kg	☼	07/27/17 11:21	07/27/17 21:46	1
Pyridine	ND		46	4.4	ug/Kg	☼	07/27/17 11:21	07/27/17 21:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*45*		*42 - 100*	*07/27/17 11:21*	*07/27/17 21:46*	*1*
2-Fluorophenol (Surr)	*49*		*21 - 107*	*07/27/17 11:21*	*07/27/17 21:46*	*1*
Nitrobenzene-d5 (Surr)	*43*		*35 - 109*	*07/27/17 11:21*	*07/27/17 21:46*	*1*
Phenol-d5 (Surr)	*46*		*29 - 105*	*07/27/17 11:21*	*07/27/17 21:46*	*1*
Terphenyl-d14 (Surr)	*41*		*36 - 113*	*07/27/17 11:21*	*07/27/17 21:46*	*1*
2,4,6-Tribromophenol (Surr)	*57*		*20 - 134*	*07/27/17 11:21*	*07/27/17 21:46*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.023	0.012	mg/Kg	☼	07/26/17 08:33	07/27/17 01:50	1
PCB-1221	ND		0.023	0.012	mg/Kg	☼	07/26/17 08:33	07/27/17 01:50	1
PCB-1232	ND		0.023	0.0091	mg/Kg	☼	07/26/17 08:33	07/27/17 01:50	1
PCB-1242	ND		0.023	0.018	mg/Kg	☼	07/26/17 08:33	07/27/17 01:50	1
PCB-1248	**1.0**		0.023	0.011	mg/Kg	☼	07/26/17 08:33	07/27/17 01:50	1
PCB-1254	**0.42**		0.023	0.010	mg/Kg	☼	07/26/17 08:33	07/27/17 01:50	1
PCB-1260	**0.040**		0.023	0.015	mg/Kg	☼	07/26/17 08:33	07/27/17 01:50	1
PCB-1262	ND		0.023	0.016	mg/Kg	☼	07/26/17 08:33	07/27/17 01:50	1
PCB-1268	ND		0.023	0.0070	mg/Kg	☼	07/26/17 08:33	07/27/17 01:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*66*		*23 - 150*	*07/26/17 08:33*	*07/27/17 01:50*	*1*
DCB Decachlorobiphenyl (Surr)	*65*		*23 - 150*	*07/26/17 08:33*	*07/27/17 01:50*	*1*
Tetrachloro-m-xylene (Surr)	*65*		*27 - 138*	*07/26/17 08:33*	*07/27/17 01:50*	*1*
Tetrachloro-m-xylene (Surr)	*66*		*27 - 138*	*07/26/17 08:33*	*07/27/17 01:50*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**5.9**		1.3	0.59	mg/Kg	☼	07/27/17 12:44	07/28/17 09:00	1
Barium	**95**		27	7.1	mg/Kg	☼	07/27/17 12:44	07/28/17 09:00	1
Beryllium	**0.34**	**J**	0.53	0.14	mg/Kg	☼	07/27/17 12:44	07/28/17 09:00	1
Cadmium	**0.19**	**J**	0.66	0.15	mg/Kg	☼	07/27/17 12:44	07/28/17 09:00	1
Chromium	**9.6**		0.66	0.17	mg/Kg	☼	07/27/17 12:44	07/28/17 09:00	1
Copper	**21**		3.3	1.0	mg/Kg	☼	07/27/17 12:44	07/28/17 09:00	1
Lead	**35**		1.3	0.44	mg/Kg	☼	07/27/17 12:44	07/28/17 09:00	1
Manganese	**450**		2.0	0.54	mg/Kg	☼	07/27/17 12:44	07/28/17 09:00	1
Nickel	**17**		5.3	1.2	mg/Kg	☼	07/27/17 12:44	07/28/17 09:00	1
Selenium	ND		1.3	0.53	mg/Kg	☼	07/27/17 12:44	07/28/17 09:00	1
Silver	ND		0.66	0.22	mg/Kg	☼	07/27/17 12:44	07/28/17 09:00	1
Zinc	**55**		2.7	1.3	mg/Kg	☼	07/27/17 12:44	07/28/17 09:00	1

Client Sample ID: WB 7-8, S4, C 072417

Lab Sample ID: 180-68509-12
Date Collected: 07/24/17 12:15
Matrix: Solid
Date Received: 07/25/17 09:15
Percent Solids: 71.8

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.048		0.044	0.0098	mg/Kg	☼	07/26/17 05:04	07/26/17 09:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	28.2		0.1	0.1	%			07/25/17 15:39	1
Percent Solids	71.8		0.1	0.1	%			07/25/17 15:39	1
Cyanide, Total	0.75		0.69	0.21	mg/Kg	☼	07/27/17 11:19	07/27/17 14:54	1

Client Sample ID: W9, S1, A 072417

Lab Sample ID: 180-68509-13
Date Collected: 07/24/17 13:10
Matrix: Solid
Date Received: 07/25/17 09:15
Percent Solids: 94.1

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.017	0.0028	mg/Kg	☼	07/27/17 05:30	07/27/17 14:20	1
Benzene	ND		0.0044	0.0017	mg/Kg	☼	07/27/17 05:30	07/27/17 14:20	1
2-Butanone (MEK)	ND		0.0044	0.0025	mg/Kg	☼	07/27/17 05:30	07/27/17 14:20	1
Carbon tetrachloride	ND		0.0044	0.0029	mg/Kg	☼	07/27/17 05:30	07/27/17 14:20	1
Chlorobenzene	ND		0.0044	0.0014	mg/Kg	☼	07/27/17 05:30	07/27/17 14:20	1
Chloroform	ND		0.0044	0.0018	mg/Kg	☼	07/27/17 05:30	07/27/17 14:20	1
cis-1,2-Dichloroethene	ND		0.0044	0.0014	mg/Kg	☼	07/27/17 05:30	07/27/17 14:20	1
1,2-Dichlorobenzene	ND		0.0044	0.0035	mg/Kg	☼	07/27/17 05:30	07/27/17 14:20	1
1,3-Dichlorobenzene	ND		0.0044	0.0014	mg/Kg	☼	07/27/17 05:30	07/27/17 14:20	1
1,4-Dichlorobenzene	ND		0.0044	0.00089	mg/Kg	☼	07/27/17 05:30	07/27/17 14:20	1
1,1-Dichloroethane	ND		0.0044	0.0016	mg/Kg	☼	07/27/17 05:30	07/27/17 14:20	1
1,2-Dichloroethane	ND		0.0044	0.0013	mg/Kg	☼	07/27/17 05:30	07/27/17 14:20	1
1,1-Dichloroethene	ND		0.0044	0.0025	mg/Kg	☼	07/27/17 05:30	07/27/17 14:20	1
Ethylbenzene	ND		0.0044	0.0019	mg/Kg	☼	07/27/17 05:30	07/27/17 14:20	1
Methylene Chloride	ND		0.0044	0.0021	mg/Kg	☼	07/27/17 05:30	07/27/17 14:20	1
Methyl tert-butyl ether	ND		0.0044	0.0032	mg/Kg	☼	07/27/17 05:30	07/27/17 14:20	1
n-Butylbenzene	ND		0.0044	0.0033	mg/Kg	☼	07/27/17 05:30	07/27/17 14:20	1
N-Propylbenzene	ND		0.0044	0.0018	mg/Kg	☼	07/27/17 05:30	07/27/17 14:20	1
sec-Butylbenzene	ND		0.0044	0.0021	mg/Kg	☼	07/27/17 05:30	07/27/17 14:20	1
tert-Butylbenzene	ND		0.0044	0.0016	mg/Kg	☼	07/27/17 05:30	07/27/17 14:20	1
Tetrachloroethene	ND		0.0044	0.0017	mg/Kg	☼	07/27/17 05:30	07/27/17 14:20	1
Toluene	ND		0.0044	0.0015	mg/Kg	☼	07/27/17 05:30	07/27/17 14:20	1
trans-1,2-Dichloroethene	ND		0.0044	0.0022	mg/Kg	☼	07/27/17 05:30	07/27/17 14:20	1
1,1,1-Trichloroethane	ND		0.0044	0.0022	mg/Kg	☼	07/27/17 05:30	07/27/17 14:20	1
Trichloroethene	ND		0.0044	0.0013	mg/Kg	☼	07/27/17 05:30	07/27/17 14:20	1
1,2,4-Trimethylbenzene	ND		0.0044	0.0012	mg/Kg	☼	07/27/17 05:30	07/27/17 14:20	1
1,3,5-Trimethylbenzene	ND		0.0044	0.0015	mg/Kg	☼	07/27/17 05:30	07/27/17 14:20	1
Vinyl chloride	ND		0.0044	0.0032	mg/Kg	☼	07/27/17 05:30	07/27/17 14:20	1
Xylenes, Total	ND		0.0087	0.0038	mg/Kg	☼	07/27/17 05:30	07/27/17 14:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*63 - 120*	*07/27/17 05:30*	*07/27/17 14:20*	*1*
Dibromofluoromethane (Surr)	*92*		*68 - 121*	*07/27/17 05:30*	*07/27/17 14:20*	*1*
1,2-Dichloroethane-d4 (Surr)	*84*		*52 - 124*	*07/27/17 05:30*	*07/27/17 14:20*	*1*
Toluene-d8 (Surr)	*101*		*72 - 127*	*07/27/17 05:30*	*07/27/17 14:20*	*1*

Client Sample ID: W9, S1, A 072417 — Lab Sample ID: 180-68509-13

Date Collected: 07/24/17 13:10 — **Matrix: Solid**
Date Received: 07/25/17 09:15 — **Percent Solids: 94.1**

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	5.9		0.1	0.1	%			07/25/17 15:39	1
Percent Solids	94.1		0.1	0.1	%			07/25/17 15:39	1

Client Sample ID: W9, S1, B 072417 — Lab Sample ID: 180-68509-14

Date Collected: 07/24/17 13:15 — **Matrix: Solid**
Date Received: 07/25/17 09:15 — **Percent Solids: 94.2**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.018	0.0029	mg/Kg	☼	07/27/17 05:30	07/27/17 14:42	1
Benzene	ND		0.0046	0.0018	mg/Kg	☼	07/27/17 05:30	07/27/17 14:42	1
2-Butanone (MEK)	ND		0.0046	0.0026	mg/Kg	☼	07/27/17 05:30	07/27/17 14:42	1
Carbon tetrachloride	ND		0.0046	0.0030	mg/Kg	☼	07/27/17 05:30	07/27/17 14:42	1
Chlorobenzene	ND		0.0046	0.0014	mg/Kg	☼	07/27/17 05:30	07/27/17 14:42	1
Chloroform	ND		0.0046	0.0019	mg/Kg	☼	07/27/17 05:30	07/27/17 14:42	1
cis-1,2-Dichloroethene	ND		0.0046	0.0014	mg/Kg	☼	07/27/17 05:30	07/27/17 14:42	1
1,2-Dichlorobenzene	ND		0.0046	0.0037	mg/Kg	☼	07/27/17 05:30	07/27/17 14:42	1
1,3-Dichlorobenzene	ND		0.0046	0.0015	mg/Kg	☼	07/27/17 05:30	07/27/17 14:42	1
1,4-Dichlorobenzene	ND		0.0046	0.00093	mg/Kg	☼	07/27/17 05:30	07/27/17 14:42	1
1,1-Dichloroethane	ND		0.0046	0.0017	mg/Kg	☼	07/27/17 05:30	07/27/17 14:42	1
1,2-Dichloroethane	ND		0.0046	0.0013	mg/Kg	☼	07/27/17 05:30	07/27/17 14:42	1
1,1-Dichloroethene	ND		0.0046	0.0026	mg/Kg	☼	07/27/17 05:30	07/27/17 14:42	1
Ethylbenzene	ND		0.0046	0.0020	mg/Kg	☼	07/27/17 05:30	07/27/17 14:42	1
Methylene Chloride	ND		0.0046	0.0022	mg/Kg	☼	07/27/17 05:30	07/27/17 14:42	1
Methyl tert-butyl ether	ND		0.0046	0.0034	mg/Kg	☼	07/27/17 05:30	07/27/17 14:42	1
n-Butylbenzene	ND		0.0046	0.0035	mg/Kg	☼	07/27/17 05:30	07/27/17 14:42	1
N-Propylbenzene	ND		0.0046	0.0019	mg/Kg	☼	07/27/17 05:30	07/27/17 14:42	1
sec-Butylbenzene	ND		0.0046	0.0022	mg/Kg	☼	07/27/17 05:30	07/27/17 14:42	1
tert-Butylbenzene	ND		0.0046	0.0017	mg/Kg	☼	07/27/17 05:30	07/27/17 14:42	1
Tetrachloroethene	ND		0.0046	0.0018	mg/Kg	☼	07/27/17 05:30	07/27/17 14:42	1
Toluene	ND		0.0046	0.0015	mg/Kg	☼	07/27/17 05:30	07/27/17 14:42	1
trans-1,2-Dichloroethene	ND		0.0046	0.0023	mg/Kg	☼	07/27/17 05:30	07/27/17 14:42	1
1,1,1-Trichloroethane	ND		0.0046	0.0023	mg/Kg	☼	07/27/17 05:30	07/27/17 14:42	1
Trichloroethene	ND		0.0046	0.0014	mg/Kg	☼	07/27/17 05:30	07/27/17 14:42	1
1,2,4-Trimethylbenzene	ND		0.0046	0.0012	mg/Kg	☼	07/27/17 05:30	07/27/17 14:42	1
1,3,5-Trimethylbenzene	ND		0.0046	0.0016	mg/Kg	☼	07/27/17 05:30	07/27/17 14:42	1
Vinyl chloride	ND		0.0046	0.0033	mg/Kg	☼	07/27/17 05:30	07/27/17 14:42	1
Xylenes, Total	ND		0.0091	0.0039	mg/Kg	☼	07/27/17 05:30	07/27/17 14:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*63 - 120*	*07/27/17 05:30*	*07/27/17 14:42*	*1*
Dibromofluoromethane (Surr)	*101*		*68 - 121*	*07/27/17 05:30*	*07/27/17 14:42*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*52 - 124*	*07/27/17 05:30*	*07/27/17 14:42*	*1*
Toluene-d8 (Surr)	*110*		*72 - 127*	*07/27/17 05:30*	*07/27/17 14:42*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	5.8		0.1	0.1	%			07/25/17 15:39	1
Percent Solids	94.2		0.1	0.1	%			07/25/17 15:39	1

Client Sample ID: W9, S1, C 072417 **Lab Sample ID: 180-68509-15**
Date Collected: 07/24/17 13:20 **Matrix: Solid**
Date Received: 07/25/17 09:15 **Percent Solids: 92.1**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.021**	**J**	0.022	0.0073	mg/Kg	☼	07/27/17 11:21	07/27/17 22:13	3
Acenaphthylene	**0.052**		0.022	0.0074	mg/Kg	☼	07/27/17 11:21	07/27/17 22:13	3
Anthracene	**0.077**		0.022	0.0080	mg/Kg	☼	07/27/17 11:21	07/27/17 22:13	3
Benzo[a]anthracene	**0.29**		0.022	0.0086	mg/Kg	☼	07/27/17 11:21	07/27/17 22:13	3
Benzo[a]pyrene	**0.31**		0.022	0.0090	mg/Kg	☼	07/27/17 11:21	07/27/17 22:13	3
Benzo[b]fluoranthene	**0.41**		0.022	0.0094	mg/Kg	☼	07/27/17 11:21	07/27/17 22:13	3
Benzo[g,h,i]perylene	**0.34**		0.022	0.0094	mg/Kg	☼	07/27/17 11:21	07/27/17 22:13	3
Benzo[k]fluoranthene	**0.14**		0.022	0.0075	mg/Kg	☼	07/27/17 11:21	07/27/17 22:13	3
Chrysene	**0.36**		0.022	0.0085	mg/Kg	☼	07/27/17 11:21	07/27/17 22:13	3
Dibenz(a,h)anthracene	**0.084**		0.022	0.0090	mg/Kg	☼	07/27/17 11:21	07/27/17 22:13	3
Dibenzofuran	**0.027**	**J**	0.11	0.0087	mg/Kg	☼	07/27/17 11:21	07/27/17 22:13	3
1,4-Dioxane	ND		0.22	0.016	mg/Kg	☼	07/27/17 11:21	07/27/17 22:13	3
Fluoranthene	**0.65**		0.022	0.0086	mg/Kg	☼	07/27/17 11:21	07/27/17 22:13	3
Fluorene	**0.026**		0.022	0.0077	mg/Kg	☼	07/27/17 11:21	07/27/17 22:13	3
Hexachlorobenzene	ND		0.022	0.0087	mg/Kg	☼	07/27/17 11:21	07/27/17 22:13	3
Indeno[1,2,3-cd]pyrene	**0.31**		0.022	0.0084	mg/Kg	☼	07/27/17 11:21	07/27/17 22:13	3
2-Methylphenol	ND		0.11	0.0096	mg/Kg	☼	07/27/17 11:21	07/27/17 22:13	3
Methylphenol, 3 & 4	ND		0.11	0.0096	mg/Kg	☼	07/27/17 11:21	07/27/17 22:13	3
Naphthalene	**0.047**		0.022	0.0078	mg/Kg	☼	07/27/17 11:21	07/27/17 22:13	3
Pentachlorophenol	ND		0.55	0.21	mg/Kg	☼	07/27/17 11:21	07/27/17 22:13	3
Phenanthrene	**0.28**		0.022	0.0091	mg/Kg	☼	07/27/17 11:21	07/27/17 22:13	3
Phenol	ND		0.11	0.015	mg/Kg	☼	07/27/17 11:21	07/27/17 22:13	3
Pyrene	**0.45**		0.022	0.0097	mg/Kg	☼	07/27/17 11:21	07/27/17 22:13	3
Hexachloroethane	ND		110	7.8	ug/Kg	☼	07/27/17 11:21	07/27/17 22:13	3
Nitrobenzene	ND		220	8.3	ug/Kg	☼	07/27/17 11:21	07/27/17 22:13	3
Hexachlorobutadiene	ND		22	6.8	ug/Kg	☼	07/27/17 11:21	07/27/17 22:13	3
2,4,5-Trichlorophenol	ND		110	10	ug/Kg	☼	07/27/17 11:21	07/27/17 22:13	3
2,4,6-Trichlorophenol	ND		110	9.5	ug/Kg	☼	07/27/17 11:21	07/27/17 22:13	3
2,4-Dinitrotoluene	ND		110	14	ug/Kg	☼	07/27/17 11:21	07/27/17 22:13	3
Pyridine	ND		110	10	ug/Kg	☼	07/27/17 11:21	07/27/17 22:13	3

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*72*		*42 - 100*	*07/27/17 11:21*	*07/27/17 22:13*	*3*
2-Fluorophenol (Surr)	*62*		*21 - 107*	*07/27/17 11:21*	*07/27/17 22:13*	*3*
Nitrobenzene-d5 (Surr)	*62*		*35 - 109*	*07/27/17 11:21*	*07/27/17 22:13*	*3*
Phenol-d5 (Surr)	*64*		*29 - 105*	*07/27/17 11:21*	*07/27/17 22:13*	*3*
Terphenyl-d14 (Surr)	*62*		*36 - 113*	*07/27/17 11:21*	*07/27/17 22:13*	*3*
2,4,6-Tribromophenol (Surr)	*84*		*20 - 134*	*07/27/17 11:21*	*07/27/17 22:13*	*3*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.018	0.0095	mg/Kg	☼	07/26/17 08:33	07/27/17 02:11	1
PCB-1221	ND		0.018	0.0093	mg/Kg	☼	07/26/17 08:33	07/27/17 02:11	1
PCB-1232	ND		0.018	0.0071	mg/Kg	☼	07/26/17 08:33	07/27/17 02:11	1
PCB-1242	ND		0.018	0.014	mg/Kg	☼	07/26/17 08:33	07/27/17 02:11	1
PCB-1248	**0.15**		0.018	0.0086	mg/Kg	☼	07/26/17 08:33	07/27/17 02:11	1
PCB-1254	**0.053**		0.018	0.0079	mg/Kg	☼	07/26/17 08:33	07/27/17 02:11	1
PCB-1260	ND		0.018	0.012	mg/Kg	☼	07/26/17 08:33	07/27/17 02:11	1
PCB-1262	ND		0.018	0.013	mg/Kg	☼	07/26/17 08:33	07/27/17 02:11	1
PCB-1268	ND		0.018	0.0055	mg/Kg	☼	07/26/17 08:33	07/27/17 02:11	1

Client Sample ID: W9, S1, C 072417

Lab Sample ID: 180-68509-15

Date Collected: 07/24/17 13:20
Matrix: Solid
Date Received: 07/25/17 09:15
Percent Solids: 92.1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	65		23 - 150	07/26/17 08:33	07/27/17 02:11	1
DCB Decachlorobiphenyl (Surr)	70		23 - 150	07/26/17 08:33	07/27/17 02:11	1
Tetrachloro-m-xylene (Surr)	68		27 - 138	07/26/17 08:33	07/27/17 02:11	1
Tetrachloro-m-xylene (Surr)	71		27 - 138	07/26/17 08:33	07/27/17 02:11	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.7		1.1	0.50	mg/Kg	☼	07/27/17 12:44	07/28/17 09:05	1
Barium	68		23	6.1	mg/Kg	☼	07/27/17 12:44	07/28/17 09:05	1
Beryllium	0.33	J	0.45	0.12	mg/Kg	☼	07/27/17 12:44	07/28/17 09:05	1
Cadmium	0.15	J	0.57	0.13	mg/Kg	☼	07/27/17 12:44	07/28/17 09:05	1
Chromium	10		0.57	0.15	mg/Kg	☼	07/27/17 12:44	07/28/17 09:05	1
Copper	34		2.8	0.87	mg/Kg	☼	07/27/17 12:44	07/28/17 09:05	1
Lead	35		1.1	0.37	mg/Kg	☼	07/27/17 12:44	07/28/17 09:05	1
Manganese	500		1.7	0.46	mg/Kg	☼	07/27/17 12:44	07/28/17 09:05	1
Nickel	19		4.5	1.0	mg/Kg	☼	07/27/17 12:44	07/28/17 09:05	1
Selenium	ND		1.1	0.45	mg/Kg	☼	07/27/17 12:44	07/28/17 09:05	1
Silver	ND		0.57	0.19	mg/Kg	☼	07/27/17 12:44	07/28/17 09:05	1
Zinc	64		2.3	1.1	mg/Kg	☼	07/27/17 12:44	07/28/17 09:05	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.022	J	0.034	0.0076	mg/Kg	☼	07/26/17 05:04	07/26/17 09:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	7.9		0.1	0.1	%			07/25/17 15:39	1
Percent Solids	92.1		0.1	0.1	%			07/25/17 15:39	1
Cyanide, Total	0.37	J	0.53	0.16	mg/Kg	☼	07/27/17 11:19	07/27/17 14:56	1

Client Sample ID: TRIP BLANK

Lab Sample ID: 180-68509-22

Date Collected: 07/24/17 00:00
Matrix: Water
Date Received: 07/25/17 09:15

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		5.0	3.1	ug/L			07/26/17 10:33	1
Benzene	ND		1.0	0.18	ug/L			07/26/17 10:33	1
2-Butanone (MEK)	ND		5.0	2.6	ug/L			07/26/17 10:33	1
Carbon tetrachloride	ND		1.0	0.56	ug/L			07/26/17 10:33	1
Chlorobenzene	ND		1.0	0.15	ug/L			07/26/17 10:33	1
Chloroform	ND		1.0	0.27	ug/L			07/26/17 10:33	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			07/26/17 10:33	1
1,2-Dichlorobenzene	ND		1.0	0.23	ug/L			07/26/17 10:33	1
1,3-Dichlorobenzene	ND		1.0	0.21	ug/L			07/26/17 10:33	1
1,4-Dichlorobenzene	ND		1.0	0.24	ug/L			07/26/17 10:33	1
1,1-Dichloroethane	ND		1.0	0.34	ug/L			07/26/17 10:33	1
1,2-Dichloroethane	ND		1.0	0.24	ug/L			07/26/17 10:33	1
1,1-Dichloroethene	ND		1.0	0.32	ug/L			07/26/17 10:33	1
Ethylbenzene	ND		1.0	0.25	ug/L			07/26/17 10:33	1
Methylene Chloride	ND		1.0	0.94	ug/L			07/26/17 10:33	1

Client Sample ID: TRIP BLANK

Lab Sample ID: 180-68509-22
Matrix: Water
Date Collected: 07/24/17 00:00
Date Received: 07/25/17 09:15

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		1.0	0.20	ug/L			07/26/17 10:33	1
n-Butylbenzene	ND		1.0	0.22	ug/L			07/26/17 10:33	1
N-Propylbenzene	ND		1.0	0.20	ug/L			07/26/17 10:33	1
sec-Butylbenzene	ND		1.0	0.22	ug/L			07/26/17 10:33	1
tert-Butylbenzene	ND		1.0	0.17	ug/L			07/26/17 10:33	1
Tetrachloroethene	ND		1.0	0.24	ug/L			07/26/17 10:33	1
Toluene	ND		1.0	0.16	ug/L			07/26/17 10:33	1
trans-1,2-Dichloroethene	ND		1.0	0.20	ug/L			07/26/17 10:33	1
1,1,1-Trichloroethane	ND		1.0	0.27	ug/L			07/26/17 10:33	1
Trichloroethene	ND		1.0	0.20	ug/L			07/26/17 10:33	1
1,2,4-Trimethylbenzene	ND		1.0	0.18	ug/L			07/26/17 10:33	1
1,3,5-Trimethylbenzene	ND		1.0	0.17	ug/L			07/26/17 10:33	1
Vinyl chloride	ND		1.0	0.17	ug/L			07/26/17 10:33	1
Xylenes, Total	ND		2.0	0.27	ug/L			07/26/17 10:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*72 - 120*		*07/26/17 10:33*	*1*
Dibromofluoromethane (Surr)	*90*		*77 - 127*		*07/26/17 10:33*	*1*
1,2-Dichloroethane-d4 (Surr)	*81*		*72 - 134*		*07/26/17 10:33*	*1*
Toluene-d8 (Surr)	*91*		*80 - 120*		*07/26/17 10:33*	*1*

Client Sample ID: DUP 15

Lab Sample ID: 180-68509-23
Matrix: Solid
Date Collected: 07/24/17 00:00
Date Received: 07/25/17 09:15
Percent Solids: 94.1

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.016	0.0025	mg/Kg	☼	07/27/17 05:30	07/27/17 15:05	1
Benzene	ND		0.0039	0.0015	mg/Kg	☼	07/27/17 05:30	07/27/17 15:05	1
2-Butanone (MEK)	ND		0.0039	0.0023	mg/Kg	☼	07/27/17 05:30	07/27/17 15:05	1
Carbon tetrachloride	ND		0.0039	0.0026	mg/Kg	☼	07/27/17 05:30	07/27/17 15:05	1
Chlorobenzene	ND		0.0039	0.0012	mg/Kg	☼	07/27/17 05:30	07/27/17 15:05	1
Chloroform	ND		0.0039	0.0017	mg/Kg	☼	07/27/17 05:30	07/27/17 15:05	1
cis-1,2-Dichloroethene	ND		0.0039	0.0012	mg/Kg	☼	07/27/17 05:30	07/27/17 15:05	1
1,2-Dichlorobenzene	ND		0.0039	0.0032	mg/Kg	☼	07/27/17 05:30	07/27/17 15:05	1
1,3-Dichlorobenzene	ND		0.0039	0.0013	mg/Kg	☼	07/27/17 05:30	07/27/17 15:05	1
1,4-Dichlorobenzene	ND		0.0039	0.00080	mg/Kg	☼	07/27/17 05:30	07/27/17 15:05	1
1,1-Dichloroethane	ND		0.0039	0.0014	mg/Kg	☼	07/27/17 05:30	07/27/17 15:05	1
1,2-Dichloroethane	ND		0.0039	0.0011	mg/Kg	☼	07/27/17 05:30	07/27/17 15:05	1
1,1-Dichloroethene	ND		0.0039	0.0022	mg/Kg	☼	07/27/17 05:30	07/27/17 15:05	1
Ethylbenzene	ND		0.0039	0.0017	mg/Kg	☼	07/27/17 05:30	07/27/17 15:05	1
Methylene Chloride	ND		0.0039	0.0019	mg/Kg	☼	07/27/17 05:30	07/27/17 15:05	1
Methyl tert-butyl ether	ND		0.0039	0.0029	mg/Kg	☼	07/27/17 05:30	07/27/17 15:05	1
n-Butylbenzene	ND		0.0039	0.0030	mg/Kg	☼	07/27/17 05:30	07/27/17 15:05	1
N-Propylbenzene	ND		0.0039	0.0017	mg/Kg	☼	07/27/17 05:30	07/27/17 15:05	1
sec-Butylbenzene	ND		0.0039	0.0019	mg/Kg	☼	07/27/17 05:30	07/27/17 15:05	1
tert-Butylbenzene	ND		0.0039	0.0014	mg/Kg	☼	07/27/17 05:30	07/27/17 15:05	1
Tetrachloroethene	ND		0.0039	0.0016	mg/Kg	☼	07/27/17 05:30	07/27/17 15:05	1
Toluene	ND		0.0039	0.0013	mg/Kg	☼	07/27/17 05:30	07/27/17 15:05	1
trans-1,2-Dichloroethene	ND		0.0039	0.0020	mg/Kg	☼	07/27/17 05:30	07/27/17 15:05	1

Client Sample ID: DUP 15

Lab Sample ID: 180-68509-23
Date Collected: 07/24/17 00:00
Matrix: Solid
Date Received: 07/25/17 09:15
Percent Solids: 94.1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.0039	0.0020	mg/Kg	☼	07/27/17 05:30	07/27/17 15:05	1
Trichloroethene	ND		0.0039	0.0012	mg/Kg	☼	07/27/17 05:30	07/27/17 15:05	1
1,2,4-Trimethylbenzene	ND		0.0039	0.0011	mg/Kg	☼	07/27/17 05:30	07/27/17 15:05	1
1,3,5-Trimethylbenzene	ND		0.0039	0.0014	mg/Kg	☼	07/27/17 05:30	07/27/17 15:05	1
Vinyl chloride	ND		0.0039	0.0029	mg/Kg	☼	07/27/17 05:30	07/27/17 15:05	1
Xylenes, Total	ND		0.0079	0.0034	mg/Kg	☼	07/27/17 05:30	07/27/17 15:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*63 - 120*	*07/27/17 05:30*	*07/27/17 15:05*	*1*
Dibromofluoromethane (Surr)	*104*		*68 - 121*	*07/27/17 05:30*	*07/27/17 15:05*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*52 - 124*	*07/27/17 05:30*	*07/27/17 15:05*	*1*
Toluene-d8 (Surr)	*115*		*72 - 127*	*07/27/17 05:30*	*07/27/17 15:05*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**5.9**		0.1	0.1	%			07/25/17 15:39	1
Percent Solids	**94.1**		0.1	0.1	%			07/25/17 15:39	1

Client Sample ID: DUP 14

Lab Sample ID: 180-68509-24
Date Collected: 07/24/17 00:00
Matrix: Solid
Date Received: 07/25/17 09:15
Percent Solids: 68.7

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.0085**	**J**	0.020	0.0065	mg/Kg	☼	07/27/17 11:21	07/27/17 22:40	2
Acenaphthylene	**0.064**		0.020	0.0066	mg/Kg	☼	07/27/17 11:21	07/27/17 22:40	2
Anthracene	**0.056**		0.020	0.0072	mg/Kg	☼	07/27/17 11:21	07/27/17 22:40	2
Benzo[a]anthracene	**0.13**		0.020	0.0077	mg/Kg	☼	07/27/17 11:21	07/27/17 22:40	2
Benzo[a]pyrene	**0.14**		0.020	0.0080	mg/Kg	☼	07/27/17 11:21	07/27/17 22:40	2
Benzo[b]fluoranthene	**0.19**		0.020	0.0084	mg/Kg	☼	07/27/17 11:21	07/27/17 22:40	2
Benzo[g,h,i]perylene	**0.14**		0.020	0.0084	mg/Kg	☼	07/27/17 11:21	07/27/17 22:40	2
Benzo[k]fluoranthene	**0.058**		0.020	0.0067	mg/Kg	☼	07/27/17 11:21	07/27/17 22:40	2
Chrysene	**0.15**		0.020	0.0076	mg/Kg	☼	07/27/17 11:21	07/27/17 22:40	2
Dibenz(a,h)anthracene	**0.038**		0.020	0.0080	mg/Kg	☼	07/27/17 11:21	07/27/17 22:40	2
Dibenzofuran	**0.0097**	**J**	0.096	0.0078	mg/Kg	☼	07/27/17 11:21	07/27/17 22:40	2
1,4-Dioxane	ND		0.19	0.015	mg/Kg	☼	07/27/17 11:21	07/27/17 22:40	2
Fluoranthene	**0.25**		0.020	0.0077	mg/Kg	☼	07/27/17 11:21	07/27/17 22:40	2
Fluorene	**0.014**	**J**	0.020	0.0069	mg/Kg	☼	07/27/17 11:21	07/27/17 22:40	2
Hexachlorobenzene	ND		0.020	0.0078	mg/Kg	☼	07/27/17 11:21	07/27/17 22:40	2
Indeno[1,2,3-cd]pyrene	**0.13**		0.020	0.0075	mg/Kg	☼	07/27/17 11:21	07/27/17 22:40	2
2-Methylphenol	ND		0.096	0.0086	mg/Kg	☼	07/27/17 11:21	07/27/17 22:40	2
Methylphenol, 3 & 4	**0.016**	**J**	0.096	0.0086	mg/Kg	☼	07/27/17 11:21	07/27/17 22:40	2
Naphthalene	**0.016**	**J**	0.020	0.0070	mg/Kg	☼	07/27/17 11:21	07/27/17 22:40	2
Pentachlorophenol	ND		0.49	0.18	mg/Kg	☼	07/27/17 11:21	07/27/17 22:40	2
Phenanthrene	**0.095**		0.020	0.0081	mg/Kg	☼	07/27/17 11:21	07/27/17 22:40	2
Phenol	ND		0.096	0.013	mg/Kg	☼	07/27/17 11:21	07/27/17 22:40	2
Pyrene	**0.19**		0.020	0.0086	mg/Kg	☼	07/27/17 11:21	07/27/17 22:40	2
Hexachloroethane	ND		96	7.0	ug/Kg	☼	07/27/17 11:21	07/27/17 22:40	2
Nitrobenzene	ND		190	7.4	ug/Kg	☼	07/27/17 11:21	07/27/17 22:40	2
Hexachlorobutadiene	ND		20	6.1	ug/Kg	☼	07/27/17 11:21	07/27/17 22:40	2

Client Sample ID: DUP 14 **Lab Sample ID: 180-68509-24**
Date Collected: 07/24/17 00:00 **Matrix: Solid**
Date Received: 07/25/17 09:15 **Percent Solids: 68.7**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		96	9.2	ug/Kg	☼	07/27/17 11:21	07/27/17 22:40	2
2,4,6-Trichlorophenol	ND		96	8.5	ug/Kg	☼	07/27/17 11:21	07/27/17 22:40	2
2,4-Dinitrotoluene	ND		96	13	ug/Kg	☼	07/27/17 11:21	07/27/17 22:40	2
Pyridine	ND		96	9.3	ug/Kg	☼	07/27/17 11:21	07/27/17 22:40	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*60*		*42 - 100*	*07/27/17 11:21*	*07/27/17 22:40*	*2*
2-Fluorophenol (Surr)	*59*		*21 - 107*	*07/27/17 11:21*	*07/27/17 22:40*	*2*
Nitrobenzene-d5 (Surr)	*54*		*35 - 109*	*07/27/17 11:21*	*07/27/17 22:40*	*2*
Phenol-d5 (Surr)	*58*		*29 - 105*	*07/27/17 11:21*	*07/27/17 22:40*	*2*
Terphenyl-d14 (Surr)	*54*		*36 - 113*	*07/27/17 11:21*	*07/27/17 22:40*	*2*
2,4,6-Tribromophenol (Surr)	*78*		*20 - 134*	*07/27/17 11:21*	*07/27/17 22:40*	*2*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.024	0.013	mg/Kg	☼	07/26/17 08:33	07/27/17 03:36	1
PCB-1221	ND		0.024	0.012	mg/Kg	☼	07/26/17 08:33	07/27/17 03:36	1
PCB-1232	ND		0.024	0.0095	mg/Kg	☼	07/26/17 08:33	07/27/17 03:36	1
PCB-1242	ND		0.024	0.019	mg/Kg	☼	07/26/17 08:33	07/27/17 03:36	1
PCB-1248	**1.5**		0.024	0.011	mg/Kg	☼	07/26/17 08:33	07/27/17 03:36	1
PCB-1254	**0.48**		0.024	0.010	mg/Kg	☼	07/26/17 08:33	07/27/17 03:36	1
PCB-1260	**0.043**		0.024	0.016	mg/Kg	☼	07/26/17 08:33	07/27/17 03:36	1
PCB-1262	ND		0.024	0.017	mg/Kg	☼	07/26/17 08:33	07/27/17 03:36	1
PCB-1268	ND		0.024	0.0073	mg/Kg	☼	07/26/17 08:33	07/27/17 03:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*64*		*23 - 150*	*07/26/17 08:33*	*07/27/17 03:36*	*1*
DCB Decachlorobiphenyl (Surr)	*69*		*23 - 150*	*07/26/17 08:33*	*07/27/17 03:36*	*1*
Tetrachloro-m-xylene (Surr)	*68*		*27 - 138*	*07/26/17 08:33*	*07/27/17 03:36*	*1*
Tetrachloro-m-xylene (Surr)	*62*		*27 - 138*	*07/26/17 08:33*	*07/27/17 03:36*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**7.3**		1.5	0.68	mg/Kg	☼	07/27/17 12:44	07/28/17 09:11	1
Barium	**110**		31	8.3	mg/Kg	☼	07/27/17 12:44	07/28/17 09:11	1
Beryllium	**0.45**	**J**	0.62	0.16	mg/Kg	☼	07/27/17 12:44	07/28/17 09:11	1
Cadmium	**0.29**	**J**	0.77	0.17	mg/Kg	☼	07/27/17 12:44	07/28/17 09:11	1
Chromium	**12**		0.77	0.20	mg/Kg	☼	07/27/17 12:44	07/28/17 09:11	1
Copper	**26**		3.9	1.2	mg/Kg	☼	07/27/17 12:44	07/28/17 09:11	1
Lead	**41**		1.5	0.51	mg/Kg	☼	07/27/17 12:44	07/28/17 09:11	1
Manganese	**490**		2.3	0.63	mg/Kg	☼	07/27/17 12:44	07/28/17 09:11	1
Nickel	**22**		6.2	1.4	mg/Kg	☼	07/27/17 12:44	07/28/17 09:11	1
Selenium	ND		1.5	0.61	mg/Kg	☼	07/27/17 12:44	07/28/17 09:11	1
Silver	ND		0.77	0.26	mg/Kg	☼	07/27/17 12:44	07/28/17 09:11	1
Zinc	**81**		3.1	1.6	mg/Kg	☼	07/27/17 12:44	07/28/17 09:11	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.051**		0.046	0.010	mg/Kg	☼	07/26/17 05:04	07/26/17 09:30	1

Client Sample ID: DUP 14
Date Collected: 07/24/17 00:00
Date Received: 07/25/17 09:15

Lab Sample ID: 180-68509-24
Matrix: Solid
Percent Solids: 68.7

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	31.3		0.1	0.1	%			07/25/17 15:39	1
Percent Solids	68.7		0.1	0.1	%			07/25/17 15:39	1
Cyanide, Total	0.41	J	0.72	0.22	mg/Kg	☼	07/27/17 11:19	07/27/17 14:57	1

Method: 8260C - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 180-218093/6
Matrix: Water
Analysis Batch: 218093

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		5.0	3.1	ug/L			07/26/17 03:21	1
Benzene	ND		1.0	0.18	ug/L			07/26/17 03:21	1
2-Butanone (MEK)	ND		5.0	2.6	ug/L			07/26/17 03:21	1
Carbon tetrachloride	ND		1.0	0.56	ug/L			07/26/17 03:21	1
Chlorobenzene	ND		1.0	0.15	ug/L			07/26/17 03:21	1
Chloroform	ND		1.0	0.27	ug/L			07/26/17 03:21	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			07/26/17 03:21	1
1,2-Dichlorobenzene	ND		1.0	0.23	ug/L			07/26/17 03:21	1
1,3-Dichlorobenzene	ND		1.0	0.21	ug/L			07/26/17 03:21	1
1,4-Dichlorobenzene	ND		1.0	0.24	ug/L			07/26/17 03:21	1
1,1-Dichloroethane	ND		1.0	0.34	ug/L			07/26/17 03:21	1
1,2-Dichloroethane	ND		1.0	0.24	ug/L			07/26/17 03:21	1
1,1-Dichloroethene	ND		1.0	0.32	ug/L			07/26/17 03:21	1
Ethylbenzene	ND		1.0	0.25	ug/L			07/26/17 03:21	1
Methylene Chloride	ND		1.0	0.94	ug/L			07/26/17 03:21	1
Methyl tert-butyl ether	ND		1.0	0.20	ug/L			07/26/17 03:21	1
n-Butylbenzene	ND		1.0	0.22	ug/L			07/26/17 03:21	1
N-Propylbenzene	ND		1.0	0.20	ug/L			07/26/17 03:21	1
sec-Butylbenzene	ND		1.0	0.22	ug/L			07/26/17 03:21	1
tert-Butylbenzene	ND		1.0	0.17	ug/L			07/26/17 03:21	1
Tetrachloroethene	ND		1.0	0.24	ug/L			07/26/17 03:21	1
Toluene	ND		1.0	0.16	ug/L			07/26/17 03:21	1
trans-1,2-Dichloroethene	ND		1.0	0.20	ug/L			07/26/17 03:21	1
1,1,1-Trichloroethane	ND		1.0	0.27	ug/L			07/26/17 03:21	1
Trichloroethene	ND		1.0	0.20	ug/L			07/26/17 03:21	1
1,2,4-Trimethylbenzene	ND		1.0	0.18	ug/L			07/26/17 03:21	1
1,3,5-Trimethylbenzene	ND		1.0	0.17	ug/L			07/26/17 03:21	1
Vinyl chloride	ND		1.0	0.17	ug/L			07/26/17 03:21	1
Xylenes, Total	ND		2.0	0.27	ug/L			07/26/17 03:21	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*72 - 120*		*07/26/17 03:21*	*1*
Dibromofluoromethane (Surr)	*91*		*77 - 127*		*07/26/17 03:21*	*1*
1,2-Dichloroethane-d4 (Surr)	*86*		*72 - 134*		*07/26/17 03:21*	*1*
Toluene-d8 (Surr)	*92*		*80 - 120*		*07/26/17 03:21*	*1*

Lab Sample ID: LCS 180-218093/3
Matrix: Water
Analysis Batch: 218093

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	20.0	22.3		ug/L		111	10 - 150
Benzene	10.0	10.7		ug/L		107	80 - 121
2-Butanone (MEK)	20.0	21.1		ug/L		105	41 - 150
Carbon tetrachloride	10.0	10.6		ug/L		106	59 - 145
Chlorobenzene	10.0	10.8		ug/L		108	80 - 120
Chloroform	10.0	10.6		ug/L		106	78 - 122
cis-1,2-Dichloroethene	10.0	10.2		ug/L		102	80 - 120

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 180-218093/3
Matrix: Water
Analysis Batch: 218093

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichlorobenzene	10.0	10.5		ug/L		105	80 - 120
1,3-Dichlorobenzene	10.0	10.4		ug/L		104	80 - 120
1,4-Dichlorobenzene	10.0	10.4		ug/L		104	80 - 120
1,1-Dichloroethane	10.0	10.5		ug/L		105	76 - 126
1,2-Dichloroethane	10.0	9.61		ug/L		96	72 - 126
1,1-Dichloroethene	10.0	11.0		ug/L		110	71 - 122
Ethylbenzene	10.0	11.1		ug/L		111	80 - 123
Methylene Chloride	10.0	9.52		ug/L		95	71 - 129
Methyl tert-butyl ether	10.0	9.79		ug/L		98	68 - 124
n-Butylbenzene	10.0	11.9		ug/L		119	75 - 120
N-Propylbenzene	10.0	10.4		ug/L		104	78 - 121
sec-Butylbenzene	10.0	11.6		ug/L		116	80 - 121
tert-Butylbenzene	10.0	11.3		ug/L		113	79 - 120
Tetrachloroethene	10.0	10.7		ug/L		107	80 - 122
Toluene	10.0	11.2		ug/L		112	80 - 125
trans-1,2-Dichloroethene	10.0	10.6		ug/L		106	80 - 121
1,1,1-Trichloroethane	10.0	10.2		ug/L		102	57 - 128
Trichloroethene	10.0	10.1		ug/L		101	79 - 120
1,2,4-Trimethylbenzene	10.0	11.3		ug/L		113	80 - 120
1,3,5-Trimethylbenzene	10.0	11.3		ug/L		113	80 - 122
Vinyl chloride	10.0	10.8		ug/L		108	61 - 138
Xylenes, Total	20.0	22.4		ug/L		112	80 - 123

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*107*		*72 - 120*
Dibromofluoromethane (Surr)	*102*		*77 - 127*
1,2-Dichloroethane-d4 (Surr)	*94*		*72 - 134*
Toluene-d8 (Surr)	*115*		*80 - 120*

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 180-218103/7
Matrix: Solid
Analysis Batch: 218103

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.020	0.0032	mg/Kg			07/26/17 09:00	1
Benzene	ND		0.0050	0.0020	mg/Kg			07/26/17 09:00	1
2-Butanone (MEK)	ND		0.0050	0.0029	mg/Kg			07/26/17 09:00	1
Carbon tetrachloride	ND		0.0050	0.0033	mg/Kg			07/26/17 09:00	1
Chlorobenzene	ND		0.0050	0.0016	mg/Kg			07/26/17 09:00	1
Chloroform	ND		0.0050	0.0021	mg/Kg			07/26/17 09:00	1
cis-1,2-Dichloroethene	ND		0.0050	0.0016	mg/Kg			07/26/17 09:00	1
1,2-Dichlorobenzene	ND		0.0050	0.0040	mg/Kg			07/26/17 09:00	1
1,3-Dichlorobenzene	ND		0.0050	0.0016	mg/Kg			07/26/17 09:00	1
1,4-Dichlorobenzene	ND		0.0050	0.0010	mg/Kg			07/26/17 09:00	1
1,1-Dichloroethane	ND		0.0050	0.0018	mg/Kg			07/26/17 09:00	1
1,2-Dichloroethane	ND		0.0050	0.0015	mg/Kg			07/26/17 09:00	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 180-218103/7
Matrix: Solid
Analysis Batch: 218103

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		0.0050	0.0029	mg/Kg			07/26/17 09:00	1
Ethylbenzene	ND		0.0050	0.0022	mg/Kg			07/26/17 09:00	1
Methylene Chloride	ND		0.0050	0.0024	mg/Kg			07/26/17 09:00	1
Methyl tert-butyl ether	ND		0.0050	0.0037	mg/Kg			07/26/17 09:00	1
n-Butylbenzene	ND		0.0050	0.0038	mg/Kg			07/26/17 09:00	1
N-Propylbenzene	ND		0.0050	0.0021	mg/Kg			07/26/17 09:00	1
sec-Butylbenzene	ND		0.0050	0.0024	mg/Kg			07/26/17 09:00	1
tert-Butylbenzene	ND		0.0050	0.0018	mg/Kg			07/26/17 09:00	1
Tetrachloroethene	ND		0.0050	0.0020	mg/Kg			07/26/17 09:00	1
Toluene	ND		0.0050	0.0017	mg/Kg			07/26/17 09:00	1
trans-1,2-Dichloroethene	ND		0.0050	0.0025	mg/Kg			07/26/17 09:00	1
1,1,1-Trichloroethane	ND		0.0050	0.0025	mg/Kg			07/26/17 09:00	1
Trichloroethene	ND		0.0050	0.0015	mg/Kg			07/26/17 09:00	1
1,2,4-Trimethylbenzene	ND		0.0050	0.0013	mg/Kg			07/26/17 09:00	1
1,3,5-Trimethylbenzene	ND		0.0050	0.0017	mg/Kg			07/26/17 09:00	1
Vinyl chloride	ND		0.0050	0.0037	mg/Kg			07/26/17 09:00	1
Xylenes, Total	ND		0.010	0.0043	mg/Kg			07/26/17 09:00	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*63 - 120*		*07/26/17 09:00*	*1*
Dibromofluoromethane (Surr)	*104*		*68 - 121*		*07/26/17 09:00*	*1*
1,2-Dichloroethane-d4 (Surr)	*107*		*52 - 124*		*07/26/17 09:00*	*1*
Toluene-d8 (Surr)	*104*		*72 - 127*		*07/26/17 09:00*	*1*

Lab Sample ID: LCS 180-218103/3
Matrix: Solid
Analysis Batch: 218103

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0400	0.0408		mg/Kg		102	20 - 150
Benzene	0.0400	0.0414		mg/Kg		103	77 - 120
2-Butanone (MEK)	0.0400	0.0400		mg/Kg		100	35 - 149
Carbon tetrachloride	0.0400	0.0451		mg/Kg		113	69 - 122
Chlorobenzene	0.0400	0.0411		mg/Kg		103	79 - 120
Chloroform	0.0400	0.0425		mg/Kg		106	72 - 120
cis-1,2-Dichloroethene	0.0400	0.0421		mg/Kg		105	80 - 118
1,2-Dichlorobenzene	0.0400	0.0420		mg/Kg		105	71 - 124
1,3-Dichlorobenzene	0.0400	0.0426		mg/Kg		106	75 - 118
1,4-Dichlorobenzene	0.0400	0.0423		mg/Kg		106	77 - 116
1,1-Dichloroethane	0.0400	0.0426		mg/Kg		106	66 - 124
1,2-Dichloroethane	0.0400	0.0413		mg/Kg		103	61 - 127
1,1-Dichloroethene	0.0400	0.0417		mg/Kg		104	59 - 129
Ethylbenzene	0.0400	0.0420		mg/Kg		105	78 - 125
Methylene Chloride	0.0400	0.0414		mg/Kg		104	58 - 127
Methyl tert-butyl ether	0.0400	0.0424		mg/Kg		106	48 - 132
n-Butylbenzene	0.0400	0.0455		mg/Kg		114	59 - 145
N-Propylbenzene	0.0400	0.0433		mg/Kg		108	80 - 120
sec-Butylbenzene	0.0400	0.0452		mg/Kg		113	70 - 130

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 180-218103/3
Matrix: Solid
Analysis Batch: 218103

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
tert-Butylbenzene	0.0400	0.0440		mg/Kg		110	74 - 133
Tetrachloroethene	0.0400	0.0424		mg/Kg		106	78 - 129
Toluene	0.0400	0.0419		mg/Kg		105	78 - 124
trans-1,2-Dichloroethene	0.0400	0.0427		mg/Kg		107	77 - 121
1,1,1-Trichloroethane	0.0400	0.0463		mg/Kg		116	67 - 126
Trichloroethene	0.0400	0.0414		mg/Kg		104	76 - 119
1,2,4-Trimethylbenzene	0.0400	0.0434		mg/Kg		108	80 - 121
1,3,5-Trimethylbenzene	0.0400	0.0437		mg/Kg		109	68 - 133
Vinyl chloride	0.0400	0.0421		mg/Kg		105	63 - 124
Xylenes, Total	0.0800	0.0843		mg/Kg		105	83 - 126

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*63 - 120*
Dibromofluoromethane (Surr)	*102*		*68 - 121*
1,2-Dichloroethane-d4 (Surr)	*100*		*52 - 124*
Toluene-d8 (Surr)	*100*		*72 - 127*

Lab Sample ID: MB 180-218225/7
Matrix: Solid
Analysis Batch: 218225

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.020	0.0032	mg/Kg			07/27/17 08:40	1
Benzene	ND		0.0050	0.0020	mg/Kg			07/27/17 08:40	1
2-Butanone (MEK)	ND		0.0050	0.0029	mg/Kg			07/27/17 08:40	1
Carbon tetrachloride	ND		0.0050	0.0033	mg/Kg			07/27/17 08:40	1
Chlorobenzene	ND		0.0050	0.0016	mg/Kg			07/27/17 08:40	1
Chloroform	ND		0.0050	0.0021	mg/Kg			07/27/17 08:40	1
cis-1,2-Dichloroethene	ND		0.0050	0.0016	mg/Kg			07/27/17 08:40	1
1,2-Dichlorobenzene	ND		0.0050	0.0040	mg/Kg			07/27/17 08:40	1
1,3-Dichlorobenzene	ND		0.0050	0.0016	mg/Kg			07/27/17 08:40	1
1,4-Dichlorobenzene	ND		0.0050	0.0010	mg/Kg			07/27/17 08:40	1
1,1-Dichloroethane	ND		0.0050	0.0018	mg/Kg			07/27/17 08:40	1
1,2-Dichloroethane	ND		0.0050	0.0015	mg/Kg			07/27/17 08:40	1
1,1-Dichloroethene	ND		0.0050	0.0029	mg/Kg			07/27/17 08:40	1
Ethylbenzene	ND		0.0050	0.0022	mg/Kg			07/27/17 08:40	1
Methylene Chloride	ND		0.0050	0.0024	mg/Kg			07/27/17 08:40	1
Methyl tert-butyl ether	ND		0.0050	0.0037	mg/Kg			07/27/17 08:40	1
n-Butylbenzene	ND		0.0050	0.0038	mg/Kg			07/27/17 08:40	1
N-Propylbenzene	ND		0.0050	0.0021	mg/Kg			07/27/17 08:40	1
sec-Butylbenzene	ND		0.0050	0.0024	mg/Kg			07/27/17 08:40	1
tert-Butylbenzene	ND		0.0050	0.0018	mg/Kg			07/27/17 08:40	1
Tetrachloroethene	ND		0.0050	0.0020	mg/Kg			07/27/17 08:40	1
Toluene	ND		0.0050	0.0017	mg/Kg			07/27/17 08:40	1
trans-1,2-Dichloroethene	ND		0.0050	0.0025	mg/Kg			07/27/17 08:40	1
1,1,1-Trichloroethane	ND		0.0050	0.0025	mg/Kg			07/27/17 08:40	1
Trichloroethene	ND		0.0050	0.0015	mg/Kg			07/27/17 08:40	1
1,2,4-Trimethylbenzene	ND		0.0050	0.0013	mg/Kg			07/27/17 08:40	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 180-218225/7
Matrix: Solid
Analysis Batch: 218225

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	ND		0.0050	0.0017	mg/Kg			07/27/17 08:40	1
Vinyl chloride	ND		0.0050	0.0037	mg/Kg			07/27/17 08:40	1
Xylenes, Total	ND		0.010	0.0043	mg/Kg			07/27/17 08:40	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*63 - 120*		*07/27/17 08:40*	*1*
Dibromofluoromethane (Surr)	*102*		*68 - 121*		*07/27/17 08:40*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*52 - 124*		*07/27/17 08:40*	*1*
Toluene-d8 (Surr)	*103*		*72 - 127*		*07/27/17 08:40*	*1*

Lab Sample ID: LCS 180-218225/3
Matrix: Solid
Analysis Batch: 218225

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0400	0.0431		mg/Kg		108	20 - 150
Benzene	0.0400	0.0402		mg/Kg		101	77 - 120
2-Butanone (MEK)	0.0400	0.0413		mg/Kg		103	35 - 149
Carbon tetrachloride	0.0400	0.0433		mg/Kg		108	69 - 122
Chlorobenzene	0.0400	0.0395		mg/Kg		99	79 - 120
Chloroform	0.0400	0.0421		mg/Kg		105	72 - 120
cis-1,2-Dichloroethene	0.0400	0.0414		mg/Kg		103	80 - 118
1,2-Dichlorobenzene	0.0400	0.0399		mg/Kg		100	71 - 124
1,3-Dichlorobenzene	0.0400	0.0403		mg/Kg		101	75 - 118
1,4-Dichlorobenzene	0.0400	0.0405		mg/Kg		101	77 - 116
1,1-Dichloroethane	0.0400	0.0420		mg/Kg		105	66 - 124
1,2-Dichloroethane	0.0400	0.0407		mg/Kg		102	61 - 127
1,1-Dichloroethene	0.0400	0.0425		mg/Kg		106	59 - 129
Ethylbenzene	0.0400	0.0400		mg/Kg		100	78 - 125
Methylene Chloride	0.0400	0.0417		mg/Kg		104	58 - 127
Methyl tert-butyl ether	0.0400	0.0425		mg/Kg		106	48 - 132
n-Butylbenzene	0.0400	0.0447		mg/Kg		112	59 - 145
N-Propylbenzene	0.0400	0.0419		mg/Kg		105	80 - 120
sec-Butylbenzene	0.0400	0.0436		mg/Kg		109	70 - 130
tert-Butylbenzene	0.0400	0.0424		mg/Kg		106	74 - 133
Tetrachloroethene	0.0400	0.0388		mg/Kg		97	78 - 129
Toluene	0.0400	0.0390		mg/Kg		98	78 - 124
trans-1,2-Dichloroethene	0.0400	0.0425		mg/Kg		106	77 - 121
1,1,1-Trichloroethane	0.0400	0.0441		mg/Kg		110	67 - 126
Trichloroethene	0.0400	0.0399		mg/Kg		100	76 - 119
1,2,4-Trimethylbenzene	0.0400	0.0423		mg/Kg		106	80 - 121
1,3,5-Trimethylbenzene	0.0400	0.0422		mg/Kg		106	68 - 133
Vinyl chloride	0.0400	0.0405		mg/Kg		101	63 - 124
Xylenes, Total	0.0800	0.0797		mg/Kg		100	83 - 126

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*63 - 120*

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 180-218225/3
Matrix: Solid
Analysis Batch: 218225

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Dibromofluoromethane (Surr)	*102*		*68 - 121*
1,2-Dichloroethane-d4 (Surr)	*102*		*52 - 124*
Toluene-d8 (Surr)	*99*		*72 - 127*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Lab Sample ID: MB 180-218278/1-A
Matrix: Solid
Analysis Batch: 218265

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 218278

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0067	0.0022	mg/Kg		07/27/17 11:20	07/27/17 17:17	1
Acenaphthylene	ND		0.0067	0.0023	mg/Kg		07/27/17 11:20	07/27/17 17:17	1
Anthracene	ND		0.0067	0.0025	mg/Kg		07/27/17 11:20	07/27/17 17:17	1
Benzo[a]anthracene	ND		0.0067	0.0026	mg/Kg		07/27/17 11:20	07/27/17 17:17	1
Benzo[a]pyrene	ND		0.0067	0.0028	mg/Kg		07/27/17 11:20	07/27/17 17:17	1
Benzo[b]fluoranthene	ND		0.0067	0.0029	mg/Kg		07/27/17 11:20	07/27/17 17:17	1
Benzo[g,h,i]perylene	ND		0.0067	0.0029	mg/Kg		07/27/17 11:20	07/27/17 17:17	1
Benzo[k]fluoranthene	ND		0.0067	0.0023	mg/Kg		07/27/17 11:20	07/27/17 17:17	1
Chrysene	ND		0.0067	0.0026	mg/Kg		07/27/17 11:20	07/27/17 17:17	1
Dibenz(a,h)anthracene	ND		0.0067	0.0028	mg/Kg		07/27/17 11:20	07/27/17 17:17	1
Dibenzofuran	ND		0.033	0.0027	mg/Kg		07/27/17 11:20	07/27/17 17:17	1
1,4-Dioxane	ND		0.067	0.0050	mg/Kg		07/27/17 11:20	07/27/17 17:17	1
Fluoranthene	ND		0.0067	0.0026	mg/Kg		07/27/17 11:20	07/27/17 17:17	1
Fluorene	ND		0.0067	0.0024	mg/Kg		07/27/17 11:20	07/27/17 17:17	1
Hexachlorobenzene	ND		0.0067	0.0027	mg/Kg		07/27/17 11:20	07/27/17 17:17	1
Indeno[1,2,3-cd]pyrene	ND		0.0067	0.0026	mg/Kg		07/27/17 11:20	07/27/17 17:17	1
2-Methylphenol	ND		0.033	0.0029	mg/Kg		07/27/17 11:20	07/27/17 17:17	1
Methylphenol, 3 & 4	ND		0.033	0.0030	mg/Kg		07/27/17 11:20	07/27/17 17:17	1
Naphthalene	ND		0.0067	0.0024	mg/Kg		07/27/17 11:20	07/27/17 17:17	1
Pentachlorophenol	ND		0.17	0.063	mg/Kg		07/27/17 11:20	07/27/17 17:17	1
Phenanthrene	ND		0.0067	0.0028	mg/Kg		07/27/17 11:20	07/27/17 17:17	1
Phenol	ND		0.033	0.0045	mg/Kg		07/27/17 11:20	07/27/17 17:17	1
Pyrene	ND		0.0067	0.0030	mg/Kg		07/27/17 11:20	07/27/17 17:17	1
Hexachloroethane	ND		33	2.4	ug/Kg		07/27/17 11:20	07/27/17 17:17	1
Nitrobenzene	ND		67	2.5	ug/Kg		07/27/17 11:20	07/27/17 17:17	1
Hexachlorobutadiene	ND		6.7	2.1	ug/Kg		07/27/17 11:20	07/27/17 17:17	1
2,4,5-Trichlorophenol	ND		33	3.2	ug/Kg		07/27/17 11:20	07/27/17 17:17	1
2,4,6-Trichlorophenol	ND		33	2.9	ug/Kg		07/27/17 11:20	07/27/17 17:17	1
2,4-Dinitrotoluene	ND		33	4.4	ug/Kg		07/27/17 11:20	07/27/17 17:17	1
Pyridine	ND		33	3.2	ug/Kg		07/27/17 11:20	07/27/17 17:17	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	*54*		*42 - 100*	*07/27/17 11:20*	*07/27/17 17:17*	*1*
2-Fluorophenol (Surr)	*57*		*21 - 107*	*07/27/17 11:20*	*07/27/17 17:17*	*1*
Nitrobenzene-d5 (Surr)	*50*		*35 - 109*	*07/27/17 11:20*	*07/27/17 17:17*	*1*
Phenol-d5 (Surr)	*53*		*29 - 105*	*07/27/17 11:20*	*07/27/17 17:17*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: MB 180-218278/1-A
Matrix: Solid
Analysis Batch: 218265

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 218278

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14 (Surr)	*54*		*36 - 113*	*07/27/17 11:20*	*07/27/17 17:17*	*1*
2,4,6-Tribromophenol (Surr)	*66*		*20 - 134*	*07/27/17 11:20*	*07/27/17 17:17*	*1*

Lab Sample ID: LCS 180-218278/2-A
Matrix: Solid
Analysis Batch: 218265

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 218278

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	0.667	0.341		mg/Kg		51	39 - 100
Acenaphthylene	0.667	0.351		mg/Kg		53	42 - 100
Anthracene	0.667	0.364		mg/Kg		55	43 - 100
Benzo[a]anthracene	0.667	0.369		mg/Kg		55	43 - 100
Benzo[a]pyrene	0.667	0.374		mg/Kg		56	43 - 100
Benzo[b]fluoranthene	0.667	0.350		mg/Kg		53	40 - 100
Benzo[g,h,i]perylene	0.667	0.422		mg/Kg		63	41 - 102
Benzo[k]fluoranthene	0.667	0.346		mg/Kg		52	44 - 100
Chrysene	0.667	0.390		mg/Kg		58	44 - 100
Dibenz(a,h)anthracene	0.667	0.414		mg/Kg		62	40 - 104
Dibenzofuran	0.667	0.380		mg/Kg		57	42 - 100
1,4-Dioxane	0.667	0.404		mg/Kg		61	19 - 107
Fluoranthene	0.667	0.404		mg/Kg		61	41 - 104
Fluorene	0.667	0.374		mg/Kg		56	41 - 100
Hexachlorobenzene	0.667	0.383		mg/Kg		57	43 - 100
Indeno[1,2,3-cd]pyrene	0.667	0.413		mg/Kg		62	41 - 104
2-Methylphenol	0.667	0.369		mg/Kg		55	38 - 100
Methylphenol, 3 & 4	0.667	0.373		mg/Kg		56	40 - 100
Naphthalene	0.667	0.351		mg/Kg		53	38 - 100
Pentachlorophenol	1.33	0.723		mg/Kg		54	34 - 102
Phenanthrene	0.667	0.355		mg/Kg		53	41 - 100
Phenol	0.667	0.357		mg/Kg		54	36 - 100
Pyrene	0.667	0.352		mg/Kg		53	42 - 100
Hexachloroethane	667	364		ug/Kg		55	35 - 100
Nitrobenzene	667	310		ug/Kg		47	34 - 100
Hexachlorobutadiene	667	425		ug/Kg		64	35 - 100
2,4,5-Trichlorophenol	667	387		ug/Kg		58	42 - 100
2,4,6-Trichlorophenol	667	380		ug/Kg		57	41 - 103
2,4-Dinitrotoluene	667	437		ug/Kg		66	42 - 110
Pyridine	1330	863		ug/Kg		65	25 - 119

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	*48*		*42 - 100*
2-Fluorophenol (Surr)	*58*		*21 - 107*
Nitrobenzene-d5 (Surr)	*45*		*35 - 109*
Phenol-d5 (Surr)	*54*		*29 - 105*
Terphenyl-d14 (Surr)	*54*		*36 - 113*
2,4,6-Tribromophenol (Surr)	*63*		*20 - 134*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 180-218112/1-C
Matrix: Solid
Analysis Batch: 218100

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 218112

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.017	0.0088	mg/Kg		07/26/17 06:50	07/26/17 22:20	1
PCB-1221	ND		0.017	0.0086	mg/Kg		07/26/17 06:50	07/26/17 22:20	1
PCB-1232	ND		0.017	0.0066	mg/Kg		07/26/17 06:50	07/26/17 22:20	1
PCB-1242	ND		0.017	0.013	mg/Kg		07/26/17 06:50	07/26/17 22:20	1
PCB-1248	ND		0.017	0.0080	mg/Kg		07/26/17 06:50	07/26/17 22:20	1
PCB-1254	ND		0.017	0.0073	mg/Kg		07/26/17 06:50	07/26/17 22:20	1
PCB-1260	ND		0.017	0.011	mg/Kg		07/26/17 06:50	07/26/17 22:20	1
PCB-1262	ND		0.017	0.012	mg/Kg		07/26/17 06:50	07/26/17 22:20	1
PCB-1268	ND		0.017	0.0051	mg/Kg		07/26/17 06:50	07/26/17 22:20	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*75*		*23 - 150*	*07/26/17 06:50*	*07/26/17 22:20*	*1*
DCB Decachlorobiphenyl (Surr)	*80*		*23 - 150*	*07/26/17 06:50*	*07/26/17 22:20*	*1*
Tetrachloro-m-xylene (Surr)	*77*		*27 - 138*	*07/26/17 06:50*	*07/26/17 22:20*	*1*
Tetrachloro-m-xylene (Surr)	*80*		*27 - 138*	*07/26/17 06:50*	*07/26/17 22:20*	*1*

Lab Sample ID: LCS 180-218112/2-C
Matrix: Solid
Analysis Batch: 218100

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 218112

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			1.33	1.07		mg/Kg		81	52 - 126		
PCB-1260			1.33	1.03		mg/Kg		77	50 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*77*		*23 - 150*
DCB Decachlorobiphenyl (Surr)	*82*		*23 - 150*
Tetrachloro-m-xylene (Surr)	*78*		*27 - 138*
Tetrachloro-m-xylene (Surr)	*82*		*27 - 138*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 180-218293/1-A
Matrix: Solid
Analysis Batch: 218421

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 218293

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		1.0	0.44	mg/Kg		07/27/17 12:44	07/28/17 08:35	1
Barium	ND		20	5.4	mg/Kg		07/27/17 12:44	07/28/17 08:35	1
Beryllium	ND		0.40	0.10	mg/Kg		07/27/17 12:44	07/28/17 08:35	1
Cadmium	ND		0.50	0.11	mg/Kg		07/27/17 12:44	07/28/17 08:35	1
Chromium	ND		0.50	0.13	mg/Kg		07/27/17 12:44	07/28/17 08:35	1
Copper	ND		2.5	0.77	mg/Kg		07/27/17 12:44	07/28/17 08:35	1
Lead	ND		1.0	0.33	mg/Kg		07/27/17 12:44	07/28/17 08:35	1
Manganese	ND		1.5	0.41	mg/Kg		07/27/17 12:44	07/28/17 08:35	1
Nickel	ND		4.0	0.90	mg/Kg		07/27/17 12:44	07/28/17 08:35	1
Selenium	ND		1.0	0.40	mg/Kg		07/27/17 12:44	07/28/17 08:35	1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: MB 180-218293/1-A
Matrix: Solid
Analysis Batch: 218421

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 218293

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.50	0.17	mg/Kg		07/27/17 12:44	07/28/17 08:35	1
Zinc	ND		2.0	1.0	mg/Kg		07/27/17 12:44	07/28/17 08:35	1

Lab Sample ID: LCS 180-218293/2-A
Matrix: Solid
Analysis Batch: 218421

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 218293

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	50.0	51.2		mg/Kg		102	80 - 120
Barium	200	202		mg/Kg		101	80 - 120
Beryllium	5.00	5.06		mg/Kg		101	80 - 120
Cadmium	5.00	5.12		mg/Kg		102	80 - 120
Chromium	20.0	19.2		mg/Kg		96	80 - 120
Copper	25.0	24.7		mg/Kg		99	80 - 120
Lead	50.0	48.3		mg/Kg		97	80 - 120
Manganese	50.0	49.9		mg/Kg		100	80 - 120
Nickel	50.0	50.7		mg/Kg		101	80 - 120
Selenium	50.0	49.9		mg/Kg		100	80 - 120
Silver	5.00	4.95		mg/Kg		99	80 - 120
Zinc	50.0	49.5		mg/Kg		99	80 - 120

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 180-218097/1-A
Matrix: Solid
Analysis Batch: 218142

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 218097

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.033	0.0074	mg/Kg		07/26/17 05:04	07/26/17 09:09	1

Lab Sample ID: LCS 180-218097/2-A
Matrix: Solid
Analysis Batch: 218142

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 218097

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.417	0.469		mg/Kg		112	80 - 120

Lab Sample ID: LCSD 180-218097/3-A
Matrix: Solid
Analysis Batch: 218142

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 218097

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.417	0.444		mg/Kg		107	80 - 120	5	20

Method: 2540G - SM 2540G

Lab Sample ID: 180-68509-3 DU
Matrix: Solid
Analysis Batch: 218069

Client Sample ID: WB 7-8, S1, C 072417
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	26.7		22.7		%		16	20
Percent Solids	73.3		77.3		%		5	20

Lab Sample ID: 180-68509-9 DU
Matrix: Solid
Analysis Batch: 218069

Client Sample ID: WB 7-8, S3, C 072417
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	22.3		26.7		%		18	20
Percent Solids	77.7		73.3		%		6	20

Method: 9014 - Cyanide

Lab Sample ID: MB 180-218282/4-A
Matrix: Solid
Analysis Batch: 218335

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 218282

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.50	0.15	mg/Kg		07/27/17 11:19	07/27/17 14:28	1

Lab Sample ID: HLCS 180-218282/2-A
Matrix: Solid
Analysis Batch: 218335

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 218282

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.250	0.236		mg/Kg		94	90 - 110

Lab Sample ID: LCS 180-218282/3-A
Matrix: Solid
Analysis Batch: 218335

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 218282

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	163	117		mg/Kg		72	38 - 162

Lab Sample ID: LLCS 180-218282/1-A
Matrix: Solid
Analysis Batch: 218335

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 218282

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.0500	0.0497		mg/Kg		99	90 - 110

GC/MS VOA

Analysis Batch: 218093

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68509-22	TRIP BLANK	Total/NA	Water	8260C	
MB 180-218093/6	Method Blank	Total/NA	Water	8260C	
LCS 180-218093/3	Lab Control Sample	Total/NA	Water	8260C	

Analysis Batch: 218103

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68509-1	WB 7-8, S1, A 072417	Total/NA	Solid	8260C	218110
180-68509-2	WB 7-8, S1, B 072417	Total/NA	Solid	8260C	218110
180-68509-4	WB 7-8, S2, A 072417	Total/NA	Solid	8260C	218110
MB 180-218103/7	Method Blank	Total/NA	Solid	8260C	
LCS 180-218103/3	Lab Control Sample	Total/NA	Solid	8260C	

Prep Batch: 218110

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68509-1	WB 7-8, S1, A 072417	Total/NA	Solid	5035	
180-68509-2	WB 7-8, S1, B 072417	Total/NA	Solid	5035	
180-68509-4	WB 7-8, S2, A 072417	Total/NA	Solid	5035	

Analysis Batch: 218225

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68509-5	WB 7-8, S2, B 072417	Total/NA	Solid	8260C	218236
180-68509-7	WB 7-8, S3, A 072417	Total/NA	Solid	8260C	218236
180-68509-8	WB 7-8, S3, B 072417	Total/NA	Solid	8260C	218236
180-68509-10	WB 7-8, S4, A 072417	Total/NA	Solid	8260C	218236
180-68509-11	WB 7-8, S4, B 072417	Total/NA	Solid	8260C	218236
180-68509-13	W9, S1, A 072417	Total/NA	Solid	8260C	218236
180-68509-14	W9, S1, B 072417	Total/NA	Solid	8260C	218236
180-68509-23	DUP 15	Total/NA	Solid	8260C	218236
MB 180-218225/7	Method Blank	Total/NA	Solid	8260C	
LCS 180-218225/3	Lab Control Sample	Total/NA	Solid	8260C	

Prep Batch: 218236

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68509-5	WB 7-8, S2, B 072417	Total/NA	Solid	5035	
180-68509-7	WB 7-8, S3, A 072417	Total/NA	Solid	5035	
180-68509-8	WB 7-8, S3, B 072417	Total/NA	Solid	5035	
180-68509-10	WB 7-8, S4, A 072417	Total/NA	Solid	5035	
180-68509-11	WB 7-8, S4, B 072417	Total/NA	Solid	5035	
180-68509-13	W9, S1, A 072417	Total/NA	Solid	5035	
180-68509-14	W9, S1, B 072417	Total/NA	Solid	5035	
180-68509-23	DUP 15	Total/NA	Solid	5035	

GC/MS Semi VOA

Analysis Batch: 218265

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68509-3	WB 7-8, S1, C 072417	Total/NA	Solid	8270D LL	218278
180-68509-6	WB 7-8, S2, C 072417	Total/NA	Solid	8270D LL	218278
180-68509-9	WB 7-8, S3, C 072417	Total/NA	Solid	8270D LL	218278
180-68509-12	WB 7-8, S4, C 072417	Total/NA	Solid	8270D LL	218278

GC/MS Semi VOA (Continued)

Analysis Batch: 218265 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68509-15	W9, S1, C 072417	Total/NA	Solid	8270D LL	218278
180-68509-24	DUP 14	Total/NA	Solid	8270D LL	218278
MB 180-218278/1-A	Method Blank	Total/NA	Solid	8270D LL	218278
LCS 180-218278/2-A	Lab Control Sample	Total/NA	Solid	8270D LL	218278

Prep Batch: 218278

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68509-3	WB 7-8, S1, C 072417	Total/NA	Solid	3541	
180-68509-6	WB 7-8, S2, C 072417	Total/NA	Solid	3541	
180-68509-9	WB 7-8, S3, C 072417	Total/NA	Solid	3541	
180-68509-12	WB 7-8, S4, C 072417	Total/NA	Solid	3541	
180-68509-15	W9, S1, C 072417	Total/NA	Solid	3541	
180-68509-24	DUP 14	Total/NA	Solid	3541	
MB 180-218278/1-A	Method Blank	Total/NA	Solid	3541	
LCS 180-218278/2-A	Lab Control Sample	Total/NA	Solid	3541	

GC Semi VOA

Analysis Batch: 218100

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68509-3	WB 7-8, S1, C 072417	Total/NA	Solid	8082A	218178
180-68509-6	WB 7-8, S2, C 072417	Total/NA	Solid	8082A	218178
180-68509-9	WB 7-8, S3, C 072417	Total/NA	Solid	8082A	218178
180-68509-12	WB 7-8, S4, C 072417	Total/NA	Solid	8082A	218178
180-68509-15	W9, S1, C 072417	Total/NA	Solid	8082A	218178
180-68509-24	DUP 14	Total/NA	Solid	8082A	218178
MB 180-218112/1-C	Method Blank	Total/NA	Solid	8082A	218178
LCS 180-218112/2-C	Lab Control Sample	Total/NA	Solid	8082A	218178

Prep Batch: 218112

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68509-3	WB 7-8, S1, C 072417	Total/NA	Solid	3541	
180-68509-6	WB 7-8, S2, C 072417	Total/NA	Solid	3541	
180-68509-9	WB 7-8, S3, C 072417	Total/NA	Solid	3541	
180-68509-12	WB 7-8, S4, C 072417	Total/NA	Solid	3541	
180-68509-15	W9, S1, C 072417	Total/NA	Solid	3541	
180-68509-24	DUP 14	Total/NA	Solid	3541	
MB 180-218112/1-C	Method Blank	Total/NA	Solid	3541	
LCS 180-218112/2-C	Lab Control Sample	Total/NA	Solid	3541	

Cleanup Batch: 218177

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68509-3	WB 7-8, S1, C 072417	Total/NA	Solid	3665A	218112
180-68509-6	WB 7-8, S2, C 072417	Total/NA	Solid	3665A	218112
180-68509-9	WB 7-8, S3, C 072417	Total/NA	Solid	3665A	218112
180-68509-12	WB 7-8, S4, C 072417	Total/NA	Solid	3665A	218112
180-68509-15	W9, S1, C 072417	Total/NA	Solid	3665A	218112
180-68509-24	DUP 14	Total/NA	Solid	3665A	218112
MB 180-218112/1-C	Method Blank	Total/NA	Solid	3665A	218112
LCS 180-218112/2-C	Lab Control Sample	Total/NA	Solid	3665A	218112

GC Semi VOA (Continued)

Cleanup Batch: 218178

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68509-3	WB 7-8, S1, C 072417	Total/NA	Solid	3660B	218177
180-68509-6	WB 7-8, S2, C 072417	Total/NA	Solid	3660B	218177
180-68509-9	WB 7-8, S3, C 072417	Total/NA	Solid	3660B	218177
180-68509-12	WB 7-8, S4, C 072417	Total/NA	Solid	3660B	218177
180-68509-15	W9, S1, C 072417	Total/NA	Solid	3660B	218177
180-68509-24	DUP 14	Total/NA	Solid	3660B	218177
MB 180-218112/1-C	Method Blank	Total/NA	Solid	3660B	218177
LCS 180-218112/2-C	Lab Control Sample	Total/NA	Solid	3660B	218177

Metals

Prep Batch: 218097

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68509-3	WB 7-8, S1, C 072417	Total/NA	Solid	7471B	
180-68509-6	WB 7-8, S2, C 072417	Total/NA	Solid	7471B	
180-68509-9	WB 7-8, S3, C 072417	Total/NA	Solid	7471B	
180-68509-12	WB 7-8, S4, C 072417	Total/NA	Solid	7471B	
180-68509-15	W9, S1, C 072417	Total/NA	Solid	7471B	
180-68509-24	DUP 14	Total/NA	Solid	7471B	
MB 180-218097/1-A	Method Blank	Total/NA	Solid	7471B	
LCS 180-218097/2-A	Lab Control Sample	Total/NA	Solid	7471B	
LCSD 180-218097/3-A	Lab Control Sample Dup	Total/NA	Solid	7471B	

Analysis Batch: 218142

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68509-3	WB 7-8, S1, C 072417	Total/NA	Solid	7471B	218097
180-68509-6	WB 7-8, S2, C 072417	Total/NA	Solid	7471B	218097
180-68509-9	WB 7-8, S3, C 072417	Total/NA	Solid	7471B	218097
180-68509-12	WB 7-8, S4, C 072417	Total/NA	Solid	7471B	218097
180-68509-15	W9, S1, C 072417	Total/NA	Solid	7471B	218097
180-68509-24	DUP 14	Total/NA	Solid	7471B	218097
MB 180-218097/1-A	Method Blank	Total/NA	Solid	7471B	218097
LCS 180-218097/2-A	Lab Control Sample	Total/NA	Solid	7471B	218097
LCSD 180-218097/3-A	Lab Control Sample Dup	Total/NA	Solid	7471B	218097

Prep Batch: 218293

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68509-3	WB 7-8, S1, C 072417	Total/NA	Solid	3050B	
180-68509-6	WB 7-8, S2, C 072417	Total/NA	Solid	3050B	
180-68509-9	WB 7-8, S3, C 072417	Total/NA	Solid	3050B	
180-68509-12	WB 7-8, S4, C 072417	Total/NA	Solid	3050B	
180-68509-15	W9, S1, C 072417	Total/NA	Solid	3050B	
180-68509-24	DUP 14	Total/NA	Solid	3050B	
MB 180-218293/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 180-218293/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Analysis Batch: 218421

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68509-3	WB 7-8, S1, C 072417	Total/NA	Solid	6010C	218293
180-68509-6	WB 7-8, S2, C 072417	Total/NA	Solid	6010C	218293

Metals (Continued)

Analysis Batch: 218421 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68509-9	WB 7-8, S3, C 072417	Total/NA	Solid	6010C	218293
180-68509-12	WB 7-8, S4, C 072417	Total/NA	Solid	6010C	218293
180-68509-15	W9, S1, C 072417	Total/NA	Solid	6010C	218293
180-68509-24	DUP 14	Total/NA	Solid	6010C	218293
MB 180-218293/1-A	Method Blank	Total/NA	Solid	6010C	218293
LCS 180-218293/2-A	Lab Control Sample	Total/NA	Solid	6010C	218293

General Chemistry

Analysis Batch: 218069

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68509-1	WB 7-8, S1, A 072417	Total/NA	Solid	2540G	
180-68509-2	WB 7-8, S1, B 072417	Total/NA	Solid	2540G	
180-68509-3	WB 7-8, S1, C 072417	Total/NA	Solid	2540G	
180-68509-4	WB 7-8, S2, A 072417	Total/NA	Solid	2540G	
180-68509-5	WB 7-8, S2, B 072417	Total/NA	Solid	2540G	
180-68509-6	WB 7-8, S2, C 072417	Total/NA	Solid	2540G	
180-68509-7	WB 7-8, S3, A 072417	Total/NA	Solid	2540G	
180-68509-8	WB 7-8, S3, B 072417	Total/NA	Solid	2540G	
180-68509-9	WB 7-8, S3, C 072417	Total/NA	Solid	2540G	
180-68509-10	WB 7-8, S4, A 072417	Total/NA	Solid	2540G	
180-68509-11	WB 7-8, S4, B 072417	Total/NA	Solid	2540G	
180-68509-12	WB 7-8, S4, C 072417	Total/NA	Solid	2540G	
180-68509-13	W9, S1, A 072417	Total/NA	Solid	2540G	
180-68509-14	W9, S1, B 072417	Total/NA	Solid	2540G	
180-68509-15	W9, S1, C 072417	Total/NA	Solid	2540G	
180-68509-23	DUP 15	Total/NA	Solid	2540G	
180-68509-24	DUP 14	Total/NA	Solid	2540G	
180-68509-3 DU	WB 7-8, S1, C 072417	Total/NA	Solid	2540G	
180-68509-9 DU	WB 7-8, S3, C 072417	Total/NA	Solid	2540G	

Prep Batch: 218282

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68509-3	WB 7-8, S1, C 072417	Total/NA	Solid	9010C	
180-68509-6	WB 7-8, S2, C 072417	Total/NA	Solid	9010C	
180-68509-9	WB 7-8, S3, C 072417	Total/NA	Solid	9010C	
180-68509-12	WB 7-8, S4, C 072417	Total/NA	Solid	9010C	
180-68509-15	W9, S1, C 072417	Total/NA	Solid	9010C	
180-68509-24	DUP 14	Total/NA	Solid	9010C	
MB 180-218282/4-A	Method Blank	Total/NA	Solid	9010C	
HLCS 180-218282/2-A	Lab Control Sample	Total/NA	Solid	9010C	
LCS 180-218282/3-A	Lab Control Sample	Total/NA	Solid	9010C	
LLCS 180-218282/1-A	Lab Control Sample	Total/NA	Solid	9010C	

Analysis Batch: 218335

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68509-3	WB 7-8, S1, C 072417	Total/NA	Solid	9014	218282
180-68509-6	WB 7-8, S2, C 072417	Total/NA	Solid	9014	218282
180-68509-9	WB 7-8, S3, C 072417	Total/NA	Solid	9014	218282
180-68509-12	WB 7-8, S4, C 072417	Total/NA	Solid	9014	218282

General Chemistry (Continued)

Analysis Batch: 218335 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68509-15	W9, S1, C 072417	Total/NA	Solid	9014	218282
180-68509-24	DUP 14	Total/NA	Solid	9014	218282
MB 180-218282/4-A	Method Blank	Total/NA	Solid	9014	218282
HLCS 180-218282/2-A	Lab Control Sample	Total/NA	Solid	9014	218282
LCS 180-218282/3-A	Lab Control Sample	Total/NA	Solid	9014	218282
LLCS 180-218282/1-A	Lab Control Sample	Total/NA	Solid	9014	218282

TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
phone 412.963.7058 fax 412.963.2468

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☑ Other:

Client Contact	Project Manager: Aron Krasnopoler	Site Contact: Ashwin Ranna/Ellen Buelow	Date: 7-24-2017	COC No:
Geosyntec Consultants	Tel/Fax: 401-381-4333	Lab Contact: Dave Dunlap	Carrier: FedEx	1 of 3 COCs
10211 Wincopin Circle, 4th Floor	Analysis Turnaround Time			Sampler: Ellen Buelow
Columbia, MD 21044	☐ CALENDAR DAYS ☑ WORKING DAYS			For Lab Use Only:
410-381-4333 Phone	TAT if different from Below _____			Walk-in Client:
410-381-4499 FAX	☐ 2 weeks			Lab Sampling:
Project Name: Former Sperry Remington Site - North	☐ 1 week			Job / SDG No.:
Site: Elmira	☐ 2 days			
P O # MN0832B	☑ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	8260C - VOA- Select List	6010C, 7471B, 9014	8082A, 8270D_LL	8260C_LL-VOA-Select List	8260C Select List	Sample Specific Notes:
WB78,S1,A 72417	7-24-17	10:05	G	S	4	N	N	X					Rush
WB7-8,S1,B 72417	7-24-17	10:10	G	S	4	N	N	X					
WB7-8,S1,C 72417	7-24-17	10:20	C	S	2	N	N		X	X			
WB7-8,S2,A 72417	7-24-17	10:45	G	S	4	N	N	X					
WB7-8,S2,B 072417	7-24-17	10:50	G	S	4	N	N	X					
WB7-8,S2,C 72417	7-24-17	10:55	C	S	2	N	N		X	X			
WB7-8,S3,A 72417	72417	11:10	G	S	4	N	N	X					
WB7-8,S3,B 72417	72417	11:20	G	S	4	N	N	X					
WB7-8 S3, C 72417	72417	11:30	C	S	2	N	N		X	X			
WB7-8-S4,A 72417	72417	12:05	G	S	4	N	N	X					
WB7-8-S4,B 72417	72417	12:10	G	S	4	N	N	X					
WB7-8 S4,C 72417	72417	12:15	C	S	2	N	N		X	X			
								1					

180-68509 Chain of Custody

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd: _____ Corr'd: _____ | Therm ID No.: _____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Ashwin Ranna	Geosyntec	7-24-2017 1615	[signature]	TMHT	7/25/17 0915
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Form No. CA-C-WI-002, Rev. 4.3, dated 12/05/20*

TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
phone 412.963.7058 fax 412.963.2468

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☑ Other:

Client Contact	Project Manager: Aron Krasnopoler	Site Contact: Ashwin Ranna/Ellen Buelow	Date:	COC No:
Geosyntec Consultants	Tel/Fax: 401-381-4333	Lab Contact: Dave Dunlap	Carrier: FedEx	2 of 3 COCs
10211 Wincopin Circle, 4th Floor	Analysis Turnaround Time			Sampler:
Columbia, MD 21044	☐ CALENDAR DAYS ☑ WORKING DAYS			For Lab Use Only:
410-381-4333 Phone	TAT if different from Below _____			Walk-in Client:
410-381-4499 FAX	☐ 2 weeks			Lab Sampling:
Project Name: Former Sperry Remington Site - North	☐ 1 week			Job / SDG No.:
Site: Elmira	☐ 2 days			
P O # MN0832B	☑ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	PCBs - 8082A	VOCs - 8260C select list	TCLP - Lead	6010C, 7471B, 2014	8082A 8270D SL	TCLP RCRA METALS	RCRA TCLP SemiVOA	TCLP VOC	8260C WorkType No.	Sample Specific Notes:
W9,S1,A 072417 (FB)	~~7.24.17~~ 13:10	13:10	G	S	4	N	N		X								
W9,S1,B 072417 (EB)	~~7.24.17~~ 13:15	13:15	G	S	4	N	N		X								
W9,S1,C 072417 (EB)	~~7.24.17~~ 13:20	13:20	C	S	2	N	N				X	X					
W9,S2,C 072417	~~07.24.17~~	14:15	C	S	3	N	N	X					X	X			
W9,S3,C 072417	07.24.17	14:35	C	S	3	N	N	X					X	X			
W9,S4,C 072417	07.24.17	14:40	C	S	3	N	N	X					X	X			
W9,S2,A 072417	072417	15:45	G	S	2	N	N								X		
W9,S3,A 072417	072417	15:50	G	S	2	N	N								X		
W9,S4,A 072417	072417	15:55	G	S	2	N	N								X		
(Trip blank)	—	—	—	W	2	N	N									X	
~~DUP-5~~ EKB	~~072417~~	—	~~G~~	~~S~~	~~4~~												
~~DUP-14~~ EKB	~~07.24.17~~	—	~~G~~	~~S~~	~~2~~												
								1									

PCB's to be analyzed as discussed with Ellen Buelow 7/28/17

Rush

Preservation Used: 1= Ice, 2= HCl; 3= H_2SO_4; 4=HNO_3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd: _____ Corr'd: _____ Therm ID No.: _____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Ashwin Ranna	Geosyntec	7.24.17 1545		TA Pitt	7/25/17 0915
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Form No. CA-C-WI-002, Rev. 4.3, dated 12/05/2013

TestAmerica Pittsburgh
301 Alpha Drive RIDC Park
Pittsburgh, PA 15238
Phone (412) 963-7058 Fax (412) 963-2468

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Ellen Buelow	Lab PM: Dunlap, David A	Carrier Tracking No(s):	COC No: 180-38494-8381.1
Client Contact: Ashwin Ranna; Aron Krasnopoler	Phone: 412-552-4758	E-Mail: david.dunlap@testamericainc.com		Page: Page 3 of 3
Company: Geosyntec Consultants, Inc.				Job #:
Address: Penn Center West One, Suite 402 1 Penn Center West Drive	Due Date Requested:			
City: Pittsburgh	TAT Requested (days):			
State, Zip: PA, 15276				
Phone:	PO #: MN0832B			
Email: aranna@geosyntec.com; Akrasnopoler@geosyntec.com	WO #:			
Project Name: Former Sperry Remington Site - North IRM	Project #: 18013464			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - VOA-Select List	6010C, 7471B, 9014 - Select ICP Metals, Mercury, Cyanide	8082A, 8270D, PCBs, Select BNA	8260C - VOA-Select List (Trip Blanks only)	TCLP Semivolatiles, TCLP metals, PCBs										Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	A												
DUP 15	07-24-17	—	FG	Solid	N	N	X															Results
DUP 14	07-2417	—	FC	Solid	N	N		X	X													
DUP 16	07 2417	—	FG	Solid	N	N	X				XX											
				Solid																		
				Solid																		
				Solid																		
				Solid																		
				Solid																		
				Solid																		
				Solid																		
				Solid																		
				Solid																		

Changes as discussed with Ellen Buelow 7/25/17

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Ashwin Ranna	7-24-2017 / 1845	Geosyntec		7/25/17 0915	TA Pgh
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

7/28/2017

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 180-68509-1

Login Number: 68509
List Number: 1
Creator: Neri, Tom

List Source: TestAmerica Pittsburgh

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

TestAmerica Job ID: 180-68518-1
Client Project/Site: Former Sperry Remington Site - North IRM

For:
Geosyntec Consultants, Inc.
10211 Wincopin Circle
4'th Floor
Columbia, Maryland 21044

Attn: Mr. Aron Krasnopoler

Authorized for release by:
7/28/2017 7:47:50 AM

David Dunlap, Senior Project Manager
(412)963-2432
david.dunlap@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Job ID: 180-68518-1

Laboratory: TestAmerica Pittsburgh

Narrative

Job Narrative
180-68518-1

Receipt
The samples were received on 7/25/2017 9:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 2.6º C, 4.1º C and 4.4º C.

GC Semi VOA
Method(s) 8082A: The following sample were diluted to bring the concentration of target analytes within the calibration range: SE BOTTOM WALL 1 (180-68518-1) and SE BOTTOM WALL 2 (180-68518-2). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Definitions/Glossary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68518-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc. TestAmerica Job ID: 180-68518-1
Project/Site: Former Sperry Remington Site - North IRM

Laboratory: TestAmerica Pittsburgh

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	11182	03-31-18

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
2540G		Solid	Percent Moisture
2540G		Solid	Percent Solids

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68518-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-68518-1	SE BOTTOM WALL 1	Solid	07/23/17 09:30	07/25/17 09:15
180-68518-2	SE BOTTOM WALL 2	Solid	07/23/17 09:45	07/25/17 09:15
180-68518-3	SE BOTTOM WALL 3	Solid	07/23/17 09:55	07/25/17 09:15
180-68518-4	SE SIDEWALL 1	Solid	07/24/17 16:20	07/25/17 09:15

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68518-1

Method	Method Description	Protocol	Laboratory
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL PIT
2540G	SM 2540G	SM22	TAL PIT

Protocol References:

SM22 = SM22

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68518-1

Client Sample ID: SE BOTTOM WALL 1

Lab Sample ID: 180-68518-1
Date Collected: 07/23/17 09:30
Matrix: Solid
Date Received: 07/25/17 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218081	07/25/17 16:20	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SE BOTTOM WALL 1

Lab Sample ID: 180-68518-1
Date Collected: 07/23/17 09:30
Matrix: Solid
Date Received: 07/25/17 09:15
Percent Solids: 93.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.2 g	20.0 mL	218112	07/26/17 08:33	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	218177	07/26/17 13:57	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	218178	07/26/17 13:58	JMO	TAL PIT
Total/NA	Analysis	8082A		10			218229	07/27/17 08:31	JMO	TAL PIT
	Instrument ID: CHGC16									

Client Sample ID: SE BOTTOM WALL 2

Lab Sample ID: 180-68518-2
Date Collected: 07/23/17 09:45
Matrix: Solid
Date Received: 07/25/17 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218081	07/25/17 16:20	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SE BOTTOM WALL 2

Lab Sample ID: 180-68518-2
Date Collected: 07/23/17 09:45
Matrix: Solid
Date Received: 07/25/17 09:15
Percent Solids: 81.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	218112	07/26/17 08:33	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	218177	07/26/17 13:57	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	218178	07/26/17 13:58	JMO	TAL PIT
Total/NA	Analysis	8082A		10			218229	07/27/17 08:52	JMO	TAL PIT
	Instrument ID: CHGC16									

Client Sample ID: SE BOTTOM WALL 3

Lab Sample ID: 180-68518-3
Date Collected: 07/23/17 09:55
Matrix: Solid
Date Received: 07/25/17 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218081	07/25/17 16:20	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68518-1

Client Sample ID: SE BOTTOM WALL 3

Lab Sample ID: 180-68518-3
Date Collected: 07/23/17 09:55
Matrix: Solid
Date Received: 07/25/17 09:15
Percent Solids: 83.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.4 g	20.0 mL	218112	07/26/17 08:33	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	218177	07/26/17 13:57	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	218178	07/26/17 13:58	JMO	TAL PIT
Total/NA	Analysis	8082A		1			218100	07/26/17 23:23	JMO	TAL PIT
	Instrument ID: CHGC16									

Client Sample ID: SE SIDEWALL 1

Lab Sample ID: 180-68518-4
Date Collected: 07/24/17 16:20
Matrix: Solid
Date Received: 07/25/17 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218081	07/25/17 16:20	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: SE SIDEWALL 1

Lab Sample ID: 180-68518-4
Date Collected: 07/24/17 16:20
Matrix: Solid
Date Received: 07/25/17 09:15
Percent Solids: 89.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	20.0 mL	218112	07/26/17 06:50	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	218177	07/26/17 13:57	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	218178	07/26/17 13:58	JMO	TAL PIT
Total/NA	Analysis	8082A		1			218100	07/26/17 23:44	JMO	TAL PIT
	Instrument ID: CHGC16									

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Analyst References:

Lab: TAL PIT

Batch Type: Cleanup

JMO = John Oravec

Batch Type: Prep

BAP = Brian Pino

Batch Type: Analysis

JMO = John Oravec

JTL = Justin Landry

Client Sample ID: SE BOTTOM WALL 1

Lab Sample ID: 180-68518-1
Date Collected: 07/23/17 09:30
Matrix: Solid
Date Received: 07/25/17 09:15
Percent Solids: 93.9

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.18	0.093	mg/Kg	☼	07/26/17 08:33	07/27/17 08:31	10
PCB-1221	ND		0.18	0.091	mg/Kg	☼	07/26/17 08:33	07/27/17 08:31	10
PCB-1232	ND		0.18	0.069	mg/Kg	☼	07/26/17 08:33	07/27/17 08:31	10
PCB-1242	ND		0.18	0.14	mg/Kg	☼	07/26/17 08:33	07/27/17 08:31	10
PCB-1248	**19**		0.18	0.084	mg/Kg	☼	07/26/17 08:33	07/27/17 08:31	10
PCB-1254	**7.6**		0.18	0.077	mg/Kg	☼	07/26/17 08:33	07/27/17 08:31	10
PCB-1260	**0.82**		0.18	0.12	mg/Kg	☼	07/26/17 08:33	07/27/17 08:31	10
PCB-1262	ND		0.18	0.13	mg/Kg	☼	07/26/17 08:33	07/27/17 08:31	10
PCB-1268	ND		0.18	0.053	mg/Kg	☼	07/26/17 08:33	07/27/17 08:31	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*101*		*23 - 150*	*07/26/17 08:33*	*07/27/17 08:31*	*10*
DCB Decachlorobiphenyl (Surr)	*99*		*23 - 150*	*07/26/17 08:33*	*07/27/17 08:31*	*10*
Tetrachloro-m-xylene (Surr)	*88*		*27 - 138*	*07/26/17 08:33*	*07/27/17 08:31*	*10*
Tetrachloro-m-xylene (Surr)	*92*		*27 - 138*	*07/26/17 08:33*	*07/27/17 08:31*	*10*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**6.1**		0.1	0.1	%			07/25/17 16:20	1
Percent Solids	**93.9**		0.1	0.1	%			07/25/17 16:20	1

Client Sample ID: SE BOTTOM WALL 2

Lab Sample ID: 180-68518-2
Date Collected: 07/23/17 09:45
Matrix: Solid
Date Received: 07/25/17 09:15
Percent Solids: 81.9

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.20	0.11	mg/Kg	☼	07/26/17 08:33	07/27/17 08:52	10
PCB-1221	ND		0.20	0.11	mg/Kg	☼	07/26/17 08:33	07/27/17 08:52	10
PCB-1232	ND		0.20	0.081	mg/Kg	☼	07/26/17 08:33	07/27/17 08:52	10
PCB-1242	ND		0.20	0.16	mg/Kg	☼	07/26/17 08:33	07/27/17 08:52	10
PCB-1248	**43**		0.20	0.097	mg/Kg	☼	07/26/17 08:33	07/27/17 08:52	10
PCB-1254	**12**		0.20	0.089	mg/Kg	☼	07/26/17 08:33	07/27/17 08:52	10
PCB-1260	**1.5**		0.20	0.14	mg/Kg	☼	07/26/17 08:33	07/27/17 08:52	10
PCB-1262	ND		0.20	0.15	mg/Kg	☼	07/26/17 08:33	07/27/17 08:52	10
PCB-1268	ND		0.20	0.062	mg/Kg	☼	07/26/17 08:33	07/27/17 08:52	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*83*		*23 - 150*	*07/26/17 08:33*	*07/27/17 08:52*	*10*
DCB Decachlorobiphenyl (Surr)	*86*		*23 - 150*	*07/26/17 08:33*	*07/27/17 08:52*	*10*
Tetrachloro-m-xylene (Surr)	*71*		*27 - 138*	*07/26/17 08:33*	*07/27/17 08:52*	*10*
Tetrachloro-m-xylene (Surr)	*78*		*27 - 138*	*07/26/17 08:33*	*07/27/17 08:52*	*10*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**18.1**		0.1	0.1	%			07/25/17 16:20	1
Percent Solids	**81.9**		0.1	0.1	%			07/25/17 16:20	1

Client Sample ID: SE BOTTOM WALL 3 — Lab Sample ID: 180-68518-3

Date Collected: 07/23/17 09:55 — Matrix: Solid
Date Received: 07/25/17 09:15 — Percent Solids: 83.1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.020	0.010	mg/Kg	☼	07/26/17 08:33	07/26/17 23:23	1
PCB-1221	ND		0.020	0.010	mg/Kg	☼	07/26/17 08:33	07/26/17 23:23	1
PCB-1232	ND		0.020	0.0077	mg/Kg	☼	07/26/17 08:33	07/26/17 23:23	1
PCB-1242	ND		0.020	0.016	mg/Kg	☼	07/26/17 08:33	07/26/17 23:23	1
PCB-1248	**3.7**		0.020	0.0093	mg/Kg	☼	07/26/17 08:33	07/26/17 23:23	1
PCB-1254	**1.4**		0.020	0.0086	mg/Kg	☼	07/26/17 08:33	07/26/17 23:23	1
PCB-1260	**0.091**		0.020	0.013	mg/Kg	☼	07/26/17 08:33	07/26/17 23:23	1
PCB-1262	ND		0.020	0.014	mg/Kg	☼	07/26/17 08:33	07/26/17 23:23	1
PCB-1268	ND		0.020	0.0059	mg/Kg	☼	07/26/17 08:33	07/26/17 23:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*56*		*23 - 150*	*07/26/17 08:33*	*07/26/17 23:23*	*1*
DCB Decachlorobiphenyl (Surr)	*59*		*23 - 150*	*07/26/17 08:33*	*07/26/17 23:23*	*1*
Tetrachloro-m-xylene (Surr)	*60*		*27 - 138*	*07/26/17 08:33*	*07/26/17 23:23*	*1*
Tetrachloro-m-xylene (Surr)	*61*		*27 - 138*	*07/26/17 08:33*	*07/26/17 23:23*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**16.9**		0.1	0.1	%			07/25/17 16:20	1
Percent Solids	**83.1**		0.1	0.1	%			07/25/17 16:20	1

Client Sample ID: SE SIDEWALL 1 — Lab Sample ID: 180-68518-4

Date Collected: 07/24/17 16:20 — Matrix: Solid
Date Received: 07/25/17 09:15 — Percent Solids: 89.8

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.019	0.0098	mg/Kg	☼	07/26/17 06:50	07/26/17 23:44	1
PCB-1221	ND		0.019	0.0096	mg/Kg	☼	07/26/17 06:50	07/26/17 23:44	1
PCB-1232	ND		0.019	0.0073	mg/Kg	☼	07/26/17 06:50	07/26/17 23:44	1
PCB-1242	ND		0.019	0.015	mg/Kg	☼	07/26/17 06:50	07/26/17 23:44	1
PCB-1248	ND		0.019	0.0089	mg/Kg	☼	07/26/17 06:50	07/26/17 23:44	1
PCB-1254	**0.0091**	**J**	0.019	0.0081	mg/Kg	☼	07/26/17 06:50	07/26/17 23:44	1
PCB-1260	ND		0.019	0.012	mg/Kg	☼	07/26/17 06:50	07/26/17 23:44	1
PCB-1262	ND		0.019	0.013	mg/Kg	☼	07/26/17 06:50	07/26/17 23:44	1
PCB-1268	ND		0.019	0.0057	mg/Kg	☼	07/26/17 06:50	07/26/17 23:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*67*		*23 - 150*	*07/26/17 06:50*	*07/26/17 23:44*	*1*
DCB Decachlorobiphenyl (Surr)	*66*		*23 - 150*	*07/26/17 06:50*	*07/26/17 23:44*	*1*
Tetrachloro-m-xylene (Surr)	*69*		*27 - 138*	*07/26/17 06:50*	*07/26/17 23:44*	*1*
Tetrachloro-m-xylene (Surr)	*72*		*27 - 138*	*07/26/17 06:50*	*07/26/17 23:44*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**10.2**		0.1	0.1	%			07/25/17 16:20	1
Percent Solids	**89.8**		0.1	0.1	%			07/25/17 16:20	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 180-218112/1-C
Matrix: Solid
Analysis Batch: 218100

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 218112

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.017	0.0088	mg/Kg		07/26/17 06:50	07/26/17 22:20	1
PCB-1221	ND		0.017	0.0086	mg/Kg		07/26/17 06:50	07/26/17 22:20	1
PCB-1232	ND		0.017	0.0066	mg/Kg		07/26/17 06:50	07/26/17 22:20	1
PCB-1242	ND		0.017	0.013	mg/Kg		07/26/17 06:50	07/26/17 22:20	1
PCB-1248	ND		0.017	0.0080	mg/Kg		07/26/17 06:50	07/26/17 22:20	1
PCB-1254	ND		0.017	0.0073	mg/Kg		07/26/17 06:50	07/26/17 22:20	1
PCB-1260	ND		0.017	0.011	mg/Kg		07/26/17 06:50	07/26/17 22:20	1
PCB-1262	ND		0.017	0.012	mg/Kg		07/26/17 06:50	07/26/17 22:20	1
PCB-1268	ND		0.017	0.0051	mg/Kg		07/26/17 06:50	07/26/17 22:20	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*75*		*23 - 150*	*07/26/17 06:50*	*07/26/17 22:20*	*1*
DCB Decachlorobiphenyl (Surr)	*80*		*23 - 150*	*07/26/17 06:50*	*07/26/17 22:20*	*1*
Tetrachloro-m-xylene (Surr)	*77*		*27 - 138*	*07/26/17 06:50*	*07/26/17 22:20*	*1*
Tetrachloro-m-xylene (Surr)	*80*		*27 - 138*	*07/26/17 06:50*	*07/26/17 22:20*	*1*

Lab Sample ID: LCS 180-218112/2-C
Matrix: Solid
Analysis Batch: 218100

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 218112

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			1.33	1.07		mg/Kg		81	52 - 126		
PCB-1260			1.33	1.03		mg/Kg		77	50 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*77*		*23 - 150*
DCB Decachlorobiphenyl (Surr)	*82*		*23 - 150*
Tetrachloro-m-xylene (Surr)	*78*		*27 - 138*
Tetrachloro-m-xylene (Surr)	*82*		*27 - 138*

Lab Sample ID: 180-68518-4 MS
Matrix: Solid
Analysis Batch: 218100

Client Sample ID: SE SIDEWALL 1
Prep Type: Total/NA
Prep Batch: 218112

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016	ND		1.46	0.863		mg/Kg	☼	59	52 - 126		
PCB-1260	ND		1.46	0.784		mg/Kg	☼	54	50 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*56*		*23 - 150*
DCB Decachlorobiphenyl (Surr)	*56*		*23 - 150*
Tetrachloro-m-xylene (Surr)	*66*		*27 - 138*
Tetrachloro-m-xylene (Surr)	*67*		*27 - 138*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 180-68518-4 MSD
Matrix: Solid
Analysis Batch: 218100

Client Sample ID: SE SIDEWALL 1
Prep Type: Total/NA
Prep Batch: 218112

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	ND		1.48	1.03		mg/Kg	☼	70	52 - 126	17	20
PCB-1260	ND		1.48	0.911		mg/Kg	☼	62	50 - 130	15	21

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*61*		*23 - 150*
DCB Decachlorobiphenyl (Surr)	*62*		*23 - 150*
Tetrachloro-m-xylene (Surr)	*70*		*27 - 138*
Tetrachloro-m-xylene (Surr)	*72*		*27 - 138*

QC Association Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68518-1

GC Semi VOA

Analysis Batch: 218100

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68518-3	SE BOTTOM WALL 3	Total/NA	Solid	8082A	218178
180-68518-4	SE SIDEWALL 1	Total/NA	Solid	8082A	218178
MB 180-218112/1-C	Method Blank	Total/NA	Solid	8082A	218178
LCS 180-218112/2-C	Lab Control Sample	Total/NA	Solid	8082A	218178
180-68518-4 MS	SE SIDEWALL 1	Total/NA	Solid	8082A	218178
180-68518-4 MSD	SE SIDEWALL 1	Total/NA	Solid	8082A	218178

Prep Batch: 218112

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68518-1	SE BOTTOM WALL 1	Total/NA	Solid	3541	
180-68518-2	SE BOTTOM WALL 2	Total/NA	Solid	3541	
180-68518-3	SE BOTTOM WALL 3	Total/NA	Solid	3541	
180-68518-4	SE SIDEWALL 1	Total/NA	Solid	3541	
MB 180-218112/1-C	Method Blank	Total/NA	Solid	3541	
LCS 180-218112/2-C	Lab Control Sample	Total/NA	Solid	3541	
180-68518-4 MS	SE SIDEWALL 1	Total/NA	Solid	3541	
180-68518-4 MSD	SE SIDEWALL 1	Total/NA	Solid	3541	

Cleanup Batch: 218177

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68518-1	SE BOTTOM WALL 1	Total/NA	Solid	3665A	218112
180-68518-2	SE BOTTOM WALL 2	Total/NA	Solid	3665A	218112
180-68518-3	SE BOTTOM WALL 3	Total/NA	Solid	3665A	218112
180-68518-4	SE SIDEWALL 1	Total/NA	Solid	3665A	218112
MB 180-218112/1-C	Method Blank	Total/NA	Solid	3665A	218112
LCS 180-218112/2-C	Lab Control Sample	Total/NA	Solid	3665A	218112
180-68518-4 MS	SE SIDEWALL 1	Total/NA	Solid	3665A	218112
180-68518-4 MSD	SE SIDEWALL 1	Total/NA	Solid	3665A	218112

Cleanup Batch: 218178

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68518-1	SE BOTTOM WALL 1	Total/NA	Solid	3660B	218177
180-68518-2	SE BOTTOM WALL 2	Total/NA	Solid	3660B	218177
180-68518-3	SE BOTTOM WALL 3	Total/NA	Solid	3660B	218177
180-68518-4	SE SIDEWALL 1	Total/NA	Solid	3660B	218177
MB 180-218112/1-C	Method Blank	Total/NA	Solid	3660B	218177
LCS 180-218112/2-C	Lab Control Sample	Total/NA	Solid	3660B	218177
180-68518-4 MS	SE SIDEWALL 1	Total/NA	Solid	3660B	218177
180-68518-4 MSD	SE SIDEWALL 1	Total/NA	Solid	3660B	218177

Analysis Batch: 218229

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68518-1	SE BOTTOM WALL 1	Total/NA	Solid	8082A	218178
180-68518-2	SE BOTTOM WALL 2	Total/NA	Solid	8082A	218178

General Chemistry

Analysis Batch: 218081

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68518-1	SE BOTTOM WALL 1	Total/NA	Solid	2540G	

General Chemistry (Continued)

Analysis Batch: 218081 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68518-2	SE BOTTOM WALL 2	Total/NA	Solid	2540G	
180-68518-3	SE BOTTOM WALL 3	Total/NA	Solid	2540G	
180-68518-4	SE SIDEWALL 1	Total/NA	Solid	2540G	

TestAmerica Pittsburgh
301 Alpha Drive RIDC Park
Pittsburgh, PA 15238
Phone (412) 963-7058 Fax (412) 963-2468

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Ellen Buelow	Lab PM: Dunlap, David A	Carrier Tracking No(s):	COC No: 180-38494-8381.1
Client Contact: Ashwin Ranna; Aron Krasnopoler	Phone: 412-552-4758	E-Mail: david.dunlap@testamericainc.com		Page: Page 1 of 1
Company: Geosyntec Consultants, Inc.				Job #:
Address: Penn Center West One, Suite 402 1 Penn Center West Drive	Due Date Requested:			
City: Pittsburgh	TAT Requested (days):			
State, Zip: PA, 15276				
Phone:	PO #: MN0832B			
Email: aranna@geosyntec.com; Akrasnopoler@geosyntec.com	WO #:			
Project Name: Former Sperry Remington Site - North IRM	Project #: 18013464			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - VOA-Select List	6010C, 7471B, 9014 - Select ICP Metals, Mercury, Cyanide	8082A, 8270D, PCBs, Select BNA	8260C - VOA-Select List (Trip Blanks only)	8270D 8082A PCB	asbestos Aaron Ranna DED 7/25/17	Total Number of containers	Special Instructions/Note:
Preservation Code:							N	N	N	A	N			
SE Bottom Wall 1	7.23.2017	930	G	Solid	N	N					X			RUSH
SE Bottom Wall 2	7.23.2017	945	G	Solid	N	N					X			
SE Bottom Wall 3	7.23.2017	955	G	Solid	N	N					X			
SE Sidewall 1	7.24.2017	1620	G	Solid	N	N					X			
Foundry Brick Sample	7.24.2017	1900	G	Solid	N	N						X		
				Solid										
				Solid										
				Solid										
				Solid										
				Solid										
				Solid										

180-68518 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment: Fed ex			
Relinquished by: Ashwin Ranna	Date/Time: 7.24.2017/1845	Company: Geosyntec	Received by:	Date/Time: 7/25/17 0915	Company: TAL
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: △ Yes △ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

7/28/2017

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 180-68518-1

Login Number: 68518
List Number: 1
Creator: Neri, Tom

List Source: TestAmerica Pittsburgh

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

TestAmerica Job ID: 180-68518-2
Client Project/Site: Former Sperry Remington Site - North IRM

For:
Geosyntec Consultants, Inc.
10211 Wincopin Circle
4'th Floor
Columbia, Maryland 21044

Attn: Mr. Aron Krasnopoler

Authorized for release by:
7/28/2017 10:43:04 AM

David Dunlap, Senior Project Manager
(412)963-2432
david.dunlap@testamericainc.com

LINKS

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Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68518-2

Job ID: 180-68518-2

Laboratory: TestAmerica Pittsburgh

Narrative

Job Narrative
180-68518-2

Receipt
The samples were received on 7/25/2017 9:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 2.6º C, 4.1º C and 4.4º C.

Asbestos
The asbestos analysis was completed at RJ Lee Group, Inc., Monroeville, PA. Their report is attached.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68518-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-68518-5	FOUNDRY BRICK SAMPLE	Solid	07/24/17 18:00	07/25/17 09:15

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68518-2

Method	Method Description	Protocol	Laboratory
Asbestos-PLM	General Sub Contract Method	NONE	RJLee-SRO

Protocol References:

NONE = NONE

Laboratory References:

RJLee-SRO = RJ Lee Group - SRO, 350 Hochberg Rd, Monroeville, PA 15146

RJ Lee Group, Inc.
350 Hochberg Road, Monroeville, PA 15146
Tel: 724-325-1776 | Fax: 724-733-1799

Laboratory Report

TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
United States
Attention: David Dunlap
Telephone: 412-963-2432

Report Date	07/28/2017
Sample Receipt Date	07/26/2017
RJ Lee Group Job No.	AOH1046197-0
Authorization/P.O. No.	
Client Job No./Name	180-68518-2

Analysis: Asbestos in Bulk Samples by Point Count

Method: NYELAP Method 198.1

RJLG Sample Number	Client Sample Number	Homogeneous	# of Layers	Asbestos Detected(%)	Non-Asbestos Fibers(%)	Non-Fibrous Materials(%)	Matrix Material	Analyst - Analysis Date
10411782.HPL	FOUNDRY BRICK SAMPLE(180-6818-5)	Yes	1	ND		100.00	B, OP, M	AKB-07/27/2017

Description: Beige Foundry Brick Sample
Limit Of Detection = 0.25%.
400 Points Counted.

Weight Loss: 0.0%

RJ LeeGroup, Inc.

Laboratory Report (Cont)

Client Job No./Name: 180-68518-2

RJ Lee Group Job No: AOH1046197-0

RJLG Sample Number	Client Sample Number	Homogeneous	# of Layers	Asbestos Detected(%)	Non-Asbestos Fibers(%)	Non-Fibrous Materials(%)	Matrix Material	Analyst - Analysis Date

Authorized Signature: Allan K. Bullock

Allan K. Bullock, Microscopist

ASBESTOS

AM = Amosite
AC = Actinolite
AN = Anthophyllite
CH = Chrysotile
CR = Crocidolite
TR = Tremolite

NON-ASBESTOS

CE = Cellulose
MW = Mineral Wool
FG = Fibrous Glass
SF = Synthetic Fibers
H = Hair
W = Wollastonite
OF = Other Fibers

NON-FIBROUS MATERIALS

AM = Amphibole
B = Binder
CA = Carbonates
CL = Clay
F = Feldspar
G = Gypsum
HY = Hydromagnesite
M = Miscellaneous
MI = Mica
OP = Opaque
OR = Organic
P = Perlite
Q = Quartz
T = Tar
V = Vermiculite

DISCLAIMER NOTES

· "ND" indicates no asbestos was detected; the method detection limit is 0.25%.
· "Trace" or "<" indicates asbestos was identified in the sample, but the concentration is less than the method quantitation limit. PLM coefficients of variance range from approximately 1.8 at the quantitation limit of 0.25% to 0.32 at high fiber concentrations.
· Samples are archived for three months following analysis and are then properly discarded.
· These results are submitted pursuant to RJ Lee Group's current terms and conditions of sale, including the company's standard warranty and limitation of liability provisions. No responsibility or liability is assumed for the manner in which these results are used or interpreted.
· This test report relates to the items tested.
· This report is not valid unless it bears the name of a NVLAP Lab Code 101208-0 approved signatory.
· Any reproduction of this document must be in full in order for the report to be valid.
· This report may not be used to claim product endorsement by NVLAP Lab Code 101208-0, any agency of the U.S. Government or any other laboratory accrediting agency.
· Polarized-light microscopy is not consistently reliable in detecting asbestos in floor coverings and similar nonfriable organically bound materials. Quantitative transmission electron microscopy is currently the only method that can be used to determine if this material can be considered or treated as "non-asbestos-containing."
· Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA #100364, NY ELAP #10884) facility.
· If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratorys results are limited to the reported values.

TestAmerica Pittsburgh
301 Alpha Drive RIDC Park
Pittsburgh, PA 15238
Phone (412) 963-7058 Fax (412) 963-2468

AOH 1046197-0

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Dunlap, David A	Carrier Tracking No(s):	COC No: 180-293309.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: david.dunlap@testamericainc.com	State of Origin: New York	Page: Page 1 of 1
Company: RJ Lee Group, Inc		Accreditations Required (See note): NELAP - New York		Job #: 180-68518-2
Address: 350 Hochberg Rd, ,	Due Date Requested: 7/28/2017			
City: Monroeville	TAT Requested (days):			
State, Zip: PA, 15146				
Phone:	PO #:			
Email:	WO #:			
Project Name: Former Sperry Remington Site - North IRM	Project #: 18013464			
Site:	SSOW#:			

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SUB (Asbestos-PLM)/ Asbestos-PLM	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
FOUNDRY BRICK SAMPLE (180-68518-5)	7/24/17	18:00 Eastern		Solid			X	2	

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	7/25/17 1700			7/25/17 1700	TA
Relinquished by:	Date/Time: 7/25/17 1900	Company TA	Received by: Lisa Hall	Date/Time: 7/26/17 8:30AM	Company RJLG
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

TestAmerica Pittsburgh
301 Alpha Drive RIDC Park
Pittsburgh, PA 15238
Phone (412) 963-7058 Fax (412) 963-2468

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Ellen Buelow	Lab PM: Dunlap, David A	Carrier Tracking No(s):	COC No: 180-38494-8381.1
Client Contact: Ashwin Ranna; Aron Krasnopoler	Phone: 412-552-4758	E-Mail: david.dunlap@testamericainc.com		Page: Page 1 of 1
Company: Geosyntec Consultants, Inc.				Job #:
Address: Penn Center West One, Suite 402 1 Penn Center West Drive	Due Date Requested:			
City: Pittsburgh	TAT Requested (days):			
State, Zip: PA, 15276				
Phone:	PO #: MN0832B			
Email: aranna@geosyntec.com; Akrasnopoler@geosyntec.com	WO #:			
Project Name: Former Sperry Remington Site - North IRM	Project #: 18013464			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - VOA-Select List	6010C, 7471B, 9014 - Select ICP Metals, Mercury, Cyanide	8082A, 8270D, PCBs, Select BNA	8260C - VOA-Select List (Trip Blanks only)	8270D 8082A PCB	asbestos Aaron Ranna DED 7/25/17	Total Number of containers	Special Instructions/Note:
Preservation Code:							N	N	N	A	N			
SE Bottom Wall 1	7.23.2017	930	G	Solid	N	N					X			RUSH
SE Bottom Wall 2	7.23.2017	945	G	Solid	N	N					X			
SE Bottom Wall 3	7.23.2017	955	G	Solid	N	N					X			
SE Sidewall 1	7.24.2017	1620	G	Solid	N	N					X			
Foundry Brick Sample	7.24.2017	1900	G	Solid	N	N						X		
				Solid										
				Solid										
				Solid										
				Solid										
				Solid										
				Solid										

180-68518 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment: Fedex			
Relinquished by: Ashwin Ranna	Date/Time: 7.24.2017/1845	Company: Geosyntec	Received by:	Date/Time: 7/25/17 0915	Company: TAPT	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company	

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 180-68518-2

Login Number: 68518
List Number: 1
Creator: Neri, Tom

List Source: TestAmerica Pittsburgh

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

TestAmerica Job ID: 180-68556-1
Client Project/Site: Former Sperry Remington Site - North IRM

For:
Geosyntec Consultants, Inc.
10211 Wincopin Circle
4'th Floor
Columbia, Maryland 21044

Attn: Mr. Aron Krasnopoler

Authorized for release by:
7/31/2017 6:55:32 PM

David Dunlap, Senior Project Manager
(412)963-2432
david.dunlap@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68556-1

Job ID: 180-68556-1

Laboratory: TestAmerica Pittsburgh

Narrative

Job Narrative
180-68556-1

Receipt
The samples were received on 7/26/2017 7:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.7º C.

GC/MS VOA
Method(s) 8260C: The matrix spike/matrix spike duplicate (MS/MSD) of sample WB7-8, S5, A 72517 (180-68556-1) had several recoveries slightly above the control limits. The recoveries of the laboratory control sample (LCS) were within the control limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method(s) 8270D LL: The matrix spike (MS) of sample WB7-8, S5, C 72517 (180-68556-3) had several recoveries slightly below the control limits. The RPD between the spikes was above the control limits for all analytes. The recoveries of the matrix spike duplicate (MSD) and laboratory control sample were within the control limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals
Method(s) 7471B: The matrix spike duplicate (MSD) of sample WB7-8, S5, C 72517 (180-68556-3) was above the control limits for mercury. The recoveries of the matrix spike (MS) and laboratory control sample were within the control limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.

GC/MS Semi VOA

Qualifier	Qualifier Description
F2	MS/MSD RPD exceeds control limits
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance limits.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

General Chemistry

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc. TestAmerica Job ID: 180-68556-1
Project/Site: Former Sperry Remington Site - North IRM

Laboratory: TestAmerica Pittsburgh

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	11182	03-31-18

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
2540G		Solid	Percent Moisture
2540G		Solid	Percent Solids
8270D LL	3541	Solid	1,4-Dioxane

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68556-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-68556-1	WB7-8, S5, A 72517	Solid	07/25/17 11:35	07/26/17 07:30
180-68556-2	WB7-8, S5, B 72517	Solid	07/25/17 11:50	07/26/17 07:30
180-68556-3	WB7-8, S5, C 72517	Solid	07/25/17 11:55	07/26/17 07:30
180-68556-4	WB6-7, S1, A 72517	Solid	07/25/17 15:10	07/26/17 07:30
180-68556-5	WB6-7, S1, B 72517	Solid	07/25/17 15:20	07/26/17 07:30
180-68556-6	WB6-7, S1, C 72517	Solid	07/25/17 15:25	07/26/17 07:30
180-68556-7	WB6-7, S2, A 72517	Solid	07/25/17 16:35	07/26/17 07:30
180-68556-8	WB6-7, S2, B 72517	Solid	07/25/17 16:25	07/26/17 07:30
180-68556-9	WB6-7, S2, C 72517	Solid	07/25/17 16:40	07/26/17 07:30
180-68556-10	DUP 17 72517	Solid	07/25/17 00:00	07/26/17 07:30
180-68556-11	TRIP BLANK	Water	07/25/17 00:00	07/26/17 07:30

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68556-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL PIT
8260C	Volatile Organic Compounds (GC/MS)	SW846	TAL PIT
8270D LL	Semivolatile Organic Compounds by GC/MS - Low Level	SW846	TAL PIT
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL PIT
6010C	Metals (ICP)	SW846	TAL PIT
7471B	Mercury (CVAA)	SW846	TAL PIT
2540G	SM 2540G	SM22	TAL PIT
9014	Cyanide	SW846	TAL PIT

Protocol References:

SM22 = SM22

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68556-1

Client Sample ID: WB7-8, S5, A 72517
Date Collected: 07/25/17 11:35
Date Received: 07/26/17 07:30

Lab Sample ID: 180-68556-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218185	07/26/17 15:12	JJZ	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: WB7-8, S5, A 72517
Date Collected: 07/25/17 11:35
Date Received: 07/26/17 07:30

Lab Sample ID: 180-68556-1
Matrix: Solid
Percent Solids: 82.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.132 g	5 mL	218236	07/27/17 05:30	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	218225	07/27/17 09:03	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: WB7-8, S5, B 72517
Date Collected: 07/25/17 11:50
Date Received: 07/26/17 07:30

Lab Sample ID: 180-68556-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218185	07/26/17 15:12	JJZ	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: WB7-8, S5, B 72517
Date Collected: 07/25/17 11:50
Date Received: 07/26/17 07:30

Lab Sample ID: 180-68556-2
Matrix: Solid
Percent Solids: 84.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.9514 g	5 mL	218236	07/27/17 05:30	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	218225	07/27/17 09:25	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: WB7-8, S5, C 72517
Date Collected: 07/25/17 11:55
Date Received: 07/26/17 07:30

Lab Sample ID: 180-68556-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218185	07/26/17 15:12	JJZ	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: WB7-8, S5, C 72517
Date Collected: 07/25/17 11:55
Date Received: 07/26/17 07:30

Lab Sample ID: 180-68556-3
Matrix: Solid
Percent Solids: 75.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	0.5 mL	218278	07/27/17 11:20	MAL	TAL PIT

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68556-1

Client Sample ID: WB7-8, S5, C 72517
Date Collected: 07/25/17 11:55
Date Received: 07/26/17 07:30

Lab Sample ID: 180-68556-3
Matrix: Solid
Percent Solids: 75.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8270D LL		1	1 mL	1 mL	218265	07/27/17 18:11	VVP	TAL PIT
	Instrument ID: CH732									
Total/NA	Prep	3541			15.0 g	20.0 mL	218279	07/27/17 11:28	MAL	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	218348	07/28/17 05:08	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	218349	07/28/17 05:09	JMO	TAL PIT
Total/NA	Analysis	8082A		1			218352	07/28/17 08:06	JMO	TAL PIT
	Instrument ID: CHGC16									
Total/NA	Prep	3050B			0.96 g	100 mL	218293	07/27/17 12:44	CRM	TAL PIT
Total/NA	Analysis	6010C		1			218421	07/28/17 09:16	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.57 g	100 mL	218383	07/31/17 08:10	RJR	TAL PIT
Total/NA	Analysis	7471B		1			218639	07/31/17 11:42	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.02 g	50 mL	218282	07/27/17 11:19	JAS	TAL PIT
Total/NA	Analysis	9014		1			218335	07/27/17 14:59	JAS	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: WB6-7, S1, A 72517
Date Collected: 07/25/17 15:10
Date Received: 07/26/17 07:30

Lab Sample ID: 180-68556-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218185	07/26/17 15:12	JJZ	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: WB6-7, S1, A 72517
Date Collected: 07/25/17 15:10
Date Received: 07/26/17 07:30

Lab Sample ID: 180-68556-4
Matrix: Solid
Percent Solids: 77.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.9238 g	5 mL	218236	07/27/17 05:30	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	218225	07/27/17 09:48	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: WB6-7, S1, B 72517
Date Collected: 07/25/17 15:20
Date Received: 07/26/17 07:30

Lab Sample ID: 180-68556-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218185	07/26/17 15:12	JJZ	TAL PIT
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68556-1

Client Sample ID: WB6-7, S1, B 72517
Date Collected: 07/25/17 15:20
Date Received: 07/26/17 07:30

Lab Sample ID: 180-68556-5
Matrix: Solid
Percent Solids: 77.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.5191 g	5 mL	218236	07/27/17 05:30	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	218225	07/27/17 10:10	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: WB6-7, S1, C 72517
Date Collected: 07/25/17 15:25
Date Received: 07/26/17 07:30

Lab Sample ID: 180-68556-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218185	07/26/17 15:12	JJZ	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: WB6-7, S1, C 72517
Date Collected: 07/25/17 15:25
Date Received: 07/26/17 07:30

Lab Sample ID: 180-68556-6
Matrix: Solid
Percent Solids: 77.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	0.5 mL	218278	07/27/17 11:20	MAL	TAL PIT
Total/NA	Analysis	8270D LL		1	1 mL	1 mL	218265	07/27/17 19:32	VVP	TAL PIT
	Instrument ID: CH732									
Total/NA	Prep	3541			15.0 g	20.0 mL	218279	07/27/17 11:28	MAL	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	218348	07/28/17 05:08	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	218349	07/28/17 05:09	JMO	TAL PIT
Total/NA	Analysis	8082A		1			218352	07/28/17 09:08	JMO	TAL PIT
	Instrument ID: CHGC16									
Total/NA	Prep	3050B			1.01 g	100 mL	218293	07/27/17 12:44	CRM	TAL PIT
Total/NA	Analysis	6010C		1			218421	07/28/17 09:50	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.62 g	100 mL	218383	07/31/17 08:10	RJR	TAL PIT
Total/NA	Analysis	7471B		1			218639	07/31/17 11:52	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.00 g	50 mL	218282	07/27/17 11:19	JAS	TAL PIT
Total/NA	Analysis	9014		1			218335	07/27/17 15:08	JAS	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: WB6-7, S2, A 72517
Date Collected: 07/25/17 16:35
Date Received: 07/26/17 07:30

Lab Sample ID: 180-68556-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218185	07/26/17 15:12	JJZ	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: WB6-7, S2, A 72517
Date Collected: 07/25/17 16:35
Date Received: 07/26/17 07:30

Lab Sample ID: 180-68556-7
Matrix: Solid
Percent Solids: 71.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.6665 g	5 mL	218236	07/27/17 05:30	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	218225	07/27/17 10:33	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: WB6-7, S2, B 72517
Date Collected: 07/25/17 16:25
Date Received: 07/26/17 07:30

Lab Sample ID: 180-68556-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218185	07/26/17 15:12	JJZ	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: WB6-7, S2, B 72517
Date Collected: 07/25/17 16:25
Date Received: 07/26/17 07:30

Lab Sample ID: 180-68556-8
Matrix: Solid
Percent Solids: 84.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			7.4758 g	5 mL	218236	07/27/17 05:30	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	218225	07/27/17 10:56	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: WB6-7, S2, C 72517
Date Collected: 07/25/17 16:40
Date Received: 07/26/17 07:30

Lab Sample ID: 180-68556-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218185	07/26/17 15:12	JJZ	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: WB6-7, S2, C 72517
Date Collected: 07/25/17 16:40
Date Received: 07/26/17 07:30

Lab Sample ID: 180-68556-9
Matrix: Solid
Percent Solids: 82.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	0.5 mL	218278	07/27/17 11:20	MAL	TAL PIT
Total/NA	Analysis	8270D LL		1	1 mL	1 mL	218265	07/27/17 19:59	VVP	TAL PIT
	Instrument ID: CH732									
Total/NA	Prep	3541			15.0 g	20.0 mL	218279	07/27/17 11:28	MAL	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	218348	07/28/17 05:08	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	218349	07/28/17 05:09	JMO	TAL PIT
Total/NA	Analysis	8082A		1			218352	07/28/17 09:29	JMO	TAL PIT
	Instrument ID: CHGC16									
Total/NA	Prep	3050B			1.01 g	100 mL	218293	07/27/17 12:44	CRM	TAL PIT

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68556-1

Client Sample ID: WB6-7, S2, C 72517

Date Collected: 07/25/17 16:40
Date Received: 07/26/17 07:30

Lab Sample ID: 180-68556-9

Matrix: Solid
Percent Solids: 82.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	6010C		1			218421	07/28/17 09:55	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.57 g	100 mL	218383	07/31/17 08:10	RJR	TAL PIT
Total/NA	Analysis	7471B		1			218639	07/31/17 11:55	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.02 g	50 mL	218282	07/27/17 11:19	JAS	TAL PIT
Total/NA	Analysis	9014		1			218335	07/27/17 15:10	JAS	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: DUP 17 72517

Date Collected: 07/25/17 00:00
Date Received: 07/26/17 07:30

Lab Sample ID: 180-68556-10

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218185	07/26/17 15:12	JJZ	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: DUP 17 72517

Date Collected: 07/25/17 00:00
Date Received: 07/26/17 07:30

Lab Sample ID: 180-68556-10

Matrix: Solid
Percent Solids: 79.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.0205 g	5 mL	218236	07/27/17 05:30	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	218225	07/27/17 11:18	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: TRIP BLANK

Date Collected: 07/25/17 00:00
Date Received: 07/26/17 07:30

Lab Sample ID: 180-68556-11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	218214	07/27/17 05:26	FBB	TAL PIT
	Instrument ID: CHHP6									

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Analyst References:

Lab: TAL PIT

Batch Type: Cleanup

JMO = John Oravec

Batch Type: Prep

CRM = Caitlin McEvoy

JAS = Joshua Schmidt

KLG = Kathy Gordon

MAL = Michael Lonzo

RJR = Ron Rosenbaum

Batch Type: Analysis

FBB = Frank Bungard

JAS = Joshua Schmidt

JJZ = Joseph Zubrow

JMO = John Oravec

KLG = Kathy Gordon

RJG = Rob Good

RJR = Ron Rosenbaum

VVP = Vincent Piccolino

Client Sample ID: WB7-8, S5, A 72517

Lab Sample ID: 180-68556-1
Date Collected: 07/25/17 11:35
Matrix: Solid
Date Received: 07/26/17 07:30
Percent Solids: 82.4

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.029	0.0046	mg/Kg	☼	07/27/17 05:30	07/27/17 09:03	1
Benzene	ND		0.0073	0.0029	mg/Kg	☼	07/27/17 05:30	07/27/17 09:03	1
2-Butanone (MEK)	ND		0.0073	0.0043	mg/Kg	☼	07/27/17 05:30	07/27/17 09:03	1
Carbon tetrachloride	ND	F1	0.0073	0.0049	mg/Kg	☼	07/27/17 05:30	07/27/17 09:03	1
Chlorobenzene	ND		0.0073	0.0023	mg/Kg	☼	07/27/17 05:30	07/27/17 09:03	1
Chloroform	ND		0.0073	0.0031	mg/Kg	☼	07/27/17 05:30	07/27/17 09:03	1
cis-1,2-Dichloroethene	ND		0.0073	0.0023	mg/Kg	☼	07/27/17 05:30	07/27/17 09:03	1
1,2-Dichlorobenzene	ND		0.0073	0.0059	mg/Kg	☼	07/27/17 05:30	07/27/17 09:03	1
1,3-Dichlorobenzene	ND		0.0073	0.0023	mg/Kg	☼	07/27/17 05:30	07/27/17 09:03	1
1,4-Dichlorobenzene	ND		0.0073	0.0015	mg/Kg	☼	07/27/17 05:30	07/27/17 09:03	1
1,1-Dichloroethane	ND		0.0073	0.0027	mg/Kg	☼	07/27/17 05:30	07/27/17 09:03	1
1,2-Dichloroethane	ND		0.0073	0.0021	mg/Kg	☼	07/27/17 05:30	07/27/17 09:03	1
1,1-Dichloroethene	ND		0.0073	0.0042	mg/Kg	☼	07/27/17 05:30	07/27/17 09:03	1
Ethylbenzene	ND		0.0073	0.0032	mg/Kg	☼	07/27/17 05:30	07/27/17 09:03	1
Methylene Chloride	ND		0.0073	0.0035	mg/Kg	☼	07/27/17 05:30	07/27/17 09:03	1
Methyl tert-butyl ether	ND		0.0073	0.0054	mg/Kg	☼	07/27/17 05:30	07/27/17 09:03	1
n-Butylbenzene	ND		0.0073	0.0056	mg/Kg	☼	07/27/17 05:30	07/27/17 09:03	1
N-Propylbenzene	ND	F1	0.0073	0.0031	mg/Kg	☼	07/27/17 05:30	07/27/17 09:03	1
sec-Butylbenzene	ND		0.0073	0.0036	mg/Kg	☼	07/27/17 05:30	07/27/17 09:03	1
tert-Butylbenzene	ND		0.0073	0.0027	mg/Kg	☼	07/27/17 05:30	07/27/17 09:03	1
Tetrachloroethene	ND		0.0073	0.0029	mg/Kg	☼	07/27/17 05:30	07/27/17 09:03	1
Toluene	ND		0.0073	0.0025	mg/Kg	☼	07/27/17 05:30	07/27/17 09:03	1
trans-1,2-Dichloroethene	ND		0.0073	0.0037	mg/Kg	☼	07/27/17 05:30	07/27/17 09:03	1
1,1,1-Trichloroethane	ND	F1	0.0073	0.0037	mg/Kg	☼	07/27/17 05:30	07/27/17 09:03	1
Trichloroethene	ND		0.0073	0.0022	mg/Kg	☼	07/27/17 05:30	07/27/17 09:03	1
1,2,4-Trimethylbenzene	ND	F1	0.0073	0.0020	mg/Kg	☼	07/27/17 05:30	07/27/17 09:03	1
1,3,5-Trimethylbenzene	ND		0.0073	0.0025	mg/Kg	☼	07/27/17 05:30	07/27/17 09:03	1
Vinyl chloride	ND		0.0073	0.0054	mg/Kg	☼	07/27/17 05:30	07/27/17 09:03	1
Xylenes, Total	ND		0.015	0.0063	mg/Kg	☼	07/27/17 05:30	07/27/17 09:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*63 - 120*	*07/27/17 05:30*	*07/27/17 09:03*	*1*
Dibromofluoromethane (Surr)	*100*		*68 - 121*	*07/27/17 05:30*	*07/27/17 09:03*	*1*
1,2-Dichloroethane-d4 (Surr)	*89*		*52 - 124*	*07/27/17 05:30*	*07/27/17 09:03*	*1*
Toluene-d8 (Surr)	*109*		*72 - 127*	*07/27/17 05:30*	*07/27/17 09:03*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**17.6**		0.1	0.1	%			07/26/17 15:12	1
Percent Solids	**82.4**		0.1	0.1	%			07/26/17 15:12	1

Client Sample ID: WB7-8, S5, B 72517

Lab Sample ID: 180-68556-2
Date Collected: 07/25/17 11:50
Matrix: Solid
Date Received: 07/26/17 07:30
Percent Solids: 84.5

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.020	0.0031	mg/Kg	☼	07/27/17 05:30	07/27/17 09:25	1
Benzene	ND		0.0050	0.0020	mg/Kg	☼	07/27/17 05:30	07/27/17 09:25	1
2-Butanone (MEK)	ND		0.0050	0.0029	mg/Kg	☼	07/27/17 05:30	07/27/17 09:25	1

Client Sample ID: WB7-8, S5, B 72517 — Lab Sample ID: 180-68556-2

Date Collected: 07/25/17 11:50 — **Matrix: Solid**
Date Received: 07/26/17 07:30 — **Percent Solids: 84.5**

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	ND		0.0050	0.0033	mg/Kg	☼	07/27/17 05:30	07/27/17 09:25	1
Chlorobenzene	ND		0.0050	0.0016	mg/Kg	☼	07/27/17 05:30	07/27/17 09:25	1
Chloroform	ND		0.0050	0.0021	mg/Kg	☼	07/27/17 05:30	07/27/17 09:25	1
cis-1,2-Dichloroethene	ND		0.0050	0.0016	mg/Kg	☼	07/27/17 05:30	07/27/17 09:25	1
1,2-Dichlorobenzene	ND		0.0050	0.0040	mg/Kg	☼	07/27/17 05:30	07/27/17 09:25	1
1,3-Dichlorobenzene	ND		0.0050	0.0016	mg/Kg	☼	07/27/17 05:30	07/27/17 09:25	1
1,4-Dichlorobenzene	ND		0.0050	0.0010	mg/Kg	☼	07/27/17 05:30	07/27/17 09:25	1
1,1-Dichloroethane	ND		0.0050	0.0018	mg/Kg	☼	07/27/17 05:30	07/27/17 09:25	1
1,2-Dichloroethane	ND		0.0050	0.0014	mg/Kg	☼	07/27/17 05:30	07/27/17 09:25	1
1,1-Dichloroethene	ND		0.0050	0.0028	mg/Kg	☼	07/27/17 05:30	07/27/17 09:25	1
Ethylbenzene	ND		0.0050	0.0021	mg/Kg	☼	07/27/17 05:30	07/27/17 09:25	1
Methylene Chloride	ND		0.0050	0.0023	mg/Kg	☼	07/27/17 05:30	07/27/17 09:25	1
Methyl tert-butyl ether	ND		0.0050	0.0037	mg/Kg	☼	07/27/17 05:30	07/27/17 09:25	1
n-Butylbenzene	ND		0.0050	0.0038	mg/Kg	☼	07/27/17 05:30	07/27/17 09:25	1
N-Propylbenzene	ND		0.0050	0.0021	mg/Kg	☼	07/27/17 05:30	07/27/17 09:25	1
sec-Butylbenzene	ND		0.0050	0.0024	mg/Kg	☼	07/27/17 05:30	07/27/17 09:25	1
tert-Butylbenzene	ND		0.0050	0.0018	mg/Kg	☼	07/27/17 05:30	07/27/17 09:25	1
Tetrachloroethene	ND		0.0050	0.0020	mg/Kg	☼	07/27/17 05:30	07/27/17 09:25	1
Toluene	ND		0.0050	0.0017	mg/Kg	☼	07/27/17 05:30	07/27/17 09:25	1
trans-1,2-Dichloroethene	ND		0.0050	0.0025	mg/Kg	☼	07/27/17 05:30	07/27/17 09:25	1
1,1,1-Trichloroethane	ND		0.0050	0.0025	mg/Kg	☼	07/27/17 05:30	07/27/17 09:25	1
Trichloroethene	ND		0.0050	0.0015	mg/Kg	☼	07/27/17 05:30	07/27/17 09:25	1
1,2,4-Trimethylbenzene	ND		0.0050	0.0013	mg/Kg	☼	07/27/17 05:30	07/27/17 09:25	1
1,3,5-Trimethylbenzene	ND		0.0050	0.0017	mg/Kg	☼	07/27/17 05:30	07/27/17 09:25	1
Vinyl chloride	ND		0.0050	0.0036	mg/Kg	☼	07/27/17 05:30	07/27/17 09:25	1
Xylenes, Total	ND		0.0099	0.0043	mg/Kg	☼	07/27/17 05:30	07/27/17 09:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*63 - 120*	*07/27/17 05:30*	*07/27/17 09:25*	*1*
Dibromofluoromethane (Surr)	*98*		*68 - 121*	*07/27/17 05:30*	*07/27/17 09:25*	*1*
1,2-Dichloroethane-d4 (Surr)	*88*		*52 - 124*	*07/27/17 05:30*	*07/27/17 09:25*	*1*
Toluene-d8 (Surr)	*110*		*72 - 127*	*07/27/17 05:30*	*07/27/17 09:25*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**15.5**		0.1	0.1	%			07/26/17 15:12	1
Percent Solids	**84.5**		0.1	0.1	%			07/26/17 15:12	1

Client Sample ID: WB7-8, S5, C 72517 — Lab Sample ID: 180-68556-3

Date Collected: 07/25/17 11:55 — **Matrix: Solid**
Date Received: 07/26/17 07:30 — **Percent Solids: 75.3**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.0091**	**F2**	0.0089	0.0030	mg/Kg	☼	07/27/17 11:20	07/27/17 18:11	1
Acenaphthylene	**0.038**	**F2 F1**	0.0089	0.0030	mg/Kg	☼	07/27/17 11:20	07/27/17 18:11	1
Anthracene	**0.036**	**F2 F1**	0.0089	0.0033	mg/Kg	☼	07/27/17 11:20	07/27/17 18:11	1
Benzo[a]anthracene	**0.097**	**F2 F1**	0.0089	0.0035	mg/Kg	☼	07/27/17 11:20	07/27/17 18:11	1
Benzo[a]pyrene	**0.10**	**F2**	0.0089	0.0037	mg/Kg	☼	07/27/17 11:20	07/27/17 18:11	1
Benzo[b]fluoranthene	**0.14**	**F2 F1**	0.0089	0.0038	mg/Kg	☼	07/27/17 11:20	07/27/17 18:11	1

Client Sample ID: WB7-8, S5, C 72517 **Lab Sample ID: 180-68556-3**
Date Collected: 07/25/17 11:55 **Matrix: Solid**
Date Received: 07/26/17 07:30 **Percent Solids: 75.3**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	**0.096**	**F2**	0.0089	0.0038	mg/Kg	☼	07/27/17 11:20	07/27/17 18:11	1
Benzo[k]fluoranthene	**0.051**	**F2 F1**	0.0089	0.0031	mg/Kg	☼	07/27/17 11:20	07/27/17 18:11	1
Chrysene	**0.11**	**F2**	0.0089	0.0035	mg/Kg	☼	07/27/17 11:20	07/27/17 18:11	1
Dibenz(a,h)anthracene	**0.024**	**F2**	0.0089	0.0037	mg/Kg	☼	07/27/17 11:20	07/27/17 18:11	1
Dibenzofuran	**0.0075**	**J F2**	0.044	0.0035	mg/Kg	☼	07/27/17 11:20	07/27/17 18:11	1
1,4-Dioxane	ND	F2	0.089	0.0067	mg/Kg	☼	07/27/17 11:20	07/27/17 18:11	1
Fluoranthene	**0.18**	**F2**	0.0089	0.0035	mg/Kg	☼	07/27/17 11:20	07/27/17 18:11	1
Fluorene	**0.011**	**F2**	0.0089	0.0032	mg/Kg	☼	07/27/17 11:20	07/27/17 18:11	1
Hexachlorobenzene	ND	F2	0.0089	0.0036	mg/Kg	☼	07/27/17 11:20	07/27/17 18:11	1
Indeno[1,2,3-cd]pyrene	**0.082**	**F2**	0.0089	0.0034	mg/Kg	☼	07/27/17 11:20	07/27/17 18:11	1
2-Methylphenol	ND	F2	0.044	0.0039	mg/Kg	☼	07/27/17 11:20	07/27/17 18:11	1
Methylphenol, 3 & 4	**0.012**	**J F2**	0.044	0.0039	mg/Kg	☼	07/27/17 11:20	07/27/17 18:11	1
Naphthalene	**0.015**	**F2**	0.0089	0.0032	mg/Kg	☼	07/27/17 11:20	07/27/17 18:11	1
Pentachlorophenol	ND	F2	0.23	0.084	mg/Kg	☼	07/27/17 11:20	07/27/17 18:11	1
Phenanthrene	**0.085**	**F2 F1**	0.0089	0.0037	mg/Kg	☼	07/27/17 11:20	07/27/17 18:11	1
Phenol	ND	F2	0.044	0.0060	mg/Kg	☼	07/27/17 11:20	07/27/17 18:11	1
Pyrene	**0.15**	**F2 F1**	0.0089	0.0039	mg/Kg	☼	07/27/17 11:20	07/27/17 18:11	1
Hexachloroethane	ND	F2	44	3.2	ug/Kg	☼	07/27/17 11:20	07/27/17 18:11	1
Nitrobenzene	ND	F2	89	3.4	ug/Kg	☼	07/27/17 11:20	07/27/17 18:11	1
Hexachlorobutadiene	ND	F2	8.9	2.8	ug/Kg	☼	07/27/17 11:20	07/27/17 18:11	1
2,4,5-Trichlorophenol	ND	F2	44	4.2	ug/Kg	☼	07/27/17 11:20	07/27/17 18:11	1
2,4,6-Trichlorophenol	ND	F2	44	3.9	ug/Kg	☼	07/27/17 11:20	07/27/17 18:11	1
2,4-Dinitrotoluene	ND	F2	44	5.9	ug/Kg	☼	07/27/17 11:20	07/27/17 18:11	1
Pyridine	ND	F2 F1	44	4.2	ug/Kg	☼	07/27/17 11:20	07/27/17 18:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*51*		*42 - 100*	*07/27/17 11:20*	*07/27/17 18:11*	*1*
2-Fluorophenol (Surr)	*50*		*21 - 107*	*07/27/17 11:20*	*07/27/17 18:11*	*1*
Nitrobenzene-d5 (Surr)	*46*		*35 - 109*	*07/27/17 11:20*	*07/27/17 18:11*	*1*
Phenol-d5 (Surr)	*50*		*29 - 105*	*07/27/17 11:20*	*07/27/17 18:11*	*1*
Terphenyl-d14 (Surr)	*51*		*36 - 113*	*07/27/17 11:20*	*07/27/17 18:11*	*1*
2,4,6-Tribromophenol (Surr)	*71*		*20 - 134*	*07/27/17 11:20*	*07/27/17 18:11*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.022	0.012	mg/Kg	☼	07/27/17 11:28	07/28/17 08:06	1
PCB-1221	ND		0.022	0.011	mg/Kg	☼	07/27/17 11:28	07/28/17 08:06	1
PCB-1232	ND		0.022	0.0088	mg/Kg	☼	07/27/17 11:28	07/28/17 08:06	1
PCB-1242	ND		0.022	0.018	mg/Kg	☼	07/27/17 11:28	07/28/17 08:06	1
PCB-1248	**0.87**		0.022	0.011	mg/Kg	☼	07/27/17 11:28	07/28/17 08:06	1
PCB-1254	**0.36**		0.022	0.0097	mg/Kg	☼	07/27/17 11:28	07/28/17 08:06	1
PCB-1260	**0.038**		0.022	0.015	mg/Kg	☼	07/27/17 11:28	07/28/17 08:06	1
PCB-1262	ND		0.022	0.016	mg/Kg	☼	07/27/17 11:28	07/28/17 08:06	1
PCB-1268	ND		0.022	0.0067	mg/Kg	☼	07/27/17 11:28	07/28/17 08:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*84*		*23 - 150*	*07/27/17 11:28*	*07/28/17 08:06*	*1*
DCB Decachlorobiphenyl (Surr)	*89*		*23 - 150*	*07/27/17 11:28*	*07/28/17 08:06*	*1*
Tetrachloro-m-xylene (Surr)	*79*		*27 - 138*	*07/27/17 11:28*	*07/28/17 08:06*	*1*
Tetrachloro-m-xylene (Surr)	*84*		*27 - 138*	*07/27/17 11:28*	*07/28/17 08:06*	*1*

Client Sample ID: WB7-8, S5, C 72517 — Lab Sample ID: 180-68556-3

Date Collected: 07/25/17 11:55 — **Matrix: Solid**
Date Received: 07/26/17 07:30 — **Percent Solids: 75.3**

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.6		1.4	0.61	mg/Kg	☼	07/27/17 12:44	07/28/17 09:16	1
Barium	90		28	7.4	mg/Kg	☼	07/27/17 12:44	07/28/17 09:16	1
Beryllium	0.38	J	0.55	0.14	mg/Kg	☼	07/27/17 12:44	07/28/17 09:16	1
Cadmium	0.26	J	0.69	0.16	mg/Kg	☼	07/27/17 12:44	07/28/17 09:16	1
Chromium	9.8		0.69	0.18	mg/Kg	☼	07/27/17 12:44	07/28/17 09:16	1
Copper	21		3.5	1.1	mg/Kg	☼	07/27/17 12:44	07/28/17 09:16	1
Lead	22		1.4	0.45	mg/Kg	☼	07/27/17 12:44	07/28/17 09:16	1
Manganese	420		2.1	0.56	mg/Kg	☼	07/27/17 12:44	07/28/17 09:16	1
Nickel	18		5.5	1.2	mg/Kg	☼	07/27/17 12:44	07/28/17 09:16	1
Selenium	ND		1.4	0.55	mg/Kg	☼	07/27/17 12:44	07/28/17 09:16	1
Silver	ND		0.69	0.23	mg/Kg	☼	07/27/17 12:44	07/28/17 09:16	1
Zinc	59		2.8	1.4	mg/Kg	☼	07/27/17 12:44	07/28/17 09:16	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.036	J F1	0.046	0.010	mg/Kg	☼	07/31/17 08:10	07/31/17 11:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	24.7		0.1	0.1	%			07/26/17 15:12	1
Percent Solids	75.3		0.1	0.1	%			07/26/17 15:12	1
Cyanide, Total	0.38	J	0.65	0.20	mg/Kg	☼	07/27/17 11:19	07/27/17 14:59	1

Client Sample ID: WB6-7, S1, A 72517 — Lab Sample ID: 180-68556-4

Date Collected: 07/25/17 15:10 — **Matrix: Solid**
Date Received: 07/26/17 07:30 — **Percent Solids: 77.5**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.026	0.0041	mg/Kg	☼	07/27/17 05:30	07/27/17 09:48	1
Benzene	ND		0.0065	0.0026	mg/Kg	☼	07/27/17 05:30	07/27/17 09:48	1
2-Butanone (MEK)	ND		0.0065	0.0038	mg/Kg	☼	07/27/17 05:30	07/27/17 09:48	1
Carbon tetrachloride	ND		0.0065	0.0043	mg/Kg	☼	07/27/17 05:30	07/27/17 09:48	1
Chlorobenzene	ND		0.0065	0.0021	mg/Kg	☼	07/27/17 05:30	07/27/17 09:48	1
Chloroform	ND		0.0065	0.0028	mg/Kg	☼	07/27/17 05:30	07/27/17 09:48	1
cis-1,2-Dichloroethene	ND		0.0065	0.0021	mg/Kg	☼	07/27/17 05:30	07/27/17 09:48	1
1,2-Dichlorobenzene	ND		0.0065	0.0053	mg/Kg	☼	07/27/17 05:30	07/27/17 09:48	1
1,3-Dichlorobenzene	ND		0.0065	0.0021	mg/Kg	☼	07/27/17 05:30	07/27/17 09:48	1
1,4-Dichlorobenzene	ND		0.0065	0.0013	mg/Kg	☼	07/27/17 05:30	07/27/17 09:48	1
1,1-Dichloroethane	ND		0.0065	0.0024	mg/Kg	☼	07/27/17 05:30	07/27/17 09:48	1
1,2-Dichloroethane	ND		0.0065	0.0019	mg/Kg	☼	07/27/17 05:30	07/27/17 09:48	1
1,1-Dichloroethene	ND		0.0065	0.0037	mg/Kg	☼	07/27/17 05:30	07/27/17 09:48	1
Ethylbenzene	ND		0.0065	0.0028	mg/Kg	☼	07/27/17 05:30	07/27/17 09:48	1
Methylene Chloride	ND		0.0065	0.0031	mg/Kg	☼	07/27/17 05:30	07/27/17 09:48	1
Methyl tert-butyl ether	ND		0.0065	0.0048	mg/Kg	☼	07/27/17 05:30	07/27/17 09:48	1
n-Butylbenzene	ND		0.0065	0.0050	mg/Kg	☼	07/27/17 05:30	07/27/17 09:48	1
N-Propylbenzene	ND		0.0065	0.0028	mg/Kg	☼	07/27/17 05:30	07/27/17 09:48	1
sec-Butylbenzene	ND		0.0065	0.0032	mg/Kg	☼	07/27/17 05:30	07/27/17 09:48	1
tert-Butylbenzene	ND		0.0065	0.0024	mg/Kg	☼	07/27/17 05:30	07/27/17 09:48	1
Tetrachloroethene	ND		0.0065	0.0026	mg/Kg	☼	07/27/17 05:30	07/27/17 09:48	1

Client Sample ID: WB6-7, S1, A 72517 — Lab Sample ID: 180-68556-4

Date Collected: 07/25/17 15:10 — **Matrix: Solid**
Date Received: 07/26/17 07:30 — **Percent Solids: 77.5**

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		0.0065	0.0022	mg/Kg	☼	07/27/17 05:30	07/27/17 09:48	1
trans-1,2-Dichloroethene	ND		0.0065	0.0033	mg/Kg	☼	07/27/17 05:30	07/27/17 09:48	1
1,1,1-Trichloroethane	ND		0.0065	0.0033	mg/Kg	☼	07/27/17 05:30	07/27/17 09:48	1
Trichloroethene	ND		0.0065	0.0020	mg/Kg	☼	07/27/17 05:30	07/27/17 09:48	1
1,2,4-Trimethylbenzene	ND		0.0065	0.0018	mg/Kg	☼	07/27/17 05:30	07/27/17 09:48	1
1,3,5-Trimethylbenzene	ND		0.0065	0.0023	mg/Kg	☼	07/27/17 05:30	07/27/17 09:48	1
Vinyl chloride	ND		0.0065	0.0048	mg/Kg	☼	07/27/17 05:30	07/27/17 09:48	1
Xylenes, Total	ND		0.013	0.0056	mg/Kg	☼	07/27/17 05:30	07/27/17 09:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*63 - 120*	*07/27/17 05:30*	*07/27/17 09:48*	*1*
Dibromofluoromethane (Surr)	*96*		*68 - 121*	*07/27/17 05:30*	*07/27/17 09:48*	*1*
1,2-Dichloroethane-d4 (Surr)	*86*		*52 - 124*	*07/27/17 05:30*	*07/27/17 09:48*	*1*
Toluene-d8 (Surr)	*107*		*72 - 127*	*07/27/17 05:30*	*07/27/17 09:48*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**22.5**		0.1	0.1	%			07/26/17 15:12	1
Percent Solids	**77.5**		0.1	0.1	%			07/26/17 15:12	1

Client Sample ID: WB6-7, S1, B 72517 — Lab Sample ID: 180-68556-5

Date Collected: 07/25/17 15:20 — **Matrix: Solid**
Date Received: 07/26/17 07:30 — **Percent Solids: 77.4**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.029	0.0045	mg/Kg	☼	07/27/17 05:30	07/27/17 10:10	1
Benzene	ND		0.0071	0.0028	mg/Kg	☼	07/27/17 05:30	07/27/17 10:10	1
2-Butanone (MEK)	ND		0.0071	0.0041	mg/Kg	☼	07/27/17 05:30	07/27/17 10:10	1
Carbon tetrachloride	ND		0.0071	0.0047	mg/Kg	☼	07/27/17 05:30	07/27/17 10:10	1
Chlorobenzene	ND		0.0071	0.0022	mg/Kg	☼	07/27/17 05:30	07/27/17 10:10	1
Chloroform	ND		0.0071	0.0030	mg/Kg	☼	07/27/17 05:30	07/27/17 10:10	1
cis-1,2-Dichloroethene	ND		0.0071	0.0022	mg/Kg	☼	07/27/17 05:30	07/27/17 10:10	1
1,2-Dichlorobenzene	ND		0.0071	0.0057	mg/Kg	☼	07/27/17 05:30	07/27/17 10:10	1
1,3-Dichlorobenzene	ND		0.0071	0.0023	mg/Kg	☼	07/27/17 05:30	07/27/17 10:10	1
1,4-Dichlorobenzene	ND		0.0071	0.0015	mg/Kg	☼	07/27/17 05:30	07/27/17 10:10	1
1,1-Dichloroethane	ND		0.0071	0.0026	mg/Kg	☼	07/27/17 05:30	07/27/17 10:10	1
1,2-Dichloroethane	ND		0.0071	0.0021	mg/Kg	☼	07/27/17 05:30	07/27/17 10:10	1
1,1-Dichloroethene	ND		0.0071	0.0041	mg/Kg	☼	07/27/17 05:30	07/27/17 10:10	1
Ethylbenzene	ND		0.0071	0.0031	mg/Kg	☼	07/27/17 05:30	07/27/17 10:10	1
Methylene Chloride	ND		0.0071	0.0034	mg/Kg	☼	07/27/17 05:30	07/27/17 10:10	1
Methyl tert-butyl ether	ND		0.0071	0.0053	mg/Kg	☼	07/27/17 05:30	07/27/17 10:10	1
n-Butylbenzene	ND		0.0071	0.0054	mg/Kg	☼	07/27/17 05:30	07/27/17 10:10	1
N-Propylbenzene	ND		0.0071	0.0030	mg/Kg	☼	07/27/17 05:30	07/27/17 10:10	1
sec-Butylbenzene	ND		0.0071	0.0035	mg/Kg	☼	07/27/17 05:30	07/27/17 10:10	1
tert-Butylbenzene	ND		0.0071	0.0026	mg/Kg	☼	07/27/17 05:30	07/27/17 10:10	1
Tetrachloroethene	ND		0.0071	0.0029	mg/Kg	☼	07/27/17 05:30	07/27/17 10:10	1
Toluene	ND		0.0071	0.0024	mg/Kg	☼	07/27/17 05:30	07/27/17 10:10	1
trans-1,2-Dichloroethene	ND		0.0071	0.0036	mg/Kg	☼	07/27/17 05:30	07/27/17 10:10	1
1,1,1-Trichloroethane	ND		0.0071	0.0036	mg/Kg	☼	07/27/17 05:30	07/27/17 10:10	1

Client Sample ID: WB6-7, S1, B 72517

Lab Sample ID: 180-68556-5
Date Collected: 07/25/17 15:20
Matrix: Solid
Date Received: 07/26/17 07:30
Percent Solids: 77.4

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	ND		0.0071	0.0021	mg/Kg	☼	07/27/17 05:30	07/27/17 10:10	1
1,2,4-Trimethylbenzene	ND		0.0071	0.0019	mg/Kg	☼	07/27/17 05:30	07/27/17 10:10	1
1,3,5-Trimethylbenzene	ND		0.0071	0.0025	mg/Kg	☼	07/27/17 05:30	07/27/17 10:10	1
Vinyl chloride	ND		0.0071	0.0052	mg/Kg	☼	07/27/17 05:30	07/27/17 10:10	1
Xylenes, Total	ND		0.014	0.0062	mg/Kg	☼	07/27/17 05:30	07/27/17 10:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*63 - 120*	*07/27/17 05:30*	*07/27/17 10:10*	*1*
Dibromofluoromethane (Surr)	*102*		*68 - 121*	*07/27/17 05:30*	*07/27/17 10:10*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*52 - 124*	*07/27/17 05:30*	*07/27/17 10:10*	*1*
Toluene-d8 (Surr)	*113*		*72 - 127*	*07/27/17 05:30*	*07/27/17 10:10*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**22.6**		0.1	0.1	%			07/26/17 15:12	1
Percent Solids	**77.4**		0.1	0.1	%			07/26/17 15:12	1

Client Sample ID: WB6-7, S1, C 72517

Lab Sample ID: 180-68556-6
Date Collected: 07/25/17 15:25
Matrix: Solid
Date Received: 07/26/17 07:30
Percent Solids: 77.2

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.0044**	**J**	0.0087	0.0029	mg/Kg	☼	07/27/17 11:20	07/27/17 19:32	1
Acenaphthylene	**0.040**		0.0087	0.0029	mg/Kg	☼	07/27/17 11:20	07/27/17 19:32	1
Anthracene	**0.035**		0.0087	0.0032	mg/Kg	☼	07/27/17 11:20	07/27/17 19:32	1
Benzo[a]anthracene	**0.12**		0.0087	0.0034	mg/Kg	☼	07/27/17 11:20	07/27/17 19:32	1
Benzo[a]pyrene	**0.13**		0.0087	0.0036	mg/Kg	☼	07/27/17 11:20	07/27/17 19:32	1
Benzo[b]fluoranthene	**0.18**		0.0087	0.0037	mg/Kg	☼	07/27/17 11:20	07/27/17 19:32	1
Benzo[g,h,i]perylene	**0.15**		0.0087	0.0037	mg/Kg	☼	07/27/17 11:20	07/27/17 19:32	1
Benzo[k]fluoranthene	**0.067**		0.0087	0.0030	mg/Kg	☼	07/27/17 11:20	07/27/17 19:32	1
Chrysene	**0.15**		0.0087	0.0034	mg/Kg	☼	07/27/17 11:20	07/27/17 19:32	1
Dibenz(a,h)anthracene	**0.032**		0.0087	0.0036	mg/Kg	☼	07/27/17 11:20	07/27/17 19:32	1
Dibenzofuran	**0.0078**	**J**	0.043	0.0035	mg/Kg	☼	07/27/17 11:20	07/27/17 19:32	1
1,4-Dioxane	ND		0.086	0.0065	mg/Kg	☼	07/27/17 11:20	07/27/17 19:32	1
Fluoranthene	**0.21**		0.0087	0.0034	mg/Kg	☼	07/27/17 11:20	07/27/17 19:32	1
Fluorene	**0.0081**	**J**	0.0087	0.0031	mg/Kg	☼	07/27/17 11:20	07/27/17 19:32	1
Hexachlorobenzene	ND		0.0087	0.0035	mg/Kg	☼	07/27/17 11:20	07/27/17 19:32	1
Indeno[1,2,3-cd]pyrene	**0.12**		0.0087	0.0033	mg/Kg	☼	07/27/17 11:20	07/27/17 19:32	1
2-Methylphenol	ND		0.043	0.0038	mg/Kg	☼	07/27/17 11:20	07/27/17 19:32	1
Methylphenol, 3 & 4	**0.0091**	**J**	0.043	0.0038	mg/Kg	☼	07/27/17 11:20	07/27/17 19:32	1
Naphthalene	**0.018**		0.0087	0.0031	mg/Kg	☼	07/27/17 11:20	07/27/17 19:32	1
Pentachlorophenol	ND		0.22	0.082	mg/Kg	☼	07/27/17 11:20	07/27/17 19:32	1
Phenanthrene	**0.075**		0.0087	0.0036	mg/Kg	☼	07/27/17 11:20	07/27/17 19:32	1
Phenol	ND		0.043	0.0058	mg/Kg	☼	07/27/17 11:20	07/27/17 19:32	1
Pyrene	**0.16**		0.0087	0.0038	mg/Kg	☼	07/27/17 11:20	07/27/17 19:32	1
Hexachloroethane	ND		43	3.1	ug/Kg	☼	07/27/17 11:20	07/27/17 19:32	1
Nitrobenzene	ND		86	3.3	ug/Kg	☼	07/27/17 11:20	07/27/17 19:32	1
Hexachlorobutadiene	ND		8.7	2.7	ug/Kg	☼	07/27/17 11:20	07/27/17 19:32	1
2,4,5-Trichlorophenol	ND		43	4.1	ug/Kg	☼	07/27/17 11:20	07/27/17 19:32	1

Client Sample ID: WB6-7, S1, C 72517
Date Collected: 07/25/17 15:25
Date Received: 07/26/17 07:30

Lab Sample ID: 180-68556-6
Matrix: Solid
Percent Solids: 77.2

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,6-Trichlorophenol	ND		43	3.8	ug/Kg	☼	07/27/17 11:20	07/27/17 19:32	1
2,4-Dinitrotoluene	ND		43	5.7	ug/Kg	☼	07/27/17 11:20	07/27/17 19:32	1
Pyridine	ND		43	4.1	ug/Kg	☼	07/27/17 11:20	07/27/17 19:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*49*		*42 - 100*	*07/27/17 11:20*	*07/27/17 19:32*	*1*
2-Fluorophenol (Surr)	*42*		*21 - 107*	*07/27/17 11:20*	*07/27/17 19:32*	*1*
Nitrobenzene-d5 (Surr)	*41*		*35 - 109*	*07/27/17 11:20*	*07/27/17 19:32*	*1*
Phenol-d5 (Surr)	*44*		*29 - 105*	*07/27/17 11:20*	*07/27/17 19:32*	*1*
Terphenyl-d14 (Surr)	*44*		*36 - 113*	*07/27/17 11:20*	*07/27/17 19:32*	*1*
2,4,6-Tribromophenol (Surr)	*60*		*20 - 134*	*07/27/17 11:20*	*07/27/17 19:32*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.022	0.011	mg/Kg	☼	07/27/17 11:28	07/28/17 09:08	1
PCB-1221	ND		0.022	0.011	mg/Kg	☼	07/27/17 11:28	07/28/17 09:08	1
PCB-1232	ND		0.022	0.0085	mg/Kg	☼	07/27/17 11:28	07/28/17 09:08	1
PCB-1242	ND		0.022	0.017	mg/Kg	☼	07/27/17 11:28	07/28/17 09:08	1
PCB-1248	**0.78**		0.022	0.010	mg/Kg	☼	07/27/17 11:28	07/28/17 09:08	1
PCB-1254	**0.29**		0.022	0.0095	mg/Kg	☼	07/27/17 11:28	07/28/17 09:08	1
PCB-1260	**0.041**		0.022	0.014	mg/Kg	☼	07/27/17 11:28	07/28/17 09:08	1
PCB-1262	ND		0.022	0.015	mg/Kg	☼	07/27/17 11:28	07/28/17 09:08	1
PCB-1268	ND		0.022	0.0066	mg/Kg	☼	07/27/17 11:28	07/28/17 09:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*84*		*23 - 150*	*07/27/17 11:28*	*07/28/17 09:08*	*1*
DCB Decachlorobiphenyl (Surr)	*87*		*23 - 150*	*07/27/17 11:28*	*07/28/17 09:08*	*1*
Tetrachloro-m-xylene (Surr)	*77*		*27 - 138*	*07/27/17 11:28*	*07/28/17 09:08*	*1*
Tetrachloro-m-xylene (Surr)	*81*		*27 - 138*	*07/27/17 11:28*	*07/28/17 09:08*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**4.7**		1.3	0.57	mg/Kg	☼	07/27/17 12:44	07/28/17 09:50	1
Barium	**72**		26	6.9	mg/Kg	☼	07/27/17 12:44	07/28/17 09:50	1
Beryllium	**0.27**	**J**	0.51	0.13	mg/Kg	☼	07/27/17 12:44	07/28/17 09:50	1
Cadmium	**0.21**	**J**	0.64	0.14	mg/Kg	☼	07/27/17 12:44	07/28/17 09:50	1
Chromium	**8.2**		0.64	0.17	mg/Kg	☼	07/27/17 12:44	07/28/17 09:50	1
Copper	**23**		3.2	0.99	mg/Kg	☼	07/27/17 12:44	07/28/17 09:50	1
Lead	**23**		1.3	0.42	mg/Kg	☼	07/27/17 12:44	07/28/17 09:50	1
Manganese	**400**		1.9	0.52	mg/Kg	☼	07/27/17 12:44	07/28/17 09:50	1
Nickel	**16**		5.1	1.2	mg/Kg	☼	07/27/17 12:44	07/28/17 09:50	1
Selenium	ND		1.3	0.51	mg/Kg	☼	07/27/17 12:44	07/28/17 09:50	1
Silver	ND		0.64	0.21	mg/Kg	☼	07/27/17 12:44	07/28/17 09:50	1
Zinc	**53**		2.6	1.3	mg/Kg	☼	07/27/17 12:44	07/28/17 09:50	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.035**	**J**	0.041	0.0093	mg/Kg	☼	07/31/17 08:10	07/31/17 11:52	1

Client Sample ID: WB6-7, S1, C 72517 — Lab Sample ID: 180-68556-6

Date Collected: 07/25/17 15:25 — **Matrix: Solid**
Date Received: 07/26/17 07:30 — **Percent Solids: 77.2**

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	22.8		0.1	0.1	%			07/26/17 15:12	1
Percent Solids	77.2		0.1	0.1	%			07/26/17 15:12	1
Cyanide, Total	0.47	J	0.65	0.20	mg/Kg	☼	07/27/17 11:19	07/27/17 15:08	1

Client Sample ID: WB6-7, S2, A 72517 — Lab Sample ID: 180-68556-7

Date Collected: 07/25/17 16:35 — **Matrix: Solid**
Date Received: 07/26/17 07:30 — **Percent Solids: 71.2**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.021	0.0033	mg/Kg	☼	07/27/17 05:30	07/27/17 10:33	1
Benzene	ND		0.0053	0.0021	mg/Kg	☼	07/27/17 05:30	07/27/17 10:33	1
2-Butanone (MEK)	ND		0.0053	0.0031	mg/Kg	☼	07/27/17 05:30	07/27/17 10:33	1
Carbon tetrachloride	ND		0.0053	0.0035	mg/Kg	☼	07/27/17 05:30	07/27/17 10:33	1
Chlorobenzene	ND		0.0053	0.0017	mg/Kg	☼	07/27/17 05:30	07/27/17 10:33	1
Chloroform	ND		0.0053	0.0022	mg/Kg	☼	07/27/17 05:30	07/27/17 10:33	1
cis-1,2-Dichloroethene	ND		0.0053	0.0017	mg/Kg	☼	07/27/17 05:30	07/27/17 10:33	1
1,2-Dichlorobenzene	ND		0.0053	0.0042	mg/Kg	☼	07/27/17 05:30	07/27/17 10:33	1
1,3-Dichlorobenzene	ND		0.0053	0.0017	mg/Kg	☼	07/27/17 05:30	07/27/17 10:33	1
1,4-Dichlorobenzene	ND		0.0053	0.0011	mg/Kg	☼	07/27/17 05:30	07/27/17 10:33	1
1,1-Dichloroethane	ND		0.0053	0.0019	mg/Kg	☼	07/27/17 05:30	07/27/17 10:33	1
1,2-Dichloroethane	ND		0.0053	0.0015	mg/Kg	☼	07/27/17 05:30	07/27/17 10:33	1
1,1-Dichloroethene	ND		0.0053	0.0030	mg/Kg	☼	07/27/17 05:30	07/27/17 10:33	1
Ethylbenzene	ND		0.0053	0.0023	mg/Kg	☼	07/27/17 05:30	07/27/17 10:33	1
Methylene Chloride	ND		0.0053	0.0025	mg/Kg	☼	07/27/17 05:30	07/27/17 10:33	1
Methyl tert-butyl ether	ND		0.0053	0.0039	mg/Kg	☼	07/27/17 05:30	07/27/17 10:33	1
n-Butylbenzene	ND		0.0053	0.0040	mg/Kg	☼	07/27/17 05:30	07/27/17 10:33	1
N-Propylbenzene	ND		0.0053	0.0022	mg/Kg	☼	07/27/17 05:30	07/27/17 10:33	1
sec-Butylbenzene	ND		0.0053	0.0026	mg/Kg	☼	07/27/17 05:30	07/27/17 10:33	1
tert-Butylbenzene	ND		0.0053	0.0019	mg/Kg	☼	07/27/17 05:30	07/27/17 10:33	1
Tetrachloroethene	ND		0.0053	0.0021	mg/Kg	☼	07/27/17 05:30	07/27/17 10:33	1
Toluene	ND		0.0053	0.0018	mg/Kg	☼	07/27/17 05:30	07/27/17 10:33	1
trans-1,2-Dichloroethene	ND		0.0053	0.0027	mg/Kg	☼	07/27/17 05:30	07/27/17 10:33	1
1,1,1-Trichloroethane	ND		0.0053	0.0026	mg/Kg	☼	07/27/17 05:30	07/27/17 10:33	1
Trichloroethene	ND		0.0053	0.0016	mg/Kg	☼	07/27/17 05:30	07/27/17 10:33	1
1,2,4-Trimethylbenzene	ND		0.0053	0.0014	mg/Kg	☼	07/27/17 05:30	07/27/17 10:33	1
1,3,5-Trimethylbenzene	ND		0.0053	0.0018	mg/Kg	☼	07/27/17 05:30	07/27/17 10:33	1
Vinyl chloride	ND		0.0053	0.0039	mg/Kg	☼	07/27/17 05:30	07/27/17 10:33	1
Xylenes, Total	ND		0.011	0.0045	mg/Kg	☼	07/27/17 05:30	07/27/17 10:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*63 - 120*	*07/27/17 05:30*	*07/27/17 10:33*	*1*
Dibromofluoromethane (Surr)	*96*		*68 - 121*	*07/27/17 05:30*	*07/27/17 10:33*	*1*
1,2-Dichloroethane-d4 (Surr)	*87*		*52 - 124*	*07/27/17 05:30*	*07/27/17 10:33*	*1*
Toluene-d8 (Surr)	*107*		*72 - 127*	*07/27/17 05:30*	*07/27/17 10:33*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	28.8		0.1	0.1	%			07/26/17 15:12	1
Percent Solids	71.2		0.1	0.1	%			07/26/17 15:12	1

Client Sample ID: WB6-7, S2, B 72517 — Lab Sample ID: 180-68556-8

Date Collected: 07/25/17 16:25 — **Matrix: Solid**
Date Received: 07/26/17 07:30 — **Percent Solids: 84.6**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.016	0.0025	mg/Kg	☼	07/27/17 05:30	07/27/17 10:56	1
Benzene	ND		0.0040	0.0016	mg/Kg	☼	07/27/17 05:30	07/27/17 10:56	1
2-Butanone (MEK)	ND		0.0040	0.0023	mg/Kg	☼	07/27/17 05:30	07/27/17 10:56	1
Carbon tetrachloride	ND		0.0040	0.0026	mg/Kg	☼	07/27/17 05:30	07/27/17 10:56	1
Chlorobenzene	ND		0.0040	0.0012	mg/Kg	☼	07/27/17 05:30	07/27/17 10:56	1
Chloroform	ND		0.0040	0.0017	mg/Kg	☼	07/27/17 05:30	07/27/17 10:56	1
cis-1,2-Dichloroethene	ND		0.0040	0.0012	mg/Kg	☼	07/27/17 05:30	07/27/17 10:56	1
1,2-Dichlorobenzene	ND		0.0040	0.0032	mg/Kg	☼	07/27/17 05:30	07/27/17 10:56	1
1,3-Dichlorobenzene	ND		0.0040	0.0013	mg/Kg	☼	07/27/17 05:30	07/27/17 10:56	1
1,4-Dichlorobenzene	ND		0.0040	0.00081	mg/Kg	☼	07/27/17 05:30	07/27/17 10:56	1
1,1-Dichloroethane	ND		0.0040	0.0014	mg/Kg	☼	07/27/17 05:30	07/27/17 10:56	1
1,2-Dichloroethane	ND		0.0040	0.0011	mg/Kg	☼	07/27/17 05:30	07/27/17 10:56	1
1,1-Dichloroethene	ND		0.0040	0.0023	mg/Kg	☼	07/27/17 05:30	07/27/17 10:56	1
Ethylbenzene	ND		0.0040	0.0017	mg/Kg	☼	07/27/17 05:30	07/27/17 10:56	1
Methylene Chloride	ND		0.0040	0.0019	mg/Kg	☼	07/27/17 05:30	07/27/17 10:56	1
Methyl tert-butyl ether	ND		0.0040	0.0029	mg/Kg	☼	07/27/17 05:30	07/27/17 10:56	1
n-Butylbenzene	ND		0.0040	0.0030	mg/Kg	☼	07/27/17 05:30	07/27/17 10:56	1
N-Propylbenzene	ND		0.0040	0.0017	mg/Kg	☼	07/27/17 05:30	07/27/17 10:56	1
sec-Butylbenzene	ND		0.0040	0.0019	mg/Kg	☼	07/27/17 05:30	07/27/17 10:56	1
tert-Butylbenzene	ND		0.0040	0.0014	mg/Kg	☼	07/27/17 05:30	07/27/17 10:56	1
Tetrachloroethene	ND		0.0040	0.0016	mg/Kg	☼	07/27/17 05:30	07/27/17 10:56	1
Toluene	ND		0.0040	0.0013	mg/Kg	☼	07/27/17 05:30	07/27/17 10:56	1
trans-1,2-Dichloroethene	ND		0.0040	0.0020	mg/Kg	☼	07/27/17 05:30	07/27/17 10:56	1
1,1,1-Trichloroethane	ND		0.0040	0.0020	mg/Kg	☼	07/27/17 05:30	07/27/17 10:56	1
Trichloroethene	ND		0.0040	0.0012	mg/Kg	☼	07/27/17 05:30	07/27/17 10:56	1
1,2,4-Trimethylbenzene	ND		0.0040	0.0011	mg/Kg	☼	07/27/17 05:30	07/27/17 10:56	1
1,3,5-Trimethylbenzene	ND		0.0040	0.0014	mg/Kg	☼	07/27/17 05:30	07/27/17 10:56	1
Vinyl chloride	ND		0.0040	0.0029	mg/Kg	☼	07/27/17 05:30	07/27/17 10:56	1
Xylenes, Total	ND		0.0079	0.0034	mg/Kg	☼	07/27/17 05:30	07/27/17 10:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*63 - 120*	*07/27/17 05:30*	*07/27/17 10:56*	*1*
Dibromofluoromethane (Surr)	*94*		*68 - 121*	*07/27/17 05:30*	*07/27/17 10:56*	*1*
1,2-Dichloroethane-d4 (Surr)	*85*		*52 - 124*	*07/27/17 05:30*	*07/27/17 10:56*	*1*
Toluene-d8 (Surr)	*105*		*72 - 127*	*07/27/17 05:30*	*07/27/17 10:56*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**15.4**		0.1	0.1	%			07/26/17 15:12	1
Percent Solids	**84.6**		0.1	0.1	%			07/26/17 15:12	1

Client Sample ID: WB6-7, S2, C 72517 — Lab Sample ID: 180-68556-9

Date Collected: 07/25/17 16:40 — **Matrix: Solid**
Date Received: 07/26/17 07:30 — **Percent Solids: 82.0**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.032**		0.0082	0.0027	mg/Kg	☼	07/27/17 11:20	07/27/17 19:59	1
Acenaphthylene	**0.042**		0.0082	0.0028	mg/Kg	☼	07/27/17 11:20	07/27/17 19:59	1
Anthracene	**0.10**		0.0082	0.0030	mg/Kg	☼	07/27/17 11:20	07/27/17 19:59	1

Client Sample ID: WB6-7, S2, C 72517
Date Collected: 07/25/17 16:40
Date Received: 07/26/17 07:30

Lab Sample ID: 180-68556-9
Matrix: Solid
Percent Solids: 82.0

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	**0.24**		0.0082	0.0032	mg/Kg	☼	07/27/17 11:20	07/27/17 19:59	1
Benzo[a]pyrene	**0.23**		0.0082	0.0034	mg/Kg	☼	07/27/17 11:20	07/27/17 19:59	1
Benzo[b]fluoranthene	**0.28**		0.0082	0.0035	mg/Kg	☼	07/27/17 11:20	07/27/17 19:59	1
Benzo[g,h,i]perylene	**0.24**		0.0082	0.0035	mg/Kg	☼	07/27/17 11:20	07/27/17 19:59	1
Benzo[k]fluoranthene	**0.12**		0.0082	0.0028	mg/Kg	☼	07/27/17 11:20	07/27/17 19:59	1
Chrysene	**0.27**		0.0082	0.0032	mg/Kg	☼	07/27/17 11:20	07/27/17 19:59	1
Dibenz(a,h)anthracene	**0.054**		0.0082	0.0034	mg/Kg	☼	07/27/17 11:20	07/27/17 19:59	1
Dibenzofuran	**0.023**	**J**	0.040	0.0033	mg/Kg	☼	07/27/17 11:20	07/27/17 19:59	1
1,4-Dioxane	ND		0.081	0.0061	mg/Kg	☼	07/27/17 11:20	07/27/17 19:59	1
Fluoranthene	**0.51**		0.0082	0.0032	mg/Kg	☼	07/27/17 11:20	07/27/17 19:59	1
Fluorene	**0.032**		0.0082	0.0029	mg/Kg	☼	07/27/17 11:20	07/27/17 19:59	1
Hexachlorobenzene	ND		0.0082	0.0033	mg/Kg	☼	07/27/17 11:20	07/27/17 19:59	1
Indeno[1,2,3-cd]pyrene	**0.20**		0.0082	0.0031	mg/Kg	☼	07/27/17 11:20	07/27/17 19:59	1
2-Methylphenol	ND		0.040	0.0036	mg/Kg	☼	07/27/17 11:20	07/27/17 19:59	1
Methylphenol, 3 & 4	**0.0055**	**J**	0.040	0.0036	mg/Kg	☼	07/27/17 11:20	07/27/17 19:59	1
Naphthalene	**0.028**		0.0082	0.0029	mg/Kg	☼	07/27/17 11:20	07/27/17 19:59	1
Pentachlorophenol	ND		0.21	0.077	mg/Kg	☼	07/27/17 11:20	07/27/17 19:59	1
Phenanthrene	**0.31**		0.0082	0.0034	mg/Kg	☼	07/27/17 11:20	07/27/17 19:59	1
Phenol	ND		0.040	0.0055	mg/Kg	☼	07/27/17 11:20	07/27/17 19:59	1
Pyrene	**0.38**		0.0082	0.0036	mg/Kg	☼	07/27/17 11:20	07/27/17 19:59	1
Hexachloroethane	ND		40	2.9	ug/Kg	☼	07/27/17 11:20	07/27/17 19:59	1
Nitrobenzene	ND		81	3.1	ug/Kg	☼	07/27/17 11:20	07/27/17 19:59	1
Hexachlorobutadiene	ND		8.2	2.6	ug/Kg	☼	07/27/17 11:20	07/27/17 19:59	1
2,4,5-Trichlorophenol	ND		40	3.9	ug/Kg	☼	07/27/17 11:20	07/27/17 19:59	1
2,4,6-Trichlorophenol	ND		40	3.6	ug/Kg	☼	07/27/17 11:20	07/27/17 19:59	1
2,4-Dinitrotoluene	ND		40	5.4	ug/Kg	☼	07/27/17 11:20	07/27/17 19:59	1
Pyridine	ND		40	3.9	ug/Kg	☼	07/27/17 11:20	07/27/17 19:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*61*		*42 - 100*	*07/27/17 11:20*	*07/27/17 19:59*	*1*
2-Fluorophenol (Surr)	*56*		*21 - 107*	*07/27/17 11:20*	*07/27/17 19:59*	*1*
Nitrobenzene-d5 (Surr)	*53*		*35 - 109*	*07/27/17 11:20*	*07/27/17 19:59*	*1*
Phenol-d5 (Surr)	*55*		*29 - 105*	*07/27/17 11:20*	*07/27/17 19:59*	*1*
Terphenyl-d14 (Surr)	*56*		*36 - 113*	*07/27/17 11:20*	*07/27/17 19:59*	*1*
2,4,6-Tribromophenol (Surr)	*76*		*20 - 134*	*07/27/17 11:20*	*07/27/17 19:59*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.020	0.011	mg/Kg	☼	07/27/17 11:28	07/28/17 09:29	1
PCB-1221	ND		0.020	0.011	mg/Kg	☼	07/27/17 11:28	07/28/17 09:29	1
PCB-1232	ND		0.020	0.0081	mg/Kg	☼	07/27/17 11:28	07/28/17 09:29	1
PCB-1242	ND		0.020	0.016	mg/Kg	☼	07/27/17 11:28	07/28/17 09:29	1
PCB-1248	**0.98**		0.020	0.0097	mg/Kg	☼	07/27/17 11:28	07/28/17 09:29	1
PCB-1254	**0.43**		0.020	0.0089	mg/Kg	☼	07/27/17 11:28	07/28/17 09:29	1
PCB-1260	**0.059**		0.020	0.014	mg/Kg	☼	07/27/17 11:28	07/28/17 09:29	1
PCB-1262	ND		0.020	0.015	mg/Kg	☼	07/27/17 11:28	07/28/17 09:29	1
PCB-1268	ND		0.020	0.0062	mg/Kg	☼	07/27/17 11:28	07/28/17 09:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*90*		*23 - 150*	*07/27/17 11:28*	*07/28/17 09:29*	*1*

Client Sample ID: WB6-7, S2, C 72517 — Lab Sample ID: 180-68556-9

Date Collected: 07/25/17 16:40 — **Matrix: Solid**
Date Received: 07/26/17 07:30 — **Percent Solids: 82.0**

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	94		23 - 150	07/27/17 11:28	07/28/17 09:29	1
Tetrachloro-m-xylene (Surr)	80		27 - 138	07/27/17 11:28	07/28/17 09:29	1
Tetrachloro-m-xylene (Surr)	83		27 - 138	07/27/17 11:28	07/28/17 09:29	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.1		1.2	0.53	mg/Kg	☼	07/27/17 12:44	07/28/17 09:55	1
Barium	68		24	6.5	mg/Kg	☼	07/27/17 12:44	07/28/17 09:55	1
Beryllium	0.31	J	0.48	0.13	mg/Kg	☼	07/27/17 12:44	07/28/17 09:55	1
Cadmium	0.16	J	0.60	0.14	mg/Kg	☼	07/27/17 12:44	07/28/17 09:55	1
Chromium	10		0.60	0.16	mg/Kg	☼	07/27/17 12:44	07/28/17 09:55	1
Copper	35		3.0	0.93	mg/Kg	☼	07/27/17 12:44	07/28/17 09:55	1
Lead	28		1.2	0.40	mg/Kg	☼	07/27/17 12:44	07/28/17 09:55	1
Manganese	400		1.8	0.49	mg/Kg	☼	07/27/17 12:44	07/28/17 09:55	1
Nickel	18		4.8	1.1	mg/Kg	☼	07/27/17 12:44	07/28/17 09:55	1
Selenium	ND		1.2	0.48	mg/Kg	☼	07/27/17 12:44	07/28/17 09:55	1
Silver	ND		0.60	0.20	mg/Kg	☼	07/27/17 12:44	07/28/17 09:55	1
Zinc	55		2.4	1.2	mg/Kg	☼	07/27/17 12:44	07/28/17 09:55	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.033	J	0.042	0.0095	mg/Kg	☼	07/31/17 08:10	07/31/17 11:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	18.0		0.1	0.1	%			07/26/17 15:12	1
Percent Solids	82.0		0.1	0.1	%			07/26/17 15:12	1
Cyanide, Total	0.29	J	0.60	0.18	mg/Kg	☼	07/27/17 11:19	07/27/17 15:10	1

Client Sample ID: DUP 17 72517 — Lab Sample ID: 180-68556-10

Date Collected: 07/25/17 00:00 — **Matrix: Solid**
Date Received: 07/26/17 07:30 — **Percent Solids: 79.1**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.021	0.0033	mg/Kg	☼	07/27/17 05:30	07/27/17 11:18	1
Benzene	ND		0.0052	0.0021	mg/Kg	☼	07/27/17 05:30	07/27/17 11:18	1
2-Butanone (MEK)	ND		0.0052	0.0030	mg/Kg	☼	07/27/17 05:30	07/27/17 11:18	1
Carbon tetrachloride	ND		0.0052	0.0035	mg/Kg	☼	07/27/17 05:30	07/27/17 11:18	1
Chlorobenzene	ND		0.0052	0.0017	mg/Kg	☼	07/27/17 05:30	07/27/17 11:18	1
Chloroform	ND		0.0052	0.0022	mg/Kg	☼	07/27/17 05:30	07/27/17 11:18	1
cis-1,2-Dichloroethene	ND		0.0052	0.0017	mg/Kg	☼	07/27/17 05:30	07/27/17 11:18	1
1,2-Dichlorobenzene	ND		0.0052	0.0042	mg/Kg	☼	07/27/17 05:30	07/27/17 11:18	1
1,3-Dichlorobenzene	ND		0.0052	0.0017	mg/Kg	☼	07/27/17 05:30	07/27/17 11:18	1
1,4-Dichlorobenzene	ND		0.0052	0.0011	mg/Kg	☼	07/27/17 05:30	07/27/17 11:18	1
1,1-Dichloroethane	ND		0.0052	0.0019	mg/Kg	☼	07/27/17 05:30	07/27/17 11:18	1
1,2-Dichloroethane	ND		0.0052	0.0015	mg/Kg	☼	07/27/17 05:30	07/27/17 11:18	1
1,1-Dichloroethene	ND		0.0052	0.0030	mg/Kg	☼	07/27/17 05:30	07/27/17 11:18	1
Ethylbenzene	ND		0.0052	0.0023	mg/Kg	☼	07/27/17 05:30	07/27/17 11:18	1
Methylene Chloride	ND		0.0052	0.0025	mg/Kg	☼	07/27/17 05:30	07/27/17 11:18	1

Client Sample ID: DUP 17 72517

Lab Sample ID: 180-68556-10
Date Collected: 07/25/17 00:00
Matrix: Solid
Date Received: 07/26/17 07:30
Percent Solids: 79.1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.0052	0.0039	mg/Kg	☼	07/27/17 05:30	07/27/17 11:18	1
n-Butylbenzene	ND		0.0052	0.0040	mg/Kg	☼	07/27/17 05:30	07/27/17 11:18	1
N-Propylbenzene	ND		0.0052	0.0022	mg/Kg	☼	07/27/17 05:30	07/27/17 11:18	1
sec-Butylbenzene	ND		0.0052	0.0026	mg/Kg	☼	07/27/17 05:30	07/27/17 11:18	1
tert-Butylbenzene	ND		0.0052	0.0019	mg/Kg	☼	07/27/17 05:30	07/27/17 11:18	1
Tetrachloroethene	ND		0.0052	0.0021	mg/Kg	☼	07/27/17 05:30	07/27/17 11:18	1
Toluene	ND		0.0052	0.0018	mg/Kg	☼	07/27/17 05:30	07/27/17 11:18	1
trans-1,2-Dichloroethene	ND		0.0052	0.0027	mg/Kg	☼	07/27/17 05:30	07/27/17 11:18	1
1,1,1-Trichloroethane	ND		0.0052	0.0026	mg/Kg	☼	07/27/17 05:30	07/27/17 11:18	1
Trichloroethene	ND		0.0052	0.0016	mg/Kg	☼	07/27/17 05:30	07/27/17 11:18	1
1,2,4-Trimethylbenzene	ND		0.0052	0.0014	mg/Kg	☼	07/27/17 05:30	07/27/17 11:18	1
1,3,5-Trimethylbenzene	ND		0.0052	0.0018	mg/Kg	☼	07/27/17 05:30	07/27/17 11:18	1
Vinyl chloride	ND		0.0052	0.0039	mg/Kg	☼	07/27/17 05:30	07/27/17 11:18	1
Xylenes, Total	ND		0.010	0.0045	mg/Kg	☼	07/27/17 05:30	07/27/17 11:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*63 - 120*	*07/27/17 05:30*	*07/27/17 11:18*	*1*
Dibromofluoromethane (Surr)	*98*		*68 - 121*	*07/27/17 05:30*	*07/27/17 11:18*	*1*
1,2-Dichloroethane-d4 (Surr)	*89*		*52 - 124*	*07/27/17 05:30*	*07/27/17 11:18*	*1*
Toluene-d8 (Surr)	*108*		*72 - 127*	*07/27/17 05:30*	*07/27/17 11:18*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**20.9**		0.1	0.1	%			07/26/17 15:12	1
Percent Solids	**79.1**		0.1	0.1	%			07/26/17 15:12	1

Client Sample ID: TRIP BLANK

Lab Sample ID: 180-68556-11
Date Collected: 07/25/17 00:00
Matrix: Water
Date Received: 07/26/17 07:30

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**5.1**		5.0	3.1	ug/L			07/27/17 05:26	1
Benzene	ND		1.0	0.18	ug/L			07/27/17 05:26	1
2-Butanone (MEK)	ND		5.0	2.6	ug/L			07/27/17 05:26	1
Carbon tetrachloride	ND		1.0	0.56	ug/L			07/27/17 05:26	1
Chlorobenzene	ND		1.0	0.15	ug/L			07/27/17 05:26	1
Chloroform	ND		1.0	0.27	ug/L			07/27/17 05:26	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			07/27/17 05:26	1
1,2-Dichlorobenzene	ND		1.0	0.23	ug/L			07/27/17 05:26	1
1,3-Dichlorobenzene	ND		1.0	0.21	ug/L			07/27/17 05:26	1
1,4-Dichlorobenzene	ND		1.0	0.24	ug/L			07/27/17 05:26	1
1,1-Dichloroethane	ND		1.0	0.34	ug/L			07/27/17 05:26	1
1,2-Dichloroethane	ND		1.0	0.24	ug/L			07/27/17 05:26	1
1,1-Dichloroethene	ND		1.0	0.32	ug/L			07/27/17 05:26	1
Ethylbenzene	ND		1.0	0.25	ug/L			07/27/17 05:26	1
Methylene Chloride	ND		1.0	0.94	ug/L			07/27/17 05:26	1
Methyl tert-butyl ether	ND		1.0	0.20	ug/L			07/27/17 05:26	1
n-Butylbenzene	ND		1.0	0.22	ug/L			07/27/17 05:26	1
N-Propylbenzene	ND		1.0	0.20	ug/L			07/27/17 05:26	1

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68556-1

Client Sample ID: TRIP BLANK
Date Collected: 07/25/17 00:00
Date Received: 07/26/17 07:30

Lab Sample ID: 180-68556-11
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.22	ug/L			07/27/17 05:26	1
tert-Butylbenzene	ND		1.0	0.17	ug/L			07/27/17 05:26	1
Tetrachloroethene	ND		1.0	0.24	ug/L			07/27/17 05:26	1
Toluene	ND		1.0	0.16	ug/L			07/27/17 05:26	1
trans-1,2-Dichloroethene	ND		1.0	0.20	ug/L			07/27/17 05:26	1
1,1,1-Trichloroethane	ND		1.0	0.27	ug/L			07/27/17 05:26	1
Trichloroethene	ND		1.0	0.20	ug/L			07/27/17 05:26	1
1,2,4-Trimethylbenzene	ND		1.0	0.18	ug/L			07/27/17 05:26	1
1,3,5-Trimethylbenzene	ND		1.0	0.17	ug/L			07/27/17 05:26	1
Vinyl chloride	ND		1.0	0.17	ug/L			07/27/17 05:26	1
Xylenes, Total	ND		2.0	0.27	ug/L			07/27/17 05:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*72 - 120*		*07/27/17 05:26*	*1*
Dibromofluoromethane (Surr)	*86*		*77 - 127*		*07/27/17 05:26*	*1*
1,2-Dichloroethane-d4 (Surr)	*78*		*72 - 134*		*07/27/17 05:26*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*07/27/17 05:26*	*1*

Method: 8260C - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 180-218214/6
Matrix: Water
Analysis Batch: 218214

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		5.0	3.1	ug/L			07/27/17 03:15	1
Benzene	ND		1.0	0.18	ug/L			07/27/17 03:15	1
2-Butanone (MEK)	ND		5.0	2.6	ug/L			07/27/17 03:15	1
Carbon tetrachloride	ND		1.0	0.56	ug/L			07/27/17 03:15	1
Chlorobenzene	ND		1.0	0.15	ug/L			07/27/17 03:15	1
Chloroform	ND		1.0	0.27	ug/L			07/27/17 03:15	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			07/27/17 03:15	1
1,2-Dichlorobenzene	ND		1.0	0.23	ug/L			07/27/17 03:15	1
1,3-Dichlorobenzene	ND		1.0	0.21	ug/L			07/27/17 03:15	1
1,4-Dichlorobenzene	ND		1.0	0.24	ug/L			07/27/17 03:15	1
1,1-Dichloroethane	ND		1.0	0.34	ug/L			07/27/17 03:15	1
1,2-Dichloroethane	ND		1.0	0.24	ug/L			07/27/17 03:15	1
1,1-Dichloroethene	ND		1.0	0.32	ug/L			07/27/17 03:15	1
Ethylbenzene	ND		1.0	0.25	ug/L			07/27/17 03:15	1
Methylene Chloride	ND		1.0	0.94	ug/L			07/27/17 03:15	1
Methyl tert-butyl ether	ND		1.0	0.20	ug/L			07/27/17 03:15	1
n-Butylbenzene	ND		1.0	0.22	ug/L			07/27/17 03:15	1
N-Propylbenzene	ND		1.0	0.20	ug/L			07/27/17 03:15	1
sec-Butylbenzene	ND		1.0	0.22	ug/L			07/27/17 03:15	1
tert-Butylbenzene	ND		1.0	0.17	ug/L			07/27/17 03:15	1
Tetrachloroethene	ND		1.0	0.24	ug/L			07/27/17 03:15	1
Toluene	ND		1.0	0.16	ug/L			07/27/17 03:15	1
trans-1,2-Dichloroethene	ND		1.0	0.20	ug/L			07/27/17 03:15	1
1,1,1-Trichloroethane	ND		1.0	0.27	ug/L			07/27/17 03:15	1
Trichloroethene	ND		1.0	0.20	ug/L			07/27/17 03:15	1
1,2,4-Trimethylbenzene	ND		1.0	0.18	ug/L			07/27/17 03:15	1
1,3,5-Trimethylbenzene	ND		1.0	0.17	ug/L			07/27/17 03:15	1
Vinyl chloride	ND		1.0	0.17	ug/L			07/27/17 03:15	1
Xylenes, Total	ND		2.0	0.27	ug/L			07/27/17 03:15	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*72 - 120*		*07/27/17 03:15*	*1*
Dibromofluoromethane (Surr)	*82*		*77 - 127*		*07/27/17 03:15*	*1*
1,2-Dichloroethane-d4 (Surr)	*75*		*72 - 134*		*07/27/17 03:15*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*07/27/17 03:15*	*1*

Lab Sample ID: LCS 180-218214/3
Matrix: Water
Analysis Batch: 218214

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	20.0	20.1		ug/L		100	10 - 150
Benzene	10.0	10.2		ug/L		102	80 - 121
2-Butanone (MEK)	20.0	20.0		ug/L		100	41 - 150
Carbon tetrachloride	10.0	9.77		ug/L		98	59 - 145
Chlorobenzene	10.0	10.3		ug/L		103	80 - 120
Chloroform	10.0	9.71		ug/L		97	78 - 122
cis-1,2-Dichloroethene	10.0	9.86		ug/L		99	80 - 120

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 180-218214/3
Matrix: Water
Analysis Batch: 218214

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichlorobenzene	10.0	10.1		ug/L		101	80 - 120
1,3-Dichlorobenzene	10.0	10.1		ug/L		101	80 - 120
1,4-Dichlorobenzene	10.0	10.1		ug/L		101	80 - 120
1,1-Dichloroethane	10.0	10.0		ug/L		100	76 - 126
1,2-Dichloroethane	10.0	8.83		ug/L		88	72 - 126
1,1-Dichloroethene	10.0	9.57		ug/L		96	71 - 122
Ethylbenzene	10.0	10.4		ug/L		104	80 - 123
Methylene Chloride	10.0	9.58		ug/L		96	71 - 129
Methyl tert-butyl ether	10.0	9.01		ug/L		90	68 - 124
n-Butylbenzene	10.0	11.2		ug/L		112	75 - 120
N-Propylbenzene	10.0	10.6		ug/L		106	78 - 121
sec-Butylbenzene	10.0	11.3		ug/L		113	80 - 121
tert-Butylbenzene	10.0	11.1		ug/L		111	79 - 120
Tetrachloroethene	10.0	10.1		ug/L		101	80 - 122
Toluene	10.0	11.0		ug/L		110	80 - 125
trans-1,2-Dichloroethene	10.0	9.94		ug/L		99	80 - 121
1,1,1-Trichloroethane	10.0	9.83		ug/L		98	57 - 128
Trichloroethene	10.0	9.85		ug/L		99	79 - 120
1,2,4-Trimethylbenzene	10.0	10.8		ug/L		108	80 - 120
1,3,5-Trimethylbenzene	10.0	11.2		ug/L		112	80 - 122
Vinyl chloride	10.0	10.1		ug/L		101	61 - 138
Xylenes, Total	20.0	21.0		ug/L		105	80 - 123

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*72 - 120*
Dibromofluoromethane (Surr)	*95*		*77 - 127*
1,2-Dichloroethane-d4 (Surr)	*87*		*72 - 134*
Toluene-d8 (Surr)	*112*		*80 - 120*

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 180-218225/7
Matrix: Solid
Analysis Batch: 218225

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.020	0.0032	mg/Kg			07/27/17 08:40	1
Benzene	ND		0.0050	0.0020	mg/Kg			07/27/17 08:40	1
2-Butanone (MEK)	ND		0.0050	0.0029	mg/Kg			07/27/17 08:40	1
Carbon tetrachloride	ND		0.0050	0.0033	mg/Kg			07/27/17 08:40	1
Chlorobenzene	ND		0.0050	0.0016	mg/Kg			07/27/17 08:40	1
Chloroform	ND		0.0050	0.0021	mg/Kg			07/27/17 08:40	1
cis-1,2-Dichloroethene	ND		0.0050	0.0016	mg/Kg			07/27/17 08:40	1
1,2-Dichlorobenzene	ND		0.0050	0.0040	mg/Kg			07/27/17 08:40	1
1,3-Dichlorobenzene	ND		0.0050	0.0016	mg/Kg			07/27/17 08:40	1
1,4-Dichlorobenzene	ND		0.0050	0.0010	mg/Kg			07/27/17 08:40	1
1,1-Dichloroethane	ND		0.0050	0.0018	mg/Kg			07/27/17 08:40	1
1,2-Dichloroethane	ND		0.0050	0.0015	mg/Kg			07/27/17 08:40	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 180-218225/7
Matrix: Solid
Analysis Batch: 218225

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		0.0050	0.0029	mg/Kg			07/27/17 08:40	1
Ethylbenzene	ND		0.0050	0.0022	mg/Kg			07/27/17 08:40	1
Methylene Chloride	ND		0.0050	0.0024	mg/Kg			07/27/17 08:40	1
Methyl tert-butyl ether	ND		0.0050	0.0037	mg/Kg			07/27/17 08:40	1
n-Butylbenzene	ND		0.0050	0.0038	mg/Kg			07/27/17 08:40	1
N-Propylbenzene	ND		0.0050	0.0021	mg/Kg			07/27/17 08:40	1
sec-Butylbenzene	ND		0.0050	0.0024	mg/Kg			07/27/17 08:40	1
tert-Butylbenzene	ND		0.0050	0.0018	mg/Kg			07/27/17 08:40	1
Tetrachloroethene	ND		0.0050	0.0020	mg/Kg			07/27/17 08:40	1
Toluene	ND		0.0050	0.0017	mg/Kg			07/27/17 08:40	1
trans-1,2-Dichloroethene	ND		0.0050	0.0025	mg/Kg			07/27/17 08:40	1
1,1,1-Trichloroethane	ND		0.0050	0.0025	mg/Kg			07/27/17 08:40	1
Trichloroethene	ND		0.0050	0.0015	mg/Kg			07/27/17 08:40	1
1,2,4-Trimethylbenzene	ND		0.0050	0.0013	mg/Kg			07/27/17 08:40	1
1,3,5-Trimethylbenzene	ND		0.0050	0.0017	mg/Kg			07/27/17 08:40	1
Vinyl chloride	ND		0.0050	0.0037	mg/Kg			07/27/17 08:40	1
Xylenes, Total	ND		0.010	0.0043	mg/Kg			07/27/17 08:40	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*63 - 120*		*07/27/17 08:40*	*1*
Dibromofluoromethane (Surr)	*102*		*68 - 121*		*07/27/17 08:40*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*52 - 124*		*07/27/17 08:40*	*1*
Toluene-d8 (Surr)	*103*		*72 - 127*		*07/27/17 08:40*	*1*

Lab Sample ID: LCS 180-218225/3
Matrix: Solid
Analysis Batch: 218225

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0400	0.0431		mg/Kg		108	20 - 150
Benzene	0.0400	0.0402		mg/Kg		101	77 - 120
2-Butanone (MEK)	0.0400	0.0413		mg/Kg		103	35 - 149
Carbon tetrachloride	0.0400	0.0433		mg/Kg		108	69 - 122
Chlorobenzene	0.0400	0.0395		mg/Kg		99	79 - 120
Chloroform	0.0400	0.0421		mg/Kg		105	72 - 120
cis-1,2-Dichloroethene	0.0400	0.0414		mg/Kg		103	80 - 118
1,2-Dichlorobenzene	0.0400	0.0399		mg/Kg		100	71 - 124
1,3-Dichlorobenzene	0.0400	0.0403		mg/Kg		101	75 - 118
1,4-Dichlorobenzene	0.0400	0.0405		mg/Kg		101	77 - 116
1,1-Dichloroethane	0.0400	0.0420		mg/Kg		105	66 - 124
1,2-Dichloroethane	0.0400	0.0407		mg/Kg		102	61 - 127
1,1-Dichloroethene	0.0400	0.0425		mg/Kg		106	59 - 129
Ethylbenzene	0.0400	0.0400		mg/Kg		100	78 - 125
Methylene Chloride	0.0400	0.0417		mg/Kg		104	58 - 127
Methyl tert-butyl ether	0.0400	0.0425		mg/Kg		106	48 - 132
n-Butylbenzene	0.0400	0.0447		mg/Kg		112	59 - 145
N-Propylbenzene	0.0400	0.0419		mg/Kg		105	80 - 120
sec-Butylbenzene	0.0400	0.0436		mg/Kg		109	70 - 130

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 180-218225/3
Matrix: Solid
Analysis Batch: 218225

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
tert-Butylbenzene	0.0400	0.0424		mg/Kg		106	74 - 133
Tetrachloroethene	0.0400	0.0388		mg/Kg		97	78 - 129
Toluene	0.0400	0.0390		mg/Kg		98	78 - 124
trans-1,2-Dichloroethene	0.0400	0.0425		mg/Kg		106	77 - 121
1,1,1-Trichloroethane	0.0400	0.0441		mg/Kg		110	67 - 126
Trichloroethene	0.0400	0.0399		mg/Kg		100	76 - 119
1,2,4-Trimethylbenzene	0.0400	0.0423		mg/Kg		106	80 - 121
1,3,5-Trimethylbenzene	0.0400	0.0422		mg/Kg		106	68 - 133
Vinyl chloride	0.0400	0.0405		mg/Kg		101	63 - 124
Xylenes, Total	0.0800	0.0797		mg/Kg		100	83 - 126

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*63 - 120*
Dibromofluoromethane (Surr)	*102*		*68 - 121*
1,2-Dichloroethane-d4 (Surr)	*102*		*52 - 124*
Toluene-d8 (Surr)	*99*		*72 - 127*

Lab Sample ID: 180-68556-1 MS
Matrix: Solid
Analysis Batch: 218225

Client Sample ID: WB7-8, S5, A 72517
Prep Type: Total/NA
Prep Batch: 218236

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	ND		0.0439	0.0306		mg/Kg	☼	70	20 - 150
Benzene	ND		0.0439	0.0474		mg/Kg	☼	108	77 - 120
2-Butanone (MEK)	ND		0.0439	0.0290		mg/Kg	☼	66	35 - 149
Carbon tetrachloride	ND	F1	0.0439	0.0555	F1	mg/Kg	☼	127	69 - 122
Chlorobenzene	ND		0.0439	0.0468		mg/Kg	☼	107	79 - 120
Chloroform	ND		0.0439	0.0484		mg/Kg	☼	110	72 - 120
cis-1,2-Dichloroethene	ND		0.0439	0.0477		mg/Kg	☼	109	80 - 118
1,2-Dichlorobenzene	ND		0.0439	0.0442		mg/Kg	☼	101	71 - 124
1,3-Dichlorobenzene	ND		0.0439	0.0481		mg/Kg	☼	110	75 - 118
1,4-Dichlorobenzene	ND		0.0439	0.0473		mg/Kg	☼	108	77 - 116
1,1-Dichloroethane	ND		0.0439	0.0497		mg/Kg	☼	113	66 - 124
1,2-Dichloroethane	ND		0.0439	0.0395		mg/Kg	☼	90	61 - 127
1,1-Dichloroethene	ND		0.0439	0.0506		mg/Kg	☼	115	59 - 129
Ethylbenzene	ND		0.0439	0.0493		mg/Kg	☼	112	78 - 125
Methylene Chloride	ND		0.0439	0.0446		mg/Kg	☼	102	58 - 127
Methyl tert-butyl ether	ND		0.0439	0.0366		mg/Kg	☼	83	48 - 132
n-Butylbenzene	ND		0.0439	0.0546		mg/Kg	☼	124	59 - 145
N-Propylbenzene	ND	F1	0.0439	0.0553	F1	mg/Kg	☼	126	80 - 120
sec-Butylbenzene	ND		0.0439	0.0557		mg/Kg	☼	127	70 - 130
tert-Butylbenzene	ND		0.0439	0.0566		mg/Kg	☼	129	74 - 133
Tetrachloroethene	ND		0.0439	0.0497		mg/Kg	☼	113	78 - 129
Toluene	ND		0.0439	0.0488		mg/Kg	☼	111	78 - 124
trans-1,2-Dichloroethene	ND		0.0439	0.0515		mg/Kg	☼	117	77 - 121
1,1,1-Trichloroethane	ND	F1	0.0439	0.0558	F1	mg/Kg	☼	127	67 - 126
Trichloroethene	ND		0.0439	0.0480		mg/Kg	☼	109	76 - 119
1,2,4-Trimethylbenzene	ND	F1	0.0439	0.0532		mg/Kg	☼	121	80 - 121

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 180-68556-1 MS
Matrix: Solid
Analysis Batch: 218225

Client Sample ID: WB7-8, S5, A 72517
Prep Type: Total/NA
Prep Batch: 218236

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,3,5-Trimethylbenzene	ND		0.0439	0.0543		mg/Kg	☼	124	68 - 133
Vinyl chloride	ND		0.0439	0.0483		mg/Kg	☼	110	63 - 124
Xylenes, Total	ND		0.0878	0.0961		mg/Kg	☼	109	83 - 126

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*63 - 120*
Dibromofluoromethane (Surr)	*104*		*68 - 121*
1,2-Dichloroethane-d4 (Surr)	*87*		*52 - 124*
Toluene-d8 (Surr)	*110*		*72 - 127*

Lab Sample ID: 180-68556-1 MSD
Matrix: Solid
Analysis Batch: 218225

Client Sample ID: WB7-8, S5, A 72517
Prep Type: Total/NA
Prep Batch: 218236

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	ND		0.0429	0.0321		mg/Kg	☼	75	20 - 150	5	40
Benzene	ND		0.0429	0.0468		mg/Kg	☼	109	77 - 120	1	20
2-Butanone (MEK)	ND		0.0429	0.0316		mg/Kg	☼	74	35 - 149	8	36
Carbon tetrachloride	ND	F1	0.0429	0.0530	F1	mg/Kg	☼	124	69 - 122	5	22
Chlorobenzene	ND		0.0429	0.0463		mg/Kg	☼	108	79 - 120	1	20
Chloroform	ND		0.0429	0.0484		mg/Kg	☼	113	72 - 120	0	25
cis-1,2-Dichloroethene	ND		0.0429	0.0472		mg/Kg	☼	110	80 - 118	1	20
1,2-Dichlorobenzene	ND		0.0429	0.0447		mg/Kg	☼	104	71 - 124	1	22
1,3-Dichlorobenzene	ND		0.0429	0.0477		mg/Kg	☼	111	75 - 118	1	20
1,4-Dichlorobenzene	ND		0.0429	0.0472		mg/Kg	☼	110	77 - 116	0	20
1,1-Dichloroethane	ND		0.0429	0.0492		mg/Kg	☼	115	66 - 124	1	23
1,2-Dichloroethane	ND		0.0429	0.0408		mg/Kg	☼	95	61 - 127	3	23
1,1-Dichloroethene	ND		0.0429	0.0504		mg/Kg	☼	118	59 - 129	0	25
Ethylbenzene	ND		0.0429	0.0482		mg/Kg	☼	113	78 - 125	2	21
Methylene Chloride	ND		0.0429	0.0447		mg/Kg	☼	104	58 - 127	0	28
Methyl tert-butyl ether	ND		0.0429	0.0391		mg/Kg	☼	91	48 - 132	7	36
n-Butylbenzene	ND		0.0429	0.0519		mg/Kg	☼	121	59 - 145	5	24
N-Propylbenzene	ND	F1	0.0429	0.0532	F1	mg/Kg	☼	124	80 - 120	4	20
sec-Butylbenzene	ND		0.0429	0.0533		mg/Kg	☼	124	70 - 130	4	21
tert-Butylbenzene	ND		0.0429	0.0546		mg/Kg	☼	127	74 - 133	4	22
Tetrachloroethene	ND		0.0429	0.0472		mg/Kg	☼	110	78 - 129	5	20
Toluene	ND		0.0429	0.0480		mg/Kg	☼	112	78 - 124	2	21
trans-1,2-Dichloroethene	ND		0.0429	0.0499		mg/Kg	☼	116	77 - 121	3	20
1,1,1-Trichloroethane	ND	F1	0.0429	0.0529		mg/Kg	☼	123	67 - 126	5	31
Trichloroethene	ND		0.0429	0.0469		mg/Kg	☼	110	76 - 119	2	21
1,2,4-Trimethylbenzene	ND	F1	0.0429	0.0525	F1	mg/Kg	☼	123	80 - 121	1	20
1,3,5-Trimethylbenzene	ND		0.0429	0.0533		mg/Kg	☼	124	68 - 133	2	21
Vinyl chloride	ND		0.0429	0.0478		mg/Kg	☼	112	63 - 124	1	27
Xylenes, Total	ND		0.0857	0.0965		mg/Kg	☼	113	83 - 126	0	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*63 - 120*

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 180-68556-1 MSD
Matrix: Solid
Analysis Batch: 218225

Client Sample ID: WB7-8, S5, A 72517
Prep Type: Total/NA
Prep Batch: 218236

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Dibromofluoromethane (Surr)	*101*		*68 - 121*
1,2-Dichloroethane-d4 (Surr)	*89*		*52 - 124*
Toluene-d8 (Surr)	*106*		*72 - 127*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Lab Sample ID: MB 180-218278/1-A
Matrix: Solid
Analysis Batch: 218265

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 218278

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0067	0.0022	mg/Kg		07/27/17 11:20	07/27/17 17:17	1
Acenaphthylene	ND		0.0067	0.0023	mg/Kg		07/27/17 11:20	07/27/17 17:17	1
Anthracene	ND		0.0067	0.0025	mg/Kg		07/27/17 11:20	07/27/17 17:17	1
Benzo[a]anthracene	ND		0.0067	0.0026	mg/Kg		07/27/17 11:20	07/27/17 17:17	1
Benzo[a]pyrene	ND		0.0067	0.0028	mg/Kg		07/27/17 11:20	07/27/17 17:17	1
Benzo[b]fluoranthene	ND		0.0067	0.0029	mg/Kg		07/27/17 11:20	07/27/17 17:17	1
Benzo[g,h,i]perylene	ND		0.0067	0.0029	mg/Kg		07/27/17 11:20	07/27/17 17:17	1
Benzo[k]fluoranthene	ND		0.0067	0.0023	mg/Kg		07/27/17 11:20	07/27/17 17:17	1
Chrysene	ND		0.0067	0.0026	mg/Kg		07/27/17 11:20	07/27/17 17:17	1
Dibenz(a,h)anthracene	ND		0.0067	0.0028	mg/Kg		07/27/17 11:20	07/27/17 17:17	1
Dibenzofuran	ND		0.033	0.0027	mg/Kg		07/27/17 11:20	07/27/17 17:17	1
1,4-Dioxane	ND		0.067	0.0050	mg/Kg		07/27/17 11:20	07/27/17 17:17	1
Fluoranthene	ND		0.0067	0.0026	mg/Kg		07/27/17 11:20	07/27/17 17:17	1
Fluorene	ND		0.0067	0.0024	mg/Kg		07/27/17 11:20	07/27/17 17:17	1
Hexachlorobenzene	ND		0.0067	0.0027	mg/Kg		07/27/17 11:20	07/27/17 17:17	1
Indeno[1,2,3-cd]pyrene	ND		0.0067	0.0026	mg/Kg		07/27/17 11:20	07/27/17 17:17	1
2-Methylphenol	ND		0.033	0.0029	mg/Kg		07/27/17 11:20	07/27/17 17:17	1
Methylphenol, 3 & 4	ND		0.033	0.0030	mg/Kg		07/27/17 11:20	07/27/17 17:17	1
Naphthalene	ND		0.0067	0.0024	mg/Kg		07/27/17 11:20	07/27/17 17:17	1
Pentachlorophenol	ND		0.17	0.063	mg/Kg		07/27/17 11:20	07/27/17 17:17	1
Phenanthrene	ND		0.0067	0.0028	mg/Kg		07/27/17 11:20	07/27/17 17:17	1
Phenol	ND		0.033	0.0045	mg/Kg		07/27/17 11:20	07/27/17 17:17	1
Pyrene	ND		0.0067	0.0030	mg/Kg		07/27/17 11:20	07/27/17 17:17	1
Hexachloroethane	ND		33	2.4	ug/Kg		07/27/17 11:20	07/27/17 17:17	1
Nitrobenzene	ND		67	2.5	ug/Kg		07/27/17 11:20	07/27/17 17:17	1
Hexachlorobutadiene	ND		6.7	2.1	ug/Kg		07/27/17 11:20	07/27/17 17:17	1
2,4,5-Trichlorophenol	ND		33	3.2	ug/Kg		07/27/17 11:20	07/27/17 17:17	1
2,4,6-Trichlorophenol	ND		33	2.9	ug/Kg		07/27/17 11:20	07/27/17 17:17	1
2,4-Dinitrotoluene	ND		33	4.4	ug/Kg		07/27/17 11:20	07/27/17 17:17	1
Pyridine	ND		33	3.2	ug/Kg		07/27/17 11:20	07/27/17 17:17	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	*54*		*42 - 100*	*07/27/17 11:20*	*07/27/17 17:17*	*1*
2-Fluorophenol (Surr)	*57*		*21 - 107*	*07/27/17 11:20*	*07/27/17 17:17*	*1*
Nitrobenzene-d5 (Surr)	*50*		*35 - 109*	*07/27/17 11:20*	*07/27/17 17:17*	*1*
Phenol-d5 (Surr)	*53*		*29 - 105*	*07/27/17 11:20*	*07/27/17 17:17*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: MB 180-218278/1-A
Matrix: Solid
Analysis Batch: 218265

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 218278

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14 (Surr)	*54*		*36 - 113*	*07/27/17 11:20*	*07/27/17 17:17*	*1*
2,4,6-Tribromophenol (Surr)	*66*		*20 - 134*	*07/27/17 11:20*	*07/27/17 17:17*	*1*

Lab Sample ID: LCS 180-218278/2-A
Matrix: Solid
Analysis Batch: 218265

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 218278

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	0.667	0.341		mg/Kg		51	39 - 100
Acenaphthylene	0.667	0.351		mg/Kg		53	42 - 100
Anthracene	0.667	0.364		mg/Kg		55	43 - 100
Benzo[a]anthracene	0.667	0.369		mg/Kg		55	43 - 100
Benzo[a]pyrene	0.667	0.374		mg/Kg		56	43 - 100
Benzo[b]fluoranthene	0.667	0.350		mg/Kg		53	40 - 100
Benzo[g,h,i]perylene	0.667	0.422		mg/Kg		63	41 - 102
Benzo[k]fluoranthene	0.667	0.346		mg/Kg		52	44 - 100
Chrysene	0.667	0.390		mg/Kg		58	44 - 100
Dibenz(a,h)anthracene	0.667	0.414		mg/Kg		62	40 - 104
Dibenzofuran	0.667	0.380		mg/Kg		57	42 - 100
1,4-Dioxane	0.667	0.404		mg/Kg		61	19 - 107
Fluoranthene	0.667	0.404		mg/Kg		61	41 - 104
Fluorene	0.667	0.374		mg/Kg		56	41 - 100
Hexachlorobenzene	0.667	0.383		mg/Kg		57	43 - 100
Indeno[1,2,3-cd]pyrene	0.667	0.413		mg/Kg		62	41 - 104
2-Methylphenol	0.667	0.369		mg/Kg		55	38 - 100
Methylphenol, 3 & 4	0.667	0.373		mg/Kg		56	40 - 100
Naphthalene	0.667	0.351		mg/Kg		53	38 - 100
Pentachlorophenol	1.33	0.723		mg/Kg		54	34 - 102
Phenanthrene	0.667	0.355		mg/Kg		53	41 - 100
Phenol	0.667	0.357		mg/Kg		54	36 - 100
Pyrene	0.667	0.352		mg/Kg		53	42 - 100
Hexachloroethane	667	364		ug/Kg		55	35 - 100
Nitrobenzene	667	310		ug/Kg		47	34 - 100
Hexachlorobutadiene	667	425		ug/Kg		64	35 - 100
2,4,5-Trichlorophenol	667	387		ug/Kg		58	42 - 100
2,4,6-Trichlorophenol	667	380		ug/Kg		57	41 - 103
2,4-Dinitrotoluene	667	437		ug/Kg		66	42 - 110
Pyridine	1330	863		ug/Kg		65	25 - 119

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	*48*		*42 - 100*
2-Fluorophenol (Surr)	*58*		*21 - 107*
Nitrobenzene-d5 (Surr)	*45*		*35 - 109*
Phenol-d5 (Surr)	*54*		*29 - 105*
Terphenyl-d14 (Surr)	*54*		*36 - 113*
2,4,6-Tribromophenol (Surr)	*63*		*20 - 134*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: 180-68556-3 MS
Matrix: Solid
Analysis Batch: 218265

Client Sample ID: WB7-8, S5, C 72517
Prep Type: Total/NA
Prep Batch: 218278

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	0.0091	F2	0.885	0.357		mg/Kg	☼	39	39 - 100
Acenaphthylene	0.038	F2 F1	0.885	0.393	F1	mg/Kg	☼	40	42 - 100
Anthracene	0.036	F2 F1	0.885	0.398	F1	mg/Kg	☼	41	43 - 100
Benzo[a]anthracene	0.097	F2 F1	0.885	0.471	F1	mg/Kg	☼	42	43 - 100
Benzo[a]pyrene	0.10	F2	0.885	0.480		mg/Kg	☼	43	43 - 100
Benzo[b]fluoranthene	0.14	F2 F1	0.885	0.475	F1	mg/Kg	☼	38	40 - 100
Benzo[g,h,i]perylene	0.096	F2	0.885	0.561		mg/Kg	☼	52	41 - 102
Benzo[k]fluoranthene	0.051	F2 F1	0.885	0.424	F1	mg/Kg	☼	42	44 - 100
Chrysene	0.11	F2	0.885	0.509		mg/Kg	☼	44	44 - 100
Dibenz(a,h)anthracene	0.024	F2	0.885	0.442		mg/Kg	☼	47	40 - 104
Dibenzofuran	0.0075	J F2	0.885	0.383		mg/Kg	☼	42	42 - 100
1,4-Dioxane	ND	F2	0.885	0.407		mg/Kg	☼	46	19 - 107
Fluoranthene	0.18	F2	0.885	0.563		mg/Kg	☼	43	41 - 104
Fluorene	0.011	F2	0.885	0.391		mg/Kg	☼	43	41 - 100
Hexachlorobenzene	ND	F2	0.885	0.382		mg/Kg	☼	43	43 - 100
Indeno[1,2,3-cd]pyrene	0.082	F2	0.885	0.524		mg/Kg	☼	50	41 - 104
2-Methylphenol	ND	F2	0.885	0.390		mg/Kg	☼	44	38 - 100
Methylphenol, 3 & 4	0.012	J F2	0.885	0.390		mg/Kg	☼	43	40 - 100
Naphthalene	0.015	F2	0.885	0.396		mg/Kg	☼	43	38 - 100
Pentachlorophenol	ND	F2	1.77	0.610		mg/Kg	☼	34	34 - 102
Phenanthrene	0.085	F2 F1	0.885	0.404	F1	mg/Kg	☼	36	41 - 100
Phenol	ND	F2	0.885	0.362		mg/Kg	☼	41	36 - 100
Pyrene	0.15	F2 F1	0.885	0.477	F1	mg/Kg	☼	37	42 - 100
Hexachloroethane	ND	F2	885	401		ug/Kg	☼	45	35 - 100
Nitrobenzene	ND	F2	885	330		ug/Kg	☼	37	34 - 100
Hexachlorobutadiene	ND	F2	885	451		ug/Kg	☼	51	35 - 100
2,4,5-Trichlorophenol	ND	F2	885	385		ug/Kg	☼	43	42 - 100
2,4,6-Trichlorophenol	ND	F2	885	381		ug/Kg	☼	43	41 - 103
2,4-Dinitrotoluene	ND	F2	885	417		ug/Kg	☼	47	42 - 110
Pyridine	ND	F2 F1	1770	399	F1	ug/Kg	☼	23	25 - 119

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl	*45*		*42 - 100*
2-Fluorophenol (Surr)	*54*		*21 - 107*
Nitrobenzene-d5 (Surr)	*43*		*35 - 109*
Phenol-d5 (Surr)	*49*		*29 - 105*
Terphenyl-d14 (Surr)	*44*		*36 - 113*
2,4,6-Tribromophenol (Surr)	*60*		*20 - 134*

Lab Sample ID: 180-68556-3 MSD
Matrix: Solid
Analysis Batch: 218265

Client Sample ID: WB7-8, S5, C 72517
Prep Type: Total/NA
Prep Batch: 218278

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	0.0091	F2	0.885	0.531	F2	mg/Kg	☼	59	39 - 100	39	20
Acenaphthylene	0.038	F2 F1	0.885	0.576	F2	mg/Kg	☼	61	42 - 100	38	20
Anthracene	0.036	F2 F1	0.885	0.613	F2	mg/Kg	☼	65	43 - 100	43	20
Benzo[a]anthracene	0.097	F2 F1	0.885	0.681	F2	mg/Kg	☼	66	43 - 100	36	20

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: 180-68556-3 MSD
Matrix: Solid
Analysis Batch: 218265

Client Sample ID: WB7-8, S5, C 72517
Prep Type: Total/NA
Prep Batch: 218278

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzo[a]pyrene	0.10	F2	0.885	0.695	F2	mg/Kg	☼	67	43 - 100	37	20
Benzo[b]fluoranthene	0.14	F2 F1	0.885	0.664	F2	mg/Kg	☼	59	40 - 100	33	20
Benzo[g,h,i]perylene	0.096	F2	0.885	0.858	F2	mg/Kg	☼	86	41 - 102	42	20
Benzo[k]fluoranthene	0.051	F2 F1	0.885	0.588	F2	mg/Kg	☼	61	44 - 100	33	20
Chrysene	0.11	F2	0.885	0.722	F2	mg/Kg	☼	69	44 - 100	35	20
Dibenz(a,h)anthracene	0.024	F2	0.885	0.728	F2	mg/Kg	☼	79	40 - 104	49	26
Dibenzofuran	0.0075	J F2	0.885	0.570	F2	mg/Kg	☼	64	42 - 100	39	23
1,4-Dioxane	ND	F2	0.885	0.530	F2	mg/Kg	☼	60	19 - 107	26	20
Fluoranthene	0.18	F2	0.885	0.793	F2	mg/Kg	☼	69	41 - 104	34	20
Fluorene	0.011	F2	0.885	0.580	F2	mg/Kg	☼	64	41 - 100	39	21
Hexachlorobenzene	ND	F2	0.885	0.594	F2	mg/Kg	☼	67	43 - 100	43	21
Indeno[1,2,3-cd]pyrene	0.082	F2	0.885	0.802	F2	mg/Kg	☼	81	41 - 104	42	25
2-Methylphenol	ND	F2	0.885	0.553	F2	mg/Kg	☼	62	38 - 100	35	20
Methylphenol, 3 & 4	0.012	J F2	0.885	0.585	F2	mg/Kg	☼	65	40 - 100	40	20
Naphthalene	0.015	F2	0.885	0.531	F2	mg/Kg	☼	58	38 - 100	29	20
Pentachlorophenol	ND	F2	1.77	1.16	F2	mg/Kg	☼	66	34 - 102	62	20
Phenanthrene	0.085	F2 F1	0.885	0.634	F2	mg/Kg	☼	62	41 - 100	44	20
Phenol	ND	F2	0.885	0.507	F2	mg/Kg	☼	57	36 - 100	33	20
Pyrene	0.15	F2 F1	0.885	0.672	F2	mg/Kg	☼	59	42 - 100	34	21
Hexachloroethane	ND	F2	885	544	F2	ug/Kg	☼	61	35 - 100	30	20
Nitrobenzene	ND	F2	885	454	F2	ug/Kg	☼	51	34 - 100	32	20
Hexachlorobutadiene	ND	F2	885	609	F2	ug/Kg	☼	69	35 - 100	30	20
2,4,5-Trichlorophenol	ND	F2	885	605	F2	ug/Kg	☼	68	42 - 100	45	22
2,4,6-Trichlorophenol	ND	F2	885	575	F2	ug/Kg	☼	65	41 - 103	41	25
2,4-Dinitrotoluene	ND	F2	885	640	F2	ug/Kg	☼	72	42 - 110	42	21
Pyridine	ND	F2 F1	1770	901	F2	ug/Kg	☼	51	25 - 119	77	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl	*58*		*42 - 100*
2-Fluorophenol (Surr)	*64*		*21 - 107*
Nitrobenzene-d5 (Surr)	*53*		*35 - 109*
Phenol-d5 (Surr)	*60*		*29 - 105*
Terphenyl-d14 (Surr)	*59*		*36 - 113*
2,4,6-Tribromophenol (Surr)	*80*		*20 - 134*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 180-218279/1-A
Matrix: Solid
Analysis Batch: 218352

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 218279

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.017	0.0088	mg/Kg		07/27/17 11:25	07/28/17 07:45	1
PCB-1221	ND		0.017	0.0086	mg/Kg		07/27/17 11:25	07/28/17 07:45	1
PCB-1232	ND		0.017	0.0066	mg/Kg		07/27/17 11:25	07/28/17 07:45	1
PCB-1242	ND		0.017	0.013	mg/Kg		07/27/17 11:25	07/28/17 07:45	1
PCB-1248	ND		0.017	0.0080	mg/Kg		07/27/17 11:25	07/28/17 07:45	1
PCB-1254	ND		0.017	0.0073	mg/Kg		07/27/17 11:25	07/28/17 07:45	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: MB 180-218279/1-A
Matrix: Solid
Analysis Batch: 218352

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 218279

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1260	ND		0.017	0.011	mg/Kg		07/27/17 11:25	07/28/17 07:45	1
PCB-1262	ND		0.017	0.012	mg/Kg		07/27/17 11:25	07/28/17 07:45	1
PCB-1268	ND		0.017	0.0051	mg/Kg		07/27/17 11:25	07/28/17 07:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*87*		*23 - 150*	*07/27/17 11:25*	*07/28/17 07:45*	*1*
DCB Decachlorobiphenyl (Surr)	*95*		*23 - 150*	*07/27/17 11:25*	*07/28/17 07:45*	*1*
Tetrachloro-m-xylene (Surr)	*83*		*27 - 138*	*07/27/17 11:25*	*07/28/17 07:45*	*1*
Tetrachloro-m-xylene (Surr)	*86*		*27 - 138*	*07/27/17 11:25*	*07/28/17 07:45*	*1*

Lab Sample ID: LCS 180-218279/2-A
Matrix: Solid
Analysis Batch: 218352

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 218279

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			1.33	1.06		mg/Kg		79	52 - 126		
PCB-1260			1.33	1.12		mg/Kg		84	50 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*83*		*23 - 150*
DCB Decachlorobiphenyl (Surr)	*89*		*23 - 150*
Tetrachloro-m-xylene (Surr)	*75*		*27 - 138*
Tetrachloro-m-xylene (Surr)	*79*		*27 - 138*

Lab Sample ID: 180-68556-3 MS
Matrix: Solid
Analysis Batch: 218352

Client Sample ID: WB7-8, S5, C 72517
Prep Type: Total/NA
Prep Batch: 218279

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016	ND		1.77	1.50		mg/Kg	☼	84	52 - 126		
PCB-1260	0.038		1.77	1.43		mg/Kg	☼	79	50 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*87*		*23 - 150*
DCB Decachlorobiphenyl (Surr)	*91*		*23 - 150*
Tetrachloro-m-xylene (Surr)	*80*		*27 - 138*
Tetrachloro-m-xylene (Surr)	*84*		*27 - 138*

Lab Sample ID: 180-68556-3 MSD
Matrix: Solid
Analysis Batch: 218352

Client Sample ID: WB7-8, S5, C 72517
Prep Type: Total/NA
Prep Batch: 218279

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	ND		1.77	1.67		mg/Kg	☼	94	52 - 126	11	20
PCB-1260	0.038		1.77	1.48		mg/Kg	☼	82	50 - 130	3	21

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 180-68556-3 MSD
Matrix: Solid
Analysis Batch: 218352

Client Sample ID: WB7-8, S5, C 72517
Prep Type: Total/NA
Prep Batch: 218279

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*84*		*23 - 150*
DCB Decachlorobiphenyl (Surr)	*90*		*23 - 150*
Tetrachloro-m-xylene (Surr)	*79*		*27 - 138*
Tetrachloro-m-xylene (Surr)	*84*		*27 - 138*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 180-218293/1-A
Matrix: Solid
Analysis Batch: 218421

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 218293

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		1.0	0.44	mg/Kg		07/27/17 12:44	07/28/17 08:35	1
Barium	ND		20	5.4	mg/Kg		07/27/17 12:44	07/28/17 08:35	1
Beryllium	ND		0.40	0.10	mg/Kg		07/27/17 12:44	07/28/17 08:35	1
Cadmium	ND		0.50	0.11	mg/Kg		07/27/17 12:44	07/28/17 08:35	1
Chromium	ND		0.50	0.13	mg/Kg		07/27/17 12:44	07/28/17 08:35	1
Copper	ND		2.5	0.77	mg/Kg		07/27/17 12:44	07/28/17 08:35	1
Lead	ND		1.0	0.33	mg/Kg		07/27/17 12:44	07/28/17 08:35	1
Manganese	ND		1.5	0.41	mg/Kg		07/27/17 12:44	07/28/17 08:35	1
Nickel	ND		4.0	0.90	mg/Kg		07/27/17 12:44	07/28/17 08:35	1
Selenium	ND		1.0	0.40	mg/Kg		07/27/17 12:44	07/28/17 08:35	1
Silver	ND		0.50	0.17	mg/Kg		07/27/17 12:44	07/28/17 08:35	1
Zinc	ND		2.0	1.0	mg/Kg		07/27/17 12:44	07/28/17 08:35	1

Lab Sample ID: LCS 180-218293/2-A
Matrix: Solid
Analysis Batch: 218421

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 218293

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	50.0	51.2		mg/Kg		102	80 - 120
Barium	200	202		mg/Kg		101	80 - 120
Beryllium	5.00	5.06		mg/Kg		101	80 - 120
Cadmium	5.00	5.12		mg/Kg		102	80 - 120
Chromium	20.0	19.2		mg/Kg		96	80 - 120
Copper	25.0	24.7		mg/Kg		99	80 - 120
Lead	50.0	48.3		mg/Kg		97	80 - 120
Manganese	50.0	49.9		mg/Kg		100	80 - 120
Nickel	50.0	50.7		mg/Kg		101	80 - 120
Selenium	50.0	49.9		mg/Kg		100	80 - 120
Silver	5.00	4.95		mg/Kg		99	80 - 120
Zinc	50.0	49.5		mg/Kg		99	80 - 120

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 180-68556-3 MS
Matrix: Solid
Analysis Batch: 218421

Client Sample ID: WB7-8, S5, C 72517
Prep Type: Total/NA
Prep Batch: 218293

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	5.6		69.9	65.9		mg/Kg	☼	86	75 - 125
Barium	90		280	346		mg/Kg	☼	92	75 - 125
Beryllium	0.38	J	6.99	6.31		mg/Kg	☼	85	75 - 125
Cadmium	0.26	J	6.99	6.16		mg/Kg	☼	84	75 - 125
Chromium	9.8		28.0	36.1		mg/Kg	☼	94	75 - 125
Copper	21		35.0	48.8		mg/Kg	☼	79	75 - 125
Lead	22		69.9	85.4		mg/Kg	☼	91	75 - 125
Manganese	420		69.9	561	4	mg/Kg	☼	200	75 - 125
Nickel	18		69.9	86.9		mg/Kg	☼	98	75 - 125
Selenium	ND		69.9	57.0		mg/Kg	☼	82	75 - 125
Silver	ND		6.99	5.71		mg/Kg	☼	82	75 - 125
Zinc	59		69.9	122		mg/Kg	☼	89	75 - 125

Lab Sample ID: 180-68556-3 MSD
Matrix: Solid
Analysis Batch: 218421

Client Sample ID: WB7-8, S5, C 72517
Prep Type: Total/NA
Prep Batch: 218293

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	5.6		69.9	67.2		mg/Kg	☼	88	75 - 125	2	20
Barium	90		280	330		mg/Kg	☼	86	75 - 125	5	20
Beryllium	0.38	J	6.99	6.37		mg/Kg	☼	86	75 - 125	1	20
Cadmium	0.26	J	6.99	6.23		mg/Kg	☼	86	75 - 125	1	20
Chromium	9.8		28.0	34.7		mg/Kg	☼	89	75 - 125	4	20
Copper	21		35.0	47.5		mg/Kg	☼	76	75 - 125	3	20
Lead	22		69.9	85.9		mg/Kg	☼	91	75 - 125	1	20
Manganese	420		69.9	469	4	mg/Kg	☼	68	75 - 125	18	20
Nickel	18		69.9	82.1		mg/Kg	☼	92	75 - 125	6	20
Selenium	ND		69.9	57.6		mg/Kg	☼	82	75 - 125	1	20
Silver	ND		6.99	5.89		mg/Kg	☼	84	75 - 125	3	20
Zinc	59		69.9	117		mg/Kg	☼	83	75 - 125	4	20

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 180-218383/1-A
Matrix: Solid
Analysis Batch: 218639

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 218383

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.033	0.0074	mg/Kg		07/31/17 08:10	07/31/17 11:38	1

Lab Sample ID: LCS 180-218383/2-A
Matrix: Solid
Analysis Batch: 218639

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 218383

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.417	0.461		mg/Kg		111	80 - 120

Method: 7471B - Mercury (CVAA) (Continued)

Lab Sample ID: 180-68556-3 MS
Matrix: Solid
Analysis Batch: 218639

Client Sample ID: WB7-8, S5, C 72517
Prep Type: Total/NA
Prep Batch: 218383

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.036	J F1	0.237	0.319		mg/Kg	☼	119	80 - 120

Lab Sample ID: 180-68556-3 MSD
Matrix: Solid
Analysis Batch: 218639

Client Sample ID: WB7-8, S5, C 72517
Prep Type: Total/NA
Prep Batch: 218383

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.036	J F1	0.208	0.288	F1	mg/Kg	☼	122	80 - 120	10	20

Method: 2540G - SM 2540G

Lab Sample ID: 180-68556-3 DU
Matrix: Solid
Analysis Batch: 218185

Client Sample ID: WB7-8, S5, C 72517
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	24.7		21.1		%		16	20
Percent Solids	75.3		78.9		%		5	20

Lab Sample ID: 180-68556-6 DU
Matrix: Solid
Analysis Batch: 218185

Client Sample ID: WB6-7, S1, C 72517
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	22.8		25.2		%		10	20
Percent Solids	77.2		74.8		%		3	20

Method: 9014 - Cyanide

Lab Sample ID: MB 180-218282/4-A
Matrix: Solid
Analysis Batch: 218335

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 218282

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.50	0.15	mg/Kg		07/27/17 11:19	07/27/17 14:28	1

Lab Sample ID: HLCS 180-218282/2-A
Matrix: Solid
Analysis Batch: 218335

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 218282

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.250	0.236		mg/Kg		94	90 - 110

Lab Sample ID: LCS 180-218282/3-A
Matrix: Solid
Analysis Batch: 218335

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 218282

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	163	117		mg/Kg		72	38 - 162

QC Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68556-1

Lab Sample ID: LLCS 180-218282/1-A
Matrix: Solid
Analysis Batch: 218335

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 218282

Analyte			Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cyanide, Total			0.0500	0.0497		mg/Kg		99	90 - 110		

Lab Sample ID: 180-68556-3 MS
Matrix: Solid
Analysis Batch: 218335

Client Sample ID: WB7-8, S5, C 72517
Prep Type: Total/NA
Prep Batch: 218282

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cyanide, Total	0.38	J	6.51	6.58		mg/Kg	☼	95	75 - 125		

Lab Sample ID: 180-68556-3 MSD
Matrix: Solid
Analysis Batch: 218335

Client Sample ID: WB7-8, S5, C 72517
Prep Type: Total/NA
Prep Batch: 218282

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cyanide, Total	0.38	J	6.64	6.82		mg/Kg	☼	97	75 - 125	4	20

GC/MS VOA

Analysis Batch: 218214

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68556-11	TRIP BLANK	Total/NA	Water	8260C	
MB 180-218214/6	Method Blank	Total/NA	Water	8260C	
LCS 180-218214/3	Lab Control Sample	Total/NA	Water	8260C	

Analysis Batch: 218225

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68556-1	WB7-8, S5, A 72517	Total/NA	Solid	8260C	218236
180-68556-2	WB7-8, S5, B 72517	Total/NA	Solid	8260C	218236
180-68556-4	WB6-7, S1, A 72517	Total/NA	Solid	8260C	218236
180-68556-5	WB6-7, S1, B 72517	Total/NA	Solid	8260C	218236
180-68556-7	WB6-7, S2, A 72517	Total/NA	Solid	8260C	218236
180-68556-8	WB6-7, S2, B 72517	Total/NA	Solid	8260C	218236
180-68556-10	DUP 17 72517	Total/NA	Solid	8260C	218236
MB 180-218225/7	Method Blank	Total/NA	Solid	8260C	
LCS 180-218225/3	Lab Control Sample	Total/NA	Solid	8260C	
180-68556-1 MS	WB7-8, S5, A 72517	Total/NA	Solid	8260C	218236
180-68556-1 MSD	WB7-8, S5, A 72517	Total/NA	Solid	8260C	218236

Prep Batch: 218236

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68556-1	WB7-8, S5, A 72517	Total/NA	Solid	5035	
180-68556-2	WB7-8, S5, B 72517	Total/NA	Solid	5035	
180-68556-4	WB6-7, S1, A 72517	Total/NA	Solid	5035	
180-68556-5	WB6-7, S1, B 72517	Total/NA	Solid	5035	
180-68556-7	WB6-7, S2, A 72517	Total/NA	Solid	5035	
180-68556-8	WB6-7, S2, B 72517	Total/NA	Solid	5035	
180-68556-10	DUP 17 72517	Total/NA	Solid	5035	
180-68556-1 MS	WB7-8, S5, A 72517	Total/NA	Solid	5035	
180-68556-1 MSD	WB7-8, S5, A 72517	Total/NA	Solid	5035	

GC/MS Semi VOA

Analysis Batch: 218265

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68556-3	WB7-8, S5, C 72517	Total/NA	Solid	8270D LL	218278
180-68556-6	WB6-7, S1, C 72517	Total/NA	Solid	8270D LL	218278
180-68556-9	WB6-7, S2, C 72517	Total/NA	Solid	8270D LL	218278
MB 180-218278/1-A	Method Blank	Total/NA	Solid	8270D LL	218278
LCS 180-218278/2-A	Lab Control Sample	Total/NA	Solid	8270D LL	218278
180-68556-3 MS	WB7-8, S5, C 72517	Total/NA	Solid	8270D LL	218278
180-68556-3 MSD	WB7-8, S5, C 72517	Total/NA	Solid	8270D LL	218278

Prep Batch: 218278

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68556-3	WB7-8, S5, C 72517	Total/NA	Solid	3541	
180-68556-6	WB6-7, S1, C 72517	Total/NA	Solid	3541	
180-68556-9	WB6-7, S2, C 72517	Total/NA	Solid	3541	
MB 180-218278/1-A	Method Blank	Total/NA	Solid	3541	
LCS 180-218278/2-A	Lab Control Sample	Total/NA	Solid	3541	
180-68556-3 MS	WB7-8, S5, C 72517	Total/NA	Solid	3541	

GC/MS Semi VOA (Continued)

Prep Batch: 218278 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68556-3 MSD	WB7-8, S5, C 72517	Total/NA	Solid	3541	

GC Semi VOA

Prep Batch: 218279

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68556-3	WB7-8, S5, C 72517	Total/NA	Solid	3541	
180-68556-6	WB6-7, S1, C 72517	Total/NA	Solid	3541	
180-68556-9	WB6-7, S2, C 72517	Total/NA	Solid	3541	
MB 180-218279/1-A	Method Blank	Total/NA	Solid	3541	
LCS 180-218279/2-A	Lab Control Sample	Total/NA	Solid	3541	
180-68556-3 MS	WB7-8, S5, C 72517	Total/NA	Solid	3541	
180-68556-3 MSD	WB7-8, S5, C 72517	Total/NA	Solid	3541	

Cleanup Batch: 218348

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68556-3	WB7-8, S5, C 72517	Total/NA	Solid	3665A	218279
180-68556-6	WB6-7, S1, C 72517	Total/NA	Solid	3665A	218279
180-68556-9	WB6-7, S2, C 72517	Total/NA	Solid	3665A	218279
180-68556-3 MS	WB7-8, S5, C 72517	Total/NA	Solid	3665A	218279
180-68556-3 MSD	WB7-8, S5, C 72517	Total/NA	Solid	3665A	218279

Cleanup Batch: 218349

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68556-3	WB7-8, S5, C 72517	Total/NA	Solid	3660B	218348
180-68556-6	WB6-7, S1, C 72517	Total/NA	Solid	3660B	218348
180-68556-9	WB6-7, S2, C 72517	Total/NA	Solid	3660B	218348
180-68556-3 MS	WB7-8, S5, C 72517	Total/NA	Solid	3660B	218348
180-68556-3 MSD	WB7-8, S5, C 72517	Total/NA	Solid	3660B	218348

Analysis Batch: 218352

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68556-3	WB7-8, S5, C 72517	Total/NA	Solid	8082A	218349
180-68556-6	WB6-7, S1, C 72517	Total/NA	Solid	8082A	218349
180-68556-9	WB6-7, S2, C 72517	Total/NA	Solid	8082A	218349
MB 180-218279/1-A	Method Blank	Total/NA	Solid	8082A	218279
LCS 180-218279/2-A	Lab Control Sample	Total/NA	Solid	8082A	218279
180-68556-3 MS	WB7-8, S5, C 72517	Total/NA	Solid	8082A	218349
180-68556-3 MSD	WB7-8, S5, C 72517	Total/NA	Solid	8082A	218349

Metals

Prep Batch: 218293

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68556-3	WB7-8, S5, C 72517	Total/NA	Solid	3050B	
180-68556-6	WB6-7, S1, C 72517	Total/NA	Solid	3050B	
180-68556-9	WB6-7, S2, C 72517	Total/NA	Solid	3050B	
MB 180-218293/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 180-218293/2-A	Lab Control Sample	Total/NA	Solid	3050B	
180-68556-3 MS	WB7-8, S5, C 72517	Total/NA	Solid	3050B	

Metals (Continued)

Prep Batch: 218293 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68556-3 MSD	WB7-8, S5, C 72517	Total/NA	Solid	3050B	

Prep Batch: 218383

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68556-3	WB7-8, S5, C 72517	Total/NA	Solid	7471B	
180-68556-6	WB6-7, S1, C 72517	Total/NA	Solid	7471B	
180-68556-9	WB6-7, S2, C 72517	Total/NA	Solid	7471B	
MB 180-218383/1-A	Method Blank	Total/NA	Solid	7471B	
LCS 180-218383/2-A	Lab Control Sample	Total/NA	Solid	7471B	
180-68556-3 MS	WB7-8, S5, C 72517	Total/NA	Solid	7471B	
180-68556-3 MSD	WB7-8, S5, C 72517	Total/NA	Solid	7471B	

Analysis Batch: 218421

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68556-3	WB7-8, S5, C 72517	Total/NA	Solid	6010C	218293
180-68556-6	WB6-7, S1, C 72517	Total/NA	Solid	6010C	218293
180-68556-9	WB6-7, S2, C 72517	Total/NA	Solid	6010C	218293
MB 180-218293/1-A	Method Blank	Total/NA	Solid	6010C	218293
LCS 180-218293/2-A	Lab Control Sample	Total/NA	Solid	6010C	218293
180-68556-3 MS	WB7-8, S5, C 72517	Total/NA	Solid	6010C	218293
180-68556-3 MSD	WB7-8, S5, C 72517	Total/NA	Solid	6010C	218293

Analysis Batch: 218639

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68556-3	WB7-8, S5, C 72517	Total/NA	Solid	7471B	218383
180-68556-6	WB6-7, S1, C 72517	Total/NA	Solid	7471B	218383
180-68556-9	WB6-7, S2, C 72517	Total/NA	Solid	7471B	218383
MB 180-218383/1-A	Method Blank	Total/NA	Solid	7471B	218383
LCS 180-218383/2-A	Lab Control Sample	Total/NA	Solid	7471B	218383
180-68556-3 MS	WB7-8, S5, C 72517	Total/NA	Solid	7471B	218383
180-68556-3 MSD	WB7-8, S5, C 72517	Total/NA	Solid	7471B	218383

General Chemistry

Analysis Batch: 218185

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68556-1	WB7-8, S5, A 72517	Total/NA	Solid	2540G	
180-68556-2	WB7-8, S5, B 72517	Total/NA	Solid	2540G	
180-68556-3	WB7-8, S5, C 72517	Total/NA	Solid	2540G	
180-68556-4	WB6-7, S1, A 72517	Total/NA	Solid	2540G	
180-68556-5	WB6-7, S1, B 72517	Total/NA	Solid	2540G	
180-68556-6	WB6-7, S1, C 72517	Total/NA	Solid	2540G	
180-68556-7	WB6-7, S2, A 72517	Total/NA	Solid	2540G	
180-68556-8	WB6-7, S2, B 72517	Total/NA	Solid	2540G	
180-68556-9	WB6-7, S2, C 72517	Total/NA	Solid	2540G	
180-68556-10	DUP 17 72517	Total/NA	Solid	2540G	
180-68556-3 DU	WB7-8, S5, C 72517	Total/NA	Solid	2540G	
180-68556-6 DU	WB6-7, S1, C 72517	Total/NA	Solid	2540G	

General Chemistry (Continued)

Prep Batch: 218282

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68556-3	WB7-8, S5, C 72517	Total/NA	Solid	9010C	
180-68556-6	WB6-7, S1, C 72517	Total/NA	Solid	9010C	
180-68556-9	WB6-7, S2, C 72517	Total/NA	Solid	9010C	
MB 180-218282/4-A	Method Blank	Total/NA	Solid	9010C	
HLCS 180-218282/2-A	Lab Control Sample	Total/NA	Solid	9010C	
LCS 180-218282/3-A	Lab Control Sample	Total/NA	Solid	9010C	
LLCS 180-218282/1-A	Lab Control Sample	Total/NA	Solid	9010C	
180-68556-3 MS	WB7-8, S5, C 72517	Total/NA	Solid	9010C	
180-68556-3 MSD	WB7-8, S5, C 72517	Total/NA	Solid	9010C	

Analysis Batch: 218335

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68556-3	WB7-8, S5, C 72517	Total/NA	Solid	9014	218282
180-68556-6	WB6-7, S1, C 72517	Total/NA	Solid	9014	218282
180-68556-9	WB6-7, S2, C 72517	Total/NA	Solid	9014	218282
MB 180-218282/4-A	Method Blank	Total/NA	Solid	9014	218282
HLCS 180-218282/2-A	Lab Control Sample	Total/NA	Solid	9014	218282
LCS 180-218282/3-A	Lab Control Sample	Total/NA	Solid	9014	218282
LLCS 180-218282/1-A	Lab Control Sample	Total/NA	Solid	9014	218282
180-68556-3 MS	WB7-8, S5, C 72517	Total/NA	Solid	9014	218282
180-68556-3 MSD	WB7-8, S5, C 72517	Total/NA	Solid	9014	218282

TestAmerica Pittsburgh
301 Alpha Drive RIDC Park
Pittsburgh, PA 15238
Phone (412) 963-7058 Fax (412) 963-2468

Chain of Custody Record

180-68556 Chain of Custody

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Ellen Buelow	Lab PM: Dunlap, David A	COC No: 180-38494-8381.1
Client Contact: Ashwin Ranna; Aron Krasnopoler	Phone: 412-552-4758	E-Mail: david.dunlap@test.	Page: Page 1 of 1
Company: Geosyntec Consultants, Inc.			Job #:
Address: Penn Center West One, Suite 402 1 Penn Center West Drive	Due Date Requested:		
City: Pittsburgh	TAT Requested (days): 1 Day		
State, Zip: PA, 15276			
Phone:	PO #: MN0832B		
Email: aranna@geosyntec.com; Akrasnopoler@geosyntec.com	WO #:		
Project Name: Former Sperry Remington Site - North IRM	Project #: 18013464		
Site:	SSOW#:		

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - VOA-Select List	6010C, 7471B, 9014 - Select ICP Metals, Mercury, Cyanide	8082A, 8270D, PCBs, Select BNA	8260C - VOA-Select List (Trip Blanks only)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	A		
WB7-8,SS,A 72517	72517	11:35	G	Solid	N	Y	X				12	Perform MS,MSD 10
WB7-8,SS,B 72517	72517	11:50	G	Solid	N	N	X				4	
WB7-8,SS,C 72517	72517	11:55	C	Solid	N	Y		X	X		6	Perform MS/MSD 11
WB6-7,S1,A 72517	72517	15:10	G	Solid	N	N	X				4	
WB6-7,S1,B 72517	72517	15:20	G	Solid	N	N	X				4	
WB6-7,S1,C 72517	72517	15:25	C	Solid	N	N		X	X		2	
WB6-7,S2,A 72517	72517	16:35	G	Solid	N	N	X				4	The times are correct
WB6-7,S2,B 72517	72517	16:25	G	Solid	N	N	X				4	for WB67,S2 A & B
WB6-7,S2,C 72517	72517	16:40	C	Solid	N	N		X	X		2	
				Solid								
DUP# ECB 17 72517	72517	—	G	Solid	N	N	X				4	

TRIP BLANK 1

RUSH

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Ellen Buelow	18:30 ECB 07/25/17	Geosyntec		7/26/17 0730	TA Pgh
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

7/31/2017

TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
phone 412.963.7058 fax 412.963.2468

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☑ Other:

Client Contact	**Project Manager:** Aron Krasnopoler	**Site Contact:** Ashwin Ranna/Ellen Buelow	**Date:** 072517	COC No:
Geosyntec Consultants	**Tel/Fax:** 401-381-4333	**Lab Contact:** Dave Dunlap	**Carrier:** FedEx	2 of 2 COCs
10211 Wincopin Circle, 4th Floor	**Analysis Turnaround Time**			Sampler:
Columbia, MD 21044	☐ CALENDAR DAYS ☑ WORKING DAYS			**For Lab Use Only:**
410-381-4333 Phone	TAT if different from Below _____			Walk-in Client:
410-381-4499 FAX	☐ 2 weeks			Lab Sampling:
Project Name: Former Sperry Remington Site - North	☐ 1 week			
Site: Elmira	☐ 2 days			Job / SDG No.:
P O # MN0832B	☑ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	PCBs - 8082A	VOCs - 8260C	TCLP Lead	8260C - VOA - TRIP BLANK	Sample Specific Notes:
TRIP BLANK #1	—	—	—	W	2						X	

Preservation Used: 1= Ice, 2= HCl; 3= H_2SO_4; 4=HNO_3; 5=NaOH; 6= Other _____ 1

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd: _____ Corr'd: _____ Therm ID No.: _____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Ellen Buelow	Geosyntec	18:30 072517			7/26/17 0730
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Form No. CA-C-WI-002, Rev. 4.3, dated 12/05/2013

7/31/2017

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 180-68556-1

Login Number: 68556
List Number: 1
Creator: Kovitch, Christina M

List Source: TestAmerica Pittsburgh

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

TestAmerica Job ID: 180-68622-1
Client Project/Site: Former Sperry Remington Site - North IRM

For:
Geosyntec Consultants, Inc.
10211 Wincopin Circle
4'th Floor
Columbia, Maryland 21044

Attn: Mr. Aron Krasnopoler

Authorized for release by:
8/3/2017 4:59:07 PM

David Dunlap, Senior Project Manager
(412)963-2432
david.dunlap@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Job ID: 180-68622-1

Laboratory: TestAmerica Pittsburgh

Narrative

Job Narrative
180-68622-1

Receipt
The samples were received on 7/27/2017 8:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.1° C.

GC/MS VOA
Method(s) 8260C: The continuing calibration verification (CCV) analyzed in batch 180-218353 was below method criteria for the following analyte: vinyl chloride. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte is considered estimated.

Method(s) 8260C: The continuing calibration verification (CCV) analyzed in batch 180-218548 was below method criteria for the following analyte: acetone. A CCV standard at or below the reporting limit (RL) was analyzed with the affected sample and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte is considered estimated.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals
Method(s) 6010C: The low level continuing calibration verification (CCVL 180-218674/88) recovered above the control limit for selenium. As the CCVL was high and the associated samples had selenium either not detected or detected at a concentration below the reporting limit, the results were reported.

Method(s) 7471B: The matrix spike duplicate (MSD) recovery of sample WB6-7, S3, C 072617 (180-68622-3) was above the control limits for mercury. The recoveries of the matrix spike (MS) and laboratory control sample (LCS) were within the control limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.

General Chemistry

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc. TestAmerica Job ID: 180-68622-1
Project/Site: Former Sperry Remington Site - North IRM

Laboratory: TestAmerica Pittsburgh

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	11182	03-31-18

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
2540G		Solid	Percent Moisture
2540G		Solid	Percent Solids
8270D LL	3541	Solid	1,4-Dioxane

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68622-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-68622-1	WB6-7, S3, A 072617	Solid	07/26/17 13:45	07/27/17 08:00
180-68622-2	WB6-7, S3, B 072617	Solid	07/26/17 13:40	07/27/17 08:00
180-68622-3	WB6-7, S3, C 072617	Solid	07/26/17 13:50	07/27/17 08:00
180-68622-4	WB6-7, S4, A 072617	Solid	07/26/17 15:00	07/27/17 08:00
180-68622-5	WB6-7, S4, B 072617	Solid	07/26/17 15:05	07/27/17 08:00
180-68622-6	WB6-7, S4, C 072617	Solid	07/26/17 15:10	07/27/17 08:00
180-68622-9	TRIP BLANK#1	Water	07/26/17 00:00	07/27/17 08:00

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68622-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL PIT
8260C	Volatile Organic Compounds (GC/MS)	SW846	TAL PIT
8270D LL	Semivolatile Organic Compounds by GC/MS - Low Level	SW846	TAL PIT
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL PIT
6010C	Metals (ICP)	SW846	TAL PIT
7471B	Mercury (CVAA)	SW846	TAL PIT
2540G	SM 2540G	SM22	TAL PIT
9014	Cyanide	SW846	TAL PIT

Protocol References:

SM22 = SM22

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68622-1

Client Sample ID: WB6-7, S3, A 072617
Lab Sample ID: 180-68622-1
Date Collected: 07/26/17 13:45
Matrix: Solid
Date Received: 07/27/17 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218418	07/28/17 11:41	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: WB6-7, S3, A 072617
Lab Sample ID: 180-68622-1
Date Collected: 07/26/17 13:45
Matrix: Solid
Date Received: 07/27/17 08:00
Percent Solids: 89.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			7.235 g	5 mL	218356	07/28/17 05:40	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	218353	07/28/17 17:11	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: WB6-7, S3, B 072617
Lab Sample ID: 180-68622-2
Date Collected: 07/26/17 13:40
Matrix: Solid
Date Received: 07/27/17 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218418	07/28/17 11:41	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: WB6-7, S3, B 072617
Lab Sample ID: 180-68622-2
Date Collected: 07/26/17 13:40
Matrix: Solid
Date Received: 07/27/17 08:00
Percent Solids: 82.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.0473 g	5 mL	218356	07/28/17 05:40	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	218353	07/28/17 13:23	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: WB6-7, S3, C 072617
Lab Sample ID: 180-68622-3
Date Collected: 07/26/17 13:50
Matrix: Solid
Date Received: 07/27/17 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218418	07/28/17 11:41	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: WB6-7, S3, C 072617
Lab Sample ID: 180-68622-3
Date Collected: 07/26/17 13:50
Matrix: Solid
Date Received: 07/27/17 08:00
Percent Solids: 84.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.2 g	0.5 mL	218664	08/01/17 03:39	BAP	TAL PIT

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68622-1

Client Sample ID: WB6-7, S3, C 072617

Lab Sample ID: 180-68622-3
Date Collected: 07/26/17 13:50
Matrix: Solid
Date Received: 07/27/17 08:00
Percent Solids: 84.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8270D LL		1	1 mL	1 mL	218731	08/01/17 16:31	VVP	TAL PIT
	Instrument ID: CH732									
Total/NA	Prep	3541			15.1 g	20.0 mL	218666	08/01/17 03:45	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	218720	08/01/17 10:12	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	218721	08/01/17 10:13	JMO	TAL PIT
Total/NA	Analysis	8082A		1			218951	08/03/17 09:11	JMO	TAL PIT
	Instrument ID: CHGC8									
Total/NA	Prep	3050B			0.95 g	100 mL	218412	07/28/17 10:54	CRM	TAL PIT
Total/NA	Analysis	6010C		1			218674	07/31/17 14:11	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.56 g	100 mL	218386	07/31/17 08:10	RJR	TAL PIT
Total/NA	Analysis	7471B		1			218639	07/31/17 13:39	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.01 g	50 mL	218907	08/02/17 13:35	JAS	TAL PIT
Total/NA	Analysis	9014		1			219021	08/03/17 11:14	JAS	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: WB6-7, S4, A 072617

Lab Sample ID: 180-68622-4
Date Collected: 07/26/17 15:00
Matrix: Solid
Date Received: 07/27/17 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218418	07/28/17 11:41	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: WB6-7, S4, A 072617

Lab Sample ID: 180-68622-4
Date Collected: 07/26/17 15:00
Matrix: Solid
Date Received: 07/27/17 08:00
Percent Solids: 87.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			7.1134 g	5 mL	218356	07/28/17 05:40	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	218353	07/28/17 13:45	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: WB6-7, S4, B 072617

Lab Sample ID: 180-68622-5
Date Collected: 07/26/17 15:05
Matrix: Solid
Date Received: 07/27/17 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218418	07/28/17 11:41	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68622-1

Client Sample ID: WB6-7, S4, B 072617

Lab Sample ID: 180-68622-5
Date Collected: 07/26/17 15:05
Matrix: Solid
Date Received: 07/27/17 08:00
Percent Solids: 89.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.834 g	5 mL	218356	07/28/17 05:40	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	218353	07/28/17 14:08	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: WB6-7, S4, C 072617

Lab Sample ID: 180-68622-6
Date Collected: 07/26/17 15:10
Matrix: Solid
Date Received: 07/27/17 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218418	07/28/17 11:41	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: WB6-7, S4, C 072617

Lab Sample ID: 180-68622-6
Date Collected: 07/26/17 15:10
Matrix: Solid
Date Received: 07/27/17 08:00
Percent Solids: 86.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.3 g	0.5 mL	218664	08/01/17 03:39	BAP	TAL PIT
Total/NA	Analysis	8270D LL		1	1 mL	1 mL	218731	08/01/17 17:52	VVP	TAL PIT
	Instrument ID: CH732									
Total/NA	Prep	3541			15.3 g	20.0 mL	218666	08/01/17 03:45	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	218720	08/01/17 10:12	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	218721	08/01/17 10:13	JMO	TAL PIT
Total/NA	Analysis	8082A		1			218951	08/03/17 09:31	JMO	TAL PIT
	Instrument ID: CHGC8									
Total/NA	Prep	3050B			1.07 g	100 mL	218412	07/28/17 10:54	CRM	TAL PIT
Total/NA	Analysis	6010C		1			218674	07/31/17 14:16	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.58 g	100 mL	218386	07/31/17 08:10	RJR	TAL PIT
Total/NA	Analysis	7471B		1			218639	07/31/17 13:45	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.04 g	50 mL	218907	08/02/17 13:35	JAS	TAL PIT
Total/NA	Analysis	9014		1			219021	08/03/17 11:19	JAS	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: TRIP BLANK#1

Lab Sample ID: 180-68622-9
Date Collected: 07/26/17 00:00
Matrix: Water
Date Received: 07/27/17 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	218548	07/31/17 09:12	FBB	TAL PIT
	Instrument ID: CHHP6									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68622-1

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Analyst References:

Lab: TAL PIT

Batch Type: Cleanup

JMO = John Oravec

Batch Type: Prep

BAP = Brian Pino

CRM = Caitlin McEvoy

JAS = Joshua Schmidt

KLG = Kathy Gordon

RJR = Ron Rosenbaum

Batch Type: Analysis

FBB = Frank Bungard

JAS = Joshua Schmidt

JMO = John Oravec

JTL = Justin Landry

KLG = Kathy Gordon

RJG = Rob Good

RJR = Ron Rosenbaum

VVP = Vincent Piccolino

Client Sample ID: WB6-7, S3, A 072617

Lab Sample ID: 180-68622-1
Date Collected: 07/26/17 13:45
Matrix: Solid
Date Received: 07/27/17 08:00
Percent Solids: 89.5

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.015	0.0024	mg/Kg	☼	07/28/17 05:40	07/28/17 17:11	1
Benzene	ND		0.0039	0.0015	mg/Kg	☼	07/28/17 05:40	07/28/17 17:11	1
2-Butanone (MEK)	ND		0.0039	0.0022	mg/Kg	☼	07/28/17 05:40	07/28/17 17:11	1
Carbon tetrachloride	ND		0.0039	0.0026	mg/Kg	☼	07/28/17 05:40	07/28/17 17:11	1
Chlorobenzene	ND		0.0039	0.0012	mg/Kg	☼	07/28/17 05:40	07/28/17 17:11	1
Chloroform	ND		0.0039	0.0016	mg/Kg	☼	07/28/17 05:40	07/28/17 17:11	1
cis-1,2-Dichloroethene	ND		0.0039	0.0012	mg/Kg	☼	07/28/17 05:40	07/28/17 17:11	1
1,2-Dichlorobenzene	ND		0.0039	0.0031	mg/Kg	☼	07/28/17 05:40	07/28/17 17:11	1
1,3-Dichlorobenzene	ND		0.0039	0.0012	mg/Kg	☼	07/28/17 05:40	07/28/17 17:11	1
1,4-Dichlorobenzene	ND		0.0039	0.00079	mg/Kg	☼	07/28/17 05:40	07/28/17 17:11	1
1,1-Dichloroethane	ND		0.0039	0.0014	mg/Kg	☼	07/28/17 05:40	07/28/17 17:11	1
1,2-Dichloroethane	ND		0.0039	0.0011	mg/Kg	☼	07/28/17 05:40	07/28/17 17:11	1
1,1-Dichloroethene	ND		0.0039	0.0022	mg/Kg	☼	07/28/17 05:40	07/28/17 17:11	1
Ethylbenzene	ND		0.0039	0.0017	mg/Kg	☼	07/28/17 05:40	07/28/17 17:11	1
Methylene Chloride	ND		0.0039	0.0018	mg/Kg	☼	07/28/17 05:40	07/28/17 17:11	1
Methyl tert-butyl ether	ND		0.0039	0.0028	mg/Kg	☼	07/28/17 05:40	07/28/17 17:11	1
n-Butylbenzene	ND		0.0039	0.0029	mg/Kg	☼	07/28/17 05:40	07/28/17 17:11	1
N-Propylbenzene	ND		0.0039	0.0016	mg/Kg	☼	07/28/17 05:40	07/28/17 17:11	1
sec-Butylbenzene	ND		0.0039	0.0019	mg/Kg	☼	07/28/17 05:40	07/28/17 17:11	1
tert-Butylbenzene	ND		0.0039	0.0014	mg/Kg	☼	07/28/17 05:40	07/28/17 17:11	1
Tetrachloroethene	ND		0.0039	0.0015	mg/Kg	☼	07/28/17 05:40	07/28/17 17:11	1
Toluene	ND		0.0039	0.0013	mg/Kg	☼	07/28/17 05:40	07/28/17 17:11	1
trans-1,2-Dichloroethene	ND		0.0039	0.0020	mg/Kg	☼	07/28/17 05:40	07/28/17 17:11	1
1,1,1-Trichloroethane	ND		0.0039	0.0019	mg/Kg	☼	07/28/17 05:40	07/28/17 17:11	1
Trichloroethene	ND		0.0039	0.0012	mg/Kg	☼	07/28/17 05:40	07/28/17 17:11	1
1,2,4-Trimethylbenzene	ND		0.0039	0.0010	mg/Kg	☼	07/28/17 05:40	07/28/17 17:11	1
1,3,5-Trimethylbenzene	ND		0.0039	0.0013	mg/Kg	☼	07/28/17 05:40	07/28/17 17:11	1
Vinyl chloride	ND		0.0039	0.0028	mg/Kg	☼	07/28/17 05:40	07/28/17 17:11	1
Xylenes, Total	ND		0.0077	0.0033	mg/Kg	☼	07/28/17 05:40	07/28/17 17:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*63 - 120*	*07/28/17 05:40*	*07/28/17 17:11*	*1*
Dibromofluoromethane (Surr)	*103*		*68 - 121*	*07/28/17 05:40*	*07/28/17 17:11*	*1*
1,2-Dichloroethane-d4 (Surr)	*108*		*52 - 124*	*07/28/17 05:40*	*07/28/17 17:11*	*1*
Toluene-d8 (Surr)	*113*		*72 - 127*	*07/28/17 05:40*	*07/28/17 17:11*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**10.5**		0.1	0.1	%			07/28/17 11:41	1
Percent Solids	**89.5**		0.1	0.1	%			07/28/17 11:41	1

Client Sample ID: WB6-7, S3, B 072617

Lab Sample ID: 180-68622-2
Date Collected: 07/26/17 13:40
Matrix: Solid
Date Received: 07/27/17 08:00
Percent Solids: 82.4

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.020	0.0032	mg/Kg	☼	07/28/17 05:40	07/28/17 13:23	1
Benzene	ND		0.0050	0.0020	mg/Kg	☼	07/28/17 05:40	07/28/17 13:23	1
2-Butanone (MEK)	ND		0.0050	0.0029	mg/Kg	☼	07/28/17 05:40	07/28/17 13:23	1

Client Sample ID: WB6-7, S3, B 072617 — Lab Sample ID: 180-68622-2

Date Collected: 07/26/17 13:40 — **Matrix: Solid**
Date Received: 07/27/17 08:00 — **Percent Solids: 82.4**

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	ND		0.0050	0.0033	mg/Kg	☼	07/28/17 05:40	07/28/17 13:23	1
Chlorobenzene	ND		0.0050	0.0016	mg/Kg	☼	07/28/17 05:40	07/28/17 13:23	1
Chloroform	ND		0.0050	0.0021	mg/Kg	☼	07/28/17 05:40	07/28/17 13:23	1
cis-1,2-Dichloroethene	ND		0.0050	0.0016	mg/Kg	☼	07/28/17 05:40	07/28/17 13:23	1
1,2-Dichlorobenzene	ND		0.0050	0.0040	mg/Kg	☼	07/28/17 05:40	07/28/17 13:23	1
1,3-Dichlorobenzene	ND		0.0050	0.0016	mg/Kg	☼	07/28/17 05:40	07/28/17 13:23	1
1,4-Dichlorobenzene	ND		0.0050	0.0010	mg/Kg	☼	07/28/17 05:40	07/28/17 13:23	1
1,1-Dichloroethane	ND		0.0050	0.0018	mg/Kg	☼	07/28/17 05:40	07/28/17 13:23	1
1,2-Dichloroethane	ND		0.0050	0.0015	mg/Kg	☼	07/28/17 05:40	07/28/17 13:23	1
1,1-Dichloroethene	ND		0.0050	0.0029	mg/Kg	☼	07/28/17 05:40	07/28/17 13:23	1
Ethylbenzene	ND		0.0050	0.0022	mg/Kg	☼	07/28/17 05:40	07/28/17 13:23	1
Methylene Chloride	ND		0.0050	0.0024	mg/Kg	☼	07/28/17 05:40	07/28/17 13:23	1
Methyl tert-butyl ether	ND		0.0050	0.0037	mg/Kg	☼	07/28/17 05:40	07/28/17 13:23	1
n-Butylbenzene	ND		0.0050	0.0038	mg/Kg	☼	07/28/17 05:40	07/28/17 13:23	1
N-Propylbenzene	ND		0.0050	0.0021	mg/Kg	☼	07/28/17 05:40	07/28/17 13:23	1
sec-Butylbenzene	ND		0.0050	0.0024	mg/Kg	☼	07/28/17 05:40	07/28/17 13:23	1
tert-Butylbenzene	ND		0.0050	0.0018	mg/Kg	☼	07/28/17 05:40	07/28/17 13:23	1
Tetrachloroethene	ND		0.0050	0.0020	mg/Kg	☼	07/28/17 05:40	07/28/17 13:23	1
Toluene	ND		0.0050	0.0017	mg/Kg	☼	07/28/17 05:40	07/28/17 13:23	1
trans-1,2-Dichloroethene	ND		0.0050	0.0025	mg/Kg	☼	07/28/17 05:40	07/28/17 13:23	1
1,1,1-Trichloroethane	ND		0.0050	0.0025	mg/Kg	☼	07/28/17 05:40	07/28/17 13:23	1
Trichloroethene	ND		0.0050	0.0015	mg/Kg	☼	07/28/17 05:40	07/28/17 13:23	1
1,2,4-Trimethylbenzene	ND		0.0050	0.0014	mg/Kg	☼	07/28/17 05:40	07/28/17 13:23	1
1,3,5-Trimethylbenzene	ND		0.0050	0.0017	mg/Kg	☼	07/28/17 05:40	07/28/17 13:23	1
Vinyl chloride	ND		0.0050	0.0037	mg/Kg	☼	07/28/17 05:40	07/28/17 13:23	1
Xylenes, Total	ND		0.010	0.0043	mg/Kg	☼	07/28/17 05:40	07/28/17 13:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*63 - 120*	*07/28/17 05:40*	*07/28/17 13:23*	*1*
Dibromofluoromethane (Surr)	*108*		*68 - 121*	*07/28/17 05:40*	*07/28/17 13:23*	*1*
1,2-Dichloroethane-d4 (Surr)	*109*		*52 - 124*	*07/28/17 05:40*	*07/28/17 13:23*	*1*
Toluene-d8 (Surr)	*116*		*72 - 127*	*07/28/17 05:40*	*07/28/17 13:23*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**17.6**		0.1	0.1	%			07/28/17 11:41	1
Percent Solids	**82.4**		0.1	0.1	%			07/28/17 11:41	1

Client Sample ID: WB6-7, S3, C 072617 — Lab Sample ID: 180-68622-3

Date Collected: 07/26/17 13:50 — **Matrix: Solid**
Date Received: 07/27/17 08:00 — **Percent Solids: 84.9**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.027**		0.0078	0.0026	mg/Kg	☼	08/01/17 03:39	08/01/17 16:31	1
Acenaphthylene	**0.040**		0.0078	0.0026	mg/Kg	☼	08/01/17 03:39	08/01/17 16:31	1
Anthracene	**0.082**		0.0078	0.0029	mg/Kg	☼	08/01/17 03:39	08/01/17 16:31	1
Benzo[a]anthracene	**0.27**		0.0078	0.0031	mg/Kg	☼	08/01/17 03:39	08/01/17 16:31	1
Benzo[a]pyrene	**0.27**		0.0078	0.0032	mg/Kg	☼	08/01/17 03:39	08/01/17 16:31	1
Benzo[b]fluoranthene	**0.34**		0.0078	0.0034	mg/Kg	☼	08/01/17 03:39	08/01/17 16:31	1

Client Sample ID: WB6-7, S3, C 072617 **Lab Sample ID: 180-68622-3**
Date Collected: 07/26/17 13:50 **Matrix: Solid**
Date Received: 07/27/17 08:00 **Percent Solids: 84.9**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	**0.26**		0.0078	0.0034	mg/Kg	☼	08/01/17 03:39	08/01/17 16:31	1
Benzo[k]fluoranthene	**0.14**		0.0078	0.0027	mg/Kg	☼	08/01/17 03:39	08/01/17 16:31	1
Chrysene	**0.31**		0.0078	0.0030	mg/Kg	☼	08/01/17 03:39	08/01/17 16:31	1
Dibenz(a,h)anthracene	**0.057**		0.0078	0.0032	mg/Kg	☼	08/01/17 03:39	08/01/17 16:31	1
Dibenzofuran	**0.020**	**J**	0.038	0.0031	mg/Kg	☼	08/01/17 03:39	08/01/17 16:31	1
1,4-Dioxane	ND		0.077	0.0058	mg/Kg	☼	08/01/17 03:39	08/01/17 16:31	1
Fluoranthene	**0.50**		0.0078	0.0031	mg/Kg	☼	08/01/17 03:39	08/01/17 16:31	1
Fluorene	**0.029**		0.0078	0.0028	mg/Kg	☼	08/01/17 03:39	08/01/17 16:31	1
Hexachlorobenzene	ND		0.0078	0.0031	mg/Kg	☼	08/01/17 03:39	08/01/17 16:31	1
Indeno[1,2,3-cd]pyrene	**0.22**		0.0078	0.0030	mg/Kg	☼	08/01/17 03:39	08/01/17 16:31	1
2-Methylphenol	ND		0.038	0.0034	mg/Kg	☼	08/01/17 03:39	08/01/17 16:31	1
Methylphenol, 3 & 4	ND		0.038	0.0034	mg/Kg	☼	08/01/17 03:39	08/01/17 16:31	1
Naphthalene	**0.023**		0.0078	0.0028	mg/Kg	☼	08/01/17 03:39	08/01/17 16:31	1
Pentachlorophenol	ND		0.20	0.073	mg/Kg	☼	08/01/17 03:39	08/01/17 16:31	1
Phenanthrene	**0.23**		0.0078	0.0032	mg/Kg	☼	08/01/17 03:39	08/01/17 16:31	1
Phenol	ND		0.038	0.0052	mg/Kg	☼	08/01/17 03:39	08/01/17 16:31	1
Pyrene	**0.40**		0.0078	0.0034	mg/Kg	☼	08/01/17 03:39	08/01/17 16:31	1
Hexachloroethane	ND		38	2.8	ug/Kg	☼	08/01/17 03:39	08/01/17 16:31	1
Nitrobenzene	ND		77	3.0	ug/Kg	☼	08/01/17 03:39	08/01/17 16:31	1
Hexachlorobutadiene	ND		7.8	2.4	ug/Kg	☼	08/01/17 03:39	08/01/17 16:31	1
2,4,5-Trichlorophenol	ND		38	3.7	ug/Kg	☼	08/01/17 03:39	08/01/17 16:31	1
2,4,6-Trichlorophenol	ND		38	3.4	ug/Kg	☼	08/01/17 03:39	08/01/17 16:31	1
2,4-Dinitrotoluene	ND		38	5.1	ug/Kg	☼	08/01/17 03:39	08/01/17 16:31	1
Pyridine	ND		38	3.7	ug/Kg	☼	08/01/17 03:39	08/01/17 16:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*66*		*42 - 100*	*08/01/17 03:39*	*08/01/17 16:31*	*1*
2-Fluorophenol (Surr)	*66*		*21 - 107*	*08/01/17 03:39*	*08/01/17 16:31*	*1*
Nitrobenzene-d5 (Surr)	*61*		*35 - 109*	*08/01/17 03:39*	*08/01/17 16:31*	*1*
Phenol-d5 (Surr)	*62*		*29 - 105*	*08/01/17 03:39*	*08/01/17 16:31*	*1*
Terphenyl-d14 (Surr)	*64*		*36 - 113*	*08/01/17 03:39*	*08/01/17 16:31*	*1*
2,4,6-Tribromophenol (Surr)	*81*		*20 - 134*	*08/01/17 03:39*	*08/01/17 16:31*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.019	0.010	mg/Kg	☼	08/01/17 03:45	08/03/17 09:11	1
PCB-1221	ND		0.019	0.010	mg/Kg	☼	08/01/17 03:45	08/03/17 09:11	1
PCB-1232	ND		0.019	0.0077	mg/Kg	☼	08/01/17 03:45	08/03/17 09:11	1
PCB-1242	ND		0.019	0.015	mg/Kg	☼	08/01/17 03:45	08/03/17 09:11	1
PCB-1248	**0.40**		0.019	0.0093	mg/Kg	☼	08/01/17 03:45	08/03/17 09:11	1
PCB-1254	**0.19**		0.019	0.0085	mg/Kg	☼	08/01/17 03:45	08/03/17 09:11	1
PCB-1260	**0.041**		0.019	0.013	mg/Kg	☼	08/01/17 03:45	08/03/17 09:11	1
PCB-1262	ND		0.019	0.014	mg/Kg	☼	08/01/17 03:45	08/03/17 09:11	1
PCB-1268	ND		0.019	0.0059	mg/Kg	☼	08/01/17 03:45	08/03/17 09:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*74*		*23 - 150*	*08/01/17 03:45*	*08/03/17 09:11*	*1*
DCB Decachlorobiphenyl (Surr)	*74*		*23 - 150*	*08/01/17 03:45*	*08/03/17 09:11*	*1*
Tetrachloro-m-xylene (Surr)	*74*		*27 - 138*	*08/01/17 03:45*	*08/03/17 09:11*	*1*
Tetrachloro-m-xylene (Surr)	*64*		*27 - 138*	*08/01/17 03:45*	*08/03/17 09:11*	*1*

Client Sample ID: WB6-7, S3, C 072617 — Lab Sample ID: 180-68622-3

Date Collected: 07/26/17 13:50 — **Matrix: Solid**
Date Received: 07/27/17 08:00 — **Percent Solids: 84.9**

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.8		1.2	0.55	mg/Kg	☼	07/28/17 10:54	07/31/17 14:11	1
Barium	100		25	6.7	mg/Kg	☼	07/28/17 10:54	07/31/17 14:11	1
Beryllium	0.34	J	0.50	0.13	mg/Kg	☼	07/28/17 10:54	07/31/17 14:11	1
Cadmium	0.20	J	0.62	0.14	mg/Kg	☼	07/28/17 10:54	07/31/17 14:11	1
Chromium	11		0.62	0.16	mg/Kg	☼	07/28/17 10:54	07/31/17 14:11	1
Copper	49		3.1	0.95	mg/Kg	☼	07/28/17 10:54	07/31/17 14:11	1
Lead	64		1.2	0.41	mg/Kg	☼	07/28/17 10:54	07/31/17 14:11	1
Manganese	390		1.9	0.50	mg/Kg	☼	07/28/17 10:54	07/31/17 14:11	1
Nickel	24		5.0	1.1	mg/Kg	☼	07/28/17 10:54	07/31/17 14:11	1
Selenium	ND	^	1.2	0.49	mg/Kg	☼	07/28/17 10:54	07/31/17 14:11	1
Silver	ND		0.62	0.21	mg/Kg	☼	07/28/17 10:54	07/31/17 14:11	1
Zinc	68		2.5	1.3	mg/Kg	☼	07/28/17 10:54	07/31/17 14:11	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.035	J F1	0.042	0.0093	mg/Kg	☼	07/31/17 08:10	07/31/17 13:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	15.1		0.1	0.1	%			07/28/17 11:41	1
Percent Solids	84.9		0.1	0.1	%			07/28/17 11:41	1
Cyanide, Total	0.37	J	0.58	0.18	mg/Kg	☼	08/02/17 13:35	08/03/17 11:14	1

Client Sample ID: WB6-7, S4, A 072617 — Lab Sample ID: 180-68622-4

Date Collected: 07/26/17 15:00 — **Matrix: Solid**
Date Received: 07/27/17 08:00 — **Percent Solids: 87.4**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0026	J	0.016	0.0025	mg/Kg	☼	07/28/17 05:40	07/28/17 13:45	1
Benzene	ND		0.0040	0.0016	mg/Kg	☼	07/28/17 05:40	07/28/17 13:45	1
2-Butanone (MEK)	ND		0.0040	0.0023	mg/Kg	☼	07/28/17 05:40	07/28/17 13:45	1
Carbon tetrachloride	ND		0.0040	0.0027	mg/Kg	☼	07/28/17 05:40	07/28/17 13:45	1
Chlorobenzene	ND		0.0040	0.0013	mg/Kg	☼	07/28/17 05:40	07/28/17 13:45	1
Chloroform	ND		0.0040	0.0017	mg/Kg	☼	07/28/17 05:40	07/28/17 13:45	1
cis-1,2-Dichloroethene	ND		0.0040	0.0013	mg/Kg	☼	07/28/17 05:40	07/28/17 13:45	1
1,2-Dichlorobenzene	ND		0.0040	0.0032	mg/Kg	☼	07/28/17 05:40	07/28/17 13:45	1
1,3-Dichlorobenzene	ND		0.0040	0.0013	mg/Kg	☼	07/28/17 05:40	07/28/17 13:45	1
1,4-Dichlorobenzene	ND		0.0040	0.00082	mg/Kg	☼	07/28/17 05:40	07/28/17 13:45	1
1,1-Dichloroethane	ND		0.0040	0.0015	mg/Kg	☼	07/28/17 05:40	07/28/17 13:45	1
1,2-Dichloroethane	ND		0.0040	0.0012	mg/Kg	☼	07/28/17 05:40	07/28/17 13:45	1
1,1-Dichloroethene	ND		0.0040	0.0023	mg/Kg	☼	07/28/17 05:40	07/28/17 13:45	1
Ethylbenzene	ND		0.0040	0.0017	mg/Kg	☼	07/28/17 05:40	07/28/17 13:45	1
Methylene Chloride	ND		0.0040	0.0019	mg/Kg	☼	07/28/17 05:40	07/28/17 13:45	1
Methyl tert-butyl ether	ND		0.0040	0.0030	mg/Kg	☼	07/28/17 05:40	07/28/17 13:45	1
n-Butylbenzene	ND		0.0040	0.0030	mg/Kg	☼	07/28/17 05:40	07/28/17 13:45	1
N-Propylbenzene	ND		0.0040	0.0017	mg/Kg	☼	07/28/17 05:40	07/28/17 13:45	1
sec-Butylbenzene	ND		0.0040	0.0020	mg/Kg	☼	07/28/17 05:40	07/28/17 13:45	1
tert-Butylbenzene	ND		0.0040	0.0015	mg/Kg	☼	07/28/17 05:40	07/28/17 13:45	1
Tetrachloroethene	ND		0.0040	0.0016	mg/Kg	☼	07/28/17 05:40	07/28/17 13:45	1

Client Sample ID: WB6-7, S4, A 072617 — Lab Sample ID: 180-68622-4

Date Collected: 07/26/17 15:00 — **Matrix: Solid**
Date Received: 07/27/17 08:00 — **Percent Solids: 87.4**

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		0.0040	0.0014	mg/Kg	☼	07/28/17 05:40	07/28/17 13:45	1
trans-1,2-Dichloroethene	ND		0.0040	0.0020	mg/Kg	☼	07/28/17 05:40	07/28/17 13:45	1
1,1,1-Trichloroethane	ND		0.0040	0.0020	mg/Kg	☼	07/28/17 05:40	07/28/17 13:45	1
Trichloroethene	**0.0014**	**J**	0.0040	0.0012	mg/Kg	☼	07/28/17 05:40	07/28/17 13:45	1
1,2,4-Trimethylbenzene	ND		0.0040	0.0011	mg/Kg	☼	07/28/17 05:40	07/28/17 13:45	1
1,3,5-Trimethylbenzene	ND		0.0040	0.0014	mg/Kg	☼	07/28/17 05:40	07/28/17 13:45	1
Vinyl chloride	ND		0.0040	0.0030	mg/Kg	☼	07/28/17 05:40	07/28/17 13:45	1
Xylenes, Total	ND		0.0080	0.0035	mg/Kg	☼	07/28/17 05:40	07/28/17 13:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*63 - 120*	*07/28/17 05:40*	*07/28/17 13:45*	*1*
Dibromofluoromethane (Surr)	*104*		*68 - 121*	*07/28/17 05:40*	*07/28/17 13:45*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*52 - 124*	*07/28/17 05:40*	*07/28/17 13:45*	*1*
Toluene-d8 (Surr)	*113*		*72 - 127*	*07/28/17 05:40*	*07/28/17 13:45*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**12.6**		0.1	0.1	%			07/28/17 11:41	1
Percent Solids	**87.4**		0.1	0.1	%			07/28/17 11:41	1

Client Sample ID: WB6-7, S4, B 072617 — Lab Sample ID: 180-68622-5

Date Collected: 07/26/17 15:05 — **Matrix: Solid**
Date Received: 07/27/17 08:00 — **Percent Solids: 89.4**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**0.0028**	**J**	0.016	0.0026	mg/Kg	☼	07/28/17 05:40	07/28/17 14:08	1
Benzene	ND		0.0041	0.0016	mg/Kg	☼	07/28/17 05:40	07/28/17 14:08	1
2-Butanone (MEK)	ND		0.0041	0.0024	mg/Kg	☼	07/28/17 05:40	07/28/17 14:08	1
Carbon tetrachloride	ND		0.0041	0.0027	mg/Kg	☼	07/28/17 05:40	07/28/17 14:08	1
Chlorobenzene	ND		0.0041	0.0013	mg/Kg	☼	07/28/17 05:40	07/28/17 14:08	1
Chloroform	ND		0.0041	0.0017	mg/Kg	☼	07/28/17 05:40	07/28/17 14:08	1
cis-1,2-Dichloroethene	ND		0.0041	0.0013	mg/Kg	☼	07/28/17 05:40	07/28/17 14:08	1
1,2-Dichlorobenzene	ND		0.0041	0.0033	mg/Kg	☼	07/28/17 05:40	07/28/17 14:08	1
1,3-Dichlorobenzene	ND		0.0041	0.0013	mg/Kg	☼	07/28/17 05:40	07/28/17 14:08	1
1,4-Dichlorobenzene	ND		0.0041	0.00083	mg/Kg	☼	07/28/17 05:40	07/28/17 14:08	1
1,1-Dichloroethane	ND		0.0041	0.0015	mg/Kg	☼	07/28/17 05:40	07/28/17 14:08	1
1,2-Dichloroethane	ND		0.0041	0.0012	mg/Kg	☼	07/28/17 05:40	07/28/17 14:08	1
1,1-Dichloroethene	ND		0.0041	0.0023	mg/Kg	☼	07/28/17 05:40	07/28/17 14:08	1
Ethylbenzene	ND		0.0041	0.0018	mg/Kg	☼	07/28/17 05:40	07/28/17 14:08	1
Methylene Chloride	ND		0.0041	0.0019	mg/Kg	☼	07/28/17 05:40	07/28/17 14:08	1
Methyl tert-butyl ether	ND		0.0041	0.0030	mg/Kg	☼	07/28/17 05:40	07/28/17 14:08	1
n-Butylbenzene	ND		0.0041	0.0031	mg/Kg	☼	07/28/17 05:40	07/28/17 14:08	1
N-Propylbenzene	ND		0.0041	0.0017	mg/Kg	☼	07/28/17 05:40	07/28/17 14:08	1
sec-Butylbenzene	ND		0.0041	0.0020	mg/Kg	☼	07/28/17 05:40	07/28/17 14:08	1
tert-Butylbenzene	ND		0.0041	0.0015	mg/Kg	☼	07/28/17 05:40	07/28/17 14:08	1
Tetrachloroethene	ND		0.0041	0.0016	mg/Kg	☼	07/28/17 05:40	07/28/17 14:08	1
Toluene	ND		0.0041	0.0014	mg/Kg	☼	07/28/17 05:40	07/28/17 14:08	1
trans-1,2-Dichloroethene	ND		0.0041	0.0021	mg/Kg	☼	07/28/17 05:40	07/28/17 14:08	1
1,1,1-Trichloroethane	ND		0.0041	0.0021	mg/Kg	☼	07/28/17 05:40	07/28/17 14:08	1

Client Sample ID: WB6-7, S4, B 072617 — Lab Sample ID: 180-68622-5

Date Collected: 07/26/17 15:05 — **Matrix: Solid**
Date Received: 07/27/17 08:00 — **Percent Solids: 89.4**

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	ND		0.0041	0.0012	mg/Kg	☼	07/28/17 05:40	07/28/17 14:08	1
1,2,4-Trimethylbenzene	ND		0.0041	0.0011	mg/Kg	☼	07/28/17 05:40	07/28/17 14:08	1
1,3,5-Trimethylbenzene	ND		0.0041	0.0014	mg/Kg	☼	07/28/17 05:40	07/28/17 14:08	1
Vinyl chloride	ND		0.0041	0.0030	mg/Kg	☼	07/28/17 05:40	07/28/17 14:08	1
Xylenes, Total	ND		0.0082	0.0035	mg/Kg	☼	07/28/17 05:40	07/28/17 14:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*63 - 120*	*07/28/17 05:40*	*07/28/17 14:08*	*1*
Dibromofluoromethane (Surr)	*103*		*68 - 121*	*07/28/17 05:40*	*07/28/17 14:08*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*52 - 124*	*07/28/17 05:40*	*07/28/17 14:08*	*1*
Toluene-d8 (Surr)	*113*		*72 - 127*	*07/28/17 05:40*	*07/28/17 14:08*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**10.6**		0.1	0.1	%			07/28/17 11:41	1
Percent Solids	**89.4**		0.1	0.1	%			07/28/17 11:41	1

Client Sample ID: WB6-7, S4, C 072617 — Lab Sample ID: 180-68622-6

Date Collected: 07/26/17 15:10 — **Matrix: Solid**
Date Received: 07/27/17 08:00 — **Percent Solids: 86.5**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.026**		0.0076	0.0025	mg/Kg	☼	08/01/17 03:39	08/01/17 17:52	1
Acenaphthylene	**0.032**		0.0076	0.0026	mg/Kg	☼	08/01/17 03:39	08/01/17 17:52	1
Anthracene	**0.10**		0.0076	0.0028	mg/Kg	☼	08/01/17 03:39	08/01/17 17:52	1
Benzo[a]anthracene	**0.22**		0.0076	0.0030	mg/Kg	☼	08/01/17 03:39	08/01/17 17:52	1
Benzo[a]pyrene	**0.20**		0.0076	0.0031	mg/Kg	☼	08/01/17 03:39	08/01/17 17:52	1
Benzo[b]fluoranthene	**0.23**		0.0076	0.0033	mg/Kg	☼	08/01/17 03:39	08/01/17 17:52	1
Benzo[g,h,i]perylene	**0.22**		0.0076	0.0033	mg/Kg	☼	08/01/17 03:39	08/01/17 17:52	1
Benzo[k]fluoranthene	**0.12**		0.0076	0.0026	mg/Kg	☼	08/01/17 03:39	08/01/17 17:52	1
Chrysene	**0.24**		0.0076	0.0030	mg/Kg	☼	08/01/17 03:39	08/01/17 17:52	1
Dibenz(a,h)anthracene	**0.050**		0.0076	0.0031	mg/Kg	☼	08/01/17 03:39	08/01/17 17:52	1
Dibenzofuran	**0.048**		0.037	0.0030	mg/Kg	☼	08/01/17 03:39	08/01/17 17:52	1
1,4-Dioxane	ND		0.076	0.0057	mg/Kg	☼	08/01/17 03:39	08/01/17 17:52	1
Fluoranthene	**0.48**		0.0076	0.0030	mg/Kg	☼	08/01/17 03:39	08/01/17 17:52	1
Fluorene	**0.043**		0.0076	0.0027	mg/Kg	☼	08/01/17 03:39	08/01/17 17:52	1
Hexachlorobenzene	ND		0.0076	0.0030	mg/Kg	☼	08/01/17 03:39	08/01/17 17:52	1
Indeno[1,2,3-cd]pyrene	**0.18**		0.0076	0.0029	mg/Kg	☼	08/01/17 03:39	08/01/17 17:52	1
2-Methylphenol	ND		0.037	0.0033	mg/Kg	☼	08/01/17 03:39	08/01/17 17:52	1
Methylphenol, 3 & 4	**0.0062**	**J**	0.037	0.0033	mg/Kg	☼	08/01/17 03:39	08/01/17 17:52	1
Naphthalene	**0.040**		0.0076	0.0027	mg/Kg	☼	08/01/17 03:39	08/01/17 17:52	1
Pentachlorophenol	ND		0.19	0.071	mg/Kg	☼	08/01/17 03:39	08/01/17 17:52	1
Phenanthrene	**0.25**		0.0076	0.0032	mg/Kg	☼	08/01/17 03:39	08/01/17 17:52	1
Phenol	ND		0.037	0.0051	mg/Kg	☼	08/01/17 03:39	08/01/17 17:52	1
Pyrene	**0.38**		0.0076	0.0034	mg/Kg	☼	08/01/17 03:39	08/01/17 17:52	1
Hexachloroethane	ND		37	2.7	ug/Kg	☼	08/01/17 03:39	08/01/17 17:52	1
Nitrobenzene	ND		76	2.9	ug/Kg	☼	08/01/17 03:39	08/01/17 17:52	1
Hexachlorobutadiene	ND		7.6	2.4	ug/Kg	☼	08/01/17 03:39	08/01/17 17:52	1
2,4,5-Trichlorophenol	ND		37	3.6	ug/Kg	☼	08/01/17 03:39	08/01/17 17:52	1

Client Sample ID: WB6-7, S4, C 072617 **Lab Sample ID: 180-68622-6**
Date Collected: 07/26/17 15:10 **Matrix: Solid**
Date Received: 07/27/17 08:00 **Percent Solids: 86.5**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,6-Trichlorophenol	ND		37	3.3	ug/Kg	☼	08/01/17 03:39	08/01/17 17:52	1
2,4-Dinitrotoluene	ND		37	5.0	ug/Kg	☼	08/01/17 03:39	08/01/17 17:52	1
Pyridine	ND		37	3.6	ug/Kg	☼	08/01/17 03:39	08/01/17 17:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*67*		*42 - 100*	*08/01/17 03:39*	*08/01/17 17:52*	*1*
2-Fluorophenol (Surr)	*60*		*21 - 107*	*08/01/17 03:39*	*08/01/17 17:52*	*1*
Nitrobenzene-d5 (Surr)	*58*		*35 - 109*	*08/01/17 03:39*	*08/01/17 17:52*	*1*
Phenol-d5 (Surr)	*60*		*29 - 105*	*08/01/17 03:39*	*08/01/17 17:52*	*1*
Terphenyl-d14 (Surr)	*66*		*36 - 113*	*08/01/17 03:39*	*08/01/17 17:52*	*1*
2,4,6-Tribromophenol (Surr)	*88*		*20 - 134*	*08/01/17 03:39*	*08/01/17 17:52*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.019	0.010	mg/Kg	☼	08/01/17 03:45	08/03/17 09:31	1
PCB-1221	ND		0.019	0.0098	mg/Kg	☼	08/01/17 03:45	08/03/17 09:31	1
PCB-1232	ND		0.019	0.0075	mg/Kg	☼	08/01/17 03:45	08/03/17 09:31	1
PCB-1242	ND		0.019	0.015	mg/Kg	☼	08/01/17 03:45	08/03/17 09:31	1
PCB-1248	**0.76**		0.019	0.0090	mg/Kg	☼	08/01/17 03:45	08/03/17 09:31	1
PCB-1254	**0.34**		0.019	0.0083	mg/Kg	☼	08/01/17 03:45	08/03/17 09:31	1
PCB-1260	**0.068**		0.019	0.013	mg/Kg	☼	08/01/17 03:45	08/03/17 09:31	1
PCB-1262	ND		0.019	0.014	mg/Kg	☼	08/01/17 03:45	08/03/17 09:31	1
PCB-1268	ND		0.019	0.0058	mg/Kg	☼	08/01/17 03:45	08/03/17 09:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*53*		*23 - 150*	*08/01/17 03:45*	*08/03/17 09:31*	*1*
DCB Decachlorobiphenyl (Surr)	*54*		*23 - 150*	*08/01/17 03:45*	*08/03/17 09:31*	*1*
Tetrachloro-m-xylene (Surr)	*48*		*27 - 138*	*08/01/17 03:45*	*08/03/17 09:31*	*1*
Tetrachloro-m-xylene (Surr)	*41*		*27 - 138*	*08/01/17 03:45*	*08/03/17 09:31*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**7.2**		1.1	0.48	mg/Kg	☼	07/28/17 10:54	07/31/17 14:16	1
Barium	**160**		22	5.8	mg/Kg	☼	07/28/17 10:54	07/31/17 14:16	1
Beryllium	**0.35**	**J**	0.43	0.11	mg/Kg	☼	07/28/17 10:54	07/31/17 14:16	1
Cadmium	**0.19**	**J**	0.54	0.12	mg/Kg	☼	07/28/17 10:54	07/31/17 14:16	1
Chromium	**15**		0.54	0.14	mg/Kg	☼	07/28/17 10:54	07/31/17 14:16	1
Copper	**120**		2.7	0.83	mg/Kg	☼	07/28/17 10:54	07/31/17 14:16	1
Lead	**110**		1.1	0.35	mg/Kg	☼	07/28/17 10:54	07/31/17 14:16	1
Manganese	**390**		1.6	0.44	mg/Kg	☼	07/28/17 10:54	07/31/17 14:16	1
Nickel	**46**		4.3	0.97	mg/Kg	☼	07/28/17 10:54	07/31/17 14:16	1
Selenium	**0.88**	**J ^**	1.1	0.43	mg/Kg	☼	07/28/17 10:54	07/31/17 14:16	1
Silver	ND		0.54	0.18	mg/Kg	☼	07/28/17 10:54	07/31/17 14:16	1
Zinc	**90**		2.2	1.1	mg/Kg	☼	07/28/17 10:54	07/31/17 14:16	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.058**		0.039	0.0088	mg/Kg	☼	07/31/17 08:10	07/31/17 13:45	1

Client Sample ID: WB6-7, S4, C 072617 — Lab Sample ID: 180-68622-6

Date Collected: 07/26/17 15:10 — **Matrix: Solid**
Date Received: 07/27/17 08:00 — **Percent Solids: 86.5**

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	13.5		0.1	0.1	%			07/28/17 11:41	1
Percent Solids	86.5		0.1	0.1	%			07/28/17 11:41	1
Cyanide, Total	0.48	J	0.56	0.17	mg/Kg	☼	08/02/17 13:35	08/03/17 11:19	1

Client Sample ID: TRIP BLANK#1 — Lab Sample ID: 180-68622-9

Date Collected: 07/26/17 00:00 — **Matrix: Water**
Date Received: 07/27/17 08:00

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	3.8	J	5.0	3.1	ug/L			07/31/17 09:12	1
Benzene	ND		1.0	0.18	ug/L			07/31/17 09:12	1
2-Butanone (MEK)	ND		5.0	2.6	ug/L			07/31/17 09:12	1
Carbon tetrachloride	ND		1.0	0.56	ug/L			07/31/17 09:12	1
Chlorobenzene	ND		1.0	0.15	ug/L			07/31/17 09:12	1
Chloroform	ND		1.0	0.27	ug/L			07/31/17 09:12	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			07/31/17 09:12	1
1,2-Dichlorobenzene	ND		1.0	0.23	ug/L			07/31/17 09:12	1
1,3-Dichlorobenzene	ND		1.0	0.21	ug/L			07/31/17 09:12	1
1,4-Dichlorobenzene	ND		1.0	0.24	ug/L			07/31/17 09:12	1
1,1-Dichloroethane	ND		1.0	0.34	ug/L			07/31/17 09:12	1
1,2-Dichloroethane	ND		1.0	0.24	ug/L			07/31/17 09:12	1
1,1-Dichloroethene	ND		1.0	0.32	ug/L			07/31/17 09:12	1
Ethylbenzene	ND		1.0	0.25	ug/L			07/31/17 09:12	1
Methylene Chloride	ND		1.0	0.94	ug/L			07/31/17 09:12	1
Methyl tert-butyl ether	ND		1.0	0.20	ug/L			07/31/17 09:12	1
n-Butylbenzene	ND		1.0	0.22	ug/L			07/31/17 09:12	1
N-Propylbenzene	ND		1.0	0.20	ug/L			07/31/17 09:12	1
sec-Butylbenzene	ND		1.0	0.22	ug/L			07/31/17 09:12	1
tert-Butylbenzene	ND		1.0	0.17	ug/L			07/31/17 09:12	1
Tetrachloroethene	ND		1.0	0.24	ug/L			07/31/17 09:12	1
Toluene	ND		1.0	0.16	ug/L			07/31/17 09:12	1
trans-1,2-Dichloroethene	ND		1.0	0.20	ug/L			07/31/17 09:12	1
1,1,1-Trichloroethane	ND		1.0	0.27	ug/L			07/31/17 09:12	1
Trichloroethene	ND		1.0	0.20	ug/L			07/31/17 09:12	1
1,2,4-Trimethylbenzene	ND		1.0	0.18	ug/L			07/31/17 09:12	1
1,3,5-Trimethylbenzene	ND		1.0	0.17	ug/L			07/31/17 09:12	1
Vinyl chloride	ND		1.0	0.17	ug/L			07/31/17 09:12	1
Xylenes, Total	ND		2.0	0.27	ug/L			07/31/17 09:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*72 - 120*		*07/31/17 09:12*	*1*
Dibromofluoromethane (Surr)	*93*		*77 - 127*		*07/31/17 09:12*	*1*
1,2-Dichloroethane-d4 (Surr)	*85*		*72 - 134*		*07/31/17 09:12*	*1*
Toluene-d8 (Surr)	*93*		*80 - 120*		*07/31/17 09:12*	*1*

Method: 8260C - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 180-218548/5
Matrix: Water
Analysis Batch: 218548

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		5.0	3.1	ug/L			07/31/17 02:23	1
Benzene	ND		1.0	0.18	ug/L			07/31/17 02:23	1
2-Butanone (MEK)	ND		5.0	2.6	ug/L			07/31/17 02:23	1
Carbon tetrachloride	ND		1.0	0.56	ug/L			07/31/17 02:23	1
Chlorobenzene	ND		1.0	0.15	ug/L			07/31/17 02:23	1
Chloroform	ND		1.0	0.27	ug/L			07/31/17 02:23	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			07/31/17 02:23	1
1,2-Dichlorobenzene	ND		1.0	0.23	ug/L			07/31/17 02:23	1
1,3-Dichlorobenzene	ND		1.0	0.21	ug/L			07/31/17 02:23	1
1,4-Dichlorobenzene	ND		1.0	0.24	ug/L			07/31/17 02:23	1
1,1-Dichloroethane	ND		1.0	0.34	ug/L			07/31/17 02:23	1
1,2-Dichloroethane	ND		1.0	0.24	ug/L			07/31/17 02:23	1
1,1-Dichloroethene	ND		1.0	0.32	ug/L			07/31/17 02:23	1
Ethylbenzene	ND		1.0	0.25	ug/L			07/31/17 02:23	1
Methylene Chloride	ND		1.0	0.94	ug/L			07/31/17 02:23	1
Methyl tert-butyl ether	ND		1.0	0.20	ug/L			07/31/17 02:23	1
n-Butylbenzene	ND		1.0	0.22	ug/L			07/31/17 02:23	1
N-Propylbenzene	ND		1.0	0.20	ug/L			07/31/17 02:23	1
sec-Butylbenzene	ND		1.0	0.22	ug/L			07/31/17 02:23	1
tert-Butylbenzene	ND		1.0	0.17	ug/L			07/31/17 02:23	1
Tetrachloroethene	ND		1.0	0.24	ug/L			07/31/17 02:23	1
Toluene	ND		1.0	0.16	ug/L			07/31/17 02:23	1
trans-1,2-Dichloroethene	ND		1.0	0.20	ug/L			07/31/17 02:23	1
1,1,1-Trichloroethane	ND		1.0	0.27	ug/L			07/31/17 02:23	1
Trichloroethene	ND		1.0	0.20	ug/L			07/31/17 02:23	1
1,2,4-Trimethylbenzene	ND		1.0	0.18	ug/L			07/31/17 02:23	1
1,3,5-Trimethylbenzene	ND		1.0	0.17	ug/L			07/31/17 02:23	1
Vinyl chloride	ND		1.0	0.17	ug/L			07/31/17 02:23	1
Xylenes, Total	ND		2.0	0.27	ug/L			07/31/17 02:23	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*72 - 120*		*07/31/17 02:23*	*1*
Dibromofluoromethane (Surr)	*86*		*77 - 127*		*07/31/17 02:23*	*1*
1,2-Dichloroethane-d4 (Surr)	*86*		*72 - 134*		*07/31/17 02:23*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*		*07/31/17 02:23*	*1*

Lab Sample ID: LCS 180-218548/3
Matrix: Water
Analysis Batch: 218548

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	20.0	14.6		ug/L		73	10 - 150
Benzene	10.0	9.82		ug/L		98	80 - 121
2-Butanone (MEK)	20.0	17.3		ug/L		87	41 - 150
Carbon tetrachloride	10.0	12.2		ug/L		122	59 - 145
Chlorobenzene	10.0	10.9		ug/L		109	80 - 120
Chloroform	10.0	9.65		ug/L		96	78 - 122
cis-1,2-Dichloroethene	10.0	9.47		ug/L		95	80 - 120

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 180-218548/3
Matrix: Water
Analysis Batch: 218548

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichlorobenzene	10.0	9.60		ug/L		96	80 - 120
1,3-Dichlorobenzene	10.0	9.83		ug/L		98	80 - 120
1,4-Dichlorobenzene	10.0	9.98		ug/L		100	80 - 120
1,1-Dichloroethane	10.0	10.7		ug/L		107	76 - 126
1,2-Dichloroethane	10.0	9.55		ug/L		96	72 - 126
1,1-Dichloroethene	10.0	10.7		ug/L		107	71 - 122
Ethylbenzene	10.0	10.7		ug/L		107	80 - 123
Methylene Chloride	10.0	9.12		ug/L		91	71 - 129
Methyl tert-butyl ether	10.0	9.15		ug/L		92	68 - 124
n-Butylbenzene	10.0	9.88		ug/L		99	75 - 120
N-Propylbenzene	10.0	10.9		ug/L		109	78 - 121
sec-Butylbenzene	10.0	10.7		ug/L		107	80 - 121
tert-Butylbenzene	10.0	11.0		ug/L		110	79 - 120
Tetrachloroethene	10.0	10.8		ug/L		108	80 - 122
Toluene	10.0	10.7		ug/L		107	80 - 125
trans-1,2-Dichloroethene	10.0	10.2		ug/L		102	80 - 121
1,1,1-Trichloroethane	10.0	10.4		ug/L		104	57 - 128
Trichloroethene	10.0	11.1		ug/L		111	79 - 120
1,2,4-Trimethylbenzene	10.0	10.1		ug/L		101	80 - 120
1,3,5-Trimethylbenzene	10.0	10.3		ug/L		103	80 - 122
Vinyl chloride	10.0	8.95		ug/L		90	61 - 138
Xylenes, Total	20.0	21.2		ug/L		106	80 - 123

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*72 - 120*
Dibromofluoromethane (Surr)	*95*		*77 - 127*
1,2-Dichloroethane-d4 (Surr)	*90*		*72 - 134*
Toluene-d8 (Surr)	*106*		*80 - 120*

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 180-218353/9
Matrix: Solid
Analysis Batch: 218353

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.020	0.0032	mg/Kg			07/28/17 09:13	1
Benzene	ND		0.0050	0.0020	mg/Kg			07/28/17 09:13	1
2-Butanone (MEK)	ND		0.0050	0.0029	mg/Kg			07/28/17 09:13	1
Carbon tetrachloride	ND		0.0050	0.0033	mg/Kg			07/28/17 09:13	1
Chlorobenzene	ND		0.0050	0.0016	mg/Kg			07/28/17 09:13	1
Chloroform	ND		0.0050	0.0021	mg/Kg			07/28/17 09:13	1
cis-1,2-Dichloroethene	ND		0.0050	0.0016	mg/Kg			07/28/17 09:13	1
1,2-Dichlorobenzene	ND		0.0050	0.0040	mg/Kg			07/28/17 09:13	1
1,3-Dichlorobenzene	ND		0.0050	0.0016	mg/Kg			07/28/17 09:13	1
1,4-Dichlorobenzene	ND		0.0050	0.0010	mg/Kg			07/28/17 09:13	1
1,1-Dichloroethane	ND		0.0050	0.0018	mg/Kg			07/28/17 09:13	1
1,2-Dichloroethane	ND		0.0050	0.0015	mg/Kg			07/28/17 09:13	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 180-218353/9
Matrix: Solid
Analysis Batch: 218353

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		0.0050	0.0029	mg/Kg			07/28/17 09:13	1
Ethylbenzene	ND		0.0050	0.0022	mg/Kg			07/28/17 09:13	1
Methylene Chloride	ND		0.0050	0.0024	mg/Kg			07/28/17 09:13	1
Methyl tert-butyl ether	ND		0.0050	0.0037	mg/Kg			07/28/17 09:13	1
n-Butylbenzene	ND		0.0050	0.0038	mg/Kg			07/28/17 09:13	1
N-Propylbenzene	ND		0.0050	0.0021	mg/Kg			07/28/17 09:13	1
sec-Butylbenzene	ND		0.0050	0.0024	mg/Kg			07/28/17 09:13	1
tert-Butylbenzene	ND		0.0050	0.0018	mg/Kg			07/28/17 09:13	1
Tetrachloroethene	ND		0.0050	0.0020	mg/Kg			07/28/17 09:13	1
Toluene	ND		0.0050	0.0017	mg/Kg			07/28/17 09:13	1
trans-1,2-Dichloroethene	ND		0.0050	0.0025	mg/Kg			07/28/17 09:13	1
1,1,1-Trichloroethane	ND		0.0050	0.0025	mg/Kg			07/28/17 09:13	1
Trichloroethene	ND		0.0050	0.0015	mg/Kg			07/28/17 09:13	1
1,2,4-Trimethylbenzene	ND		0.0050	0.0013	mg/Kg			07/28/17 09:13	1
1,3,5-Trimethylbenzene	ND		0.0050	0.0017	mg/Kg			07/28/17 09:13	1
Vinyl chloride	ND		0.0050	0.0037	mg/Kg			07/28/17 09:13	1
Xylenes, Total	ND		0.010	0.0043	mg/Kg			07/28/17 09:13	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*63 - 120*		*07/28/17 09:13*	*1*
Dibromofluoromethane (Surr)	*104*		*68 - 121*		*07/28/17 09:13*	*1*
1,2-Dichloroethane-d4 (Surr)	*118*		*52 - 124*		*07/28/17 09:13*	*1*
Toluene-d8 (Surr)	*107*		*72 - 127*		*07/28/17 09:13*	*1*

Lab Sample ID: LCS 180-218353/4
Matrix: Solid
Analysis Batch: 218353

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0400	0.0409		mg/Kg		102	20 - 150
Benzene	0.0400	0.0403		mg/Kg		101	77 - 120
2-Butanone (MEK)	0.0400	0.0399		mg/Kg		100	35 - 149
Carbon tetrachloride	0.0400	0.0443		mg/Kg		111	69 - 122
Chlorobenzene	0.0400	0.0409		mg/Kg		102	79 - 120
Chloroform	0.0400	0.0422		mg/Kg		106	72 - 120
cis-1,2-Dichloroethene	0.0400	0.0404		mg/Kg		101	80 - 118
1,2-Dichlorobenzene	0.0400	0.0407		mg/Kg		102	71 - 124
1,3-Dichlorobenzene	0.0400	0.0403		mg/Kg		101	75 - 118
1,4-Dichlorobenzene	0.0400	0.0401		mg/Kg		100	77 - 116
1,1-Dichloroethane	0.0400	0.0422		mg/Kg		105	66 - 124
1,2-Dichloroethane	0.0400	0.0445		mg/Kg		111	61 - 127
1,1-Dichloroethene	0.0400	0.0393		mg/Kg		98	59 - 129
Ethylbenzene	0.0400	0.0412		mg/Kg		103	78 - 125
Methylene Chloride	0.0400	0.0399		mg/Kg		100	58 - 127
Methyl tert-butyl ether	0.0400	0.0419		mg/Kg		105	48 - 132
n-Butylbenzene	0.0400	0.0458		mg/Kg		114	59 - 145
N-Propylbenzene	0.0400	0.0425		mg/Kg		106	80 - 120
sec-Butylbenzene	0.0400	0.0441		mg/Kg		110	70 - 130

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 180-218353/4
Matrix: Solid
Analysis Batch: 218353

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
tert-Butylbenzene			0.0400	0.0439		mg/Kg		110	74 - 133		
Tetrachloroethene			0.0400	0.0395		mg/Kg		99	78 - 129		
Toluene			0.0400	0.0412		mg/Kg		103	78 - 124		
trans-1,2-Dichloroethene			0.0400	0.0403		mg/Kg		101	77 - 121		
1,1,1-Trichloroethane			0.0400	0.0443		mg/Kg		111	67 - 126		
Trichloroethene			0.0400	0.0398		mg/Kg		99	76 - 119		
1,2,4-Trimethylbenzene			0.0400	0.0430		mg/Kg		107	80 - 121		
1,3,5-Trimethylbenzene			0.0400	0.0429		mg/Kg		107	68 - 133		
Vinyl chloride			0.0400	0.0315		mg/Kg		79	63 - 124		
Xylenes, Total			0.0800	0.0811		mg/Kg		101	83 - 126		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*63 - 120*
Dibromofluoromethane (Surr)	*104*		*68 - 121*
1,2-Dichloroethane-d4 (Surr)	*108*		*52 - 124*
Toluene-d8 (Surr)	*104*		*72 - 127*

Lab Sample ID: LCSD 180-218353/5
Matrix: Solid
Analysis Batch: 218353

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone			0.0400	0.0405		mg/Kg		101	20 - 150	1	40
Benzene			0.0400	0.0414		mg/Kg		104	77 - 120	3	20
2-Butanone (MEK)			0.0400	0.0395		mg/Kg		99	35 - 149	1	36
Carbon tetrachloride			0.0400	0.0459		mg/Kg		115	69 - 122	3	22
Chlorobenzene			0.0400	0.0424		mg/Kg		106	79 - 120	4	20
Chloroform			0.0400	0.0438		mg/Kg		109	72 - 120	4	25
cis-1,2-Dichloroethene			0.0400	0.0413		mg/Kg		103	80 - 118	2	20
1,2-Dichlorobenzene			0.0400	0.0424		mg/Kg		106	71 - 124	4	22
1,3-Dichlorobenzene			0.0400	0.0420		mg/Kg		105	75 - 118	4	20
1,4-Dichlorobenzene			0.0400	0.0418		mg/Kg		105	77 - 116	4	20
1,1-Dichloroethane			0.0400	0.0436		mg/Kg		109	66 - 124	3	23
1,2-Dichloroethane			0.0400	0.0464		mg/Kg		116	61 - 127	4	23
1,1-Dichloroethene			0.0400	0.0403		mg/Kg		101	59 - 129	2	25
Ethylbenzene			0.0400	0.0425		mg/Kg		106	78 - 125	3	21
Methylene Chloride			0.0400	0.0417		mg/Kg		104	58 - 127	4	28
Methyl tert-butyl ether			0.0400	0.0446		mg/Kg		111	48 - 132	6	36
n-Butylbenzene			0.0400	0.0473		mg/Kg		118	59 - 145	3	24
N-Propylbenzene			0.0400	0.0439		mg/Kg		110	80 - 120	3	20
sec-Butylbenzene			0.0400	0.0457		mg/Kg		114	70 - 130	3	21
tert-Butylbenzene			0.0400	0.0456		mg/Kg		114	74 - 133	4	22
Tetrachloroethene			0.0400	0.0408		mg/Kg		102	78 - 129	3	20
Toluene			0.0400	0.0424		mg/Kg		106	78 - 124	3	21
trans-1,2-Dichloroethene			0.0400	0.0415		mg/Kg		104	77 - 121	3	20
1,1,1-Trichloroethane			0.0400	0.0472		mg/Kg		118	67 - 126	6	31
Trichloroethene			0.0400	0.0411		mg/Kg		103	76 - 119	3	21
1,2,4-Trimethylbenzene			0.0400	0.0445		mg/Kg		111	80 - 121	4	20

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 180-218353/5
Matrix: Solid
Analysis Batch: 218353

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,3,5-Trimethylbenzene			0.0400	0.0447		mg/Kg		112	68 - 133	4	21
Vinyl chloride			0.0400	0.0336		mg/Kg		84	63 - 124	6	27
Xylenes, Total			0.0800	0.0838		mg/Kg		105	83 - 126	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*107*		*63 - 120*
Dibromofluoromethane (Surr)	*107*		*68 - 121*
1,2-Dichloroethane-d4 (Surr)	*114*		*52 - 124*
Toluene-d8 (Surr)	*107*		*72 - 127*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Lab Sample ID: MB 180-218664/1-A
Matrix: Solid
Analysis Batch: 218731

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 218664

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0034	0.0011	mg/Kg		08/01/17 03:39	08/01/17 13:21	1
Acenaphthylene	ND		0.0034	0.0011	mg/Kg		08/01/17 03:39	08/01/17 13:21	1
Anthracene	ND		0.0034	0.0012	mg/Kg		08/01/17 03:39	08/01/17 13:21	1
Benzo[a]anthracene	ND		0.0034	0.0013	mg/Kg		08/01/17 03:39	08/01/17 13:21	1
Benzo[a]pyrene	ND		0.0034	0.0014	mg/Kg		08/01/17 03:39	08/01/17 13:21	1
Benzo[b]fluoranthene	ND		0.0034	0.0014	mg/Kg		08/01/17 03:39	08/01/17 13:21	1
Benzo[g,h,i]perylene	ND		0.0034	0.0014	mg/Kg		08/01/17 03:39	08/01/17 13:21	1
Benzo[k]fluoranthene	ND		0.0034	0.0012	mg/Kg		08/01/17 03:39	08/01/17 13:21	1
Chrysene	ND		0.0034	0.0013	mg/Kg		08/01/17 03:39	08/01/17 13:21	1
Dibenz(a,h)anthracene	ND		0.0034	0.0014	mg/Kg		08/01/17 03:39	08/01/17 13:21	1
Dibenzofuran	ND		0.017	0.0013	mg/Kg		08/01/17 03:39	08/01/17 13:21	1
1,4-Dioxane	ND		0.033	0.0025	mg/Kg		08/01/17 03:39	08/01/17 13:21	1
Fluoranthene	ND		0.0034	0.0013	mg/Kg		08/01/17 03:39	08/01/17 13:21	1
Fluorene	ND		0.0034	0.0012	mg/Kg		08/01/17 03:39	08/01/17 13:21	1
Hexachlorobenzene	ND		0.0034	0.0013	mg/Kg		08/01/17 03:39	08/01/17 13:21	1
Indeno[1,2,3-cd]pyrene	ND		0.0034	0.0013	mg/Kg		08/01/17 03:39	08/01/17 13:21	1
2-Methylphenol	ND		0.017	0.0015	mg/Kg		08/01/17 03:39	08/01/17 13:21	1
Methylphenol, 3 & 4	ND		0.017	0.0015	mg/Kg		08/01/17 03:39	08/01/17 13:21	1
Naphthalene	ND		0.0034	0.0012	mg/Kg		08/01/17 03:39	08/01/17 13:21	1
Pentachlorophenol	ND		0.085	0.032	mg/Kg		08/01/17 03:39	08/01/17 13:21	1
Phenanthrene	ND		0.0034	0.0014	mg/Kg		08/01/17 03:39	08/01/17 13:21	1
Phenol	ND		0.017	0.0023	mg/Kg		08/01/17 03:39	08/01/17 13:21	1
Pyrene	ND		0.0034	0.0015	mg/Kg		08/01/17 03:39	08/01/17 13:21	1
Hexachloroethane	ND		17	1.2	ug/Kg		08/01/17 03:39	08/01/17 13:21	1
Nitrobenzene	ND		33	1.3	ug/Kg		08/01/17 03:39	08/01/17 13:21	1
Hexachlorobutadiene	ND		3.4	1.1	ug/Kg		08/01/17 03:39	08/01/17 13:21	1
2,4,5-Trichlorophenol	ND		17	1.6	ug/Kg		08/01/17 03:39	08/01/17 13:21	1
2,4,6-Trichlorophenol	ND		17	1.5	ug/Kg		08/01/17 03:39	08/01/17 13:21	1
2,4-Dinitrotoluene	ND		17	2.2	ug/Kg		08/01/17 03:39	08/01/17 13:21	1
Pyridine	ND		17	1.6	ug/Kg		08/01/17 03:39	08/01/17 13:21	1

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: MB 180-218664/1-A
Matrix: Solid
Analysis Batch: 218731

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 218664

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	69		42 - 100	08/01/17 03:39	08/01/17 13:21	1
2-Fluorophenol (Surr)	75		21 - 107	08/01/17 03:39	08/01/17 13:21	1
Nitrobenzene-d5 (Surr)	65		35 - 109	08/01/17 03:39	08/01/17 13:21	1
Phenol-d5 (Surr)	67		29 - 105	08/01/17 03:39	08/01/17 13:21	1
Terphenyl-d14 (Surr)	64		36 - 113	08/01/17 03:39	08/01/17 13:21	1
2,4,6-Tribromophenol (Surr)	80		20 - 134	08/01/17 03:39	08/01/17 13:21	1

Lab Sample ID: LCS 180-218664/2-A
Matrix: Solid
Analysis Batch: 218731

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 218664

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	0.333	0.195		mg/Kg		59	39 - 100
Acenaphthylene	0.333	0.207		mg/Kg		62	42 - 100
Anthracene	0.333	0.201		mg/Kg		60	43 - 100
Benzo[a]anthracene	0.333	0.207		mg/Kg		62	43 - 100
Benzo[a]pyrene	0.333	0.217		mg/Kg		65	43 - 100
Benzo[b]fluoranthene	0.333	0.198		mg/Kg		60	40 - 100
Benzo[g,h,i]perylene	0.333	0.231		mg/Kg		69	41 - 102
Benzo[k]fluoranthene	0.333	0.205		mg/Kg		62	44 - 100
Chrysene	0.333	0.215		mg/Kg		64	44 - 100
Dibenz(a,h)anthracene	0.333	0.228		mg/Kg		68	40 - 104
Dibenzofuran	0.333	0.216		mg/Kg		65	42 - 100
1,4-Dioxane	0.333	0.259		mg/Kg		78	19 - 107
Fluoranthene	0.333	0.223		mg/Kg		67	41 - 104
Fluorene	0.333	0.217		mg/Kg		65	41 - 100
Hexachlorobenzene	0.333	0.216		mg/Kg		65	43 - 100
Indeno[1,2,3-cd]pyrene	0.333	0.230		mg/Kg		69	41 - 104
2-Methylphenol	0.333	0.209		mg/Kg		63	38 - 100
Methylphenol, 3 & 4	0.333	0.211		mg/Kg		63	40 - 100
Naphthalene	0.333	0.209		mg/Kg		63	38 - 100
Pentachlorophenol	0.667	0.405		mg/Kg		61	34 - 102
Phenanthrene	0.333	0.197		mg/Kg		59	41 - 100
Phenol	0.333	0.198		mg/Kg		59	36 - 100
Pyrene	0.333	0.198		mg/Kg		59	42 - 100
Hexachloroethane	333	214		ug/Kg		64	35 - 100
Nitrobenzene	333	185		ug/Kg		56	34 - 100
Hexachlorobutadiene	333	259		ug/Kg		78	35 - 100
2,4,5-Trichlorophenol	333	216		ug/Kg		65	42 - 100
2,4,6-Trichlorophenol	333	224		ug/Kg		67	41 - 103
2,4-Dinitrotoluene	333	250		ug/Kg		75	42 - 110
Pyridine	667	545		ug/Kg		82	25 - 119

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	60		42 - 100
2-Fluorophenol (Surr)	72		21 - 107
Nitrobenzene-d5 (Surr)	56		35 - 109

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCS 180-218664/2-A
Matrix: Solid
Analysis Batch: 218731

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 218664

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Phenol-d5 (Surr)	*62*		*29 - 105*
Terphenyl-d14 (Surr)	*63*		*36 - 113*
2,4,6-Tribromophenol (Surr)	*69*		*20 - 134*

Lab Sample ID: 180-68622-3 MS
Matrix: Solid
Analysis Batch: 218731

Client Sample ID: WB6-7, S3, C 072617
Prep Type: Total/NA
Prep Batch: 218664

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	0.027		0.775	0.507		mg/Kg	☼	62	39 - 100
Acenaphthylene	0.040		0.775	0.529		mg/Kg	☼	63	42 - 100
Anthracene	0.082		0.775	0.583		mg/Kg	☼	65	43 - 100
Benzo[a]anthracene	0.27		0.775	0.735		mg/Kg	☼	60	43 - 100
Benzo[a]pyrene	0.27		0.775	0.737		mg/Kg	☼	60	43 - 100
Benzo[b]fluoranthene	0.34		0.775	0.707		mg/Kg	☼	47	40 - 100
Benzo[g,h,i]perylene	0.26		0.775	0.893		mg/Kg	☼	81	41 - 102
Benzo[k]fluoranthene	0.14		0.775	0.621		mg/Kg	☼	62	44 - 100
Chrysene	0.31		0.775	0.764		mg/Kg	☼	59	44 - 100
Dibenz(a,h)anthracene	0.057		0.775	0.713		mg/Kg	☼	85	40 - 104
Dibenzofuran	0.020	J	0.775	0.553		mg/Kg	☼	69	42 - 100
1,4-Dioxane	ND		0.775	0.490		mg/Kg	☼	63	19 - 107
Fluoranthene	0.50		0.775	0.898		mg/Kg	☼	51	41 - 104
Fluorene	0.029		0.775	0.558		mg/Kg	☼	68	41 - 100
Hexachlorobenzene	ND		0.775	0.565		mg/Kg	☼	73	43 - 100
Indeno[1,2,3-cd]pyrene	0.22		0.775	0.829		mg/Kg	☼	79	41 - 104
2-Methylphenol	ND		0.775	0.463		mg/Kg	☼	60	38 - 100
Methylphenol, 3 & 4	ND		0.775	0.506		mg/Kg	☼	65	40 - 100
Naphthalene	0.023		0.775	0.504		mg/Kg	☼	62	38 - 100
Pentachlorophenol	ND		1.55	1.05		mg/Kg	☼	68	34 - 102
Phenanthrene	0.23		0.775	0.667		mg/Kg	☼	56	41 - 100
Phenol	ND		0.775	0.457		mg/Kg	☼	59	36 - 100
Pyrene	0.40		0.775	0.757		mg/Kg	☼	47	42 - 100
Hexachloroethane	ND		775	471		ug/Kg	☼	61	35 - 100
Nitrobenzene	ND		775	427		ug/Kg	☼	55	34 - 100
Hexachlorobutadiene	ND		775	591		ug/Kg	☼	76	35 - 100
2,4,5-Trichlorophenol	ND		775	562		ug/Kg	☼	73	42 - 100
2,4,6-Trichlorophenol	ND		775	542		ug/Kg	☼	70	41 - 103
2,4-Dinitrotoluene	ND		775	628		ug/Kg	☼	81	42 - 110
Pyridine	ND		1550	595		ug/Kg	☼	38	25 - 119

Surrogate	MS %Recovery	MS Qualifier	Limits
2-Fluorobiphenyl	*64*		*42 - 100*
2-Fluorophenol (Surr)	*68*		*21 - 107*
Nitrobenzene-d5 (Surr)	*58*		*35 - 109*
Phenol-d5 (Surr)	*63*		*29 - 105*
Terphenyl-d14 (Surr)	*65*		*36 - 113*
2,4,6-Tribromophenol (Surr)	*85*		*20 - 134*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: 180-68622-3 MSD
Matrix: Solid
Analysis Batch: 218731

Client Sample ID: WB6-7, S3, C 072617
Prep Type: Total/NA
Prep Batch: 218664

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	0.027		0.780	0.517		mg/Kg	☼	63	39 - 100	2	20
Acenaphthylene	0.040		0.780	0.536		mg/Kg	☼	64	42 - 100	1	20
Anthracene	0.082		0.780	0.603		mg/Kg	☼	67	43 - 100	3	20
Benzo[a]anthracene	0.27		0.780	0.748		mg/Kg	☼	61	43 - 100	2	20
Benzo[a]pyrene	0.27		0.780	0.759		mg/Kg	☼	62	43 - 100	3	20
Benzo[b]fluoranthene	0.34		0.780	0.744		mg/Kg	☼	52	40 - 100	5	20
Benzo[g,h,i]perylene	0.26		0.780	0.958		mg/Kg	☼	89	41 - 102	7	20
Benzo[k]fluoranthene	0.14		0.780	0.623		mg/Kg	☼	62	44 - 100	0	20
Chrysene	0.31		0.780	0.833		mg/Kg	☼	67	44 - 100	9	20
Dibenz(a,h)anthracene	0.057		0.780	0.768		mg/Kg	☼	91	40 - 104	7	26
Dibenzofuran	0.020	J	0.780	0.564		mg/Kg	☼	70	42 - 100	2	23
1,4-Dioxane	ND		0.780	0.505		mg/Kg	☼	65	19 - 107	3	20
Fluoranthene	0.50		0.780	0.952		mg/Kg	☼	58	41 - 104	6	20
Fluorene	0.029		0.780	0.566		mg/Kg	☼	69	41 - 100	1	21
Hexachlorobenzene	ND		0.780	0.586		mg/Kg	☼	75	43 - 100	4	21
Indeno[1,2,3-cd]pyrene	0.22		0.780	0.891		mg/Kg	☼	86	41 - 104	7	25
2-Methylphenol	ND		0.780	0.486		mg/Kg	☼	62	38 - 100	5	20
Methylphenol, 3 & 4	ND		0.780	0.510		mg/Kg	☼	65	40 - 100	1	20
Naphthalene	0.023		0.780	0.516		mg/Kg	☼	63	38 - 100	2	20
Pentachlorophenol	ND		1.56	1.10		mg/Kg	☼	71	34 - 102	5	20
Phenanthrene	0.23		0.780	0.693		mg/Kg	☼	59	41 - 100	4	20
Phenol	ND		0.780	0.471		mg/Kg	☼	60	36 - 100	3	20
Pyrene	0.40		0.780	0.781		mg/Kg	☼	49	42 - 100	3	21
Hexachloroethane	ND		780	482		ug/Kg	☼	62	35 - 100	2	20
Nitrobenzene	ND		780	432		ug/Kg	☼	55	34 - 100	1	20
Hexachlorobutadiene	ND		780	611		ug/Kg	☼	78	35 - 100	3	20
2,4,5-Trichlorophenol	ND		780	583		ug/Kg	☼	75	42 - 100	4	22
2,4,6-Trichlorophenol	ND		780	578		ug/Kg	☼	74	41 - 103	6	25
2,4-Dinitrotoluene	ND		780	641		ug/Kg	☼	82	42 - 110	2	21
Pyridine	ND		1560	607		ug/Kg	☼	39	25 - 119	2	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl	*63*		*42 - 100*
2-Fluorophenol (Surr)	*68*		*21 - 107*
Nitrobenzene-d5 (Surr)	*60*		*35 - 109*
Phenol-d5 (Surr)	*65*		*29 - 105*
Terphenyl-d14 (Surr)	*68*		*36 - 113*
2,4,6-Tribromophenol (Surr)	*87*		*20 - 134*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 180-218666/1-A
Matrix: Solid
Analysis Batch: 218951

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 218666

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.017	0.0088	mg/Kg		08/01/17 03:45	08/03/17 08:33	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: MB 180-218666/1-A
Matrix: Solid
Analysis Batch: 218951

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 218666

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1221	ND		0.017	0.0086	mg/Kg		08/01/17 03:45	08/03/17 08:33	1
PCB-1232	ND		0.017	0.0066	mg/Kg		08/01/17 03:45	08/03/17 08:33	1
PCB-1242	ND		0.017	0.013	mg/Kg		08/01/17 03:45	08/03/17 08:33	1
PCB-1248	ND		0.017	0.0080	mg/Kg		08/01/17 03:45	08/03/17 08:33	1
PCB-1254	ND		0.017	0.0073	mg/Kg		08/01/17 03:45	08/03/17 08:33	1
PCB-1260	ND		0.017	0.011	mg/Kg		08/01/17 03:45	08/03/17 08:33	1
PCB-1262	ND		0.017	0.012	mg/Kg		08/01/17 03:45	08/03/17 08:33	1
PCB-1268	ND		0.017	0.0051	mg/Kg		08/01/17 03:45	08/03/17 08:33	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*84*		*23 - 150*	*08/01/17 03:45*	*08/03/17 08:33*	*1*
DCB Decachlorobiphenyl (Surr)	*86*		*23 - 150*	*08/01/17 03:45*	*08/03/17 08:33*	*1*
Tetrachloro-m-xylene (Surr)	*95*		*27 - 138*	*08/01/17 03:45*	*08/03/17 08:33*	*1*
Tetrachloro-m-xylene (Surr)	*87*		*27 - 138*	*08/01/17 03:45*	*08/03/17 08:33*	*1*

Lab Sample ID: LCS 180-218666/2-A
Matrix: Solid
Analysis Batch: 218951

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 218666

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			1.33	1.14		mg/Kg		85	52 - 126		
PCB-1260			1.33	1.10		mg/Kg		83	50 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*80*		*23 - 150*
DCB Decachlorobiphenyl (Surr)	*83*		*23 - 150*
Tetrachloro-m-xylene (Surr)	*88*		*27 - 138*
Tetrachloro-m-xylene (Surr)	*81*		*27 - 138*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 180-218412/1-A
Matrix: Solid
Analysis Batch: 218674

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 218412

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		1.0	0.44	mg/Kg		07/28/17 10:54	07/31/17 14:01	1
Barium	ND		20	5.4	mg/Kg		07/28/17 10:54	07/31/17 14:01	1
Beryllium	ND		0.40	0.10	mg/Kg		07/28/17 10:54	07/31/17 14:01	1
Cadmium	ND		0.50	0.11	mg/Kg		07/28/17 10:54	07/31/17 14:01	1
Chromium	ND		0.50	0.13	mg/Kg		07/28/17 10:54	07/31/17 14:01	1
Copper	ND		2.5	0.77	mg/Kg		07/28/17 10:54	07/31/17 14:01	1
Lead	ND		1.0	0.33	mg/Kg		07/28/17 10:54	07/31/17 14:01	1
Manganese	ND		1.5	0.41	mg/Kg		07/28/17 10:54	07/31/17 14:01	1
Nickel	ND		4.0	0.90	mg/Kg		07/28/17 10:54	07/31/17 14:01	1
Selenium	ND	^	1.0	0.40	mg/Kg		07/28/17 10:54	07/31/17 14:01	1
Silver	ND		0.50	0.17	mg/Kg		07/28/17 10:54	07/31/17 14:01	1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: MB 180-218412/1-A
Matrix: Solid
Analysis Batch: 218674

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 218412

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	ND		2.0	1.0	mg/Kg		07/28/17 10:54	07/31/17 14:01	1

Lab Sample ID: LCS 180-218412/2-A
Matrix: Solid
Analysis Batch: 218674

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 218412

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	50.0	51.4		mg/Kg		103	80 - 120
Barium	200	201		mg/Kg		101	80 - 120
Beryllium	5.00	5.12		mg/Kg		102	80 - 120
Cadmium	5.00	5.13		mg/Kg		103	80 - 120
Chromium	20.0	19.7		mg/Kg		98	80 - 120
Copper	25.0	25.3		mg/Kg		101	80 - 120
Lead	50.0	49.7		mg/Kg		99	80 - 120
Manganese	50.0	49.5		mg/Kg		99	80 - 120
Nickel	50.0	50.8		mg/Kg		102	80 - 120
Selenium	50.0	52.6	^	mg/Kg		105	80 - 120
Silver	5.00	5.02		mg/Kg		100	80 - 120
Zinc	50.0	50.4		mg/Kg		101	80 - 120

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 180-218386/1-A
Matrix: Solid
Analysis Batch: 218639

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 218386

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.033	0.0074	mg/Kg		07/31/17 08:10	07/31/17 13:35	1

Lab Sample ID: LCS 180-218386/2-A
Matrix: Solid
Analysis Batch: 218639

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 218386

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.417	0.446		mg/Kg		107	80 - 120

Lab Sample ID: 180-68622-3 MS
Matrix: Solid
Analysis Batch: 218639

Client Sample ID: WB6-7, S3, C 072617
Prep Type: Total/NA
Prep Batch: 218386

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.035	J F1	0.218	0.298	F1	mg/Kg	☼	121	80 - 120

Lab Sample ID: 180-68622-3 MSD
Matrix: Solid
Analysis Batch: 218639

Client Sample ID: WB6-7, S3, C 072617
Prep Type: Total/NA
Prep Batch: 218386

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.035	J F1	0.203	0.273		mg/Kg	☼	117	80 - 120	9	20

Method: 2540G - SM 2540G

Lab Sample ID: 180-68622-3 DU
Matrix: Solid
Analysis Batch: 218418

Client Sample ID: WB6-7, S3, C 072617
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	15.1		16.7		%		10	20
Percent Solids	84.9		83.3		%		2	20

Method: 9014 - Cyanide

Lab Sample ID: MB 180-218907/4-A
Matrix: Solid
Analysis Batch: 219021

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 218907

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.50	0.15	mg/Kg		08/02/17 13:35	08/03/17 11:09	1

Lab Sample ID: HLCS 180-218907/2-A
Matrix: Solid
Analysis Batch: 219021

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 218907

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.250	0.255		mg/Kg		102	90 - 110

Lab Sample ID: LCS 180-218907/3-A
Matrix: Solid
Analysis Batch: 219021

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 218907

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	164	119		mg/Kg		73	38 - 162

Lab Sample ID: LLCS 180-218907/1-A
Matrix: Solid
Analysis Batch: 219021

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 218907

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.0500	0.0501		mg/Kg		100	90 - 110

Lab Sample ID: 180-68622-3 MS
Matrix: Solid
Analysis Batch: 219021

Client Sample ID: WB6-7, S3, C 072617
Prep Type: Total/NA
Prep Batch: 218907

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.37	J	5.83	6.24		mg/Kg	☼	101	75 - 125

Lab Sample ID: 180-68622-3 MSD
Matrix: Solid
Analysis Batch: 219021

Client Sample ID: WB6-7, S3, C 072617
Prep Type: Total/NA
Prep Batch: 218907

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cyanide, Total	0.37	J	5.72	5.56		mg/Kg	☼	91	75 - 125	12	20

QC Association Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68622-1

GC/MS VOA

Analysis Batch: 218353

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68622-1	WB6-7, S3, A 072617	Total/NA	Solid	8260C	218356
180-68622-2	WB6-7, S3, B 072617	Total/NA	Solid	8260C	218356
180-68622-4	WB6-7, S4, A 072617	Total/NA	Solid	8260C	218356
180-68622-5	WB6-7, S4, B 072617	Total/NA	Solid	8260C	218356
MB 180-218353/9	Method Blank	Total/NA	Solid	8260C	
LCS 180-218353/4	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 180-218353/5	Lab Control Sample Dup	Total/NA	Solid	8260C	

Prep Batch: 218356

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68622-1	WB6-7, S3, A 072617	Total/NA	Solid	5035	
180-68622-2	WB6-7, S3, B 072617	Total/NA	Solid	5035	
180-68622-4	WB6-7, S4, A 072617	Total/NA	Solid	5035	
180-68622-5	WB6-7, S4, B 072617	Total/NA	Solid	5035	

Analysis Batch: 218548

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68622-9	TRIP BLANK#1	Total/NA	Water	8260C	
MB 180-218548/5	Method Blank	Total/NA	Water	8260C	
LCS 180-218548/3	Lab Control Sample	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 218664

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68622-3	WB6-7, S3, C 072617	Total/NA	Solid	3541	
180-68622-6	WB6-7, S4, C 072617	Total/NA	Solid	3541	
MB 180-218664/1-A	Method Blank	Total/NA	Solid	3541	
LCS 180-218664/2-A	Lab Control Sample	Total/NA	Solid	3541	
180-68622-3 MS	WB6-7, S3, C 072617	Total/NA	Solid	3541	
180-68622-3 MSD	WB6-7, S3, C 072617	Total/NA	Solid	3541	

Analysis Batch: 218731

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68622-3	WB6-7, S3, C 072617	Total/NA	Solid	8270D LL	218664
180-68622-6	WB6-7, S4, C 072617	Total/NA	Solid	8270D LL	218664
MB 180-218664/1-A	Method Blank	Total/NA	Solid	8270D LL	218664
LCS 180-218664/2-A	Lab Control Sample	Total/NA	Solid	8270D LL	218664
180-68622-3 MS	WB6-7, S3, C 072617	Total/NA	Solid	8270D LL	218664
180-68622-3 MSD	WB6-7, S3, C 072617	Total/NA	Solid	8270D LL	218664

GC Semi VOA

Prep Batch: 218666

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68622-3	WB6-7, S3, C 072617	Total/NA	Solid	3541	
180-68622-6	WB6-7, S4, C 072617	Total/NA	Solid	3541	
MB 180-218666/1-A	Method Blank	Total/NA	Solid	3541	
LCS 180-218666/2-A	Lab Control Sample	Total/NA	Solid	3541	

GC Semi VOA (Continued)

Cleanup Batch: 218720

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68622-3	WB6-7, S3, C 072617	Total/NA	Solid	3665A	218666
180-68622-6	WB6-7, S4, C 072617	Total/NA	Solid	3665A	218666

Cleanup Batch: 218721

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68622-3	WB6-7, S3, C 072617	Total/NA	Solid	3660B	218720
180-68622-6	WB6-7, S4, C 072617	Total/NA	Solid	3660B	218720

Analysis Batch: 218951

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68622-3	WB6-7, S3, C 072617	Total/NA	Solid	8082A	218721
180-68622-6	WB6-7, S4, C 072617	Total/NA	Solid	8082A	218721
MB 180-218666/1-A	Method Blank	Total/NA	Solid	8082A	218666
LCS 180-218666/2-A	Lab Control Sample	Total/NA	Solid	8082A	218666

Metals

Prep Batch: 218386

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68622-3	WB6-7, S3, C 072617	Total/NA	Solid	7471B	
180-68622-6	WB6-7, S4, C 072617	Total/NA	Solid	7471B	
MB 180-218386/1-A	Method Blank	Total/NA	Solid	7471B	
LCS 180-218386/2-A	Lab Control Sample	Total/NA	Solid	7471B	
180-68622-3 MS	WB6-7, S3, C 072617	Total/NA	Solid	7471B	
180-68622-3 MSD	WB6-7, S3, C 072617	Total/NA	Solid	7471B	

Prep Batch: 218412

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68622-3	WB6-7, S3, C 072617	Total/NA	Solid	3050B	
180-68622-6	WB6-7, S4, C 072617	Total/NA	Solid	3050B	
MB 180-218412/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 180-218412/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Analysis Batch: 218639

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68622-3	WB6-7, S3, C 072617	Total/NA	Solid	7471B	218386
180-68622-6	WB6-7, S4, C 072617	Total/NA	Solid	7471B	218386
MB 180-218386/1-A	Method Blank	Total/NA	Solid	7471B	218386
LCS 180-218386/2-A	Lab Control Sample	Total/NA	Solid	7471B	218386
180-68622-3 MS	WB6-7, S3, C 072617	Total/NA	Solid	7471B	218386
180-68622-3 MSD	WB6-7, S3, C 072617	Total/NA	Solid	7471B	218386

Analysis Batch: 218674

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68622-3	WB6-7, S3, C 072617	Total/NA	Solid	6010C	218412
180-68622-6	WB6-7, S4, C 072617	Total/NA	Solid	6010C	218412
MB 180-218412/1-A	Method Blank	Total/NA	Solid	6010C	218412
LCS 180-218412/2-A	Lab Control Sample	Total/NA	Solid	6010C	218412

QC Association Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68622-1

General Chemistry

Analysis Batch: 218418

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68622-1	WB6-7, S3, A 072617	Total/NA	Solid	2540G	
180-68622-2	WB6-7, S3, B 072617	Total/NA	Solid	2540G	
180-68622-3	WB6-7, S3, C 072617	Total/NA	Solid	2540G	
180-68622-4	WB6-7, S4, A 072617	Total/NA	Solid	2540G	
180-68622-5	WB6-7, S4, B 072617	Total/NA	Solid	2540G	
180-68622-6	WB6-7, S4, C 072617	Total/NA	Solid	2540G	
180-68622-3 DU	WB6-7, S3, C 072617	Total/NA	Solid	2540G	

Prep Batch: 218907

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68622-3	WB6-7, S3, C 072617	Total/NA	Solid	9010C	
180-68622-6	WB6-7, S4, C 072617	Total/NA	Solid	9010C	
MB 180-218907/4-A	Method Blank	Total/NA	Solid	9010C	
HLCS 180-218907/2-A	Lab Control Sample	Total/NA	Solid	9010C	
LCS 180-218907/3-A	Lab Control Sample	Total/NA	Solid	9010C	
LLCS 180-218907/1-A	Lab Control Sample	Total/NA	Solid	9010C	
180-68622-3 MS	WB6-7, S3, C 072617	Total/NA	Solid	9010C	
180-68622-3 MSD	WB6-7, S3, C 072617	Total/NA	Solid	9010C	

Analysis Batch: 219021

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68622-3	WB6-7, S3, C 072617	Total/NA	Solid	9014	218907
180-68622-6	WB6-7, S4, C 072617	Total/NA	Solid	9014	218907
MB 180-218907/4-A	Method Blank	Total/NA	Solid	9014	218907
HLCS 180-218907/2-A	Lab Control Sample	Total/NA	Solid	9014	218907
LCS 180-218907/3-A	Lab Control Sample	Total/NA	Solid	9014	218907
LLCS 180-218907/1-A	Lab Control Sample	Total/NA	Solid	9014	218907
180-68622-3 MS	WB6-7, S3, C 072617	Total/NA	Solid	9014	218907
180-68622-3 MSD	WB6-7, S3, C 072617	Total/NA	Solid	9014	218907

TestAmerica Pittsburgh
301 Alpha Drive RIDC Park
Pittsburgh, PA 15238
Phone (412) 963-7058 Fax (412) 963-2468

Chain of Custody Reco

180-68622 Chain of Custody

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Ellen Buelow	Lab PM: Dunlap, Da\	COC No: 180-38494-8381.1
Client Contact: Ashwin Ranna; Aron Krasnopoler	Phone: 412-552-4758	E-Mail: david.dunlap@testamericainc.com	Page: Page/ of 1
Company: Geosyntec Consultants, Inc.			Job #:
Address: Penn Center West One, Suite 402 1 Penn Center West Drive	Due Date Requested:		
City: Pittsburgh	TAT Requested (days): 1 day		
State, Zip: PA, 15276			
Phone:	PO #: MN0832B		
Email: aranna@geosyntec.com; Akrasnopoler@geosyntec.com	WO #:		
Project Name: Former Sperry Remington Site - North IRM	Project #: 18013464		
Site: Elmira NY	SSOW#:		

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - VOA-Select List	6010C, 7471B, 9014 - Select ICP Metals, Mercury, Cyanide	8082A, 8270D, PCBs, Select BNA	8260C - VOA-Select List (Trip Blanks only)	TCLP RCRA METALS	TCLP SEMI VOA	TCLP VOC	PCB 8082A	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	A						
WB6-7,S3,A 072617	072617	13:45	G	Solid	N	N	X								4	
WB6-7,S3,B 072617	072617	13:40	G	Solid	N	N	X								4	
WB6-7,S3,C 072617	072617	13:50	C	Solid	N	N		X	X						2	
WB6-7,S4,A 072617	072617	15:00	G	Solid	N	N	X								4	
WB6-7,S4,B 072617	072617	15:05	G	Solid	N	N	X								4	
WB6-7,S4,C 072617	072617	15:10	C	Solid	N	N		X	X						2	
WB5-6,S1,A 072617	072617	16:40	G	Solid	N	Y							X		6	MS/MSD 12
WB5-6,S1,C 072617	072617	16:55	C	Solid	N	Y					X	X		X	9	Perform MS/MSD 13
TRIP BLANK #1	072617	—	W	Solid	N	N				X					2	
				Solid												
				Solid												

RUSH

Possible Hazard Identification
☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☑ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	Ellen Buelow	07/26/2017	Geosyntec		7/27/17 0800	TAPitt
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: △ Yes △ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 180-68622-1

Login Number: 68622
List Number: 1
Creator: Neri, Tom

List Source: TestAmerica Pittsburgh

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

TestAmerica Job ID: 180-68716-1
Client Project/Site: Former Sperry Remington Site - North IRM

For:
Geosyntec Consultants, Inc.
10211 Wincopin Circle
4'th Floor
Columbia, Maryland 21044

Attn: Mr. Aron Krasnopoler

Authorized for release by:
8/7/2017 9:26:31 AM

David Dunlap, Senior Project Manager
(412)963-2432
david.dunlap@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Job ID: 180-68716-1

Laboratory: TestAmerica Pittsburgh

Narrative

Job Narrative
180-68716-1

Receipt
The samples were received on 7/29/2017 9:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 0.6º C.

The following volatile sample was received with small air bubbles approximately 6 mm diameter in each of the vials: TRIP BLANK #1 (180-68716-12).

GC/MS VOA
Method(s) 8260C: The continuing calibration verification (CCV) analyzed in batch 180-218535 was below method criteria for the following analyte: vinyl chloride. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte is considered estimated.

Method(s) 8260C: The continuing calibration verification (CCV) analyzed in batch 180-218552 was above method criteria for the following analyte: vinyl chloride. As the CCV was high and vinyl chloride was not detected in the associated samples, the results were reported.

Method(s) 8260C: The continuing calibration verification (CCV) analyzed in 180-218566 was above method criteria for the following analytes: 1,1,1-trichloroethane, 1,2-dichloroethane, and n-butylbenzene. As the CCV was high and these analytes were not detected in the associated samples, the results were reported.

Method(s) 8260C: The following analytes recovered above the control limits for the laboratory control sample (LCS) associated with analytical batch 180-218535: 1,1,1-trichloroethane and carbon tetrachloride. The recoveries in the laboratory control sample duplicate (LCSD) were within the control limits. As the recoveries were high and these analytes were not detected in the associated samples, the results were reported.

Method(s) 8260C: The following analyte recovered above the control limits for the laboratory control sample (LCS) associated with analytical batch 180-218566: 1,2-dichloroethane. As the recovery was high and 1,2-dichloroethane was not detected in the associated samples, the results were reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method(s) 8270D LL: The following sample was diluted to bring the concentration of target analytes within the calibration range: WB3-4, S1, C 072817 (180-68716-3). Elevated reporting limits (RLs) are provided.

Method(s) 8270D LL: The following sample was diluted due to the nature of the sample matrix: DUPE 18 (180-68716-11). Elevated reporting limits (RLs) are provided.

Method(s) 8270D LL: The continuing calibration verification (CCV) analyzed in batch 180-218855 was above method criteria for the following analytes: 1,4-dioxane and pyridine. As the CCV was high and these analytes were not detected in the associated samples, the results were reported.

Method(s) 8270D LL: The continuing calibration verification (CCV) analyzed in batch 180-219005 was above method criteria for the following analytes: hexachlorobutadiene and pyridine. As the CCV was high and these analytes were not detected in the associated samples, the results were reported.

Method(s) 8270D LL: The continuing calibration verification (CCV) analyzed in batch 180-219005 was below method criteria for the following analyte: benzo[g,h,i]perylene. A CCV standard at or below the reporting limit (RL) was analyzed with the affected sample and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte is considered estimated.

Job ID: 180-68716-1 (Continued)

Laboratory: TestAmerica Pittsburgh (Continued)

Method(s) 8270D LL: The matrix spike/matrix spike duplicate (MS/MSD) of sample WB3-4, S1, C 072817 (180-68716-3) had several recoveries and RPD between the spikes outside of the above the control limits. The recoveries of the laboratory control sample (LCS) were within the control limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA

Method(s) 8082A: The continuing calibration verifications (CCVs) analyzed in batch 180-218956 were above criteria for arcolors 1016, 1248, and 1254 (CCV 180-218956/4, CCV 180-218956/5, and CCV 180-218956/13) on column RTX-CLP2. All results in the associated samples were reported from column RTX-CLP1, which met criteria. The % difference between the sample results on both columns was <40%.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

Method(s) 6010C: The low level continuing calibration verification (CCVL 180-218816/64) recovered above the control limit for selenium (131%, with limits of 70%-130%). As the CCVL was high and the associated samples had selenium either not detected or detected at a concentration below the reporting limit, the results were reported.

Method(s) 6010C: The matrix spike duplicate (MSD) recovery of sample WB3-4, S1, C 072817 (180-68716-3) was outside of the control limits for copper and lead. The recoveries of the matrix spike (MS) and laboratory control sample (LCS) were within the control limits.

Method(s) 7471B: The matrix spike/matrix spike duplicate (MS/MSD) recoveries of sample WB3-4, S1, C 072817 (180-68716-3) were above the control limits for mercury. The RPD between the spikes and the recovery of the laboratory control sample (LCS) were within the control limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Definitions/Glossary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68716-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance limits.
E	Result exceeded calibration range.
F2	MS/MSD RPD exceeds control limits
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
F1	MS and/or MSD Recovery is outside acceptance limits.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc. TestAmerica Job ID: 180-68716-1
Project/Site: Former Sperry Remington Site - North IRM

Laboratory: TestAmerica Pittsburgh

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	11182	03-31-18

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
2540G		Solid	Percent Moisture
2540G		Solid	Percent Solids
8270D LL	3541	Solid	1,4-Dioxane

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68716-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-68716-1	WB3-4, S1, A 072817	Solid	07/28/17 12:15	07/29/17 09:00
180-68716-2	WB3-4, S1, B 072817	Solid	07/28/17 12:25	07/29/17 09:00
180-68716-3	WB3-4, S1, C 072817	Solid	07/28/17 12:30	07/29/17 09:00
180-68716-4	WB3-4, S2, A 072817	Solid	07/28/17 14:50	07/29/17 09:00
180-68716-5	WB3-4, S2, B 072817	Solid	07/28/17 14:55	07/29/17 09:00
180-68716-6	WB3-4, S2, C 072817	Solid	07/28/17 15:05	07/29/17 09:00
180-68716-7	WB3-4, S3, A 072817	Solid	07/28/17 16:00	07/29/17 09:00
180-68716-8	WB3-4, S3, B 072817	Solid	07/28/17 16:05	07/29/17 09:00
180-68716-9	WB3-4, S3, C 072817	Solid	07/28/17 16:15	07/29/17 09:00
180-68716-10	DUPE 19	Solid	07/28/17 00:00	07/29/17 09:00
180-68716-11	DUPE 18	Solid	07/28/17 00:00	07/29/17 09:00
180-68716-12	TRIP BLANK #1	Water	07/28/17 00:00	07/29/17 09:00

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68716-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL PIT
8260C	Volatile Organic Compounds (GC/MS)	SW846	TAL PIT
8270D LL	Semivolatile Organic Compounds by GC/MS - Low Level	SW846	TAL PIT
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL PIT
6010C	Metals (ICP)	SW846	TAL PIT
7471B	Mercury (CVAA)	SW846	TAL PIT
2540G	SM 2540G	SM22	TAL PIT
9014	Cyanide	SW846	TAL PIT

Protocol References:

SM22 = SM22

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68716-1

Client Sample ID: WB3-4, S1, A 072817
Date Collected: 07/28/17 12:15
Date Received: 07/29/17 09:00

Lab Sample ID: 180-68716-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218626	07/31/17 12:31	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: WB3-4, S1, A 072817
Date Collected: 07/28/17 12:15
Date Received: 07/29/17 09:00

Lab Sample ID: 180-68716-1
Matrix: Solid
Percent Solids: 88.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.3577 g	5 mL	218540	07/30/17 08:10	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	218535	07/30/17 18:10	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: WB3-4, S1, B 072817
Date Collected: 07/28/17 12:25
Date Received: 07/29/17 09:00

Lab Sample ID: 180-68716-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218626	07/31/17 12:31	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: WB3-4, S1, B 072817
Date Collected: 07/28/17 12:25
Date Received: 07/29/17 09:00

Lab Sample ID: 180-68716-2
Matrix: Solid
Percent Solids: 88.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.6065 g	5 mL	218540	07/30/17 08:10	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	218535	07/30/17 18:34	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: WB3-4, S1, C 072817
Date Collected: 07/28/17 12:30
Date Received: 07/29/17 09:00

Lab Sample ID: 180-68716-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218626	07/31/17 12:31	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: WB3-4, S1, C 072817
Date Collected: 07/28/17 12:30
Date Received: 07/29/17 09:00

Lab Sample ID: 180-68716-3
Matrix: Solid
Percent Solids: 90.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.4 g	0.5 mL	218811	08/02/17 03:48	BAP	TAL PIT

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68716-1

Client Sample ID: WB3-4, S1, C 072817

Lab Sample ID: 180-68716-3
Date Collected: 07/28/17 12:30
Matrix: Solid
Date Received: 07/29/17 09:00
Percent Solids: 90.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8270D LL		4	1 mL	1 mL	218855	08/02/17 13:54	DLF	TAL PIT
	Instrument ID: CH71									
Total/NA	Prep	3541	DL		15.4 g	0.5 mL	218811	08/02/17 03:48	BAP	TAL PIT
Total/NA	Analysis	8270D LL	DL	20	1 mL	1 mL	219005	08/03/17 16:14	DLF	TAL PIT
	Instrument ID: CH71									
Total/NA	Prep	3541			15.3 g	20.0 mL	218813	08/02/17 03:57	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	218880	08/02/17 11:31	CMR	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	218881	08/02/17 11:33	CMR	TAL PIT
Total/NA	Analysis	8082A		1			218956	08/03/17 11:39	JMO	TAL PIT
	Instrument ID: CHGC16									
Total/NA	Prep	3050B			0.97 g	100 mL	218614	07/31/17 10:55	CRM	TAL PIT
Total/NA	Analysis	6010C		1			218816	08/01/17 09:26	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.58 g	100 mL	218684	08/01/17 06:50	RJR	TAL PIT
Total/NA	Analysis	7471B		1			218849	08/02/17 06:54	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.02 g	50 mL	218907	08/02/17 13:35	JAS	TAL PIT
Total/NA	Analysis	9014		1			219021	08/03/17 11:24	JAS	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: WB3-4, S2, A 072817

Lab Sample ID: 180-68716-4
Date Collected: 07/28/17 14:50
Matrix: Solid
Date Received: 07/29/17 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218626	07/31/17 12:31	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: WB3-4, S2, A 072817

Lab Sample ID: 180-68716-4
Date Collected: 07/28/17 14:50
Matrix: Solid
Date Received: 07/29/17 09:00
Percent Solids: 90.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.792 g	5 mL	218570	07/31/17 05:29	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	218566	07/31/17 13:49	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: WB3-4, S2, B 072817

Lab Sample ID: 180-68716-5
Date Collected: 07/28/17 14:55
Matrix: Solid
Date Received: 07/29/17 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218626	07/31/17 12:31	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68716-1

Client Sample ID: WB3-4, S2, B 072817
Date Collected: 07/28/17 14:55
Date Received: 07/29/17 09:00

Lab Sample ID: 180-68716-5
Matrix: Solid
Percent Solids: 90.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.6632 g	5 mL	218570	07/31/17 05:29	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	218566	07/31/17 14:11	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: WB3-4, S2, C 072817
Date Collected: 07/28/17 15:05
Date Received: 07/29/17 09:00

Lab Sample ID: 180-68716-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218626	07/31/17 12:31	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: WB3-4, S2, C 072817
Date Collected: 07/28/17 15:05
Date Received: 07/29/17 09:00

Lab Sample ID: 180-68716-6
Matrix: Solid
Percent Solids: 89.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.1 g	0.5 mL	218811	08/02/17 03:48	BAP	TAL PIT
Total/NA	Analysis	8270D LL		1	1 mL	1 mL	218855	08/02/17 17:06	DLF	TAL PIT
	Instrument ID: CH71									
Total/NA	Prep	3541			15.4 g	20.0 mL	218813	08/02/17 03:57	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	218880	08/02/17 11:31	CMR	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	218881	08/02/17 11:33	CMR	TAL PIT
Total/NA	Analysis	8082A		1			218956	08/03/17 12:00	JMO	TAL PIT
	Instrument ID: CHGC16									
Total/NA	Prep	3050B			0.99 g	100 mL	218614	07/31/17 10:55	CRM	TAL PIT
Total/NA	Analysis	6010C		1			218816	08/01/17 09:51	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.63 g	100 mL	218684	08/01/17 06:50	RJR	TAL PIT
Total/NA	Analysis	7471B		1			218849	08/02/17 07:00	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.01 g	50 mL	218907	08/02/17 13:35	JAS	TAL PIT
Total/NA	Analysis	9014		1			219021	08/03/17 11:26	JAS	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: WB3-4, S3, A 072817
Date Collected: 07/28/17 16:00
Date Received: 07/29/17 09:00

Lab Sample ID: 180-68716-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218626	07/31/17 12:31	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: WB3-4, S3, A 072817

Lab Sample ID: 180-68716-7
Date Collected: 07/28/17 16:00
Matrix: Solid
Date Received: 07/29/17 09:00
Percent Solids: 87.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.3763 g	5 mL	218570	07/31/17 05:29	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	218566	07/31/17 14:34	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: WB3-4, S3, B 072817

Lab Sample ID: 180-68716-8
Date Collected: 07/28/17 16:05
Matrix: Solid
Date Received: 07/29/17 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218626	07/31/17 12:31	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: WB3-4, S3, B 072817

Lab Sample ID: 180-68716-8
Date Collected: 07/28/17 16:05
Matrix: Solid
Date Received: 07/29/17 09:00
Percent Solids: 89.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.4944 g	5 mL	218570	07/31/17 05:29	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	218566	07/31/17 14:57	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: WB3-4, S3, C 072817

Lab Sample ID: 180-68716-9
Date Collected: 07/28/17 16:15
Matrix: Solid
Date Received: 07/29/17 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218626	07/31/17 12:31	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: WB3-4, S3, C 072817

Lab Sample ID: 180-68716-9
Date Collected: 07/28/17 16:15
Matrix: Solid
Date Received: 07/29/17 09:00
Percent Solids: 88.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	0.5 mL	218811	08/02/17 03:48	BAP	TAL PIT
Total/NA	Analysis	8270D LL		1	1 mL	1 mL	218855	08/02/17 17:33	DLF	TAL PIT
	Instrument ID: CH71									
Total/NA	Prep	3541			15.2 g	20.0 mL	218813	08/02/17 03:57	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	218880	08/02/17 11:31	CMR	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	218881	08/02/17 11:33	CMR	TAL PIT
Total/NA	Analysis	8082A		1			218956	08/03/17 12:18	JMO	TAL PIT
	Instrument ID: CHGC16									
Total/NA	Prep	3050B			0.95 g	100 mL	218614	07/31/17 10:55	CRM	TAL PIT

Client Sample ID: WB3-4, S3, C 072817

Lab Sample ID: 180-68716-9
Date Collected: 07/28/17 16:15
Matrix: Solid
Date Received: 07/29/17 09:00
Percent Solids: 88.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	6010C		1			218816	08/01/17 10:06	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.61 g	100 mL	218684	08/01/17 06:50	RJR	TAL PIT
Total/NA	Analysis	7471B		1			218849	08/02/17 07:02	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.000 g	50 mL	218907	08/02/17 13:35	JAS	TAL PIT
Total/NA	Analysis	9014		1			219021	08/03/17 11:28	JAS	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: DUPE 19

Lab Sample ID: 180-68716-10
Date Collected: 07/28/17 00:00
Matrix: Solid
Date Received: 07/29/17 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218618	07/31/17 11:44	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: DUPE 19

Lab Sample ID: 180-68716-10
Date Collected: 07/28/17 00:00
Matrix: Solid
Date Received: 07/29/17 09:00
Percent Solids: 88.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.4114 g	5 mL	218570	07/31/17 05:29	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	218566	07/31/17 15:19	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: DUPE 18

Lab Sample ID: 180-68716-11
Date Collected: 07/28/17 00:00
Matrix: Solid
Date Received: 07/29/17 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218618	07/31/17 11:44	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: DUPE 18

Lab Sample ID: 180-68716-11
Date Collected: 07/28/17 00:00
Matrix: Solid
Date Received: 07/29/17 09:00
Percent Solids: 90.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.5 g	0.5 mL	218811	08/02/17 03:48	BAP	TAL PIT
Total/NA	Analysis	8270D LL		4	1 mL	1 mL	218855	08/02/17 18:00	DLF	TAL PIT
	Instrument ID: CH71									
Total/NA	Prep	3541			15.1 g	20.0 mL	218813	08/02/17 03:57	BAP	TAL PIT

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68716-1

Client Sample ID: DUPE 18

Date Collected: 07/28/17 00:00
Date Received: 07/29/17 09:00

Lab Sample ID: 180-68716-11

Matrix: Solid
Percent Solids: 90.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Cleanup	3665A			2 mL	2 mL	218880	08/02/17 11:31	CMR	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	218881	08/02/17 11:33	CMR	TAL PIT
Total/NA	Analysis	8082A		1			218956	08/03/17 12:38	JMO	TAL PIT
	Instrument ID: CHGC16									
Total/NA	Prep	3050B			1.04 g	100 mL	218614	07/31/17 10:55	CRM	TAL PIT
Total/NA	Analysis	6010C		1			218816	08/01/17 10:11	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.57 g	100 mL	218684	08/01/17 06:50	RJR	TAL PIT
Total/NA	Analysis	7471B		1			218849	08/02/17 07:04	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.01 g	50 mL	218907	08/02/17 13:35	JAS	TAL PIT
Total/NA	Analysis	9014		1			219021	08/03/17 11:30	JAS	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: TRIP BLANK #1

Date Collected: 07/28/17 00:00
Date Received: 07/29/17 09:00

Lab Sample ID: 180-68716-12

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	218552	07/31/17 08:32	FBB	TAL PIT
	Instrument ID: CHHP5									

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68716-1

Analyst References:

Lab: TAL PIT

Batch Type: Cleanup

CMR = Carl Reagle

Batch Type: Prep

BAP = Brian Pino

CRM = Caitlin McEvoy

JAS = Joshua Schmidt

KLG = Kathy Gordon

RJR = Ron Rosenbaum

Batch Type: Analysis

DLF = Donald Ferguson

FBB = Frank Bungard

JAS = Joshua Schmidt

JMO = John Oravec

JTL = Justin Landry

KLG = Kathy Gordon

RJG = Rob Good

RJR = Ron Rosenbaum

Client Sample ID: WB3-4, S1, A 072817

Lab Sample ID: 180-68716-1
Date Collected: 07/28/17 12:15
Matrix: Solid
Date Received: 07/29/17 09:00
Percent Solids: 88.4

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.018	0.0028	mg/Kg	☼	07/30/17 08:10	07/30/17 18:10	1
Benzene	ND		0.0044	0.0017	mg/Kg	☼	07/30/17 08:10	07/30/17 18:10	1
2-Butanone (MEK)	ND		0.0044	0.0026	mg/Kg	☼	07/30/17 08:10	07/30/17 18:10	1
Carbon tetrachloride	ND	*	0.0044	0.0030	mg/Kg	☼	07/30/17 08:10	07/30/17 18:10	1
Chlorobenzene	ND		0.0044	0.0014	mg/Kg	☼	07/30/17 08:10	07/30/17 18:10	1
Chloroform	ND		0.0044	0.0019	mg/Kg	☼	07/30/17 08:10	07/30/17 18:10	1
cis-1,2-Dichloroethene	ND		0.0044	0.0014	mg/Kg	☼	07/30/17 08:10	07/30/17 18:10	1
1,2-Dichlorobenzene	ND		0.0044	0.0036	mg/Kg	☼	07/30/17 08:10	07/30/17 18:10	1
1,3-Dichlorobenzene	ND		0.0044	0.0014	mg/Kg	☼	07/30/17 08:10	07/30/17 18:10	1
1,4-Dichlorobenzene	ND		0.0044	0.00091	mg/Kg	☼	07/30/17 08:10	07/30/17 18:10	1
1,1-Dichloroethane	ND		0.0044	0.0016	mg/Kg	☼	07/30/17 08:10	07/30/17 18:10	1
1,2-Dichloroethane	ND		0.0044	0.0013	mg/Kg	☼	07/30/17 08:10	07/30/17 18:10	1
1,1-Dichloroethene	ND		0.0044	0.0025	mg/Kg	☼	07/30/17 08:10	07/30/17 18:10	1
Ethylbenzene	ND		0.0044	0.0019	mg/Kg	☼	07/30/17 08:10	07/30/17 18:10	1
Methylene Chloride	ND		0.0044	0.0021	mg/Kg	☼	07/30/17 08:10	07/30/17 18:10	1
Methyl tert-butyl ether	ND		0.0044	0.0033	mg/Kg	☼	07/30/17 08:10	07/30/17 18:10	1
n-Butylbenzene	ND		0.0044	0.0034	mg/Kg	☼	07/30/17 08:10	07/30/17 18:10	1
N-Propylbenzene	ND		0.0044	0.0019	mg/Kg	☼	07/30/17 08:10	07/30/17 18:10	1
sec-Butylbenzene	ND		0.0044	0.0022	mg/Kg	☼	07/30/17 08:10	07/30/17 18:10	1
tert-Butylbenzene	ND		0.0044	0.0016	mg/Kg	☼	07/30/17 08:10	07/30/17 18:10	1
Tetrachloroethene	ND		0.0044	0.0018	mg/Kg	☼	07/30/17 08:10	07/30/17 18:10	1
Toluene	ND		0.0044	0.0015	mg/Kg	☼	07/30/17 08:10	07/30/17 18:10	1
trans-1,2-Dichloroethene	ND		0.0044	0.0023	mg/Kg	☼	07/30/17 08:10	07/30/17 18:10	1
1,1,1-Trichloroethane	ND	*	0.0044	0.0022	mg/Kg	☼	07/30/17 08:10	07/30/17 18:10	1
Trichloroethene	ND		0.0044	0.0013	mg/Kg	☼	07/30/17 08:10	07/30/17 18:10	1
1,2,4-Trimethylbenzene	ND		0.0044	0.0012	mg/Kg	☼	07/30/17 08:10	07/30/17 18:10	1
1,3,5-Trimethylbenzene	ND		0.0044	0.0015	mg/Kg	☼	07/30/17 08:10	07/30/17 18:10	1
Vinyl chloride	ND		0.0044	0.0033	mg/Kg	☼	07/30/17 08:10	07/30/17 18:10	1
Xylenes, Total	ND		0.0089	0.0038	mg/Kg	☼	07/30/17 08:10	07/30/17 18:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*63 - 120*	*07/30/17 08:10*	*07/30/17 18:10*	*1*
Dibromofluoromethane (Surr)	*101*		*68 - 121*	*07/30/17 08:10*	*07/30/17 18:10*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*52 - 124*	*07/30/17 08:10*	*07/30/17 18:10*	*1*
Toluene-d8 (Surr)	*113*		*72 - 127*	*07/30/17 08:10*	*07/30/17 18:10*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**11.6**		0.1	0.1	%			07/31/17 12:31	1
Percent Solids	**88.4**		0.1	0.1	%			07/31/17 12:31	1

Client Sample ID: WB3-4, S1, B 072817

Lab Sample ID: 180-68716-2
Date Collected: 07/28/17 12:25
Matrix: Solid
Date Received: 07/29/17 09:00
Percent Solids: 88.3

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.020	0.0032	mg/Kg	☼	07/30/17 08:10	07/30/17 18:34	1
Benzene	ND		0.0050	0.0020	mg/Kg	☼	07/30/17 08:10	07/30/17 18:34	1
2-Butanone (MEK)	ND		0.0050	0.0029	mg/Kg	☼	07/30/17 08:10	07/30/17 18:34	1

Client Sample ID: WB3-4, S1, B 072817 — Lab Sample ID: 180-68716-2

Date Collected: 07/28/17 12:25 — **Matrix: Solid**
Date Received: 07/29/17 09:00 — **Percent Solids: 88.3**

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	ND	*	0.0050	0.0033	mg/Kg	☼	07/30/17 08:10	07/30/17 18:34	1
Chlorobenzene	ND		0.0050	0.0016	mg/Kg	☼	07/30/17 08:10	07/30/17 18:34	1
Chloroform	ND		0.0050	0.0021	mg/Kg	☼	07/30/17 08:10	07/30/17 18:34	1
cis-1,2-Dichloroethene	ND		0.0050	0.0016	mg/Kg	☼	07/30/17 08:10	07/30/17 18:34	1
1,2-Dichlorobenzene	ND		0.0050	0.0041	mg/Kg	☼	07/30/17 08:10	07/30/17 18:34	1
1,3-Dichlorobenzene	ND		0.0050	0.0016	mg/Kg	☼	07/30/17 08:10	07/30/17 18:34	1
1,4-Dichlorobenzene	ND		0.0050	0.0010	mg/Kg	☼	07/30/17 08:10	07/30/17 18:34	1
1,1-Dichloroethane	ND		0.0050	0.0018	mg/Kg	☼	07/30/17 08:10	07/30/17 18:34	1
1,2-Dichloroethane	ND		0.0050	0.0015	mg/Kg	☼	07/30/17 08:10	07/30/17 18:34	1
1,1-Dichloroethene	ND		0.0050	0.0029	mg/Kg	☼	07/30/17 08:10	07/30/17 18:34	1
Ethylbenzene	ND		0.0050	0.0022	mg/Kg	☼	07/30/17 08:10	07/30/17 18:34	1
Methylene Chloride	ND		0.0050	0.0024	mg/Kg	☼	07/30/17 08:10	07/30/17 18:34	1
Methyl tert-butyl ether	ND		0.0050	0.0037	mg/Kg	☼	07/30/17 08:10	07/30/17 18:34	1
n-Butylbenzene	ND		0.0050	0.0038	mg/Kg	☼	07/30/17 08:10	07/30/17 18:34	1
N-Propylbenzene	ND		0.0050	0.0021	mg/Kg	☼	07/30/17 08:10	07/30/17 18:34	1
sec-Butylbenzene	ND		0.0050	0.0025	mg/Kg	☼	07/30/17 08:10	07/30/17 18:34	1
tert-Butylbenzene	ND		0.0050	0.0018	mg/Kg	☼	07/30/17 08:10	07/30/17 18:34	1
Tetrachloroethene	ND		0.0050	0.0020	mg/Kg	☼	07/30/17 08:10	07/30/17 18:34	1
Toluene	ND		0.0050	0.0017	mg/Kg	☼	07/30/17 08:10	07/30/17 18:34	1
trans-1,2-Dichloroethene	ND		0.0050	0.0026	mg/Kg	☼	07/30/17 08:10	07/30/17 18:34	1
1,1,1-Trichloroethane	ND	*	0.0050	0.0025	mg/Kg	☼	07/30/17 08:10	07/30/17 18:34	1
Trichloroethene	ND		0.0050	0.0015	mg/Kg	☼	07/30/17 08:10	07/30/17 18:34	1
1,2,4-Trimethylbenzene	ND		0.0050	0.0014	mg/Kg	☼	07/30/17 08:10	07/30/17 18:34	1
1,3,5-Trimethylbenzene	ND		0.0050	0.0017	mg/Kg	☼	07/30/17 08:10	07/30/17 18:34	1
Vinyl chloride	ND		0.0050	0.0037	mg/Kg	☼	07/30/17 08:10	07/30/17 18:34	1
Xylenes, Total	ND		0.010	0.0043	mg/Kg	☼	07/30/17 08:10	07/30/17 18:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*63 - 120*	*07/30/17 08:10*	*07/30/17 18:34*	*1*
Dibromofluoromethane (Surr)	*104*		*68 - 121*	*07/30/17 08:10*	*07/30/17 18:34*	*1*
1,2-Dichloroethane-d4 (Surr)	*110*		*52 - 124*	*07/30/17 08:10*	*07/30/17 18:34*	*1*
Toluene-d8 (Surr)	*122*		*72 - 127*	*07/30/17 08:10*	*07/30/17 18:34*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**11.7**		0.1	0.1	%			07/31/17 12:31	1
Percent Solids	**88.3**		0.1	0.1	%			07/31/17 12:31	1

Client Sample ID: WB3-4, S1, C 072817 — Lab Sample ID: 180-68716-3

Date Collected: 07/28/17 12:30 — **Matrix: Solid**
Date Received: 07/29/17 09:00 — **Percent Solids: 90.2**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.15**		0.029	0.0097	mg/Kg	☼	08/02/17 03:48	08/02/17 13:54	4
Acenaphthylene	**0.82**	**F1**	0.029	0.0098	mg/Kg	☼	08/02/17 03:48	08/02/17 13:54	4
Anthracene	**2.6**	**F1**	0.029	0.011	mg/Kg	☼	08/02/17 03:48	08/02/17 13:54	4
Benzo[a]anthracene	**4.9**		0.029	0.011	mg/Kg	☼	08/02/17 03:48	08/02/17 13:54	4
Benzo[a]pyrene	**3.6**		0.029	0.012	mg/Kg	☼	08/02/17 03:48	08/02/17 13:54	4
Benzo[b]fluoranthene	**4.8**		0.029	0.012	mg/Kg	☼	08/02/17 03:48	08/02/17 13:54	4

Client Sample ID: WB3-4, S1, C 072817
Date Collected: 07/28/17 12:30
Date Received: 07/29/17 09:00

Lab Sample ID: 180-68716-3
Matrix: Solid
Percent Solids: 90.2

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	2.9		0.029	0.012	mg/Kg	☼	08/02/17 03:48	08/02/17 13:54	4
Benzo[k]fluoranthene	1.5	F1	0.029	0.010	mg/Kg	☼	08/02/17 03:48	08/02/17 13:54	4
Chrysene	3.7		0.029	0.011	mg/Kg	☼	08/02/17 03:48	08/02/17 13:54	4
Dibenz(a,h)anthracene	0.61	F1	0.029	0.012	mg/Kg	☼	08/02/17 03:48	08/02/17 13:54	4
Dibenzofuran	0.54	F1	0.14	0.012	mg/Kg	☼	08/02/17 03:48	08/02/17 13:54	4
1,4-Dioxane	ND		0.29	0.022	mg/Kg	☼	08/02/17 03:48	08/02/17 13:54	4
Fluoranthene	8.5	E	0.029	0.011	mg/Kg	☼	08/02/17 03:48	08/02/17 13:54	4
Fluorene	0.40	F1	0.029	0.010	mg/Kg	☼	08/02/17 03:48	08/02/17 13:54	4
Hexachlorobenzene	ND		0.029	0.012	mg/Kg	☼	08/02/17 03:48	08/02/17 13:54	4
Indeno[1,2,3-cd]pyrene	2.6	F1	0.029	0.011	mg/Kg	☼	08/02/17 03:48	08/02/17 13:54	4
2-Methylphenol	ND		0.14	0.013	mg/Kg	☼	08/02/17 03:48	08/02/17 13:54	4
Methylphenol, 3 & 4	0.025	J	0.14	0.013	mg/Kg	☼	08/02/17 03:48	08/02/17 13:54	4
Naphthalene	0.73	F1	0.029	0.010	mg/Kg	☼	08/02/17 03:48	08/02/17 13:54	4
Pentachlorophenol	ND		0.73	0.27	mg/Kg	☼	08/02/17 03:48	08/02/17 13:54	4
Phenanthrene	10	E	0.029	0.012	mg/Kg	☼	08/02/17 03:48	08/02/17 13:54	4
Phenol	0.022	J	0.14	0.019	mg/Kg	☼	08/02/17 03:48	08/02/17 13:54	4
Pyrene	8.7	E	0.029	0.013	mg/Kg	☼	08/02/17 03:48	08/02/17 13:54	4
Hexachloroethane	ND		140	10	ug/Kg	☼	08/02/17 03:48	08/02/17 13:54	4
Nitrobenzene	ND		290	11	ug/Kg	☼	08/02/17 03:48	08/02/17 13:54	4
Hexachlorobutadiene	ND		29	9.1	ug/Kg	☼	08/02/17 03:48	08/02/17 13:54	4
2,4,5-Trichlorophenol	ND		140	14	ug/Kg	☼	08/02/17 03:48	08/02/17 13:54	4
2,4,6-Trichlorophenol	ND		140	13	ug/Kg	☼	08/02/17 03:48	08/02/17 13:54	4
2,4-Dinitrotoluene	ND		140	19	ug/Kg	☼	08/02/17 03:48	08/02/17 13:54	4
Pyridine	ND	F1 F2	140	14	ug/Kg	☼	08/02/17 03:48	08/02/17 13:54	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*68*		*42 - 100*	*08/02/17 03:48*	*08/02/17 13:54*	*4*
2-Fluorophenol (Surr)	*62*		*21 - 107*	*08/02/17 03:48*	*08/02/17 13:54*	*4*
Nitrobenzene-d5 (Surr)	*73*		*35 - 109*	*08/02/17 03:48*	*08/02/17 13:54*	*4*
Phenol-d5 (Surr)	*57*		*29 - 105*	*08/02/17 03:48*	*08/02/17 13:54*	*4*
Terphenyl-d14 (Surr)	*70*		*36 - 113*	*08/02/17 03:48*	*08/02/17 13:54*	*4*
2,4,6-Tribromophenol (Surr)	*72*		*20 - 134*	*08/02/17 03:48*	*08/02/17 13:54*	*4*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.14		0.14	0.048	mg/Kg	☼	08/02/17 03:48	08/03/17 16:14	20
Acenaphthylene	0.69		0.14	0.049	mg/Kg	☼	08/02/17 03:48	08/03/17 16:14	20
Anthracene	2.6		0.14	0.053	mg/Kg	☼	08/02/17 03:48	08/03/17 16:14	20
Benzo[a]anthracene	4.3		0.14	0.057	mg/Kg	☼	08/02/17 03:48	08/03/17 16:14	20
Benzo[a]pyrene	3.5		0.14	0.060	mg/Kg	☼	08/02/17 03:48	08/03/17 16:14	20
Benzo[b]fluoranthene	4.3		0.14	0.062	mg/Kg	☼	08/02/17 03:48	08/03/17 16:14	20
Benzo[g,h,i]perylene	3.0		0.14	0.062	mg/Kg	☼	08/02/17 03:48	08/03/17 16:14	20
Benzo[k]fluoranthene	1.8		0.14	0.050	mg/Kg	☼	08/02/17 03:48	08/03/17 16:14	20
Chrysene	3.8		0.14	0.056	mg/Kg	☼	08/02/17 03:48	08/03/17 16:14	20
Dibenz(a,h)anthracene	0.71		0.14	0.060	mg/Kg	☼	08/02/17 03:48	08/03/17 16:14	20
Dibenzofuran	0.52	J	0.71	0.058	mg/Kg	☼	08/02/17 03:48	08/03/17 16:14	20
1,4-Dioxane	ND		1.4	0.11	mg/Kg	☼	08/02/17 03:48	08/03/17 16:14	20
Fluoranthene	8.4		0.14	0.057	mg/Kg	☼	08/02/17 03:48	08/03/17 16:14	20
Fluorene	0.41		0.14	0.051	mg/Kg	☼	08/02/17 03:48	08/03/17 16:14	20
Hexachlorobenzene	ND		0.14	0.058	mg/Kg	☼	08/02/17 03:48	08/03/17 16:14	20

Client Sample ID: WB3-4, S1, C 072817
Date Collected: 07/28/17 12:30
Date Received: 07/29/17 09:00

Lab Sample ID: 180-68716-3
Matrix: Solid
Percent Solids: 90.2

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	**2.6**		0.14	0.056	mg/Kg	☼	08/02/17 03:48	08/03/17 16:14	20
2-Methylphenol	ND		0.71	0.064	mg/Kg	☼	08/02/17 03:48	08/03/17 16:14	20
Methylphenol, 3 & 4	ND		0.71	0.064	mg/Kg	☼	08/02/17 03:48	08/03/17 16:14	20
Naphthalene	**0.74**		0.14	0.052	mg/Kg	☼	08/02/17 03:48	08/03/17 16:14	20
Pentachlorophenol	ND		3.7	1.4	mg/Kg	☼	08/02/17 03:48	08/03/17 16:14	20
Phenanthrene	**8.3**		0.14	0.060	mg/Kg	☼	08/02/17 03:48	08/03/17 16:14	20
Phenol	ND		0.71	0.097	mg/Kg	☼	08/02/17 03:48	08/03/17 16:14	20
Pyrene	**9.3**		0.14	0.064	mg/Kg	☼	08/02/17 03:48	08/03/17 16:14	20
Hexachloroethane	ND		710	52	ug/Kg	☼	08/02/17 03:48	08/03/17 16:14	20
Nitrobenzene	ND		1400	55	ug/Kg	☼	08/02/17 03:48	08/03/17 16:14	20
Hexachlorobutadiene	ND		140	45	ug/Kg	☼	08/02/17 03:48	08/03/17 16:14	20
2,4,5-Trichlorophenol	ND		710	68	ug/Kg	☼	08/02/17 03:48	08/03/17 16:14	20
2,4,6-Trichlorophenol	ND		710	63	ug/Kg	☼	08/02/17 03:48	08/03/17 16:14	20
2,4-Dinitrotoluene	ND		710	95	ug/Kg	☼	08/02/17 03:48	08/03/17 16:14	20
Pyridine	ND		710	69	ug/Kg	☼	08/02/17 03:48	08/03/17 16:14	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*65*		*42 - 100*	*08/02/17 03:48*	*08/03/17 16:14*	*20*
2-Fluorophenol (Surr)	*55*		*21 - 107*	*08/02/17 03:48*	*08/03/17 16:14*	*20*
Nitrobenzene-d5 (Surr)	*70*		*35 - 109*	*08/02/17 03:48*	*08/03/17 16:14*	*20*
Phenol-d5 (Surr)	*59*		*29 - 105*	*08/02/17 03:48*	*08/03/17 16:14*	*20*
Terphenyl-d14 (Surr)	*85*		*36 - 113*	*08/02/17 03:48*	*08/03/17 16:14*	*20*
2,4,6-Tribromophenol (Surr)	*86*		*20 - 134*	*08/02/17 03:48*	*08/03/17 16:14*	*20*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.018	0.0096	mg/Kg	☼	08/02/17 03:57	08/03/17 11:39	1
PCB-1221	ND		0.018	0.0094	mg/Kg	☼	08/02/17 03:57	08/03/17 11:39	1
PCB-1232	ND		0.018	0.0072	mg/Kg	☼	08/02/17 03:57	08/03/17 11:39	1
PCB-1242	ND		0.018	0.014	mg/Kg	☼	08/02/17 03:57	08/03/17 11:39	1
PCB-1248	**0.78**		0.018	0.0086	mg/Kg	☼	08/02/17 03:57	08/03/17 11:39	1
PCB-1254	**0.29**		0.018	0.0079	mg/Kg	☼	08/02/17 03:57	08/03/17 11:39	1
PCB-1260	**0.049**		0.018	0.012	mg/Kg	☼	08/02/17 03:57	08/03/17 11:39	1
PCB-1262	ND		0.018	0.013	mg/Kg	☼	08/02/17 03:57	08/03/17 11:39	1
PCB-1268	ND		0.018	0.0055	mg/Kg	☼	08/02/17 03:57	08/03/17 11:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*58*		*23 - 150*	*08/02/17 03:57*	*08/03/17 11:39*	*1*
DCB Decachlorobiphenyl (Surr)	*62*		*23 - 150*	*08/02/17 03:57*	*08/03/17 11:39*	*1*
Tetrachloro-m-xylene (Surr)	*69*		*27 - 138*	*08/02/17 03:57*	*08/03/17 11:39*	*1*
Tetrachloro-m-xylene (Surr)	*70*		*27 - 138*	*08/02/17 03:57*	*08/03/17 11:39*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**7.8**		1.1	0.50	mg/Kg	☼	07/31/17 10:55	08/01/17 09:26	1
Barium	**71**		23	6.1	mg/Kg	☼	07/31/17 10:55	08/01/17 09:26	1
Beryllium	**0.33**	**J**	0.46	0.12	mg/Kg	☼	07/31/17 10:55	08/01/17 09:26	1
Cadmium	**0.14**	**J**	0.57	0.13	mg/Kg	☼	07/31/17 10:55	08/01/17 09:26	1
Chromium	**10**		0.57	0.15	mg/Kg	☼	07/31/17 10:55	08/01/17 09:26	1
Copper	**56**	**F1**	2.9	0.88	mg/Kg	☼	07/31/17 10:55	08/01/17 09:26	1

Client Sample ID: WB3-4, S1, C 072817 — Lab Sample ID: 180-68716-3

Date Collected: 07/28/17 12:30 — Matrix: Solid
Date Received: 07/29/17 09:00 — Percent Solids: 90.2

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	55	F1	1.1	0.37	mg/Kg	☼	07/31/17 10:55	08/01/17 09:26	1
Manganese	390		1.7	0.46	mg/Kg	☼	07/31/17 10:55	08/01/17 09:26	1
Nickel	26		4.6	1.0	mg/Kg	☼	07/31/17 10:55	08/01/17 09:26	1
Selenium	0.51	J ^	1.1	0.45	mg/Kg	☼	07/31/17 10:55	08/01/17 09:26	1
Silver	ND		0.57	0.19	mg/Kg	☼	07/31/17 10:55	08/01/17 09:26	1
Zinc	65		2.3	1.2	mg/Kg	☼	07/31/17 10:55	08/01/17 09:26	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.037	J F1	0.038	0.0085	mg/Kg	☼	08/01/17 06:50	08/02/17 06:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.8		0.1	0.1	%			07/31/17 12:31	1
Percent Solids	90.2		0.1	0.1	%			07/31/17 12:31	1
Cyanide, Total	1.1		0.54	0.17	mg/Kg	☼	08/02/17 13:35	08/03/17 11:24	1

Client Sample ID: WB3-4, S2, A 072817 — Lab Sample ID: 180-68716-4

Date Collected: 07/28/17 14:50 — Matrix: Solid
Date Received: 07/29/17 09:00 — Percent Solids: 90.2

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.019	0.0030	mg/Kg	☼	07/31/17 05:29	07/31/17 13:49	1
Benzene	ND		0.0048	0.0019	mg/Kg	☼	07/31/17 05:29	07/31/17 13:49	1
2-Butanone (MEK)	ND		0.0048	0.0028	mg/Kg	☼	07/31/17 05:29	07/31/17 13:49	1
Carbon tetrachloride	ND		0.0048	0.0032	mg/Kg	☼	07/31/17 05:29	07/31/17 13:49	1
Chlorobenzene	ND		0.0048	0.0015	mg/Kg	☼	07/31/17 05:29	07/31/17 13:49	1
Chloroform	ND		0.0048	0.0020	mg/Kg	☼	07/31/17 05:29	07/31/17 13:49	1
cis-1,2-Dichloroethene	ND		0.0048	0.0015	mg/Kg	☼	07/31/17 05:29	07/31/17 13:49	1
1,2-Dichlorobenzene	ND		0.0048	0.0039	mg/Kg	☼	07/31/17 05:29	07/31/17 13:49	1
1,3-Dichlorobenzene	ND		0.0048	0.0015	mg/Kg	☼	07/31/17 05:29	07/31/17 13:49	1
1,4-Dichlorobenzene	ND		0.0048	0.00098	mg/Kg	☼	07/31/17 05:29	07/31/17 13:49	1
1,1-Dichloroethane	ND		0.0048	0.0017	mg/Kg	☼	07/31/17 05:29	07/31/17 13:49	1
1,2-Dichloroethane	ND	*	0.0048	0.0014	mg/Kg	☼	07/31/17 05:29	07/31/17 13:49	1
1,1-Dichloroethene	ND		0.0048	0.0027	mg/Kg	☼	07/31/17 05:29	07/31/17 13:49	1
Ethylbenzene	ND		0.0048	0.0021	mg/Kg	☼	07/31/17 05:29	07/31/17 13:49	1
Methylene Chloride	ND		0.0048	0.0023	mg/Kg	☼	07/31/17 05:29	07/31/17 13:49	1
Methyl tert-butyl ether	ND		0.0048	0.0035	mg/Kg	☼	07/31/17 05:29	07/31/17 13:49	1
n-Butylbenzene	ND		0.0048	0.0036	mg/Kg	☼	07/31/17 05:29	07/31/17 13:49	1
N-Propylbenzene	ND		0.0048	0.0020	mg/Kg	☼	07/31/17 05:29	07/31/17 13:49	1
sec-Butylbenzene	ND		0.0048	0.0023	mg/Kg	☼	07/31/17 05:29	07/31/17 13:49	1
tert-Butylbenzene	ND		0.0048	0.0018	mg/Kg	☼	07/31/17 05:29	07/31/17 13:49	1
Tetrachloroethene	ND		0.0048	0.0019	mg/Kg	☼	07/31/17 05:29	07/31/17 13:49	1
Toluene	ND		0.0048	0.0016	mg/Kg	☼	07/31/17 05:29	07/31/17 13:49	1
trans-1,2-Dichloroethene	ND		0.0048	0.0024	mg/Kg	☼	07/31/17 05:29	07/31/17 13:49	1
1,1,1-Trichloroethane	ND		0.0048	0.0024	mg/Kg	☼	07/31/17 05:29	07/31/17 13:49	1
Trichloroethene	ND		0.0048	0.0014	mg/Kg	☼	07/31/17 05:29	07/31/17 13:49	1
1,2,4-Trimethylbenzene	ND		0.0048	0.0013	mg/Kg	☼	07/31/17 05:29	07/31/17 13:49	1
1,3,5-Trimethylbenzene	ND		0.0048	0.0016	mg/Kg	☼	07/31/17 05:29	07/31/17 13:49	1

Client Sample ID: WB3-4, S2, A 072817 — Lab Sample ID: 180-68716-4

Date Collected: 07/28/17 14:50 — Matrix: Solid
Date Received: 07/29/17 09:00 — Percent Solids: 90.2

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		0.0048	0.0035	mg/Kg	☼	07/31/17 05:29	07/31/17 13:49	1
Xylenes, Total	ND		0.0096	0.0041	mg/Kg	☼	07/31/17 05:29	07/31/17 13:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*63 - 120*	*07/31/17 05:29*	*07/31/17 13:49*	*1*
Dibromofluoromethane (Surr)	*98*		*68 - 121*	*07/31/17 05:29*	*07/31/17 13:49*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*52 - 124*	*07/31/17 05:29*	*07/31/17 13:49*	*1*
Toluene-d8 (Surr)	*111*		*72 - 127*	*07/31/17 05:29*	*07/31/17 13:49*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.8**		0.1	0.1	%			07/31/17 12:31	1
Percent Solids	**90.2**		0.1	0.1	%			07/31/17 12:31	1

Client Sample ID: WB3-4, S2, B 072817 — Lab Sample ID: 180-68716-5

Date Collected: 07/28/17 14:55 — Matrix: Solid
Date Received: 07/29/17 09:00 — Percent Solids: 90.4

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.017	0.0026	mg/Kg	☼	07/31/17 05:29	07/31/17 14:11	1
Benzene	ND		0.0041	0.0016	mg/Kg	☼	07/31/17 05:29	07/31/17 14:11	1
2-Butanone (MEK)	ND		0.0041	0.0024	mg/Kg	☼	07/31/17 05:29	07/31/17 14:11	1
Carbon tetrachloride	ND		0.0041	0.0028	mg/Kg	☼	07/31/17 05:29	07/31/17 14:11	1
Chlorobenzene	ND		0.0041	0.0013	mg/Kg	☼	07/31/17 05:29	07/31/17 14:11	1
Chloroform	ND		0.0041	0.0018	mg/Kg	☼	07/31/17 05:29	07/31/17 14:11	1
cis-1,2-Dichloroethene	ND		0.0041	0.0013	mg/Kg	☼	07/31/17 05:29	07/31/17 14:11	1
1,2-Dichlorobenzene	ND		0.0041	0.0033	mg/Kg	☼	07/31/17 05:29	07/31/17 14:11	1
1,3-Dichlorobenzene	ND		0.0041	0.0013	mg/Kg	☼	07/31/17 05:29	07/31/17 14:11	1
1,4-Dichlorobenzene	ND		0.0041	0.00085	mg/Kg	☼	07/31/17 05:29	07/31/17 14:11	1
1,1-Dichloroethane	ND		0.0041	0.0015	mg/Kg	☼	07/31/17 05:29	07/31/17 14:11	1
1,2-Dichloroethane	ND	*	0.0041	0.0012	mg/Kg	☼	07/31/17 05:29	07/31/17 14:11	1
1,1-Dichloroethene	ND		0.0041	0.0024	mg/Kg	☼	07/31/17 05:29	07/31/17 14:11	1
Ethylbenzene	ND		0.0041	0.0018	mg/Kg	☼	07/31/17 05:29	07/31/17 14:11	1
Methylene Chloride	ND		0.0041	0.0020	mg/Kg	☼	07/31/17 05:29	07/31/17 14:11	1
Methyl tert-butyl ether	ND		0.0041	0.0031	mg/Kg	☼	07/31/17 05:29	07/31/17 14:11	1
n-Butylbenzene	ND		0.0041	0.0031	mg/Kg	☼	07/31/17 05:29	07/31/17 14:11	1
N-Propylbenzene	ND		0.0041	0.0018	mg/Kg	☼	07/31/17 05:29	07/31/17 14:11	1
sec-Butylbenzene	ND		0.0041	0.0020	mg/Kg	☼	07/31/17 05:29	07/31/17 14:11	1
tert-Butylbenzene	ND		0.0041	0.0015	mg/Kg	☼	07/31/17 05:29	07/31/17 14:11	1
Tetrachloroethene	ND		0.0041	0.0017	mg/Kg	☼	07/31/17 05:29	07/31/17 14:11	1
Toluene	ND		0.0041	0.0014	mg/Kg	☼	07/31/17 05:29	07/31/17 14:11	1
trans-1,2-Dichloroethene	ND		0.0041	0.0021	mg/Kg	☼	07/31/17 05:29	07/31/17 14:11	1
1,1,1-Trichloroethane	ND		0.0041	0.0021	mg/Kg	☼	07/31/17 05:29	07/31/17 14:11	1
Trichloroethene	ND		0.0041	0.0012	mg/Kg	☼	07/31/17 05:29	07/31/17 14:11	1
1,2,4-Trimethylbenzene	ND		0.0041	0.0011	mg/Kg	☼	07/31/17 05:29	07/31/17 14:11	1
1,3,5-Trimethylbenzene	ND		0.0041	0.0014	mg/Kg	☼	07/31/17 05:29	07/31/17 14:11	1
Vinyl chloride	ND		0.0041	0.0030	mg/Kg	☼	07/31/17 05:29	07/31/17 14:11	1
Xylenes, Total	ND		0.0083	0.0036	mg/Kg	☼	07/31/17 05:29	07/31/17 14:11	1

Client Sample ID: WB3-4, S2, B 072817

Lab Sample ID: 180-68716-5

Date Collected: 07/28/17 14:55
Matrix: Solid
Date Received: 07/29/17 09:00
Percent Solids: 90.4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*63 - 120*	*07/31/17 05:29*	*07/31/17 14:11*	*1*
Dibromofluoromethane (Surr)	*94*		*68 - 121*	*07/31/17 05:29*	*07/31/17 14:11*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*52 - 124*	*07/31/17 05:29*	*07/31/17 14:11*	*1*
Toluene-d8 (Surr)	*105*		*72 - 127*	*07/31/17 05:29*	*07/31/17 14:11*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.6**		0.1	0.1	%			07/31/17 12:31	1
Percent Solids	**90.4**		0.1	0.1	%			07/31/17 12:31	1

Client Sample ID: WB3-4, S2, C 072817

Lab Sample ID: 180-68716-6

Date Collected: 07/28/17 15:05
Matrix: Solid
Date Received: 07/29/17 09:00
Percent Solids: 89.4

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.0070**	**J**	0.0074	0.0025	mg/Kg	☼	08/02/17 03:48	08/02/17 17:06	1
Acenaphthylene	**0.033**		0.0074	0.0025	mg/Kg	☼	08/02/17 03:48	08/02/17 17:06	1
Anthracene	**0.043**		0.0074	0.0027	mg/Kg	☼	08/02/17 03:48	08/02/17 17:06	1
Benzo[a]anthracene	**0.23**		0.0074	0.0029	mg/Kg	☼	08/02/17 03:48	08/02/17 17:06	1
Benzo[a]pyrene	**0.23**		0.0074	0.0031	mg/Kg	☼	08/02/17 03:48	08/02/17 17:06	1
Benzo[b]fluoranthene	**0.30**		0.0074	0.0032	mg/Kg	☼	08/02/17 03:48	08/02/17 17:06	1
Benzo[g,h,i]perylene	**0.23**		0.0074	0.0032	mg/Kg	☼	08/02/17 03:48	08/02/17 17:06	1
Benzo[k]fluoranthene	**0.11**		0.0074	0.0026	mg/Kg	☼	08/02/17 03:48	08/02/17 17:06	1
Chrysene	**0.22**		0.0074	0.0029	mg/Kg	☼	08/02/17 03:48	08/02/17 17:06	1
Dibenz(a,h)anthracene	**0.042**		0.0074	0.0031	mg/Kg	☼	08/02/17 03:48	08/02/17 17:06	1
Dibenzofuran	**0.019**	**J**	0.037	0.0030	mg/Kg	☼	08/02/17 03:48	08/02/17 17:06	1
1,4-Dioxane	ND		0.074	0.0056	mg/Kg	☼	08/02/17 03:48	08/02/17 17:06	1
Fluoranthene	**0.32**		0.0074	0.0029	mg/Kg	☼	08/02/17 03:48	08/02/17 17:06	1
Fluorene	**0.011**		0.0074	0.0026	mg/Kg	☼	08/02/17 03:48	08/02/17 17:06	1
Hexachlorobenzene	ND		0.0074	0.0030	mg/Kg	☼	08/02/17 03:48	08/02/17 17:06	1
Indeno[1,2,3-cd]pyrene	**0.19**		0.0074	0.0029	mg/Kg	☼	08/02/17 03:48	08/02/17 17:06	1
2-Methylphenol	ND		0.037	0.0033	mg/Kg	☼	08/02/17 03:48	08/02/17 17:06	1
Methylphenol, 3 & 4	ND		0.037	0.0033	mg/Kg	☼	08/02/17 03:48	08/02/17 17:06	1
Naphthalene	**0.049**		0.0074	0.0027	mg/Kg	☼	08/02/17 03:48	08/02/17 17:06	1
Pentachlorophenol	ND		0.19	0.070	mg/Kg	☼	08/02/17 03:48	08/02/17 17:06	1
Phenanthrene	**0.15**		0.0074	0.0031	mg/Kg	☼	08/02/17 03:48	08/02/17 17:06	1
Phenol	ND		0.037	0.0050	mg/Kg	☼	08/02/17 03:48	08/02/17 17:06	1
Pyrene	**0.33**		0.0074	0.0033	mg/Kg	☼	08/02/17 03:48	08/02/17 17:06	1
Hexachloroethane	ND		37	2.7	ug/Kg	☼	08/02/17 03:48	08/02/17 17:06	1
Nitrobenzene	ND		74	2.8	ug/Kg	☼	08/02/17 03:48	08/02/17 17:06	1
Hexachlorobutadiene	ND		7.4	2.3	ug/Kg	☼	08/02/17 03:48	08/02/17 17:06	1
2,4,5-Trichlorophenol	ND		37	3.5	ug/Kg	☼	08/02/17 03:48	08/02/17 17:06	1
2,4,6-Trichlorophenol	ND		37	3.2	ug/Kg	☼	08/02/17 03:48	08/02/17 17:06	1
2,4-Dinitrotoluene	ND		37	4.9	ug/Kg	☼	08/02/17 03:48	08/02/17 17:06	1
Pyridine	ND		37	3.5	ug/Kg	☼	08/02/17 03:48	08/02/17 17:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*67*		*42 - 100*	*08/02/17 03:48*	*08/02/17 17:06*	*1*
2-Fluorophenol (Surr)	*61*		*21 - 107*	*08/02/17 03:48*	*08/02/17 17:06*	*1*
Nitrobenzene-d5 (Surr)	*68*		*35 - 109*	*08/02/17 03:48*	*08/02/17 17:06*	*1*

Client Sample ID: WB3-4, S2, C 072817
Date Collected: 07/28/17 15:05
Date Received: 07/29/17 09:00

Lab Sample ID: 180-68716-6
Matrix: Solid
Percent Solids: 89.4

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Phenol-d5 (Surr)	*57*		*29 - 105*	*08/02/17 03:48*	*08/02/17 17:06*	*1*
Terphenyl-d14 (Surr)	*70*		*36 - 113*	*08/02/17 03:48*	*08/02/17 17:06*	*1*
2,4,6-Tribromophenol (Surr)	*77*		*20 - 134*	*08/02/17 03:48*	*08/02/17 17:06*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.018	0.0096	mg/Kg	☼	08/02/17 03:57	08/03/17 12:00	1
PCB-1221	ND		0.018	0.0094	mg/Kg	☼	08/02/17 03:57	08/03/17 12:00	1
PCB-1232	ND		0.018	0.0072	mg/Kg	☼	08/02/17 03:57	08/03/17 12:00	1
PCB-1242	ND		0.018	0.014	mg/Kg	☼	08/02/17 03:57	08/03/17 12:00	1
PCB-1248	**4.4**		0.018	0.0087	mg/Kg	☼	08/02/17 03:57	08/03/17 12:00	1
PCB-1254	**1.4**		0.018	0.0080	mg/Kg	☼	08/02/17 03:57	08/03/17 12:00	1
PCB-1260	**0.18**		0.018	0.012	mg/Kg	☼	08/02/17 03:57	08/03/17 12:00	1
PCB-1262	ND		0.018	0.013	mg/Kg	☼	08/02/17 03:57	08/03/17 12:00	1
PCB-1268	ND		0.018	0.0055	mg/Kg	☼	08/02/17 03:57	08/03/17 12:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*71*		*23 - 150*	*08/02/17 03:57*	*08/03/17 12:00*	*1*
DCB Decachlorobiphenyl (Surr)	*76*		*23 - 150*	*08/02/17 03:57*	*08/03/17 12:00*	*1*
Tetrachloro-m-xylene (Surr)	*86*		*27 - 138*	*08/02/17 03:57*	*08/03/17 12:00*	*1*
Tetrachloro-m-xylene (Surr)	*85*		*27 - 138*	*08/02/17 03:57*	*08/03/17 12:00*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**7.8**		1.1	0.50	mg/Kg	☼	07/31/17 10:55	08/01/17 09:51	1
Barium	**64**		23	6.1	mg/Kg	☼	07/31/17 10:55	08/01/17 09:51	1
Beryllium	**0.33**	**J**	0.45	0.12	mg/Kg	☼	07/31/17 10:55	08/01/17 09:51	1
Cadmium	**0.13**	**J**	0.57	0.13	mg/Kg	☼	07/31/17 10:55	08/01/17 09:51	1
Chromium	**8.8**		0.57	0.15	mg/Kg	☼	07/31/17 10:55	08/01/17 09:51	1
Copper	**63**		2.8	0.87	mg/Kg	☼	07/31/17 10:55	08/01/17 09:51	1
Lead	**37**		1.1	0.37	mg/Kg	☼	07/31/17 10:55	08/01/17 09:51	1
Manganese	**370**		1.7	0.46	mg/Kg	☼	07/31/17 10:55	08/01/17 09:51	1
Nickel	**21**		4.5	1.0	mg/Kg	☼	07/31/17 10:55	08/01/17 09:51	1
Selenium	ND	^	1.1	0.45	mg/Kg	☼	07/31/17 10:55	08/01/17 09:51	1
Silver	ND		0.57	0.19	mg/Kg	☼	07/31/17 10:55	08/01/17 09:51	1
Zinc	**55**		2.3	1.1	mg/Kg	☼	07/31/17 10:55	08/01/17 09:51	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.029**	**J**	0.035	0.0079	mg/Kg	☼	08/01/17 06:50	08/02/17 07:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**10.6**		0.1	0.1	%			07/31/17 12:31	1
Percent Solids	**89.4**		0.1	0.1	%			07/31/17 12:31	1
Cyanide, Total	**1.9**		0.55	0.17	mg/Kg	☼	08/02/17 13:35	08/03/17 11:26	1

Client Sample ID: WB3-4, S3, A 072817 — Lab Sample ID: 180-68716-7

Date Collected: 07/28/17 16:00 — **Matrix: Solid**
Date Received: 07/29/17 09:00 — **Percent Solids: 87.7**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.021	0.0033	mg/Kg	☼	07/31/17 05:29	07/31/17 14:34	1
Benzene	ND		0.0053	0.0021	mg/Kg	☼	07/31/17 05:29	07/31/17 14:34	1
2-Butanone (MEK)	ND		0.0053	0.0031	mg/Kg	☼	07/31/17 05:29	07/31/17 14:34	1
Carbon tetrachloride	ND		0.0053	0.0035	mg/Kg	☼	07/31/17 05:29	07/31/17 14:34	1
Chlorobenzene	ND		0.0053	0.0017	mg/Kg	☼	07/31/17 05:29	07/31/17 14:34	1
Chloroform	ND		0.0053	0.0022	mg/Kg	☼	07/31/17 05:29	07/31/17 14:34	1
cis-1,2-Dichloroethene	ND		0.0053	0.0017	mg/Kg	☼	07/31/17 05:29	07/31/17 14:34	1
1,2-Dichlorobenzene	ND		0.0053	0.0043	mg/Kg	☼	07/31/17 05:29	07/31/17 14:34	1
1,3-Dichlorobenzene	ND		0.0053	0.0017	mg/Kg	☼	07/31/17 05:29	07/31/17 14:34	1
1,4-Dichlorobenzene	ND		0.0053	0.0011	mg/Kg	☼	07/31/17 05:29	07/31/17 14:34	1
1,1-Dichloroethane	ND		0.0053	0.0019	mg/Kg	☼	07/31/17 05:29	07/31/17 14:34	1
1,2-Dichloroethane	ND	*	0.0053	0.0015	mg/Kg	☼	07/31/17 05:29	07/31/17 14:34	1
1,1-Dichloroethene	ND		0.0053	0.0030	mg/Kg	☼	07/31/17 05:29	07/31/17 14:34	1
Ethylbenzene	ND		0.0053	0.0023	mg/Kg	☼	07/31/17 05:29	07/31/17 14:34	1
Methylene Chloride	ND		0.0053	0.0025	mg/Kg	☼	07/31/17 05:29	07/31/17 14:34	1
Methyl tert-butyl ether	ND		0.0053	0.0039	mg/Kg	☼	07/31/17 05:29	07/31/17 14:34	1
n-Butylbenzene	ND		0.0053	0.0040	mg/Kg	☼	07/31/17 05:29	07/31/17 14:34	1
N-Propylbenzene	ND		0.0053	0.0022	mg/Kg	☼	07/31/17 05:29	07/31/17 14:34	1
sec-Butylbenzene	ND		0.0053	0.0026	mg/Kg	☼	07/31/17 05:29	07/31/17 14:34	1
tert-Butylbenzene	ND		0.0053	0.0019	mg/Kg	☼	07/31/17 05:29	07/31/17 14:34	1
Tetrachloroethene	ND		0.0053	0.0021	mg/Kg	☼	07/31/17 05:29	07/31/17 14:34	1
Toluene	ND		0.0053	0.0018	mg/Kg	☼	07/31/17 05:29	07/31/17 14:34	1
trans-1,2-Dichloroethene	ND		0.0053	0.0027	mg/Kg	☼	07/31/17 05:29	07/31/17 14:34	1
1,1,1-Trichloroethane	ND		0.0053	0.0027	mg/Kg	☼	07/31/17 05:29	07/31/17 14:34	1
Trichloroethene	ND		0.0053	0.0016	mg/Kg	☼	07/31/17 05:29	07/31/17 14:34	1
1,2,4-Trimethylbenzene	ND		0.0053	0.0014	mg/Kg	☼	07/31/17 05:29	07/31/17 14:34	1
1,3,5-Trimethylbenzene	ND		0.0053	0.0018	mg/Kg	☼	07/31/17 05:29	07/31/17 14:34	1
Vinyl chloride	ND		0.0053	0.0039	mg/Kg	☼	07/31/17 05:29	07/31/17 14:34	1
Xylenes, Total	ND		0.011	0.0046	mg/Kg	☼	07/31/17 05:29	07/31/17 14:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*63 - 120*	*07/31/17 05:29*	*07/31/17 14:34*	*1*
Dibromofluoromethane (Surr)	*98*		*68 - 121*	*07/31/17 05:29*	*07/31/17 14:34*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*52 - 124*	*07/31/17 05:29*	*07/31/17 14:34*	*1*
Toluene-d8 (Surr)	*109*		*72 - 127*	*07/31/17 05:29*	*07/31/17 14:34*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**12.3**		0.1	0.1	%			07/31/17 12:31	1
Percent Solids	**87.7**		0.1	0.1	%			07/31/17 12:31	1

Client Sample ID: WB3-4, S3, B 072817 — Lab Sample ID: 180-68716-8

Date Collected: 07/28/17 16:05 — **Matrix: Solid**
Date Received: 07/29/17 09:00 — **Percent Solids: 89.2**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.017	0.0027	mg/Kg	☼	07/31/17 05:29	07/31/17 14:57	1
Benzene	ND		0.0043	0.0017	mg/Kg	☼	07/31/17 05:29	07/31/17 14:57	1
2-Butanone (MEK)	ND		0.0043	0.0025	mg/Kg	☼	07/31/17 05:29	07/31/17 14:57	1

Client Sample ID: WB3-4, S3, B 072817 — Lab Sample ID: 180-68716-8

Date Collected: 07/28/17 16:05 — **Matrix: Solid**
Date Received: 07/29/17 09:00 — **Percent Solids: 89.2**

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	ND		0.0043	0.0029	mg/Kg	☼	07/31/17 05:29	07/31/17 14:57	1
Chlorobenzene	ND		0.0043	0.0014	mg/Kg	☼	07/31/17 05:29	07/31/17 14:57	1
Chloroform	ND		0.0043	0.0018	mg/Kg	☼	07/31/17 05:29	07/31/17 14:57	1
cis-1,2-Dichloroethene	ND		0.0043	0.0014	mg/Kg	☼	07/31/17 05:29	07/31/17 14:57	1
1,2-Dichlorobenzene	ND		0.0043	0.0035	mg/Kg	☼	07/31/17 05:29	07/31/17 14:57	1
1,3-Dichlorobenzene	ND		0.0043	0.0014	mg/Kg	☼	07/31/17 05:29	07/31/17 14:57	1
1,4-Dichlorobenzene	ND		0.0043	0.00088	mg/Kg	☼	07/31/17 05:29	07/31/17 14:57	1
1,1-Dichloroethane	ND		0.0043	0.0016	mg/Kg	☼	07/31/17 05:29	07/31/17 14:57	1
1,2-Dichloroethane	ND	*	0.0043	0.0013	mg/Kg	☼	07/31/17 05:29	07/31/17 14:57	1
1,1-Dichloroethene	ND		0.0043	0.0025	mg/Kg	☼	07/31/17 05:29	07/31/17 14:57	1
Ethylbenzene	ND		0.0043	0.0019	mg/Kg	☼	07/31/17 05:29	07/31/17 14:57	1
Methylene Chloride	ND		0.0043	0.0020	mg/Kg	☼	07/31/17 05:29	07/31/17 14:57	1
Methyl tert-butyl ether	ND		0.0043	0.0032	mg/Kg	☼	07/31/17 05:29	07/31/17 14:57	1
n-Butylbenzene	ND		0.0043	0.0033	mg/Kg	☼	07/31/17 05:29	07/31/17 14:57	1
N-Propylbenzene	ND		0.0043	0.0018	mg/Kg	☼	07/31/17 05:29	07/31/17 14:57	1
sec-Butylbenzene	ND		0.0043	0.0021	mg/Kg	☼	07/31/17 05:29	07/31/17 14:57	1
tert-Butylbenzene	ND		0.0043	0.0016	mg/Kg	☼	07/31/17 05:29	07/31/17 14:57	1
Tetrachloroethene	ND		0.0043	0.0017	mg/Kg	☼	07/31/17 05:29	07/31/17 14:57	1
Toluene	ND		0.0043	0.0015	mg/Kg	☼	07/31/17 05:29	07/31/17 14:57	1
trans-1,2-Dichloroethene	ND		0.0043	0.0022	mg/Kg	☼	07/31/17 05:29	07/31/17 14:57	1
1,1,1-Trichloroethane	ND		0.0043	0.0022	mg/Kg	☼	07/31/17 05:29	07/31/17 14:57	1
Trichloroethene	ND		0.0043	0.0013	mg/Kg	☼	07/31/17 05:29	07/31/17 14:57	1
1,2,4-Trimethylbenzene	ND		0.0043	0.0012	mg/Kg	☼	07/31/17 05:29	07/31/17 14:57	1
1,3,5-Trimethylbenzene	ND		0.0043	0.0015	mg/Kg	☼	07/31/17 05:29	07/31/17 14:57	1
Vinyl chloride	ND		0.0043	0.0032	mg/Kg	☼	07/31/17 05:29	07/31/17 14:57	1
Xylenes, Total	ND		0.0086	0.0037	mg/Kg	☼	07/31/17 05:29	07/31/17 14:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*63 - 120*	*07/31/17 05:29*	*07/31/17 14:57*	*1*
Dibromofluoromethane (Surr)	*95*		*68 - 121*	*07/31/17 05:29*	*07/31/17 14:57*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*52 - 124*	*07/31/17 05:29*	*07/31/17 14:57*	*1*
Toluene-d8 (Surr)	*106*		*72 - 127*	*07/31/17 05:29*	*07/31/17 14:57*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**10.8**		0.1	0.1	%			07/31/17 12:31	1
Percent Solids	**89.2**		0.1	0.1	%			07/31/17 12:31	1

Client Sample ID: WB3-4, S3, C 072817 — Lab Sample ID: 180-68716-9

Date Collected: 07/28/17 16:15 — **Matrix: Solid**
Date Received: 07/29/17 09:00 — **Percent Solids: 88.8**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.0041**	**J**	0.0075	0.0025	mg/Kg	☼	08/02/17 03:48	08/02/17 17:33	1
Acenaphthylene	**0.018**		0.0075	0.0025	mg/Kg	☼	08/02/17 03:48	08/02/17 17:33	1
Anthracene	**0.027**		0.0075	0.0028	mg/Kg	☼	08/02/17 03:48	08/02/17 17:33	1
Benzo[a]anthracene	**0.12**		0.0075	0.0030	mg/Kg	☼	08/02/17 03:48	08/02/17 17:33	1
Benzo[a]pyrene	**0.11**		0.0075	0.0031	mg/Kg	☼	08/02/17 03:48	08/02/17 17:33	1
Benzo[b]fluoranthene	**0.18**		0.0075	0.0033	mg/Kg	☼	08/02/17 03:48	08/02/17 17:33	1

Client Sample ID: WB3-4, S3, C 072817 **Lab Sample ID: 180-68716-9**
Date Collected: 07/28/17 16:15 **Matrix: Solid**
Date Received: 07/29/17 09:00 **Percent Solids: 88.8**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	**0.11**		0.0075	0.0033	mg/Kg	☼	08/02/17 03:48	08/02/17 17:33	1
Benzo[k]fluoranthene	**0.049**		0.0075	0.0026	mg/Kg	☼	08/02/17 03:48	08/02/17 17:33	1
Chrysene	**0.13**		0.0075	0.0029	mg/Kg	☼	08/02/17 03:48	08/02/17 17:33	1
Dibenz(a,h)anthracene	**0.024**		0.0075	0.0031	mg/Kg	☼	08/02/17 03:48	08/02/17 17:33	1
Dibenzofuran	**0.014**	**J**	0.037	0.0030	mg/Kg	☼	08/02/17 03:48	08/02/17 17:33	1
1,4-Dioxane	ND		0.075	0.0057	mg/Kg	☼	08/02/17 03:48	08/02/17 17:33	1
Fluoranthene	**0.18**		0.0075	0.0030	mg/Kg	☼	08/02/17 03:48	08/02/17 17:33	1
Fluorene	**0.0066**	**J**	0.0075	0.0027	mg/Kg	☼	08/02/17 03:48	08/02/17 17:33	1
Hexachlorobenzene	ND		0.0075	0.0030	mg/Kg	☼	08/02/17 03:48	08/02/17 17:33	1
Indeno[1,2,3-cd]pyrene	**0.086**		0.0075	0.0029	mg/Kg	☼	08/02/17 03:48	08/02/17 17:33	1
2-Methylphenol	ND		0.037	0.0033	mg/Kg	☼	08/02/17 03:48	08/02/17 17:33	1
Methylphenol, 3 & 4	ND		0.037	0.0033	mg/Kg	☼	08/02/17 03:48	08/02/17 17:33	1
Naphthalene	**0.029**		0.0075	0.0027	mg/Kg	☼	08/02/17 03:48	08/02/17 17:33	1
Pentachlorophenol	ND		0.19	0.071	mg/Kg	☼	08/02/17 03:48	08/02/17 17:33	1
Phenanthrene	**0.10**		0.0075	0.0031	mg/Kg	☼	08/02/17 03:48	08/02/17 17:33	1
Phenol	ND		0.037	0.0051	mg/Kg	☼	08/02/17 03:48	08/02/17 17:33	1
Pyrene	**0.22**		0.0075	0.0033	mg/Kg	☼	08/02/17 03:48	08/02/17 17:33	1
Hexachloroethane	ND		37	2.7	ug/Kg	☼	08/02/17 03:48	08/02/17 17:33	1
Nitrobenzene	ND		75	2.9	ug/Kg	☼	08/02/17 03:48	08/02/17 17:33	1
Hexachlorobutadiene	ND		7.5	2.4	ug/Kg	☼	08/02/17 03:48	08/02/17 17:33	1
2,4,5-Trichlorophenol	ND		37	3.6	ug/Kg	☼	08/02/17 03:48	08/02/17 17:33	1
2,4,6-Trichlorophenol	ND		37	3.3	ug/Kg	☼	08/02/17 03:48	08/02/17 17:33	1
2,4-Dinitrotoluene	ND		37	5.0	ug/Kg	☼	08/02/17 03:48	08/02/17 17:33	1
Pyridine	ND		37	3.6	ug/Kg	☼	08/02/17 03:48	08/02/17 17:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*69*		*42 - 100*	*08/02/17 03:48*	*08/02/17 17:33*	*1*
2-Fluorophenol (Surr)	*58*		*21 - 107*	*08/02/17 03:48*	*08/02/17 17:33*	*1*
Nitrobenzene-d5 (Surr)	*70*		*35 - 109*	*08/02/17 03:48*	*08/02/17 17:33*	*1*
Phenol-d5 (Surr)	*56*		*29 - 105*	*08/02/17 03:48*	*08/02/17 17:33*	*1*
Terphenyl-d14 (Surr)	*68*		*36 - 113*	*08/02/17 03:48*	*08/02/17 17:33*	*1*
2,4,6-Tribromophenol (Surr)	*70*		*20 - 134*	*08/02/17 03:48*	*08/02/17 17:33*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.019	0.0098	mg/Kg	☼	08/02/17 03:57	08/03/17 12:18	1
PCB-1221	ND		0.019	0.0096	mg/Kg	☼	08/02/17 03:57	08/03/17 12:18	1
PCB-1232	ND		0.019	0.0073	mg/Kg	☼	08/02/17 03:57	08/03/17 12:18	1
PCB-1242	ND		0.019	0.015	mg/Kg	☼	08/02/17 03:57	08/03/17 12:18	1
PCB-1248	**2.4**		0.019	0.0088	mg/Kg	☼	08/02/17 03:57	08/03/17 12:18	1
PCB-1254	**0.84**		0.019	0.0081	mg/Kg	☼	08/02/17 03:57	08/03/17 12:18	1
PCB-1260	**0.099**		0.019	0.012	mg/Kg	☼	08/02/17 03:57	08/03/17 12:18	1
PCB-1262	ND		0.019	0.013	mg/Kg	☼	08/02/17 03:57	08/03/17 12:18	1
PCB-1268	ND		0.019	0.0056	mg/Kg	☼	08/02/17 03:57	08/03/17 12:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*64*		*23 - 150*	*08/02/17 03:57*	*08/03/17 12:18*	*1*
DCB Decachlorobiphenyl (Surr)	*70*		*23 - 150*	*08/02/17 03:57*	*08/03/17 12:18*	*1*
Tetrachloro-m-xylene (Surr)	*80*		*27 - 138*	*08/02/17 03:57*	*08/03/17 12:18*	*1*
Tetrachloro-m-xylene (Surr)	*84*		*27 - 138*	*08/02/17 03:57*	*08/03/17 12:18*	*1*

Client Sample ID: WB3-4, S3, C 072817 — Lab Sample ID: 180-68716-9

Date Collected: 07/28/17 16:15 — **Matrix: Solid**
Date Received: 07/29/17 09:00 — **Percent Solids: 88.8**

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.1		1.2	0.52	mg/Kg	☼	07/31/17 10:55	08/01/17 10:06	1
Barium	82		24	6.4	mg/Kg	☼	07/31/17 10:55	08/01/17 10:06	1
Beryllium	0.37	J	0.47	0.12	mg/Kg	☼	07/31/17 10:55	08/01/17 10:06	1
Cadmium	ND		0.59	0.13	mg/Kg	☼	07/31/17 10:55	08/01/17 10:06	1
Chromium	9.6		0.59	0.15	mg/Kg	☼	07/31/17 10:55	08/01/17 10:06	1
Copper	54		3.0	0.91	mg/Kg	☼	07/31/17 10:55	08/01/17 10:06	1
Lead	73		1.2	0.39	mg/Kg	☼	07/31/17 10:55	08/01/17 10:06	1
Manganese	410		1.8	0.48	mg/Kg	☼	07/31/17 10:55	08/01/17 10:06	1
Nickel	21		4.7	1.1	mg/Kg	☼	07/31/17 10:55	08/01/17 10:06	1
Selenium	ND	^	1.2	0.47	mg/Kg	☼	07/31/17 10:55	08/01/17 10:06	1
Silver	ND		0.59	0.20	mg/Kg	☼	07/31/17 10:55	08/01/17 10:06	1
Zinc	62		2.4	1.2	mg/Kg	☼	07/31/17 10:55	08/01/17 10:06	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.027	J	0.037	0.0082	mg/Kg	☼	08/01/17 06:50	08/02/17 07:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	11.2		0.1	0.1	%			07/31/17 12:31	1
Percent Solids	88.8		0.1	0.1	%			07/31/17 12:31	1
Cyanide, Total	1.3		0.56	0.17	mg/Kg	☼	08/02/17 13:35	08/03/17 11:28	1

Client Sample ID: DUPE 19 — Lab Sample ID: 180-68716-10

Date Collected: 07/28/17 00:00 — **Matrix: Solid**
Date Received: 07/29/17 09:00 — **Percent Solids: 88.3**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.021	0.0033	mg/Kg	☼	07/31/17 05:29	07/31/17 15:19	1
Benzene	ND		0.0052	0.0021	mg/Kg	☼	07/31/17 05:29	07/31/17 15:19	1
2-Butanone (MEK)	ND		0.0052	0.0030	mg/Kg	☼	07/31/17 05:29	07/31/17 15:19	1
Carbon tetrachloride	ND		0.0052	0.0035	mg/Kg	☼	07/31/17 05:29	07/31/17 15:19	1
Chlorobenzene	ND		0.0052	0.0016	mg/Kg	☼	07/31/17 05:29	07/31/17 15:19	1
Chloroform	ND		0.0052	0.0022	mg/Kg	☼	07/31/17 05:29	07/31/17 15:19	1
cis-1,2-Dichloroethene	ND		0.0052	0.0016	mg/Kg	☼	07/31/17 05:29	07/31/17 15:19	1
1,2-Dichlorobenzene	ND		0.0052	0.0042	mg/Kg	☼	07/31/17 05:29	07/31/17 15:19	1
1,3-Dichlorobenzene	ND		0.0052	0.0017	mg/Kg	☼	07/31/17 05:29	07/31/17 15:19	1
1,4-Dichlorobenzene	ND		0.0052	0.0011	mg/Kg	☼	07/31/17 05:29	07/31/17 15:19	1
1,1-Dichloroethane	ND		0.0052	0.0019	mg/Kg	☼	07/31/17 05:29	07/31/17 15:19	1
1,2-Dichloroethane	ND	*	0.0052	0.0015	mg/Kg	☼	07/31/17 05:29	07/31/17 15:19	1
1,1-Dichloroethene	ND		0.0052	0.0030	mg/Kg	☼	07/31/17 05:29	07/31/17 15:19	1
Ethylbenzene	ND		0.0052	0.0023	mg/Kg	☼	07/31/17 05:29	07/31/17 15:19	1
Methylene Chloride	ND		0.0052	0.0025	mg/Kg	☼	07/31/17 05:29	07/31/17 15:19	1
Methyl tert-butyl ether	ND		0.0052	0.0039	mg/Kg	☼	07/31/17 05:29	07/31/17 15:19	1
n-Butylbenzene	ND		0.0052	0.0040	mg/Kg	☼	07/31/17 05:29	07/31/17 15:19	1
N-Propylbenzene	ND		0.0052	0.0022	mg/Kg	☼	07/31/17 05:29	07/31/17 15:19	1
sec-Butylbenzene	ND		0.0052	0.0026	mg/Kg	☼	07/31/17 05:29	07/31/17 15:19	1
tert-Butylbenzene	ND		0.0052	0.0019	mg/Kg	☼	07/31/17 05:29	07/31/17 15:19	1
Tetrachloroethene	ND		0.0052	0.0021	mg/Kg	☼	07/31/17 05:29	07/31/17 15:19	1

Client Sample ID: DUPE 19

Date Collected: 07/28/17 00:00
Date Received: 07/29/17 09:00

Lab Sample ID: 180-68716-10

Matrix: Solid
Percent Solids: 88.3

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		0.0052	0.0018	mg/Kg	☼	07/31/17 05:29	07/31/17 15:19	1
trans-1,2-Dichloroethene	ND		0.0052	0.0027	mg/Kg	☼	07/31/17 05:29	07/31/17 15:19	1
1,1,1-Trichloroethane	ND		0.0052	0.0026	mg/Kg	☼	07/31/17 05:29	07/31/17 15:19	1
Trichloroethene	ND		0.0052	0.0016	mg/Kg	☼	07/31/17 05:29	07/31/17 15:19	1
1,2,4-Trimethylbenzene	ND		0.0052	0.0014	mg/Kg	☼	07/31/17 05:29	07/31/17 15:19	1
1,3,5-Trimethylbenzene	ND		0.0052	0.0018	mg/Kg	☼	07/31/17 05:29	07/31/17 15:19	1
Vinyl chloride	ND		0.0052	0.0038	mg/Kg	☼	07/31/17 05:29	07/31/17 15:19	1
Xylenes, Total	ND		0.010	0.0045	mg/Kg	☼	07/31/17 05:29	07/31/17 15:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*63 - 120*	*07/31/17 05:29*	*07/31/17 15:19*	*1*
Dibromofluoromethane (Surr)	*105*		*68 - 121*	*07/31/17 05:29*	*07/31/17 15:19*	*1*
1,2-Dichloroethane-d4 (Surr)	*107*		*52 - 124*	*07/31/17 05:29*	*07/31/17 15:19*	*1*
Toluene-d8 (Surr)	*115*		*72 - 127*	*07/31/17 05:29*	*07/31/17 15:19*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**11.7**		0.1	0.1	%			07/31/17 11:44	1
Percent Solids	**88.3**		0.1	0.1	%			07/31/17 11:44	1

Client Sample ID: DUPE 18

Date Collected: 07/28/17 00:00
Date Received: 07/29/17 09:00

Lab Sample ID: 180-68716-11

Matrix: Solid
Percent Solids: 90.5

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.011**	**J**	0.029	0.0096	mg/Kg	☼	08/02/17 03:48	08/02/17 18:00	4
Acenaphthylene	**0.040**		0.029	0.0097	mg/Kg	☼	08/02/17 03:48	08/02/17 18:00	4
Anthracene	**0.080**		0.029	0.011	mg/Kg	☼	08/02/17 03:48	08/02/17 18:00	4
Benzo[a]anthracene	**0.34**		0.029	0.011	mg/Kg	☼	08/02/17 03:48	08/02/17 18:00	4
Benzo[a]pyrene	**0.30**		0.029	0.012	mg/Kg	☼	08/02/17 03:48	08/02/17 18:00	4
Benzo[b]fluoranthene	**0.41**		0.029	0.012	mg/Kg	☼	08/02/17 03:48	08/02/17 18:00	4
Benzo[g,h,i]perylene	**0.27**		0.029	0.012	mg/Kg	☼	08/02/17 03:48	08/02/17 18:00	4
Benzo[k]fluoranthene	**0.15**		0.029	0.0099	mg/Kg	☼	08/02/17 03:48	08/02/17 18:00	4
Chrysene	**0.31**		0.029	0.011	mg/Kg	☼	08/02/17 03:48	08/02/17 18:00	4
Dibenz(a,h)anthracene	**0.067**		0.029	0.012	mg/Kg	☼	08/02/17 03:48	08/02/17 18:00	4
Dibenzofuran	**0.042**	**J**	0.14	0.011	mg/Kg	☼	08/02/17 03:48	08/02/17 18:00	4
1,4-Dioxane	ND		0.29	0.021	mg/Kg	☼	08/02/17 03:48	08/02/17 18:00	4
Fluoranthene	**0.51**		0.029	0.011	mg/Kg	☼	08/02/17 03:48	08/02/17 18:00	4
Fluorene	**0.016**	**J**	0.029	0.010	mg/Kg	☼	08/02/17 03:48	08/02/17 18:00	4
Hexachlorobenzene	ND		0.029	0.011	mg/Kg	☼	08/02/17 03:48	08/02/17 18:00	4
Indeno[1,2,3-cd]pyrene	**0.23**		0.029	0.011	mg/Kg	☼	08/02/17 03:48	08/02/17 18:00	4
2-Methylphenol	ND		0.14	0.013	mg/Kg	☼	08/02/17 03:48	08/02/17 18:00	4
Methylphenol, 3 & 4	ND		0.14	0.013	mg/Kg	☼	08/02/17 03:48	08/02/17 18:00	4
Naphthalene	**0.096**		0.029	0.010	mg/Kg	☼	08/02/17 03:48	08/02/17 18:00	4
Pentachlorophenol	ND		0.73	0.27	mg/Kg	☼	08/02/17 03:48	08/02/17 18:00	4
Phenanthrene	**0.28**		0.029	0.012	mg/Kg	☼	08/02/17 03:48	08/02/17 18:00	4
Phenol	ND		0.14	0.019	mg/Kg	☼	08/02/17 03:48	08/02/17 18:00	4
Pyrene	**0.62**		0.029	0.013	mg/Kg	☼	08/02/17 03:48	08/02/17 18:00	4
Hexachloroethane	ND		140	10	ug/Kg	☼	08/02/17 03:48	08/02/17 18:00	4

Client Sample ID: DUPE 18
Date Collected: 07/28/17 00:00
Date Received: 07/29/17 09:00

Lab Sample ID: 180-68716-11
Matrix: Solid
Percent Solids: 90.5

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrobenzene	ND		290	11	ug/Kg	☼	08/02/17 03:48	08/02/17 18:00	4
Hexachlorobutadiene	ND		29	9.0	ug/Kg	☼	08/02/17 03:48	08/02/17 18:00	4
2,4,5-Trichlorophenol	ND		140	14	ug/Kg	☼	08/02/17 03:48	08/02/17 18:00	4
2,4,6-Trichlorophenol	ND		140	12	ug/Kg	☼	08/02/17 03:48	08/02/17 18:00	4
2,4-Dinitrotoluene	ND		140	19	ug/Kg	☼	08/02/17 03:48	08/02/17 18:00	4
Pyridine	ND		140	14	ug/Kg	☼	08/02/17 03:48	08/02/17 18:00	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*71*		*42 - 100*	*08/02/17 03:48*	*08/02/17 18:00*	*4*
2-Fluorophenol (Surr)	*62*		*21 - 107*	*08/02/17 03:48*	*08/02/17 18:00*	*4*
Nitrobenzene-d5 (Surr)	*72*		*35 - 109*	*08/02/17 03:48*	*08/02/17 18:00*	*4*
Phenol-d5 (Surr)	*58*		*29 - 105*	*08/02/17 03:48*	*08/02/17 18:00*	*4*
Terphenyl-d14 (Surr)	*100*		*36 - 113*	*08/02/17 03:48*	*08/02/17 18:00*	*4*
2,4,6-Tribromophenol (Surr)	*78*		*20 - 134*	*08/02/17 03:48*	*08/02/17 18:00*	*4*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.018	0.0097	mg/Kg	☼	08/02/17 03:57	08/03/17 12:38	1
PCB-1221	ND		0.018	0.0095	mg/Kg	☼	08/02/17 03:57	08/03/17 12:38	1
PCB-1232	ND		0.018	0.0072	mg/Kg	☼	08/02/17 03:57	08/03/17 12:38	1
PCB-1242	ND		0.018	0.015	mg/Kg	☼	08/02/17 03:57	08/03/17 12:38	1
PCB-1248	**1.4**		0.018	0.0087	mg/Kg	☼	08/02/17 03:57	08/03/17 12:38	1
PCB-1254	**0.48**		0.018	0.0080	mg/Kg	☼	08/02/17 03:57	08/03/17 12:38	1
PCB-1260	**0.072**		0.018	0.012	mg/Kg	☼	08/02/17 03:57	08/03/17 12:38	1
PCB-1262	ND		0.018	0.013	mg/Kg	☼	08/02/17 03:57	08/03/17 12:38	1
PCB-1268	ND		0.018	0.0056	mg/Kg	☼	08/02/17 03:57	08/03/17 12:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*64*		*23 - 150*	*08/02/17 03:57*	*08/03/17 12:38*	*1*
DCB Decachlorobiphenyl (Surr)	*71*		*23 - 150*	*08/02/17 03:57*	*08/03/17 12:38*	*1*
Tetrachloro-m-xylene (Surr)	*77*		*27 - 138*	*08/02/17 03:57*	*08/03/17 12:38*	*1*
Tetrachloro-m-xylene (Surr)	*79*		*27 - 138*	*08/02/17 03:57*	*08/03/17 12:38*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**7.2**		1.1	0.47	mg/Kg	☼	07/31/17 10:55	08/01/17 10:11	1
Barium	**73**		21	5.7	mg/Kg	☼	07/31/17 10:55	08/01/17 10:11	1
Beryllium	**0.32**	**J**	0.43	0.11	mg/Kg	☼	07/31/17 10:55	08/01/17 10:11	1
Cadmium	**0.16**	**J**	0.53	0.12	mg/Kg	☼	07/31/17 10:55	08/01/17 10:11	1
Chromium	**10**		0.53	0.14	mg/Kg	☼	07/31/17 10:55	08/01/17 10:11	1
Copper	**64**		2.7	0.82	mg/Kg	☼	07/31/17 10:55	08/01/17 10:11	1
Lead	**79**		1.1	0.35	mg/Kg	☼	07/31/17 10:55	08/01/17 10:11	1
Manganese	**430**		1.6	0.43	mg/Kg	☼	07/31/17 10:55	08/01/17 10:11	1
Nickel	**33**		4.3	0.96	mg/Kg	☼	07/31/17 10:55	08/01/17 10:11	1
Selenium	ND	^	1.1	0.42	mg/Kg	☼	07/31/17 10:55	08/01/17 10:11	1
Silver	ND		0.53	0.18	mg/Kg	☼	07/31/17 10:55	08/01/17 10:11	1
Zinc	**72**		2.1	1.1	mg/Kg	☼	07/31/17 10:55	08/01/17 10:11	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.039**		0.038	0.0086	mg/Kg	☼	08/01/17 06:50	08/02/17 07:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.5		0.1	0.1	%			07/31/17 11:44	1
Percent Solids	90.5		0.1	0.1	%			07/31/17 11:44	1
Cyanide, Total	0.86		0.55	0.17	mg/Kg	☼	08/02/17 13:35	08/03/17 11:30	1

Client Sample ID: TRIP BLANK #1

Lab Sample ID: 180-68716-12
Date Collected: 07/28/17 00:00
Matrix: Water
Date Received: 07/29/17 09:00

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		5.0	3.1	ug/L			07/31/17 08:32	1
Benzene	ND		1.0	0.18	ug/L			07/31/17 08:32	1
2-Butanone (MEK)	ND		5.0	2.6	ug/L			07/31/17 08:32	1
Carbon tetrachloride	ND		1.0	0.56	ug/L			07/31/17 08:32	1
Chlorobenzene	ND		1.0	0.15	ug/L			07/31/17 08:32	1
Chloroform	ND		1.0	0.27	ug/L			07/31/17 08:32	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			07/31/17 08:32	1
1,2-Dichlorobenzene	ND		1.0	0.23	ug/L			07/31/17 08:32	1
1,3-Dichlorobenzene	ND		1.0	0.21	ug/L			07/31/17 08:32	1
1,4-Dichlorobenzene	ND		1.0	0.24	ug/L			07/31/17 08:32	1
1,1-Dichloroethane	ND		1.0	0.34	ug/L			07/31/17 08:32	1
1,2-Dichloroethane	ND		1.0	0.24	ug/L			07/31/17 08:32	1
1,1-Dichloroethene	ND		1.0	0.32	ug/L			07/31/17 08:32	1
Ethylbenzene	ND		1.0	0.25	ug/L			07/31/17 08:32	1
Methylene Chloride	ND		1.0	0.94	ug/L			07/31/17 08:32	1
Methyl tert-butyl ether	ND		1.0	0.20	ug/L			07/31/17 08:32	1
n-Butylbenzene	ND		1.0	0.22	ug/L			07/31/17 08:32	1
N-Propylbenzene	ND		1.0	0.20	ug/L			07/31/17 08:32	1
sec-Butylbenzene	ND		1.0	0.22	ug/L			07/31/17 08:32	1
tert-Butylbenzene	ND		1.0	0.17	ug/L			07/31/17 08:32	1
Tetrachloroethene	ND		1.0	0.24	ug/L			07/31/17 08:32	1
Toluene	ND		1.0	0.16	ug/L			07/31/17 08:32	1
trans-1,2-Dichloroethene	ND		1.0	0.20	ug/L			07/31/17 08:32	1
1,1,1-Trichloroethane	ND		1.0	0.27	ug/L			07/31/17 08:32	1
Trichloroethene	ND		1.0	0.20	ug/L			07/31/17 08:32	1
1,2,4-Trimethylbenzene	ND		1.0	0.18	ug/L			07/31/17 08:32	1
1,3,5-Trimethylbenzene	ND		1.0	0.17	ug/L			07/31/17 08:32	1
Vinyl chloride	ND		1.0	0.17	ug/L			07/31/17 08:32	1
Xylenes, Total	ND		2.0	0.27	ug/L			07/31/17 08:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*72 - 120*		*07/31/17 08:32*	*1*
Dibromofluoromethane (Surr)	*97*		*77 - 127*		*07/31/17 08:32*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*72 - 134*		*07/31/17 08:32*	*1*
Toluene-d8 (Surr)	*91*		*80 - 120*		*07/31/17 08:32*	*1*

Method: 8260C - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 180-218552/5
Matrix: Water
Analysis Batch: 218552

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		5.0	3.1	ug/L			07/31/17 04:32	1
Benzene	ND		1.0	0.18	ug/L			07/31/17 04:32	1
2-Butanone (MEK)	ND		5.0	2.6	ug/L			07/31/17 04:32	1
Carbon tetrachloride	ND		1.0	0.56	ug/L			07/31/17 04:32	1
Chlorobenzene	ND		1.0	0.15	ug/L			07/31/17 04:32	1
Chloroform	ND		1.0	0.27	ug/L			07/31/17 04:32	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			07/31/17 04:32	1
1,2-Dichlorobenzene	ND		1.0	0.23	ug/L			07/31/17 04:32	1
1,3-Dichlorobenzene	ND		1.0	0.21	ug/L			07/31/17 04:32	1
1,4-Dichlorobenzene	ND		1.0	0.24	ug/L			07/31/17 04:32	1
1,1-Dichloroethane	ND		1.0	0.34	ug/L			07/31/17 04:32	1
1,2-Dichloroethane	ND		1.0	0.24	ug/L			07/31/17 04:32	1
1,1-Dichloroethene	ND		1.0	0.32	ug/L			07/31/17 04:32	1
Ethylbenzene	ND		1.0	0.25	ug/L			07/31/17 04:32	1
Methylene Chloride	ND		1.0	0.94	ug/L			07/31/17 04:32	1
Methyl tert-butyl ether	ND		1.0	0.20	ug/L			07/31/17 04:32	1
n-Butylbenzene	ND		1.0	0.22	ug/L			07/31/17 04:32	1
N-Propylbenzene	ND		1.0	0.20	ug/L			07/31/17 04:32	1
sec-Butylbenzene	ND		1.0	0.22	ug/L			07/31/17 04:32	1
tert-Butylbenzene	ND		1.0	0.17	ug/L			07/31/17 04:32	1
Tetrachloroethene	ND		1.0	0.24	ug/L			07/31/17 04:32	1
Toluene	ND		1.0	0.16	ug/L			07/31/17 04:32	1
trans-1,2-Dichloroethene	ND		1.0	0.20	ug/L			07/31/17 04:32	1
1,1,1-Trichloroethane	ND		1.0	0.27	ug/L			07/31/17 04:32	1
Trichloroethene	ND		1.0	0.20	ug/L			07/31/17 04:32	1
1,2,4-Trimethylbenzene	ND		1.0	0.18	ug/L			07/31/17 04:32	1
1,3,5-Trimethylbenzene	ND		1.0	0.17	ug/L			07/31/17 04:32	1
Vinyl chloride	ND		1.0	0.17	ug/L			07/31/17 04:32	1
Xylenes, Total	ND		2.0	0.27	ug/L			07/31/17 04:32	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*72 - 120*		*07/31/17 04:32*	*1*
Dibromofluoromethane (Surr)	*94*		*77 - 127*		*07/31/17 04:32*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*72 - 134*		*07/31/17 04:32*	*1*
Toluene-d8 (Surr)	*90*		*80 - 120*		*07/31/17 04:32*	*1*

Lab Sample ID: LCS 180-218552/3
Matrix: Water
Analysis Batch: 218552

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	20.0	17.2		ug/L		86	10 - 150
Benzene	10.0	9.67		ug/L		97	80 - 121
2-Butanone (MEK)	20.0	17.0		ug/L		85	41 - 150
Carbon tetrachloride	10.0	9.54		ug/L		95	59 - 145
Chlorobenzene	10.0	9.59		ug/L		96	80 - 120
Chloroform	10.0	9.36		ug/L		94	78 - 122
cis-1,2-Dichloroethene	10.0	9.47		ug/L		95	80 - 120

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 180-218552/3
Matrix: Water
Analysis Batch: 218552

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichlorobenzene	10.0	9.00		ug/L		90	80 - 120
1,3-Dichlorobenzene	10.0	9.27		ug/L		93	80 - 120
1,4-Dichlorobenzene	10.0	9.22		ug/L		92	80 - 120
1,1-Dichloroethane	10.0	9.56		ug/L		96	76 - 126
1,2-Dichloroethane	10.0	9.05		ug/L		91	72 - 126
1,1-Dichloroethene	10.0	10.3		ug/L		103	71 - 122
Ethylbenzene	10.0	9.57		ug/L		96	80 - 123
Methylene Chloride	10.0	9.27		ug/L		93	71 - 129
Methyl tert-butyl ether	10.0	9.28		ug/L		93	68 - 124
n-Butylbenzene	10.0	10.3		ug/L		103	75 - 120
N-Propylbenzene	10.0	9.77		ug/L		98	78 - 121
sec-Butylbenzene	10.0	10.3		ug/L		103	80 - 121
tert-Butylbenzene	10.0	9.81		ug/L		98	79 - 120
Tetrachloroethene	10.0	9.76		ug/L		98	80 - 122
Toluene	10.0	10.3		ug/L		103	80 - 125
trans-1,2-Dichloroethene	10.0	10.0		ug/L		100	80 - 121
1,1,1-Trichloroethane	10.0	9.71		ug/L		97	57 - 128
Trichloroethene	10.0	9.36		ug/L		94	79 - 120
1,2,4-Trimethylbenzene	10.0	9.83		ug/L		98	80 - 120
1,3,5-Trimethylbenzene	10.0	10.2		ug/L		102	80 - 122
Vinyl chloride	10.0	11.1		ug/L		111	61 - 138
Xylenes, Total	20.0	19.6		ug/L		98	80 - 123

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*72 - 120*
Dibromofluoromethane (Surr)	*95*		*77 - 127*
1,2-Dichloroethane-d4 (Surr)	*92*		*72 - 134*
Toluene-d8 (Surr)	*105*		*80 - 120*

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 180-218535/8
Matrix: Solid
Analysis Batch: 218535

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.020	0.0032	mg/Kg			07/30/17 10:59	1
Benzene	ND		0.0050	0.0020	mg/Kg			07/30/17 10:59	1
2-Butanone (MEK)	ND		0.0050	0.0029	mg/Kg			07/30/17 10:59	1
Carbon tetrachloride	ND		0.0050	0.0033	mg/Kg			07/30/17 10:59	1
Chlorobenzene	ND		0.0050	0.0016	mg/Kg			07/30/17 10:59	1
Chloroform	ND		0.0050	0.0021	mg/Kg			07/30/17 10:59	1
cis-1,2-Dichloroethene	ND		0.0050	0.0016	mg/Kg			07/30/17 10:59	1
1,2-Dichlorobenzene	ND		0.0050	0.0040	mg/Kg			07/30/17 10:59	1
1,3-Dichlorobenzene	ND		0.0050	0.0016	mg/Kg			07/30/17 10:59	1
1,4-Dichlorobenzene	ND		0.0050	0.0010	mg/Kg			07/30/17 10:59	1
1,1-Dichloroethane	ND		0.0050	0.0018	mg/Kg			07/30/17 10:59	1
1,2-Dichloroethane	ND		0.0050	0.0015	mg/Kg			07/30/17 10:59	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 180-218535/8
Matrix: Solid
Analysis Batch: 218535

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		0.0050	0.0029	mg/Kg			07/30/17 10:59	1
Ethylbenzene	ND		0.0050	0.0022	mg/Kg			07/30/17 10:59	1
Methylene Chloride	ND		0.0050	0.0024	mg/Kg			07/30/17 10:59	1
Methyl tert-butyl ether	ND		0.0050	0.0037	mg/Kg			07/30/17 10:59	1
n-Butylbenzene	ND		0.0050	0.0038	mg/Kg			07/30/17 10:59	1
N-Propylbenzene	ND		0.0050	0.0021	mg/Kg			07/30/17 10:59	1
sec-Butylbenzene	ND		0.0050	0.0024	mg/Kg			07/30/17 10:59	1
tert-Butylbenzene	ND		0.0050	0.0018	mg/Kg			07/30/17 10:59	1
Tetrachloroethene	ND		0.0050	0.0020	mg/Kg			07/30/17 10:59	1
Toluene	ND		0.0050	0.0017	mg/Kg			07/30/17 10:59	1
trans-1,2-Dichloroethene	ND		0.0050	0.0025	mg/Kg			07/30/17 10:59	1
1,1,1-Trichloroethane	ND		0.0050	0.0025	mg/Kg			07/30/17 10:59	1
Trichloroethene	ND		0.0050	0.0015	mg/Kg			07/30/17 10:59	1
1,2,4-Trimethylbenzene	ND		0.0050	0.0013	mg/Kg			07/30/17 10:59	1
1,3,5-Trimethylbenzene	ND		0.0050	0.0017	mg/Kg			07/30/17 10:59	1
Vinyl chloride	ND		0.0050	0.0037	mg/Kg			07/30/17 10:59	1
Xylenes, Total	ND		0.010	0.0043	mg/Kg			07/30/17 10:59	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*63 - 120*		*07/30/17 10:59*	*1*
Dibromofluoromethane (Surr)	*104*		*68 - 121*		*07/30/17 10:59*	*1*
1,2-Dichloroethane-d4 (Surr)	*120*		*52 - 124*		*07/30/17 10:59*	*1*
Toluene-d8 (Surr)	*104*		*72 - 127*		*07/30/17 10:59*	*1*

Lab Sample ID: LCS 180-218535/3
Matrix: Solid
Analysis Batch: 218535

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0400	0.0442		mg/Kg		110	20 - 150
Benzene	0.0400	0.0417		mg/Kg		104	77 - 120
2-Butanone (MEK)	0.0400	0.0411		mg/Kg		103	35 - 149
Carbon tetrachloride	0.0400	0.0513	*	mg/Kg		128	69 - 122
Chlorobenzene	0.0400	0.0417		mg/Kg		104	79 - 120
Chloroform	0.0400	0.0460		mg/Kg		115	72 - 120
cis-1,2-Dichloroethene	0.0400	0.0426		mg/Kg		106	80 - 118
1,2-Dichlorobenzene	0.0400	0.0419		mg/Kg		105	71 - 124
1,3-Dichlorobenzene	0.0400	0.0421		mg/Kg		105	75 - 118
1,4-Dichlorobenzene	0.0400	0.0421		mg/Kg		105	77 - 116
1,1-Dichloroethane	0.0400	0.0444		mg/Kg		111	66 - 124
1,2-Dichloroethane	0.0400	0.0490		mg/Kg		122	61 - 127
1,1-Dichloroethene	0.0400	0.0411		mg/Kg		103	59 - 129
Ethylbenzene	0.0400	0.0421		mg/Kg		105	78 - 125
Methylene Chloride	0.0400	0.0417		mg/Kg		104	58 - 127
Methyl tert-butyl ether	0.0400	0.0438		mg/Kg		110	48 - 132
n-Butylbenzene	0.0400	0.0491		mg/Kg		123	59 - 145
N-Propylbenzene	0.0400	0.0448		mg/Kg		112	80 - 120
sec-Butylbenzene	0.0400	0.0468		mg/Kg		117	70 - 130

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 180-218535/3
Matrix: Solid
Analysis Batch: 218535

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
tert-Butylbenzene	0.0400	0.0464		mg/Kg		116	74 - 133
Tetrachloroethene	0.0400	0.0395		mg/Kg		99	78 - 129
Toluene	0.0400	0.0421		mg/Kg		105	78 - 124
trans-1,2-Dichloroethene	0.0400	0.0429		mg/Kg		107	77 - 121
1,1,1-Trichloroethane	0.0400	0.0516	*	mg/Kg		129	67 - 126
Trichloroethene	0.0400	0.0409		mg/Kg		102	76 - 119
1,2,4-Trimethylbenzene	0.0400	0.0453		mg/Kg		113	80 - 121
1,3,5-Trimethylbenzene	0.0400	0.0456		mg/Kg		114	68 - 133
Vinyl chloride	0.0400	0.0337		mg/Kg		84	63 - 124
Xylenes, Total	0.0800	0.0829		mg/Kg		104	83 - 126

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*63 - 120*
Dibromofluoromethane (Surr)	*101*		*68 - 121*
1,2-Dichloroethane-d4 (Surr)	*111*		*52 - 124*
Toluene-d8 (Surr)	*98*		*72 - 127*

Lab Sample ID: LCSD 180-218535/4
Matrix: Solid
Analysis Batch: 218535

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	0.0400	0.0494		mg/Kg		124	20 - 150	11	40
Benzene	0.0400	0.0421		mg/Kg		105	77 - 120	1	20
2-Butanone (MEK)	0.0400	0.0456		mg/Kg		114	35 - 149	11	36
Carbon tetrachloride	0.0400	0.0480		mg/Kg		120	69 - 122	7	22
Chlorobenzene	0.0400	0.0427		mg/Kg		107	79 - 120	2	20
Chloroform	0.0400	0.0462		mg/Kg		115	72 - 120	0	25
cis-1,2-Dichloroethene	0.0400	0.0426		mg/Kg		107	80 - 118	0	20
1,2-Dichlorobenzene	0.0400	0.0429		mg/Kg		107	71 - 124	2	22
1,3-Dichlorobenzene	0.0400	0.0426		mg/Kg		106	75 - 118	1	20
1,4-Dichlorobenzene	0.0400	0.0426		mg/Kg		106	77 - 116	1	20
1,1-Dichloroethane	0.0400	0.0449		mg/Kg		112	66 - 124	1	23
1,2-Dichloroethane	0.0400	0.0509		mg/Kg		127	61 - 127	4	23
1,1-Dichloroethene	0.0400	0.0414		mg/Kg		104	59 - 129	1	25
Ethylbenzene	0.0400	0.0430		mg/Kg		107	78 - 125	2	21
Methylene Chloride	0.0400	0.0425		mg/Kg		106	58 - 127	2	28
Methyl tert-butyl ether	0.0400	0.0471		mg/Kg		118	48 - 132	7	36
n-Butylbenzene	0.0400	0.0482		mg/Kg		120	59 - 145	2	24
N-Propylbenzene	0.0400	0.0438		mg/Kg		109	80 - 120	2	20
sec-Butylbenzene	0.0400	0.0461		mg/Kg		115	70 - 130	2	21
tert-Butylbenzene	0.0400	0.0459		mg/Kg		115	74 - 133	1	22
Tetrachloroethene	0.0400	0.0396		mg/Kg		99	78 - 129	0	20
Toluene	0.0400	0.0424		mg/Kg		106	78 - 124	1	21
trans-1,2-Dichloroethene	0.0400	0.0427		mg/Kg		107	77 - 121	0	20
1,1,1-Trichloroethane	0.0400	0.0476		mg/Kg		119	67 - 126	8	31
Trichloroethene	0.0400	0.0408		mg/Kg		102	76 - 119	0	21
1,2,4-Trimethylbenzene	0.0400	0.0450		mg/Kg		113	80 - 121	1	20

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 180-218535/4
Matrix: Solid
Analysis Batch: 218535

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,3,5-Trimethylbenzene			0.0400	0.0451		mg/Kg		113	68 - 133	1	21
Vinyl chloride			0.0400	0.0327		mg/Kg		82	63 - 124	3	27
Xylenes, Total			0.0800	0.0846		mg/Kg		106	83 - 126	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*106*		*63 - 120*
Dibromofluoromethane (Surr)	*109*		*68 - 121*
1,2-Dichloroethane-d4 (Surr)	*121*		*52 - 124*
Toluene-d8 (Surr)	*105*		*72 - 127*

Lab Sample ID: MB 180-218566/9
Matrix: Solid
Analysis Batch: 218566

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.020	0.0032	mg/Kg			07/31/17 08:52	1
Benzene	ND		0.0050	0.0020	mg/Kg			07/31/17 08:52	1
2-Butanone (MEK)	ND		0.0050	0.0029	mg/Kg			07/31/17 08:52	1
Carbon tetrachloride	ND		0.0050	0.0033	mg/Kg			07/31/17 08:52	1
Chlorobenzene	ND		0.0050	0.0016	mg/Kg			07/31/17 08:52	1
Chloroform	ND		0.0050	0.0021	mg/Kg			07/31/17 08:52	1
cis-1,2-Dichloroethene	ND		0.0050	0.0016	mg/Kg			07/31/17 08:52	1
1,2-Dichlorobenzene	ND		0.0050	0.0040	mg/Kg			07/31/17 08:52	1
1,3-Dichlorobenzene	ND		0.0050	0.0016	mg/Kg			07/31/17 08:52	1
1,4-Dichlorobenzene	ND		0.0050	0.0010	mg/Kg			07/31/17 08:52	1
1,1-Dichloroethane	ND		0.0050	0.0018	mg/Kg			07/31/17 08:52	1
1,2-Dichloroethane	ND		0.0050	0.0015	mg/Kg			07/31/17 08:52	1
1,1-Dichloroethene	ND		0.0050	0.0029	mg/Kg			07/31/17 08:52	1
Ethylbenzene	ND		0.0050	0.0022	mg/Kg			07/31/17 08:52	1
Methylene Chloride	ND		0.0050	0.0024	mg/Kg			07/31/17 08:52	1
Methyl tert-butyl ether	ND		0.0050	0.0037	mg/Kg			07/31/17 08:52	1
n-Butylbenzene	ND		0.0050	0.0038	mg/Kg			07/31/17 08:52	1
N-Propylbenzene	ND		0.0050	0.0021	mg/Kg			07/31/17 08:52	1
sec-Butylbenzene	ND		0.0050	0.0024	mg/Kg			07/31/17 08:52	1
tert-Butylbenzene	ND		0.0050	0.0018	mg/Kg			07/31/17 08:52	1
Tetrachloroethene	ND		0.0050	0.0020	mg/Kg			07/31/17 08:52	1
Toluene	ND		0.0050	0.0017	mg/Kg			07/31/17 08:52	1
trans-1,2-Dichloroethene	ND		0.0050	0.0025	mg/Kg			07/31/17 08:52	1
1,1,1-Trichloroethane	ND		0.0050	0.0025	mg/Kg			07/31/17 08:52	1
Trichloroethene	ND		0.0050	0.0015	mg/Kg			07/31/17 08:52	1
1,2,4-Trimethylbenzene	ND		0.0050	0.0013	mg/Kg			07/31/17 08:52	1
1,3,5-Trimethylbenzene	ND		0.0050	0.0017	mg/Kg			07/31/17 08:52	1
Vinyl chloride	ND		0.0050	0.0037	mg/Kg			07/31/17 08:52	1
Xylenes, Total	ND		0.010	0.0043	mg/Kg			07/31/17 08:52	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*63 - 120*		*07/31/17 08:52*	*1*

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 180-218566/9
Matrix: Solid
Analysis Batch: 218566

Client Sample ID: Method Blank
Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	*101*		*68 - 121*		*07/31/17 08:52*	*1*
1,2-Dichloroethane-d4 (Surr)	*120*		*52 - 124*		*07/31/17 08:52*	*1*
Toluene-d8 (Surr)	*103*		*72 - 127*		*07/31/17 08:52*	*1*

Lab Sample ID: LCS 180-218566/4
Matrix: Solid
Analysis Batch: 218566

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0400	0.0440		mg/Kg		110	20 - 150
Benzene	0.0400	0.0433		mg/Kg		108	77 - 120
2-Butanone (MEK)	0.0400	0.0416		mg/Kg		104	35 - 149
Carbon tetrachloride	0.0400	0.0488		mg/Kg		122	69 - 122
Chlorobenzene	0.0400	0.0437		mg/Kg		109	79 - 120
Chloroform	0.0400	0.0467		mg/Kg		117	72 - 120
cis-1,2-Dichloroethene	0.0400	0.0437		mg/Kg		109	80 - 118
1,2-Dichlorobenzene	0.0400	0.0429		mg/Kg		107	71 - 124
1,3-Dichlorobenzene	0.0400	0.0431		mg/Kg		108	75 - 118
1,4-Dichlorobenzene	0.0400	0.0434		mg/Kg		108	77 - 116
1,1-Dichloroethane	0.0400	0.0462		mg/Kg		115	66 - 124
1,2-Dichloroethane	0.0400	0.0513	*	mg/Kg		128	61 - 127
1,1-Dichloroethene	0.0400	0.0421		mg/Kg		105	59 - 129
Ethylbenzene	0.0400	0.0438		mg/Kg		110	78 - 125
Methylene Chloride	0.0400	0.0426		mg/Kg		107	58 - 127
Methyl tert-butyl ether	0.0400	0.0466		mg/Kg		117	48 - 132
n-Butylbenzene	0.0400	0.0502		mg/Kg		125	59 - 145
N-Propylbenzene	0.0400	0.0458		mg/Kg		115	80 - 120
sec-Butylbenzene	0.0400	0.0477		mg/Kg		119	70 - 130
tert-Butylbenzene	0.0400	0.0476		mg/Kg		119	74 - 133
Tetrachloroethene	0.0400	0.0406		mg/Kg		101	78 - 129
Toluene	0.0400	0.0436		mg/Kg		109	78 - 124
trans-1,2-Dichloroethene	0.0400	0.0439		mg/Kg		110	77 - 121
1,1,1-Trichloroethane	0.0400	0.0497		mg/Kg		124	67 - 126
Trichloroethene	0.0400	0.0420		mg/Kg		105	76 - 119
1,2,4-Trimethylbenzene	0.0400	0.0468		mg/Kg		117	80 - 121
1,3,5-Trimethylbenzene	0.0400	0.0467		mg/Kg		117	68 - 133
Vinyl chloride	0.0400	0.0336		mg/Kg		84	63 - 124
Xylenes, Total	0.0800	0.0871		mg/Kg		109	83 - 126

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	*107*		*63 - 120*
Dibromofluoromethane (Surr)	*108*		*68 - 121*
1,2-Dichloroethane-d4 (Surr)	*119*		*52 - 124*
Toluene-d8 (Surr)	*106*		*72 - 127*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Lab Sample ID: MB 180-218811/1-A
Matrix: Solid
Analysis Batch: 218855

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 218811

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0067	0.0022	mg/Kg		08/02/17 03:48	08/02/17 12:33	1
Acenaphthylene	ND		0.0067	0.0023	mg/Kg		08/02/17 03:48	08/02/17 12:33	1
Anthracene	ND		0.0067	0.0025	mg/Kg		08/02/17 03:48	08/02/17 12:33	1
Benzo[a]anthracene	ND		0.0067	0.0026	mg/Kg		08/02/17 03:48	08/02/17 12:33	1
Benzo[a]pyrene	ND		0.0067	0.0028	mg/Kg		08/02/17 03:48	08/02/17 12:33	1
Benzo[b]fluoranthene	ND		0.0067	0.0029	mg/Kg		08/02/17 03:48	08/02/17 12:33	1
Benzo[g,h,i]perylene	ND		0.0067	0.0029	mg/Kg		08/02/17 03:48	08/02/17 12:33	1
Benzo[k]fluoranthene	ND		0.0067	0.0023	mg/Kg		08/02/17 03:48	08/02/17 12:33	1
Chrysene	ND		0.0067	0.0026	mg/Kg		08/02/17 03:48	08/02/17 12:33	1
Dibenz(a,h)anthracene	ND		0.0067	0.0028	mg/Kg		08/02/17 03:48	08/02/17 12:33	1
Dibenzofuran	ND		0.033	0.0027	mg/Kg		08/02/17 03:48	08/02/17 12:33	1
1,4-Dioxane	ND		0.067	0.0050	mg/Kg		08/02/17 03:48	08/02/17 12:33	1
Fluoranthene	ND		0.0067	0.0026	mg/Kg		08/02/17 03:48	08/02/17 12:33	1
Fluorene	ND		0.0067	0.0024	mg/Kg		08/02/17 03:48	08/02/17 12:33	1
Hexachlorobenzene	ND		0.0067	0.0027	mg/Kg		08/02/17 03:48	08/02/17 12:33	1
Indeno[1,2,3-cd]pyrene	ND		0.0067	0.0026	mg/Kg		08/02/17 03:48	08/02/17 12:33	1
2-Methylphenol	ND		0.033	0.0029	mg/Kg		08/02/17 03:48	08/02/17 12:33	1
Methylphenol, 3 & 4	ND		0.033	0.0030	mg/Kg		08/02/17 03:48	08/02/17 12:33	1
Naphthalene	ND		0.0067	0.0024	mg/Kg		08/02/17 03:48	08/02/17 12:33	1
Pentachlorophenol	ND		0.17	0.063	mg/Kg		08/02/17 03:48	08/02/17 12:33	1
Phenanthrene	ND		0.0067	0.0028	mg/Kg		08/02/17 03:48	08/02/17 12:33	1
Phenol	ND		0.033	0.0045	mg/Kg		08/02/17 03:48	08/02/17 12:33	1
Pyrene	ND		0.0067	0.0030	mg/Kg		08/02/17 03:48	08/02/17 12:33	1
Hexachloroethane	ND		33	2.4	ug/Kg		08/02/17 03:48	08/02/17 12:33	1
Nitrobenzene	ND		67	2.5	ug/Kg		08/02/17 03:48	08/02/17 12:33	1
Hexachlorobutadiene	ND		6.7	2.1	ug/Kg		08/02/17 03:48	08/02/17 12:33	1
2,4,5-Trichlorophenol	ND		33	3.2	ug/Kg		08/02/17 03:48	08/02/17 12:33	1
2,4,6-Trichlorophenol	ND		33	2.9	ug/Kg		08/02/17 03:48	08/02/17 12:33	1
2,4-Dinitrotoluene	ND		33	4.4	ug/Kg		08/02/17 03:48	08/02/17 12:33	1
Pyridine	ND		33	3.2	ug/Kg		08/02/17 03:48	08/02/17 12:33	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*78*		*42 - 100*	*08/02/17 03:48*	*08/02/17 12:33*	*1*
2-Fluorophenol (Surr)	*75*		*21 - 107*	*08/02/17 03:48*	*08/02/17 12:33*	*1*
Nitrobenzene-d5 (Surr)	*78*		*35 - 109*	*08/02/17 03:48*	*08/02/17 12:33*	*1*
Phenol-d5 (Surr)	*68*		*29 - 105*	*08/02/17 03:48*	*08/02/17 12:33*	*1*
Terphenyl-d14 (Surr)	*77*		*36 - 113*	*08/02/17 03:48*	*08/02/17 12:33*	*1*
2,4,6-Tribromophenol (Surr)	*86*		*20 - 134*	*08/02/17 03:48*	*08/02/17 12:33*	*1*

Lab Sample ID: LCS 180-218811/2-A
Matrix: Solid
Analysis Batch: 218855

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 218811

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	0.667	0.534		mg/Kg		80	39 - 100
Acenaphthylene	0.667	0.481		mg/Kg		72	42 - 100
Anthracene	0.667	0.491		mg/Kg		74	43 - 100
Benzo[a]anthracene	0.667	0.536		mg/Kg		80	43 - 100

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCS 180-218811/2-A
Matrix: Solid
Analysis Batch: 218855

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 218811

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzo[a]pyrene	0.667	0.492		mg/Kg		74	43 - 100
Benzo[b]fluoranthene	0.667	0.526		mg/Kg		79	40 - 100
Benzo[g,h,i]perylene	0.667	0.390		mg/Kg		59	41 - 102
Benzo[k]fluoranthene	0.667	0.497		mg/Kg		75	44 - 100
Chrysene	0.667	0.463		mg/Kg		69	44 - 100
Dibenz(a,h)anthracene	0.667	0.421		mg/Kg		63	40 - 104
Dibenzofuran	0.667	0.492		mg/Kg		74	42 - 100
1,4-Dioxane	0.667	0.581		mg/Kg		87	19 - 107
Fluoranthene	0.667	0.520		mg/Kg		78	41 - 104
Fluorene	0.667	0.550		mg/Kg		82	41 - 100
Hexachlorobenzene	0.667	0.530		mg/Kg		80	43 - 100
Indeno[1,2,3-cd]pyrene	0.667	0.431		mg/Kg		65	41 - 104
2-Methylphenol	0.667	0.481		mg/Kg		72	38 - 100
Methylphenol, 3 & 4	0.667	0.475		mg/Kg		71	40 - 100
Naphthalene	0.667	0.467		mg/Kg		70	38 - 100
Pentachlorophenol	1.33	1.16		mg/Kg		87	34 - 102
Phenanthrene	0.667	0.489		mg/Kg		73	41 - 100
Phenol	0.667	0.460		mg/Kg		69	36 - 100
Pyrene	0.667	0.485		mg/Kg		73	42 - 100
Hexachloroethane	667	448		ug/Kg		67	35 - 100
Nitrobenzene	667	479		ug/Kg		72	34 - 100
Hexachlorobutadiene	667	576		ug/Kg		86	35 - 100
2,4,5-Trichlorophenol	667	558		ug/Kg		84	42 - 100
2,4,6-Trichlorophenol	667	560		ug/Kg		84	41 - 103
2,4-Dinitrotoluene	667	560		ug/Kg		84	42 - 110
Pyridine	1330	1290		ug/Kg		97	25 - 119

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*63*		*42 - 100*
2-Fluorophenol (Surr)	*63*		*21 - 107*
Nitrobenzene-d5 (Surr)	*63*		*35 - 109*
Phenol-d5 (Surr)	*59*		*29 - 105*
Terphenyl-d14 (Surr)	*65*		*36 - 113*
2,4,6-Tribromophenol (Surr)	*72*		*20 - 134*

Lab Sample ID: 180-68716-3 MS
Matrix: Solid
Analysis Batch: 218855

Client Sample ID: WB3-4, S1, C 072817
Prep Type: Total/NA
Prep Batch: 218811

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	0.15		0.729	0.540		mg/Kg	☼	54	39 - 100
Acenaphthylene	0.82	F1	0.729	0.551	F1	mg/Kg	☼	-37	42 - 100
Anthracene	2.6	F1	0.729	0.595	F1	mg/Kg	☼	-282	43 - 100
Benzo[a]anthracene	4.9		0.729	0.935	4	mg/Kg	☼	-550	43 - 100
Benzo[a]pyrene	3.6		0.729	0.791	4	mg/Kg	☼	-382	43 - 100
Benzo[b]fluoranthene	4.8		0.729	0.867	4	mg/Kg	☼	-545	40 - 100
Benzo[g,h,i]perylene	2.9		0.729	0.699	4	mg/Kg	☼	-307	41 - 102
Benzo[k]fluoranthene	1.5	F1	0.729	0.664	F1	mg/Kg	☼	-115	44 - 100

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: 180-68716-3 MS
Matrix: Solid
Analysis Batch: 218855

Client Sample ID: WB3-4, S1, C 072817
Prep Type: Total/NA
Prep Batch: 218811

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chrysene	3.7		0.729	0.750	4	mg/Kg	☼	-410	44 - 100
Dibenz(a,h)anthracene	0.61	F1	0.729	0.551	F1	mg/Kg	☼	-8	40 - 104
Dibenzofuran	0.54	F1	0.729	0.542	F1	mg/Kg	☼	0.02	42 - 100
1,4-Dioxane	ND		0.729	0.625		mg/Kg	☼	86	19 - 107
Fluoranthene	8.5	E	0.729	0.980	4	mg/Kg	☼	-1034	41 - 104
Fluorene	0.40	F1	0.729	0.547	F1	mg/Kg	☼	20	41 - 100
Hexachlorobenzene	ND		0.729	0.603		mg/Kg	☼	83	43 - 100
Indeno[1,2,3-cd]pyrene	2.6	F1	0.729	0.685	F1	mg/Kg	☼	-263	41 - 104
2-Methylphenol	ND		0.729	0.462		mg/Kg	☼	63	38 - 100
Methylphenol, 3 & 4	0.025	J	0.729	0.480		mg/Kg	☼	62	40 - 100
Naphthalene	0.73	F1	0.729	0.578	F1	mg/Kg	☼	-21	38 - 100
Pentachlorophenol	ND		1.46	1.05		mg/Kg	☼	72	34 - 102
Phenanthrene	10	E	0.729	0.816	4	mg/Kg	☼	-1265	41 - 100
Phenol	0.022	J	0.729	0.456		mg/Kg	☼	59	36 - 100
Pyrene	8.7	E	0.729	1.13	4	mg/Kg	☼	-1044	42 - 100
Hexachloroethane	ND		729	487		ug/Kg	☼	67	35 - 100
Nitrobenzene	ND		729	558		ug/Kg	☼	77	34 - 100
Hexachlorobutadiene	ND		729	651		ug/Kg	☼	89	35 - 100
2,4,5-Trichlorophenol	ND		729	560		ug/Kg	☼	77	42 - 100
2,4,6-Trichlorophenol	ND		729	579		ug/Kg	☼	79	41 - 103
2,4-Dinitrotoluene	ND		729	589		ug/Kg	☼	81	42 - 110
Pyridine	ND	F1 F2	1460	199	F1	ug/Kg	☼	14	25 - 119

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl	*60*		*42 - 100*
2-Fluorophenol (Surr)	*57*		*21 - 107*
Nitrobenzene-d5 (Surr)	*64*		*35 - 109*
Phenol-d5 (Surr)	*54*		*29 - 105*
Terphenyl-d14 (Surr)	*63*		*36 - 113*
2,4,6-Tribromophenol (Surr)	*76*		*20 - 134*

Lab Sample ID: 180-68716-3 MSD
Matrix: Solid
Analysis Batch: 218855

Client Sample ID: WB3-4, S1, C 072817
Prep Type: Total/NA
Prep Batch: 218811

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	0.15		0.724	0.514		mg/Kg	☼	50	39 - 100	5	20
Acenaphthylene	0.82	F1	0.724	0.534	F1	mg/Kg	☼	-40	42 - 100	3	20
Anthracene	2.6	F1	0.724	0.574	F1	mg/Kg	☼	-286	43 - 100	4	20
Benzo[a]anthracene	4.9		0.724	0.848	4	mg/Kg	☼	-566	43 - 100	10	20
Benzo[a]pyrene	3.6		0.724	0.798	4	mg/Kg	☼	-384	43 - 100	1	20
Benzo[b]fluoranthene	4.8		0.724	0.917	4	mg/Kg	☼	-542	40 - 100	6	20
Benzo[g,h,i]perylene	2.9		0.724	0.726	4	mg/Kg	☼	-306	41 - 102	4	20
Benzo[k]fluoranthene	1.5	F1	0.724	0.680	F1	mg/Kg	☼	-113	44 - 100	2	20
Chrysene	3.7		0.724	0.671	4	mg/Kg	☼	-424	44 - 100	11	20
Dibenz(a,h)anthracene	0.61	F1	0.724	0.547	F1	mg/Kg	☼	-8	40 - 104	1	26
Dibenzofuran	0.54	F1	0.724	0.529	F1	mg/Kg	☼	-2	42 - 100	2	23
1,4-Dioxane	ND		0.724	0.625		mg/Kg	☼	86	19 - 107	0	20

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: 180-68716-3 MSD
Matrix: Solid
Analysis Batch: 218855

Client Sample ID: WB3-4, S1, C 072817
Prep Type: Total/NA
Prep Batch: 218811

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoranthene	8.5	E	0.724	1.05	4	mg/Kg	☼	-1031	41 - 104	7	20
Fluorene	0.40	F1	0.724	0.550	F1	mg/Kg	☼	20	41 - 100	1	21
Hexachlorobenzene	ND		0.724	0.617		mg/Kg	☼	85	43 - 100	2	21
Indeno[1,2,3-cd]pyrene	2.6	F1	0.724	0.709	F1	mg/Kg	☼	-261	41 - 104	3	25
2-Methylphenol	ND		0.724	0.467		mg/Kg	☼	64	38 - 100	1	20
Methylphenol, 3 & 4	0.025	J	0.724	0.511		mg/Kg	☼	67	40 - 100	6	20
Naphthalene	0.73	F1	0.724	0.573	F1	mg/Kg	☼	-21	38 - 100	1	20
Pentachlorophenol	ND		1.45	1.03		mg/Kg	☼	71	34 - 102	3	20
Phenanthrene	10	E	0.724	0.813	4	mg/Kg	☼	-1274	41 - 100	0	20
Phenol	0.022	J	0.724	0.455		mg/Kg	☼	60	36 - 100	0	20
Pyrene	8.7	E	0.724	1.05	4	mg/Kg	☼	-1062	42 - 100	7	21
Hexachloroethane	ND		724	497		ug/Kg	☼	69	35 - 100	2	20
Nitrobenzene	ND		724	549		ug/Kg	☼	76	34 - 100	2	20
Hexachlorobutadiene	ND		724	650		ug/Kg	☼	90	35 - 100	0	20
2,4,5-Trichlorophenol	ND		724	578		ug/Kg	☼	80	42 - 100	3	22
2,4,6-Trichlorophenol	ND		724	564		ug/Kg	☼	78	41 - 103	3	25
2,4-Dinitrotoluene	ND		724	585		ug/Kg	☼	81	42 - 110	1	21
Pyridine	ND	F1 F2	1450	361	F2	ug/Kg	☼	25	25 - 119	58	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl	*65*		*42 - 100*
2-Fluorophenol (Surr)	*63*		*21 - 107*
Nitrobenzene-d5 (Surr)	*71*		*35 - 109*
Phenol-d5 (Surr)	*58*		*29 - 105*
Terphenyl-d14 (Surr)	*60*		*36 - 113*
2,4,6-Tribromophenol (Surr)	*75*		*20 - 134*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 180-218813/1-A
Matrix: Solid
Analysis Batch: 218956

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 218813

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.017	0.0088	mg/Kg		08/02/17 03:57	08/03/17 11:18	1
PCB-1221	ND		0.017	0.0086	mg/Kg		08/02/17 03:57	08/03/17 11:18	1
PCB-1232	ND		0.017	0.0066	mg/Kg		08/02/17 03:57	08/03/17 11:18	1
PCB-1242	ND		0.017	0.013	mg/Kg		08/02/17 03:57	08/03/17 11:18	1
PCB-1248	ND		0.017	0.0080	mg/Kg		08/02/17 03:57	08/03/17 11:18	1
PCB-1254	ND		0.017	0.0073	mg/Kg		08/02/17 03:57	08/03/17 11:18	1
PCB-1260	ND		0.017	0.011	mg/Kg		08/02/17 03:57	08/03/17 11:18	1
PCB-1262	ND		0.017	0.012	mg/Kg		08/02/17 03:57	08/03/17 11:18	1
PCB-1268	ND		0.017	0.0051	mg/Kg		08/02/17 03:57	08/03/17 11:18	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*80*		*23 - 150*	*08/02/17 03:57*	*08/03/17 11:18*	*1*
DCB Decachlorobiphenyl (Surr)	*84*		*23 - 150*	*08/02/17 03:57*	*08/03/17 11:18*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: MB 180-218813/1-A
Matrix: Solid
Analysis Batch: 218956

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 218813

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	89		27 - 138	08/02/17 03:57	08/03/17 11:18	1
Tetrachloro-m-xylene (Surr)	99		27 - 138	08/02/17 03:57	08/03/17 11:18	1

Lab Sample ID: LCS 180-218813/2-A
Matrix: Solid
Analysis Batch: 218956

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 218813

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	1.33	1.14		mg/Kg		85	52 - 126
PCB-1260	1.33	1.09		mg/Kg		82	50 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	79		23 - 150
DCB Decachlorobiphenyl (Surr)	86		23 - 150
Tetrachloro-m-xylene (Surr)	90		27 - 138
Tetrachloro-m-xylene (Surr)	95		27 - 138

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 180-218614/1-A
Matrix: Solid
Analysis Batch: 218816

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 218614

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		1.0	0.44	mg/Kg		07/31/17 10:55	08/01/17 09:11	1
Barium	ND		20	5.4	mg/Kg		07/31/17 10:55	08/01/17 09:11	1
Beryllium	ND		0.40	0.10	mg/Kg		07/31/17 10:55	08/01/17 09:11	1
Cadmium	ND		0.50	0.11	mg/Kg		07/31/17 10:55	08/01/17 09:11	1
Chromium	ND		0.50	0.13	mg/Kg		07/31/17 10:55	08/01/17 09:11	1
Copper	ND		2.5	0.77	mg/Kg		07/31/17 10:55	08/01/17 09:11	1
Lead	ND		1.0	0.33	mg/Kg		07/31/17 10:55	08/01/17 09:11	1
Manganese	ND		1.5	0.41	mg/Kg		07/31/17 10:55	08/01/17 09:11	1
Nickel	ND		4.0	0.90	mg/Kg		07/31/17 10:55	08/01/17 09:11	1
Selenium	ND	^	1.0	0.40	mg/Kg		07/31/17 10:55	08/01/17 09:11	1
Silver	ND		0.50	0.17	mg/Kg		07/31/17 10:55	08/01/17 09:11	1
Zinc	ND		2.0	1.0	mg/Kg		07/31/17 10:55	08/01/17 09:11	1

Lab Sample ID: LCS 180-218614/2-A
Matrix: Solid
Analysis Batch: 218816

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 218614

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	50.0	50.6		mg/Kg		101	80 - 120
Barium	200	204		mg/Kg		102	80 - 120
Beryllium	5.00	5.12		mg/Kg		102	80 - 120
Cadmium	5.00	5.08		mg/Kg		102	80 - 120
Chromium	20.0	19.3		mg/Kg		97	80 - 120
Copper	25.0	25.2		mg/Kg		101	80 - 120

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCS 180-218614/2-A
Matrix: Solid
Analysis Batch: 218816

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 218614

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	50.0	48.7		mg/Kg		97	80 - 120
Manganese	50.0	49.5		mg/Kg		99	80 - 120
Nickel	50.0	51.2		mg/Kg		102	80 - 120
Selenium	50.0	52.3	^	mg/Kg		105	80 - 120
Silver	5.00	4.98		mg/Kg		100	80 - 120
Zinc	50.0	48.8		mg/Kg		98	80 - 120

Lab Sample ID: 180-68716-3 MS
Matrix: Solid
Analysis Batch: 218816

Client Sample ID: WB3-4, S1, C 072817
Prep Type: Total/NA
Prep Batch: 218614

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	7.8		57.1	56.7		mg/Kg	☼	86	75 - 125
Barium	71		229	282		mg/Kg	☼	92	75 - 125
Beryllium	0.33	J	5.71	5.20		mg/Kg	☼	85	75 - 125
Cadmium	0.14	J	5.71	5.10		mg/Kg	☼	87	75 - 125
Chromium	10		22.9	30.7		mg/Kg	☼	89	75 - 125
Copper	56	F1	28.6	88.2		mg/Kg	☼	112	75 - 125
Lead	55	F1	57.1	112		mg/Kg	☼	99	75 - 125
Manganese	390		57.1	451	4	mg/Kg	☼	114	75 - 125
Nickel	26		57.1	89.0		mg/Kg	☼	110	75 - 125
Selenium	0.51	J ^	57.1	49.2	^	mg/Kg	☼	85	75 - 125
Silver	ND		5.71	4.95		mg/Kg	☼	87	75 - 125
Zinc	65		57.1	123		mg/Kg	☼	101	75 - 125

Lab Sample ID: 180-68716-3 MSD
Matrix: Solid
Analysis Batch: 218816

Client Sample ID: WB3-4, S1, C 072817
Prep Type: Total/NA
Prep Batch: 218614

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	7.8		56.5	54.5		mg/Kg	☼	83	75 - 125	4	20
Barium	71		226	262		mg/Kg	☼	84	75 - 125	8	20
Beryllium	0.33	J	5.65	5.07		mg/Kg	☼	84	75 - 125	3	20
Cadmium	0.14	J	5.65	4.96		mg/Kg	☼	85	75 - 125	3	20
Chromium	10		22.6	28.6		mg/Kg	☼	81	75 - 125	7	20
Copper	56	F1	28.3	73.3	F1	mg/Kg	☼	60	75 - 125	18	20
Lead	55	F1	56.5	131	F1	mg/Kg	☼	135	75 - 125	16	20
Manganese	390		56.5	434	4	mg/Kg	☼	85	75 - 125	4	20
Nickel	26		56.5	77.5		mg/Kg	☼	91	75 - 125	14	20
Selenium	0.51	J ^	56.5	48.6	^	mg/Kg	☼	85	75 - 125	1	20
Silver	ND		5.65	4.83		mg/Kg	☼	85	75 - 125	2	20
Zinc	65		56.5	110		mg/Kg	☼	79	75 - 125	11	20

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 180-218684/1-A
Matrix: Solid
Analysis Batch: 218849

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 218684

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.033	0.0074	mg/Kg		08/01/17 06:50	08/02/17 06:50	1

Lab Sample ID: LCS 180-218684/2-A
Matrix: Solid
Analysis Batch: 218849

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 218684

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.417	0.501		mg/Kg		120	80 - 120

Lab Sample ID: 180-68716-3 MS
Matrix: Solid
Analysis Batch: 218849

Client Sample ID: WB3-4, S1, C 072817
Prep Type: Total/NA
Prep Batch: 218684

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.037	J F1	0.194	0.277	F1	mg/Kg	☼	123	80 - 120

Lab Sample ID: 180-68716-3 MSD
Matrix: Solid
Analysis Batch: 218849

Client Sample ID: WB3-4, S1, C 072817
Prep Type: Total/NA
Prep Batch: 218684

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.037	J F1	0.194	0.285	F1	mg/Kg	☼	127	80 - 120	3	20

Method: 2540G - SM 2540G

Lab Sample ID: 180-68716-11 DU
Matrix: Solid
Analysis Batch: 218618

Client Sample ID: DUPE 18
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	9.5		10.4		%		8	20
Percent Solids	90.5		89.6		%		0.9	20

Lab Sample ID: 180-68716-3 DU
Matrix: Solid
Analysis Batch: 218626

Client Sample ID: WB3-4, S1, C 072817
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	9.8		10.2		%		4	20
Percent Solids	90.2		89.8		%		0.5	20

Lab Sample ID: 180-68716-9 DU
Matrix: Solid
Analysis Batch: 218626

Client Sample ID: WB3-4, S3, C 072817
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	11.2		11.6		%		4	20
Percent Solids	88.8		88.4		%		0.5	20

Method: 9014 - Cyanide

Lab Sample ID: MB 180-218907/4-A
Matrix: Solid
Analysis Batch: 219021

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 218907

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.50	0.15	mg/Kg		08/02/17 13:35	08/03/17 11:09	1

Lab Sample ID: HLCS 180-218907/2-A
Matrix: Solid
Analysis Batch: 219021

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 218907

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.250	0.255		mg/Kg		102	90 - 110

Lab Sample ID: LCS 180-218907/3-A
Matrix: Solid
Analysis Batch: 219021

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 218907

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	164	119		mg/Kg		73	38 - 162

Lab Sample ID: LLCS 180-218907/1-A
Matrix: Solid
Analysis Batch: 219021

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 218907

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.0500	0.0501		mg/Kg		100	90 - 110

GC/MS VOA

Analysis Batch: 218535

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68716-1	WB3-4, S1, A 072817	Total/NA	Solid	8260C	218540
180-68716-2	WB3-4, S1, B 072817	Total/NA	Solid	8260C	218540
MB 180-218535/8	Method Blank	Total/NA	Solid	8260C	
LCS 180-218535/3	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 180-218535/4	Lab Control Sample Dup	Total/NA	Solid	8260C	

Prep Batch: 218540

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68716-1	WB3-4, S1, A 072817	Total/NA	Solid	5035	
180-68716-2	WB3-4, S1, B 072817	Total/NA	Solid	5035	

Analysis Batch: 218552

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68716-12	TRIP BLANK #1	Total/NA	Water	8260C	
MB 180-218552/5	Method Blank	Total/NA	Water	8260C	
LCS 180-218552/3	Lab Control Sample	Total/NA	Water	8260C	

Analysis Batch: 218566

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68716-4	WB3-4, S2, A 072817	Total/NA	Solid	8260C	218570
180-68716-5	WB3-4, S2, B 072817	Total/NA	Solid	8260C	218570
180-68716-7	WB3-4, S3, A 072817	Total/NA	Solid	8260C	218570
180-68716-8	WB3-4, S3, B 072817	Total/NA	Solid	8260C	218570
180-68716-10	DUPE 19	Total/NA	Solid	8260C	218570
MB 180-218566/9	Method Blank	Total/NA	Solid	8260C	
LCS 180-218566/4	Lab Control Sample	Total/NA	Solid	8260C	

Prep Batch: 218570

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68716-4	WB3-4, S2, A 072817	Total/NA	Solid	5035	
180-68716-5	WB3-4, S2, B 072817	Total/NA	Solid	5035	
180-68716-7	WB3-4, S3, A 072817	Total/NA	Solid	5035	
180-68716-8	WB3-4, S3, B 072817	Total/NA	Solid	5035	
180-68716-10	DUPE 19	Total/NA	Solid	5035	

GC/MS Semi VOA

Prep Batch: 218811

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68716-3 - DL	WB3-4, S1, C 072817	Total/NA	Solid	3541	
180-68716-3	WB3-4, S1, C 072817	Total/NA	Solid	3541	
180-68716-6	WB3-4, S2, C 072817	Total/NA	Solid	3541	
180-68716-9	WB3-4, S3, C 072817	Total/NA	Solid	3541	
180-68716-11	DUPE 18	Total/NA	Solid	3541	
MB 180-218811/1-A	Method Blank	Total/NA	Solid	3541	
LCS 180-218811/2-A	Lab Control Sample	Total/NA	Solid	3541	
180-68716-3 MS	WB3-4, S1, C 072817	Total/NA	Solid	3541	
180-68716-3 MSD	WB3-4, S1, C 072817	Total/NA	Solid	3541	

GC/MS Semi VOA (Continued)

Analysis Batch: 218855

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68716-3	WB3-4, S1, C 072817	Total/NA	Solid	8270D LL	218811
180-68716-6	WB3-4, S2, C 072817	Total/NA	Solid	8270D LL	218811
180-68716-9	WB3-4, S3, C 072817	Total/NA	Solid	8270D LL	218811
180-68716-11	DUPE 18	Total/NA	Solid	8270D LL	218811
MB 180-218811/1-A	Method Blank	Total/NA	Solid	8270D LL	218811
LCS 180-218811/2-A	Lab Control Sample	Total/NA	Solid	8270D LL	218811
180-68716-3 MS	WB3-4, S1, C 072817	Total/NA	Solid	8270D LL	218811
180-68716-3 MSD	WB3-4, S1, C 072817	Total/NA	Solid	8270D LL	218811

Analysis Batch: 219005

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68716-3 - DL	WB3-4, S1, C 072817	Total/NA	Solid	8270D LL	218811

GC Semi VOA

Prep Batch: 218813

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68716-3	WB3-4, S1, C 072817	Total/NA	Solid	3541	
180-68716-6	WB3-4, S2, C 072817	Total/NA	Solid	3541	
180-68716-9	WB3-4, S3, C 072817	Total/NA	Solid	3541	
180-68716-11	DUPE 18	Total/NA	Solid	3541	
MB 180-218813/1-A	Method Blank	Total/NA	Solid	3541	
LCS 180-218813/2-A	Lab Control Sample	Total/NA	Solid	3541	

Cleanup Batch: 218880

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68716-3	WB3-4, S1, C 072817	Total/NA	Solid	3665A	218813
180-68716-6	WB3-4, S2, C 072817	Total/NA	Solid	3665A	218813
180-68716-9	WB3-4, S3, C 072817	Total/NA	Solid	3665A	218813
180-68716-11	DUPE 18	Total/NA	Solid	3665A	218813

Cleanup Batch: 218881

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68716-3	WB3-4, S1, C 072817	Total/NA	Solid	3660B	218880
180-68716-6	WB3-4, S2, C 072817	Total/NA	Solid	3660B	218880
180-68716-9	WB3-4, S3, C 072817	Total/NA	Solid	3660B	218880
180-68716-11	DUPE 18	Total/NA	Solid	3660B	218880

Analysis Batch: 218956

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68716-3	WB3-4, S1, C 072817	Total/NA	Solid	8082A	218881
180-68716-6	WB3-4, S2, C 072817	Total/NA	Solid	8082A	218881
180-68716-9	WB3-4, S3, C 072817	Total/NA	Solid	8082A	218881
180-68716-11	DUPE 18	Total/NA	Solid	8082A	218881
MB 180-218813/1-A	Method Blank	Total/NA	Solid	8082A	218813
LCS 180-218813/2-A	Lab Control Sample	Total/NA	Solid	8082A	218813

QC Association Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68716-1

Metals

Prep Batch: 218614

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68716-3	WB3-4, S1, C 072817	Total/NA	Solid	3050B	
180-68716-6	WB3-4, S2, C 072817	Total/NA	Solid	3050B	
180-68716-9	WB3-4, S3, C 072817	Total/NA	Solid	3050B	
180-68716-11	DUPE 18	Total/NA	Solid	3050B	
MB 180-218614/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 180-218614/2-A	Lab Control Sample	Total/NA	Solid	3050B	
180-68716-3 MS	WB3-4, S1, C 072817	Total/NA	Solid	3050B	
180-68716-3 MSD	WB3-4, S1, C 072817	Total/NA	Solid	3050B	

Prep Batch: 218684

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68716-3	WB3-4, S1, C 072817	Total/NA	Solid	7471B	
180-68716-6	WB3-4, S2, C 072817	Total/NA	Solid	7471B	
180-68716-9	WB3-4, S3, C 072817	Total/NA	Solid	7471B	
180-68716-11	DUPE 18	Total/NA	Solid	7471B	
MB 180-218684/1-A	Method Blank	Total/NA	Solid	7471B	
LCS 180-218684/2-A	Lab Control Sample	Total/NA	Solid	7471B	
180-68716-3 MS	WB3-4, S1, C 072817	Total/NA	Solid	7471B	
180-68716-3 MSD	WB3-4, S1, C 072817	Total/NA	Solid	7471B	

Analysis Batch: 218816

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68716-3	WB3-4, S1, C 072817	Total/NA	Solid	6010C	218614
180-68716-6	WB3-4, S2, C 072817	Total/NA	Solid	6010C	218614
180-68716-9	WB3-4, S3, C 072817	Total/NA	Solid	6010C	218614
180-68716-11	DUPE 18	Total/NA	Solid	6010C	218614
MB 180-218614/1-A	Method Blank	Total/NA	Solid	6010C	218614
LCS 180-218614/2-A	Lab Control Sample	Total/NA	Solid	6010C	218614
180-68716-3 MS	WB3-4, S1, C 072817	Total/NA	Solid	6010C	218614
180-68716-3 MSD	WB3-4, S1, C 072817	Total/NA	Solid	6010C	218614

Analysis Batch: 218849

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68716-3	WB3-4, S1, C 072817	Total/NA	Solid	7471B	218684
180-68716-6	WB3-4, S2, C 072817	Total/NA	Solid	7471B	218684
180-68716-9	WB3-4, S3, C 072817	Total/NA	Solid	7471B	218684
180-68716-11	DUPE 18	Total/NA	Solid	7471B	218684
MB 180-218684/1-A	Method Blank	Total/NA	Solid	7471B	218684
LCS 180-218684/2-A	Lab Control Sample	Total/NA	Solid	7471B	218684
180-68716-3 MS	WB3-4, S1, C 072817	Total/NA	Solid	7471B	218684
180-68716-3 MSD	WB3-4, S1, C 072817	Total/NA	Solid	7471B	218684

General Chemistry

Analysis Batch: 218618

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68716-10	DUPE 19	Total/NA	Solid	2540G	
180-68716-11	DUPE 18	Total/NA	Solid	2540G	
180-68716-11 DU	DUPE 18	Total/NA	Solid	2540G	

General Chemistry (Continued)

Analysis Batch: 218626

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68716-1	WB3-4, S1, A 072817	Total/NA	Solid	2540G	
180-68716-2	WB3-4, S1, B 072817	Total/NA	Solid	2540G	
180-68716-3	WB3-4, S1, C 072817	Total/NA	Solid	2540G	
180-68716-4	WB3-4, S2, A 072817	Total/NA	Solid	2540G	
180-68716-5	WB3-4, S2, B 072817	Total/NA	Solid	2540G	
180-68716-6	WB3-4, S2, C 072817	Total/NA	Solid	2540G	
180-68716-7	WB3-4, S3, A 072817	Total/NA	Solid	2540G	
180-68716-8	WB3-4, S3, B 072817	Total/NA	Solid	2540G	
180-68716-9	WB3-4, S3, C 072817	Total/NA	Solid	2540G	
180-68716-3 DU	WB3-4, S1, C 072817	Total/NA	Solid	2540G	
180-68716-9 DU	WB3-4, S3, C 072817	Total/NA	Solid	2540G	

Prep Batch: 218907

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68716-3	WB3-4, S1, C 072817	Total/NA	Solid	9010C	
180-68716-6	WB3-4, S2, C 072817	Total/NA	Solid	9010C	
180-68716-9	WB3-4, S3, C 072817	Total/NA	Solid	9010C	
180-68716-11	DUPE 18	Total/NA	Solid	9010C	
MB 180-218907/4-A	Method Blank	Total/NA	Solid	9010C	
HLCS 180-218907/2-A	Lab Control Sample	Total/NA	Solid	9010C	
LCS 180-218907/3-A	Lab Control Sample	Total/NA	Solid	9010C	
LLCS 180-218907/1-A	Lab Control Sample	Total/NA	Solid	9010C	

Analysis Batch: 219021

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68716-3	WB3-4, S1, C 072817	Total/NA	Solid	9014	218907
180-68716-6	WB3-4, S2, C 072817	Total/NA	Solid	9014	218907
180-68716-9	WB3-4, S3, C 072817	Total/NA	Solid	9014	218907
180-68716-11	DUPE 18	Total/NA	Solid	9014	218907
MB 180-218907/4-A	Method Blank	Total/NA	Solid	9014	218907
HLCS 180-218907/2-A	Lab Control Sample	Total/NA	Solid	9014	218907
LCS 180-218907/3-A	Lab Control Sample	Total/NA	Solid	9014	218907
LLCS 180-218907/1-A	Lab Control Sample	Total/NA	Solid	9014	218907

TestAmerica Pittsburgh
301 Alpha Drive RIDC Park
Pittsburgh, PA 15238
Phone (412) 963-7058 Fax (412) 963-2468

Chain of Custody Record

180-68716 Chain of Custody

America
ENVIRONMENTAL TESTING

81.1

Client Information	Sampler: Ellen Buelow	Lab PM: Dunlap, David A	Page 1 of 2
Client Contact: Ashwin Ranna; Aron Krasnopoler	Phone: 412-552-4758	E-Mail: david.dunlap@testamericainc.com	
Company: Geosyntec Consultants, Inc.			Job #:
Address: Penn Center West One, Suite 402 1 Penn Center West Drive	Due Date Requested:		
City: Pittsburgh	TAT Requested (days): 1 Day TAT		
State, Zip: PA, 15276			
Phone:	PO #: MN0832B		
Email: aranna@geosyntec.com; Akrasnopoler@geosyntec.com	WO #:		
Project Name: Former Sperry Remington Site - North IRM	Project #: 18013464		
Site:	SSOW#:		

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - VOA-Select List	6010C, 7471B, 9014 - Select ICP Metals, Mercury, Cyanide	8082A, 8270D, PCBs, Select BNA	8260C - VOA-Select List (Trip Blanks only)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	A		
WB 3-4, S1, A 072817	072817	12:15	G	Solid	N	N	X				4	TRIP BLANK #1
WB 3-4, S1, B 072817	072817	12:25	G	Solid	N	N	X				4	"
WB 3-4, S1, C 072817	072817	12:30	C	Solid	N	N		X	X		2	
WB 3-4, S2, A 072817	072817	14:50	G	Solid			X				4	"
WB 3-4, S2, B 072817	072817	14:55	G	Solid			X				4	"
WB 3-4, S2, C 072817	072817	15:05	C	Solid				X	X		2	
WB 3-4, S3, A 072817	072817	16:00	G	Solid			X				4	"
WB 3-4 S3, B 072817	072817	16:05	G	Solid			X				4	"
WB 3-4 S3, C 072817	072817	16:15	C	Solid				X	X		2	
DUPE 19	072817	—	G	Solid			X				4	"
DUPE 18	072817	—	C	Solid	N	N		X	X		2	

RUSH

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	[signature]	072817 18:30	Geosyntec	[signature]	7-29-17	AA
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 9:00	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

8/7/2017

TestAmerica Pittsburgh
301 Alpha Drive RIDC Park
Pittsburgh, PA 15238
Phone (412) 963-7058 Fax (412) 963-2468

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Ellen Buelow	Lab PM: Dunlap, David A	Carrier Tracking No(s):	COC No: 180-38494-8381.1
Client Contact: Ashwin Ranna; Aron Krasnopoler	Phone: 412-552-4758	E-Mail: david.dunlap@testamericainc.com		Page: Page 2 of 2
Company: Geosyntec Consultants, Inc.				Job #:
Address: Penn Center West One, Suite 402 1 Penn Center West Drive	Due Date Requested:			
City: Pittsburgh	TAT Requested (days): 1 TAT			
State, Zip: PA, 15276				
Phone:	PO #: MN0832B			
Email: aranna@geosyntec.com; Akrasnopoler@geosyntec.com	WO #:			
Project Name: Former Sperry Remington Site - North IRM	Project #: 18013464			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - VOA-Select List	6010C, 7471B, 9014 - Select ICP Metals, Mercury, Cyanide	8082A, 8270D, PCBs, Select BNA	8260C - VOA-Select List (Trip Blanks only)	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X	N	N	N	A	X	
Trip Blank #1	072817	—	—	Solid	N	N				X		TRIP BLANK FOR ALL SAMPLES
				Solid								
				Solid								
				Solid								
				Solid								
				Solid								
				Solid								
				Solid								
				Solid								
				Solid								
				Solid								
				Solid								

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by:	Date/Time: 072817 18:30	Company: Geosyntec	Received by:	Date/Time: 7-29-17 9:00	Company: TAP
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 180-68716-1

Login Number: 68716
List Number: 1
Creator: Watson, Debbie

List Source: TestAmerica Pittsburgh

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	False	trip blank
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

TestAmerica Job ID: 180-68756-1
Client Project/Site: Former Sperry Remington Site - North IRM

For:
Geosyntec Consultants, Inc.
10211 Wincopin Circle
4'th Floor
Columbia, Maryland 21044

Attn: Mr. Aron Krasnopoler

Authorized for release by:
8/4/2017 4:51:35 PM

David Dunlap, Senior Project Manager
(412)963-2432
david.dunlap@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Job ID: 180-68756-1

Laboratory: TestAmerica Pittsburgh

Narrative

Job Narrative
180-68756-1

Receipt
The samples were received on 8/1/2017 8:40 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 3.1º C and 3.6º C.

GC/MS VOA
Method(s) 8260C: The continuing calibration verification (CCV) analyzed in batch 180-218817 was above method criteria for the following analytes: 1,1,1-trichloroethane and 1,2-dichloroethane. As the CCV was high and these analytes were not detected in the associated samples, the results were reported.

Method(s) 8260C: The continuing calibration verification (CCV) analyzed in batch 180-218817 was below method criteria for the following analyte: 2-butanone (MEK). A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte is considered estimated.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method(s) 8270D LL: The following samples were diluted to bring the concentration of target analytes within the calibration range: W1-b, S1, C 073117 (180-68756-3) and W1-b, S4, C 073117 (180-68756-12). Elevated reporting limits (RLs) are provided.

Method(s) 8270D LL: The following samples were diluted due to the nature of the sample matrix (viscous sample extracts): W1-b, S2, C 073117 (180-68756-6) and W1-b, S3, C 073117 (180-68756-9). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals
Method(s) 7471B: The matrix spike/matrix spike duplicate (MS/MSD) recoveries of sample W1-b, S1, C 073117 (180-68756-3) were below the control limits for mercury. The recovery of the laboratory control sample (LCS) was within the control limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Definitions/Glossary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68756-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc. TestAmerica Job ID: 180-68756-1
Project/Site: Former Sperry Remington Site - North IRM

Laboratory: TestAmerica Pittsburgh

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	11182	03-31-18

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
2540G		Solid	Percent Moisture
2540G		Solid	Percent Solids
8270D LL	3541	Solid	1,4-Dioxane

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68756-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-68756-1	W1-b, S1, A 073117	Solid	07/31/17 09:05	08/01/17 08:40
180-68756-2	W1-b, S1, B 073117	Solid	07/31/17 09:15	08/01/17 08:40
180-68756-3	W1-b, S1, C 073117	Solid	07/31/17 09:25	08/01/17 08:40
180-68756-4	W1-b, S2, A 073117	Solid	07/31/17 09:50	08/01/17 08:40
180-68756-5	W1-b, S2, B 073117	Solid	07/31/17 09:55	08/01/17 08:40
180-68756-6	W1-b, S2, C 073117	Solid	07/31/17 10:05	08/01/17 08:40
180-68756-7	W1-b, S3, A 073117	Solid	07/31/17 10:40	08/01/17 08:40
180-68756-8	W1-b, S3, B 073117	Solid	07/31/17 10:50	08/01/17 08:40
180-68756-9	W1-b, S3, C 073117	Solid	07/31/17 10:55	08/01/17 08:40
180-68756-10	W1-b, S4, A 073117	Solid	07/31/17 11:00	08/01/17 08:40
180-68756-11	W1-b, S4, B 073117	Solid	07/31/17 11:10	08/01/17 08:40
180-68756-12	W1-b, S4, C 073117	Solid	07/31/17 11:15	08/01/17 08:40
180-68756-17	TRIP BLANK #1	Water	07/31/17 00:00	08/01/17 08:40
180-68756-18	DUP 20	Solid	07/31/17 00:00	08/01/17 08:40

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68756-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL PIT
8260C	Volatile Organic Compounds (GC/MS)	SW846	TAL PIT
8270D LL	Semivolatile Organic Compounds by GC/MS - Low Level	SW846	TAL PIT
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL PIT
6010C	Metals (ICP)	SW846	TAL PIT
7471B	Mercury (CVAA)	SW846	TAL PIT
2540G	SM 2540G	SM22	TAL PIT
9014	Cyanide	SW846	TAL PIT

Protocol References:

SM22 = SM22

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68756-1

Client Sample ID: W1-b, S1, A 073117
Date Collected: 07/31/17 09:05
Date Received: 08/01/17 08:40

Lab Sample ID: 180-68756-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218750	08/01/17 13:27	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W1-b, S1, A 073117
Date Collected: 07/31/17 09:05
Date Received: 08/01/17 08:40

Lab Sample ID: 180-68756-1
Matrix: Solid
Percent Solids: 90.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			7.0363 g	5 mL	218835	08/02/17 07:00	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	218817	08/02/17 11:24	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W1-b, S1, B 073117
Date Collected: 07/31/17 09:15
Date Received: 08/01/17 08:40

Lab Sample ID: 180-68756-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218750	08/01/17 13:27	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W1-b, S1, B 073117
Date Collected: 07/31/17 09:15
Date Received: 08/01/17 08:40

Lab Sample ID: 180-68756-2
Matrix: Solid
Percent Solids: 90.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.1489 g	5 mL	218835	08/02/17 07:00	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	218817	08/02/17 11:46	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W1-b, S1, C 073117
Date Collected: 07/31/17 09:25
Date Received: 08/01/17 08:40

Lab Sample ID: 180-68756-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218750	08/01/17 13:27	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W1-b, S1, C 073117
Date Collected: 07/31/17 09:25
Date Received: 08/01/17 08:40

Lab Sample ID: 180-68756-3
Matrix: Solid
Percent Solids: 88.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	0.5 mL	218783	08/01/17 12:15	CBY	TAL PIT

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68756-1

Client Sample ID: W1-b, S1, C 073117

Lab Sample ID: 180-68756-3
Date Collected: 07/31/17 09:25
Matrix: Solid
Date Received: 08/01/17 08:40
Percent Solids: 88.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8270D LL		5	1 mL	1 mL	218840	08/02/17 13:16	VVP	TAL PIT
	Instrument ID: CH731									
Total/NA	Prep	3541			15.0 g	20.0 mL	218784	08/01/17 12:15	CBY	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	218827	08/02/17 06:48	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	218828	08/02/17 06:49	JMO	TAL PIT
Total/NA	Analysis	8082A		5			218951	08/03/17 20:36	JMO	TAL PIT
	Instrument ID: CHGC8									
Total/NA	Prep	3050B			0.98 g	100 mL	218882	08/02/17 11:34	CRM	TAL PIT
Total/NA	Analysis	6010C		1			219034	08/03/17 11:31	RJG	TAL PIT
	Instrument ID: Q									
Total/NA	Prep	7471B			0.68 g	100 mL	218756	08/01/17 13:50	RJR	TAL PIT
Total/NA	Analysis	7471B		1			218849	08/02/17 07:24	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.01 g	50 mL	218907	08/02/17 13:35	JAS	TAL PIT
Total/NA	Analysis	9014		1			219021	08/03/17 11:34	JAS	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: W1-b, S2, A 073117

Lab Sample ID: 180-68756-4
Date Collected: 07/31/17 09:50
Matrix: Solid
Date Received: 08/01/17 08:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218750	08/01/17 13:27	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W1-b, S2, A 073117

Lab Sample ID: 180-68756-4
Date Collected: 07/31/17 09:50
Matrix: Solid
Date Received: 08/01/17 08:40
Percent Solids: 90.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.4868 g	5 mL	218835	08/02/17 07:00	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	218817	08/02/17 12:54	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W1-b, S2, B 073117

Lab Sample ID: 180-68756-5
Date Collected: 07/31/17 09:55
Matrix: Solid
Date Received: 08/01/17 08:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218750	08/01/17 13:27	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68756-1

Client Sample ID: W1-b, S2, B 073117

Lab Sample ID: 180-68756-5
Date Collected: 07/31/17 09:55
Matrix: Solid
Date Received: 08/01/17 08:40
Percent Solids: 91.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.0159 g	5 mL	218835	08/02/17 07:00	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	218817	08/02/17 12:31	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W1-b, S2, C 073117

Lab Sample ID: 180-68756-6
Date Collected: 07/31/17 10:05
Matrix: Solid
Date Received: 08/01/17 08:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218750	08/01/17 13:27	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W1-b, S2, C 073117

Lab Sample ID: 180-68756-6
Date Collected: 07/31/17 10:05
Matrix: Solid
Date Received: 08/01/17 08:40
Percent Solids: 88.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	0.5 mL	218783	08/01/17 12:15	CBY	TAL PIT
Total/NA	Analysis	8270D LL		20	1 mL	1 mL	219016	08/03/17 18:48	VVP	TAL PIT
	Instrument ID: CH731									
Total/NA	Prep	3541			15.2 g	20.0 mL	218784	08/01/17 12:15	CBY	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	218827	08/02/17 06:48	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	218828	08/02/17 06:49	JMO	TAL PIT
Total/NA	Analysis	8082A		1			218834	08/02/17 14:19	JMO	TAL PIT
	Instrument ID: CHGC8									
Total/NA	Prep	3050B			0.94 g	100 mL	218882	08/02/17 11:34	CRM	TAL PIT
Total/NA	Analysis	6010C		1			219034	08/03/17 11:36	RJG	TAL PIT
	Instrument ID: Q									
Total/NA	Prep	7471B			0.59 g	100 mL	218756	08/01/17 13:50	RJR	TAL PIT
Total/NA	Analysis	7471B		1			218849	08/02/17 07:38	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.03 g	50 mL	218907	08/02/17 13:35	JAS	TAL PIT
Total/NA	Analysis	9014		1			219021	08/03/17 11:36	JAS	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: W1-b, S3, A 073117

Lab Sample ID: 180-68756-7
Date Collected: 07/31/17 10:40
Matrix: Solid
Date Received: 08/01/17 08:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218750	08/01/17 13:27	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W1-b, S3, A 073117

Lab Sample ID: 180-68756-7
Date Collected: 07/31/17 10:40
Matrix: Solid
Date Received: 08/01/17 08:40
Percent Solids: 89.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.6949 g	5 mL	218835	08/02/17 07:00	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	218817	08/02/17 13:17	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W1-b, S3, B 073117

Lab Sample ID: 180-68756-8
Date Collected: 07/31/17 10:50
Matrix: Solid
Date Received: 08/01/17 08:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218750	08/01/17 13:27	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W1-b, S3, B 073117

Lab Sample ID: 180-68756-8
Date Collected: 07/31/17 10:50
Matrix: Solid
Date Received: 08/01/17 08:40
Percent Solids: 90.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.1799 g	5 mL	218835	08/02/17 07:00	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	218817	08/02/17 13:40	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W1-b, S3, C 073117

Lab Sample ID: 180-68756-9
Date Collected: 07/31/17 10:55
Matrix: Solid
Date Received: 08/01/17 08:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218750	08/01/17 13:27	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W1-b, S3, C 073117

Lab Sample ID: 180-68756-9
Date Collected: 07/31/17 10:55
Matrix: Solid
Date Received: 08/01/17 08:40
Percent Solids: 89.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.1 g	0.5 mL	218783	08/01/17 12:15	CBY	TAL PIT
Total/NA	Analysis	8270D LL		2	1 mL	1 mL	219016	08/03/17 19:15	VVP	TAL PIT
	Instrument ID: CH731									
Total/NA	Prep	3541			15.1 g	20.0 mL	218784	08/01/17 12:15	CBY	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	218827	08/02/17 06:48	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	218828	08/02/17 06:49	JMO	TAL PIT
Total/NA	Analysis	8082A		1			218834	08/02/17 14:39	JMO	TAL PIT
	Instrument ID: CHGC8									
Total/NA	Prep	3050B			0.95 g	100 mL	218882	08/02/17 11:34	CRM	TAL PIT

Client Sample ID: W1-b, S3, C 073117

Lab Sample ID: 180-68756-9
Date Collected: 07/31/17 10:55
Matrix: Solid
Date Received: 08/01/17 08:40
Percent Solids: 89.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	6010C		1			219034	08/03/17 11:41	RJG	TAL PIT
	Instrument ID: Q									
Total/NA	Prep	7471B			0.59 g	100 mL	218756	08/01/17 13:50	RJR	TAL PIT
Total/NA	Analysis	7471B		1			218849	08/02/17 07:44	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.02 g	50 mL	218907	08/02/17 13:35	JAS	TAL PIT
Total/NA	Analysis	9014		1			219021	08/03/17 11:38	JAS	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: W1-b, S4, A 073117

Lab Sample ID: 180-68756-10
Date Collected: 07/31/17 11:00
Matrix: Solid
Date Received: 08/01/17 08:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218750	08/01/17 13:27	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W1-b, S4, A 073117

Lab Sample ID: 180-68756-10
Date Collected: 07/31/17 11:00
Matrix: Solid
Date Received: 08/01/17 08:40
Percent Solids: 88.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.044 g	5 mL	218835	08/02/17 07:00	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	218817	08/02/17 14:02	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W1-b, S4, B 073117

Lab Sample ID: 180-68756-11
Date Collected: 07/31/17 11:10
Matrix: Solid
Date Received: 08/01/17 08:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218750	08/01/17 13:27	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W1-b, S4, B 073117

Lab Sample ID: 180-68756-11
Date Collected: 07/31/17 11:10
Matrix: Solid
Date Received: 08/01/17 08:40
Percent Solids: 90.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			3.6597 g	5 mL	218835	08/02/17 07:00	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	218817	08/02/17 14:24	KLG	TAL PIT
	Instrument ID: CHHP3									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68756-1

Client Sample ID: W1-b, S4, C 073117
Date Collected: 07/31/17 11:15
Date Received: 08/01/17 08:40

Lab Sample ID: 180-68756-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218750	08/01/17 13:27	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W1-b, S4, C 073117
Date Collected: 07/31/17 11:15
Date Received: 08/01/17 08:40

Lab Sample ID: 180-68756-12
Matrix: Solid
Percent Solids: 89.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.1 g	0.5 mL	218783	08/01/17 12:15	CBY	TAL PIT
Total/NA	Analysis	8270D LL		5	1 mL	1 mL	219016	08/03/17 19:43	VVP	TAL PIT
	Instrument ID: CH731									
Total/NA	Prep	3541			15.0 g	20.0 mL	218784	08/01/17 12:15	CBY	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	218827	08/02/17 06:48	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	218828	08/02/17 06:49	JMO	TAL PIT
Total/NA	Analysis	8082A		1			218834	08/02/17 14:59	JMO	TAL PIT
	Instrument ID: CHGC8									
Total/NA	Prep	3050B			0.99 g	100 mL	218882	08/02/17 11:34	CRM	TAL PIT
Total/NA	Analysis	6010C		1			219034	08/03/17 11:46	RJG	TAL PIT
	Instrument ID: Q									
Total/NA	Prep	7471B			0.67 g	100 mL	218756	08/01/17 13:50	RJR	TAL PIT
Total/NA	Analysis	7471B		1			218849	08/02/17 07:46	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.04 g	50 mL	218907	08/02/17 13:35	JAS	TAL PIT
Total/NA	Analysis	9014		1			219021	08/03/17 11:39	JAS	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: TRIP BLANK #1
Date Collected: 07/31/17 00:00
Date Received: 08/01/17 08:40

Lab Sample ID: 180-68756-17
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	218804	08/02/17 04:34	FBB	TAL PIT
	Instrument ID: CHHP5									

Client Sample ID: DUP 20
Date Collected: 07/31/17 00:00
Date Received: 08/01/17 08:40

Lab Sample ID: 180-68756-18
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218750	08/01/17 13:27	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68756-1

Client Sample ID: DUP 20
Date Collected: 07/31/17 00:00
Date Received: 08/01/17 08:40

Lab Sample ID: 180-68756-18
Matrix: Solid
Percent Solids: 88.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.8092 g	5 mL	218835	08/02/17 07:00	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	218817	08/02/17 14:47	KLG	TAL PIT
	Instrument ID: CHHP3									

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Analyst References:

Lab: TAL PIT

Batch Type: Cleanup

JMO = John Oravec

Batch Type: Prep

CBY = Charles Yushinski

CRM = Caitlin McEvoy

JAS = Joshua Schmidt

KLG = Kathy Gordon

RJR = Ron Rosenbaum

Batch Type: Analysis

FBB = Frank Bungard

JAS = Joshua Schmidt

JMO = John Oravec

JTL = Justin Landry

KLG = Kathy Gordon

RJG = Rob Good

RJR = Ron Rosenbaum

VVP = Vincent Piccolino

Client Sample ID: W1-b, S1, A 073117

Lab Sample ID: 180-68756-1
Date Collected: 07/31/17 09:05
Matrix: Solid
Date Received: 08/01/17 08:40
Percent Solids: 90.9

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.016	0.0025	mg/Kg	☼	08/02/17 07:00	08/02/17 11:24	1
Benzene	ND		0.0039	0.0015	mg/Kg	☼	08/02/17 07:00	08/02/17 11:24	1
2-Butanone (MEK)	ND		0.0039	0.0023	mg/Kg	☼	08/02/17 07:00	08/02/17 11:24	1
Carbon tetrachloride	ND		0.0039	0.0026	mg/Kg	☼	08/02/17 07:00	08/02/17 11:24	1
Chlorobenzene	ND		0.0039	0.0012	mg/Kg	☼	08/02/17 07:00	08/02/17 11:24	1
Chloroform	ND		0.0039	0.0017	mg/Kg	☼	08/02/17 07:00	08/02/17 11:24	1
cis-1,2-Dichloroethene	ND		0.0039	0.0012	mg/Kg	☼	08/02/17 07:00	08/02/17 11:24	1
1,2-Dichlorobenzene	ND		0.0039	0.0031	mg/Kg	☼	08/02/17 07:00	08/02/17 11:24	1
1,3-Dichlorobenzene	ND		0.0039	0.0012	mg/Kg	☼	08/02/17 07:00	08/02/17 11:24	1
1,4-Dichlorobenzene	ND		0.0039	0.00080	mg/Kg	☼	08/02/17 07:00	08/02/17 11:24	1
1,1-Dichloroethane	ND		0.0039	0.0014	mg/Kg	☼	08/02/17 07:00	08/02/17 11:24	1
1,2-Dichloroethane	ND		0.0039	0.0011	mg/Kg	☼	08/02/17 07:00	08/02/17 11:24	1
1,1-Dichloroethene	ND		0.0039	0.0022	mg/Kg	☼	08/02/17 07:00	08/02/17 11:24	1
Ethylbenzene	ND		0.0039	0.0017	mg/Kg	☼	08/02/17 07:00	08/02/17 11:24	1
Methylene Chloride	ND		0.0039	0.0018	mg/Kg	☼	08/02/17 07:00	08/02/17 11:24	1
Methyl tert-butyl ether	ND		0.0039	0.0029	mg/Kg	☼	08/02/17 07:00	08/02/17 11:24	1
n-Butylbenzene	ND		0.0039	0.0030	mg/Kg	☼	08/02/17 07:00	08/02/17 11:24	1
N-Propylbenzene	ND		0.0039	0.0016	mg/Kg	☼	08/02/17 07:00	08/02/17 11:24	1
sec-Butylbenzene	ND		0.0039	0.0019	mg/Kg	☼	08/02/17 07:00	08/02/17 11:24	1
tert-Butylbenzene	ND		0.0039	0.0014	mg/Kg	☼	08/02/17 07:00	08/02/17 11:24	1
Tetrachloroethene	ND		0.0039	0.0016	mg/Kg	☼	08/02/17 07:00	08/02/17 11:24	1
Toluene	ND		0.0039	0.0013	mg/Kg	☼	08/02/17 07:00	08/02/17 11:24	1
trans-1,2-Dichloroethene	ND		0.0039	0.0020	mg/Kg	☼	08/02/17 07:00	08/02/17 11:24	1
1,1,1-Trichloroethane	ND		0.0039	0.0020	mg/Kg	☼	08/02/17 07:00	08/02/17 11:24	1
Trichloroethene	ND		0.0039	0.0012	mg/Kg	☼	08/02/17 07:00	08/02/17 11:24	1
1,2,4-Trimethylbenzene	ND		0.0039	0.0011	mg/Kg	☼	08/02/17 07:00	08/02/17 11:24	1
1,3,5-Trimethylbenzene	ND		0.0039	0.0013	mg/Kg	☼	08/02/17 07:00	08/02/17 11:24	1
Vinyl chloride	ND		0.0039	0.0029	mg/Kg	☼	08/02/17 07:00	08/02/17 11:24	1
Xylenes, Total	ND		0.0078	0.0034	mg/Kg	☼	08/02/17 07:00	08/02/17 11:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*63 - 120*	*08/02/17 07:00*	*08/02/17 11:24*	*1*
Dibromofluoromethane (Surr)	*99*		*68 - 121*	*08/02/17 07:00*	*08/02/17 11:24*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*52 - 124*	*08/02/17 07:00*	*08/02/17 11:24*	*1*
Toluene-d8 (Surr)	*110*		*72 - 127*	*08/02/17 07:00*	*08/02/17 11:24*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.1**		0.1	0.1	%			08/01/17 13:27	1
Percent Solids	**90.9**		0.1	0.1	%			08/01/17 13:27	1

Client Sample ID: W1-b, S1, B 073117

Lab Sample ID: 180-68756-2
Date Collected: 07/31/17 09:15
Matrix: Solid
Date Received: 08/01/17 08:40
Percent Solids: 90.1

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.018	0.0028	mg/Kg	☼	08/02/17 07:00	08/02/17 11:46	1
Benzene	ND		0.0045	0.0018	mg/Kg	☼	08/02/17 07:00	08/02/17 11:46	1
2-Butanone (MEK)	ND		0.0045	0.0026	mg/Kg	☼	08/02/17 07:00	08/02/17 11:46	1

Client Sample ID: W1-b, S1, B 073117 — Lab Sample ID: 180-68756-2

Date Collected: 07/31/17 09:15 — **Matrix: Solid**
Date Received: 08/01/17 08:40 — **Percent Solids: 90.1**

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	ND		0.0045	0.0030	mg/Kg	☼	08/02/17 07:00	08/02/17 11:46	1
Chlorobenzene	ND		0.0045	0.0014	mg/Kg	☼	08/02/17 07:00	08/02/17 11:46	1
Chloroform	ND		0.0045	0.0019	mg/Kg	☼	08/02/17 07:00	08/02/17 11:46	1
cis-1,2-Dichloroethene	ND		0.0045	0.0014	mg/Kg	☼	08/02/17 07:00	08/02/17 11:46	1
1,2-Dichlorobenzene	ND		0.0045	0.0036	mg/Kg	☼	08/02/17 07:00	08/02/17 11:46	1
1,3-Dichlorobenzene	ND		0.0045	0.0014	mg/Kg	☼	08/02/17 07:00	08/02/17 11:46	1
1,4-Dichlorobenzene	ND		0.0045	0.00092	mg/Kg	☼	08/02/17 07:00	08/02/17 11:46	1
1,1-Dichloroethane	ND		0.0045	0.0016	mg/Kg	☼	08/02/17 07:00	08/02/17 11:46	1
1,2-Dichloroethane	ND		0.0045	0.0013	mg/Kg	☼	08/02/17 07:00	08/02/17 11:46	1
1,1-Dichloroethene	ND		0.0045	0.0026	mg/Kg	☼	08/02/17 07:00	08/02/17 11:46	1
Ethylbenzene	ND		0.0045	0.0019	mg/Kg	☼	08/02/17 07:00	08/02/17 11:46	1
Methylene Chloride	ND		0.0045	0.0021	mg/Kg	☼	08/02/17 07:00	08/02/17 11:46	1
Methyl tert-butyl ether	ND		0.0045	0.0033	mg/Kg	☼	08/02/17 07:00	08/02/17 11:46	1
n-Butylbenzene	ND		0.0045	0.0034	mg/Kg	☼	08/02/17 07:00	08/02/17 11:46	1
N-Propylbenzene	ND		0.0045	0.0019	mg/Kg	☼	08/02/17 07:00	08/02/17 11:46	1
sec-Butylbenzene	ND		0.0045	0.0022	mg/Kg	☼	08/02/17 07:00	08/02/17 11:46	1
tert-Butylbenzene	ND		0.0045	0.0017	mg/Kg	☼	08/02/17 07:00	08/02/17 11:46	1
Tetrachloroethene	ND		0.0045	0.0018	mg/Kg	☼	08/02/17 07:00	08/02/17 11:46	1
Toluene	ND		0.0045	0.0015	mg/Kg	☼	08/02/17 07:00	08/02/17 11:46	1
trans-1,2-Dichloroethene	ND		0.0045	0.0023	mg/Kg	☼	08/02/17 07:00	08/02/17 11:46	1
1,1,1-Trichloroethane	ND		0.0045	0.0023	mg/Kg	☼	08/02/17 07:00	08/02/17 11:46	1
Trichloroethene	ND		0.0045	0.0014	mg/Kg	☼	08/02/17 07:00	08/02/17 11:46	1
1,2,4-Trimethylbenzene	ND		0.0045	0.0012	mg/Kg	☼	08/02/17 07:00	08/02/17 11:46	1
1,3,5-Trimethylbenzene	ND		0.0045	0.0016	mg/Kg	☼	08/02/17 07:00	08/02/17 11:46	1
Vinyl chloride	ND		0.0045	0.0033	mg/Kg	☼	08/02/17 07:00	08/02/17 11:46	1
Xylenes, Total	ND		0.0090	0.0039	mg/Kg	☼	08/02/17 07:00	08/02/17 11:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*63 - 120*	*08/02/17 07:00*	*08/02/17 11:46*	*1*
Dibromofluoromethane (Surr)	*99*		*68 - 121*	*08/02/17 07:00*	*08/02/17 11:46*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*52 - 124*	*08/02/17 07:00*	*08/02/17 11:46*	*1*
Toluene-d8 (Surr)	*111*		*72 - 127*	*08/02/17 07:00*	*08/02/17 11:46*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.9**		0.1	0.1	%			08/01/17 13:27	1
Percent Solids	**90.1**		0.1	0.1	%			08/01/17 13:27	1

Client Sample ID: W1-b, S1, C 073117 — Lab Sample ID: 180-68756-3

Date Collected: 07/31/17 09:25 — **Matrix: Solid**
Date Received: 08/01/17 08:40 — **Percent Solids: 88.8**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.037**	**J**	0.038	0.013	mg/Kg	☼	08/01/17 12:15	08/02/17 13:16	5
Acenaphthylene	**0.59**		0.038	0.013	mg/Kg	☼	08/01/17 12:15	08/02/17 13:16	5
Anthracene	**0.41**		0.038	0.014	mg/Kg	☼	08/01/17 12:15	08/02/17 13:16	5
Benzo[a]anthracene	**1.2**		0.038	0.015	mg/Kg	☼	08/01/17 12:15	08/02/17 13:16	5
Benzo[a]pyrene	**1.2**		0.038	0.016	mg/Kg	☼	08/01/17 12:15	08/02/17 13:16	5
Benzo[b]fluoranthene	**1.7**		0.038	0.016	mg/Kg	☼	08/01/17 12:15	08/02/17 13:16	5

Client Sample ID: W1-b, S1, C 073117 **Lab Sample ID: 180-68756-3**
Date Collected: 07/31/17 09:25 **Matrix: Solid**
Date Received: 08/01/17 08:40 **Percent Solids: 88.8**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	**1.4**		0.038	0.016	mg/Kg	☼	08/01/17 12:15	08/02/17 13:16	5
Benzo[k]fluoranthene	**0.61**		0.038	0.013	mg/Kg	☼	08/01/17 12:15	08/02/17 13:16	5
Chrysene	**1.3**		0.038	0.015	mg/Kg	☼	08/01/17 12:15	08/02/17 13:16	5
Dibenz(a,h)anthracene	**0.33**		0.038	0.016	mg/Kg	☼	08/01/17 12:15	08/02/17 13:16	5
Dibenzofuran	**0.061**	**J**	0.19	0.015	mg/Kg	☼	08/01/17 12:15	08/02/17 13:16	5
2,4-Dinitrotoluene	ND		190	25	ug/Kg	☼	08/01/17 12:15	08/02/17 13:16	5
1,4-Dioxane	ND		0.38	0.028	mg/Kg	☼	08/01/17 12:15	08/02/17 13:16	5
Fluoranthene	**2.6**		0.038	0.015	mg/Kg	☼	08/01/17 12:15	08/02/17 13:16	5
Fluorene	**0.12**		0.038	0.013	mg/Kg	☼	08/01/17 12:15	08/02/17 13:16	5
Hexachlorobenzene	ND		0.038	0.015	mg/Kg	☼	08/01/17 12:15	08/02/17 13:16	5
Hexachlorobutadiene	ND		38	12	ug/Kg	☼	08/01/17 12:15	08/02/17 13:16	5
Hexachloroethane	ND		190	13	ug/Kg	☼	08/01/17 12:15	08/02/17 13:16	5
Indeno[1,2,3-cd]pyrene	**1.1**		0.038	0.015	mg/Kg	☼	08/01/17 12:15	08/02/17 13:16	5
2-Methylphenol	ND		0.19	0.017	mg/Kg	☼	08/01/17 12:15	08/02/17 13:16	5
Methylphenol, 3 & 4	ND		0.19	0.017	mg/Kg	☼	08/01/17 12:15	08/02/17 13:16	5
Naphthalene	**0.094**		0.038	0.013	mg/Kg	☼	08/01/17 12:15	08/02/17 13:16	5
Nitrobenzene	ND		380	14	ug/Kg	☼	08/01/17 12:15	08/02/17 13:16	5
Pentachlorophenol	ND		0.96	0.36	mg/Kg	☼	08/01/17 12:15	08/02/17 13:16	5
Phenanthrene	**1.5**		0.038	0.016	mg/Kg	☼	08/01/17 12:15	08/02/17 13:16	5
Phenol	ND		0.19	0.025	mg/Kg	☼	08/01/17 12:15	08/02/17 13:16	5
Pyrene	**2.0**		0.038	0.017	mg/Kg	☼	08/01/17 12:15	08/02/17 13:16	5
Pyridine	ND		190	18	ug/Kg	☼	08/01/17 12:15	08/02/17 13:16	5
2,4,5-Trichlorophenol	ND		190	18	ug/Kg	☼	08/01/17 12:15	08/02/17 13:16	5
2,4,6-Trichlorophenol	ND		190	16	ug/Kg	☼	08/01/17 12:15	08/02/17 13:16	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*81*		*42 - 100*	*08/01/17 12:15*	*08/02/17 13:16*	*5*
2-Fluorophenol (Surr)	*70*		*21 - 107*	*08/01/17 12:15*	*08/02/17 13:16*	*5*
Nitrobenzene-d5 (Surr)	*72*		*35 - 109*	*08/01/17 12:15*	*08/02/17 13:16*	*5*
Phenol-d5 (Surr)	*70*		*29 - 105*	*08/01/17 12:15*	*08/02/17 13:16*	*5*
Terphenyl-d14 (Surr)	*79*		*36 - 113*	*08/01/17 12:15*	*08/02/17 13:16*	*5*
2,4,6-Tribromophenol (Surr)	*82*		*20 - 134*	*08/01/17 12:15*	*08/02/17 13:16*	*5*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.094	0.050	mg/Kg	☼	08/01/17 12:15	08/03/17 20:36	5
PCB-1221	ND		0.094	0.049	mg/Kg	☼	08/01/17 12:15	08/03/17 20:36	5
PCB-1232	ND		0.094	0.037	mg/Kg	☼	08/01/17 12:15	08/03/17 20:36	5
PCB-1242	ND		0.094	0.075	mg/Kg	☼	08/01/17 12:15	08/03/17 20:36	5
PCB-1248	**9.1**		0.094	0.045	mg/Kg	☼	08/01/17 12:15	08/03/17 20:36	5
PCB-1254	**4.7**		0.094	0.041	mg/Kg	☼	08/01/17 12:15	08/03/17 20:36	5
PCB-1260	**0.96**		0.094	0.063	mg/Kg	☼	08/01/17 12:15	08/03/17 20:36	5
PCB-1262	ND		0.094	0.067	mg/Kg	☼	08/01/17 12:15	08/03/17 20:36	5
PCB-1268	ND		0.094	0.029	mg/Kg	☼	08/01/17 12:15	08/03/17 20:36	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*99*		*23 - 150*	*08/01/17 12:15*	*08/03/17 20:36*	*5*
DCB Decachlorobiphenyl (Surr)	*114*		*23 - 150*	*08/01/17 12:15*	*08/03/17 20:36*	*5*
Tetrachloro-m-xylene (Surr)	*85*		*27 - 138*	*08/01/17 12:15*	*08/03/17 20:36*	*5*
Tetrachloro-m-xylene (Surr)	*87*		*27 - 138*	*08/01/17 12:15*	*08/03/17 20:36*	*5*

Client Sample ID: W1-b, S1, C 073117 — Lab Sample ID: 180-68756-3

Date Collected: 07/31/17 09:25 — **Matrix: Solid**
Date Received: 08/01/17 08:40 — **Percent Solids: 88.8**

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.6		1.1	0.51	mg/Kg	☼	08/02/17 11:34	08/03/17 11:31	1
Barium	75		23	6.2	mg/Kg	☼	08/02/17 11:34	08/03/17 11:31	1
Beryllium	0.35	J	0.46	0.12	mg/Kg	☼	08/02/17 11:34	08/03/17 11:31	1
Cadmium	0.14	J	0.57	0.13	mg/Kg	☼	08/02/17 11:34	08/03/17 11:31	1
Chromium	9.7		0.57	0.15	mg/Kg	☼	08/02/17 11:34	08/03/17 11:31	1
Copper	41		2.9	0.88	mg/Kg	☼	08/02/17 11:34	08/03/17 11:31	1
Lead	64		1.1	0.38	mg/Kg	☼	08/02/17 11:34	08/03/17 11:31	1
Manganese	310		1.7	0.47	mg/Kg	☼	08/02/17 11:34	08/03/17 11:31	1
Nickel	21		4.6	1.0	mg/Kg	☼	08/02/17 11:34	08/03/17 11:31	1
Selenium	ND		1.1	0.46	mg/Kg	☼	08/02/17 11:34	08/03/17 11:31	1
Silver	ND		0.57	0.19	mg/Kg	☼	08/02/17 11:34	08/03/17 11:31	1
Zinc	95		2.3	1.2	mg/Kg	☼	08/02/17 11:34	08/03/17 11:31	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.058	F1 F2	0.033	0.0073	mg/Kg	☼	08/01/17 13:50	08/02/17 07:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	11.2		0.1	0.1	%			08/01/17 13:27	1
Percent Solids	88.8		0.1	0.1	%			08/01/17 13:27	1
Cyanide, Total	ND		0.56	0.17	mg/Kg	☼	08/02/17 13:35	08/03/17 11:34	1

Client Sample ID: W1-b, S2, A 073117 — Lab Sample ID: 180-68756-4

Date Collected: 07/31/17 09:50 — **Matrix: Solid**
Date Received: 08/01/17 08:40 — **Percent Solids: 90.5**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.025	0.0039	mg/Kg	☼	08/02/17 07:00	08/02/17 12:54	1
Benzene	ND		0.0062	0.0024	mg/Kg	☼	08/02/17 07:00	08/02/17 12:54	1
2-Butanone (MEK)	ND		0.0062	0.0036	mg/Kg	☼	08/02/17 07:00	08/02/17 12:54	1
Carbon tetrachloride	ND		0.0062	0.0041	mg/Kg	☼	08/02/17 07:00	08/02/17 12:54	1
Chlorobenzene	ND		0.0062	0.0019	mg/Kg	☼	08/02/17 07:00	08/02/17 12:54	1
Chloroform	ND		0.0062	0.0026	mg/Kg	☼	08/02/17 07:00	08/02/17 12:54	1
cis-1,2-Dichloroethene	ND		0.0062	0.0019	mg/Kg	☼	08/02/17 07:00	08/02/17 12:54	1
1,2-Dichlorobenzene	ND		0.0062	0.0050	mg/Kg	☼	08/02/17 07:00	08/02/17 12:54	1
1,3-Dichlorobenzene	ND		0.0062	0.0020	mg/Kg	☼	08/02/17 07:00	08/02/17 12:54	1
1,4-Dichlorobenzene	ND		0.0062	0.0013	mg/Kg	☼	08/02/17 07:00	08/02/17 12:54	1
1,1-Dichloroethane	ND		0.0062	0.0022	mg/Kg	☼	08/02/17 07:00	08/02/17 12:54	1
1,2-Dichloroethane	ND		0.0062	0.0018	mg/Kg	☼	08/02/17 07:00	08/02/17 12:54	1
1,1-Dichloroethene	ND		0.0062	0.0035	mg/Kg	☼	08/02/17 07:00	08/02/17 12:54	1
Ethylbenzene	ND		0.0062	0.0027	mg/Kg	☼	08/02/17 07:00	08/02/17 12:54	1
Methylene Chloride	ND		0.0062	0.0029	mg/Kg	☼	08/02/17 07:00	08/02/17 12:54	1
Methyl tert-butyl ether	ND		0.0062	0.0045	mg/Kg	☼	08/02/17 07:00	08/02/17 12:54	1
n-Butylbenzene	ND		0.0062	0.0047	mg/Kg	☼	08/02/17 07:00	08/02/17 12:54	1
N-Propylbenzene	ND		0.0062	0.0026	mg/Kg	☼	08/02/17 07:00	08/02/17 12:54	1
sec-Butylbenzene	ND		0.0062	0.0030	mg/Kg	☼	08/02/17 07:00	08/02/17 12:54	1
tert-Butylbenzene	ND		0.0062	0.0023	mg/Kg	☼	08/02/17 07:00	08/02/17 12:54	1
Tetrachloroethene	ND		0.0062	0.0025	mg/Kg	☼	08/02/17 07:00	08/02/17 12:54	1

Client Sample ID: W1-b, S2, A 073117 — Lab Sample ID: 180-68756-4

Date Collected: 07/31/17 09:50 — **Matrix: Solid**
Date Received: 08/01/17 08:40 — **Percent Solids: 90.5**

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		0.0062	0.0021	mg/Kg	☼	08/02/17 07:00	08/02/17 12:54	1
trans-1,2-Dichloroethene	ND		0.0062	0.0031	mg/Kg	☼	08/02/17 07:00	08/02/17 12:54	1
1,1,1-Trichloroethane	ND		0.0062	0.0031	mg/Kg	☼	08/02/17 07:00	08/02/17 12:54	1
Trichloroethene	ND		0.0062	0.0019	mg/Kg	☼	08/02/17 07:00	08/02/17 12:54	1
1,2,4-Trimethylbenzene	ND		0.0062	0.0017	mg/Kg	☼	08/02/17 07:00	08/02/17 12:54	1
1,3,5-Trimethylbenzene	ND		0.0062	0.0021	mg/Kg	☼	08/02/17 07:00	08/02/17 12:54	1
Vinyl chloride	ND		0.0062	0.0045	mg/Kg	☼	08/02/17 07:00	08/02/17 12:54	1
Xylenes, Total	ND		0.012	0.0053	mg/Kg	☼	08/02/17 07:00	08/02/17 12:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*63 - 120*	*08/02/17 07:00*	*08/02/17 12:54*	*1*
Dibromofluoromethane (Surr)	*96*		*68 - 121*	*08/02/17 07:00*	*08/02/17 12:54*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*52 - 124*	*08/02/17 07:00*	*08/02/17 12:54*	*1*
Toluene-d8 (Surr)	*107*		*72 - 127*	*08/02/17 07:00*	*08/02/17 12:54*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.5**		0.1	0.1	%			08/01/17 13:27	1
Percent Solids	**90.5**		0.1	0.1	%			08/01/17 13:27	1

Client Sample ID: W1-b, S2, B 073117 — Lab Sample ID: 180-68756-5

Date Collected: 07/31/17 09:55 — **Matrix: Solid**
Date Received: 08/01/17 08:40 — **Percent Solids: 91.3**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.018	0.0029	mg/Kg	☼	08/02/17 07:00	08/02/17 12:31	1
Benzene	ND		0.0045	0.0018	mg/Kg	☼	08/02/17 07:00	08/02/17 12:31	1
2-Butanone (MEK)	ND		0.0045	0.0026	mg/Kg	☼	08/02/17 07:00	08/02/17 12:31	1
Carbon tetrachloride	ND		0.0045	0.0030	mg/Kg	☼	08/02/17 07:00	08/02/17 12:31	1
Chlorobenzene	ND		0.0045	0.0014	mg/Kg	☼	08/02/17 07:00	08/02/17 12:31	1
Chloroform	ND		0.0045	0.0019	mg/Kg	☼	08/02/17 07:00	08/02/17 12:31	1
cis-1,2-Dichloroethene	ND		0.0045	0.0014	mg/Kg	☼	08/02/17 07:00	08/02/17 12:31	1
1,2-Dichlorobenzene	ND		0.0045	0.0037	mg/Kg	☼	08/02/17 07:00	08/02/17 12:31	1
1,3-Dichlorobenzene	ND		0.0045	0.0015	mg/Kg	☼	08/02/17 07:00	08/02/17 12:31	1
1,4-Dichlorobenzene	ND		0.0045	0.00093	mg/Kg	☼	08/02/17 07:00	08/02/17 12:31	1
1,1-Dichloroethane	ND		0.0045	0.0016	mg/Kg	☼	08/02/17 07:00	08/02/17 12:31	1
1,2-Dichloroethane	ND		0.0045	0.0013	mg/Kg	☼	08/02/17 07:00	08/02/17 12:31	1
1,1-Dichloroethene	ND		0.0045	0.0026	mg/Kg	☼	08/02/17 07:00	08/02/17 12:31	1
Ethylbenzene	ND		0.0045	0.0020	mg/Kg	☼	08/02/17 07:00	08/02/17 12:31	1
Methylene Chloride	ND		0.0045	0.0021	mg/Kg	☼	08/02/17 07:00	08/02/17 12:31	1
Methyl tert-butyl ether	ND		0.0045	0.0034	mg/Kg	☼	08/02/17 07:00	08/02/17 12:31	1
n-Butylbenzene	ND		0.0045	0.0034	mg/Kg	☼	08/02/17 07:00	08/02/17 12:31	1
N-Propylbenzene	ND		0.0045	0.0019	mg/Kg	☼	08/02/17 07:00	08/02/17 12:31	1
sec-Butylbenzene	ND		0.0045	0.0022	mg/Kg	☼	08/02/17 07:00	08/02/17 12:31	1
tert-Butylbenzene	ND		0.0045	0.0017	mg/Kg	☼	08/02/17 07:00	08/02/17 12:31	1
Tetrachloroethene	ND		0.0045	0.0018	mg/Kg	☼	08/02/17 07:00	08/02/17 12:31	1
Toluene	ND		0.0045	0.0015	mg/Kg	☼	08/02/17 07:00	08/02/17 12:31	1
trans-1,2-Dichloroethene	ND		0.0045	0.0023	mg/Kg	☼	08/02/17 07:00	08/02/17 12:31	1
1,1,1-Trichloroethane	ND		0.0045	0.0023	mg/Kg	☼	08/02/17 07:00	08/02/17 12:31	1

Client Sample ID: W1-b, S2, B 073117

Lab Sample ID: 180-68756-5
Date Collected: 07/31/17 09:55
Matrix: Solid
Date Received: 08/01/17 08:40
Percent Solids: 91.3

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	ND		0.0045	0.0014	mg/Kg	☼	08/02/17 07:00	08/02/17 12:31	1
1,2,4-Trimethylbenzene	ND		0.0045	0.0012	mg/Kg	☼	08/02/17 07:00	08/02/17 12:31	1
1,3,5-Trimethylbenzene	ND		0.0045	0.0016	mg/Kg	☼	08/02/17 07:00	08/02/17 12:31	1
Vinyl chloride	ND		0.0045	0.0033	mg/Kg	☼	08/02/17 07:00	08/02/17 12:31	1
Xylenes, Total	ND		0.0091	0.0039	mg/Kg	☼	08/02/17 07:00	08/02/17 12:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*63 - 120*	*08/02/17 07:00*	*08/02/17 12:31*	*1*
Dibromofluoromethane (Surr)	*99*		*68 - 121*	*08/02/17 07:00*	*08/02/17 12:31*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*52 - 124*	*08/02/17 07:00*	*08/02/17 12:31*	*1*
Toluene-d8 (Surr)	*108*		*72 - 127*	*08/02/17 07:00*	*08/02/17 12:31*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**8.7**		0.1	0.1	%			08/01/17 13:27	1
Percent Solids	**91.3**		0.1	0.1	%			08/01/17 13:27	1

Client Sample ID: W1-b, S2, C 073117

Lab Sample ID: 180-68756-6
Date Collected: 07/31/17 10:05
Matrix: Solid
Date Received: 08/01/17 08:40
Percent Solids: 88.9

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.15	0.050	mg/Kg	☼	08/01/17 12:15	08/03/17 18:48	20
Acenaphthylene	**0.12**	**J**	0.15	0.051	mg/Kg	☼	08/01/17 12:15	08/03/17 18:48	20
Anthracene	**0.087**	**J**	0.15	0.055	mg/Kg	☼	08/01/17 12:15	08/03/17 18:48	20
Benzo[a]anthracene	**0.29**		0.15	0.059	mg/Kg	☼	08/01/17 12:15	08/03/17 18:48	20
Benzo[a]pyrene	**0.30**		0.15	0.062	mg/Kg	☼	08/01/17 12:15	08/03/17 18:48	20
Benzo[b]fluoranthene	**0.44**		0.15	0.065	mg/Kg	☼	08/01/17 12:15	08/03/17 18:48	20
Benzo[g,h,i]perylene	**0.33**		0.15	0.065	mg/Kg	☼	08/01/17 12:15	08/03/17 18:48	20
Benzo[k]fluoranthene	**0.16**		0.15	0.052	mg/Kg	☼	08/01/17 12:15	08/03/17 18:48	20
Chrysene	**0.29**		0.15	0.059	mg/Kg	☼	08/01/17 12:15	08/03/17 18:48	20
Dibenz(a,h)anthracene	**0.066**	**J**	0.15	0.062	mg/Kg	☼	08/01/17 12:15	08/03/17 18:48	20
Dibenzofuran	ND		0.74	0.060	mg/Kg	☼	08/01/17 12:15	08/03/17 18:48	20
2,4-Dinitrotoluene	ND		740	99	ug/Kg	☼	08/01/17 12:15	08/03/17 18:48	20
1,4-Dioxane	ND		1.5	0.11	mg/Kg	☼	08/01/17 12:15	08/03/17 18:48	20
Fluoranthene	**0.45**		0.15	0.059	mg/Kg	☼	08/01/17 12:15	08/03/17 18:48	20
Fluorene	ND		0.15	0.053	mg/Kg	☼	08/01/17 12:15	08/03/17 18:48	20
Hexachlorobenzene	ND		0.15	0.060	mg/Kg	☼	08/01/17 12:15	08/03/17 18:48	20
Hexachlorobutadiene	ND		150	47	ug/Kg	☼	08/01/17 12:15	08/03/17 18:48	20
Hexachloroethane	ND		740	54	ug/Kg	☼	08/01/17 12:15	08/03/17 18:48	20
Indeno[1,2,3-cd]pyrene	**0.27**		0.15	0.058	mg/Kg	☼	08/01/17 12:15	08/03/17 18:48	20
2-Methylphenol	ND		0.74	0.066	mg/Kg	☼	08/01/17 12:15	08/03/17 18:48	20
Methylphenol, 3 & 4	ND		0.74	0.066	mg/Kg	☼	08/01/17 12:15	08/03/17 18:48	20
Naphthalene	**0.059**	**J**	0.15	0.054	mg/Kg	☼	08/01/17 12:15	08/03/17 18:48	20
Nitrobenzene	ND		1500	57	ug/Kg	☼	08/01/17 12:15	08/03/17 18:48	20
Pentachlorophenol	ND		3.8	1.4	mg/Kg	☼	08/01/17 12:15	08/03/17 18:48	20
Phenanthrene	**0.22**		0.15	0.063	mg/Kg	☼	08/01/17 12:15	08/03/17 18:48	20
Phenol	ND		0.74	0.10	mg/Kg	☼	08/01/17 12:15	08/03/17 18:48	20
Pyrene	**0.42**		0.15	0.067	mg/Kg	☼	08/01/17 12:15	08/03/17 18:48	20

Client Sample ID: W1-b, S2, C 073117
Date Collected: 07/31/17 10:05
Date Received: 08/01/17 08:40

Lab Sample ID: 180-68756-6
Matrix: Solid
Percent Solids: 88.9

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyridine	ND		740	72	ug/Kg	☼	08/01/17 12:15	08/03/17 18:48	20
2,4,5-Trichlorophenol	ND		740	71	ug/Kg	☼	08/01/17 12:15	08/03/17 18:48	20
2,4,6-Trichlorophenol	ND		740	66	ug/Kg	☼	08/01/17 12:15	08/03/17 18:48	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*84*		*42 - 100*	*08/01/17 12:15*	*08/03/17 18:48*	*20*
2-Fluorophenol (Surr)	*83*		*21 - 107*	*08/01/17 12:15*	*08/03/17 18:48*	*20*
Nitrobenzene-d5 (Surr)	*82*		*35 - 109*	*08/01/17 12:15*	*08/03/17 18:48*	*20*
Phenol-d5 (Surr)	*82*		*29 - 105*	*08/01/17 12:15*	*08/03/17 18:48*	*20*
Terphenyl-d14 (Surr)	*89*		*36 - 113*	*08/01/17 12:15*	*08/03/17 18:48*	*20*
2,4,6-Tribromophenol (Surr)	*100*		*20 - 134*	*08/01/17 12:15*	*08/03/17 18:48*	*20*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.018	0.0098	mg/Kg	☼	08/01/17 12:15	08/02/17 14:19	1
PCB-1221	ND		0.018	0.0096	mg/Kg	☼	08/01/17 12:15	08/02/17 14:19	1
PCB-1232	ND		0.018	0.0073	mg/Kg	☼	08/01/17 12:15	08/02/17 14:19	1
PCB-1242	ND		0.018	0.015	mg/Kg	☼	08/01/17 12:15	08/02/17 14:19	1
PCB-1248	**3.2**		0.018	0.0088	mg/Kg	☼	08/01/17 12:15	08/02/17 14:19	1
PCB-1254	**2.0**		0.018	0.0081	mg/Kg	☼	08/01/17 12:15	08/02/17 14:19	1
PCB-1260	**0.34**		0.018	0.012	mg/Kg	☼	08/01/17 12:15	08/02/17 14:19	1
PCB-1262	ND		0.018	0.013	mg/Kg	☼	08/01/17 12:15	08/02/17 14:19	1
PCB-1268	ND		0.018	0.0056	mg/Kg	☼	08/01/17 12:15	08/02/17 14:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*94*		*23 - 150*	*08/01/17 12:15*	*08/02/17 14:19*	*1*
DCB Decachlorobiphenyl (Surr)	*101*		*23 - 150*	*08/01/17 12:15*	*08/02/17 14:19*	*1*
Tetrachloro-m-xylene (Surr)	*99*		*27 - 138*	*08/01/17 12:15*	*08/02/17 14:19*	*1*
Tetrachloro-m-xylene (Surr)	*81*		*27 - 138*	*08/01/17 12:15*	*08/02/17 14:19*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**8.3**		1.2	0.53	mg/Kg	☼	08/02/17 11:34	08/03/17 11:36	1
Barium	**79**		24	6.4	mg/Kg	☼	08/02/17 11:34	08/03/17 11:36	1
Beryllium	**0.43**	**J**	0.48	0.13	mg/Kg	☼	08/02/17 11:34	08/03/17 11:36	1
Cadmium	ND		0.60	0.13	mg/Kg	☼	08/02/17 11:34	08/03/17 11:36	1
Chromium	**11**		0.60	0.16	mg/Kg	☼	08/02/17 11:34	08/03/17 11:36	1
Copper	**33**		3.0	0.92	mg/Kg	☼	08/02/17 11:34	08/03/17 11:36	1
Lead	**54**		1.2	0.39	mg/Kg	☼	08/02/17 11:34	08/03/17 11:36	1
Manganese	**440**		1.8	0.48	mg/Kg	☼	08/02/17 11:34	08/03/17 11:36	1
Nickel	**22**		4.8	1.1	mg/Kg	☼	08/02/17 11:34	08/03/17 11:36	1
Selenium	ND		1.2	0.47	mg/Kg	☼	08/02/17 11:34	08/03/17 11:36	1
Silver	ND		0.60	0.20	mg/Kg	☼	08/02/17 11:34	08/03/17 11:36	1
Zinc	**78**		2.4	1.2	mg/Kg	☼	08/02/17 11:34	08/03/17 11:36	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.058**		0.038	0.0084	mg/Kg	☼	08/01/17 13:50	08/02/17 07:38	1

Client Sample ID: W1-b, S2, C 073117 — Lab Sample ID: 180-68756-6

Date Collected: 07/31/17 10:05 — **Matrix: Solid**
Date Received: 08/01/17 08:40 — **Percent Solids: 88.9**

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**11.1**		0.1	0.1	%			08/01/17 13:27	1
Percent Solids	**88.9**		0.1	0.1	%			08/01/17 13:27	1
Cyanide, Total	ND		0.55	0.17	mg/Kg	☼	08/02/17 13:35	08/03/17 11:36	1

Client Sample ID: W1-b, S3, A 073117 — Lab Sample ID: 180-68756-7

Date Collected: 07/31/17 10:40 — **Matrix: Solid**
Date Received: 08/01/17 08:40 — **Percent Solids: 89.1**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.020	0.0031	mg/Kg	☼	08/02/17 07:00	08/02/17 13:17	1
Benzene	ND		0.0049	0.0019	mg/Kg	☼	08/02/17 07:00	08/02/17 13:17	1
2-Butanone (MEK)	ND		0.0049	0.0029	mg/Kg	☼	08/02/17 07:00	08/02/17 13:17	1
Carbon tetrachloride	ND		0.0049	0.0033	mg/Kg	☼	08/02/17 07:00	08/02/17 13:17	1
Chlorobenzene	ND		0.0049	0.0016	mg/Kg	☼	08/02/17 07:00	08/02/17 13:17	1
Chloroform	ND		0.0049	0.0021	mg/Kg	☼	08/02/17 07:00	08/02/17 13:17	1
cis-1,2-Dichloroethene	ND		0.0049	0.0016	mg/Kg	☼	08/02/17 07:00	08/02/17 13:17	1
1,2-Dichlorobenzene	ND		0.0049	0.0040	mg/Kg	☼	08/02/17 07:00	08/02/17 13:17	1
1,3-Dichlorobenzene	ND		0.0049	0.0016	mg/Kg	☼	08/02/17 07:00	08/02/17 13:17	1
1,4-Dichlorobenzene	ND		0.0049	0.0010	mg/Kg	☼	08/02/17 07:00	08/02/17 13:17	1
1,1-Dichloroethane	ND		0.0049	0.0018	mg/Kg	☼	08/02/17 07:00	08/02/17 13:17	1
1,2-Dichloroethane	ND		0.0049	0.0014	mg/Kg	☼	08/02/17 07:00	08/02/17 13:17	1
1,1-Dichloroethene	ND		0.0049	0.0028	mg/Kg	☼	08/02/17 07:00	08/02/17 13:17	1
Ethylbenzene	ND		0.0049	0.0021	mg/Kg	☼	08/02/17 07:00	08/02/17 13:17	1
Methylene Chloride	ND		0.0049	0.0023	mg/Kg	☼	08/02/17 07:00	08/02/17 13:17	1
Methyl tert-butyl ether	ND		0.0049	0.0036	mg/Kg	☼	08/02/17 07:00	08/02/17 13:17	1
n-Butylbenzene	ND		0.0049	0.0037	mg/Kg	☼	08/02/17 07:00	08/02/17 13:17	1
N-Propylbenzene	ND		0.0049	0.0021	mg/Kg	☼	08/02/17 07:00	08/02/17 13:17	1
sec-Butylbenzene	ND		0.0049	0.0024	mg/Kg	☼	08/02/17 07:00	08/02/17 13:17	1
tert-Butylbenzene	ND		0.0049	0.0018	mg/Kg	☼	08/02/17 07:00	08/02/17 13:17	1
Tetrachloroethene	ND		0.0049	0.0020	mg/Kg	☼	08/02/17 07:00	08/02/17 13:17	1
Toluene	ND		0.0049	0.0017	mg/Kg	☼	08/02/17 07:00	08/02/17 13:17	1
trans-1,2-Dichloroethene	ND		0.0049	0.0025	mg/Kg	☼	08/02/17 07:00	08/02/17 13:17	1
1,1,1-Trichloroethane	ND		0.0049	0.0025	mg/Kg	☼	08/02/17 07:00	08/02/17 13:17	1
Trichloroethene	ND		0.0049	0.0015	mg/Kg	☼	08/02/17 07:00	08/02/17 13:17	1
1,2,4-Trimethylbenzene	ND		0.0049	0.0013	mg/Kg	☼	08/02/17 07:00	08/02/17 13:17	1
1,3,5-Trimethylbenzene	ND		0.0049	0.0017	mg/Kg	☼	08/02/17 07:00	08/02/17 13:17	1
Vinyl chloride	ND		0.0049	0.0036	mg/Kg	☼	08/02/17 07:00	08/02/17 13:17	1
Xylenes, Total	ND		0.0099	0.0042	mg/Kg	☼	08/02/17 07:00	08/02/17 13:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*63 - 120*	*08/02/17 07:00*	*08/02/17 13:17*	*1*
Dibromofluoromethane (Surr)	*98*		*68 - 121*	*08/02/17 07:00*	*08/02/17 13:17*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*52 - 124*	*08/02/17 07:00*	*08/02/17 13:17*	*1*
Toluene-d8 (Surr)	*108*		*72 - 127*	*08/02/17 07:00*	*08/02/17 13:17*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**10.9**		0.1	0.1	%			08/01/17 13:27	1
Percent Solids	**89.1**		0.1	0.1	%			08/01/17 13:27	1

Client Sample ID: W1-b, S3, B 073117 — Lab Sample ID: 180-68756-8

Date Collected: 07/31/17 10:50 — **Matrix: Solid**
Date Received: 08/01/17 08:40 — **Percent Solids: 90.3**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.021	0.0034	mg/Kg	☼	08/02/17 07:00	08/02/17 13:40	1
Benzene	ND		0.0053	0.0021	mg/Kg	☼	08/02/17 07:00	08/02/17 13:40	1
2-Butanone (MEK)	ND		0.0053	0.0031	mg/Kg	☼	08/02/17 07:00	08/02/17 13:40	1
Carbon tetrachloride	ND		0.0053	0.0035	mg/Kg	☼	08/02/17 07:00	08/02/17 13:40	1
Chlorobenzene	ND		0.0053	0.0017	mg/Kg	☼	08/02/17 07:00	08/02/17 13:40	1
Chloroform	ND		0.0053	0.0023	mg/Kg	☼	08/02/17 07:00	08/02/17 13:40	1
cis-1,2-Dichloroethene	ND		0.0053	0.0017	mg/Kg	☼	08/02/17 07:00	08/02/17 13:40	1
1,2-Dichlorobenzene	ND		0.0053	0.0043	mg/Kg	☼	08/02/17 07:00	08/02/17 13:40	1
1,3-Dichlorobenzene	ND		0.0053	0.0017	mg/Kg	☼	08/02/17 07:00	08/02/17 13:40	1
1,4-Dichlorobenzene	ND		0.0053	0.0011	mg/Kg	☼	08/02/17 07:00	08/02/17 13:40	1
1,1-Dichloroethane	ND		0.0053	0.0019	mg/Kg	☼	08/02/17 07:00	08/02/17 13:40	1
1,2-Dichloroethane	ND		0.0053	0.0016	mg/Kg	☼	08/02/17 07:00	08/02/17 13:40	1
1,1-Dichloroethene	ND		0.0053	0.0030	mg/Kg	☼	08/02/17 07:00	08/02/17 13:40	1
Ethylbenzene	ND		0.0053	0.0023	mg/Kg	☼	08/02/17 07:00	08/02/17 13:40	1
Methylene Chloride	ND		0.0053	0.0025	mg/Kg	☼	08/02/17 07:00	08/02/17 13:40	1
Methyl tert-butyl ether	ND		0.0053	0.0039	mg/Kg	☼	08/02/17 07:00	08/02/17 13:40	1
n-Butylbenzene	ND		0.0053	0.0041	mg/Kg	☼	08/02/17 07:00	08/02/17 13:40	1
N-Propylbenzene	ND		0.0053	0.0023	mg/Kg	☼	08/02/17 07:00	08/02/17 13:40	1
sec-Butylbenzene	ND		0.0053	0.0026	mg/Kg	☼	08/02/17 07:00	08/02/17 13:40	1
tert-Butylbenzene	ND		0.0053	0.0020	mg/Kg	☼	08/02/17 07:00	08/02/17 13:40	1
Tetrachloroethene	ND		0.0053	0.0021	mg/Kg	☼	08/02/17 07:00	08/02/17 13:40	1
Toluene	ND		0.0053	0.0018	mg/Kg	☼	08/02/17 07:00	08/02/17 13:40	1
trans-1,2-Dichloroethene	ND		0.0053	0.0027	mg/Kg	☼	08/02/17 07:00	08/02/17 13:40	1
1,1,1-Trichloroethane	ND		0.0053	0.0027	mg/Kg	☼	08/02/17 07:00	08/02/17 13:40	1
Trichloroethene	ND		0.0053	0.0016	mg/Kg	☼	08/02/17 07:00	08/02/17 13:40	1
1,2,4-Trimethylbenzene	ND		0.0053	0.0014	mg/Kg	☼	08/02/17 07:00	08/02/17 13:40	1
1,3,5-Trimethylbenzene	ND		0.0053	0.0018	mg/Kg	☼	08/02/17 07:00	08/02/17 13:40	1
Vinyl chloride	ND		0.0053	0.0039	mg/Kg	☼	08/02/17 07:00	08/02/17 13:40	1
Xylenes, Total	ND		0.011	0.0046	mg/Kg	☼	08/02/17 07:00	08/02/17 13:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*63 - 120*	*08/02/17 07:00*	*08/02/17 13:40*	*1*
Dibromofluoromethane (Surr)	*98*		*68 - 121*	*08/02/17 07:00*	*08/02/17 13:40*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*52 - 124*	*08/02/17 07:00*	*08/02/17 13:40*	*1*
Toluene-d8 (Surr)	*110*		*72 - 127*	*08/02/17 07:00*	*08/02/17 13:40*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.7**		0.1	0.1	%			08/01/17 13:27	1
Percent Solids	**90.3**		0.1	0.1	%			08/01/17 13:27	1

Client Sample ID: W1-b, S3, C 073117 — Lab Sample ID: 180-68756-9

Date Collected: 07/31/17 10:55 — **Matrix: Solid**
Date Received: 08/01/17 08:40 — **Percent Solids: 89.6**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.011**	**J**	0.015	0.0050	mg/Kg	☼	08/01/17 12:15	08/03/17 19:15	2
Acenaphthylene	**0.13**		0.015	0.0050	mg/Kg	☼	08/01/17 12:15	08/03/17 19:15	2
Anthracene	**0.084**		0.015	0.0055	mg/Kg	☼	08/01/17 12:15	08/03/17 19:15	2

Client Sample ID: W1-b, S3, C 073117
Date Collected: 07/31/17 10:55
Date Received: 08/01/17 08:40

Lab Sample ID: 180-68756-9
Matrix: Solid
Percent Solids: 89.6

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	**0.29**		0.015	0.0059	mg/Kg	☼	08/01/17 12:15	08/03/17 19:15	2
Benzo[a]pyrene	**0.29**		0.015	0.0061	mg/Kg	☼	08/01/17 12:15	08/03/17 19:15	2
Benzo[b]fluoranthene	**0.44**		0.015	0.0064	mg/Kg	☼	08/01/17 12:15	08/03/17 19:15	2
Benzo[g,h,i]perylene	**0.34**		0.015	0.0064	mg/Kg	☼	08/01/17 12:15	08/03/17 19:15	2
Benzo[k]fluoranthene	**0.15**		0.015	0.0051	mg/Kg	☼	08/01/17 12:15	08/03/17 19:15	2
Chrysene	**0.33**		0.015	0.0058	mg/Kg	☼	08/01/17 12:15	08/03/17 19:15	2
Dibenz(a,h)anthracene	**0.089**		0.015	0.0061	mg/Kg	☼	08/01/17 12:15	08/03/17 19:15	2
Dibenzofuran	**0.017**	**J**	0.073	0.0059	mg/Kg	☼	08/01/17 12:15	08/03/17 19:15	2
2,4-Dinitrotoluene	ND		73	9.8	ug/Kg	☼	08/01/17 12:15	08/03/17 19:15	2
1,4-Dioxane	ND		0.15	0.011	mg/Kg	☼	08/01/17 12:15	08/03/17 19:15	2
Fluoranthene	**0.52**		0.015	0.0058	mg/Kg	☼	08/01/17 12:15	08/03/17 19:15	2
Fluorene	**0.018**		0.015	0.0053	mg/Kg	☼	08/01/17 12:15	08/03/17 19:15	2
Hexachlorobenzene	ND		0.015	0.0059	mg/Kg	☼	08/01/17 12:15	08/03/17 19:15	2
Hexachlorobutadiene	ND		15	4.7	ug/Kg	☼	08/01/17 12:15	08/03/17 19:15	2
Hexachloroethane	ND		73	5.3	ug/Kg	☼	08/01/17 12:15	08/03/17 19:15	2
Indeno[1,2,3-cd]pyrene	**0.27**		0.015	0.0057	mg/Kg	☼	08/01/17 12:15	08/03/17 19:15	2
2-Methylphenol	ND		0.073	0.0065	mg/Kg	☼	08/01/17 12:15	08/03/17 19:15	2
Methylphenol, 3 & 4	ND		0.073	0.0065	mg/Kg	☼	08/01/17 12:15	08/03/17 19:15	2
Naphthalene	**0.066**		0.015	0.0053	mg/Kg	☼	08/01/17 12:15	08/03/17 19:15	2
Nitrobenzene	ND		150	5.6	ug/Kg	☼	08/01/17 12:15	08/03/17 19:15	2
Pentachlorophenol	ND		0.38	0.14	mg/Kg	☼	08/01/17 12:15	08/03/17 19:15	2
Phenanthrene	**0.18**		0.015	0.0062	mg/Kg	☼	08/01/17 12:15	08/03/17 19:15	2
Phenol	ND		0.073	0.010	mg/Kg	☼	08/01/17 12:15	08/03/17 19:15	2
Pyrene	**0.46**		0.015	0.0066	mg/Kg	☼	08/01/17 12:15	08/03/17 19:15	2
Pyridine	ND		73	7.1	ug/Kg	☼	08/01/17 12:15	08/03/17 19:15	2
2,4,5-Trichlorophenol	ND		73	7.0	ug/Kg	☼	08/01/17 12:15	08/03/17 19:15	2
2,4,6-Trichlorophenol	ND		73	6.5	ug/Kg	☼	08/01/17 12:15	08/03/17 19:15	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*83*		*42 - 100*	*08/01/17 12:15*	*08/03/17 19:15*	*2*
2-Fluorophenol (Surr)	*91*		*21 - 107*	*08/01/17 12:15*	*08/03/17 19:15*	*2*
Nitrobenzene-d5 (Surr)	*87*		*35 - 109*	*08/01/17 12:15*	*08/03/17 19:15*	*2*
Phenol-d5 (Surr)	*96*		*29 - 105*	*08/01/17 12:15*	*08/03/17 19:15*	*2*
Terphenyl-d14 (Surr)	*84*		*36 - 113*	*08/01/17 12:15*	*08/03/17 19:15*	*2*
2,4,6-Tribromophenol (Surr)	*87*		*20 - 134*	*08/01/17 12:15*	*08/03/17 19:15*	*2*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.018	0.0098	mg/Kg	☼	08/01/17 12:15	08/02/17 14:39	1
PCB-1221	ND		0.018	0.0096	mg/Kg	☼	08/01/17 12:15	08/02/17 14:39	1
PCB-1232	ND		0.018	0.0073	mg/Kg	☼	08/01/17 12:15	08/02/17 14:39	1
PCB-1242	ND		0.018	0.015	mg/Kg	☼	08/01/17 12:15	08/02/17 14:39	1
PCB-1248	**0.83**		0.018	0.0088	mg/Kg	☼	08/01/17 12:15	08/02/17 14:39	1
PCB-1254	**0.60**		0.018	0.0081	mg/Kg	☼	08/01/17 12:15	08/02/17 14:39	1
PCB-1260	**0.14**		0.018	0.012	mg/Kg	☼	08/01/17 12:15	08/02/17 14:39	1
PCB-1262	ND		0.018	0.013	mg/Kg	☼	08/01/17 12:15	08/02/17 14:39	1
PCB-1268	ND		0.018	0.0056	mg/Kg	☼	08/01/17 12:15	08/02/17 14:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*93*		*23 - 150*	*08/01/17 12:15*	*08/02/17 14:39*	*1*

Client Sample ID: W1-b, S3, C 073117 — Lab Sample ID: 180-68756-9

Date Collected: 07/31/17 10:55 — **Matrix: Solid**
Date Received: 08/01/17 08:40 — **Percent Solids: 89.6**

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*97*		*23 - 150*	*08/01/17 12:15*	*08/02/17 14:39*	*1*
Tetrachloro-m-xylene (Surr)	*100*		*27 - 138*	*08/01/17 12:15*	*08/02/17 14:39*	*1*
Tetrachloro-m-xylene (Surr)	*84*		*27 - 138*	*08/01/17 12:15*	*08/02/17 14:39*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**8.1**		1.2	0.52	mg/Kg	☼	08/02/17 11:34	08/03/17 11:41	1
Barium	**84**		23	6.3	mg/Kg	☼	08/02/17 11:34	08/03/17 11:41	1
Beryllium	**0.45**	**J**	0.47	0.12	mg/Kg	☼	08/02/17 11:34	08/03/17 11:41	1
Cadmium	ND		0.59	0.13	mg/Kg	☼	08/02/17 11:34	08/03/17 11:41	1
Chromium	**12**		0.59	0.15	mg/Kg	☼	08/02/17 11:34	08/03/17 11:41	1
Copper	**27**		2.9	0.90	mg/Kg	☼	08/02/17 11:34	08/03/17 11:41	1
Lead	**39**		1.2	0.39	mg/Kg	☼	08/02/17 11:34	08/03/17 11:41	1
Manganese	**460**		1.8	0.48	mg/Kg	☼	08/02/17 11:34	08/03/17 11:41	1
Nickel	**21**		4.7	1.1	mg/Kg	☼	08/02/17 11:34	08/03/17 11:41	1
Selenium	ND		1.2	0.47	mg/Kg	☼	08/02/17 11:34	08/03/17 11:41	1
Silver	ND		0.59	0.19	mg/Kg	☼	08/02/17 11:34	08/03/17 11:41	1
Zinc	**71**		2.3	1.2	mg/Kg	☼	08/02/17 11:34	08/03/17 11:41	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.081**		0.037	0.0084	mg/Kg	☼	08/01/17 13:50	08/02/17 07:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**10.4**		0.1	0.1	%			08/01/17 13:27	1
Percent Solids	**89.6**		0.1	0.1	%			08/01/17 13:27	1
Cyanide, Total	ND		0.55	0.17	mg/Kg	☼	08/02/17 13:35	08/03/17 11:38	1

Client Sample ID: W1-b, S4, A 073117 — Lab Sample ID: 180-68756-10

Date Collected: 07/31/17 11:00 — **Matrix: Solid**
Date Received: 08/01/17 08:40 — **Percent Solids: 88.1**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.019	0.0030	mg/Kg	☼	08/02/17 07:00	08/02/17 14:02	1
Benzene	ND		0.0047	0.0018	mg/Kg	☼	08/02/17 07:00	08/02/17 14:02	1
2-Butanone (MEK)	ND		0.0047	0.0027	mg/Kg	☼	08/02/17 07:00	08/02/17 14:02	1
Carbon tetrachloride	ND		0.0047	0.0031	mg/Kg	☼	08/02/17 07:00	08/02/17 14:02	1
Chlorobenzene	ND		0.0047	0.0015	mg/Kg	☼	08/02/17 07:00	08/02/17 14:02	1
Chloroform	ND		0.0047	0.0020	mg/Kg	☼	08/02/17 07:00	08/02/17 14:02	1
cis-1,2-Dichloroethene	ND		0.0047	0.0015	mg/Kg	☼	08/02/17 07:00	08/02/17 14:02	1
1,2-Dichlorobenzene	ND		0.0047	0.0038	mg/Kg	☼	08/02/17 07:00	08/02/17 14:02	1
1,3-Dichlorobenzene	ND		0.0047	0.0015	mg/Kg	☼	08/02/17 07:00	08/02/17 14:02	1
1,4-Dichlorobenzene	ND		0.0047	0.00096	mg/Kg	☼	08/02/17 07:00	08/02/17 14:02	1
1,1-Dichloroethane	ND		0.0047	0.0017	mg/Kg	☼	08/02/17 07:00	08/02/17 14:02	1
1,2-Dichloroethane	ND		0.0047	0.0014	mg/Kg	☼	08/02/17 07:00	08/02/17 14:02	1
1,1-Dichloroethene	ND		0.0047	0.0027	mg/Kg	☼	08/02/17 07:00	08/02/17 14:02	1
Ethylbenzene	ND		0.0047	0.0020	mg/Kg	☼	08/02/17 07:00	08/02/17 14:02	1
Methylene Chloride	ND		0.0047	0.0022	mg/Kg	☼	08/02/17 07:00	08/02/17 14:02	1

Client Sample ID: W1-b, S4, A 073117

Lab Sample ID: 180-68756-10
Date Collected: 07/31/17 11:00
Matrix: Solid
Date Received: 08/01/17 08:40
Percent Solids: 88.1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.0047	0.0035	mg/Kg	☼	08/02/17 07:00	08/02/17 14:02	1
n-Butylbenzene	ND		0.0047	0.0036	mg/Kg	☼	08/02/17 07:00	08/02/17 14:02	1
N-Propylbenzene	ND		0.0047	0.0020	mg/Kg	☼	08/02/17 07:00	08/02/17 14:02	1
sec-Butylbenzene	ND		0.0047	0.0023	mg/Kg	☼	08/02/17 07:00	08/02/17 14:02	1
tert-Butylbenzene	ND		0.0047	0.0017	mg/Kg	☼	08/02/17 07:00	08/02/17 14:02	1
Tetrachloroethene	ND		0.0047	0.0019	mg/Kg	☼	08/02/17 07:00	08/02/17 14:02	1
Toluene	ND		0.0047	0.0016	mg/Kg	☼	08/02/17 07:00	08/02/17 14:02	1
trans-1,2-Dichloroethene	ND		0.0047	0.0024	mg/Kg	☼	08/02/17 07:00	08/02/17 14:02	1
1,1,1-Trichloroethane	ND		0.0047	0.0024	mg/Kg	☼	08/02/17 07:00	08/02/17 14:02	1
Trichloroethene	ND		0.0047	0.0014	mg/Kg	☼	08/02/17 07:00	08/02/17 14:02	1
1,2,4-Trimethylbenzene	ND		0.0047	0.0013	mg/Kg	☼	08/02/17 07:00	08/02/17 14:02	1
1,3,5-Trimethylbenzene	ND		0.0047	0.0016	mg/Kg	☼	08/02/17 07:00	08/02/17 14:02	1
Vinyl chloride	ND		0.0047	0.0034	mg/Kg	☼	08/02/17 07:00	08/02/17 14:02	1
Xylenes, Total	ND		0.0094	0.0040	mg/Kg	☼	08/02/17 07:00	08/02/17 14:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*63 - 120*	*08/02/17 07:00*	*08/02/17 14:02*	*1*
Dibromofluoromethane (Surr)	*94*		*68 - 121*	*08/02/17 07:00*	*08/02/17 14:02*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*52 - 124*	*08/02/17 07:00*	*08/02/17 14:02*	*1*
Toluene-d8 (Surr)	*104*		*72 - 127*	*08/02/17 07:00*	*08/02/17 14:02*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**11.9**		0.1	0.1	%			08/01/17 13:27	1
Percent Solids	**88.1**		0.1	0.1	%			08/01/17 13:27	1

Client Sample ID: W1-b, S4, B 073117

Lab Sample ID: 180-68756-11
Date Collected: 07/31/17 11:10
Matrix: Solid
Date Received: 08/01/17 08:40
Percent Solids: 90.8

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.030	0.0047	mg/Kg	☼	08/02/17 07:00	08/02/17 14:24	1
Benzene	ND		0.0075	0.0030	mg/Kg	☼	08/02/17 07:00	08/02/17 14:24	1
2-Butanone (MEK)	ND		0.0075	0.0044	mg/Kg	☼	08/02/17 07:00	08/02/17 14:24	1
Carbon tetrachloride	ND		0.0075	0.0050	mg/Kg	☼	08/02/17 07:00	08/02/17 14:24	1
Chlorobenzene	ND		0.0075	0.0024	mg/Kg	☼	08/02/17 07:00	08/02/17 14:24	1
Chloroform	ND		0.0075	0.0032	mg/Kg	☼	08/02/17 07:00	08/02/17 14:24	1
cis-1,2-Dichloroethene	ND		0.0075	0.0024	mg/Kg	☼	08/02/17 07:00	08/02/17 14:24	1
1,2-Dichlorobenzene	ND		0.0075	0.0061	mg/Kg	☼	08/02/17 07:00	08/02/17 14:24	1
1,3-Dichlorobenzene	ND		0.0075	0.0024	mg/Kg	☼	08/02/17 07:00	08/02/17 14:24	1
1,4-Dichlorobenzene	ND		0.0075	0.0015	mg/Kg	☼	08/02/17 07:00	08/02/17 14:24	1
1,1-Dichloroethane	ND		0.0075	0.0027	mg/Kg	☼	08/02/17 07:00	08/02/17 14:24	1
1,2-Dichloroethane	ND		0.0075	0.0022	mg/Kg	☼	08/02/17 07:00	08/02/17 14:24	1
1,1-Dichloroethene	ND		0.0075	0.0043	mg/Kg	☼	08/02/17 07:00	08/02/17 14:24	1
Ethylbenzene	ND		0.0075	0.0032	mg/Kg	☼	08/02/17 07:00	08/02/17 14:24	1
Methylene Chloride	ND		0.0075	0.0036	mg/Kg	☼	08/02/17 07:00	08/02/17 14:24	1
Methyl tert-butyl ether	ND		0.0075	0.0055	mg/Kg	☼	08/02/17 07:00	08/02/17 14:24	1
n-Butylbenzene	ND		0.0075	0.0057	mg/Kg	☼	08/02/17 07:00	08/02/17 14:24	1
N-Propylbenzene	ND		0.0075	0.0032	mg/Kg	☼	08/02/17 07:00	08/02/17 14:24	1

Client Sample ID: W1-b, S4, B 073117 — Lab Sample ID: 180-68756-11

Date Collected: 07/31/17 11:10 — **Matrix: Solid**
Date Received: 08/01/17 08:40 — **Percent Solids: 90.8**

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		0.0075	0.0037	mg/Kg	☼	08/02/17 07:00	08/02/17 14:24	1
tert-Butylbenzene	ND		0.0075	0.0028	mg/Kg	☼	08/02/17 07:00	08/02/17 14:24	1
Tetrachloroethene	ND		0.0075	0.0030	mg/Kg	☼	08/02/17 07:00	08/02/17 14:24	1
Toluene	ND		0.0075	0.0025	mg/Kg	☼	08/02/17 07:00	08/02/17 14:24	1
trans-1,2-Dichloroethene	ND		0.0075	0.0038	mg/Kg	☼	08/02/17 07:00	08/02/17 14:24	1
1,1,1-Trichloroethane	ND		0.0075	0.0038	mg/Kg	☼	08/02/17 07:00	08/02/17 14:24	1
Trichloroethene	ND		0.0075	0.0023	mg/Kg	☼	08/02/17 07:00	08/02/17 14:24	1
1,2,4-Trimethylbenzene	ND		0.0075	0.0020	mg/Kg	☼	08/02/17 07:00	08/02/17 14:24	1
1,3,5-Trimethylbenzene	ND		0.0075	0.0026	mg/Kg	☼	08/02/17 07:00	08/02/17 14:24	1
Vinyl chloride	ND		0.0075	0.0055	mg/Kg	☼	08/02/17 07:00	08/02/17 14:24	1
Xylenes, Total	ND		0.015	0.0065	mg/Kg	☼	08/02/17 07:00	08/02/17 14:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*63 - 120*	*08/02/17 07:00*	*08/02/17 14:24*	*1*
Dibromofluoromethane (Surr)	*97*		*68 - 121*	*08/02/17 07:00*	*08/02/17 14:24*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*52 - 124*	*08/02/17 07:00*	*08/02/17 14:24*	*1*
Toluene-d8 (Surr)	*109*		*72 - 127*	*08/02/17 07:00*	*08/02/17 14:24*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.2**		0.1	0.1	%			08/01/17 13:27	1
Percent Solids	**90.8**		0.1	0.1	%			08/01/17 13:27	1

Client Sample ID: W1-b, S4, C 073117 — Lab Sample ID: 180-68756-12

Date Collected: 07/31/17 11:15 — **Matrix: Solid**
Date Received: 08/01/17 08:40 — **Percent Solids: 89.8**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.030**	**J**	0.037	0.012	mg/Kg	☼	08/01/17 12:15	08/03/17 19:43	5
Acenaphthylene	**0.49**		0.037	0.013	mg/Kg	☼	08/01/17 12:15	08/03/17 19:43	5
Anthracene	**0.28**		0.037	0.014	mg/Kg	☼	08/01/17 12:15	08/03/17 19:43	5
Benzo[a]anthracene	**1.2**		0.037	0.015	mg/Kg	☼	08/01/17 12:15	08/03/17 19:43	5
Benzo[a]pyrene	**1.1**		0.037	0.015	mg/Kg	☼	08/01/17 12:15	08/03/17 19:43	5
Benzo[b]fluoranthene	**1.3**		0.037	0.016	mg/Kg	☼	08/01/17 12:15	08/03/17 19:43	5
Benzo[g,h,i]perylene	**1.0**		0.037	0.016	mg/Kg	☼	08/01/17 12:15	08/03/17 19:43	5
Benzo[k]fluoranthene	**0.63**		0.037	0.013	mg/Kg	☼	08/01/17 12:15	08/03/17 19:43	5
Chrysene	**1.3**		0.037	0.014	mg/Kg	☼	08/01/17 12:15	08/03/17 19:43	5
Dibenz(a,h)anthracene	**0.29**		0.037	0.015	mg/Kg	☼	08/01/17 12:15	08/03/17 19:43	5
Dibenzofuran	**0.026**	**J**	0.18	0.015	mg/Kg	☼	08/01/17 12:15	08/03/17 19:43	5
2,4-Dinitrotoluene	ND		180	24	ug/Kg	☼	08/01/17 12:15	08/03/17 19:43	5
1,4-Dioxane	ND		0.37	0.028	mg/Kg	☼	08/01/17 12:15	08/03/17 19:43	5
Fluoranthene	**1.9**		0.037	0.015	mg/Kg	☼	08/01/17 12:15	08/03/17 19:43	5
Fluorene	**0.055**		0.037	0.013	mg/Kg	☼	08/01/17 12:15	08/03/17 19:43	5
Hexachlorobenzene	ND		0.037	0.015	mg/Kg	☼	08/01/17 12:15	08/03/17 19:43	5
Hexachlorobutadiene	ND		37	12	ug/Kg	☼	08/01/17 12:15	08/03/17 19:43	5
Hexachloroethane	ND		180	13	ug/Kg	☼	08/01/17 12:15	08/03/17 19:43	5
Indeno[1,2,3-cd]pyrene	**0.87**		0.037	0.014	mg/Kg	☼	08/01/17 12:15	08/03/17 19:43	5
2-Methylphenol	ND		0.18	0.016	mg/Kg	☼	08/01/17 12:15	08/03/17 19:43	5
Methylphenol, 3 & 4	ND		0.18	0.016	mg/Kg	☼	08/01/17 12:15	08/03/17 19:43	5

Client Sample ID: W1-b, S4, C 073117 **Lab Sample ID: 180-68756-12**
Date Collected: 07/31/17 11:15 **Matrix: Solid**
Date Received: 08/01/17 08:40 **Percent Solids: 89.8**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	**0.10**		0.037	0.013	mg/Kg	☼	08/01/17 12:15	08/03/17 19:43	5
Nitrobenzene	ND		370	14	ug/Kg	☼	08/01/17 12:15	08/03/17 19:43	5
Pentachlorophenol	ND		0.94	0.35	mg/Kg	☼	08/01/17 12:15	08/03/17 19:43	5
Phenanthrene	**0.48**		0.037	0.015	mg/Kg	☼	08/01/17 12:15	08/03/17 19:43	5
Phenol	ND		0.18	0.025	mg/Kg	☼	08/01/17 12:15	08/03/17 19:43	5
Pyrene	**1.8**		0.037	0.016	mg/Kg	☼	08/01/17 12:15	08/03/17 19:43	5
Pyridine	ND		180	18	ug/Kg	☼	08/01/17 12:15	08/03/17 19:43	5
2,4,5-Trichlorophenol	ND		180	18	ug/Kg	☼	08/01/17 12:15	08/03/17 19:43	5
2,4,6-Trichlorophenol	ND		180	16	ug/Kg	☼	08/01/17 12:15	08/03/17 19:43	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*96*		*42 - 100*	*08/01/17 12:15*	*08/03/17 19:43*	*5*
2-Fluorophenol (Surr)	*94*		*21 - 107*	*08/01/17 12:15*	*08/03/17 19:43*	*5*
Nitrobenzene-d5 (Surr)	*96*		*35 - 109*	*08/01/17 12:15*	*08/03/17 19:43*	*5*
Phenol-d5 (Surr)	*100*		*29 - 105*	*08/01/17 12:15*	*08/03/17 19:43*	*5*
Terphenyl-d14 (Surr)	*97*		*36 - 113*	*08/01/17 12:15*	*08/03/17 19:43*	*5*
2,4,6-Tribromophenol (Surr)	*105*		*20 - 134*	*08/01/17 12:15*	*08/03/17 19:43*	*5*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.019	0.0098	mg/Kg	☼	08/01/17 12:15	08/02/17 14:59	1
PCB-1221	ND		0.019	0.0096	mg/Kg	☼	08/01/17 12:15	08/02/17 14:59	1
PCB-1232	ND		0.019	0.0073	mg/Kg	☼	08/01/17 12:15	08/02/17 14:59	1
PCB-1242	ND		0.019	0.015	mg/Kg	☼	08/01/17 12:15	08/02/17 14:59	1
PCB-1248	**1.0**		0.019	0.0089	mg/Kg	☼	08/01/17 12:15	08/02/17 14:59	1
PCB-1254	**0.65**		0.019	0.0081	mg/Kg	☼	08/01/17 12:15	08/02/17 14:59	1
PCB-1260	**0.15**		0.019	0.012	mg/Kg	☼	08/01/17 12:15	08/02/17 14:59	1
PCB-1262	ND		0.019	0.013	mg/Kg	☼	08/01/17 12:15	08/02/17 14:59	1
PCB-1268	ND		0.019	0.0057	mg/Kg	☼	08/01/17 12:15	08/02/17 14:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*92*		*23 - 150*	*08/01/17 12:15*	*08/02/17 14:59*	*1*
DCB Decachlorobiphenyl (Surr)	*94*		*23 - 150*	*08/01/17 12:15*	*08/02/17 14:59*	*1*
Tetrachloro-m-xylene (Surr)	*101*		*27 - 138*	*08/01/17 12:15*	*08/02/17 14:59*	*1*
Tetrachloro-m-xylene (Surr)	*86*		*27 - 138*	*08/01/17 12:15*	*08/02/17 14:59*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**7.9**		1.1	0.50	mg/Kg	☼	08/02/17 11:34	08/03/17 11:46	1
Barium	**84**		22	6.0	mg/Kg	☼	08/02/17 11:34	08/03/17 11:46	1
Beryllium	**0.40**	**J**	0.45	0.12	mg/Kg	☼	08/02/17 11:34	08/03/17 11:46	1
Cadmium	ND		0.56	0.13	mg/Kg	☼	08/02/17 11:34	08/03/17 11:46	1
Chromium	**11**		0.56	0.15	mg/Kg	☼	08/02/17 11:34	08/03/17 11:46	1
Copper	**28**		2.8	0.86	mg/Kg	☼	08/02/17 11:34	08/03/17 11:46	1
Lead	**39**		1.1	0.37	mg/Kg	☼	08/02/17 11:34	08/03/17 11:46	1
Manganese	**450**		1.7	0.46	mg/Kg	☼	08/02/17 11:34	08/03/17 11:46	1
Nickel	**21**		4.5	1.0	mg/Kg	☼	08/02/17 11:34	08/03/17 11:46	1
Selenium	ND		1.1	0.45	mg/Kg	☼	08/02/17 11:34	08/03/17 11:46	1
Silver	ND		0.56	0.19	mg/Kg	☼	08/02/17 11:34	08/03/17 11:46	1
Zinc	**91**		2.2	1.1	mg/Kg	☼	08/02/17 11:34	08/03/17 11:46	1

Client Sample ID: W1-b, S4, C 073117

Lab Sample ID: 180-68756-12
Date Collected: 07/31/17 11:15
Matrix: Solid
Date Received: 08/01/17 08:40
Percent Solids: 89.8

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.067**		0.033	0.0074	mg/Kg	☼	08/01/17 13:50	08/02/17 07:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**10.2**		0.1	0.1	%			08/01/17 13:27	1
Percent Solids	**89.8**		0.1	0.1	%			08/01/17 13:27	1
Cyanide, Total	ND		0.54	0.16	mg/Kg	☼	08/02/17 13:35	08/03/17 11:39	1

Client Sample ID: TRIP BLANK #1

Lab Sample ID: 180-68756-17
Date Collected: 07/31/17 00:00
Matrix: Water
Date Received: 08/01/17 08:40

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**3.3**	**J**	5.0	3.1	ug/L			08/02/17 04:34	1
Benzene	ND		1.0	0.18	ug/L			08/02/17 04:34	1
2-Butanone (MEK)	ND		5.0	2.6	ug/L			08/02/17 04:34	1
Carbon tetrachloride	ND		1.0	0.56	ug/L			08/02/17 04:34	1
Chlorobenzene	ND		1.0	0.15	ug/L			08/02/17 04:34	1
Chloroform	ND		1.0	0.27	ug/L			08/02/17 04:34	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			08/02/17 04:34	1
1,2-Dichlorobenzene	ND		1.0	0.23	ug/L			08/02/17 04:34	1
1,3-Dichlorobenzene	ND		1.0	0.21	ug/L			08/02/17 04:34	1
1,4-Dichlorobenzene	ND		1.0	0.24	ug/L			08/02/17 04:34	1
1,1-Dichloroethane	ND		1.0	0.34	ug/L			08/02/17 04:34	1
1,2-Dichloroethane	ND		1.0	0.24	ug/L			08/02/17 04:34	1
1,1-Dichloroethene	ND		1.0	0.32	ug/L			08/02/17 04:34	1
Ethylbenzene	ND		1.0	0.25	ug/L			08/02/17 04:34	1
Methylene Chloride	ND		1.0	0.94	ug/L			08/02/17 04:34	1
Methyl tert-butyl ether	ND		1.0	0.20	ug/L			08/02/17 04:34	1
n-Butylbenzene	ND		1.0	0.22	ug/L			08/02/17 04:34	1
N-Propylbenzene	ND		1.0	0.20	ug/L			08/02/17 04:34	1
sec-Butylbenzene	ND		1.0	0.22	ug/L			08/02/17 04:34	1
tert-Butylbenzene	ND		1.0	0.17	ug/L			08/02/17 04:34	1
Tetrachloroethene	ND		1.0	0.24	ug/L			08/02/17 04:34	1
Toluene	**0.21**	**J**	1.0	0.16	ug/L			08/02/17 04:34	1
trans-1,2-Dichloroethene	ND		1.0	0.20	ug/L			08/02/17 04:34	1
1,1,1-Trichloroethane	ND		1.0	0.27	ug/L			08/02/17 04:34	1
Trichloroethene	ND		1.0	0.20	ug/L			08/02/17 04:34	1
1,2,4-Trimethylbenzene	ND		1.0	0.18	ug/L			08/02/17 04:34	1
1,3,5-Trimethylbenzene	ND		1.0	0.17	ug/L			08/02/17 04:34	1
Vinyl chloride	ND		1.0	0.17	ug/L			08/02/17 04:34	1
Xylenes, Total	ND		2.0	0.27	ug/L			08/02/17 04:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*72 - 120*		*08/02/17 04:34*	*1*
Dibromofluoromethane (Surr)	*97*		*77 - 127*		*08/02/17 04:34*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*72 - 134*		*08/02/17 04:34*	*1*
Toluene-d8 (Surr)	*89*		*80 - 120*		*08/02/17 04:34*	*1*

Client Sample ID: DUP 20
Date Collected: 07/31/17 00:00
Date Received: 08/01/17 08:40

Lab Sample ID: 180-68756-18
Matrix: Solid
Percent Solids: 88.3

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.019	0.0031	mg/Kg	☼	08/02/17 07:00	08/02/17 14:47	1
Benzene	ND		0.0049	0.0019	mg/Kg	☼	08/02/17 07:00	08/02/17 14:47	1
2-Butanone (MEK)	ND		0.0049	0.0028	mg/Kg	☼	08/02/17 07:00	08/02/17 14:47	1
Carbon tetrachloride	ND		0.0049	0.0032	mg/Kg	☼	08/02/17 07:00	08/02/17 14:47	1
Chlorobenzene	ND		0.0049	0.0015	mg/Kg	☼	08/02/17 07:00	08/02/17 14:47	1
Chloroform	ND		0.0049	0.0021	mg/Kg	☼	08/02/17 07:00	08/02/17 14:47	1
cis-1,2-Dichloroethene	ND		0.0049	0.0015	mg/Kg	☼	08/02/17 07:00	08/02/17 14:47	1
1,2-Dichlorobenzene	ND		0.0049	0.0039	mg/Kg	☼	08/02/17 07:00	08/02/17 14:47	1
1,3-Dichlorobenzene	ND		0.0049	0.0016	mg/Kg	☼	08/02/17 07:00	08/02/17 14:47	1
1,4-Dichlorobenzene	ND		0.0049	0.00099	mg/Kg	☼	08/02/17 07:00	08/02/17 14:47	1
1,1-Dichloroethane	ND		0.0049	0.0018	mg/Kg	☼	08/02/17 07:00	08/02/17 14:47	1
1,2-Dichloroethane	ND		0.0049	0.0014	mg/Kg	☼	08/02/17 07:00	08/02/17 14:47	1
1,1-Dichloroethene	ND		0.0049	0.0028	mg/Kg	☼	08/02/17 07:00	08/02/17 14:47	1
Ethylbenzene	ND		0.0049	0.0021	mg/Kg	☼	08/02/17 07:00	08/02/17 14:47	1
Methylene Chloride	ND		0.0049	0.0023	mg/Kg	☼	08/02/17 07:00	08/02/17 14:47	1
Methyl tert-butyl ether	ND		0.0049	0.0036	mg/Kg	☼	08/02/17 07:00	08/02/17 14:47	1
n-Butylbenzene	ND		0.0049	0.0037	mg/Kg	☼	08/02/17 07:00	08/02/17 14:47	1
N-Propylbenzene	ND		0.0049	0.0021	mg/Kg	☼	08/02/17 07:00	08/02/17 14:47	1
sec-Butylbenzene	ND		0.0049	0.0024	mg/Kg	☼	08/02/17 07:00	08/02/17 14:47	1
tert-Butylbenzene	ND		0.0049	0.0018	mg/Kg	☼	08/02/17 07:00	08/02/17 14:47	1
Tetrachloroethene	ND		0.0049	0.0020	mg/Kg	☼	08/02/17 07:00	08/02/17 14:47	1
Toluene	ND		0.0049	0.0016	mg/Kg	☼	08/02/17 07:00	08/02/17 14:47	1
trans-1,2-Dichloroethene	ND		0.0049	0.0025	mg/Kg	☼	08/02/17 07:00	08/02/17 14:47	1
1,1,1-Trichloroethane	ND		0.0049	0.0024	mg/Kg	☼	08/02/17 07:00	08/02/17 14:47	1
Trichloroethene	ND		0.0049	0.0015	mg/Kg	☼	08/02/17 07:00	08/02/17 14:47	1
1,2,4-Trimethylbenzene	ND		0.0049	0.0013	mg/Kg	☼	08/02/17 07:00	08/02/17 14:47	1
1,3,5-Trimethylbenzene	ND		0.0049	0.0017	mg/Kg	☼	08/02/17 07:00	08/02/17 14:47	1
Vinyl chloride	ND		0.0049	0.0036	mg/Kg	☼	08/02/17 07:00	08/02/17 14:47	1
Xylenes, Total	ND		0.0097	0.0042	mg/Kg	☼	08/02/17 07:00	08/02/17 14:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*63 - 120*	*08/02/17 07:00*	*08/02/17 14:47*	*1*
Dibromofluoromethane (Surr)	*98*		*68 - 121*	*08/02/17 07:00*	*08/02/17 14:47*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*52 - 124*	*08/02/17 07:00*	*08/02/17 14:47*	*1*
Toluene-d8 (Surr)	*111*		*72 - 127*	*08/02/17 07:00*	*08/02/17 14:47*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**11.7**		0.1	0.1	%			08/01/17 13:27	1
Percent Solids	**88.3**		0.1	0.1	%			08/01/17 13:27	1

Method: 8260C - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 180-218804/5
Matrix: Water
Analysis Batch: 218804

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		5.0	3.1	ug/L			08/02/17 04:10	1
Benzene	ND		1.0	0.18	ug/L			08/02/17 04:10	1
2-Butanone (MEK)	ND		5.0	2.6	ug/L			08/02/17 04:10	1
Carbon tetrachloride	ND		1.0	0.56	ug/L			08/02/17 04:10	1
Chlorobenzene	ND		1.0	0.15	ug/L			08/02/17 04:10	1
Chloroform	ND		1.0	0.27	ug/L			08/02/17 04:10	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			08/02/17 04:10	1
1,2-Dichlorobenzene	ND		1.0	0.23	ug/L			08/02/17 04:10	1
1,3-Dichlorobenzene	ND		1.0	0.21	ug/L			08/02/17 04:10	1
1,4-Dichlorobenzene	ND		1.0	0.24	ug/L			08/02/17 04:10	1
1,1-Dichloroethane	ND		1.0	0.34	ug/L			08/02/17 04:10	1
1,2-Dichloroethane	ND		1.0	0.24	ug/L			08/02/17 04:10	1
1,1-Dichloroethene	ND		1.0	0.32	ug/L			08/02/17 04:10	1
Ethylbenzene	ND		1.0	0.25	ug/L			08/02/17 04:10	1
Methylene Chloride	ND		1.0	0.94	ug/L			08/02/17 04:10	1
Methyl tert-butyl ether	ND		1.0	0.20	ug/L			08/02/17 04:10	1
n-Butylbenzene	ND		1.0	0.22	ug/L			08/02/17 04:10	1
N-Propylbenzene	ND		1.0	0.20	ug/L			08/02/17 04:10	1
sec-Butylbenzene	ND		1.0	0.22	ug/L			08/02/17 04:10	1
tert-Butylbenzene	ND		1.0	0.17	ug/L			08/02/17 04:10	1
Tetrachloroethene	ND		1.0	0.24	ug/L			08/02/17 04:10	1
Toluene	ND		1.0	0.16	ug/L			08/02/17 04:10	1
trans-1,2-Dichloroethene	ND		1.0	0.20	ug/L			08/02/17 04:10	1
1,1,1-Trichloroethane	ND		1.0	0.27	ug/L			08/02/17 04:10	1
Trichloroethene	ND		1.0	0.20	ug/L			08/02/17 04:10	1
1,2,4-Trimethylbenzene	ND		1.0	0.18	ug/L			08/02/17 04:10	1
1,3,5-Trimethylbenzene	ND		1.0	0.17	ug/L			08/02/17 04:10	1
Vinyl chloride	ND		1.0	0.17	ug/L			08/02/17 04:10	1
Xylenes, Total	ND		2.0	0.27	ug/L			08/02/17 04:10	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*72 - 120*		*08/02/17 04:10*	*1*
Dibromofluoromethane (Surr)	*95*		*77 - 127*		*08/02/17 04:10*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*72 - 134*		*08/02/17 04:10*	*1*
Toluene-d8 (Surr)	*89*		*80 - 120*		*08/02/17 04:10*	*1*

Lab Sample ID: LCS 180-218804/3
Matrix: Water
Analysis Batch: 218804

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	20.0	18.1		ug/L		90	10 - 150
Benzene	10.0	9.23		ug/L		92	80 - 121
2-Butanone (MEK)	20.0	16.6		ug/L		83	41 - 150
Carbon tetrachloride	10.0	9.33		ug/L		93	59 - 145
Chlorobenzene	10.0	9.20		ug/L		92	80 - 120
Chloroform	10.0	8.83		ug/L		88	78 - 122
cis-1,2-Dichloroethene	10.0	8.68		ug/L		87	80 - 120

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 180-218804/3
Matrix: Water
Analysis Batch: 218804

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichlorobenzene	10.0	9.01		ug/L		90	80 - 120
1,3-Dichlorobenzene	10.0	9.21		ug/L		92	80 - 120
1,4-Dichlorobenzene	10.0	9.10		ug/L		91	80 - 120
1,1-Dichloroethane	10.0	8.94		ug/L		89	76 - 126
1,2-Dichloroethane	10.0	9.01		ug/L		90	72 - 126
1,1-Dichloroethene	10.0	9.51		ug/L		95	71 - 122
Ethylbenzene	10.0	9.38		ug/L		94	80 - 123
Methylene Chloride	10.0	8.87		ug/L		89	71 - 129
Methyl tert-butyl ether	10.0	8.87		ug/L		89	68 - 124
n-Butylbenzene	10.0	10.0		ug/L		100	75 - 120
N-Propylbenzene	10.0	9.75		ug/L		98	78 - 121
sec-Butylbenzene	10.0	10.2		ug/L		102	80 - 121
tert-Butylbenzene	10.0	9.93		ug/L		99	79 - 120
Tetrachloroethene	10.0	9.73		ug/L		97	80 - 122
Toluene	10.0	9.97		ug/L		100	80 - 125
trans-1,2-Dichloroethene	10.0	9.58		ug/L		96	80 - 121
1,1,1-Trichloroethane	10.0	9.89		ug/L		99	57 - 128
Trichloroethene	10.0	8.62		ug/L		86	79 - 120
1,2,4-Trimethylbenzene	10.0	9.78		ug/L		98	80 - 120
1,3,5-Trimethylbenzene	10.0	9.99		ug/L		100	80 - 122
Vinyl chloride	10.0	10.3		ug/L		103	61 - 138
Xylenes, Total	20.0	18.9		ug/L		95	80 - 123

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*72 - 120*
Dibromofluoromethane (Surr)	*93*		*77 - 127*
1,2-Dichloroethane-d4 (Surr)	*95*		*72 - 134*
Toluene-d8 (Surr)	*104*		*80 - 120*

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 180-218817/9
Matrix: Solid
Analysis Batch: 218817

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.020	0.0032	mg/Kg			08/02/17 10:16	1
Benzene	ND		0.0050	0.0020	mg/Kg			08/02/17 10:16	1
2-Butanone (MEK)	ND		0.0050	0.0029	mg/Kg			08/02/17 10:16	1
Carbon tetrachloride	ND		0.0050	0.0033	mg/Kg			08/02/17 10:16	1
Chlorobenzene	ND		0.0050	0.0016	mg/Kg			08/02/17 10:16	1
Chloroform	ND		0.0050	0.0021	mg/Kg			08/02/17 10:16	1
cis-1,2-Dichloroethene	ND		0.0050	0.0016	mg/Kg			08/02/17 10:16	1
1,2-Dichlorobenzene	ND		0.0050	0.0040	mg/Kg			08/02/17 10:16	1
1,3-Dichlorobenzene	ND		0.0050	0.0016	mg/Kg			08/02/17 10:16	1
1,4-Dichlorobenzene	ND		0.0050	0.0010	mg/Kg			08/02/17 10:16	1
1,1-Dichloroethane	ND		0.0050	0.0018	mg/Kg			08/02/17 10:16	1
1,2-Dichloroethane	ND		0.0050	0.0015	mg/Kg			08/02/17 10:16	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 180-218817/9
Matrix: Solid
Analysis Batch: 218817

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		0.0050	0.0029	mg/Kg			08/02/17 10:16	1
Ethylbenzene	ND		0.0050	0.0022	mg/Kg			08/02/17 10:16	1
Methylene Chloride	ND		0.0050	0.0024	mg/Kg			08/02/17 10:16	1
Methyl tert-butyl ether	ND		0.0050	0.0037	mg/Kg			08/02/17 10:16	1
n-Butylbenzene	ND		0.0050	0.0038	mg/Kg			08/02/17 10:16	1
N-Propylbenzene	ND		0.0050	0.0021	mg/Kg			08/02/17 10:16	1
sec-Butylbenzene	ND		0.0050	0.0024	mg/Kg			08/02/17 10:16	1
tert-Butylbenzene	ND		0.0050	0.0018	mg/Kg			08/02/17 10:16	1
Tetrachloroethene	ND		0.0050	0.0020	mg/Kg			08/02/17 10:16	1
Toluene	ND		0.0050	0.0017	mg/Kg			08/02/17 10:16	1
trans-1,2-Dichloroethene	ND		0.0050	0.0025	mg/Kg			08/02/17 10:16	1
1,1,1-Trichloroethane	ND		0.0050	0.0025	mg/Kg			08/02/17 10:16	1
Trichloroethene	ND		0.0050	0.0015	mg/Kg			08/02/17 10:16	1
1,2,4-Trimethylbenzene	ND		0.0050	0.0013	mg/Kg			08/02/17 10:16	1
1,3,5-Trimethylbenzene	ND		0.0050	0.0017	mg/Kg			08/02/17 10:16	1
Vinyl chloride	ND		0.0050	0.0037	mg/Kg			08/02/17 10:16	1
Xylenes, Total	ND		0.010	0.0043	mg/Kg			08/02/17 10:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*63 - 120*		*08/02/17 10:16*	*1*
Dibromofluoromethane (Surr)	*102*		*68 - 121*		*08/02/17 10:16*	*1*
1,2-Dichloroethane-d4 (Surr)	*123*		*52 - 124*		*08/02/17 10:16*	*1*
Toluene-d8 (Surr)	*103*		*72 - 127*		*08/02/17 10:16*	*1*

Lab Sample ID: LCS 180-218817/4
Matrix: Solid
Analysis Batch: 218817

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0400	0.0347		mg/Kg		87	20 - 150
Benzene	0.0400	0.0378		mg/Kg		95	77 - 120
2-Butanone (MEK)	0.0400	0.0311		mg/Kg		78	35 - 149
Carbon tetrachloride	0.0400	0.0423		mg/Kg		106	69 - 122
Chlorobenzene	0.0400	0.0371		mg/Kg		93	79 - 120
Chloroform	0.0400	0.0418		mg/Kg		104	72 - 120
cis-1,2-Dichloroethene	0.0400	0.0385		mg/Kg		96	80 - 118
1,2-Dichlorobenzene	0.0400	0.0367		mg/Kg		92	71 - 124
1,3-Dichlorobenzene	0.0400	0.0357		mg/Kg		89	75 - 118
1,4-Dichlorobenzene	0.0400	0.0362		mg/Kg		91	77 - 116
1,1-Dichloroethane	0.0400	0.0412		mg/Kg		103	66 - 124
1,2-Dichloroethane	0.0400	0.0457		mg/Kg		114	61 - 127
1,1-Dichloroethene	0.0400	0.0367		mg/Kg		92	59 - 129
Ethylbenzene	0.0400	0.0365		mg/Kg		91	78 - 125
Methylene Chloride	0.0400	0.0394		mg/Kg		98	58 - 127
Methyl tert-butyl ether	0.0400	0.0433		mg/Kg		108	48 - 132
n-Butylbenzene	0.0400	0.0404		mg/Kg		101	59 - 145
N-Propylbenzene	0.0400	0.0376		mg/Kg		94	80 - 120
sec-Butylbenzene	0.0400	0.0385		mg/Kg		96	70 - 130

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 180-218817/4
Matrix: Solid
Analysis Batch: 218817

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
tert-Butylbenzene	0.0400	0.0379		mg/Kg		95	74 - 133
Tetrachloroethene	0.0400	0.0321		mg/Kg		80	78 - 129
Toluene	0.0400	0.0368		mg/Kg		92	78 - 124
trans-1,2-Dichloroethene	0.0400	0.0399		mg/Kg		100	77 - 121
1,1,1-Trichloroethane	0.0400	0.0444		mg/Kg		111	67 - 126
Trichloroethene	0.0400	0.0356		mg/Kg		89	76 - 119
1,2,4-Trimethylbenzene	0.0400	0.0382		mg/Kg		95	80 - 121
1,3,5-Trimethylbenzene	0.0400	0.0383		mg/Kg		96	68 - 133
Vinyl chloride	0.0400	0.0335		mg/Kg		84	63 - 124
Xylenes, Total	0.0800	0.0719		mg/Kg		90	83 - 126

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*63 - 120*
Dibromofluoromethane (Surr)	*102*		*68 - 121*
1,2-Dichloroethane-d4 (Surr)	*116*		*52 - 124*
Toluene-d8 (Surr)	*98*		*72 - 127*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Lab Sample ID: MB 180-218783/1-A
Matrix: Solid
Analysis Batch: 218840

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 218783

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0067	0.0022	mg/Kg		08/01/17 12:15	08/02/17 10:36	1
Acenaphthylene	ND		0.0067	0.0023	mg/Kg		08/01/17 12:15	08/02/17 10:36	1
Anthracene	ND		0.0067	0.0025	mg/Kg		08/01/17 12:15	08/02/17 10:36	1
Benzo[a]anthracene	ND		0.0067	0.0026	mg/Kg		08/01/17 12:15	08/02/17 10:36	1
Benzo[a]pyrene	ND		0.0067	0.0028	mg/Kg		08/01/17 12:15	08/02/17 10:36	1
Benzo[b]fluoranthene	ND		0.0067	0.0029	mg/Kg		08/01/17 12:15	08/02/17 10:36	1
Benzo[g,h,i]perylene	ND		0.0067	0.0029	mg/Kg		08/01/17 12:15	08/02/17 10:36	1
Benzo[k]fluoranthene	ND		0.0067	0.0023	mg/Kg		08/01/17 12:15	08/02/17 10:36	1
Chrysene	ND		0.0067	0.0026	mg/Kg		08/01/17 12:15	08/02/17 10:36	1
Dibenz(a,h)anthracene	ND		0.0067	0.0028	mg/Kg		08/01/17 12:15	08/02/17 10:36	1
Dibenzofuran	ND		0.033	0.0027	mg/Kg		08/01/17 12:15	08/02/17 10:36	1
2,4-Dinitrotoluene	ND		33	4.4	ug/Kg		08/01/17 12:15	08/02/17 10:36	1
1,4-Dioxane	ND		0.067	0.0050	mg/Kg		08/01/17 12:15	08/02/17 10:36	1
Fluoranthene	ND		0.0067	0.0026	mg/Kg		08/01/17 12:15	08/02/17 10:36	1
Fluorene	ND		0.0067	0.0024	mg/Kg		08/01/17 12:15	08/02/17 10:36	1
Hexachlorobenzene	ND		0.0067	0.0027	mg/Kg		08/01/17 12:15	08/02/17 10:36	1
Hexachlorobutadiene	ND		6.7	2.1	ug/Kg		08/01/17 12:15	08/02/17 10:36	1
Hexachloroethane	ND		33	2.4	ug/Kg		08/01/17 12:15	08/02/17 10:36	1
Indeno[1,2,3-cd]pyrene	ND		0.0067	0.0026	mg/Kg		08/01/17 12:15	08/02/17 10:36	1
2-Methylphenol	ND		0.033	0.0029	mg/Kg		08/01/17 12:15	08/02/17 10:36	1
Methylphenol, 3 & 4	ND		0.033	0.0030	mg/Kg		08/01/17 12:15	08/02/17 10:36	1
Naphthalene	ND		0.0067	0.0024	mg/Kg		08/01/17 12:15	08/02/17 10:36	1
Nitrobenzene	ND		67	2.5	ug/Kg		08/01/17 12:15	08/02/17 10:36	1
Pentachlorophenol	ND		0.17	0.063	mg/Kg		08/01/17 12:15	08/02/17 10:36	1

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: MB 180-218783/1-A
Matrix: Solid
Analysis Batch: 218840

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 218783

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenanthrene	ND		0.0067	0.0028	mg/Kg		08/01/17 12:15	08/02/17 10:36	1
Phenol	ND		0.033	0.0045	mg/Kg		08/01/17 12:15	08/02/17 10:36	1
Pyrene	ND		0.0067	0.0030	mg/Kg		08/01/17 12:15	08/02/17 10:36	1
Pyridine	ND		33	3.2	ug/Kg		08/01/17 12:15	08/02/17 10:36	1
2,4,5-Trichlorophenol	ND		33	3.2	ug/Kg		08/01/17 12:15	08/02/17 10:36	1
2,4,6-Trichlorophenol	ND		33	2.9	ug/Kg		08/01/17 12:15	08/02/17 10:36	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*70*		*42 - 100*	*08/01/17 12:15*	*08/02/17 10:36*	*1*
2-Fluorophenol (Surr)	*69*		*21 - 107*	*08/01/17 12:15*	*08/02/17 10:36*	*1*
Nitrobenzene-d5 (Surr)	*66*		*35 - 109*	*08/01/17 12:15*	*08/02/17 10:36*	*1*
Phenol-d5 (Surr)	*66*		*29 - 105*	*08/01/17 12:15*	*08/02/17 10:36*	*1*
Terphenyl-d14 (Surr)	*65*		*36 - 113*	*08/01/17 12:15*	*08/02/17 10:36*	*1*
2,4,6-Tribromophenol (Surr)	*59*		*20 - 134*	*08/01/17 12:15*	*08/02/17 10:36*	*1*

Lab Sample ID: LCS 180-218783/2-A
Matrix: Solid
Analysis Batch: 218840

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 218783

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	0.667	0.464		mg/Kg		70	39 - 100
Acenaphthylene	0.667	0.459		mg/Kg		69	42 - 100
Anthracene	0.667	0.455		mg/Kg		68	43 - 100
Benzo[a]anthracene	0.667	0.459		mg/Kg		69	43 - 100
Benzo[a]pyrene	0.667	0.429		mg/Kg		64	43 - 100
Benzo[b]fluoranthene	0.667	0.416		mg/Kg		62	40 - 100
Benzo[g,h,i]perylene	0.667	0.487		mg/Kg		73	41 - 102
Benzo[k]fluoranthene	0.667	0.464		mg/Kg		70	44 - 100
Chrysene	0.667	0.440		mg/Kg		66	44 - 100
Dibenz(a,h)anthracene	0.667	0.502		mg/Kg		75	40 - 104
Dibenzofuran	0.667	0.473		mg/Kg		71	42 - 100
2,4-Dinitrotoluene	667	501		ug/Kg		75	42 - 110
1,4-Dioxane	0.667	0.449		mg/Kg		67	19 - 107
Fluoranthene	0.667	0.473		mg/Kg		71	41 - 104
Fluorene	0.667	0.481		mg/Kg		72	41 - 100
Hexachlorobenzene	0.667	0.449		mg/Kg		67	43 - 100
Hexachlorobutadiene	667	439		ug/Kg		66	35 - 100
Hexachloroethane	667	453		ug/Kg		68	35 - 100
Indeno[1,2,3-cd]pyrene	0.667	0.502		mg/Kg		75	41 - 104
2-Methylphenol	0.667	0.432		mg/Kg		65	38 - 100
Methylphenol, 3 & 4	0.667	0.454		mg/Kg		68	40 - 100
Naphthalene	0.667	0.455		mg/Kg		68	38 - 100
Nitrobenzene	667	457		ug/Kg		69	34 - 100
Pentachlorophenol	1.33	0.777		mg/Kg		58	34 - 102
Phenanthrene	0.667	0.431		mg/Kg		65	41 - 100
Phenol	0.667	0.437		mg/Kg		66	36 - 100
Pyrene	0.667	0.447		mg/Kg		67	42 - 100
Pyridine	1330	955		ug/Kg		72	25 - 119

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCS 180-218783/2-A
Matrix: Solid
Analysis Batch: 218840

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 218783

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
2,4,5-Trichlorophenol			667	457		ug/Kg		68	42 - 100		
2,4,6-Trichlorophenol			667	499		ug/Kg		75	41 - 103		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*67*		*42 - 100*
2-Fluorophenol (Surr)	*67*		*21 - 107*
Nitrobenzene-d5 (Surr)	*68*		*35 - 109*
Phenol-d5 (Surr)	*68*		*29 - 105*
Terphenyl-d14 (Surr)	*67*		*36 - 113*
2,4,6-Tribromophenol (Surr)	*64*		*20 - 134*

Lab Sample ID: LCSD 180-218783/3-A
Matrix: Solid
Analysis Batch: 218840

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 218783

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene			0.667	0.438		mg/Kg		66	39 - 100	6	20
Acenaphthylene			0.667	0.441		mg/Kg		66	42 - 100	4	20
Anthracene			0.667	0.447		mg/Kg		67	43 - 100	2	20
Benzo[a]anthracene			0.667	0.451		mg/Kg		68	43 - 100	2	20
Benzo[a]pyrene			0.667	0.434		mg/Kg		65	43 - 100	1	20
Benzo[b]fluoranthene			0.667	0.428		mg/Kg		64	40 - 100	3	20
Benzo[g,h,i]perylene			0.667	0.468		mg/Kg		70	41 - 102	4	20
Benzo[k]fluoranthene			0.667	0.431		mg/Kg		65	44 - 100	7	20
Chrysene			0.667	0.435		mg/Kg		65	44 - 100	1	20
Dibenz(a,h)anthracene			0.667	0.493		mg/Kg		74	40 - 104	2	26
Dibenzofuran			0.667	0.446		mg/Kg		67	42 - 100	6	23
2,4-Dinitrotoluene			667	479		ug/Kg		72	42 - 110	5	21
1,4-Dioxane			0.667	0.437		mg/Kg		66	19 - 107	3	20
Fluoranthene			0.667	0.476		mg/Kg		71	41 - 104	1	20
Fluorene			0.667	0.438		mg/Kg		66	41 - 100	9	21
Hexachlorobenzene			0.667	0.441		mg/Kg		66	43 - 100	2	21
Hexachlorobutadiene			667	430		ug/Kg		65	35 - 100	2	20
Hexachloroethane			667	461		ug/Kg		69	35 - 100	2	20
Indeno[1,2,3-cd]pyrene			0.667	0.484		mg/Kg		73	41 - 104	4	25
2-Methylphenol			0.667	0.455		mg/Kg		68	38 - 100	5	20
Methylphenol, 3 & 4			0.667	0.447		mg/Kg		67	40 - 100	1	20
Naphthalene			0.667	0.448		mg/Kg		67	38 - 100	2	20
Nitrobenzene			667	463		ug/Kg		69	34 - 100	1	20
Pentachlorophenol			1.33	0.769		mg/Kg		58	34 - 102	1	20
Phenanthrene			0.667	0.440		mg/Kg		66	41 - 100	2	20
Phenol			0.667	0.449		mg/Kg		67	36 - 100	3	20
Pyrene			0.667	0.440		mg/Kg		66	42 - 100	2	21
Pyridine			1330	952		ug/Kg		71	25 - 119	0	20
2,4,5-Trichlorophenol			667	426		ug/Kg		64	42 - 100	7	22
2,4,6-Trichlorophenol			667	483		ug/Kg		72	41 - 103	3	25

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCSD 180-218783/3-A
Matrix: Solid
Analysis Batch: 218840

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 218783

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*64*		*42 - 100*
2-Fluorophenol (Surr)	*67*		*21 - 107*
Nitrobenzene-d5 (Surr)	*67*		*35 - 109*
Phenol-d5 (Surr)	*70*		*29 - 105*
Terphenyl-d14 (Surr)	*67*		*36 - 113*
2,4,6-Tribromophenol (Surr)	*65*		*20 - 134*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 180-218784/1-C
Matrix: Solid
Analysis Batch: 218834

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 218784

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.017	0.0088	mg/Kg		08/01/17 12:15	08/02/17 13:39	1
PCB-1221	ND		0.017	0.0086	mg/Kg		08/01/17 12:15	08/02/17 13:39	1
PCB-1232	ND		0.017	0.0066	mg/Kg		08/01/17 12:15	08/02/17 13:39	1
PCB-1242	ND		0.017	0.013	mg/Kg		08/01/17 12:15	08/02/17 13:39	1
PCB-1248	ND		0.017	0.0080	mg/Kg		08/01/17 12:15	08/02/17 13:39	1
PCB-1254	ND		0.017	0.0073	mg/Kg		08/01/17 12:15	08/02/17 13:39	1
PCB-1260	ND		0.017	0.011	mg/Kg		08/01/17 12:15	08/02/17 13:39	1
PCB-1262	ND		0.017	0.012	mg/Kg		08/01/17 12:15	08/02/17 13:39	1
PCB-1268	ND		0.017	0.0051	mg/Kg		08/01/17 12:15	08/02/17 13:39	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*92*		*23 - 150*	*08/01/17 12:15*	*08/02/17 13:39*	*1*
DCB Decachlorobiphenyl (Surr)	*92*		*23 - 150*	*08/01/17 12:15*	*08/02/17 13:39*	*1*
Tetrachloro-m-xylene (Surr)	*101*		*27 - 138*	*08/01/17 12:15*	*08/02/17 13:39*	*1*
Tetrachloro-m-xylene (Surr)	*94*		*27 - 138*	*08/01/17 12:15*	*08/02/17 13:39*	*1*

Lab Sample ID: LCS 180-218784/2-C
Matrix: Solid
Analysis Batch: 218834

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 218784

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			1.33	1.32		mg/Kg		99	52 - 126		
PCB-1260			1.33	1.30		mg/Kg		98	50 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*91*		*23 - 150*
DCB Decachlorobiphenyl (Surr)	*95*		*23 - 150*
Tetrachloro-m-xylene (Surr)	*102*		*27 - 138*
Tetrachloro-m-xylene (Surr)	*93*		*27 - 138*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCSD 180-218784/3-C
Matrix: Solid
Analysis Batch: 218834

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 218784

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016			1.33	1.30		mg/Kg		97	52 - 126	2	20
PCB-1260			1.33	1.30		mg/Kg		97	50 - 130	1	21

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*90*		*23 - 150*
DCB Decachlorobiphenyl (Surr)	*93*		*23 - 150*
Tetrachloro-m-xylene (Surr)	*102*		*27 - 138*
Tetrachloro-m-xylene (Surr)	*92*		*27 - 138*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 180-218882/1-A
Matrix: Solid
Analysis Batch: 219034

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 218882

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		1.0	0.44	mg/Kg		08/02/17 11:34	08/03/17 10:45	1
Barium	ND		20	5.4	mg/Kg		08/02/17 11:34	08/03/17 10:45	1
Beryllium	ND		0.40	0.10	mg/Kg		08/02/17 11:34	08/03/17 10:45	1
Cadmium	ND		0.50	0.11	mg/Kg		08/02/17 11:34	08/03/17 10:45	1
Chromium	ND		0.50	0.13	mg/Kg		08/02/17 11:34	08/03/17 10:45	1
Copper	ND		2.5	0.77	mg/Kg		08/02/17 11:34	08/03/17 10:45	1
Lead	ND		1.0	0.33	mg/Kg		08/02/17 11:34	08/03/17 10:45	1
Manganese	ND		1.5	0.41	mg/Kg		08/02/17 11:34	08/03/17 10:45	1
Nickel	ND		4.0	0.90	mg/Kg		08/02/17 11:34	08/03/17 10:45	1
Selenium	ND		1.0	0.40	mg/Kg		08/02/17 11:34	08/03/17 10:45	1
Silver	ND		0.50	0.17	mg/Kg		08/02/17 11:34	08/03/17 10:45	1
Zinc	ND		2.0	1.0	mg/Kg		08/02/17 11:34	08/03/17 10:45	1

Lab Sample ID: LCS 180-218882/2-A
Matrix: Solid
Analysis Batch: 219034

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 218882

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic			50.0	48.7		mg/Kg		97	80 - 120
Barium			200	185		mg/Kg		92	80 - 120
Beryllium			5.00	4.87		mg/Kg		97	80 - 120
Cadmium			5.00	4.78		mg/Kg		96	80 - 120
Chromium			20.0	19.6		mg/Kg		98	80 - 120
Copper			25.0	24.9		mg/Kg		100	80 - 120
Lead			50.0	47.5		mg/Kg		95	80 - 120
Manganese			50.0	46.9		mg/Kg		94	80 - 120
Nickel			50.0	49.9		mg/Kg		100	80 - 120
Selenium			50.0	47.7		mg/Kg		95	80 - 120
Silver			5.00	4.92		mg/Kg		98	80 - 120
Zinc			50.0	49.8		mg/Kg		100	80 - 120

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 180-218756/1-A
Matrix: Solid
Analysis Batch: 218849

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 218756

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.033	0.0074	mg/Kg		08/01/17 13:50	08/02/17 07:20	1

Lab Sample ID: LCS 180-218756/2-A
Matrix: Solid
Analysis Batch: 218849

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 218756

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.417	0.448		mg/Kg		108	80 - 120

Lab Sample ID: 180-68756-3 MS
Matrix: Solid
Analysis Batch: 218849

Client Sample ID: W1-b, S1, C 073117
Prep Type: Total/NA
Prep Batch: 218756

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.058	F1 F2	0.188	0.0643	F1	mg/Kg	☼	3	80 - 120

Lab Sample ID: 180-68756-3 MSD
Matrix: Solid
Analysis Batch: 218849

Client Sample ID: W1-b, S1, C 073117
Prep Type: Total/NA
Prep Batch: 218756

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.058	F1 F2	0.205	0.0313	J F1 F2	mg/Kg	☼	-13	80 - 120	69	20

Method: 9014 - Cyanide

Lab Sample ID: MB 180-218907/4-A
Matrix: Solid
Analysis Batch: 219021

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 218907

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.50	0.15	mg/Kg		08/02/17 13:35	08/03/17 11:09	1

Lab Sample ID: HLCS 180-218907/2-A
Matrix: Solid
Analysis Batch: 219021

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 218907

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.250	0.255		mg/Kg		102	90 - 110

Lab Sample ID: LCS 180-218907/3-A
Matrix: Solid
Analysis Batch: 219021

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 218907

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	164	119		mg/Kg		73	38 - 162

Method: 9014 - Cyanide (Continued)

Lab Sample ID: LLCS 180-218907/1-A
Matrix: Solid
Analysis Batch: 219021

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 218907

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.0500	0.0501		mg/Kg		100	90 - 110

GC/MS VOA

Analysis Batch: 218804

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68756-17	TRIP BLANK #1	Total/NA	Water	8260C	
MB 180-218804/5	Method Blank	Total/NA	Water	8260C	
LCS 180-218804/3	Lab Control Sample	Total/NA	Water	8260C	

Analysis Batch: 218817

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68756-1	W1-b, S1, A 073117	Total/NA	Solid	8260C	218835
180-68756-2	W1-b, S1, B 073117	Total/NA	Solid	8260C	218835
180-68756-4	W1-b, S2, A 073117	Total/NA	Solid	8260C	218835
180-68756-5	W1-b, S2, B 073117	Total/NA	Solid	8260C	218835
180-68756-7	W1-b, S3, A 073117	Total/NA	Solid	8260C	218835
180-68756-8	W1-b, S3, B 073117	Total/NA	Solid	8260C	218835
180-68756-10	W1-b, S4, A 073117	Total/NA	Solid	8260C	218835
180-68756-11	W1-b, S4, B 073117	Total/NA	Solid	8260C	218835
180-68756-18	DUP 20	Total/NA	Solid	8260C	218835
MB 180-218817/9	Method Blank	Total/NA	Solid	8260C	
LCS 180-218817/4	Lab Control Sample	Total/NA	Solid	8260C	

Prep Batch: 218835

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68756-1	W1-b, S1, A 073117	Total/NA	Solid	5035	
180-68756-2	W1-b, S1, B 073117	Total/NA	Solid	5035	
180-68756-4	W1-b, S2, A 073117	Total/NA	Solid	5035	
180-68756-5	W1-b, S2, B 073117	Total/NA	Solid	5035	
180-68756-7	W1-b, S3, A 073117	Total/NA	Solid	5035	
180-68756-8	W1-b, S3, B 073117	Total/NA	Solid	5035	
180-68756-10	W1-b, S4, A 073117	Total/NA	Solid	5035	
180-68756-11	W1-b, S4, B 073117	Total/NA	Solid	5035	
180-68756-18	DUP 20	Total/NA	Solid	5035	

GC/MS Semi VOA

Prep Batch: 218783

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68756-3	W1-b, S1, C 073117	Total/NA	Solid	3541	
180-68756-6	W1-b, S2, C 073117	Total/NA	Solid	3541	
180-68756-9	W1-b, S3, C 073117	Total/NA	Solid	3541	
180-68756-12	W1-b, S4, C 073117	Total/NA	Solid	3541	
MB 180-218783/1-A	Method Blank	Total/NA	Solid	3541	
LCS 180-218783/2-A	Lab Control Sample	Total/NA	Solid	3541	
LCSD 180-218783/3-A	Lab Control Sample Dup	Total/NA	Solid	3541	

Analysis Batch: 218840

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68756-3	W1-b, S1, C 073117	Total/NA	Solid	8270D LL	218783
MB 180-218783/1-A	Method Blank	Total/NA	Solid	8270D LL	218783
LCS 180-218783/2-A	Lab Control Sample	Total/NA	Solid	8270D LL	218783
LCSD 180-218783/3-A	Lab Control Sample Dup	Total/NA	Solid	8270D LL	218783

GC/MS Semi VOA (Continued)

Analysis Batch: 219016

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68756-6	W1-b, S2, C 073117	Total/NA	Solid	8270D LL	218783
180-68756-9	W1-b, S3, C 073117	Total/NA	Solid	8270D LL	218783
180-68756-12	W1-b, S4, C 073117	Total/NA	Solid	8270D LL	218783

GC Semi VOA

Prep Batch: 218784

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68756-3	W1-b, S1, C 073117	Total/NA	Solid	3541	
180-68756-6	W1-b, S2, C 073117	Total/NA	Solid	3541	
180-68756-9	W1-b, S3, C 073117	Total/NA	Solid	3541	
180-68756-12	W1-b, S4, C 073117	Total/NA	Solid	3541	
MB 180-218784/1-C	Method Blank	Total/NA	Solid	3541	
LCS 180-218784/2-C	Lab Control Sample	Total/NA	Solid	3541	
LCSD 180-218784/3-C	Lab Control Sample Dup	Total/NA	Solid	3541	

Cleanup Batch: 218827

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68756-3	W1-b, S1, C 073117	Total/NA	Solid	3665A	218784
180-68756-6	W1-b, S2, C 073117	Total/NA	Solid	3665A	218784
180-68756-9	W1-b, S3, C 073117	Total/NA	Solid	3665A	218784
180-68756-12	W1-b, S4, C 073117	Total/NA	Solid	3665A	218784
MB 180-218784/1-C	Method Blank	Total/NA	Solid	3665A	218784
LCS 180-218784/2-C	Lab Control Sample	Total/NA	Solid	3665A	218784
LCSD 180-218784/3-C	Lab Control Sample Dup	Total/NA	Solid	3665A	218784

Cleanup Batch: 218828

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68756-3	W1-b, S1, C 073117	Total/NA	Solid	3660B	218827
180-68756-6	W1-b, S2, C 073117	Total/NA	Solid	3660B	218827
180-68756-9	W1-b, S3, C 073117	Total/NA	Solid	3660B	218827
180-68756-12	W1-b, S4, C 073117	Total/NA	Solid	3660B	218827
MB 180-218784/1-C	Method Blank	Total/NA	Solid	3660B	218827
LCS 180-218784/2-C	Lab Control Sample	Total/NA	Solid	3660B	218827
LCSD 180-218784/3-C	Lab Control Sample Dup	Total/NA	Solid	3660B	218827

Analysis Batch: 218834

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68756-6	W1-b, S2, C 073117	Total/NA	Solid	8082A	218828
180-68756-9	W1-b, S3, C 073117	Total/NA	Solid	8082A	218828
180-68756-12	W1-b, S4, C 073117	Total/NA	Solid	8082A	218828
MB 180-218784/1-C	Method Blank	Total/NA	Solid	8082A	218828
LCS 180-218784/2-C	Lab Control Sample	Total/NA	Solid	8082A	218828
LCSD 180-218784/3-C	Lab Control Sample Dup	Total/NA	Solid	8082A	218828

Analysis Batch: 218951

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68756-3	W1-b, S1, C 073117	Total/NA	Solid	8082A	218828

Metals

Prep Batch: 218756

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68756-3	W1-b, S1, C 073117	Total/NA	Solid	7471B	
180-68756-6	W1-b, S2, C 073117	Total/NA	Solid	7471B	
180-68756-9	W1-b, S3, C 073117	Total/NA	Solid	7471B	
180-68756-12	W1-b, S4, C 073117	Total/NA	Solid	7471B	
MB 180-218756/1-A	Method Blank	Total/NA	Solid	7471B	
LCS 180-218756/2-A	Lab Control Sample	Total/NA	Solid	7471B	
180-68756-3 MS	W1-b, S1, C 073117	Total/NA	Solid	7471B	
180-68756-3 MSD	W1-b, S1, C 073117	Total/NA	Solid	7471B	

Analysis Batch: 218849

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68756-3	W1-b, S1, C 073117	Total/NA	Solid	7471B	218756
180-68756-6	W1-b, S2, C 073117	Total/NA	Solid	7471B	218756
180-68756-9	W1-b, S3, C 073117	Total/NA	Solid	7471B	218756
180-68756-12	W1-b, S4, C 073117	Total/NA	Solid	7471B	218756
MB 180-218756/1-A	Method Blank	Total/NA	Solid	7471B	218756
LCS 180-218756/2-A	Lab Control Sample	Total/NA	Solid	7471B	218756
180-68756-3 MS	W1-b, S1, C 073117	Total/NA	Solid	7471B	218756
180-68756-3 MSD	W1-b, S1, C 073117	Total/NA	Solid	7471B	218756

Prep Batch: 218882

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68756-3	W1-b, S1, C 073117	Total/NA	Solid	3050B	
180-68756-6	W1-b, S2, C 073117	Total/NA	Solid	3050B	
180-68756-9	W1-b, S3, C 073117	Total/NA	Solid	3050B	
180-68756-12	W1-b, S4, C 073117	Total/NA	Solid	3050B	
MB 180-218882/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 180-218882/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Analysis Batch: 219034

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68756-3	W1-b, S1, C 073117	Total/NA	Solid	6010C	218882
180-68756-6	W1-b, S2, C 073117	Total/NA	Solid	6010C	218882
180-68756-9	W1-b, S3, C 073117	Total/NA	Solid	6010C	218882
180-68756-12	W1-b, S4, C 073117	Total/NA	Solid	6010C	218882
MB 180-218882/1-A	Method Blank	Total/NA	Solid	6010C	218882
LCS 180-218882/2-A	Lab Control Sample	Total/NA	Solid	6010C	218882

General Chemistry

Analysis Batch: 218750

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68756-1	W1-b, S1, A 073117	Total/NA	Solid	2540G	
180-68756-2	W1-b, S1, B 073117	Total/NA	Solid	2540G	
180-68756-3	W1-b, S1, C 073117	Total/NA	Solid	2540G	
180-68756-4	W1-b, S2, A 073117	Total/NA	Solid	2540G	
180-68756-5	W1-b, S2, B 073117	Total/NA	Solid	2540G	
180-68756-6	W1-b, S2, C 073117	Total/NA	Solid	2540G	
180-68756-7	W1-b, S3, A 073117	Total/NA	Solid	2540G	
180-68756-8	W1-b, S3, B 073117	Total/NA	Solid	2540G	

General Chemistry (Continued)

Analysis Batch: 218750 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68756-9	W1-b, S3, C 073117	Total/NA	Solid	2540G	
180-68756-10	W1-b, S4, A 073117	Total/NA	Solid	2540G	
180-68756-11	W1-b, S4, B 073117	Total/NA	Solid	2540G	
180-68756-12	W1-b, S4, C 073117	Total/NA	Solid	2540G	
180-68756-18	DUP 20	Total/NA	Solid	2540G	

Prep Batch: 218907

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68756-3	W1-b, S1, C 073117	Total/NA	Solid	9010C	
180-68756-6	W1-b, S2, C 073117	Total/NA	Solid	9010C	
180-68756-9	W1-b, S3, C 073117	Total/NA	Solid	9010C	
180-68756-12	W1-b, S4, C 073117	Total/NA	Solid	9010C	
MB 180-218907/4-A	Method Blank	Total/NA	Solid	9010C	
HLCS 180-218907/2-A	Lab Control Sample	Total/NA	Solid	9010C	
LCS 180-218907/3-A	Lab Control Sample	Total/NA	Solid	9010C	
LLCS 180-218907/1-A	Lab Control Sample	Total/NA	Solid	9010C	

Analysis Batch: 219021

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68756-3	W1-b, S1, C 073117	Total/NA	Solid	9014	218907
180-68756-6	W1-b, S2, C 073117	Total/NA	Solid	9014	218907
180-68756-9	W1-b, S3, C 073117	Total/NA	Solid	9014	218907
180-68756-12	W1-b, S4, C 073117	Total/NA	Solid	9014	218907
MB 180-218907/4-A	Method Blank	Total/NA	Solid	9014	218907
HLCS 180-218907/2-A	Lab Control Sample	Total/NA	Solid	9014	218907
LCS 180-218907/3-A	Lab Control Sample	Total/NA	Solid	9014	218907
LLCS 180-218907/1-A	Lab Control Sample	Total/NA	Solid	9014	218907

TestAmerica Pittsburgh
301 Alpha Drive RIDC Park
Pittsburgh, PA 15238
Phone (412) 963-7058 Fax (412) 963-2468

Chain of Custody Record

180-68756 Chain of Custody

America
R IN ENVIRONMENTAL TESTING

4-8381.1

Client Information	Sampler: Ellen Buelow	Lab PM: Dunlap, David A	
Client Contact: Ashwin Ranna; Aron Krasnopoler	Phone: 412-552-4758	E-Mail: david.dunlap@testamericainc.com	
Company: Geosyntec Consultants, Inc.			Job #:
Address: Penn Center West One, Suite 402 1 Penn Center West Drive	Due Date Requested:		
City: Pittsburgh	TAT Requested (days): 1 DAY TAT		
State, Zip: PA, 15276			
Phone:	PO #: MN0832B		
Email: aranna@geosyntec.com; Akrasnopoler@geosyntec.com	WO #:		
Project Name: Former Sperry Remington Site - North IRM	Project #: 18013464		
Site:	SSOW#:		

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

RUSH

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - VOA-Select List	6010C, 7471B, 9014 - Select ICP Metals, Mercury, Cyanide	8082A, 8270D, PCBs, Select BNA	8260C - VOA-Select List (Trip Blanks only)	Total Number of containers	Special Instructions/Note:
Preservation Code:							N	N	N	A		
W1-b, S1, A 073117	073117	9:05	G	Solid	N	N	X				4	
W1-b, S1, B 073117	073117	9:15	G	Solid	N	N	X				4	
W1-b, S1, C 073117	073117	9:25	C	Solid	N	N		X	X		2	
W1-b, S2, A 073117	07.31.17	9:50	G	Solid	N	N	X				4	
W1-b, S2, B 073117	07.31.17	9:55	G	Solid	N	N	X				4	
W1-b, S2, C 073117	07 31.17	10:05	C	Solid	N	N		X	X		2	
W1-b, S3, A 073117	07.31.17	10:40	G	Solid	N	N	X				4	
W1-b, S3, B 073117	07.31.17	10:50	G	Solid	N	N	X				4	
W1-b, S3, C 073117	07.31.17	10:55	C	Solid	N	N		X	X		2	
W1-b, S4 A 073117	07.31.17	11:00	G	Solid	N	N	X				4	
W1-b, S4, B 073117	07.31.17	11:10	G	Solid	N	N	X				4	

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	[signature]	07/31/17 18:45	Geosyntec	[signature]	8-1-17	TDP
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 8:40	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

TestAmerica Pittsburgh
301 Alpha Drive RIDC Park
Pittsburgh, PA 15238
Phone (412) 963-7058 Fax (412) 963-2468

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Ellen Buelow	Lab PM: Dunlap, David A	Carrier Tracking No(s):	COC No: 180-38494-8381.1
Client Contact: Ashwin Ranna; Aron Krasnopoler	Phone: 412-552-4758	E-Mail: david.dunlap@testamericainc.com		Page: Page of
Company: Geosyntec Consultants, Inc.				Job #:
Address: Penn Center West One, Suite 402 1 Penn Center West Drive	Due Date Requested:			
City: Pittsburgh	TAT Requested (days): 1 day TAT			
State, Zip: PA, 15276				
Phone:	PO #: MN0832B			
Email: aranna@geosyntec.com; Akrasnopoler@geosyntec.com	WO #:			
Project Name: Former Sperry Remington Site - North IRM	Project #: 18013464			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - VOA-Select List	6010C, 7471B, 9014 - Select ICP Metals, Mercury, Cyanide	8082A, 8270D, PCBs, Select BNA	8260C - VOA-Select List (Trip Blanks only)	TCLP RCRA METALS	TCLP SEMI VOA	TCLP VOC	PCB 8082A	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	A						
WI-b, S4, C 073117	07.31.17	11:15	C	Solid	N	N		X	X						2	
~~WI-5~~ WB4-5, S1, A 073117	07.31.17	15:55	G	Solid	N	N							X		2	
WB4-5, S1, C 073117	07.31.17	16:00	C	Solid	N	N					X	X		X	3	
WB4-5, S2, A 073117	07.31.17	16:30	G	Solid	N	N							X		2	
WB4-5, S2, C 073117	073117	17:00	C	Solid	N	N					X	X		X	3	
TRIP BLANK #1	073117	—	—	~~Solid~~ W	N	N				X					2	
				Solid												
				Solid												
				Solid												
DUP 20	07.31.17	~~[redacted]~~	G	Solid	N	N	X								4	
DUP 21	07.31.17	—	G	Solid	N	N							X		2	

RUSH

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	[signature]	07/31/17 18:45	Geosyntec	[signature] Watson	8-1-17 8:40	TAT
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

8/4/2017

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 180-68756-1

Login Number: 68756
List Number: 1
Creator: Watson, Debbie

List Source: TestAmerica Pittsburgh

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	False	trip blank
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

TestAmerica Job ID: 180-68814-2
Client Project/Site: Former Sperry Remington Site - North IRM

For:
Geosyntec Consultants, Inc.
10211 Wincopin Circle
4'th Floor
Columbia, Maryland 21044

Attn: Mr. Aron Krasnopoler

Authorized for release by:
8/10/2017 5:13:42 PM

David Dunlap, Senior Project Manager
(412)963-2432
david.dunlap@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68814-2

Job ID: 180-68814-2

Laboratory: TestAmerica Pittsburgh

Narrative

Job Narrative
180-68814-2

Receipt
The samples were received on 8/2/2017 8:45 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.7° C.

GC/MS VOA
Method(s) 8260C: The continuing calibration verification (CCV) analyzed in batch 180-218968 was below criteria for the following analyte: 2-butanone (MEK). A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte is considered estimated.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method(s) 8270D LL: The following sample was diluted due to the nature of the sample matrix: WB2-3, S2, C 08.01.17 (180-68814-16). Elevated reporting limits (RLs) are provided.

Method(s) 8270D LL: The continuing calibration verification (CCV) analyzed in 180-219126 was above criteria for the following analytes: 1,4-dioxane and pyridine. As the CCV was high and these analytes were not detected in the associated samples, the results were reported.

Method(s) 8270D LL: The continuing calibration verification (CCV) analyzed in 180-219211 was above criteria for the following analytes: 1,4-dioxane, hexachlorobutadiene, and pyridine. As the CCV was high and these analytes were not detected in the associated samples, the results were reported.

Method(s) 8270D LL: The matrix spike/matrix spike duplicate (MS/MSD) of sample WB2-3, S1, C 08.01.17 (180-68814-13) had several recoveries and RPDs between the spikes outside of the above the control limits. The recoveries of the laboratory control sample (LCS) were within the control limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
Method(s) 8082A: The continuing calibration verification (CCV) analyzed in batch 180-219079 was below criteria for arcolor 1016 (CCV 180-219079/26) on column RTX-CLP2. All results in the associated samples were reported from column RTX-CLP1, which met criteria. The % difference between the sample results on both columns was <40%.

Method(s) 8082A: Sample WB2-3, S1, C 08.01.17 (180-68814-13) exhibited a slight retention time shift for the internal standards, surrogates, and aroclor peaks. As the patterns for the aroclors were clearly present, the results were reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
Method(s) 6010C: The low level continuing calibration verification (CCVL 180-219329/58) recovered above the control limit for selenium (149%, with limits of 70%-130%). As the CCVL was high and the associated samples did not have selenium detected, the results were reported.

Method(s) 7471B: The matrix spike (MS) recovery of sample WB2-3, S1, C 08.01.17 (180-68814-13) was above the control limits for mercury. The RPD between the spikes and the recoveries of the matrix spike duplicate (MSD) and laboratory control sample (LCS) were within the control limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

Job ID: 180-68814-2 (Continued)

Laboratory: TestAmerica Pittsburgh (Continued)

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
E	Result exceeded calibration range.

GC Semi VOA

Qualifier	Qualifier Description
*	ISTD response or retention time outside acceptable limits

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
F1	MS and/or MSD Recovery is outside acceptance limits.

General Chemistry

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc. TestAmerica Job ID: 180-68814-2
Project/Site: Former Sperry Remington Site - North IRM

Laboratory: TestAmerica Pittsburgh

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	11182	03-31-18

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
2540G		Solid	Percent Moisture
2540G		Solid	Percent Solids
8270D LL	3541	Solid	1,4-Dioxane

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68814-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-68814-11	WB2-3, S1, A 08.01.17	Solid	08/01/17 15:45	08/02/17 08:45
180-68814-12	WB2-3, S1, B 08.01.17	Solid	08/01/17 15:55	08/02/17 08:45
180-68814-13	WB2-3, S1, C 08.01.17	Solid	08/01/17 16:05	08/02/17 08:45
180-68814-14	WB2-3, S2, A 08.01.17	Solid	08/01/17 16:40	08/02/17 08:45
180-68814-15	WB2-3, S2, B 08.01.17	Solid	08/01/17 16:50	08/02/17 08:45
180-68814-16	WB2-3, S2, C 08.01.17	Solid	08/01/17 16:55	08/02/17 08:45
180-68814-17	TRIP BLANK #1	Water	08/01/17 00:00	08/02/17 08:45

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68814-2

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds (GC/MS)	SW846	TAL PIT
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL PIT
8270D LL	Semivolatile Organic Compounds by GC/MS - Low Level	SW846	TAL PIT
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL PIT
6010C	Metals (ICP)	SW846	TAL PIT
7471B	Mercury (CVAA)	SW846	TAL PIT
2540G	SM 2540G	SM22	TAL PIT
9014	Cyanide	SW846	TAL PIT

Protocol References:

SM22 = SM22

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68814-2

Client Sample ID: WB2-3, S1, A 08.01.17
Date Collected: 08/01/17 15:45
Date Received: 08/02/17 08:45

Lab Sample ID: 180-68814-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218909	08/02/17 14:18	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: WB2-3, S1, A 08.01.17
Date Collected: 08/01/17 15:45
Date Received: 08/02/17 08:45

Lab Sample ID: 180-68814-11
Matrix: Solid
Percent Solids: 89.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.9373 g	5 mL	218980	08/03/17 06:00	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	218968	08/03/17 14:00	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: WB2-3, S1, B 08.01.17
Date Collected: 08/01/17 15:55
Date Received: 08/02/17 08:45

Lab Sample ID: 180-68814-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218909	08/02/17 14:18	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: WB2-3, S1, B 08.01.17
Date Collected: 08/01/17 15:55
Date Received: 08/02/17 08:45

Lab Sample ID: 180-68814-12
Matrix: Solid
Percent Solids: 89.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.867 g	5 mL	218980	08/03/17 06:00	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	218968	08/03/17 14:22	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: WB2-3, S1, C 08.01.17
Date Collected: 08/01/17 16:05
Date Received: 08/02/17 08:45

Lab Sample ID: 180-68814-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218909	08/02/17 14:18	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: WB2-3, S1, C 08.01.17
Date Collected: 08/01/17 16:05
Date Received: 08/02/17 08:45

Lab Sample ID: 180-68814-13
Matrix: Solid
Percent Solids: 88.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.2 g	0.5 mL	219075	08/04/17 04:25	BAP	TAL PIT

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68814-2

Client Sample ID: WB2-3, S1, C 08.01.17

Lab Sample ID: 180-68814-13
Date Collected: 08/01/17 16:05
Matrix: Solid
Date Received: 08/02/17 08:45
Percent Solids: 88.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8270D LL		1	1 mL	1 mL	219126	08/04/17 18:39	DLF	TAL PIT
	Instrument ID: CH71									
Total/NA	Prep	3541			15.2 g	20.0 mL	219077	08/04/17 04:29	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	219144	08/04/17 11:19	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	219145	08/04/17 11:21	JMO	TAL PIT
Total/NA	Analysis	8082A		1	1 mL	1.0 mL	219079	08/05/17 06:28	JMO	TAL PIT
	Instrument ID: CHGC8									
Total/NA	Prep	3050B			1.03 g	100 mL	218989	08/03/17 09:17	CRM	TAL PIT
Total/NA	Analysis	6010C		1			219329	08/07/17 09:10	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.65 g	100 mL	219480	08/08/17 17:30	RJR	TAL PIT
Total/NA	Analysis	7471B		1			219600	08/09/17 11:24	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.02 g	50 mL	219313	08/07/17 11:25	JAS	TAL PIT
Total/NA	Analysis	9014		1			219406	08/07/17 15:33	JAS	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: WB2-3, S2, A 08.01.17

Lab Sample ID: 180-68814-14
Date Collected: 08/01/17 16:40
Matrix: Solid
Date Received: 08/02/17 08:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218909	08/02/17 14:18	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: WB2-3, S2, A 08.01.17

Lab Sample ID: 180-68814-14
Date Collected: 08/01/17 16:40
Matrix: Solid
Date Received: 08/02/17 08:45
Percent Solids: 90.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.8827 g	5 mL	218980	08/03/17 06:00	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	218968	08/03/17 14:46	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: WB2-3, S2, B 08.01.17

Lab Sample ID: 180-68814-15
Date Collected: 08/01/17 16:50
Matrix: Solid
Date Received: 08/02/17 08:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218909	08/02/17 14:18	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68814-2

Client Sample ID: WB2-3, S2, B 08.01.17

Lab Sample ID: 180-68814-15
Date Collected: 08/01/17 16:50
Matrix: Solid
Date Received: 08/02/17 08:45
Percent Solids: 89.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.5425 g	5 mL	218980	08/03/17 06:00	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	218968	08/03/17 15:08	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: WB2-3, S2, C 08.01.17

Lab Sample ID: 180-68814-16
Date Collected: 08/01/17 16:55
Matrix: Solid
Date Received: 08/02/17 08:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			218909	08/02/17 14:18	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: WB2-3, S2, C 08.01.17

Lab Sample ID: 180-68814-16
Date Collected: 08/01/17 16:55
Matrix: Solid
Date Received: 08/02/17 08:45
Percent Solids: 90.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.1 g	0.5 mL	219075	08/04/17 04:25	BAP	TAL PIT
Total/NA	Analysis	8270D LL		2	1 mL	1 mL	219211	08/05/17 17:21	DLF	TAL PIT
	Instrument ID: CH71									
Total/NA	Prep	3541			15.1 g	20.0 mL	219077	08/04/17 04:29	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	219144	08/04/17 11:19	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	219145	08/04/17 11:21	JMO	TAL PIT
Total/NA	Analysis	8082A		1			219079	08/05/17 06:48	JMO	TAL PIT
	Instrument ID: CHGC8									
Total/NA	Prep	3050B			0.98 g	100 mL	218989	08/03/17 09:17	CRM	TAL PIT
Total/NA	Analysis	6010C		1			219329	08/07/17 09:15	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.57 g	100 mL	219480	08/08/17 17:30	RJR	TAL PIT
Total/NA	Analysis	7471B		1			219600	08/09/17 11:30	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.04 g	50 mL	219313	08/07/17 11:25	JAS	TAL PIT
Total/NA	Analysis	9014		1			219406	08/07/17 15:38	JAS	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: TRIP BLANK #1

Lab Sample ID: 180-68814-17
Date Collected: 08/01/17 00:00
Matrix: Water
Date Received: 08/02/17 08:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	218943	08/03/17 09:32	FBB	TAL PIT
	Instrument ID: CHHP5									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68814-2

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Analyst References:

Lab: TAL PIT

Batch Type: Cleanup

JMO = John Oravec

Batch Type: Prep

BAP = Brian Pino

CRM = Caitlin McEvoy

JAS = Joshua Schmidt

KLG = Kathy Gordon

RJR = Ron Rosenbaum

Batch Type: Analysis

DLF = Donald Ferguson

FBB = Frank Bungard

JAS = Joshua Schmidt

JMO = John Oravec

JTL = Justin Landry

KLG = Kathy Gordon

RJG = Rob Good

RJR = Ron Rosenbaum

Client Sample ID: WB2-3, S1, A 08.01.17

Lab Sample ID: 180-68814-11

Date Collected: 08/01/17 15:45
Matrix: Solid
Date Received: 08/02/17 08:45
Percent Solids: 89.1

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.019	0.0030	mg/Kg	☼	08/03/17 06:00	08/03/17 14:00	1
Benzene	ND		0.0047	0.0019	mg/Kg	☼	08/03/17 06:00	08/03/17 14:00	1
2-Butanone (MEK)	ND		0.0047	0.0027	mg/Kg	☼	08/03/17 06:00	08/03/17 14:00	1
Carbon tetrachloride	ND		0.0047	0.0031	mg/Kg	☼	08/03/17 06:00	08/03/17 14:00	1
Chlorobenzene	ND		0.0047	0.0015	mg/Kg	☼	08/03/17 06:00	08/03/17 14:00	1
Chloroform	ND		0.0047	0.0020	mg/Kg	☼	08/03/17 06:00	08/03/17 14:00	1
cis-1,2-Dichloroethene	ND		0.0047	0.0015	mg/Kg	☼	08/03/17 06:00	08/03/17 14:00	1
1,2-Dichlorobenzene	ND		0.0047	0.0038	mg/Kg	☼	08/03/17 06:00	08/03/17 14:00	1
1,3-Dichlorobenzene	ND		0.0047	0.0015	mg/Kg	☼	08/03/17 06:00	08/03/17 14:00	1
1,4-Dichlorobenzene	ND		0.0047	0.00096	mg/Kg	☼	08/03/17 06:00	08/03/17 14:00	1
1,1-Dichloroethane	ND		0.0047	0.0017	mg/Kg	☼	08/03/17 06:00	08/03/17 14:00	1
1,2-Dichloroethane	ND		0.0047	0.0014	mg/Kg	☼	08/03/17 06:00	08/03/17 14:00	1
1,1-Dichloroethene	ND		0.0047	0.0027	mg/Kg	☼	08/03/17 06:00	08/03/17 14:00	1
Ethylbenzene	ND		0.0047	0.0020	mg/Kg	☼	08/03/17 06:00	08/03/17 14:00	1
Methylene Chloride	ND		0.0047	0.0022	mg/Kg	☼	08/03/17 06:00	08/03/17 14:00	1
Methyl tert-butyl ether	ND		0.0047	0.0035	mg/Kg	☼	08/03/17 06:00	08/03/17 14:00	1
n-Butylbenzene	ND		0.0047	0.0036	mg/Kg	☼	08/03/17 06:00	08/03/17 14:00	1
N-Propylbenzene	ND		0.0047	0.0020	mg/Kg	☼	08/03/17 06:00	08/03/17 14:00	1
sec-Butylbenzene	ND		0.0047	0.0023	mg/Kg	☼	08/03/17 06:00	08/03/17 14:00	1
tert-Butylbenzene	ND		0.0047	0.0017	mg/Kg	☼	08/03/17 06:00	08/03/17 14:00	1
Tetrachloroethene	ND		0.0047	0.0019	mg/Kg	☼	08/03/17 06:00	08/03/17 14:00	1
Toluene	ND		0.0047	0.0016	mg/Kg	☼	08/03/17 06:00	08/03/17 14:00	1
trans-1,2-Dichloroethene	ND		0.0047	0.0024	mg/Kg	☼	08/03/17 06:00	08/03/17 14:00	1
1,1,1-Trichloroethane	ND		0.0047	0.0024	mg/Kg	☼	08/03/17 06:00	08/03/17 14:00	1
Trichloroethene	ND		0.0047	0.0014	mg/Kg	☼	08/03/17 06:00	08/03/17 14:00	1
1,2,4-Trimethylbenzene	ND		0.0047	0.0013	mg/Kg	☼	08/03/17 06:00	08/03/17 14:00	1
1,3,5-Trimethylbenzene	ND		0.0047	0.0016	mg/Kg	☼	08/03/17 06:00	08/03/17 14:00	1
Vinyl chloride	ND		0.0047	0.0035	mg/Kg	☼	08/03/17 06:00	08/03/17 14:00	1
Xylenes, Total	ND		0.0095	0.0041	mg/Kg	☼	08/03/17 06:00	08/03/17 14:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*63 - 120*	*08/03/17 06:00*	*08/03/17 14:00*	*1*
Dibromofluoromethane (Surr)	*98*		*68 - 121*	*08/03/17 06:00*	*08/03/17 14:00*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*52 - 124*	*08/03/17 06:00*	*08/03/17 14:00*	*1*
Toluene-d8 (Surr)	*107*		*72 - 127*	*08/03/17 06:00*	*08/03/17 14:00*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**10.9**		0.1	0.1	%			08/02/17 14:18	1
Percent Solids	**89.1**		0.1	0.1	%			08/02/17 14:18	1

Client Sample ID: WB2-3, S1, B 08.01.17

Lab Sample ID: 180-68814-12

Date Collected: 08/01/17 15:55
Matrix: Solid
Date Received: 08/02/17 08:45
Percent Solids: 89.4

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.019	0.0030	mg/Kg	☼	08/03/17 06:00	08/03/17 14:22	1
Benzene	ND		0.0048	0.0019	mg/Kg	☼	08/03/17 06:00	08/03/17 14:22	1
2-Butanone (MEK)	ND		0.0048	0.0028	mg/Kg	☼	08/03/17 06:00	08/03/17 14:22	1

Client Sample ID: WB2-3, S1, B 08.01.17 — Lab Sample ID: 180-68814-12

Date Collected: 08/01/17 15:55 — **Matrix: Solid**
Date Received: 08/02/17 08:45 — **Percent Solids: 89.4**

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	ND		0.0048	0.0032	mg/Kg	☼	08/03/17 06:00	08/03/17 14:22	1
Chlorobenzene	ND		0.0048	0.0015	mg/Kg	☼	08/03/17 06:00	08/03/17 14:22	1
Chloroform	ND		0.0048	0.0020	mg/Kg	☼	08/03/17 06:00	08/03/17 14:22	1
cis-1,2-Dichloroethene	ND		0.0048	0.0015	mg/Kg	☼	08/03/17 06:00	08/03/17 14:22	1
1,2-Dichlorobenzene	ND		0.0048	0.0038	mg/Kg	☼	08/03/17 06:00	08/03/17 14:22	1
1,3-Dichlorobenzene	ND		0.0048	0.0015	mg/Kg	☼	08/03/17 06:00	08/03/17 14:22	1
1,4-Dichlorobenzene	ND		0.0048	0.00097	mg/Kg	☼	08/03/17 06:00	08/03/17 14:22	1
1,1-Dichloroethane	ND		0.0048	0.0017	mg/Kg	☼	08/03/17 06:00	08/03/17 14:22	1
1,2-Dichloroethane	ND		0.0048	0.0014	mg/Kg	☼	08/03/17 06:00	08/03/17 14:22	1
1,1-Dichloroethene	ND		0.0048	0.0027	mg/Kg	☼	08/03/17 06:00	08/03/17 14:22	1
Ethylbenzene	ND		0.0048	0.0021	mg/Kg	☼	08/03/17 06:00	08/03/17 14:22	1
Methylene Chloride	ND		0.0048	0.0022	mg/Kg	☼	08/03/17 06:00	08/03/17 14:22	1
Methyl tert-butyl ether	ND		0.0048	0.0035	mg/Kg	☼	08/03/17 06:00	08/03/17 14:22	1
n-Butylbenzene	ND		0.0048	0.0036	mg/Kg	☼	08/03/17 06:00	08/03/17 14:22	1
N-Propylbenzene	ND		0.0048	0.0020	mg/Kg	☼	08/03/17 06:00	08/03/17 14:22	1
sec-Butylbenzene	ND		0.0048	0.0023	mg/Kg	☼	08/03/17 06:00	08/03/17 14:22	1
tert-Butylbenzene	ND		0.0048	0.0017	mg/Kg	☼	08/03/17 06:00	08/03/17 14:22	1
Tetrachloroethene	ND		0.0048	0.0019	mg/Kg	☼	08/03/17 06:00	08/03/17 14:22	1
Toluene	ND		0.0048	0.0016	mg/Kg	☼	08/03/17 06:00	08/03/17 14:22	1
trans-1,2-Dichloroethene	ND		0.0048	0.0024	mg/Kg	☼	08/03/17 06:00	08/03/17 14:22	1
1,1,1-Trichloroethane	ND		0.0048	0.0024	mg/Kg	☼	08/03/17 06:00	08/03/17 14:22	1
Trichloroethene	ND		0.0048	0.0014	mg/Kg	☼	08/03/17 06:00	08/03/17 14:22	1
1,2,4-Trimethylbenzene	ND		0.0048	0.0013	mg/Kg	☼	08/03/17 06:00	08/03/17 14:22	1
1,3,5-Trimethylbenzene	ND		0.0048	0.0016	mg/Kg	☼	08/03/17 06:00	08/03/17 14:22	1
Vinyl chloride	ND		0.0048	0.0035	mg/Kg	☼	08/03/17 06:00	08/03/17 14:22	1
Xylenes, Total	ND		0.0095	0.0041	mg/Kg	☼	08/03/17 06:00	08/03/17 14:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*63 - 120*	*08/03/17 06:00*	*08/03/17 14:22*	*1*
Dibromofluoromethane (Surr)	*97*		*68 - 121*	*08/03/17 06:00*	*08/03/17 14:22*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*52 - 124*	*08/03/17 06:00*	*08/03/17 14:22*	*1*
Toluene-d8 (Surr)	*107*		*72 - 127*	*08/03/17 06:00*	*08/03/17 14:22*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**10.6**		0.1	0.1	%			08/02/17 14:18	1
Percent Solids	**89.4**		0.1	0.1	%			08/02/17 14:18	1

Client Sample ID: WB2-3, S1, C 08.01.17 — Lab Sample ID: 180-68814-13

Date Collected: 08/01/17 16:05 — **Matrix: Solid**
Date Received: 08/02/17 08:45 — **Percent Solids: 88.6**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.018**		0.0075	0.0025	mg/Kg	☼	08/04/17 04:25	08/04/17 18:39	1
Acenaphthylene	**0.082**		0.0075	0.0025	mg/Kg	☼	08/04/17 04:25	08/04/17 18:39	1
Anthracene	**0.13**	**F2 F1**	0.0075	0.0027	mg/Kg	☼	08/04/17 04:25	08/04/17 18:39	1
Benzo[a]anthracene	**0.38**	**F2 F1**	0.0075	0.0029	mg/Kg	☼	08/04/17 04:25	08/04/17 18:39	1
Benzo[a]pyrene	**0.38**	**F2 F1**	0.0075	0.0031	mg/Kg	☼	08/04/17 04:25	08/04/17 18:39	1
Benzo[b]fluoranthene	**0.52**	**F2 F1**	0.0075	0.0032	mg/Kg	☼	08/04/17 04:25	08/04/17 18:39	1

Client Sample ID: WB2-3, S1, C 08.01.17 **Lab Sample ID: 180-68814-13**
Date Collected: 08/01/17 16:05 **Matrix: Solid**
Date Received: 08/02/17 08:45 **Percent Solids: 88.6**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	**0.34**	**F2 F1**	0.0075	0.0032	mg/Kg	☼	08/04/17 04:25	08/04/17 18:39	1
Benzo[k]fluoranthene	**0.16**	**F2**	0.0075	0.0026	mg/Kg	☼	08/04/17 04:25	08/04/17 18:39	1
Chrysene	**0.43**	**F2 F1**	0.0075	0.0029	mg/Kg	☼	08/04/17 04:25	08/04/17 18:39	1
Dibenz(a,h)anthracene	**0.089**		0.0075	0.0031	mg/Kg	☼	08/04/17 04:25	08/04/17 18:39	1
Dibenzofuran	**0.022**	**J**	0.037	0.0030	mg/Kg	☼	08/04/17 04:25	08/04/17 18:39	1
2,4-Dinitrotoluene	ND		37	4.9	ug/Kg	☼	08/04/17 04:25	08/04/17 18:39	1
1,4-Dioxane	ND		0.074	0.0056	mg/Kg	☼	08/04/17 04:25	08/04/17 18:39	1
Fluoranthene	**0.63**	**F2 F1**	0.0075	0.0029	mg/Kg	☼	08/04/17 04:25	08/04/17 18:39	1
Fluorene	**0.021**		0.0075	0.0026	mg/Kg	☼	08/04/17 04:25	08/04/17 18:39	1
Hexachlorobenzene	ND		0.0075	0.0030	mg/Kg	☼	08/04/17 04:25	08/04/17 18:39	1
Hexachlorobutadiene	ND		7.5	2.3	ug/Kg	☼	08/04/17 04:25	08/04/17 18:39	1
Hexachloroethane	ND		37	2.7	ug/Kg	☼	08/04/17 04:25	08/04/17 18:39	1
Indeno[1,2,3-cd]pyrene	**0.31**	**F2 F1**	0.0075	0.0029	mg/Kg	☼	08/04/17 04:25	08/04/17 18:39	1
2-Methylphenol	ND		0.037	0.0033	mg/Kg	☼	08/04/17 04:25	08/04/17 18:39	1
Methylphenol, 3 & 4	ND		0.037	0.0033	mg/Kg	☼	08/04/17 04:25	08/04/17 18:39	1
Naphthalene	**0.041**		0.0075	0.0027	mg/Kg	☼	08/04/17 04:25	08/04/17 18:39	1
Nitrobenzene	ND		74	2.8	ug/Kg	☼	08/04/17 04:25	08/04/17 18:39	1
Pentachlorophenol	ND		0.19	0.070	mg/Kg	☼	08/04/17 04:25	08/04/17 18:39	1
Phenanthrene	**0.33**	**F2 F1**	0.0075	0.0031	mg/Kg	☼	08/04/17 04:25	08/04/17 18:39	1
Phenol	ND		0.037	0.0050	mg/Kg	☼	08/04/17 04:25	08/04/17 18:39	1
Pyrene	**0.57**	**F2 F1**	0.0075	0.0033	mg/Kg	☼	08/04/17 04:25	08/04/17 18:39	1
Pyridine	ND	F1	37	3.6	ug/Kg	☼	08/04/17 04:25	08/04/17 18:39	1
2,4,5-Trichlorophenol	ND		37	3.5	ug/Kg	☼	08/04/17 04:25	08/04/17 18:39	1
2,4,6-Trichlorophenol	ND		37	3.3	ug/Kg	☼	08/04/17 04:25	08/04/17 18:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*83*		*42 - 100*	*08/04/17 04:25*	*08/04/17 18:39*	*1*
2-Fluorophenol (Surr)	*64*		*21 - 107*	*08/04/17 04:25*	*08/04/17 18:39*	*1*
Nitrobenzene-d5 (Surr)	*76*		*35 - 109*	*08/04/17 04:25*	*08/04/17 18:39*	*1*
Phenol-d5 (Surr)	*56*		*29 - 105*	*08/04/17 04:25*	*08/04/17 18:39*	*1*
Terphenyl-d14 (Surr)	*70*		*36 - 113*	*08/04/17 04:25*	*08/04/17 18:39*	*1*
2,4,6-Tribromophenol (Surr)	*88*		*20 - 134*	*08/04/17 04:25*	*08/04/17 18:39*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND	*	0.019	0.0098	mg/Kg	☼	08/04/17 04:29	08/05/17 06:28	1
PCB-1221	ND	*	0.019	0.0096	mg/Kg	☼	08/04/17 04:29	08/05/17 06:28	1
PCB-1232	ND	*	0.019	0.0073	mg/Kg	☼	08/04/17 04:29	08/05/17 06:28	1
PCB-1242	ND	*	0.019	0.015	mg/Kg	☼	08/04/17 04:29	08/05/17 06:28	1
PCB-1248	**2.3**	*****	0.019	0.0089	mg/Kg	☼	08/04/17 04:29	08/05/17 06:28	1
PCB-1254	**1.4**	*****	0.019	0.0081	mg/Kg	☼	08/04/17 04:29	08/05/17 06:28	1
PCB-1260	**0.20**	*****	0.019	0.012	mg/Kg	☼	08/04/17 04:29	08/05/17 06:28	1
PCB-1262	ND	*	0.019	0.013	mg/Kg	☼	08/04/17 04:29	08/05/17 06:28	1
PCB-1268	ND	*	0.019	0.0057	mg/Kg	☼	08/04/17 04:29	08/05/17 06:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*80*	*	*23 - 150*	*08/04/17 04:29*	*08/05/17 06:28*	*1*
DCB Decachlorobiphenyl (Surr)	*85*	*	*23 - 150*	*08/04/17 04:29*	*08/05/17 06:28*	*1*
Tetrachloro-m-xylene (Surr)	*88*	*	*27 - 138*	*08/04/17 04:29*	*08/05/17 06:28*	*1*
Tetrachloro-m-xylene (Surr)	*80*	*	*27 - 138*	*08/04/17 04:29*	*08/05/17 06:28*	*1*

Client Sample ID: WB2-3, S1, C 08.01.17 — Lab Sample ID: 180-68814-13

Date Collected: 08/01/17 16:05 — **Matrix: Solid**
Date Received: 08/02/17 08:45 — **Percent Solids: 88.6**

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.8		1.1	0.48	mg/Kg	☼	08/03/17 09:17	08/07/17 09:10	1
Barium	86		22	5.9	mg/Kg	☼	08/03/17 09:17	08/07/17 09:10	1
Beryllium	0.40	J	0.44	0.11	mg/Kg	☼	08/03/17 09:17	08/07/17 09:10	1
Cadmium	0.16	J	0.55	0.12	mg/Kg	☼	08/03/17 09:17	08/07/17 09:10	1
Chromium	10		0.55	0.14	mg/Kg	☼	08/03/17 09:17	08/07/17 09:10	1
Copper	24		2.7	0.84	mg/Kg	☼	08/03/17 09:17	08/07/17 09:10	1
Lead	30		1.1	0.36	mg/Kg	☼	08/03/17 09:17	08/07/17 09:10	1
Manganese	460		1.6	0.44	mg/Kg	☼	08/03/17 09:17	08/07/17 09:10	1
Nickel	20		4.4	0.99	mg/Kg	☼	08/03/17 09:17	08/07/17 09:10	1
Selenium	ND	^	1.1	0.43	mg/Kg	☼	08/03/17 09:17	08/07/17 09:10	1
Silver	ND		0.55	0.18	mg/Kg	☼	08/03/17 09:17	08/07/17 09:10	1
Zinc	64		2.2	1.1	mg/Kg	☼	08/03/17 09:17	08/07/17 09:10	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.055	F1	0.034	0.0077	mg/Kg	☼	08/08/17 17:30	08/09/17 11:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	11.4		0.1	0.1	%			08/02/17 14:18	1
Percent Solids	88.6		0.1	0.1	%			08/02/17 14:18	1
Cyanide, Total	ND		0.55	0.17	mg/Kg	☼	08/07/17 11:25	08/07/17 15:33	1

Client Sample ID: WB2-3, S2, A 08.01.17 — Lab Sample ID: 180-68814-14

Date Collected: 08/01/17 16:40 — **Matrix: Solid**
Date Received: 08/02/17 08:45 — **Percent Solids: 90.6**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.019	0.0030	mg/Kg	☼	08/03/17 06:00	08/03/17 14:46	1
Benzene	ND		0.0047	0.0018	mg/Kg	☼	08/03/17 06:00	08/03/17 14:46	1
2-Butanone (MEK)	ND		0.0047	0.0027	mg/Kg	☼	08/03/17 06:00	08/03/17 14:46	1
Carbon tetrachloride	ND		0.0047	0.0031	mg/Kg	☼	08/03/17 06:00	08/03/17 14:46	1
Chlorobenzene	ND		0.0047	0.0015	mg/Kg	☼	08/03/17 06:00	08/03/17 14:46	1
Chloroform	ND		0.0047	0.0020	mg/Kg	☼	08/03/17 06:00	08/03/17 14:46	1
cis-1,2-Dichloroethene	ND		0.0047	0.0015	mg/Kg	☼	08/03/17 06:00	08/03/17 14:46	1
1,2-Dichlorobenzene	ND		0.0047	0.0038	mg/Kg	☼	08/03/17 06:00	08/03/17 14:46	1
1,3-Dichlorobenzene	ND		0.0047	0.0015	mg/Kg	☼	08/03/17 06:00	08/03/17 14:46	1
1,4-Dichlorobenzene	ND		0.0047	0.00096	mg/Kg	☼	08/03/17 06:00	08/03/17 14:46	1
1,1-Dichloroethane	ND		0.0047	0.0017	mg/Kg	☼	08/03/17 06:00	08/03/17 14:46	1
1,2-Dichloroethane	ND		0.0047	0.0014	mg/Kg	☼	08/03/17 06:00	08/03/17 14:46	1
1,1-Dichloroethene	ND		0.0047	0.0027	mg/Kg	☼	08/03/17 06:00	08/03/17 14:46	1
Ethylbenzene	ND		0.0047	0.0020	mg/Kg	☼	08/03/17 06:00	08/03/17 14:46	1
Methylene Chloride	ND		0.0047	0.0022	mg/Kg	☼	08/03/17 06:00	08/03/17 14:46	1
Methyl tert-butyl ether	ND		0.0047	0.0035	mg/Kg	☼	08/03/17 06:00	08/03/17 14:46	1
n-Butylbenzene	ND		0.0047	0.0036	mg/Kg	☼	08/03/17 06:00	08/03/17 14:46	1
N-Propylbenzene	ND		0.0047	0.0020	mg/Kg	☼	08/03/17 06:00	08/03/17 14:46	1
sec-Butylbenzene	ND		0.0047	0.0023	mg/Kg	☼	08/03/17 06:00	08/03/17 14:46	1
tert-Butylbenzene	ND		0.0047	0.0017	mg/Kg	☼	08/03/17 06:00	08/03/17 14:46	1
Tetrachloroethene	ND		0.0047	0.0019	mg/Kg	☼	08/03/17 06:00	08/03/17 14:46	1

Client Sample ID: WB2-3, S2, A 08.01.17 — Lab Sample ID: 180-68814-14

Date Collected: 08/01/17 16:40 — **Matrix: Solid**
Date Received: 08/02/17 08:45 — **Percent Solids: 90.6**

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		0.0047	0.0016	mg/Kg	☼	08/03/17 06:00	08/03/17 14:46	1
trans-1,2-Dichloroethene	ND		0.0047	0.0024	mg/Kg	☼	08/03/17 06:00	08/03/17 14:46	1
1,1,1-Trichloroethane	ND		0.0047	0.0024	mg/Kg	☼	08/03/17 06:00	08/03/17 14:46	1
Trichloroethene	ND		0.0047	0.0014	mg/Kg	☼	08/03/17 06:00	08/03/17 14:46	1
1,2,4-Trimethylbenzene	ND		0.0047	0.0013	mg/Kg	☼	08/03/17 06:00	08/03/17 14:46	1
1,3,5-Trimethylbenzene	ND		0.0047	0.0016	mg/Kg	☼	08/03/17 06:00	08/03/17 14:46	1
Vinyl chloride	ND		0.0047	0.0034	mg/Kg	☼	08/03/17 06:00	08/03/17 14:46	1
Xylenes, Total	ND		0.0094	0.0040	mg/Kg	☼	08/03/17 06:00	08/03/17 14:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*63 - 120*	*08/03/17 06:00*	*08/03/17 14:46*	*1*
Dibromofluoromethane (Surr)	*97*		*68 - 121*	*08/03/17 06:00*	*08/03/17 14:46*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*52 - 124*	*08/03/17 06:00*	*08/03/17 14:46*	*1*
Toluene-d8 (Surr)	*107*		*72 - 127*	*08/03/17 06:00*	*08/03/17 14:46*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.4**		0.1	0.1	%			08/02/17 14:18	1
Percent Solids	**90.6**		0.1	0.1	%			08/02/17 14:18	1

Client Sample ID: WB2-3, S2, B 08.01.17 — Lab Sample ID: 180-68814-15

Date Collected: 08/01/17 16:50 — **Matrix: Solid**
Date Received: 08/02/17 08:45 — **Percent Solids: 89.6**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.020	0.0032	mg/Kg	☼	08/03/17 06:00	08/03/17 15:08	1
Benzene	ND		0.0050	0.0020	mg/Kg	☼	08/03/17 06:00	08/03/17 15:08	1
2-Butanone (MEK)	ND		0.0050	0.0029	mg/Kg	☼	08/03/17 06:00	08/03/17 15:08	1
Carbon tetrachloride	ND		0.0050	0.0033	mg/Kg	☼	08/03/17 06:00	08/03/17 15:08	1
Chlorobenzene	ND		0.0050	0.0016	mg/Kg	☼	08/03/17 06:00	08/03/17 15:08	1
Chloroform	ND		0.0050	0.0021	mg/Kg	☼	08/03/17 06:00	08/03/17 15:08	1
cis-1,2-Dichloroethene	ND		0.0050	0.0016	mg/Kg	☼	08/03/17 06:00	08/03/17 15:08	1
1,2-Dichlorobenzene	ND		0.0050	0.0041	mg/Kg	☼	08/03/17 06:00	08/03/17 15:08	1
1,3-Dichlorobenzene	ND		0.0050	0.0016	mg/Kg	☼	08/03/17 06:00	08/03/17 15:08	1
1,4-Dichlorobenzene	ND		0.0050	0.0010	mg/Kg	☼	08/03/17 06:00	08/03/17 15:08	1
1,1-Dichloroethane	ND		0.0050	0.0018	mg/Kg	☼	08/03/17 06:00	08/03/17 15:08	1
1,2-Dichloroethane	ND		0.0050	0.0015	mg/Kg	☼	08/03/17 06:00	08/03/17 15:08	1
1,1-Dichloroethene	ND		0.0050	0.0029	mg/Kg	☼	08/03/17 06:00	08/03/17 15:08	1
Ethylbenzene	ND		0.0050	0.0022	mg/Kg	☼	08/03/17 06:00	08/03/17 15:08	1
Methylene Chloride	ND		0.0050	0.0024	mg/Kg	☼	08/03/17 06:00	08/03/17 15:08	1
Methyl tert-butyl ether	ND		0.0050	0.0037	mg/Kg	☼	08/03/17 06:00	08/03/17 15:08	1
n-Butylbenzene	ND		0.0050	0.0038	mg/Kg	☼	08/03/17 06:00	08/03/17 15:08	1
N-Propylbenzene	ND		0.0050	0.0021	mg/Kg	☼	08/03/17 06:00	08/03/17 15:08	1
sec-Butylbenzene	ND		0.0050	0.0025	mg/Kg	☼	08/03/17 06:00	08/03/17 15:08	1
tert-Butylbenzene	ND		0.0050	0.0018	mg/Kg	☼	08/03/17 06:00	08/03/17 15:08	1
Tetrachloroethene	ND		0.0050	0.0020	mg/Kg	☼	08/03/17 06:00	08/03/17 15:08	1
Toluene	ND		0.0050	0.0017	mg/Kg	☼	08/03/17 06:00	08/03/17 15:08	1
trans-1,2-Dichloroethene	ND		0.0050	0.0026	mg/Kg	☼	08/03/17 06:00	08/03/17 15:08	1
1,1,1-Trichloroethane	ND		0.0050	0.0025	mg/Kg	☼	08/03/17 06:00	08/03/17 15:08	1

Client Sample ID: WB2-3, S2, B 08.01.17 — Lab Sample ID: 180-68814-15

Date Collected: 08/01/17 16:50 — **Matrix: Solid**
Date Received: 08/02/17 08:45 — **Percent Solids: 89.6**

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	ND		0.0050	0.0015	mg/Kg	☼	08/03/17 06:00	08/03/17 15:08	1
1,2,4-Trimethylbenzene	ND		0.0050	0.0014	mg/Kg	☼	08/03/17 06:00	08/03/17 15:08	1
1,3,5-Trimethylbenzene	ND		0.0050	0.0017	mg/Kg	☼	08/03/17 06:00	08/03/17 15:08	1
Vinyl chloride	ND		0.0050	0.0037	mg/Kg	☼	08/03/17 06:00	08/03/17 15:08	1
Xylenes, Total	ND		0.010	0.0043	mg/Kg	☼	08/03/17 06:00	08/03/17 15:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*63 - 120*	*08/03/17 06:00*	*08/03/17 15:08*	*1*
Dibromofluoromethane (Surr)	*98*		*68 - 121*	*08/03/17 06:00*	*08/03/17 15:08*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*52 - 124*	*08/03/17 06:00*	*08/03/17 15:08*	*1*
Toluene-d8 (Surr)	*107*		*72 - 127*	*08/03/17 06:00*	*08/03/17 15:08*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**10.4**		0.1	0.1	%			08/02/17 14:18	1
Percent Solids	**89.6**		0.1	0.1	%			08/02/17 14:18	1

Client Sample ID: WB2-3, S2, C 08.01.17 — Lab Sample ID: 180-68814-16

Date Collected: 08/01/17 16:55 — **Matrix: Solid**
Date Received: 08/02/17 08:45 — **Percent Solids: 90.8**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.014**	**J**	0.015	0.0049	mg/Kg	☼	08/04/17 04:25	08/05/17 17:21	2
Acenaphthylene	**0.10**		0.015	0.0050	mg/Kg	☼	08/04/17 04:25	08/05/17 17:21	2
Anthracene	**0.10**		0.015	0.0054	mg/Kg	☼	08/04/17 04:25	08/05/17 17:21	2
Benzo[a]anthracene	**0.36**		0.015	0.0058	mg/Kg	☼	08/04/17 04:25	08/05/17 17:21	2
Benzo[a]pyrene	**0.41**		0.015	0.0060	mg/Kg	☼	08/04/17 04:25	08/05/17 17:21	2
Benzo[b]fluoranthene	**0.56**		0.015	0.0063	mg/Kg	☼	08/04/17 04:25	08/05/17 17:21	2
Benzo[g,h,i]perylene	**0.39**		0.015	0.0063	mg/Kg	☼	08/04/17 04:25	08/05/17 17:21	2
Benzo[k]fluoranthene	**0.18**		0.015	0.0050	mg/Kg	☼	08/04/17 04:25	08/05/17 17:21	2
Chrysene	**0.39**		0.015	0.0057	mg/Kg	☼	08/04/17 04:25	08/05/17 17:21	2
Dibenz(a,h)anthracene	**0.096**		0.015	0.0060	mg/Kg	☼	08/04/17 04:25	08/05/17 17:21	2
Dibenzofuran	**0.018**	**J**	0.072	0.0058	mg/Kg	☼	08/04/17 04:25	08/05/17 17:21	2
2,4-Dinitrotoluene	ND		72	9.7	ug/Kg	☼	08/04/17 04:25	08/05/17 17:21	2
1,4-Dioxane	ND		0.15	0.011	mg/Kg	☼	08/04/17 04:25	08/05/17 17:21	2
Fluoranthene	**0.54**		0.015	0.0058	mg/Kg	☼	08/04/17 04:25	08/05/17 17:21	2
Fluorene	**0.022**		0.015	0.0052	mg/Kg	☼	08/04/17 04:25	08/05/17 17:21	2
Hexachlorobenzene	ND		0.015	0.0059	mg/Kg	☼	08/04/17 04:25	08/05/17 17:21	2
Hexachlorobutadiene	ND		15	4.6	ug/Kg	☼	08/04/17 04:25	08/05/17 17:21	2
Hexachloroethane	ND		72	5.2	ug/Kg	☼	08/04/17 04:25	08/05/17 17:21	2
Indeno[1,2,3-cd]pyrene	**0.35**		0.015	0.0056	mg/Kg	☼	08/04/17 04:25	08/05/17 17:21	2
2-Methylphenol	ND		0.072	0.0064	mg/Kg	☼	08/04/17 04:25	08/05/17 17:21	2
Methylphenol, 3 & 4	ND		0.072	0.0065	mg/Kg	☼	08/04/17 04:25	08/05/17 17:21	2
Naphthalene	**0.059**		0.015	0.0052	mg/Kg	☼	08/04/17 04:25	08/05/17 17:21	2
Nitrobenzene	ND		150	5.6	ug/Kg	☼	08/04/17 04:25	08/05/17 17:21	2
Pentachlorophenol	ND		0.37	0.14	mg/Kg	☼	08/04/17 04:25	08/05/17 17:21	2
Phenanthrene	**0.19**		0.015	0.0061	mg/Kg	☼	08/04/17 04:25	08/05/17 17:21	2
Phenol	ND		0.072	0.0099	mg/Kg	☼	08/04/17 04:25	08/05/17 17:21	2
Pyrene	**0.46**		0.015	0.0065	mg/Kg	☼	08/04/17 04:25	08/05/17 17:21	2

Client Sample ID: WB2-3, S2, C 08.01.17 **Lab Sample ID: 180-68814-16**
Date Collected: 08/01/17 16:55 **Matrix: Solid**
Date Received: 08/02/17 08:45 **Percent Solids: 90.8**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyridine	ND		72	7.0	ug/Kg	☼	08/04/17 04:25	08/05/17 17:21	2
2,4,5-Trichlorophenol	ND		72	6.9	ug/Kg	☼	08/04/17 04:25	08/05/17 17:21	2
2,4,6-Trichlorophenol	ND		72	6.4	ug/Kg	☼	08/04/17 04:25	08/05/17 17:21	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*78*		*42 - 100*	*08/04/17 04:25*	*08/05/17 17:21*	*2*
2-Fluorophenol (Surr)	*59*		*21 - 107*	*08/04/17 04:25*	*08/05/17 17:21*	*2*
Nitrobenzene-d5 (Surr)	*74*		*35 - 109*	*08/04/17 04:25*	*08/05/17 17:21*	*2*
Phenol-d5 (Surr)	*53*		*29 - 105*	*08/04/17 04:25*	*08/05/17 17:21*	*2*
Terphenyl-d14 (Surr)	*68*		*36 - 113*	*08/04/17 04:25*	*08/05/17 17:21*	*2*
2,4,6-Tribromophenol (Surr)	*81*		*20 - 134*	*08/04/17 04:25*	*08/05/17 17:21*	*2*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.018	0.0097	mg/Kg	☼	08/04/17 04:29	08/05/17 06:48	1
PCB-1221	ND		0.018	0.0094	mg/Kg	☼	08/04/17 04:29	08/05/17 06:48	1
PCB-1232	ND		0.018	0.0072	mg/Kg	☼	08/04/17 04:29	08/05/17 06:48	1
PCB-1242	ND		0.018	0.014	mg/Kg	☼	08/04/17 04:29	08/05/17 06:48	1
PCB-1248	**2.3**		0.018	0.0087	mg/Kg	☼	08/04/17 04:29	08/05/17 06:48	1
PCB-1254	**1.1**		0.018	0.0080	mg/Kg	☼	08/04/17 04:29	08/05/17 06:48	1
PCB-1260	**0.32**		0.018	0.012	mg/Kg	☼	08/04/17 04:29	08/05/17 06:48	1
PCB-1262	ND		0.018	0.013	mg/Kg	☼	08/04/17 04:29	08/05/17 06:48	1
PCB-1268	ND		0.018	0.0056	mg/Kg	☼	08/04/17 04:29	08/05/17 06:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*82*		*23 - 150*	*08/04/17 04:29*	*08/05/17 06:48*	*1*
DCB Decachlorobiphenyl (Surr)	*85*		*23 - 150*	*08/04/17 04:29*	*08/05/17 06:48*	*1*
Tetrachloro-m-xylene (Surr)	*90*		*27 - 138*	*08/04/17 04:29*	*08/05/17 06:48*	*1*
Tetrachloro-m-xylene (Surr)	*77*		*27 - 138*	*08/04/17 04:29*	*08/05/17 06:48*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**5.2**		1.1	0.50	mg/Kg	☼	08/03/17 09:17	08/07/17 09:15	1
Barium	**95**		22	6.0	mg/Kg	☼	08/03/17 09:17	08/07/17 09:15	1
Beryllium	**0.30**	**J**	0.45	0.12	mg/Kg	☼	08/03/17 09:17	08/07/17 09:15	1
Cadmium	**0.16**	**J**	0.56	0.13	mg/Kg	☼	08/03/17 09:17	08/07/17 09:15	1
Chromium	**9.1**		0.56	0.15	mg/Kg	☼	08/03/17 09:17	08/07/17 09:15	1
Copper	**32**		2.8	0.86	mg/Kg	☼	08/03/17 09:17	08/07/17 09:15	1
Lead	**41**		1.1	0.37	mg/Kg	☼	08/03/17 09:17	08/07/17 09:15	1
Manganese	**350**		1.7	0.46	mg/Kg	☼	08/03/17 09:17	08/07/17 09:15	1
Nickel	**17**		4.5	1.0	mg/Kg	☼	08/03/17 09:17	08/07/17 09:15	1
Selenium	ND	^	1.1	0.45	mg/Kg	☼	08/03/17 09:17	08/07/17 09:15	1
Silver	ND		0.56	0.19	mg/Kg	☼	08/03/17 09:17	08/07/17 09:15	1
Zinc	**83**		2.2	1.1	mg/Kg	☼	08/03/17 09:17	08/07/17 09:15	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.042**		0.038	0.0086	mg/Kg	☼	08/08/17 17:30	08/09/17 11:30	1

Client Sample ID: WB2-3, S2, C 08.01.17 — Lab Sample ID: 180-68814-16

Date Collected: 08/01/17 16:55 — **Matrix: Solid**
Date Received: 08/02/17 08:45 — **Percent Solids: 90.8**

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.2		0.1	0.1	%			08/02/17 14:18	1
Percent Solids	90.8		0.1	0.1	%			08/02/17 14:18	1
Cyanide, Total	0.26	J	0.53	0.16	mg/Kg	☼	08/07/17 11:25	08/07/17 15:38	1

Client Sample ID: TRIP BLANK #1 — Lab Sample ID: 180-68814-17

Date Collected: 08/01/17 00:00 — **Matrix: Water**
Date Received: 08/02/17 08:45

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	4.6	J	5.0	3.1	ug/L			08/03/17 09:32	1
Benzene	ND		1.0	0.18	ug/L			08/03/17 09:32	1
2-Butanone (MEK)	ND		5.0	2.6	ug/L			08/03/17 09:32	1
Carbon tetrachloride	ND		1.0	0.56	ug/L			08/03/17 09:32	1
Chlorobenzene	ND		1.0	0.15	ug/L			08/03/17 09:32	1
Chloroform	ND		1.0	0.27	ug/L			08/03/17 09:32	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			08/03/17 09:32	1
1,2-Dichlorobenzene	ND		1.0	0.23	ug/L			08/03/17 09:32	1
1,3-Dichlorobenzene	ND		1.0	0.21	ug/L			08/03/17 09:32	1
1,4-Dichlorobenzene	ND		1.0	0.24	ug/L			08/03/17 09:32	1
1,1-Dichloroethane	ND		1.0	0.34	ug/L			08/03/17 09:32	1
1,2-Dichloroethane	ND		1.0	0.24	ug/L			08/03/17 09:32	1
1,1-Dichloroethene	ND		1.0	0.32	ug/L			08/03/17 09:32	1
Ethylbenzene	ND		1.0	0.25	ug/L			08/03/17 09:32	1
Methylene Chloride	ND		1.0	0.94	ug/L			08/03/17 09:32	1
Methyl tert-butyl ether	ND		1.0	0.20	ug/L			08/03/17 09:32	1
n-Butylbenzene	ND		1.0	0.22	ug/L			08/03/17 09:32	1
N-Propylbenzene	ND		1.0	0.20	ug/L			08/03/17 09:32	1
sec-Butylbenzene	ND		1.0	0.22	ug/L			08/03/17 09:32	1
tert-Butylbenzene	ND		1.0	0.17	ug/L			08/03/17 09:32	1
Tetrachloroethene	ND		1.0	0.24	ug/L			08/03/17 09:32	1
Toluene	ND		1.0	0.16	ug/L			08/03/17 09:32	1
trans-1,2-Dichloroethene	ND		1.0	0.20	ug/L			08/03/17 09:32	1
1,1,1-Trichloroethane	ND		1.0	0.27	ug/L			08/03/17 09:32	1
Trichloroethene	ND		1.0	0.20	ug/L			08/03/17 09:32	1
1,2,4-Trimethylbenzene	ND		1.0	0.18	ug/L			08/03/17 09:32	1
1,3,5-Trimethylbenzene	ND		1.0	0.17	ug/L			08/03/17 09:32	1
Vinyl chloride	ND		1.0	0.17	ug/L			08/03/17 09:32	1
Xylenes, Total	ND		2.0	0.27	ug/L			08/03/17 09:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*72 - 120*		*08/03/17 09:32*	*1*
Dibromofluoromethane (Surr)	*98*		*77 - 127*		*08/03/17 09:32*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*72 - 134*		*08/03/17 09:32*	*1*
Toluene-d8 (Surr)	*90*		*80 - 120*		*08/03/17 09:32*	*1*

Method: 8260C - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 180-218943/5
Matrix: Water
Analysis Batch: 218943

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		5.0	3.1	ug/L			08/03/17 05:08	1
Benzene	ND		1.0	0.18	ug/L			08/03/17 05:08	1
2-Butanone (MEK)	ND		5.0	2.6	ug/L			08/03/17 05:08	1
Carbon tetrachloride	ND		1.0	0.56	ug/L			08/03/17 05:08	1
Chlorobenzene	ND		1.0	0.15	ug/L			08/03/17 05:08	1
Chloroform	ND		1.0	0.27	ug/L			08/03/17 05:08	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			08/03/17 05:08	1
1,2-Dichlorobenzene	ND		1.0	0.23	ug/L			08/03/17 05:08	1
1,3-Dichlorobenzene	ND		1.0	0.21	ug/L			08/03/17 05:08	1
1,4-Dichlorobenzene	ND		1.0	0.24	ug/L			08/03/17 05:08	1
1,1-Dichloroethane	ND		1.0	0.34	ug/L			08/03/17 05:08	1
1,2-Dichloroethane	ND		1.0	0.24	ug/L			08/03/17 05:08	1
1,1-Dichloroethene	ND		1.0	0.32	ug/L			08/03/17 05:08	1
Ethylbenzene	ND		1.0	0.25	ug/L			08/03/17 05:08	1
Methylene Chloride	ND		1.0	0.94	ug/L			08/03/17 05:08	1
Methyl tert-butyl ether	ND		1.0	0.20	ug/L			08/03/17 05:08	1
n-Butylbenzene	ND		1.0	0.22	ug/L			08/03/17 05:08	1
N-Propylbenzene	ND		1.0	0.20	ug/L			08/03/17 05:08	1
sec-Butylbenzene	ND		1.0	0.22	ug/L			08/03/17 05:08	1
tert-Butylbenzene	ND		1.0	0.17	ug/L			08/03/17 05:08	1
Tetrachloroethene	ND		1.0	0.24	ug/L			08/03/17 05:08	1
Toluene	ND		1.0	0.16	ug/L			08/03/17 05:08	1
trans-1,2-Dichloroethene	ND		1.0	0.20	ug/L			08/03/17 05:08	1
1,1,1-Trichloroethane	ND		1.0	0.27	ug/L			08/03/17 05:08	1
Trichloroethene	ND		1.0	0.20	ug/L			08/03/17 05:08	1
1,2,4-Trimethylbenzene	ND		1.0	0.18	ug/L			08/03/17 05:08	1
1,3,5-Trimethylbenzene	ND		1.0	0.17	ug/L			08/03/17 05:08	1
Vinyl chloride	ND		1.0	0.17	ug/L			08/03/17 05:08	1
Xylenes, Total	ND		2.0	0.27	ug/L			08/03/17 05:08	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*72 - 120*		*08/03/17 05:08*	*1*
Dibromofluoromethane (Surr)	*96*		*77 - 127*		*08/03/17 05:08*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*72 - 134*		*08/03/17 05:08*	*1*
Toluene-d8 (Surr)	*90*		*80 - 120*		*08/03/17 05:08*	*1*

Lab Sample ID: LCS 180-218943/3
Matrix: Water
Analysis Batch: 218943

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	20.0	16.2		ug/L		81	10 - 150
Benzene	10.0	8.67		ug/L		87	80 - 121
2-Butanone (MEK)	20.0	17.2		ug/L		86	41 - 150
Carbon tetrachloride	10.0	9.62		ug/L		96	59 - 145
Chlorobenzene	10.0	9.05		ug/L		91	80 - 120
Chloroform	10.0	8.83		ug/L		88	78 - 122
cis-1,2-Dichloroethene	10.0	8.56		ug/L		86	80 - 120

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 180-218943/3
Matrix: Water
Analysis Batch: 218943

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichlorobenzene	10.0	8.46		ug/L		85	80 - 120
1,3-Dichlorobenzene	10.0	8.44		ug/L		84	80 - 120
1,4-Dichlorobenzene	10.0	8.66		ug/L		87	80 - 120
1,1-Dichloroethane	10.0	9.19		ug/L		92	76 - 126
1,2-Dichloroethane	10.0	9.34		ug/L		93	72 - 126
1,1-Dichloroethene	10.0	8.85		ug/L		88	71 - 122
Ethylbenzene	10.0	9.06		ug/L		91	80 - 123
Methylene Chloride	10.0	8.40		ug/L		84	71 - 129
Methyl tert-butyl ether	10.0	9.19		ug/L		92	68 - 124
n-Butylbenzene	10.0	9.18		ug/L		92	75 - 120
N-Propylbenzene	10.0	8.80		ug/L		88	78 - 121
sec-Butylbenzene	10.0	9.04		ug/L		90	80 - 121
tert-Butylbenzene	10.0	8.92		ug/L		89	79 - 120
Tetrachloroethene	10.0	9.04		ug/L		90	80 - 122
Toluene	10.0	9.23		ug/L		92	80 - 125
trans-1,2-Dichloroethene	10.0	8.89		ug/L		89	80 - 121
1,1,1-Trichloroethane	10.0	9.26		ug/L		93	57 - 128
Trichloroethene	10.0	8.74		ug/L		87	79 - 120
1,2,4-Trimethylbenzene	10.0	8.80		ug/L		88	80 - 120
1,3,5-Trimethylbenzene	10.0	8.98		ug/L		90	80 - 122
Vinyl chloride	10.0	9.45		ug/L		94	61 - 138
Xylenes, Total	20.0	17.8		ug/L		89	80 - 123

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*93*		*72 - 120*
Dibromofluoromethane (Surr)	*90*		*77 - 127*
1,2-Dichloroethane-d4 (Surr)	*94*		*72 - 134*
Toluene-d8 (Surr)	*97*		*80 - 120*

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 180-218968/9
Matrix: Solid
Analysis Batch: 218968

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.020	0.0032	mg/Kg			08/03/17 09:06	1
Benzene	ND		0.0050	0.0020	mg/Kg			08/03/17 09:06	1
2-Butanone (MEK)	ND		0.0050	0.0029	mg/Kg			08/03/17 09:06	1
Carbon tetrachloride	ND		0.0050	0.0033	mg/Kg			08/03/17 09:06	1
Chlorobenzene	ND		0.0050	0.0016	mg/Kg			08/03/17 09:06	1
Chloroform	ND		0.0050	0.0021	mg/Kg			08/03/17 09:06	1
cis-1,2-Dichloroethene	ND		0.0050	0.0016	mg/Kg			08/03/17 09:06	1
1,2-Dichlorobenzene	ND		0.0050	0.0040	mg/Kg			08/03/17 09:06	1
1,3-Dichlorobenzene	ND		0.0050	0.0016	mg/Kg			08/03/17 09:06	1
1,4-Dichlorobenzene	ND		0.0050	0.0010	mg/Kg			08/03/17 09:06	1
1,1-Dichloroethane	ND		0.0050	0.0018	mg/Kg			08/03/17 09:06	1
1,2-Dichloroethane	ND		0.0050	0.0015	mg/Kg			08/03/17 09:06	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 180-218968/9
Matrix: Solid
Analysis Batch: 218968

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		0.0050	0.0029	mg/Kg			08/03/17 09:06	1
Ethylbenzene	ND		0.0050	0.0022	mg/Kg			08/03/17 09:06	1
Methylene Chloride	ND		0.0050	0.0024	mg/Kg			08/03/17 09:06	1
Methyl tert-butyl ether	ND		0.0050	0.0037	mg/Kg			08/03/17 09:06	1
n-Butylbenzene	ND		0.0050	0.0038	mg/Kg			08/03/17 09:06	1
N-Propylbenzene	ND		0.0050	0.0021	mg/Kg			08/03/17 09:06	1
sec-Butylbenzene	ND		0.0050	0.0024	mg/Kg			08/03/17 09:06	1
tert-Butylbenzene	ND		0.0050	0.0018	mg/Kg			08/03/17 09:06	1
Tetrachloroethene	ND		0.0050	0.0020	mg/Kg			08/03/17 09:06	1
Toluene	ND		0.0050	0.0017	mg/Kg			08/03/17 09:06	1
trans-1,2-Dichloroethene	ND		0.0050	0.0025	mg/Kg			08/03/17 09:06	1
1,1,1-Trichloroethane	ND		0.0050	0.0025	mg/Kg			08/03/17 09:06	1
Trichloroethene	ND		0.0050	0.0015	mg/Kg			08/03/17 09:06	1
1,2,4-Trimethylbenzene	ND		0.0050	0.0013	mg/Kg			08/03/17 09:06	1
1,3,5-Trimethylbenzene	ND		0.0050	0.0017	mg/Kg			08/03/17 09:06	1
Vinyl chloride	ND		0.0050	0.0037	mg/Kg			08/03/17 09:06	1
Xylenes, Total	ND		0.010	0.0043	mg/Kg			08/03/17 09:06	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*63 - 120*		*08/03/17 09:06*	*1*
Dibromofluoromethane (Surr)	*102*		*68 - 121*		*08/03/17 09:06*	*1*
1,2-Dichloroethane-d4 (Surr)	*120*		*52 - 124*		*08/03/17 09:06*	*1*
Toluene-d8 (Surr)	*104*		*72 - 127*		*08/03/17 09:06*	*1*

Lab Sample ID: LCS 180-218968/4
Matrix: Solid
Analysis Batch: 218968

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0400	0.0348		mg/Kg		87	20 - 150
Benzene	0.0400	0.0415		mg/Kg		104	77 - 120
2-Butanone (MEK)	0.0400	0.0328		mg/Kg		82	35 - 149
Carbon tetrachloride	0.0400	0.0465		mg/Kg		116	69 - 122
Chlorobenzene	0.0400	0.0406		mg/Kg		102	79 - 120
Chloroform	0.0400	0.0450		mg/Kg		112	72 - 120
cis-1,2-Dichloroethene	0.0400	0.0416		mg/Kg		104	80 - 118
1,2-Dichlorobenzene	0.0400	0.0396		mg/Kg		99	71 - 124
1,3-Dichlorobenzene	0.0400	0.0400		mg/Kg		100	75 - 118
1,4-Dichlorobenzene	0.0400	0.0401		mg/Kg		100	77 - 116
1,1-Dichloroethane	0.0400	0.0448		mg/Kg		112	66 - 124
1,2-Dichloroethane	0.0400	0.0490		mg/Kg		123	61 - 127
1,1-Dichloroethene	0.0400	0.0408		mg/Kg		102	59 - 129
Ethylbenzene	0.0400	0.0407		mg/Kg		102	78 - 125
Methylene Chloride	0.0400	0.0407		mg/Kg		102	58 - 127
Methyl tert-butyl ether	0.0400	0.0454		mg/Kg		113	48 - 132
n-Butylbenzene	0.0400	0.0462		mg/Kg		115	59 - 145
N-Propylbenzene	0.0400	0.0428		mg/Kg		107	80 - 120
sec-Butylbenzene	0.0400	0.0444		mg/Kg		111	70 - 130

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 180-218968/4
Matrix: Solid
Analysis Batch: 218968

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
tert-Butylbenzene			0.0400	0.0437		mg/Kg		109	74 - 133		
Tetrachloroethene			0.0400	0.0369		mg/Kg		92	78 - 129		
Toluene			0.0400	0.0415		mg/Kg		104	78 - 124		
trans-1,2-Dichloroethene			0.0400	0.0433		mg/Kg		108	77 - 121		
1,1,1-Trichloroethane			0.0400	0.0478		mg/Kg		120	67 - 126		
Trichloroethene			0.0400	0.0386		mg/Kg		96	76 - 119		
1,2,4-Trimethylbenzene			0.0400	0.0432		mg/Kg		108	80 - 121		
1,3,5-Trimethylbenzene			0.0400	0.0436		mg/Kg		109	68 - 133		
Vinyl chloride			0.0400	0.0366		mg/Kg		91	63 - 124		
Xylenes, Total			0.0800	0.0807		mg/Kg		101	83 - 126		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*63 - 120*
Dibromofluoromethane (Surr)	*101*		*68 - 121*
1,2-Dichloroethane-d4 (Surr)	*114*		*52 - 124*
Toluene-d8 (Surr)	*100*		*72 - 127*

Lab Sample ID: LCSD 180-218968/5
Matrix: Solid
Analysis Batch: 218968

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone			0.0400	0.0312		mg/Kg		78	20 - 150	11	40
Benzene			0.0400	0.0383		mg/Kg		96	77 - 120	8	20
2-Butanone (MEK)			0.0400	0.0296		mg/Kg		74	35 - 149	10	36
Carbon tetrachloride			0.0400	0.0437		mg/Kg		109	69 - 122	6	22
Chlorobenzene			0.0400	0.0381		mg/Kg		95	79 - 120	7	20
Chloroform			0.0400	0.0415		mg/Kg		104	72 - 120	8	25
cis-1,2-Dichloroethene			0.0400	0.0388		mg/Kg		97	80 - 118	7	20
1,2-Dichlorobenzene			0.0400	0.0370		mg/Kg		93	71 - 124	7	22
1,3-Dichlorobenzene			0.0400	0.0366		mg/Kg		92	75 - 118	9	20
1,4-Dichlorobenzene			0.0400	0.0368		mg/Kg		92	77 - 116	9	20
1,1-Dichloroethane			0.0400	0.0417		mg/Kg		104	66 - 124	7	23
1,2-Dichloroethane			0.0400	0.0465		mg/Kg		116	61 - 127	5	23
1,1-Dichloroethene			0.0400	0.0370		mg/Kg		93	59 - 129	10	25
Ethylbenzene			0.0400	0.0380		mg/Kg		95	78 - 125	7	21
Methylene Chloride			0.0400	0.0386		mg/Kg		97	58 - 127	5	28
Methyl tert-butyl ether			0.0400	0.0433		mg/Kg		108	48 - 132	5	36
n-Butylbenzene			0.0400	0.0425		mg/Kg		106	59 - 145	8	24
N-Propylbenzene			0.0400	0.0388		mg/Kg		97	80 - 120	10	20
sec-Butylbenzene			0.0400	0.0405		mg/Kg		101	70 - 130	9	21
tert-Butylbenzene			0.0400	0.0402		mg/Kg		101	74 - 133	8	22
Tetrachloroethene			0.0400	0.0343		mg/Kg		86	78 - 129	7	20
Toluene			0.0400	0.0383		mg/Kg		96	78 - 124	8	21
trans-1,2-Dichloroethene			0.0400	0.0403		mg/Kg		101	77 - 121	7	20
1,1,1-Trichloroethane			0.0400	0.0452		mg/Kg		113	67 - 126	6	31
Trichloroethene			0.0400	0.0366		mg/Kg		92	76 - 119	5	21
1,2,4-Trimethylbenzene			0.0400	0.0392		mg/Kg		98	80 - 121	10	20

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 180-218968/5
Matrix: Solid
Analysis Batch: 218968

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,3,5-Trimethylbenzene			0.0400	0.0396		mg/Kg		99	68 - 133	10	21
Vinyl chloride			0.0400	0.0345		mg/Kg		86	63 - 124	6	27
Xylenes, Total			0.0800	0.0758		mg/Kg		95	83 - 126	6	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*63 - 120*
Dibromofluoromethane (Surr)	*95*		*68 - 121*
1,2-Dichloroethane-d4 (Surr)	*107*		*52 - 124*
Toluene-d8 (Surr)	*94*		*72 - 127*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Lab Sample ID: MB 180-219075/1-A
Matrix: Solid
Analysis Batch: 219126

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 219075

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0067	0.0022	mg/Kg		08/04/17 04:25	08/04/17 12:25	1
Acenaphthylene	ND		0.0067	0.0023	mg/Kg		08/04/17 04:25	08/04/17 12:25	1
Anthracene	ND		0.0067	0.0025	mg/Kg		08/04/17 04:25	08/04/17 12:25	1
Benzo[a]anthracene	ND		0.0067	0.0026	mg/Kg		08/04/17 04:25	08/04/17 12:25	1
Benzo[a]pyrene	ND		0.0067	0.0028	mg/Kg		08/04/17 04:25	08/04/17 12:25	1
Benzo[b]fluoranthene	ND		0.0067	0.0029	mg/Kg		08/04/17 04:25	08/04/17 12:25	1
Benzo[g,h,i]perylene	ND		0.0067	0.0029	mg/Kg		08/04/17 04:25	08/04/17 12:25	1
Benzo[k]fluoranthene	ND		0.0067	0.0023	mg/Kg		08/04/17 04:25	08/04/17 12:25	1
Chrysene	ND		0.0067	0.0026	mg/Kg		08/04/17 04:25	08/04/17 12:25	1
Dibenz(a,h)anthracene	ND		0.0067	0.0028	mg/Kg		08/04/17 04:25	08/04/17 12:25	1
Dibenzofuran	ND		0.033	0.0027	mg/Kg		08/04/17 04:25	08/04/17 12:25	1
2,4-Dinitrotoluene	ND		33	4.4	ug/Kg		08/04/17 04:25	08/04/17 12:25	1
1,4-Dioxane	ND		0.067	0.0050	mg/Kg		08/04/17 04:25	08/04/17 12:25	1
Fluoranthene	ND		0.0067	0.0026	mg/Kg		08/04/17 04:25	08/04/17 12:25	1
Fluorene	ND		0.0067	0.0024	mg/Kg		08/04/17 04:25	08/04/17 12:25	1
Hexachlorobenzene	ND		0.0067	0.0027	mg/Kg		08/04/17 04:25	08/04/17 12:25	1
Hexachlorobutadiene	ND		6.7	2.1	ug/Kg		08/04/17 04:25	08/04/17 12:25	1
Hexachloroethane	ND		33	2.4	ug/Kg		08/04/17 04:25	08/04/17 12:25	1
Indeno[1,2,3-cd]pyrene	ND		0.0067	0.0026	mg/Kg		08/04/17 04:25	08/04/17 12:25	1
2-Methylphenol	ND		0.033	0.0029	mg/Kg		08/04/17 04:25	08/04/17 12:25	1
Methylphenol, 3 & 4	ND		0.033	0.0030	mg/Kg		08/04/17 04:25	08/04/17 12:25	1
Naphthalene	ND		0.0067	0.0024	mg/Kg		08/04/17 04:25	08/04/17 12:25	1
Nitrobenzene	ND		67	2.5	ug/Kg		08/04/17 04:25	08/04/17 12:25	1
Pentachlorophenol	ND		0.17	0.063	mg/Kg		08/04/17 04:25	08/04/17 12:25	1
Phenanthrene	ND		0.0067	0.0028	mg/Kg		08/04/17 04:25	08/04/17 12:25	1
Phenol	ND		0.033	0.0045	mg/Kg		08/04/17 04:25	08/04/17 12:25	1
Pyrene	ND		0.0067	0.0030	mg/Kg		08/04/17 04:25	08/04/17 12:25	1
Pyridine	ND		33	3.2	ug/Kg		08/04/17 04:25	08/04/17 12:25	1
2,4,5-Trichlorophenol	ND		33	3.2	ug/Kg		08/04/17 04:25	08/04/17 12:25	1
2,4,6-Trichlorophenol	ND		33	2.9	ug/Kg		08/04/17 04:25	08/04/17 12:25	1

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: MB 180-219075/1-A
Matrix: Solid
Analysis Batch: 219126

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 219075

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	83		42 - 100	08/04/17 04:25	08/04/17 12:25	1
2-Fluorophenol (Surr)	81		21 - 107	08/04/17 04:25	08/04/17 12:25	1
Nitrobenzene-d5 (Surr)	78		35 - 109	08/04/17 04:25	08/04/17 12:25	1
Phenol-d5 (Surr)	73		29 - 105	08/04/17 04:25	08/04/17 12:25	1
Terphenyl-d14 (Surr)	82		36 - 113	08/04/17 04:25	08/04/17 12:25	1
2,4,6-Tribromophenol (Surr)	92		20 - 134	08/04/17 04:25	08/04/17 12:25	1

Lab Sample ID: LCS 180-219075/2-A
Matrix: Solid
Analysis Batch: 219126

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 219075

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	0.667	0.458		mg/Kg		69	39 - 100
Acenaphthylene	0.667	0.435		mg/Kg		65	42 - 100
Anthracene	0.667	0.474		mg/Kg		71	43 - 100
Benzo[a]anthracene	0.667	0.474		mg/Kg		71	43 - 100
Benzo[a]pyrene	0.667	0.449		mg/Kg		67	43 - 100
Benzo[b]fluoranthene	0.667	0.435		mg/Kg		65	40 - 100
Benzo[g,h,i]perylene	0.667	0.410		mg/Kg		61	41 - 102
Benzo[k]fluoranthene	0.667	0.435		mg/Kg		65	44 - 100
Chrysene	0.667	0.438		mg/Kg		66	44 - 100
Dibenz(a,h)anthracene	0.667	0.428		mg/Kg		64	40 - 104
Dibenzofuran	0.667	0.428		mg/Kg		64	42 - 100
2,4-Dinitrotoluene	667	444		ug/Kg		67	42 - 110
1,4-Dioxane	0.667	0.488		mg/Kg		73	19 - 107
Fluoranthene	0.667	0.455		mg/Kg		68	41 - 104
Fluorene	0.667	0.446		mg/Kg		67	41 - 100
Hexachlorobenzene	0.667	0.539		mg/Kg		81	43 - 100
Hexachlorobutadiene	667	560		ug/Kg		84	35 - 100
Hexachloroethane	667	398		ug/Kg		60	35 - 100
Indeno[1,2,3-cd]pyrene	0.667	0.435		mg/Kg		65	41 - 104
2-Methylphenol	0.667	0.399		mg/Kg		60	38 - 100
Methylphenol, 3 & 4	0.667	0.391		mg/Kg		59	40 - 100
Naphthalene	0.667	0.424		mg/Kg		64	38 - 100
Nitrobenzene	667	434		ug/Kg		65	34 - 100
Pentachlorophenol	1.33	1.05		mg/Kg		79	34 - 102
Phenanthrene	0.667	0.462		mg/Kg		69	41 - 100
Phenol	0.667	0.390		mg/Kg		58	36 - 100
Pyrene	0.667	0.452		mg/Kg		68	42 - 100
Pyridine	1330	1040		ug/Kg		78	25 - 119
2,4,5-Trichlorophenol	667	521		ug/Kg		78	42 - 100
2,4,6-Trichlorophenol	667	524		ug/Kg		79	41 - 103

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	69		42 - 100
2-Fluorophenol (Surr)	61		21 - 107
Nitrobenzene-d5 (Surr)	63		35 - 109

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCS 180-219075/2-A
Matrix: Solid
Analysis Batch: 219126

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 219075

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Phenol-d5 (Surr)	*56*		*29 - 105*
Terphenyl-d14 (Surr)	*68*		*36 - 113*
2,4,6-Tribromophenol (Surr)	*81*		*20 - 134*

Lab Sample ID: 180-68814-13 MS
Matrix: Solid
Analysis Batch: 219126

Client Sample ID: WB2-3, S1, C 08.01.17
Prep Type: Total/NA
Prep Batch: 219075

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	0.018		0.733	0.684		mg/Kg	☼	91	39 - 100
Acenaphthylene	0.082		0.733	0.650		mg/Kg	☼	78	42 - 100
Anthracene	0.13	F2 F1	0.733	0.987	F1	mg/Kg	☼	117	43 - 100
Benzo[a]anthracene	0.38	F2 F1	0.733	1.43	F1	mg/Kg	☼	144	43 - 100
Benzo[a]pyrene	0.38	F2 F1	0.733	1.29	F1	mg/Kg	☼	125	43 - 100
Benzo[b]fluoranthene	0.52	F2 F1	0.733	1.43	F1	mg/Kg	☼	123	40 - 100
Benzo[g,h,i]perylene	0.34	F2 F1	0.733	1.28	F1	mg/Kg	☼	128	41 - 102
Benzo[k]fluoranthene	0.16	F2	0.733	0.874		mg/Kg	☼	97	44 - 100
Chrysene	0.43	F2 F1	0.733	1.29	F1	mg/Kg	☼	118	44 - 100
Dibenz(a,h)anthracene	0.089		0.733	0.792		mg/Kg	☼	96	40 - 104
Dibenzofuran	0.022	J	0.733	0.612		mg/Kg	☼	80	42 - 100
2,4-Dinitrotoluene	ND		733	565		ug/Kg	☼	77	42 - 110
1,4-Dioxane	ND		0.733	0.539		mg/Kg	☼	74	19 - 107
Fluoranthene	0.63	F2 F1	0.733	2.29	E F1	mg/Kg	☼	226	41 - 104
Fluorene	0.021		0.733	0.688		mg/Kg	☼	91	41 - 100
Hexachlorobenzene	ND		0.733	0.604		mg/Kg	☼	82	43 - 100
Hexachlorobutadiene	ND		733	618		ug/Kg	☼	84	35 - 100
Hexachloroethane	ND		733	451		ug/Kg	☼	62	35 - 100
Indeno[1,2,3-cd]pyrene	0.31	F2 F1	0.733	1.21	F1	mg/Kg	☼	123	41 - 104
2-Methylphenol	ND		0.733	0.398		mg/Kg	☼	54	38 - 100
Methylphenol, 3 & 4	ND		0.733	0.388		mg/Kg	☼	53	40 - 100
Naphthalene	0.041		0.733	0.600		mg/Kg	☼	76	38 - 100
Nitrobenzene	ND		733	511		ug/Kg	☼	70	34 - 100
Pentachlorophenol	ND		1.47	1.09		mg/Kg	☼	74	34 - 102
Phenanthrene	0.33	F2 F1	0.733	1.83	E F1	mg/Kg	☼	204	41 - 100
Phenol	ND		0.733	0.392		mg/Kg	☼	54	36 - 100
Pyrene	0.57	F2 F1	0.733	1.58	E F1	mg/Kg	☼	139	42 - 100
Pyridine	ND	F1	1470	210	F1	ug/Kg	☼	14	25 - 119
2,4,5-Trichlorophenol	ND		733	579		ug/Kg	☼	79	42 - 100
2,4,6-Trichlorophenol	ND		733	608		ug/Kg	☼	83	41 - 103

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl	*70*		*42 - 100*
2-Fluorophenol (Surr)	*54*		*21 - 107*
Nitrobenzene-d5 (Surr)	*63*		*35 - 109*
Phenol-d5 (Surr)	*48*		*29 - 105*
Terphenyl-d14 (Surr)	*56*		*36 - 113*
2,4,6-Tribromophenol (Surr)	*80*		*20 - 134*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: 180-68814-13 MSD
Matrix: Solid
Analysis Batch: 219211

Client Sample ID: WB2-3, S1, C 08.01.17
Prep Type: Total/NA
Prep Batch: 219075

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	0.018		0.747	0.591		mg/Kg	☼	77	39 - 100	15	20
Acenaphthylene	0.082		0.747	0.649		mg/Kg	☼	76	42 - 100	0	20
Anthracene	0.13	F2 F1	0.747	0.686	F2	mg/Kg	☼	74	43 - 100	36	20
Benzo[a]anthracene	0.38	F2 F1	0.747	0.965	F2	mg/Kg	☼	78	43 - 100	39	20
Benzo[a]pyrene	0.38	F2 F1	0.747	0.834	F2	mg/Kg	☼	61	43 - 100	43	20
Benzo[b]fluoranthene	0.52	F2 F1	0.747	0.926	F2	mg/Kg	☼	54	40 - 100	43	20
Benzo[g,h,i]perylene	0.34	F2 F1	0.747	0.893	F2	mg/Kg	☼	73	41 - 102	36	20
Benzo[k]fluoranthene	0.16	F2	0.747	0.665	F2	mg/Kg	☼	67	44 - 100	27	20
Chrysene	0.43	F2 F1	0.747	0.861	F2	mg/Kg	☼	58	44 - 100	40	20
Dibenz(a,h)anthracene	0.089		0.747	0.682		mg/Kg	☼	79	40 - 104	15	26
Dibenzofuran	0.022	J	0.747	0.557		mg/Kg	☼	72	42 - 100	9	23
2,4-Dinitrotoluene	ND		747	615		ug/Kg	☼	82	42 - 110	8	21
1,4-Dioxane	ND		0.747	0.598		mg/Kg	☼	80	19 - 107	10	20
Fluoranthene	0.63	F2 F1	0.747	1.13	F2	mg/Kg	☼	67	41 - 104	68	20
Fluorene	0.021		0.747	0.586		mg/Kg	☼	76	41 - 100	16	21
Hexachlorobenzene	ND		0.747	0.685		mg/Kg	☼	92	43 - 100	12	21
Hexachlorobutadiene	ND		747	678		ug/Kg	☼	91	35 - 100	9	20
Hexachloroethane	ND		747	501		ug/Kg	☼	67	35 - 100	11	20
Indeno[1,2,3-cd]pyrene	0.31	F2 F1	0.747	0.878	F2	mg/Kg	☼	76	41 - 104	32	25
2-Methylphenol	ND		0.747	0.429		mg/Kg	☼	57	38 - 100	8	20
Methylphenol, 3 & 4	ND		0.747	0.425		mg/Kg	☼	57	40 - 100	9	20
Naphthalene	0.041		0.747	0.587		mg/Kg	☼	73	38 - 100	2	20
Nitrobenzene	ND		747	550		ug/Kg	☼	74	34 - 100	7	20
Pentachlorophenol	ND		1.49	1.02		mg/Kg	☼	68	34 - 102	7	20
Phenanthrene	0.33	F2 F1	0.747	0.837	F2	mg/Kg	☼	67	41 - 100	74	20
Phenol	ND		0.747	0.434		mg/Kg	☼	58	36 - 100	10	20
Pyrene	0.57	F2 F1	0.747	0.905	F2	mg/Kg	☼	45	42 - 100	55	21
Pyridine	ND	F1	1490	249	F1	ug/Kg	☼	17	25 - 119	17	20
2,4,5-Trichlorophenol	ND		747	614		ug/Kg	☼	82	42 - 100	6	22
2,4,6-Trichlorophenol	ND		747	631		ug/Kg	☼	84	41 - 103	4	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl	*72*		*42 - 100*
2-Fluorophenol (Surr)	*59*		*21 - 107*
Nitrobenzene-d5 (Surr)	*68*		*35 - 109*
Phenol-d5 (Surr)	*53*		*29 - 105*
Terphenyl-d14 (Surr)	*55*		*36 - 113*
2,4,6-Tribromophenol (Surr)	*80*		*20 - 134*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 180-219077/1-A
Matrix: Solid
Analysis Batch: 219079

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 219077

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.017	0.0088	mg/Kg		08/04/17 04:29	08/04/17 20:25	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: MB 180-219077/1-A
Matrix: Solid
Analysis Batch: 219079

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 219077

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1221	ND		0.017	0.0086	mg/Kg		08/04/17 04:29	08/04/17 20:25	1
PCB-1232	ND		0.017	0.0066	mg/Kg		08/04/17 04:29	08/04/17 20:25	1
PCB-1242	ND		0.017	0.013	mg/Kg		08/04/17 04:29	08/04/17 20:25	1
PCB-1248	ND		0.017	0.0080	mg/Kg		08/04/17 04:29	08/04/17 20:25	1
PCB-1254	ND		0.017	0.0073	mg/Kg		08/04/17 04:29	08/04/17 20:25	1
PCB-1260	ND		0.017	0.011	mg/Kg		08/04/17 04:29	08/04/17 20:25	1
PCB-1262	ND		0.017	0.012	mg/Kg		08/04/17 04:29	08/04/17 20:25	1
PCB-1268	ND		0.017	0.0051	mg/Kg		08/04/17 04:29	08/04/17 20:25	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*80*		*23 - 150*	*08/04/17 04:29*	*08/04/17 20:25*	*1*
DCB Decachlorobiphenyl (Surr)	*85*		*23 - 150*	*08/04/17 04:29*	*08/04/17 20:25*	*1*
Tetrachloro-m-xylene (Surr)	*87*		*27 - 138*	*08/04/17 04:29*	*08/04/17 20:25*	*1*
Tetrachloro-m-xylene (Surr)	*84*		*27 - 138*	*08/04/17 04:29*	*08/04/17 20:25*	*1*

Lab Sample ID: LCS 180-219077/2-A
Matrix: Solid
Analysis Batch: 219079

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 219077

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			1.33	1.22		mg/Kg		92	52 - 126		
PCB-1260			1.33	1.44		mg/Kg		108	50 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*90*		*23 - 150*
DCB Decachlorobiphenyl (Surr)	*92*		*23 - 150*
Tetrachloro-m-xylene (Surr)	*91*		*27 - 138*
Tetrachloro-m-xylene (Surr)	*87*		*27 - 138*

Lab Sample ID: LCSD 180-219077/3-A
Matrix: Solid
Analysis Batch: 219079

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 219077

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016			1.33	1.15		mg/Kg		86	52 - 126	6	20
PCB-1260			1.33	1.40		mg/Kg		105	50 - 130	3	21

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*82*		*23 - 150*
DCB Decachlorobiphenyl (Surr)	*87*		*23 - 150*
Tetrachloro-m-xylene (Surr)	*87*		*27 - 138*
Tetrachloro-m-xylene (Surr)	*82*		*27 - 138*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 180-218989/1-A
Matrix: Solid
Analysis Batch: 219329

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 218989

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		1.0	0.44	mg/Kg		08/03/17 09:17	08/07/17 09:00	1
Barium	ND		20	5.4	mg/Kg		08/03/17 09:17	08/07/17 09:00	1
Beryllium	ND		0.40	0.10	mg/Kg		08/03/17 09:17	08/07/17 09:00	1
Cadmium	ND		0.50	0.11	mg/Kg		08/03/17 09:17	08/07/17 09:00	1
Chromium	ND		0.50	0.13	mg/Kg		08/03/17 09:17	08/07/17 09:00	1
Copper	ND		2.5	0.77	mg/Kg		08/03/17 09:17	08/07/17 09:00	1
Lead	ND		1.0	0.33	mg/Kg		08/03/17 09:17	08/07/17 09:00	1
Manganese	ND		1.5	0.41	mg/Kg		08/03/17 09:17	08/07/17 09:00	1
Nickel	ND		4.0	0.90	mg/Kg		08/03/17 09:17	08/07/17 09:00	1
Selenium	ND	^	1.0	0.40	mg/Kg		08/03/17 09:17	08/07/17 09:00	1
Silver	ND		0.50	0.17	mg/Kg		08/03/17 09:17	08/07/17 09:00	1
Zinc	ND		2.0	1.0	mg/Kg		08/03/17 09:17	08/07/17 09:00	1

Lab Sample ID: LCS 180-218989/2-A
Matrix: Solid
Analysis Batch: 219329

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 218989

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	50.0	50.8		mg/Kg		102	80 - 120
Barium	200	202		mg/Kg		101	80 - 120
Beryllium	5.00	4.85		mg/Kg		97	80 - 120
Cadmium	5.00	5.18		mg/Kg		104	80 - 120
Chromium	20.0	19.1		mg/Kg		96	80 - 120
Copper	25.0	24.7		mg/Kg		99	80 - 120
Lead	50.0	46.6		mg/Kg		93	80 - 120
Manganese	50.0	49.4		mg/Kg		99	80 - 120
Nickel	50.0	47.6		mg/Kg		95	80 - 120
Selenium	50.0	48.9	^	mg/Kg		98	80 - 120
Silver	5.00	5.05		mg/Kg		101	80 - 120
Zinc	50.0	49.0		mg/Kg		98	80 - 120

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 180-219480/1-A
Matrix: Solid
Analysis Batch: 219600

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 219480

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.033	0.0074	mg/Kg		08/08/17 17:30	08/09/17 11:20	1

Lab Sample ID: LCS 180-219480/2-A
Matrix: Solid
Analysis Batch: 219600

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 219480

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.417	0.456		mg/Kg		109	80 - 120

Method: 7471B - Mercury (CVAA) (Continued)

Lab Sample ID: 180-68814-13 MS
Matrix: Solid
Analysis Batch: 219600

Client Sample ID: WB2-3, S1, C 08.01.17
Prep Type: Total/NA
Prep Batch: 219480

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.055	F1	0.176	0.291	F1	mg/Kg	☼	134	80 - 120

Lab Sample ID: 180-68814-13 MSD
Matrix: Solid
Analysis Batch: 219600

Client Sample ID: WB2-3, S1, C 08.01.17
Prep Type: Total/NA
Prep Batch: 219480

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.055	F1	0.194	0.278		mg/Kg	☼	115	80 - 120	4	20

Method: 2540G - SM 2540G

Lab Sample ID: 180-68814-16 DU
Matrix: Solid
Analysis Batch: 218909

Client Sample ID: WB2-3, S2, C 08.01.17
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	9.2		9.2		%		0.4	20
Percent Solids	90.8		90.8		%		0	20

Method: 9014 - Cyanide

Lab Sample ID: MB 180-219313/4-A
Matrix: Solid
Analysis Batch: 219406

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 219313

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.50	0.15	mg/Kg		08/07/17 11:25	08/07/17 15:26	1

Lab Sample ID: HLCS 180-219313/2-A
Matrix: Solid
Analysis Batch: 219406

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 219313

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.250	0.244		mg/Kg		98	90 - 110

Lab Sample ID: LCS 180-219313/3-A
Matrix: Solid
Analysis Batch: 219406

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 219313

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	163	103		mg/Kg		63	38 - 162

Lab Sample ID: LLCS 180-219313/1-A
Matrix: Solid
Analysis Batch: 219406

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 219313

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.0500	0.0504		mg/Kg		101	90 - 110

Method: 9014 - Cyanide (Continued)

Lab Sample ID: 180-68814-13 MS
Matrix: Solid
Analysis Batch: 219406

Client Sample ID: WB2-3, S1, C 08.01.17
Prep Type: Total/NA
Prep Batch: 219313

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	ND		5.64	5.79		mg/Kg	☼	103	75 - 125

Lab Sample ID: 180-68814-13 MSD
Matrix: Solid
Analysis Batch: 219406

Client Sample ID: WB2-3, S1, C 08.01.17
Prep Type: Total/NA
Prep Batch: 219313

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cyanide, Total	ND		5.48	5.46		mg/Kg	☼	100	75 - 125	6	20

GC/MS VOA

Analysis Batch: 218943

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68814-17	TRIP BLANK #1	Total/NA	Water	8260C	
MB 180-218943/5	Method Blank	Total/NA	Water	8260C	
LCS 180-218943/3	Lab Control Sample	Total/NA	Water	8260C	

Analysis Batch: 218968

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68814-11	WB2-3, S1, A 08.01.17	Total/NA	Solid	8260C	218980
180-68814-12	WB2-3, S1, B 08.01.17	Total/NA	Solid	8260C	218980
180-68814-14	WB2-3, S2, A 08.01.17	Total/NA	Solid	8260C	218980
180-68814-15	WB2-3, S2, B 08.01.17	Total/NA	Solid	8260C	218980
MB 180-218968/9	Method Blank	Total/NA	Solid	8260C	
LCS 180-218968/4	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 180-218968/5	Lab Control Sample Dup	Total/NA	Solid	8260C	

Prep Batch: 218980

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68814-11	WB2-3, S1, A 08.01.17	Total/NA	Solid	5035	
180-68814-12	WB2-3, S1, B 08.01.17	Total/NA	Solid	5035	
180-68814-14	WB2-3, S2, A 08.01.17	Total/NA	Solid	5035	
180-68814-15	WB2-3, S2, B 08.01.17	Total/NA	Solid	5035	

GC/MS Semi VOA

Prep Batch: 219075

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68814-13	WB2-3, S1, C 08.01.17	Total/NA	Solid	3541	
180-68814-16	WB2-3, S2, C 08.01.17	Total/NA	Solid	3541	
MB 180-219075/1-A	Method Blank	Total/NA	Solid	3541	
LCS 180-219075/2-A	Lab Control Sample	Total/NA	Solid	3541	
180-68814-13 MS	WB2-3, S1, C 08.01.17	Total/NA	Solid	3541	
180-68814-13 MSD	WB2-3, S1, C 08.01.17	Total/NA	Solid	3541	

Analysis Batch: 219126

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68814-13	WB2-3, S1, C 08.01.17	Total/NA	Solid	8270D LL	219075
MB 180-219075/1-A	Method Blank	Total/NA	Solid	8270D LL	219075
LCS 180-219075/2-A	Lab Control Sample	Total/NA	Solid	8270D LL	219075
180-68814-13 MS	WB2-3, S1, C 08.01.17	Total/NA	Solid	8270D LL	219075

Analysis Batch: 219211

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68814-16	WB2-3, S2, C 08.01.17	Total/NA	Solid	8270D LL	219075
180-68814-13 MSD	WB2-3, S1, C 08.01.17	Total/NA	Solid	8270D LL	219075

GC Semi VOA

Prep Batch: 219077

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68814-13	WB2-3, S1, C 08.01.17	Total/NA	Solid	3541	
180-68814-16	WB2-3, S2, C 08.01.17	Total/NA	Solid	3541	

GC Semi VOA (Continued)

Prep Batch: 219077 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 180-219077/1-A	Method Blank	Total/NA	Solid	3541	
LCS 180-219077/2-A	Lab Control Sample	Total/NA	Solid	3541	
LCSD 180-219077/3-A	Lab Control Sample Dup	Total/NA	Solid	3541	

Analysis Batch: 219079

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68814-13	WB2-3, S1, C 08.01.17	Total/NA	Solid	8082A	219145
180-68814-16	WB2-3, S2, C 08.01.17	Total/NA	Solid	8082A	219145
MB 180-219077/1-A	Method Blank	Total/NA	Solid	8082A	219077
LCS 180-219077/2-A	Lab Control Sample	Total/NA	Solid	8082A	219077
LCSD 180-219077/3-A	Lab Control Sample Dup	Total/NA	Solid	8082A	219077

Cleanup Batch: 219144

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68814-13	WB2-3, S1, C 08.01.17	Total/NA	Solid	3665A	219077
180-68814-16	WB2-3, S2, C 08.01.17	Total/NA	Solid	3665A	219077

Cleanup Batch: 219145

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68814-13	WB2-3, S1, C 08.01.17	Total/NA	Solid	3660B	219144
180-68814-16	WB2-3, S2, C 08.01.17	Total/NA	Solid	3660B	219144

Metals

Prep Batch: 218989

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68814-13	WB2-3, S1, C 08.01.17	Total/NA	Solid	3050B	
180-68814-16	WB2-3, S2, C 08.01.17	Total/NA	Solid	3050B	
MB 180-218989/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 180-218989/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Analysis Batch: 219329

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68814-13	WB2-3, S1, C 08.01.17	Total/NA	Solid	6010C	218989
180-68814-16	WB2-3, S2, C 08.01.17	Total/NA	Solid	6010C	218989
MB 180-218989/1-A	Method Blank	Total/NA	Solid	6010C	218989
LCS 180-218989/2-A	Lab Control Sample	Total/NA	Solid	6010C	218989

Prep Batch: 219480

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68814-13	WB2-3, S1, C 08.01.17	Total/NA	Solid	7471B	
180-68814-16	WB2-3, S2, C 08.01.17	Total/NA	Solid	7471B	
MB 180-219480/1-A	Method Blank	Total/NA	Solid	7471B	
LCS 180-219480/2-A	Lab Control Sample	Total/NA	Solid	7471B	
180-68814-13 MS	WB2-3, S1, C 08.01.17	Total/NA	Solid	7471B	
180-68814-13 MSD	WB2-3, S1, C 08.01.17	Total/NA	Solid	7471B	

Analysis Batch: 219600

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68814-13	WB2-3, S1, C 08.01.17	Total/NA	Solid	7471B	219480

Metals (Continued)

Analysis Batch: 219600 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68814-16	WB2-3, S2, C 08.01.17	Total/NA	Solid	7471B	219480
MB 180-219480/1-A	Method Blank	Total/NA	Solid	7471B	219480
LCS 180-219480/2-A	Lab Control Sample	Total/NA	Solid	7471B	219480
180-68814-13 MS	WB2-3, S1, C 08.01.17	Total/NA	Solid	7471B	219480
180-68814-13 MSD	WB2-3, S1, C 08.01.17	Total/NA	Solid	7471B	219480

General Chemistry

Analysis Batch: 218909

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68814-11	WB2-3, S1, A 08.01.17	Total/NA	Solid	2540G	
180-68814-12	WB2-3, S1, B 08.01.17	Total/NA	Solid	2540G	
180-68814-13	WB2-3, S1, C 08.01.17	Total/NA	Solid	2540G	
180-68814-14	WB2-3, S2, A 08.01.17	Total/NA	Solid	2540G	
180-68814-15	WB2-3, S2, B 08.01.17	Total/NA	Solid	2540G	
180-68814-16	WB2-3, S2, C 08.01.17	Total/NA	Solid	2540G	
180-68814-16 DU	WB2-3, S2, C 08.01.17	Total/NA	Solid	2540G	

Prep Batch: 219313

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68814-13	WB2-3, S1, C 08.01.17	Total/NA	Solid	9010C	
180-68814-16	WB2-3, S2, C 08.01.17	Total/NA	Solid	9010C	
MB 180-219313/4-A	Method Blank	Total/NA	Solid	9010C	
HLCS 180-219313/2-A	Lab Control Sample	Total/NA	Solid	9010C	
LCS 180-219313/3-A	Lab Control Sample	Total/NA	Solid	9010C	
LLCS 180-219313/1-A	Lab Control Sample	Total/NA	Solid	9010C	
180-68814-13 MS	WB2-3, S1, C 08.01.17	Total/NA	Solid	9010C	
180-68814-13 MSD	WB2-3, S1, C 08.01.17	Total/NA	Solid	9010C	

Analysis Batch: 219406

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68814-13	WB2-3, S1, C 08.01.17	Total/NA	Solid	9014	219313
180-68814-16	WB2-3, S2, C 08.01.17	Total/NA	Solid	9014	219313
MB 180-219313/4-A	Method Blank	Total/NA	Solid	9014	219313
HLCS 180-219313/2-A	Lab Control Sample	Total/NA	Solid	9014	219313
LCS 180-219313/3-A	Lab Control Sample	Total/NA	Solid	9014	219313
LLCS 180-219313/1-A	Lab Control Sample	Total/NA	Solid	9014	219313
180-68814-13 MS	WB2-3, S1, C 08.01.17	Total/NA	Solid	9014	219313
180-68814-13 MSD	WB2-3, S1, C 08.01.17	Total/NA	Solid	9014	219313

TestAmerica Pittsburgh
301 Alpha Drive RIDC Park
Pittsburgh, PA 15238
Phone (412) 963-7058 Fax (412) 963-2468

Chain of Custody Record

180-68814 Chain of Custody

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Ellen Buelow	Lab PM: Dunlap, David A	COC No: 180-38494-8381.1
Client Contact: Ashwin Ranna; Aron Krasnopoler	Phone: 412-552-4758	E-Mail: david.dunlap@testamericainc.com	Page: Page of
Company: Geosyntec Consultants, Inc.			Job #:
Address: Penn Center West One, Suite 402 1 Penn Center West Drive	Due Date Requested:		
City: Pittsburgh	TAT Requested (days): 1 day TAT		
State, Zip: PA, 15276			
Phone:	PO #: MN0832B		
Email: aranna@geosyntec.com; Akrasnopoler@geosyntec.com	WO #:		
Project Name: Former Sperry Remington Site - North IRM	Project #: 18013464		
Site: FORMER SPERRY REMINGTON SITE	SSOW#:		

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No) - FOR ALL	Perform MS/MSD (Yes or No) - FOR ALL	8260C - VOA-Select List	6010C, 7471B, 9014 - Select ICP Metals, Mercury, Cyanide	8082A, 8270D, PCBs, Select BNA	8260C - VOA-Select List (Trip Blanks only)	TCLP RCRA METALS	TCLP SEMI VOA	TCLP VOC	PCBS 8082A	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	A	N	N	N	N		
WB4-5, S3, A 08.01.17	08.01.17	9:55	G	Solid	N	N							X		2	
WB4-5, S3, C 08.01.17	08.01.17	10:00	C	Solid	N	N					X	X		X	3	
WB4-5, S4, A 08.01.17	08.01.17	10:10	G	Solid	N	N							X		2	
WB4-5, S4, C 08.01.17	08.01.17	10:20	C	Solid	N	N					X	X		X	3	
W9, S5, A 08.01.17	08.01.17	10:45	G	Solid	N	N							X		2	
W9, S5, C 08.01.17	08.01.17	10:50	C	Solid	N	N					X	X		X	3	
WB5-6, S2, A 08.01.17	08.01.17	11:35	G	Solid	N	N							X		2	
WB5-6, S2, C 08.01.17	08.01.17	11:45	C	Solid	N	N					X	X		X	3	
WB5-6, S3, A 08.01.17	08.01.17	12:00	G	Solid	N	N							X		2	
WB5-6, S3, C 08.01.17	08.01.17	12:05	C	Solid	N	N					X	X		X	3	
WB2-3, S1, A 08.01.17	08.01.17	15:45	G	Solid	N	N	X								4	

RUSH

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Date/Time	Company	Received by	Date/Time	Company
Relinquished by:	08.01.17 18:45	Geosyntec		8/2/17 845	TAP
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

8/10/2017

TestAmerica Pittsburgh
301 Alpha Drive RIDC Park
Pittsburgh, PA 15238
Phone (412) 963-7058 Fax (412) 963-2468

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Ellen Buelow	Lab PM: Dunlap, David A	Carrier Tracking No(s):	COC No: 180-38494-8381.1
Client Contact: Ashwin Ranna; Aron Krasnopoler	Phone: 412-552-4758	E-Mail: david.dunlap@testamericainc.com		Page: Page of
Company: Geosyntec Consultants, Inc.				Job #:
Address: Penn Center West One, Suite 402 1 Penn Center West Drive	Due Date Requested:			
City: Pittsburgh	TAT Requested (days): 1 day TAT			
State, Zip: PA, 15276				
Phone:	PO #: MN0832B			
Email: aranna@geosyntec.com; Akrasnopoler@geosyntec.com	WO #:			
Project Name: Former Sperry Remington Site - North IRM	Project #: 18013464			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - VOA-Select List	6010C, 7471B, 9014 - Select ICP Metals, Mercury, Cyanide	8082A, 8270D, PCBs, Select BNA	8260C - VOA-Select List (Trip Blanks only)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	A		
WB2-3,S1,B 08.01.17	08.01.17	15:55	G	Solid	N	N	X				4	RUSH
WB2-3,S1,C 08.01.17	08.01.17	16:05	C	Solid	N	N		X	X		2	RUSH
WB2-3,S2,A 08.01.17	08.01.17	16:40	G	Solid	N	N	X				4	RUSH
WB2-3,S2,B 08.01.17	08.01.17	16:50	G	Solid	N	N	X				4	RUSH
WB2-3,S2,C 08.01.17	08.01.17	16:55	C	Solid	N	N		X	X		2	RUSH
TRIP BLANK #1	08.01.17	—	—	W ~~Solid~~	N	N				X	2	—
				Solid								
				Solid								
				Solid								
				~~Solid~~								
				Solid								

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		08.01.17 18:65	Geosyntec	TAP	8/2/17 845	TAP
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

8/10/2017

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 180-68814-2

Login Number: 68814
List Number: 1
Creator: Say, Thomas C

List Source: TestAmerica Pittsburgh

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

TestAmerica Job ID: 180-68875-2
Client Project/Site: Former Sperry Remington Site - North IRM

For:
Geosyntec Consultants, Inc.
10211 Wincopin Circle
4'th Floor
Columbia, Maryland 21044

Attn: Mr. Aron Krasnopoler

Authorized for release by:
8/15/2017 4:12:40 PM

David Dunlap, Senior Project Manager
(412)963-2432
david.dunlap@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68875-2

Job ID: 180-68875-2

Laboratory: TestAmerica Pittsburgh

Narrative

Job Narrative
180-68875-2

Receipt
The samples were received on 8/3/2017 8:50 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 0.8º C.

A trip blank was submitted for analysis with these samples; however, it was not listed on the Chain of Custody (COC) as a sample.

GC/MS VOA
Method(s) 8260C: The continuing calibration verification (CCV) analyzed in batch 180-219096 was below criteria for the following analyte: 2-butanone (MEK). A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte is considered estimated.

Method(s) 8260C: The continuing calibration verification (CCV) analyzed in 180-219248 was above criteria for the following analyte: 1,1,1-trichloroethane. As the CCV was high and this analyte was not detected in the associated sample, the results were reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC Semi VOA
Method(s) 8082A: The continuing calibration verification (CCV) analyzed in batch 180-220002 was above criteria for arcolor 1254 (CCV 180-220002/1) on column RTX-CLP1. The aroclor 1254 result in the associated sample was reported from column RTX-CLP2, which met criteria. The % difference between the sample results on both columns was <40%.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc. TestAmerica Job ID: 180-68875-2
Project/Site: Former Sperry Remington Site - North IRM

Laboratory: TestAmerica Pittsburgh

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	11182	03-31-18

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
2540G		Solid	Percent Moisture
2540G		Solid	Percent Solids
8270D LL	3541	Solid	1,4-Dioxane

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68875-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-68875-9	WB2-3, S3, A 08.02.17	Solid	08/02/17 16:10	08/03/17 08:50
180-68875-12	WB2-3, S3, B 08.02.17	Solid	08/02/17 16:15	08/03/17 08:50
180-68875-13	WB2-3, S3, C 08.02.17	Solid	08/02/17 16:20	08/03/17 08:50
180-68875-14	DUP 24	Solid	08/02/17 00:00	08/03/17 08:50
180-68875-15	TRIP BLANK #1	Water	08/02/17 00:00	08/03/17 08:50

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68875-2

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL PIT
8260C	Volatile Organic Compounds (GC/MS)	SW846	TAL PIT
8270D LL	Semivolatile Organic Compounds by GC/MS - Low Level	SW846	TAL PIT
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL PIT
6010C	Metals (ICP)	SW846	TAL PIT
7471B	Mercury (CVAA)	SW846	TAL PIT
2540G	SM 2540G	SM22	TAL PIT
9014	Cyanide	SW846	TAL PIT

Protocol References:

SM22 = SM22

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68875-2

Client Sample ID: WB2-3, S3, A 08.02.17
Date Collected: 08/02/17 16:10
Date Received: 08/03/17 08:50

Lab Sample ID: 180-68875-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			219137	08/04/17 11:05	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: WB2-3, S3, A 08.02.17
Date Collected: 08/02/17 16:10
Date Received: 08/03/17 08:50

Lab Sample ID: 180-68875-9
Matrix: Solid
Percent Solids: 89.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.5933 g	5 mL	219255	08/07/17 05:30	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	219248	08/07/17 09:24	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: WB2-3, S3, B 08.02.17
Date Collected: 08/02/17 16:15
Date Received: 08/03/17 08:50

Lab Sample ID: 180-68875-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			219137	08/04/17 11:05	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: WB2-3, S3, B 08.02.17
Date Collected: 08/02/17 16:15
Date Received: 08/03/17 08:50

Lab Sample ID: 180-68875-12
Matrix: Solid
Percent Solids: 90.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.761 g	5 mL	219095	08/04/17 05:28	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	219096	08/04/17 16:59	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: WB2-3, S3, C 08.02.17
Date Collected: 08/02/17 16:20
Date Received: 08/03/17 08:50

Lab Sample ID: 180-68875-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			219137	08/04/17 11:05	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: WB2-3, S3, C 08.02.17
Date Collected: 08/02/17 16:20
Date Received: 08/03/17 08:50

Lab Sample ID: 180-68875-13
Matrix: Solid
Percent Solids: 90.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	0.5 mL	219916	08/13/17 12:17	MAL	TAL PIT

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68875-2

Client Sample ID: WB2-3, S3, C 08.02.17

Date Collected: 08/02/17 16:20
Date Received: 08/03/17 08:50

Lab Sample ID: 180-68875-13

Matrix: Solid
Percent Solids: 90.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8270D LL		1	1 mL	1 mL	219952	08/14/17 10:32	VVP	TAL PIT
	Instrument ID: CH733									
Total/NA	Prep	3541			15.0 g	20.0 mL	219927	08/14/17 03:48	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	219988	08/14/17 10:20	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	219989	08/14/17 10:21	JMO	TAL PIT
Total/NA	Analysis	8082A		1			220002	08/15/17 00:45	JMO	TAL PIT
	Instrument ID: CHGC8									
Total/NA	Prep	3050B			0.96 g	100 mL	219443	08/08/17 14:03	SES	TAL PIT
Total/NA	Analysis	6010C		1			219711	08/10/17 12:19	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.60 g	100 mL	219480	08/08/17 17:30	RJR	TAL PIT
Total/NA	Analysis	7471B		1			219600	08/09/17 11:32	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.00 g	50 mL	219313	08/07/17 11:25	JAS	TAL PIT
Total/NA	Analysis	9014		1			219406	08/07/17 15:40	JAS	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: DUP 24

Date Collected: 08/02/17 00:00
Date Received: 08/03/17 08:50

Lab Sample ID: 180-68875-14

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			219137	08/04/17 11:05	JTL	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: DUP 24

Date Collected: 08/02/17 00:00
Date Received: 08/03/17 08:50

Lab Sample ID: 180-68875-14

Matrix: Solid
Percent Solids: 88.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.8102 g	5 mL	219095	08/04/17 05:28	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	219096	08/04/17 17:22	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: TRIP BLANK #1

Date Collected: 08/02/17 00:00
Date Received: 08/03/17 08:50

Lab Sample ID: 180-68875-15

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	219231	08/07/17 05:42	FBB	TAL PIT
	Instrument ID: CHHP5									

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68875-2

Analyst References:

Lab: TAL PIT

Batch Type: Cleanup

JMO = John Oravec

Batch Type: Prep

BAP = Brian Pino

JAS = Joshua Schmidt

KLG = Kathy Gordon

MAL = Michael Lonzo

RJR = Ron Rosenbaum

SES = Samantha Strauser

Batch Type: Analysis

FBB = Frank Bungard

JAS = Joshua Schmidt

JMO = John Oravec

JTL = Justin Landry

KLG = Kathy Gordon

RJG = Rob Good

RJR = Ron Rosenbaum

VVP = Vincent Piccolino

Client Sample ID: WB2-3, S3, A 08.02.17

Lab Sample ID: 180-68875-9
Date Collected: 08/02/17 16:10
Matrix: Solid
Date Received: 08/03/17 08:50
Percent Solids: 89.4

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.017	0.0027	mg/Kg	☼	08/07/17 05:30	08/07/17 09:24	1
Benzene	ND		0.0042	0.0017	mg/Kg	☼	08/07/17 05:30	08/07/17 09:24	1
2-Butanone (MEK)	ND		0.0042	0.0025	mg/Kg	☼	08/07/17 05:30	08/07/17 09:24	1
Carbon tetrachloride	ND		0.0042	0.0028	mg/Kg	☼	08/07/17 05:30	08/07/17 09:24	1
Chlorobenzene	ND		0.0042	0.0013	mg/Kg	☼	08/07/17 05:30	08/07/17 09:24	1
Chloroform	ND		0.0042	0.0018	mg/Kg	☼	08/07/17 05:30	08/07/17 09:24	1
cis-1,2-Dichloroethene	ND		0.0042	0.0013	mg/Kg	☼	08/07/17 05:30	08/07/17 09:24	1
1,2-Dichlorobenzene	ND		0.0042	0.0034	mg/Kg	☼	08/07/17 05:30	08/07/17 09:24	1
1,3-Dichlorobenzene	ND		0.0042	0.0014	mg/Kg	☼	08/07/17 05:30	08/07/17 09:24	1
1,4-Dichlorobenzene	ND		0.0042	0.00087	mg/Kg	☼	08/07/17 05:30	08/07/17 09:24	1
1,1-Dichloroethane	ND		0.0042	0.0015	mg/Kg	☼	08/07/17 05:30	08/07/17 09:24	1
1,2-Dichloroethane	ND		0.0042	0.0012	mg/Kg	☼	08/07/17 05:30	08/07/17 09:24	1
1,1-Dichloroethene	ND		0.0042	0.0024	mg/Kg	☼	08/07/17 05:30	08/07/17 09:24	1
Ethylbenzene	ND		0.0042	0.0018	mg/Kg	☼	08/07/17 05:30	08/07/17 09:24	1
Methylene Chloride	ND		0.0042	0.0020	mg/Kg	☼	08/07/17 05:30	08/07/17 09:24	1
Methyl tert-butyl ether	ND		0.0042	0.0031	mg/Kg	☼	08/07/17 05:30	08/07/17 09:24	1
n-Butylbenzene	ND		0.0042	0.0032	mg/Kg	☼	08/07/17 05:30	08/07/17 09:24	1
N-Propylbenzene	ND		0.0042	0.0018	mg/Kg	☼	08/07/17 05:30	08/07/17 09:24	1
sec-Butylbenzene	ND		0.0042	0.0021	mg/Kg	☼	08/07/17 05:30	08/07/17 09:24	1
tert-Butylbenzene	ND		0.0042	0.0016	mg/Kg	☼	08/07/17 05:30	08/07/17 09:24	1
Tetrachloroethene	ND		0.0042	0.0017	mg/Kg	☼	08/07/17 05:30	08/07/17 09:24	1
Toluene	ND		0.0042	0.0014	mg/Kg	☼	08/07/17 05:30	08/07/17 09:24	1
trans-1,2-Dichloroethene	ND		0.0042	0.0022	mg/Kg	☼	08/07/17 05:30	08/07/17 09:24	1
1,1,1-Trichloroethane	ND		0.0042	0.0021	mg/Kg	☼	08/07/17 05:30	08/07/17 09:24	1
Trichloroethene	ND		0.0042	0.0013	mg/Kg	☼	08/07/17 05:30	08/07/17 09:24	1
1,2,4-Trimethylbenzene	ND		0.0042	0.0011	mg/Kg	☼	08/07/17 05:30	08/07/17 09:24	1
1,3,5-Trimethylbenzene	ND		0.0042	0.0015	mg/Kg	☼	08/07/17 05:30	08/07/17 09:24	1
Vinyl chloride	ND		0.0042	0.0031	mg/Kg	☼	08/07/17 05:30	08/07/17 09:24	1
Xylenes, Total	ND		0.0085	0.0037	mg/Kg	☼	08/07/17 05:30	08/07/17 09:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*63 - 120*	*08/07/17 05:30*	*08/07/17 09:24*	*1*
Dibromofluoromethane (Surr)	*102*		*68 - 121*	*08/07/17 05:30*	*08/07/17 09:24*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*52 - 124*	*08/07/17 05:30*	*08/07/17 09:24*	*1*
Toluene-d8 (Surr)	*109*		*72 - 127*	*08/07/17 05:30*	*08/07/17 09:24*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**10.6**		0.1	0.1	%			08/04/17 11:05	1
Percent Solids	**89.4**		0.1	0.1	%			08/04/17 11:05	1

Client Sample ID: WB2-3, S3, B 08.02.17

Lab Sample ID: 180-68875-12
Date Collected: 08/02/17 16:15
Matrix: Solid
Date Received: 08/03/17 08:50
Percent Solids: 90.4

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.019	0.0030	mg/Kg	☼	08/04/17 05:28	08/04/17 16:59	1
Benzene	ND		0.0048	0.0019	mg/Kg	☼	08/04/17 05:28	08/04/17 16:59	1
2-Butanone (MEK)	ND		0.0048	0.0028	mg/Kg	☼	08/04/17 05:28	08/04/17 16:59	1

Client Sample ID: WB2-3, S3, B 08.02.17 — Lab Sample ID: 180-68875-12

Date Collected: 08/02/17 16:15 — **Matrix: Solid**
Date Received: 08/03/17 08:50 — **Percent Solids: 90.4**

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	ND		0.0048	0.0032	mg/Kg	☼	08/04/17 05:28	08/04/17 16:59	1
Chlorobenzene	ND		0.0048	0.0015	mg/Kg	☼	08/04/17 05:28	08/04/17 16:59	1
Chloroform	ND		0.0048	0.0020	mg/Kg	☼	08/04/17 05:28	08/04/17 16:59	1
cis-1,2-Dichloroethene	ND		0.0048	0.0015	mg/Kg	☼	08/04/17 05:28	08/04/17 16:59	1
1,2-Dichlorobenzene	ND		0.0048	0.0039	mg/Kg	☼	08/04/17 05:28	08/04/17 16:59	1
1,3-Dichlorobenzene	ND		0.0048	0.0015	mg/Kg	☼	08/04/17 05:28	08/04/17 16:59	1
1,4-Dichlorobenzene	ND		0.0048	0.00098	mg/Kg	☼	08/04/17 05:28	08/04/17 16:59	1
1,1-Dichloroethane	ND		0.0048	0.0017	mg/Kg	☼	08/04/17 05:28	08/04/17 16:59	1
1,2-Dichloroethane	ND		0.0048	0.0014	mg/Kg	☼	08/04/17 05:28	08/04/17 16:59	1
1,1-Dichloroethene	ND		0.0048	0.0027	mg/Kg	☼	08/04/17 05:28	08/04/17 16:59	1
Ethylbenzene	ND		0.0048	0.0021	mg/Kg	☼	08/04/17 05:28	08/04/17 16:59	1
Methylene Chloride	ND		0.0048	0.0023	mg/Kg	☼	08/04/17 05:28	08/04/17 16:59	1
Methyl tert-butyl ether	ND		0.0048	0.0035	mg/Kg	☼	08/04/17 05:28	08/04/17 16:59	1
n-Butylbenzene	ND		0.0048	0.0036	mg/Kg	☼	08/04/17 05:28	08/04/17 16:59	1
N-Propylbenzene	ND		0.0048	0.0020	mg/Kg	☼	08/04/17 05:28	08/04/17 16:59	1
sec-Butylbenzene	ND		0.0048	0.0023	mg/Kg	☼	08/04/17 05:28	08/04/17 16:59	1
tert-Butylbenzene	ND		0.0048	0.0018	mg/Kg	☼	08/04/17 05:28	08/04/17 16:59	1
Tetrachloroethene	ND		0.0048	0.0019	mg/Kg	☼	08/04/17 05:28	08/04/17 16:59	1
Toluene	ND		0.0048	0.0016	mg/Kg	☼	08/04/17 05:28	08/04/17 16:59	1
trans-1,2-Dichloroethene	ND		0.0048	0.0024	mg/Kg	☼	08/04/17 05:28	08/04/17 16:59	1
1,1,1-Trichloroethane	ND		0.0048	0.0024	mg/Kg	☼	08/04/17 05:28	08/04/17 16:59	1
Trichloroethene	ND		0.0048	0.0014	mg/Kg	☼	08/04/17 05:28	08/04/17 16:59	1
1,2,4-Trimethylbenzene	ND		0.0048	0.0013	mg/Kg	☼	08/04/17 05:28	08/04/17 16:59	1
1,3,5-Trimethylbenzene	ND		0.0048	0.0017	mg/Kg	☼	08/04/17 05:28	08/04/17 16:59	1
Vinyl chloride	ND		0.0048	0.0035	mg/Kg	☼	08/04/17 05:28	08/04/17 16:59	1
Xylenes, Total	ND		0.0096	0.0041	mg/Kg	☼	08/04/17 05:28	08/04/17 16:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*63 - 120*	*08/04/17 05:28*	*08/04/17 16:59*	*1*
Dibromofluoromethane (Surr)	*101*		*68 - 121*	*08/04/17 05:28*	*08/04/17 16:59*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*52 - 124*	*08/04/17 05:28*	*08/04/17 16:59*	*1*
Toluene-d8 (Surr)	*107*		*72 - 127*	*08/04/17 05:28*	*08/04/17 16:59*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.6**		0.1	0.1	%			08/04/17 11:05	1
Percent Solids	**90.4**		0.1	0.1	%			08/04/17 11:05	1

Client Sample ID: WB2-3, S3, C 08.02.17 — Lab Sample ID: 180-68875-13

Date Collected: 08/02/17 16:20 — **Matrix: Solid**
Date Received: 08/03/17 08:50 — **Percent Solids: 90.6**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.010**		0.0074	0.0025	mg/Kg	☼	08/13/17 12:17	08/14/17 10:32	1
Acenaphthylene	**0.12**		0.0074	0.0025	mg/Kg	☼	08/13/17 12:17	08/14/17 10:32	1
Anthracene	**0.097**		0.0074	0.0027	mg/Kg	☼	08/13/17 12:17	08/14/17 10:32	1
Benzo[a]anthracene	**0.26**		0.0074	0.0029	mg/Kg	☼	08/13/17 12:17	08/14/17 10:32	1
Benzo[a]pyrene	**0.25**		0.0074	0.0030	mg/Kg	☼	08/13/17 12:17	08/14/17 10:32	1
Benzo[b]fluoranthene	**0.37**		0.0074	0.0032	mg/Kg	☼	08/13/17 12:17	08/14/17 10:32	1

Client Sample ID: WB2-3, S3, C 08.02.17 **Lab Sample ID: 180-68875-13**
Date Collected: 08/02/17 16:20 **Matrix: Solid**
Date Received: 08/03/17 08:50 **Percent Solids: 90.6**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	**0.28**		0.0074	0.0032	mg/Kg	☼	08/13/17 12:17	08/14/17 10:32	1
Benzo[k]fluoranthene	**0.11**		0.0074	0.0025	mg/Kg	☼	08/13/17 12:17	08/14/17 10:32	1
Chrysene	**0.29**		0.0074	0.0029	mg/Kg	☼	08/13/17 12:17	08/14/17 10:32	1
Dibenz(a,h)anthracene	**0.067**		0.0074	0.0030	mg/Kg	☼	08/13/17 12:17	08/14/17 10:32	1
Dibenzofuran	**0.018**	**J**	0.036	0.0029	mg/Kg	☼	08/13/17 12:17	08/14/17 10:32	1
2,4-Dinitrotoluene	ND		36	4.9	ug/Kg	☼	08/13/17 12:17	08/14/17 10:32	1
1,4-Dioxane	ND		0.074	0.0055	mg/Kg	☼	08/13/17 12:17	08/14/17 10:32	1
Fluoranthene	**0.37**		0.0074	0.0029	mg/Kg	☼	08/13/17 12:17	08/14/17 10:32	1
Fluorene	**0.016**		0.0074	0.0026	mg/Kg	☼	08/13/17 12:17	08/14/17 10:32	1
Hexachlorobenzene	ND		0.0074	0.0030	mg/Kg	☼	08/13/17 12:17	08/14/17 10:32	1
Hexachlorobutadiene	ND		7.4	2.3	ug/Kg	☼	08/13/17 12:17	08/14/17 10:32	1
Hexachloroethane	ND		36	2.6	ug/Kg	☼	08/13/17 12:17	08/14/17 10:32	1
Indeno[1,2,3-cd]pyrene	**0.22**		0.0074	0.0028	mg/Kg	☼	08/13/17 12:17	08/14/17 10:32	1
2-Methylphenol	ND		0.036	0.0032	mg/Kg	☼	08/13/17 12:17	08/14/17 10:32	1
Methylphenol, 3 & 4	ND		0.036	0.0033	mg/Kg	☼	08/13/17 12:17	08/14/17 10:32	1
Naphthalene	**0.063**		0.0074	0.0026	mg/Kg	☼	08/13/17 12:17	08/14/17 10:32	1
Nitrobenzene	ND		74	2.8	ug/Kg	☼	08/13/17 12:17	08/14/17 10:32	1
Pentachlorophenol	ND		0.19	0.070	mg/Kg	☼	08/13/17 12:17	08/14/17 10:32	1
Phenanthrene	**0.15**		0.0074	0.0031	mg/Kg	☼	08/13/17 12:17	08/14/17 10:32	1
Phenol	ND		0.036	0.0050	mg/Kg	☼	08/13/17 12:17	08/14/17 10:32	1
Pyrene	**0.39**		0.0074	0.0033	mg/Kg	☼	08/13/17 12:17	08/14/17 10:32	1
Pyridine	ND		36	3.5	ug/Kg	☼	08/13/17 12:17	08/14/17 10:32	1
2,4,5-Trichlorophenol	ND		36	3.5	ug/Kg	☼	08/13/17 12:17	08/14/17 10:32	1
2,4,6-Trichlorophenol	ND		36	3.2	ug/Kg	☼	08/13/17 12:17	08/14/17 10:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*72*		*42 - 100*	*08/13/17 12:17*	*08/14/17 10:32*	*1*
2-Fluorophenol (Surr)	*57*		*21 - 107*	*08/13/17 12:17*	*08/14/17 10:32*	*1*
Nitrobenzene-d5 (Surr)	*68*		*35 - 109*	*08/13/17 12:17*	*08/14/17 10:32*	*1*
Phenol-d5 (Surr)	*60*		*29 - 105*	*08/13/17 12:17*	*08/14/17 10:32*	*1*
Terphenyl-d14 (Surr)	*61*		*36 - 113*	*08/13/17 12:17*	*08/14/17 10:32*	*1*
2,4,6-Tribromophenol (Surr)	*72*		*20 - 134*	*08/13/17 12:17*	*08/14/17 10:32*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.018	0.0098	mg/Kg	☼	08/14/17 03:48	08/15/17 00:45	1
PCB-1221	ND		0.018	0.0095	mg/Kg	☼	08/14/17 03:48	08/15/17 00:45	1
PCB-1232	ND		0.018	0.0073	mg/Kg	☼	08/14/17 03:48	08/15/17 00:45	1
PCB-1242	ND		0.018	0.015	mg/Kg	☼	08/14/17 03:48	08/15/17 00:45	1
PCB-1248	**1.6**		0.018	0.0088	mg/Kg	☼	08/14/17 03:48	08/15/17 00:45	1
PCB-1254	**1.2**		0.018	0.0081	mg/Kg	☼	08/14/17 03:48	08/15/17 00:45	1
PCB-1260	**0.19**		0.018	0.012	mg/Kg	☼	08/14/17 03:48	08/15/17 00:45	1
PCB-1262	ND		0.018	0.013	mg/Kg	☼	08/14/17 03:48	08/15/17 00:45	1
PCB-1268	ND		0.018	0.0056	mg/Kg	☼	08/14/17 03:48	08/15/17 00:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*78*		*23 - 150*	*08/14/17 03:48*	*08/15/17 00:45*	*1*
DCB Decachlorobiphenyl (Surr)	*82*		*23 - 150*	*08/14/17 03:48*	*08/15/17 00:45*	*1*
Tetrachloro-m-xylene (Surr)	*79*		*27 - 138*	*08/14/17 03:48*	*08/15/17 00:45*	*1*
Tetrachloro-m-xylene (Surr)	*67*		*27 - 138*	*08/14/17 03:48*	*08/15/17 00:45*	*1*

Client Sample ID: WB2-3, S3, C 08.02.17 — Lab Sample ID: 180-68875-13

Date Collected: 08/02/17 16:20 — **Matrix: Solid**
Date Received: 08/03/17 08:50 — **Percent Solids: 90.6**

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.8		1.1	0.51	mg/Kg	☼	08/08/17 14:03	08/10/17 12:19	1
Barium	91		23	6.2	mg/Kg	☼	08/08/17 14:03	08/10/17 12:19	1
Beryllium	0.39	J	0.46	0.12	mg/Kg	☼	08/08/17 14:03	08/10/17 12:19	1
Cadmium	0.17	J	0.57	0.13	mg/Kg	☼	08/08/17 14:03	08/10/17 12:19	1
Chromium	10		0.57	0.15	mg/Kg	☼	08/08/17 14:03	08/10/17 12:19	1
Copper	36		2.9	0.88	mg/Kg	☼	08/08/17 14:03	08/10/17 12:19	1
Lead	40		1.1	0.38	mg/Kg	☼	08/08/17 14:03	08/10/17 12:19	1
Manganese	420		1.7	0.47	mg/Kg	☼	08/08/17 14:03	08/10/17 12:19	1
Nickel	20		4.6	1.0	mg/Kg	☼	08/08/17 14:03	08/10/17 12:19	1
Selenium	ND		1.1	0.46	mg/Kg	☼	08/08/17 14:03	08/10/17 12:19	1
Silver	ND		0.57	0.19	mg/Kg	☼	08/08/17 14:03	08/10/17 12:19	1
Zinc	66		2.3	1.2	mg/Kg	☼	08/08/17 14:03	08/10/17 12:19	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.094		0.036	0.0082	mg/Kg	☼	08/08/17 17:30	08/09/17 11:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.4		0.1	0.1	%			08/04/17 11:05	1
Percent Solids	90.6		0.1	0.1	%			08/04/17 11:05	1
Cyanide, Total	0.21	J	0.55	0.17	mg/Kg	☼	08/07/17 11:25	08/07/17 15:40	1

Client Sample ID: DUP 24 — Lab Sample ID: 180-68875-14

Date Collected: 08/02/17 00:00 — **Matrix: Solid**
Date Received: 08/03/17 08:50 — **Percent Solids: 88.6**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.019	0.0031	mg/Kg	☼	08/04/17 05:28	08/04/17 17:22	1
Benzene	ND		0.0049	0.0019	mg/Kg	☼	08/04/17 05:28	08/04/17 17:22	1
2-Butanone (MEK)	ND		0.0049	0.0028	mg/Kg	☼	08/04/17 05:28	08/04/17 17:22	1
Carbon tetrachloride	ND		0.0049	0.0032	mg/Kg	☼	08/04/17 05:28	08/04/17 17:22	1
Chlorobenzene	ND		0.0049	0.0015	mg/Kg	☼	08/04/17 05:28	08/04/17 17:22	1
Chloroform	ND		0.0049	0.0021	mg/Kg	☼	08/04/17 05:28	08/04/17 17:22	1
cis-1,2-Dichloroethene	ND		0.0049	0.0015	mg/Kg	☼	08/04/17 05:28	08/04/17 17:22	1
1,2-Dichlorobenzene	ND		0.0049	0.0039	mg/Kg	☼	08/04/17 05:28	08/04/17 17:22	1
1,3-Dichlorobenzene	ND		0.0049	0.0015	mg/Kg	☼	08/04/17 05:28	08/04/17 17:22	1
1,4-Dichlorobenzene	ND		0.0049	0.00099	mg/Kg	☼	08/04/17 05:28	08/04/17 17:22	1
1,1-Dichloroethane	ND		0.0049	0.0018	mg/Kg	☼	08/04/17 05:28	08/04/17 17:22	1
1,2-Dichloroethane	ND		0.0049	0.0014	mg/Kg	☼	08/04/17 05:28	08/04/17 17:22	1
1,1-Dichloroethene	ND		0.0049	0.0028	mg/Kg	☼	08/04/17 05:28	08/04/17 17:22	1
Ethylbenzene	ND		0.0049	0.0021	mg/Kg	☼	08/04/17 05:28	08/04/17 17:22	1
Methylene Chloride	ND		0.0049	0.0023	mg/Kg	☼	08/04/17 05:28	08/04/17 17:22	1
Methyl tert-butyl ether	ND		0.0049	0.0036	mg/Kg	☼	08/04/17 05:28	08/04/17 17:22	1
n-Butylbenzene	ND		0.0049	0.0037	mg/Kg	☼	08/04/17 05:28	08/04/17 17:22	1
N-Propylbenzene	ND		0.0049	0.0020	mg/Kg	☼	08/04/17 05:28	08/04/17 17:22	1
sec-Butylbenzene	ND		0.0049	0.0024	mg/Kg	☼	08/04/17 05:28	08/04/17 17:22	1
tert-Butylbenzene	ND		0.0049	0.0018	mg/Kg	☼	08/04/17 05:28	08/04/17 17:22	1
Tetrachloroethene	ND		0.0049	0.0019	mg/Kg	☼	08/04/17 05:28	08/04/17 17:22	1

Client Sample ID: DUP 24 — Lab Sample ID: 180-68875-14

Date Collected: 08/02/17 00:00 — **Matrix: Solid**
Date Received: 08/03/17 08:50 — **Percent Solids: 88.6**

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		0.0049	0.0016	mg/Kg	☼	08/04/17 05:28	08/04/17 17:22	1
trans-1,2-Dichloroethene	ND		0.0049	0.0025	mg/Kg	☼	08/04/17 05:28	08/04/17 17:22	1
1,1,1-Trichloroethane	ND		0.0049	0.0024	mg/Kg	☼	08/04/17 05:28	08/04/17 17:22	1
Trichloroethene	ND		0.0049	0.0015	mg/Kg	☼	08/04/17 05:28	08/04/17 17:22	1
1,2,4-Trimethylbenzene	ND		0.0049	0.0013	mg/Kg	☼	08/04/17 05:28	08/04/17 17:22	1
1,3,5-Trimethylbenzene	ND		0.0049	0.0017	mg/Kg	☼	08/04/17 05:28	08/04/17 17:22	1
Vinyl chloride	ND		0.0049	0.0036	mg/Kg	☼	08/04/17 05:28	08/04/17 17:22	1
Xylenes, Total	ND		0.0097	0.0042	mg/Kg	☼	08/04/17 05:28	08/04/17 17:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*63 - 120*	*08/04/17 05:28*	*08/04/17 17:22*	*1*
Dibromofluoromethane (Surr)	*103*		*68 - 121*	*08/04/17 05:28*	*08/04/17 17:22*	*1*
1,2-Dichloroethane-d4 (Surr)	*108*		*52 - 124*	*08/04/17 05:28*	*08/04/17 17:22*	*1*
Toluene-d8 (Surr)	*113*		*72 - 127*	*08/04/17 05:28*	*08/04/17 17:22*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**11.4**		0.1	0.1	%			08/04/17 11:05	1
Percent Solids	**88.6**		0.1	0.1	%			08/04/17 11:05	1

Client Sample ID: TRIP BLANK #1 — Lab Sample ID: 180-68875-15

Date Collected: 08/02/17 00:00 — **Matrix: Water**
Date Received: 08/03/17 08:50

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		5.0	3.1	ug/L			08/07/17 05:42	1
Benzene	ND		1.0	0.18	ug/L			08/07/17 05:42	1
2-Butanone (MEK)	ND		5.0	2.6	ug/L			08/07/17 05:42	1
Carbon tetrachloride	ND		1.0	0.56	ug/L			08/07/17 05:42	1
Chlorobenzene	ND		1.0	0.15	ug/L			08/07/17 05:42	1
Chloroform	ND		1.0	0.27	ug/L			08/07/17 05:42	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			08/07/17 05:42	1
1,2-Dichlorobenzene	ND		1.0	0.23	ug/L			08/07/17 05:42	1
1,3-Dichlorobenzene	ND		1.0	0.21	ug/L			08/07/17 05:42	1
1,4-Dichlorobenzene	ND		1.0	0.24	ug/L			08/07/17 05:42	1
1,1-Dichloroethane	ND		1.0	0.34	ug/L			08/07/17 05:42	1
1,2-Dichloroethane	ND		1.0	0.24	ug/L			08/07/17 05:42	1
1,1-Dichloroethene	ND		1.0	0.32	ug/L			08/07/17 05:42	1
Ethylbenzene	ND		1.0	0.25	ug/L			08/07/17 05:42	1
Methylene Chloride	ND		1.0	0.94	ug/L			08/07/17 05:42	1
Methyl tert-butyl ether	ND		1.0	0.20	ug/L			08/07/17 05:42	1
n-Butylbenzene	ND		1.0	0.22	ug/L			08/07/17 05:42	1
N-Propylbenzene	ND		1.0	0.20	ug/L			08/07/17 05:42	1
sec-Butylbenzene	ND		1.0	0.22	ug/L			08/07/17 05:42	1
tert-Butylbenzene	ND		1.0	0.17	ug/L			08/07/17 05:42	1
Tetrachloroethene	ND		1.0	0.24	ug/L			08/07/17 05:42	1
Toluene	ND		1.0	0.16	ug/L			08/07/17 05:42	1
trans-1,2-Dichloroethene	ND		1.0	0.20	ug/L			08/07/17 05:42	1
1,1,1-Trichloroethane	ND		1.0	0.27	ug/L			08/07/17 05:42	1

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68875-2

Client Sample ID: TRIP BLANK #1
Date Collected: 08/02/17 00:00
Date Received: 08/03/17 08:50

Lab Sample ID: 180-68875-15
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	ND		1.0	0.20	ug/L			08/07/17 05:42	1
1,2,4-Trimethylbenzene	ND		1.0	0.18	ug/L			08/07/17 05:42	1
1,3,5-Trimethylbenzene	ND		1.0	0.17	ug/L			08/07/17 05:42	1
Vinyl chloride	ND		1.0	0.17	ug/L			08/07/17 05:42	1
Xylenes, Total	ND		2.0	0.27	ug/L			08/07/17 05:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*72 - 120*		*08/07/17 05:42*	*1*
Dibromofluoromethane (Surr)	*94*		*77 - 127*		*08/07/17 05:42*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*72 - 134*		*08/07/17 05:42*	*1*
Toluene-d8 (Surr)	*89*		*80 - 120*		*08/07/17 05:42*	*1*

Method: 8260C - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 180-219231/5
Matrix: Water
Analysis Batch: 219231

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		5.0	3.1	ug/L			08/07/17 03:30	1
Benzene	ND		1.0	0.18	ug/L			08/07/17 03:30	1
2-Butanone (MEK)	ND		5.0	2.6	ug/L			08/07/17 03:30	1
Carbon tetrachloride	ND		1.0	0.56	ug/L			08/07/17 03:30	1
Chlorobenzene	ND		1.0	0.15	ug/L			08/07/17 03:30	1
Chloroform	ND		1.0	0.27	ug/L			08/07/17 03:30	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			08/07/17 03:30	1
1,2-Dichlorobenzene	ND		1.0	0.23	ug/L			08/07/17 03:30	1
1,3-Dichlorobenzene	ND		1.0	0.21	ug/L			08/07/17 03:30	1
1,4-Dichlorobenzene	ND		1.0	0.24	ug/L			08/07/17 03:30	1
1,1-Dichloroethane	ND		1.0	0.34	ug/L			08/07/17 03:30	1
1,2-Dichloroethane	ND		1.0	0.24	ug/L			08/07/17 03:30	1
1,1-Dichloroethene	ND		1.0	0.32	ug/L			08/07/17 03:30	1
Ethylbenzene	ND		1.0	0.25	ug/L			08/07/17 03:30	1
Methylene Chloride	ND		1.0	0.94	ug/L			08/07/17 03:30	1
Methyl tert-butyl ether	ND		1.0	0.20	ug/L			08/07/17 03:30	1
n-Butylbenzene	ND		1.0	0.22	ug/L			08/07/17 03:30	1
N-Propylbenzene	ND		1.0	0.20	ug/L			08/07/17 03:30	1
sec-Butylbenzene	ND		1.0	0.22	ug/L			08/07/17 03:30	1
tert-Butylbenzene	ND		1.0	0.17	ug/L			08/07/17 03:30	1
Tetrachloroethene	ND		1.0	0.24	ug/L			08/07/17 03:30	1
Toluene	ND		1.0	0.16	ug/L			08/07/17 03:30	1
trans-1,2-Dichloroethene	ND		1.0	0.20	ug/L			08/07/17 03:30	1
1,1,1-Trichloroethane	ND		1.0	0.27	ug/L			08/07/17 03:30	1
Trichloroethene	ND		1.0	0.20	ug/L			08/07/17 03:30	1
1,2,4-Trimethylbenzene	ND		1.0	0.18	ug/L			08/07/17 03:30	1
1,3,5-Trimethylbenzene	ND		1.0	0.17	ug/L			08/07/17 03:30	1
Vinyl chloride	ND		1.0	0.17	ug/L			08/07/17 03:30	1
Xylenes, Total	ND		2.0	0.27	ug/L			08/07/17 03:30	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*72 - 120*		*08/07/17 03:30*	*1*
Dibromofluoromethane (Surr)	*92*		*77 - 127*		*08/07/17 03:30*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*72 - 134*		*08/07/17 03:30*	*1*
Toluene-d8 (Surr)	*88*		*80 - 120*		*08/07/17 03:30*	*1*

Lab Sample ID: LCS 180-219231/3
Matrix: Water
Analysis Batch: 219231

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	20.0	15.6		ug/L		78	10 - 150
Benzene	10.0	9.27		ug/L		93	80 - 121
2-Butanone (MEK)	20.0	16.3		ug/L		81	41 - 150
Carbon tetrachloride	10.0	9.02		ug/L		90	59 - 145
Chlorobenzene	10.0	9.49		ug/L		95	80 - 120
Chloroform	10.0	9.21		ug/L		92	78 - 122
cis-1,2-Dichloroethene	10.0	8.99		ug/L		90	80 - 120

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 180-219231/3
Matrix: Water
Analysis Batch: 219231

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichlorobenzene	10.0	8.84		ug/L		88	80 - 120
1,3-Dichlorobenzene	10.0	8.72		ug/L		87	80 - 120
1,4-Dichlorobenzene	10.0	8.77		ug/L		88	80 - 120
1,1-Dichloroethane	10.0	9.48		ug/L		95	76 - 126
1,2-Dichloroethane	10.0	9.31		ug/L		93	72 - 126
1,1-Dichloroethene	10.0	9.62		ug/L		96	71 - 122
Ethylbenzene	10.0	9.41		ug/L		94	80 - 123
Methylene Chloride	10.0	9.46		ug/L		95	71 - 129
Methyl tert-butyl ether	10.0	9.70		ug/L		97	68 - 124
n-Butylbenzene	10.0	9.28		ug/L		93	75 - 120
N-Propylbenzene	10.0	8.95		ug/L		90	78 - 121
sec-Butylbenzene	10.0	9.51		ug/L		95	80 - 121
tert-Butylbenzene	10.0	9.22		ug/L		92	79 - 120
Tetrachloroethene	10.0	9.34		ug/L		93	80 - 122
Toluene	10.0	10.0		ug/L		100	80 - 125
trans-1,2-Dichloroethene	10.0	9.34		ug/L		93	80 - 121
1,1,1-Trichloroethane	10.0	9.20		ug/L		92	57 - 128
Trichloroethene	10.0	8.92		ug/L		89	79 - 120
1,2,4-Trimethylbenzene	10.0	8.95		ug/L		90	80 - 120
1,3,5-Trimethylbenzene	10.0	9.22		ug/L		92	80 - 122
Vinyl chloride	10.0	10.2		ug/L		102	61 - 138
Xylenes, Total	20.0	19.5		ug/L		97	80 - 123

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*72 - 120*
Dibromofluoromethane (Surr)	*91*		*77 - 127*
1,2-Dichloroethane-d4 (Surr)	*95*		*72 - 134*
Toluene-d8 (Surr)	*101*		*80 - 120*

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 180-219096/9
Matrix: Solid
Analysis Batch: 219096

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.020	0.0032	mg/Kg			08/04/17 10:28	1
Benzene	ND		0.0050	0.0020	mg/Kg			08/04/17 10:28	1
2-Butanone (MEK)	ND		0.0050	0.0029	mg/Kg			08/04/17 10:28	1
Carbon tetrachloride	ND		0.0050	0.0033	mg/Kg			08/04/17 10:28	1
Chlorobenzene	ND		0.0050	0.0016	mg/Kg			08/04/17 10:28	1
Chloroform	ND		0.0050	0.0021	mg/Kg			08/04/17 10:28	1
cis-1,2-Dichloroethene	ND		0.0050	0.0016	mg/Kg			08/04/17 10:28	1
1,2-Dichlorobenzene	ND		0.0050	0.0040	mg/Kg			08/04/17 10:28	1
1,3-Dichlorobenzene	ND		0.0050	0.0016	mg/Kg			08/04/17 10:28	1
1,4-Dichlorobenzene	ND		0.0050	0.0010	mg/Kg			08/04/17 10:28	1
1,1-Dichloroethane	ND		0.0050	0.0018	mg/Kg			08/04/17 10:28	1
1,2-Dichloroethane	ND		0.0050	0.0015	mg/Kg			08/04/17 10:28	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 180-219096/9
Matrix: Solid
Analysis Batch: 219096

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		0.0050	0.0029	mg/Kg			08/04/17 10:28	1
Ethylbenzene	ND		0.0050	0.0022	mg/Kg			08/04/17 10:28	1
Methylene Chloride	ND		0.0050	0.0024	mg/Kg			08/04/17 10:28	1
Methyl tert-butyl ether	ND		0.0050	0.0037	mg/Kg			08/04/17 10:28	1
n-Butylbenzene	ND		0.0050	0.0038	mg/Kg			08/04/17 10:28	1
N-Propylbenzene	ND		0.0050	0.0021	mg/Kg			08/04/17 10:28	1
sec-Butylbenzene	ND		0.0050	0.0024	mg/Kg			08/04/17 10:28	1
tert-Butylbenzene	ND		0.0050	0.0018	mg/Kg			08/04/17 10:28	1
Tetrachloroethene	ND		0.0050	0.0020	mg/Kg			08/04/17 10:28	1
Toluene	ND		0.0050	0.0017	mg/Kg			08/04/17 10:28	1
trans-1,2-Dichloroethene	ND		0.0050	0.0025	mg/Kg			08/04/17 10:28	1
1,1,1-Trichloroethane	ND		0.0050	0.0025	mg/Kg			08/04/17 10:28	1
Trichloroethene	ND		0.0050	0.0015	mg/Kg			08/04/17 10:28	1
1,2,4-Trimethylbenzene	ND		0.0050	0.0013	mg/Kg			08/04/17 10:28	1
1,3,5-Trimethylbenzene	ND		0.0050	0.0017	mg/Kg			08/04/17 10:28	1
Vinyl chloride	ND		0.0050	0.0037	mg/Kg			08/04/17 10:28	1
Xylenes, Total	ND		0.010	0.0043	mg/Kg			08/04/17 10:28	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*63 - 120*		*08/04/17 10:28*	*1*
Dibromofluoromethane (Surr)	*98*		*68 - 121*		*08/04/17 10:28*	*1*
1,2-Dichloroethane-d4 (Surr)	*116*		*52 - 124*		*08/04/17 10:28*	*1*
Toluene-d8 (Surr)	*100*		*72 - 127*		*08/04/17 10:28*	*1*

Lab Sample ID: LCS 180-219096/4
Matrix: Solid
Analysis Batch: 219096

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0400	0.0358		mg/Kg		90	20 - 150
Benzene	0.0400	0.0396		mg/Kg		99	77 - 120
2-Butanone (MEK)	0.0400	0.0326		mg/Kg		82	35 - 149
Carbon tetrachloride	0.0400	0.0455		mg/Kg		114	69 - 122
Chlorobenzene	0.0400	0.0381		mg/Kg		95	79 - 120
Chloroform	0.0400	0.0430		mg/Kg		107	72 - 120
cis-1,2-Dichloroethene	0.0400	0.0400		mg/Kg		100	80 - 118
1,2-Dichlorobenzene	0.0400	0.0376		mg/Kg		94	71 - 124
1,3-Dichlorobenzene	0.0400	0.0369		mg/Kg		92	75 - 118
1,4-Dichlorobenzene	0.0400	0.0377		mg/Kg		94	77 - 116
1,1-Dichloroethane	0.0400	0.0434		mg/Kg		109	66 - 124
1,2-Dichloroethane	0.0400	0.0474		mg/Kg		119	61 - 127
1,1-Dichloroethene	0.0400	0.0408		mg/Kg		102	59 - 129
Ethylbenzene	0.0400	0.0385		mg/Kg		96	78 - 125
Methylene Chloride	0.0400	0.0428		mg/Kg		107	58 - 127
Methyl tert-butyl ether	0.0400	0.0449		mg/Kg		112	48 - 132
n-Butylbenzene	0.0400	0.0434		mg/Kg		109	59 - 145
N-Propylbenzene	0.0400	0.0396		mg/Kg		99	80 - 120
sec-Butylbenzene	0.0400	0.0417		mg/Kg		104	70 - 130

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 180-219096/4
Matrix: Solid
Analysis Batch: 219096

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
tert-Butylbenzene	0.0400	0.0405		mg/Kg		101	74 - 133
Tetrachloroethene	0.0400	0.0347		mg/Kg		87	78 - 129
Toluene	0.0400	0.0387		mg/Kg		97	78 - 124
trans-1,2-Dichloroethene	0.0400	0.0432		mg/Kg		108	77 - 121
1,1,1-Trichloroethane	0.0400	0.0464		mg/Kg		116	67 - 126
Trichloroethene	0.0400	0.0374		mg/Kg		94	76 - 119
1,2,4-Trimethylbenzene	0.0400	0.0405		mg/Kg		101	80 - 121
1,3,5-Trimethylbenzene	0.0400	0.0406		mg/Kg		102	68 - 133
Vinyl chloride	0.0400	0.0384		mg/Kg		96	63 - 124
Xylenes, Total	0.0800	0.0762		mg/Kg		95	83 - 126

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*63 - 120*
Dibromofluoromethane (Surr)	*99*		*68 - 121*
1,2-Dichloroethane-d4 (Surr)	*114*		*52 - 124*
Toluene-d8 (Surr)	*98*		*72 - 127*

Lab Sample ID: MB 180-219248/8
Matrix: Solid
Analysis Batch: 219248

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.020	0.0032	mg/Kg			08/07/17 08:39	1
Benzene	ND		0.0050	0.0020	mg/Kg			08/07/17 08:39	1
2-Butanone (MEK)	ND		0.0050	0.0029	mg/Kg			08/07/17 08:39	1
Carbon tetrachloride	ND		0.0050	0.0033	mg/Kg			08/07/17 08:39	1
Chlorobenzene	ND		0.0050	0.0016	mg/Kg			08/07/17 08:39	1
Chloroform	ND		0.0050	0.0021	mg/Kg			08/07/17 08:39	1
cis-1,2-Dichloroethene	ND		0.0050	0.0016	mg/Kg			08/07/17 08:39	1
1,2-Dichlorobenzene	ND		0.0050	0.0040	mg/Kg			08/07/17 08:39	1
1,3-Dichlorobenzene	ND		0.0050	0.0016	mg/Kg			08/07/17 08:39	1
1,4-Dichlorobenzene	ND		0.0050	0.0010	mg/Kg			08/07/17 08:39	1
1,1-Dichloroethane	ND		0.0050	0.0018	mg/Kg			08/07/17 08:39	1
1,2-Dichloroethane	ND		0.0050	0.0015	mg/Kg			08/07/17 08:39	1
1,1-Dichloroethene	ND		0.0050	0.0029	mg/Kg			08/07/17 08:39	1
Ethylbenzene	ND		0.0050	0.0022	mg/Kg			08/07/17 08:39	1
Methylene Chloride	ND		0.0050	0.0024	mg/Kg			08/07/17 08:39	1
Methyl tert-butyl ether	ND		0.0050	0.0037	mg/Kg			08/07/17 08:39	1
n-Butylbenzene	ND		0.0050	0.0038	mg/Kg			08/07/17 08:39	1
N-Propylbenzene	ND		0.0050	0.0021	mg/Kg			08/07/17 08:39	1
sec-Butylbenzene	ND		0.0050	0.0024	mg/Kg			08/07/17 08:39	1
tert-Butylbenzene	ND		0.0050	0.0018	mg/Kg			08/07/17 08:39	1
Tetrachloroethene	ND		0.0050	0.0020	mg/Kg			08/07/17 08:39	1
Toluene	ND		0.0050	0.0017	mg/Kg			08/07/17 08:39	1
trans-1,2-Dichloroethene	ND		0.0050	0.0025	mg/Kg			08/07/17 08:39	1
1,1,1-Trichloroethane	ND		0.0050	0.0025	mg/Kg			08/07/17 08:39	1
Trichloroethene	ND		0.0050	0.0015	mg/Kg			08/07/17 08:39	1
1,2,4-Trimethylbenzene	ND		0.0050	0.0013	mg/Kg			08/07/17 08:39	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 180-219248/8
Matrix: Solid
Analysis Batch: 219248

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	ND		0.0050	0.0017	mg/Kg			08/07/17 08:39	1
Vinyl chloride	ND		0.0050	0.0037	mg/Kg			08/07/17 08:39	1
Xylenes, Total	ND		0.010	0.0043	mg/Kg			08/07/17 08:39	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*63 - 120*		*08/07/17 08:39*	*1*
Dibromofluoromethane (Surr)	*100*		*68 - 121*		*08/07/17 08:39*	*1*
1,2-Dichloroethane-d4 (Surr)	*120*		*52 - 124*		*08/07/17 08:39*	*1*
Toluene-d8 (Surr)	*100*		*72 - 127*		*08/07/17 08:39*	*1*

Lab Sample ID: LCS 180-219248/3
Matrix: Solid
Analysis Batch: 219248

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0400	0.0353		mg/Kg		88	20 - 150
Benzene	0.0400	0.0400		mg/Kg		100	77 - 120
2-Butanone (MEK)	0.0400	0.0321		mg/Kg		80	35 - 149
Carbon tetrachloride	0.0400	0.0479		mg/Kg		120	69 - 122
Chlorobenzene	0.0400	0.0385		mg/Kg		96	79 - 120
Chloroform	0.0400	0.0433		mg/Kg		108	72 - 120
cis-1,2-Dichloroethene	0.0400	0.0399		mg/Kg		100	80 - 118
1,2-Dichlorobenzene	0.0400	0.0362		mg/Kg		91	71 - 124
1,3-Dichlorobenzene	0.0400	0.0361		mg/Kg		90	75 - 118
1,4-Dichlorobenzene	0.0400	0.0366		mg/Kg		92	77 - 116
1,1-Dichloroethane	0.0400	0.0438		mg/Kg		109	66 - 124
1,2-Dichloroethane	0.0400	0.0464		mg/Kg		116	61 - 127
1,1-Dichloroethene	0.0400	0.0428		mg/Kg		107	59 - 129
Ethylbenzene	0.0400	0.0378		mg/Kg		95	78 - 125
Methylene Chloride	0.0400	0.0426		mg/Kg		106	58 - 127
Methyl tert-butyl ether	0.0400	0.0438		mg/Kg		109	48 - 132
n-Butylbenzene	0.0400	0.0434		mg/Kg		109	59 - 145
N-Propylbenzene	0.0400	0.0381		mg/Kg		95	80 - 120
sec-Butylbenzene	0.0400	0.0410		mg/Kg		103	70 - 130
tert-Butylbenzene	0.0400	0.0401		mg/Kg		100	74 - 133
Tetrachloroethene	0.0400	0.0353		mg/Kg		88	78 - 129
Toluene	0.0400	0.0393		mg/Kg		98	78 - 124
trans-1,2-Dichloroethene	0.0400	0.0434		mg/Kg		108	77 - 121
1,1,1-Trichloroethane	0.0400	0.0497		mg/Kg		124	67 - 126
Trichloroethene	0.0400	0.0371		mg/Kg		93	76 - 119
1,2,4-Trimethylbenzene	0.0400	0.0396		mg/Kg		99	80 - 121
1,3,5-Trimethylbenzene	0.0400	0.0396		mg/Kg		99	68 - 133
Vinyl chloride	0.0400	0.0398		mg/Kg		99	63 - 124
Xylenes, Total	0.0800	0.0760		mg/Kg		95	83 - 126

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*107*		*63 - 120*

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 180-219248/3
Matrix: Solid
Analysis Batch: 219248

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Dibromofluoromethane (Surr)	*104*		*68 - 121*
1,2-Dichloroethane-d4 (Surr)	*117*		*52 - 124*
Toluene-d8 (Surr)	*103*		*72 - 127*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Lab Sample ID: MB 180-219916/1-A
Matrix: Solid
Analysis Batch: 219952

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 219916

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0034	0.0011	mg/Kg		08/13/17 12:17	08/14/17 09:39	1
Acenaphthylene	ND		0.0034	0.0011	mg/Kg		08/13/17 12:17	08/14/17 09:39	1
Anthracene	ND		0.0034	0.0012	mg/Kg		08/13/17 12:17	08/14/17 09:39	1
Benzo[a]anthracene	ND		0.0034	0.0013	mg/Kg		08/13/17 12:17	08/14/17 09:39	1
Benzo[a]pyrene	ND		0.0034	0.0014	mg/Kg		08/13/17 12:17	08/14/17 09:39	1
Benzo[b]fluoranthene	ND		0.0034	0.0014	mg/Kg		08/13/17 12:17	08/14/17 09:39	1
Benzo[g,h,i]perylene	ND		0.0034	0.0014	mg/Kg		08/13/17 12:17	08/14/17 09:39	1
Benzo[k]fluoranthene	ND		0.0034	0.0012	mg/Kg		08/13/17 12:17	08/14/17 09:39	1
Chrysene	ND		0.0034	0.0013	mg/Kg		08/13/17 12:17	08/14/17 09:39	1
Dibenz(a,h)anthracene	ND		0.0034	0.0014	mg/Kg		08/13/17 12:17	08/14/17 09:39	1
Dibenzofuran	ND		0.017	0.0013	mg/Kg		08/13/17 12:17	08/14/17 09:39	1
2,4-Dinitrotoluene	ND		17	2.2	ug/Kg		08/13/17 12:17	08/14/17 09:39	1
1,4-Dioxane	ND		0.033	0.0025	mg/Kg		08/13/17 12:17	08/14/17 09:39	1
Fluoranthene	ND		0.0034	0.0013	mg/Kg		08/13/17 12:17	08/14/17 09:39	1
Fluorene	ND		0.0034	0.0012	mg/Kg		08/13/17 12:17	08/14/17 09:39	1
Hexachlorobenzene	ND		0.0034	0.0013	mg/Kg		08/13/17 12:17	08/14/17 09:39	1
Hexachlorobutadiene	ND		3.4	1.1	ug/Kg		08/13/17 12:17	08/14/17 09:39	1
Hexachloroethane	ND		17	1.2	ug/Kg		08/13/17 12:17	08/14/17 09:39	1
Indeno[1,2,3-cd]pyrene	ND		0.0034	0.0013	mg/Kg		08/13/17 12:17	08/14/17 09:39	1
2-Methylphenol	ND		0.017	0.0015	mg/Kg		08/13/17 12:17	08/14/17 09:39	1
Methylphenol, 3 & 4	ND		0.017	0.0015	mg/Kg		08/13/17 12:17	08/14/17 09:39	1
Naphthalene	ND		0.0034	0.0012	mg/Kg		08/13/17 12:17	08/14/17 09:39	1
Nitrobenzene	ND		33	1.3	ug/Kg		08/13/17 12:17	08/14/17 09:39	1
Pentachlorophenol	ND		0.085	0.032	mg/Kg		08/13/17 12:17	08/14/17 09:39	1
Phenanthrene	ND		0.0034	0.0014	mg/Kg		08/13/17 12:17	08/14/17 09:39	1
Phenol	ND		0.017	0.0023	mg/Kg		08/13/17 12:17	08/14/17 09:39	1
Pyrene	ND		0.0034	0.0015	mg/Kg		08/13/17 12:17	08/14/17 09:39	1
Pyridine	ND		17	1.6	ug/Kg		08/13/17 12:17	08/14/17 09:39	1
2,4,5-Trichlorophenol	ND		17	1.6	ug/Kg		08/13/17 12:17	08/14/17 09:39	1
2,4,6-Trichlorophenol	ND		17	1.5	ug/Kg		08/13/17 12:17	08/14/17 09:39	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	*78*		*42 - 100*	*08/13/17 12:17*	*08/14/17 09:39*	*1*
2-Fluorophenol (Surr)	*75*		*21 - 107*	*08/13/17 12:17*	*08/14/17 09:39*	*1*
Nitrobenzene-d5 (Surr)	*77*		*35 - 109*	*08/13/17 12:17*	*08/14/17 09:39*	*1*
Phenol-d5 (Surr)	*77*		*29 - 105*	*08/13/17 12:17*	*08/14/17 09:39*	*1*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: MB 180-219916/1-A
Matrix: Solid
Analysis Batch: 219952

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 219916

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14 (Surr)	*81*		*36 - 113*	*08/13/17 12:17*	*08/14/17 09:39*	*1*
2,4,6-Tribromophenol (Surr)	*75*		*20 - 134*	*08/13/17 12:17*	*08/14/17 09:39*	*1*

Lab Sample ID: LCS 180-219916/2-A
Matrix: Solid
Analysis Batch: 219952

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 219916

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	0.333	0.238		mg/Kg		71	39 - 100
Acenaphthylene	0.333	0.240		mg/Kg		72	42 - 100
Anthracene	0.333	0.248		mg/Kg		74	43 - 100
Benzo[a]anthracene	0.333	0.240		mg/Kg		72	43 - 100
Benzo[a]pyrene	0.333	0.242		mg/Kg		72	43 - 100
Benzo[b]fluoranthene	0.333	0.230		mg/Kg		69	40 - 100
Benzo[g,h,i]perylene	0.333	0.230		mg/Kg		69	41 - 102
Benzo[k]fluoranthene	0.333	0.242		mg/Kg		73	44 - 100
Chrysene	0.333	0.242		mg/Kg		73	44 - 100
Dibenz(a,h)anthracene	0.333	0.234		mg/Kg		70	40 - 104
Dibenzofuran	0.333	0.243		mg/Kg		73	42 - 100
2,4-Dinitrotoluene	333	263		ug/Kg		79	42 - 110
1,4-Dioxane	0.333	0.231		mg/Kg		69	19 - 107
Fluoranthene	0.333	0.255		mg/Kg		77	41 - 104
Fluorene	0.333	0.243		mg/Kg		73	41 - 100
Hexachlorobenzene	0.333	0.242		mg/Kg		73	43 - 100
Hexachlorobutadiene	333	233		ug/Kg		70	35 - 100
Hexachloroethane	333	231		ug/Kg		69	35 - 100
Indeno[1,2,3-cd]pyrene	0.333	0.233		mg/Kg		70	41 - 104
2-Methylphenol	0.333	0.241		mg/Kg		72	38 - 100
Methylphenol, 3 & 4	0.333	0.244		mg/Kg		73	40 - 100
Naphthalene	0.333	0.236		mg/Kg		71	38 - 100
Nitrobenzene	333	241		ug/Kg		72	34 - 100
Pentachlorophenol	0.667	0.364		mg/Kg		55	34 - 102
Phenanthrene	0.333	0.243		mg/Kg		73	41 - 100
Phenol	0.333	0.234		mg/Kg		70	36 - 100
Pyrene	0.333	0.241		mg/Kg		72	42 - 100
Pyridine	667	503		ug/Kg		75	25 - 119
2,4,5-Trichlorophenol	333	215		ug/Kg		65	42 - 100
2,4,6-Trichlorophenol	333	240		ug/Kg		72	41 - 103

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	*70*		*42 - 100*
2-Fluorophenol (Surr)	*68*		*21 - 107*
Nitrobenzene-d5 (Surr)	*71*		*35 - 109*
Phenol-d5 (Surr)	*69*		*29 - 105*
Terphenyl-d14 (Surr)	*71*		*36 - 113*
2,4,6-Tribromophenol (Surr)	*70*		*20 - 134*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 180-219927/1-A
Matrix: Solid
Analysis Batch: 220002

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 219927

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.017	0.0088	mg/Kg		08/14/17 03:48	08/14/17 22:04	1
PCB-1221	ND		0.017	0.0086	mg/Kg		08/14/17 03:48	08/14/17 22:04	1
PCB-1232	ND		0.017	0.0066	mg/Kg		08/14/17 03:48	08/14/17 22:04	1
PCB-1242	ND		0.017	0.013	mg/Kg		08/14/17 03:48	08/14/17 22:04	1
PCB-1248	ND		0.017	0.0080	mg/Kg		08/14/17 03:48	08/14/17 22:04	1
PCB-1254	ND		0.017	0.0073	mg/Kg		08/14/17 03:48	08/14/17 22:04	1
PCB-1260	ND		0.017	0.011	mg/Kg		08/14/17 03:48	08/14/17 22:04	1
PCB-1262	ND		0.017	0.012	mg/Kg		08/14/17 03:48	08/14/17 22:04	1
PCB-1268	ND		0.017	0.0051	mg/Kg		08/14/17 03:48	08/14/17 22:04	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*87*		*23 - 150*	*08/14/17 03:48*	*08/14/17 22:04*	*1*
DCB Decachlorobiphenyl (Surr)	*90*		*23 - 150*	*08/14/17 03:48*	*08/14/17 22:04*	*1*
Tetrachloro-m-xylene (Surr)	*94*		*27 - 138*	*08/14/17 03:48*	*08/14/17 22:04*	*1*
Tetrachloro-m-xylene (Surr)	*86*		*27 - 138*	*08/14/17 03:48*	*08/14/17 22:04*	*1*

Lab Sample ID: LCS 180-219927/4-A
Matrix: Solid
Analysis Batch: 220002

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 219927

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			1.33	1.24		mg/Kg		93	52 - 126		
PCB-1260			1.33	1.17		mg/Kg		88	50 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*90*		*23 - 150*
DCB Decachlorobiphenyl (Surr)	*95*		*23 - 150*
Tetrachloro-m-xylene (Surr)	*88*		*27 - 138*
Tetrachloro-m-xylene (Surr)	*76*		*27 - 138*

Lab Sample ID: LCSD 180-219927/5-A
Matrix: Solid
Analysis Batch: 220002

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 219927

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016			1.33	1.26		mg/Kg		94	52 - 126	2	20
PCB-1260			1.33	1.21		mg/Kg		91	50 - 130	4	21

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*86*		*23 - 150*
DCB Decachlorobiphenyl (Surr)	*89*		*23 - 150*
Tetrachloro-m-xylene (Surr)	*91*		*27 - 138*
Tetrachloro-m-xylene (Surr)	*81*		*27 - 138*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 180-219443/1-A
Matrix: Solid
Analysis Batch: 219711

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 219443

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		1.0	0.44	mg/Kg		08/08/17 14:03	08/10/17 12:09	1
Barium	ND		20	5.4	mg/Kg		08/08/17 14:03	08/10/17 12:09	1
Beryllium	ND		0.40	0.10	mg/Kg		08/08/17 14:03	08/10/17 12:09	1
Cadmium	ND		0.50	0.11	mg/Kg		08/08/17 14:03	08/10/17 12:09	1
Chromium	ND		0.50	0.13	mg/Kg		08/08/17 14:03	08/10/17 12:09	1
Copper	ND		2.5	0.77	mg/Kg		08/08/17 14:03	08/10/17 12:09	1
Lead	ND		1.0	0.33	mg/Kg		08/08/17 14:03	08/10/17 12:09	1
Manganese	ND		1.5	0.41	mg/Kg		08/08/17 14:03	08/10/17 12:09	1
Nickel	ND		4.0	0.90	mg/Kg		08/08/17 14:03	08/10/17 12:09	1
Selenium	ND		1.0	0.40	mg/Kg		08/08/17 14:03	08/10/17 12:09	1
Silver	ND		0.50	0.17	mg/Kg		08/08/17 14:03	08/10/17 12:09	1
Zinc	ND		2.0	1.0	mg/Kg		08/08/17 14:03	08/10/17 12:09	1

Lab Sample ID: LCS 180-219443/2-A
Matrix: Solid
Analysis Batch: 219711

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 219443

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	50.0	51.5		mg/Kg		103	80 - 120
Barium	200	208		mg/Kg		104	80 - 120
Beryllium	5.00	5.25		mg/Kg		105	80 - 120
Cadmium	5.00	5.11		mg/Kg		102	80 - 120
Chromium	20.0	19.8		mg/Kg		99	80 - 120
Copper	25.0	25.3		mg/Kg		101	80 - 120
Lead	50.0	51.2		mg/Kg		102	80 - 120
Manganese	50.0	50.1		mg/Kg		100	80 - 120
Nickel	50.0	51.4		mg/Kg		103	80 - 120
Selenium	50.0	52.3		mg/Kg		105	80 - 120
Silver	5.00	5.03		mg/Kg		101	80 - 120
Zinc	50.0	49.8		mg/Kg		100	80 - 120

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 180-219480/1-A
Matrix: Solid
Analysis Batch: 219600

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 219480

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.033	0.0074	mg/Kg		08/08/17 17:30	08/09/17 11:20	1

Lab Sample ID: LCS 180-219480/2-A
Matrix: Solid
Analysis Batch: 219600

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 219480

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.417	0.456		mg/Kg		109	80 - 120

Method: 9014 - Cyanide

Lab Sample ID: MB 180-219313/4-A
Matrix: Solid
Analysis Batch: 219406

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 219313

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.50	0.15	mg/Kg		08/07/17 11:25	08/07/17 15:26	1

Lab Sample ID: HLCS 180-219313/2-A
Matrix: Solid
Analysis Batch: 219406

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 219313

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.250	0.244		mg/Kg		98	90 - 110

Lab Sample ID: LCS 180-219313/3-A
Matrix: Solid
Analysis Batch: 219406

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 219313

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	163	103		mg/Kg		63	38 - 162

Lab Sample ID: LLCS 180-219313/1-A
Matrix: Solid
Analysis Batch: 219406

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 219313

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.0500	0.0504		mg/Kg		101	90 - 110

GC/MS VOA

Prep Batch: 219095

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68875-12	WB2-3, S3, B 08.02.17	Total/NA	Solid	5035	
180-68875-14	DUP 24	Total/NA	Solid	5035	

Analysis Batch: 219096

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68875-12	WB2-3, S3, B 08.02.17	Total/NA	Solid	8260C	219095
180-68875-14	DUP 24	Total/NA	Solid	8260C	219095
MB 180-219096/9	Method Blank	Total/NA	Solid	8260C	
LCS 180-219096/4	Lab Control Sample	Total/NA	Solid	8260C	

Analysis Batch: 219231

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68875-15	TRIP BLANK #1	Total/NA	Water	8260C	
MB 180-219231/5	Method Blank	Total/NA	Water	8260C	
LCS 180-219231/3	Lab Control Sample	Total/NA	Water	8260C	

Analysis Batch: 219248

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68875-9	WB2-3, S3, A 08.02.17	Total/NA	Solid	8260C	219255
MB 180-219248/8	Method Blank	Total/NA	Solid	8260C	
LCS 180-219248/3	Lab Control Sample	Total/NA	Solid	8260C	

Prep Batch: 219255

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68875-9	WB2-3, S3, A 08.02.17	Total/NA	Solid	5035	

GC/MS Semi VOA

Prep Batch: 219916

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68875-13	WB2-3, S3, C 08.02.17	Total/NA	Solid	3541	
MB 180-219916/1-A	Method Blank	Total/NA	Solid	3541	
LCS 180-219916/2-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 219952

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68875-13	WB2-3, S3, C 08.02.17	Total/NA	Solid	8270D LL	219916
MB 180-219916/1-A	Method Blank	Total/NA	Solid	8270D LL	219916
LCS 180-219916/2-A	Lab Control Sample	Total/NA	Solid	8270D LL	219916

GC Semi VOA

Prep Batch: 219927

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68875-13	WB2-3, S3, C 08.02.17	Total/NA	Solid	3541	
MB 180-219927/1-A	Method Blank	Total/NA	Solid	3541	
LCS 180-219927/4-A	Lab Control Sample	Total/NA	Solid	3541	
LCSD 180-219927/5-A	Lab Control Sample Dup	Total/NA	Solid	3541	

GC Semi VOA (Continued)

Cleanup Batch: 219988

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68875-13	WB2-3, S3, C 08.02.17	Total/NA	Solid	3665A	219927

Cleanup Batch: 219989

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68875-13	WB2-3, S3, C 08.02.17	Total/NA	Solid	3660B	219988

Analysis Batch: 220002

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68875-13	WB2-3, S3, C 08.02.17	Total/NA	Solid	8082A	219989
MB 180-219927/1-A	Method Blank	Total/NA	Solid	8082A	219927
LCS 180-219927/4-A	Lab Control Sample	Total/NA	Solid	8082A	219927
LCSD 180-219927/5-A	Lab Control Sample Dup	Total/NA	Solid	8082A	219927

Metals

Prep Batch: 219443

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68875-13	WB2-3, S3, C 08.02.17	Total/NA	Solid	3050B	
MB 180-219443/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 180-219443/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Prep Batch: 219480

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68875-13	WB2-3, S3, C 08.02.17	Total/NA	Solid	7471B	
MB 180-219480/1-A	Method Blank	Total/NA	Solid	7471B	
LCS 180-219480/2-A	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 219600

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68875-13	WB2-3, S3, C 08.02.17	Total/NA	Solid	7471B	219480
MB 180-219480/1-A	Method Blank	Total/NA	Solid	7471B	219480
LCS 180-219480/2-A	Lab Control Sample	Total/NA	Solid	7471B	219480

Analysis Batch: 219711

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68875-13	WB2-3, S3, C 08.02.17	Total/NA	Solid	6010C	219443
MB 180-219443/1-A	Method Blank	Total/NA	Solid	6010C	219443
LCS 180-219443/2-A	Lab Control Sample	Total/NA	Solid	6010C	219443

General Chemistry

Analysis Batch: 219137

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68875-9	WB2-3, S3, A 08.02.17	Total/NA	Solid	2540G	
180-68875-12	WB2-3, S3, B 08.02.17	Total/NA	Solid	2540G	
180-68875-13	WB2-3, S3, C 08.02.17	Total/NA	Solid	2540G	
180-68875-14	DUP 24	Total/NA	Solid	2540G	

General Chemistry (Continued)

Prep Batch: 219313

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68875-13	WB2-3, S3, C 08.02.17	Total/NA	Solid	9010C	
MB 180-219313/4-A	Method Blank	Total/NA	Solid	9010C	
HLCS 180-219313/2-A	Lab Control Sample	Total/NA	Solid	9010C	
LCS 180-219313/3-A	Lab Control Sample	Total/NA	Solid	9010C	
LLCS 180-219313/1-A	Lab Control Sample	Total/NA	Solid	9010C	

Analysis Batch: 219406

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68875-13	WB2-3, S3, C 08.02.17	Total/NA	Solid	9014	219313
MB 180-219313/4-A	Method Blank	Total/NA	Solid	9014	219313
HLCS 180-219313/2-A	Lab Control Sample	Total/NA	Solid	9014	219313
LCS 180-219313/3-A	Lab Control Sample	Total/NA	Solid	9014	219313
LLCS 180-219313/1-A	Lab Control Sample	Total/NA	Solid	9014	219313

TestAmerica Pittsburgh
301 Alpha Drive RIDC Park
Pittsburgh, PA 15238
Phone (412) 963-7058 Fax (412) 963-2468

Chain of Custody Record

180-68875 Chain of Custody

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Ellen Buelow	Lab PM: Dunlap, David A	COC No: 180-38494-8381.1
Client Contact: Ashwin Ranna; Aron Krasnopoler	Phone: 412-552-4758	E-Mail: david.dunlap@testamericainc.com	Page: Page 1 of 2
Company: Geosyntec Consultants, Inc.			Job #:
Address: Penn Center West One, Suite 402 1 Penn Center West Drive	Due Date Requested:		
City: Pittsburgh	TAT Requested (days): 1 day TAT		
State, Zip: PA, 15276			
Phone:	PO #: MN0832B		
Email: aranna@geosyntec.com; Akrasnopoler@geosyntec.com	WO #:		
Project Name: Former Sperry Remington Site - North IRM	Project #: 18013464		
Site:	SSOW#:		

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No) FIL ALL	Perform MS/MSD (Yes or No) FIL ALL	8260C - VOA-Select List	6010C, 7471B, 9014 - Select ICP Metals, Mercury, Cyanide	8082A, 8270D, PCBs, Select BNA	8260C - VOA-Select List (Trip Blanks only)	TCLP RCRA METALS	TCLP SEMI VOA	TCLP VOC	PCB 8082A	Total Number of containers	Special Instructions/Note:
Preservation Code:							N	N	N	A						
WB,SS,A 08.02.17	08.02.17	10:35	G	Solid	N	N							X		2	
WB,SS,C 08.02.17	08.02.17	10:40	C	Solid	N	N					X	X		X	3	
WB,S6,A 08.02.17	08.02.17	10:55	G	Solid	N	N							X		2	
WB, SG,C 08.02.17	08.02.17	11:00	C	Solid	N	N					X	X		X	3	
WB1-2,S1,A 08.02.17	08.02.17	14:10	G	Solid	N	N							X		2	
WB1-2,S1,C 08.02.17	08.02.17	14:20	C	Solid	N	N					X	X		X	3	
WB1-2,S2,A 08.02.17	08.02.17	15:05	G	Solid	N	N							X		2	
WB1-2,S2,C 08.02.17	08.02.17	15:10	C	Solid	N	N					X	X		X	3	
WB2-3,S3,A 08.02.17	08.02.17	16:10	G	Solid	N	N	X								4	TRIP BLANK #1
DUP 22	09.02.17	—	C	Solid							X	X		X	3	
DUP 23	09.02.17	—	G	Solid									X		2	

RUSH

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Ellen Buelow	08.02.17 18:30	Geosyntec		8/3/17 850	TAP
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
phone 412.963.7058 fax 412.963.2468

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☑ Other:

Client Contact	Project Manager: Aron Krasnopoler	Site Contact: Ashwin Ranna/Ellen Buelow	Date:	COC No:
Geosyntec Consultants	Tel/Fax: 401-381-4333	Lab Contact: Dave Dunlap	Carrier: FedEx	2 of 2 COCs
10211 Wincopin Circle, 4th Floor	**Analysis Turnaround Time**			Sampler:
Columbia, MD 21044	☐ CALENDAR DAYS ☑ WORKING DAYS			**For Lab Use Only:**
410-381-4333 Phone	TAT if different from Below _____			Walk-in Client:
410-381-4499 FAX	☐ 2 weeks			Lab Sampling:
Project Name: Former Sperry Remington Site - North	☐ 1 week			
Site: Elmira	☐ 2 days			Job / SDG No.:
P O # MN0832B	☒ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	8260C - VOA- Select List	6010C, 7471B, 9014	8082A, 8270D_LL	8260C_LL-VOA-Select List	Sample Specific Notes:
WB 2-3, S3, B 08.02.17	08.02.17	16:15	G	S	4	N	N	X				TRIP BLANK #1
WB 2-3, S3, C 08.02.17	08.02.17	16:20	C	S	2	N	N		X	X		TRIP BLANK #1
DUP 24	08.02.17	—	G	S	4	N	N	X				TRIP BLANK #1

RUSH

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

1

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☒ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd: _____ Corr'd: _____ Therm ID No.: _____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Ellen Buelow	Geosyntec	08.02.17 18:30		FAP	8/3/17 850
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Form No. CA-C-WI-002, Rev. 4.3, dated 12/05/2013

8/15/2017

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 180-68875-2

Login Number: 68875
List Number: 1
Creator: Say, Thomas C

List Source: TestAmerica Pittsburgh

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

TestAmerica Job ID: 180-68927-1
Client Project/Site: Former Sperry Remington Site - North IRM

For:
Geosyntec Consultants, Inc.
10211 Wincopin Circle
4'th Floor
Columbia, Maryland 21044

Attn: Mr. Aron Krasnopoler

Authorized for release by:
8/21/2017 2:50:40 PM

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Job ID: 180-68927-1

Laboratory: TestAmerica Pittsburgh

Narrative

Job Narrative
180-68927-1

Receipt
The samples were received on 8/4/2017 8:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.7º C.

GC/MS Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC Semi VOA
Method(s) 8082A: The continuing calibration verification (CCV) analyzed in batch 180-220002 was above criteria for arcolor 1254 (CCV 180-220002/1) on column RTX-CLP1. The aroclor 1254 results in the associated samples were reported from column RTX-CLP2, which met criteria. The % difference between the sample results on both columns was <40%.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Definitions/Glossary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68927-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc. TestAmerica Job ID: 180-68927-1
Project/Site: Former Sperry Remington Site - North IRM

Laboratory: TestAmerica Pittsburgh

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	11182	03-31-18

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
2540G		Solid	Percent Moisture
2540G		Solid	Percent Solids
8270D	3541	Solid	1,4-Dioxane

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68927-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-68927-1	EDGER SIDEWALL	Solid	08/03/17 15:30	08/04/17 08:00
180-68927-2	NE EDGER TRENCH PIPE	Solid	08/03/17 15:00	08/04/17 08:00

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68927-1

Method	Method Description	Protocol	Laboratory
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL PIT
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL PIT
6010C	Metals (ICP)	SW846	TAL PIT
7471B	Mercury (CVAA)	SW846	TAL PIT
2540G	SM 2540G	SM22	TAL PIT

Protocol References:

SM22 = SM22

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68927-1

Client Sample ID: EDGER SIDEWALL
Lab Sample ID: 180-68927-1
Date Collected: 08/03/17 15:30
Matrix: Solid
Date Received: 08/04/17 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			219574	08/09/17 12:44	JJZ	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: EDGER SIDEWALL
Lab Sample ID: 180-68927-1
Date Collected: 08/03/17 15:30
Matrix: Solid
Date Received: 08/04/17 08:00
Percent Solids: 86.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.4 g	5.0 mL	219870	08/12/17 04:03	BAP	TAL PIT
Total/NA	Analysis	8270D		1	1 mL	1 mL	219886	08/12/17 20:15	VVP	TAL PIT
	Instrument ID: CH731									
Total/NA	Prep	3541			15.4 g	20.0 mL	219927	08/14/17 03:48	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	219988	08/14/17 10:20	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	219989	08/14/17 10:21	JMO	TAL PIT
Total/NA	Analysis	8082A		1			220002	08/15/17 01:05	JMO	TAL PIT
	Instrument ID: CHGC8									
Total/NA	Prep	3050B			1.00 g	100 mL	219444	08/08/17 14:08	SES	TAL PIT
Total/NA	Analysis	6010C		1			219768	08/10/17 16:20	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.54 g	100 mL	220564	08/18/17 15:34	RJR	TAL PIT
Total/NA	Analysis	7471B		1			220613	08/19/17 13:38	RJR	TAL PIT
	Instrument ID: K									

Client Sample ID: NE EDGER TRENCH PIPE
Lab Sample ID: 180-68927-2
Date Collected: 08/03/17 15:00
Matrix: Solid
Date Received: 08/04/17 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			219574	08/09/17 12:44	JJZ	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: NE EDGER TRENCH PIPE
Lab Sample ID: 180-68927-2
Date Collected: 08/03/17 15:00
Matrix: Solid
Date Received: 08/04/17 08:00
Percent Solids: 95.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.2 g	20.0 mL	219927	08/14/17 03:48	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	219988	08/14/17 10:20	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	219989	08/14/17 10:21	JMO	TAL PIT
Total/NA	Analysis	8082A		1			220002	08/15/17 01:26	JMO	TAL PIT
	Instrument ID: CHGC8									
Total/NA	Prep	3050B			0.98 g	100 mL	219444	08/08/17 14:08	SES	TAL PIT
Total/NA	Analysis	6010C		1			219768	08/10/17 16:25	RJG	TAL PIT
	Instrument ID: C									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68927-1

Client Sample ID: NE EDGER TRENCH PIPE
Date Collected: 08/03/17 15:00
Date Received: 08/04/17 08:00

Lab Sample ID: 180-68927-2
Matrix: Solid
Percent Solids: 95.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471B			0.57 g	100 mL	220564	08/18/17 15:34	RJR	TAL PIT
Total/NA	Analysis	7471B		1			220613	08/19/17 13:40	RJR	TAL PIT
	Instrument ID: K									

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Analyst References:

Lab: TAL PIT

Batch Type: Cleanup

JMO = John Oravec

Batch Type: Prep

BAP = Brian Pino

RJR = Ron Rosenbaum

SES = Samantha Strauser

Batch Type: Analysis

JJZ = Joseph Zubrow

JMO = John Oravec

RJG = Rob Good

RJR = Ron Rosenbaum

VVP = Vincent Piccolino

Client Sample ID: EDGER SIDEWALL

Date Collected: 08/03/17 15:30
Date Received: 08/04/17 08:00

Lab Sample ID: 180-68927-1
Matrix: Solid
Percent Solids: 86.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		76	25	ug/Kg	☼	08/12/17 04:03	08/12/17 20:15	1
Acenaphthylene	ND		76	26	ug/Kg	☼	08/12/17 04:03	08/12/17 20:15	1
Acetophenone	ND		760	26	ug/Kg	☼	08/12/17 04:03	08/12/17 20:15	1
Anthracene	ND		76	28	ug/Kg	☼	08/12/17 04:03	08/12/17 20:15	1
Atrazine	ND		760	52	ug/Kg	☼	08/12/17 04:03	08/12/17 20:15	1
Benzaldehyde	ND		760	25	ug/Kg	☼	08/12/17 04:03	08/12/17 20:15	1
Benzo[a]anthracene	**130**		76	30	ug/Kg	☼	08/12/17 04:03	08/12/17 20:15	1
Benzo[a]pyrene	**85**		76	31	ug/Kg	☼	08/12/17 04:03	08/12/17 20:15	1
Benzo[b]fluoranthene	**250**		76	33	ug/Kg	☼	08/12/17 04:03	08/12/17 20:15	1
Benzo[g,h,i]perylene	**150**		76	33	ug/Kg	☼	08/12/17 04:03	08/12/17 20:15	1
Benzo[k]fluoranthene	**51**	**J**	76	26	ug/Kg	☼	08/12/17 04:03	08/12/17 20:15	1
1,1'-Biphenyl	**56**	**J**	370	30	ug/Kg	☼	08/12/17 04:03	08/12/17 20:15	1
Bis(2-chloroethoxy)methane	ND		370	22	ug/Kg	☼	08/12/17 04:03	08/12/17 20:15	1
Bis(2-chloroethyl)ether	ND		76	22	ug/Kg	☼	08/12/17 04:03	08/12/17 20:15	1
Bis(2-ethylhexyl) phthalate	ND		760	250	ug/Kg	☼	08/12/17 04:03	08/12/17 20:15	1
4-Bromophenyl phenyl ether	ND		370	36	ug/Kg	☼	08/12/17 04:03	08/12/17 20:15	1
Butyl benzyl phthalate	ND		370	280	ug/Kg	☼	08/12/17 04:03	08/12/17 20:15	1
Caprolactam	ND		1900	180	ug/Kg	☼	08/12/17 04:03	08/12/17 20:15	1
Carbazole	ND		76	32	ug/Kg	☼	08/12/17 04:03	08/12/17 20:15	1
4-Chloroaniline	ND		370	21	ug/Kg	☼	08/12/17 04:03	08/12/17 20:15	1
4-Chloro-3-methylphenol	ND		370	40	ug/Kg	☼	08/12/17 04:03	08/12/17 20:15	1
2-Chloronaphthalene	ND		76	25	ug/Kg	☼	08/12/17 04:03	08/12/17 20:15	1
2-Chlorophenol	ND		370	27	ug/Kg	☼	08/12/17 04:03	08/12/17 20:15	1
4-Chlorophenyl phenyl ether	ND		370	27	ug/Kg	☼	08/12/17 04:03	08/12/17 20:15	1
Chrysene	**540**		76	29	ug/Kg	☼	08/12/17 04:03	08/12/17 20:15	1
Dibenz(a,h)anthracene	**67**	**J**	76	31	ug/Kg	☼	08/12/17 04:03	08/12/17 20:15	1
Dibenzofuran	**92**	**J**	370	30	ug/Kg	☼	08/12/17 04:03	08/12/17 20:15	1
3,3'-Dichlorobenzidine	ND		370	160	ug/Kg	☼	08/12/17 04:03	08/12/17 20:15	1
2,4-Dichlorophenol	ND		76	31	ug/Kg	☼	08/12/17 04:03	08/12/17 20:15	1
Diethyl phthalate	ND		370	33	ug/Kg	☼	08/12/17 04:03	08/12/17 20:15	1
2,4-Dimethylphenol	ND		370	29	ug/Kg	☼	08/12/17 04:03	08/12/17 20:15	1
Dimethyl phthalate	ND		370	26	ug/Kg	☼	08/12/17 04:03	08/12/17 20:15	1
Di-n-butyl phthalate	ND		370	30	ug/Kg	☼	08/12/17 04:03	08/12/17 20:15	1
4,6-Dinitro-2-methylphenol	ND		1900	700	ug/Kg	☼	08/12/17 04:03	08/12/17 20:15	1
2,4-Dinitrophenol	ND		3700	760	ug/Kg	☼	08/12/17 04:03	08/12/17 20:15	1
2,4-Dinitrotoluene	ND		370	50	ug/Kg	☼	08/12/17 04:03	08/12/17 20:15	1
2,6-Dinitrotoluene	ND		370	26	ug/Kg	☼	08/12/17 04:03	08/12/17 20:15	1
Di-n-octyl phthalate	ND		370	45	ug/Kg	☼	08/12/17 04:03	08/12/17 20:15	1
1,4-Dioxane	ND		760	57	ug/Kg	☼	08/12/17 04:03	08/12/17 20:15	1
Fluoranthene	**230**		76	30	ug/Kg	☼	08/12/17 04:03	08/12/17 20:15	1
Fluorene	ND		76	27	ug/Kg	☼	08/12/17 04:03	08/12/17 20:15	1
Hexachlorobenzene	ND		76	30	ug/Kg	☼	08/12/17 04:03	08/12/17 20:15	1
Hexachlorobutadiene	ND		76	24	ug/Kg	☼	08/12/17 04:03	08/12/17 20:15	1
Hexachlorocyclopentadiene	ND		370	32	ug/Kg	☼	08/12/17 04:03	08/12/17 20:15	1
Hexachloroethane	ND		370	27	ug/Kg	☼	08/12/17 04:03	08/12/17 20:15	1
Indeno[1,2,3-cd]pyrene	**89**		76	29	ug/Kg	☼	08/12/17 04:03	08/12/17 20:15	1
Isophorone	ND		370	21	ug/Kg	☼	08/12/17 04:03	08/12/17 20:15	1
2-Methylnaphthalene	**160**		76	29	ug/Kg	☼	08/12/17 04:03	08/12/17 20:15	1
2-Methylphenol	ND		370	33	ug/Kg	☼	08/12/17 04:03	08/12/17 20:15	1

Client Sample ID: EDGER SIDEWALL **Lab Sample ID: 180-68927-1**
Date Collected: 08/03/17 15:30 **Matrix: Solid**
Date Received: 08/04/17 08:00 **Percent Solids: 86.1**

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylphenol, 3 & 4	ND		370	33	ug/Kg	☼	08/12/17 04:03	08/12/17 20:15	1
Naphthalene	**97**		76	27	ug/Kg	☼	08/12/17 04:03	08/12/17 20:15	1
2-Nitroaniline	ND		1900	130	ug/Kg	☼	08/12/17 04:03	08/12/17 20:15	1
3-Nitroaniline	ND		1900	110	ug/Kg	☼	08/12/17 04:03	08/12/17 20:15	1
4-Nitroaniline	ND		1900	140	ug/Kg	☼	08/12/17 04:03	08/12/17 20:15	1
Nitrobenzene	ND		760	29	ug/Kg	☼	08/12/17 04:03	08/12/17 20:15	1
2-Nitrophenol	ND		370	28	ug/Kg	☼	08/12/17 04:03	08/12/17 20:15	1
4-Nitrophenol	ND		1900	400	ug/Kg	☼	08/12/17 04:03	08/12/17 20:15	1
N-Nitrosodi-n-propylamine	ND		76	26	ug/Kg	☼	08/12/17 04:03	08/12/17 20:15	1
N-Nitrosodiphenylamine	ND		370	59	ug/Kg	☼	08/12/17 04:03	08/12/17 20:15	1
2,2'-oxybis[1-chloropropane]	ND		76	24	ug/Kg	☼	08/12/17 04:03	08/12/17 20:15	1
Pentachlorophenol	ND		1900	710	ug/Kg	☼	08/12/17 04:03	08/12/17 20:15	1
Phenanthrene	**670**		76	32	ug/Kg	☼	08/12/17 04:03	08/12/17 20:15	1
Phenol	ND		370	51	ug/Kg	☼	08/12/17 04:03	08/12/17 20:15	1
Pyrene	**230**		76	34	ug/Kg	☼	08/12/17 04:03	08/12/17 20:15	1
1,2,4,5-Tetrachlorobenzene	ND		370	27	ug/Kg	☼	08/12/17 04:03	08/12/17 20:15	1
2,3,4,6-Tetrachlorophenol	ND		370	30	ug/Kg	☼	08/12/17 04:03	08/12/17 20:15	1
2,4,5-Trichlorophenol	ND		370	36	ug/Kg	☼	08/12/17 04:03	08/12/17 20:15	1
2,4,6-Trichlorophenol	ND		370	33	ug/Kg	☼	08/12/17 04:03	08/12/17 20:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*79*		*34 - 100*	*08/12/17 04:03*	*08/12/17 20:15*	*1*
2-Fluorophenol (Surr)	*78*		*24 - 109*	*08/12/17 04:03*	*08/12/17 20:15*	*1*
Nitrobenzene-d5 (Surr)	*82*		*31 - 105*	*08/12/17 04:03*	*08/12/17 20:15*	*1*
Phenol-d5 (Surr)	*80*		*24 - 106*	*08/12/17 04:03*	*08/12/17 20:15*	*1*
Terphenyl-d14 (Surr)	*78*		*34 - 104*	*08/12/17 04:03*	*08/12/17 20:15*	*1*
2,4,6-Tribromophenol (Surr)	*73*		*21 - 114*	*08/12/17 04:03*	*08/12/17 20:15*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.019	0.010	mg/Kg	☼	08/14/17 03:48	08/15/17 01:05	1
PCB-1221	ND		0.019	0.0098	mg/Kg	☼	08/14/17 03:48	08/15/17 01:05	1
PCB-1232	ND		0.019	0.0075	mg/Kg	☼	08/14/17 03:48	08/15/17 01:05	1
PCB-1242	ND		0.019	0.015	mg/Kg	☼	08/14/17 03:48	08/15/17 01:05	1
PCB-1248	**0.012**	**J**	0.019	0.0090	mg/Kg	☼	08/14/17 03:48	08/15/17 01:05	1
PCB-1254	**0.0096**	**J**	0.019	0.0083	mg/Kg	☼	08/14/17 03:48	08/15/17 01:05	1
PCB-1260	ND		0.019	0.013	mg/Kg	☼	08/14/17 03:48	08/15/17 01:05	1
PCB-1262	ND		0.019	0.014	mg/Kg	☼	08/14/17 03:48	08/15/17 01:05	1
PCB-1268	ND		0.019	0.0057	mg/Kg	☼	08/14/17 03:48	08/15/17 01:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*73*		*23 - 150*	*08/14/17 03:48*	*08/15/17 01:05*	*1*
DCB Decachlorobiphenyl (Surr)	*80*		*23 - 150*	*08/14/17 03:48*	*08/15/17 01:05*	*1*
Tetrachloro-m-xylene (Surr)	*79*		*27 - 138*	*08/14/17 03:48*	*08/15/17 01:05*	*1*
Tetrachloro-m-xylene (Surr)	*70*		*27 - 138*	*08/14/17 03:48*	*08/15/17 01:05*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**4300**		23	8.9	mg/Kg	☼	08/08/17 14:08	08/10/17 16:20	1
Antimony	**3.3**		1.2	0.41	mg/Kg	☼	08/08/17 14:08	08/10/17 16:20	1

Client Sample ID: EDGER SIDEWALL — Lab Sample ID: 180-68927-1

Date Collected: 08/03/17 15:30 — Matrix: Solid
Date Received: 08/04/17 08:00 — Percent Solids: 86.1

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	30		1.2	0.51	mg/Kg	☼	08/08/17 14:08	08/10/17 16:20	1
Barium	100		23	6.2	mg/Kg	☼	08/08/17 14:08	08/10/17 16:20	1
Beryllium	0.58		0.46	0.12	mg/Kg	☼	08/08/17 14:08	08/10/17 16:20	1
Cadmium	0.19	J	0.58	0.13	mg/Kg	☼	08/08/17 14:08	08/10/17 16:20	1
Calcium	8800		580	160	mg/Kg	☼	08/08/17 14:08	08/10/17 16:20	1
Chromium	9.9		0.58	0.15	mg/Kg	☼	08/08/17 14:08	08/10/17 16:20	1
Cobalt	6.1		5.8	1.3	mg/Kg	☼	08/08/17 14:08	08/10/17 16:20	1
Copper	96		2.9	0.89	mg/Kg	☼	08/08/17 14:08	08/10/17 16:20	1
Iron	36000		12	6.4	mg/Kg	☼	08/08/17 14:08	08/10/17 16:20	1
Lead	120		1.2	0.38	mg/Kg	☼	08/08/17 14:08	08/10/17 16:20	1
Magnesium	1200		580	150	mg/Kg	☼	08/08/17 14:08	08/10/17 16:20	1
Manganese	210		1.7	0.47	mg/Kg	☼	08/08/17 14:08	08/10/17 16:20	1
Nickel	20		4.6	1.0	mg/Kg	☼	08/08/17 14:08	08/10/17 16:20	1
Potassium	860		580	140	mg/Kg	☼	08/08/17 14:08	08/10/17 16:20	1
Selenium	5.8		1.2	0.46	mg/Kg	☼	08/08/17 14:08	08/10/17 16:20	1
Silver	ND		0.58	0.19	mg/Kg	☼	08/08/17 14:08	08/10/17 16:20	1
Sodium	230	J	580	160	mg/Kg	☼	08/08/17 14:08	08/10/17 16:20	1
Thallium	ND		2.3	0.58	mg/Kg	☼	08/08/17 14:08	08/10/17 16:20	1
Vanadium	18		5.8	1.8	mg/Kg	☼	08/08/17 14:08	08/10/17 16:20	1
Zinc	70		2.3	1.2	mg/Kg	☼	08/08/17 14:08	08/10/17 16:20	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.24		0.043	0.0095	mg/Kg	☼	08/18/17 15:34	08/19/17 13:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	13.9		0.1	0.1	%			08/09/17 12:44	1
Percent Solids	86.1		0.1	0.1	%			08/09/17 12:44	1

Client Sample ID: NE EDGER TRENCH PIPE — Lab Sample ID: 180-68927-2

Date Collected: 08/03/17 15:00 — Matrix: Solid
Date Received: 08/04/17 08:00 — Percent Solids: 95.5

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.017	0.0091	mg/Kg	☼	08/14/17 03:48	08/15/17 01:26	1
PCB-1221	ND		0.017	0.0089	mg/Kg	☼	08/14/17 03:48	08/15/17 01:26	1
PCB-1232	ND		0.017	0.0068	mg/Kg	☼	08/14/17 03:48	08/15/17 01:26	1
PCB-1242	ND		0.017	0.014	mg/Kg	☼	08/14/17 03:48	08/15/17 01:26	1
PCB-1248	ND		0.017	0.0082	mg/Kg	☼	08/14/17 03:48	08/15/17 01:26	1
PCB-1254	0.090		0.017	0.0076	mg/Kg	☼	08/14/17 03:48	08/15/17 01:26	1
PCB-1260	0.038		0.017	0.012	mg/Kg	☼	08/14/17 03:48	08/15/17 01:26	1
PCB-1262	ND		0.017	0.012	mg/Kg	☼	08/14/17 03:48	08/15/17 01:26	1
PCB-1268	ND		0.017	0.0052	mg/Kg	☼	08/14/17 03:48	08/15/17 01:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*81*		*23 - 150*	*08/14/17 03:48*	*08/15/17 01:26*	*1*
DCB Decachlorobiphenyl (Surr)	*88*		*23 - 150*	*08/14/17 03:48*	*08/15/17 01:26*	*1*
Tetrachloro-m-xylene (Surr)	*78*		*27 - 138*	*08/14/17 03:48*	*08/15/17 01:26*	*1*

Client Sample ID: NE EDGER TRENCH PIPE **Lab Sample ID: 180-68927-2**
Date Collected: 08/03/17 15:00 **Matrix: Solid**
Date Received: 08/04/17 08:00 **Percent Solids: 95.5**

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	*68*		*27 - 138*	*08/14/17 03:48*	*08/15/17 01:26*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**7400**		21	8.1	mg/Kg	☼	08/08/17 14:08	08/10/17 16:25	1
Antimony	**0.88**	**J**	1.1	0.38	mg/Kg	☼	08/08/17 14:08	08/10/17 16:25	1
Arsenic	**19**		1.1	0.47	mg/Kg	☼	08/08/17 14:08	08/10/17 16:25	1
Barium	**85**		21	5.7	mg/Kg	☼	08/08/17 14:08	08/10/17 16:25	1
Beryllium	**0.48**		0.43	0.11	mg/Kg	☼	08/08/17 14:08	08/10/17 16:25	1
Cadmium	**0.44**	**J**	0.53	0.12	mg/Kg	☼	08/08/17 14:08	08/10/17 16:25	1
Calcium	**5500**		530	150	mg/Kg	☼	08/08/17 14:08	08/10/17 16:25	1
Chromium	**11**		0.53	0.14	mg/Kg	☼	08/08/17 14:08	08/10/17 16:25	1
Cobalt	**7.1**		5.3	1.2	mg/Kg	☼	08/08/17 14:08	08/10/17 16:25	1
Copper	**57**		2.7	0.82	mg/Kg	☼	08/08/17 14:08	08/10/17 16:25	1
Iron	**24000**		11	5.9	mg/Kg	☼	08/08/17 14:08	08/10/17 16:25	1
Lead	**140**		1.1	0.35	mg/Kg	☼	08/08/17 14:08	08/10/17 16:25	1
Magnesium	**2300**		530	140	mg/Kg	☼	08/08/17 14:08	08/10/17 16:25	1
Manganese	**210**		1.6	0.43	mg/Kg	☼	08/08/17 14:08	08/10/17 16:25	1
Nickel	**17**		4.3	0.96	mg/Kg	☼	08/08/17 14:08	08/10/17 16:25	1
Potassium	**450**	**J**	530	130	mg/Kg	☼	08/08/17 14:08	08/10/17 16:25	1
Selenium	**4.9**		1.1	0.42	mg/Kg	☼	08/08/17 14:08	08/10/17 16:25	1
Silver	ND		0.53	0.18	mg/Kg	☼	08/08/17 14:08	08/10/17 16:25	1
Sodium	ND		530	150	mg/Kg	☼	08/08/17 14:08	08/10/17 16:25	1
Thallium	ND		2.1	0.53	mg/Kg	☼	08/08/17 14:08	08/10/17 16:25	1
Vanadium	**16**		5.3	1.7	mg/Kg	☼	08/08/17 14:08	08/10/17 16:25	1
Zinc	**230**		2.1	1.1	mg/Kg	☼	08/08/17 14:08	08/10/17 16:25	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**1.1**		0.036	0.0081	mg/Kg	☼	08/18/17 15:34	08/19/17 13:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**4.5**		0.1	0.1	%			08/09/17 12:44	1
Percent Solids	**95.5**		0.1	0.1	%			08/09/17 12:44	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 180-219870/1-A
Matrix: Solid
Analysis Batch: 219886

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 219870

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		67	22	ug/Kg		08/12/17 04:03	08/12/17 13:04	1
Acenaphthylene	ND		67	23	ug/Kg		08/12/17 04:03	08/12/17 13:04	1
Acetophenone	ND		670	23	ug/Kg		08/12/17 04:03	08/12/17 13:04	1
Anthracene	ND		67	25	ug/Kg		08/12/17 04:03	08/12/17 13:04	1
Atrazine	ND		670	46	ug/Kg		08/12/17 04:03	08/12/17 13:04	1
Benzaldehyde	ND		670	22	ug/Kg		08/12/17 04:03	08/12/17 13:04	1
Benzo[a]anthracene	ND		67	26	ug/Kg		08/12/17 04:03	08/12/17 13:04	1
Benzo[a]pyrene	ND		67	28	ug/Kg		08/12/17 04:03	08/12/17 13:04	1
Benzo[b]fluoranthene	ND		67	29	ug/Kg		08/12/17 04:03	08/12/17 13:04	1
Benzo[g,h,i]perylene	ND		67	29	ug/Kg		08/12/17 04:03	08/12/17 13:04	1
Benzo[k]fluoranthene	ND		67	23	ug/Kg		08/12/17 04:03	08/12/17 13:04	1
1,1'-Biphenyl	ND		330	26	ug/Kg		08/12/17 04:03	08/12/17 13:04	1
Bis(2-chloroethoxy)methane	ND		330	19	ug/Kg		08/12/17 04:03	08/12/17 13:04	1
Bis(2-chloroethyl)ether	ND		67	20	ug/Kg		08/12/17 04:03	08/12/17 13:04	1
Bis(2-ethylhexyl) phthalate	ND		670	220	ug/Kg		08/12/17 04:03	08/12/17 13:04	1
4-Bromophenyl phenyl ether	ND		330	32	ug/Kg		08/12/17 04:03	08/12/17 13:04	1
Butyl benzyl phthalate	ND		330	250	ug/Kg		08/12/17 04:03	08/12/17 13:04	1
Caprolactam	ND		1700	160	ug/Kg		08/12/17 04:03	08/12/17 13:04	1
Carbazole	ND		67	28	ug/Kg		08/12/17 04:03	08/12/17 13:04	1
4-Chloroaniline	ND		330	19	ug/Kg		08/12/17 04:03	08/12/17 13:04	1
4-Chloro-3-methylphenol	ND		330	35	ug/Kg		08/12/17 04:03	08/12/17 13:04	1
2-Chloronaphthalene	ND		67	22	ug/Kg		08/12/17 04:03	08/12/17 13:04	1
2-Chlorophenol	ND		330	24	ug/Kg		08/12/17 04:03	08/12/17 13:04	1
4-Chlorophenyl phenyl ether	ND		330	24	ug/Kg		08/12/17 04:03	08/12/17 13:04	1
Chrysene	ND		67	26	ug/Kg		08/12/17 04:03	08/12/17 13:04	1
Dibenz(a,h)anthracene	ND		67	28	ug/Kg		08/12/17 04:03	08/12/17 13:04	1
Dibenzofuran	ND		330	27	ug/Kg		08/12/17 04:03	08/12/17 13:04	1
3,3'-Dichlorobenzidine	ND		330	140	ug/Kg		08/12/17 04:03	08/12/17 13:04	1
2,4-Dichlorophenol	ND		67	27	ug/Kg		08/12/17 04:03	08/12/17 13:04	1
Diethyl phthalate	ND		330	30	ug/Kg		08/12/17 04:03	08/12/17 13:04	1
2,4-Dimethylphenol	ND		330	26	ug/Kg		08/12/17 04:03	08/12/17 13:04	1
Dimethyl phthalate	ND		330	23	ug/Kg		08/12/17 04:03	08/12/17 13:04	1
Di-n-butyl phthalate	ND		330	26	ug/Kg		08/12/17 04:03	08/12/17 13:04	1
4,6-Dinitro-2-methylphenol	ND		1700	620	ug/Kg		08/12/17 04:03	08/12/17 13:04	1
2,4-Dinitrophenol	ND		3300	670	ug/Kg		08/12/17 04:03	08/12/17 13:04	1
2,4-Dinitrotoluene	ND		330	44	ug/Kg		08/12/17 04:03	08/12/17 13:04	1
2,6-Dinitrotoluene	ND		330	23	ug/Kg		08/12/17 04:03	08/12/17 13:04	1
Di-n-octyl phthalate	ND		330	40	ug/Kg		08/12/17 04:03	08/12/17 13:04	1
1,4-Dioxane	ND		670	50	ug/Kg		08/12/17 04:03	08/12/17 13:04	1
Fluoranthene	ND		67	26	ug/Kg		08/12/17 04:03	08/12/17 13:04	1
Fluorene	ND		67	24	ug/Kg		08/12/17 04:03	08/12/17 13:04	1
Hexachlorobenzene	ND		67	27	ug/Kg		08/12/17 04:03	08/12/17 13:04	1
Hexachlorobutadiene	ND		67	21	ug/Kg		08/12/17 04:03	08/12/17 13:04	1
Hexachlorocyclopentadiene	ND		330	28	ug/Kg		08/12/17 04:03	08/12/17 13:04	1
Hexachloroethane	ND		330	24	ug/Kg		08/12/17 04:03	08/12/17 13:04	1
Indeno[1,2,3-cd]pyrene	ND		67	26	ug/Kg		08/12/17 04:03	08/12/17 13:04	1
Isophorone	ND		330	18	ug/Kg		08/12/17 04:03	08/12/17 13:04	1
2-Methylnaphthalene	ND		67	26	ug/Kg		08/12/17 04:03	08/12/17 13:04	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 180-219870/1-A
Matrix: Solid
Analysis Batch: 219886

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 219870

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	ND		330	29	ug/Kg		08/12/17 04:03	08/12/17 13:04	1
Methylphenol, 3 & 4	ND		330	30	ug/Kg		08/12/17 04:03	08/12/17 13:04	1
Naphthalene	ND		67	24	ug/Kg		08/12/17 04:03	08/12/17 13:04	1
2-Nitroaniline	ND		1700	110	ug/Kg		08/12/17 04:03	08/12/17 13:04	1
3-Nitroaniline	ND		1700	97	ug/Kg		08/12/17 04:03	08/12/17 13:04	1
4-Nitroaniline	ND		1700	120	ug/Kg		08/12/17 04:03	08/12/17 13:04	1
Nitrobenzene	ND		670	25	ug/Kg		08/12/17 04:03	08/12/17 13:04	1
2-Nitrophenol	ND		330	24	ug/Kg		08/12/17 04:03	08/12/17 13:04	1
4-Nitrophenol	ND		1700	350	ug/Kg		08/12/17 04:03	08/12/17 13:04	1
N-Nitrosodi-n-propylamine	ND		67	23	ug/Kg		08/12/17 04:03	08/12/17 13:04	1
N-Nitrosodiphenylamine	ND		330	52	ug/Kg		08/12/17 04:03	08/12/17 13:04	1
2,2'-oxybis[1-chloropropane]	ND		67	22	ug/Kg		08/12/17 04:03	08/12/17 13:04	1
Pentachlorophenol	ND		1700	630	ug/Kg		08/12/17 04:03	08/12/17 13:04	1
Phenanthrene	ND		67	28	ug/Kg		08/12/17 04:03	08/12/17 13:04	1
Phenol	ND		330	45	ug/Kg		08/12/17 04:03	08/12/17 13:04	1
Pyrene	ND		67	30	ug/Kg		08/12/17 04:03	08/12/17 13:04	1
1,2,4,5-Tetrachlorobenzene	ND		330	24	ug/Kg		08/12/17 04:03	08/12/17 13:04	1
2,3,4,6-Tetrachlorophenol	ND		330	27	ug/Kg		08/12/17 04:03	08/12/17 13:04	1
2,4,5-Trichlorophenol	ND		330	32	ug/Kg		08/12/17 04:03	08/12/17 13:04	1
2,4,6-Trichlorophenol	ND		330	29	ug/Kg		08/12/17 04:03	08/12/17 13:04	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*83*		*34 - 100*	*08/12/17 04:03*	*08/12/17 13:04*	*1*
2-Fluorophenol (Surr)	*88*		*24 - 109*	*08/12/17 04:03*	*08/12/17 13:04*	*1*
Nitrobenzene-d5 (Surr)	*84*		*31 - 105*	*08/12/17 04:03*	*08/12/17 13:04*	*1*
Phenol-d5 (Surr)	*89*		*24 - 106*	*08/12/17 04:03*	*08/12/17 13:04*	*1*
Terphenyl-d14 (Surr)	*86*		*34 - 104*	*08/12/17 04:03*	*08/12/17 13:04*	*1*
2,4,6-Tribromophenol (Surr)	*76*		*21 - 114*	*08/12/17 04:03*	*08/12/17 13:04*	*1*

Lab Sample ID: LCS 180-219870/2-A
Matrix: Solid
Analysis Batch: 219886

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 219870

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	6670	5340		ug/Kg		80	40 - 100
Acenaphthylene	6670	5340		ug/Kg		80	44 - 100
Acetophenone	6670	4510		ug/Kg		68	33 - 100
Anthracene	6670	5620		ug/Kg		84	45 - 100
Atrazine	6670	3880		ug/Kg		58	17 - 123
Benzaldehyde	6670	5470		ug/Kg		82	10 - 107
Benzo[a]anthracene	6670	5520		ug/Kg		83	45 - 100
Benzo[a]pyrene	6670	5450		ug/Kg		82	43 - 102
Benzo[b]fluoranthene	6670	5300		ug/Kg		80	40 - 100
Benzo[g,h,i]perylene	6670	6020		ug/Kg		90	41 - 110
Benzo[k]fluoranthene	6670	5520		ug/Kg		83	41 - 100
1,1'-Biphenyl	6670	5270		ug/Kg		79	41 - 100
Bis(2-chloroethoxy)methane	6670	5370		ug/Kg		80	41 - 100
Bis(2-chloroethyl)ether	6670	5360		ug/Kg		80	39 - 100

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 180-219870/2-A
Matrix: Solid
Analysis Batch: 219886

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 219870

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bis(2-ethylhexyl) phthalate	6670	5780		ug/Kg		87	46 - 107
4-Bromophenyl phenyl ether	6670	5250		ug/Kg		79	46 - 101
Butyl benzyl phthalate	6670	6310		ug/Kg		95	45 - 108
Caprolactam	6670	6250		ug/Kg		94	40 - 114
Carbazole	6670	5660		ug/Kg		85	42 - 103
4-Chloroaniline	6670	5340		ug/Kg		80	42 - 100
4-Chloro-3-methylphenol	6670	5800		ug/Kg		87	39 - 109
2-Chloronaphthalene	6670	5150		ug/Kg		77	42 - 100
2-Chlorophenol	6670	5590		ug/Kg		84	35 - 105
4-Chlorophenyl phenyl ether	6670	5110		ug/Kg		77	46 - 100
Chrysene	6670	5260		ug/Kg		79	45 - 100
Dibenz(a,h)anthracene	6670	6330		ug/Kg		95	42 - 110
Dibenzofuran	6670	5410		ug/Kg		81	44 - 100
3,3'-Dichlorobenzidine	6670	5620		ug/Kg		84	39 - 100
2,4-Dichlorophenol	6670	5330		ug/Kg		80	39 - 106
Diethyl phthalate	6670	5470		ug/Kg		82	46 - 102
2,4-Dimethylphenol	6670	5200		ug/Kg		78	36 - 107
Dimethyl phthalate	6670	5440		ug/Kg		82	47 - 102
Di-n-butyl phthalate	6670	6150		ug/Kg		92	46 - 107
4,6-Dinitro-2-methylphenol	13300	10800		ug/Kg		81	43 - 107
2,4-Dinitrophenol	13300	10300		ug/Kg		78	33 - 106
2,4-Dinitrotoluene	6670	5890		ug/Kg		88	46 - 112
2,6-Dinitrotoluene	6670	5660		ug/Kg		85	48 - 104
Di-n-octyl phthalate	6670	6350		ug/Kg		95	41 - 105
1,4-Dioxane	6670	5100		ug/Kg		77	13 - 122
Fluoranthene	6670	5700		ug/Kg		86	43 - 106
Fluorene	6670	5490		ug/Kg		82	42 - 100
Hexachlorobenzene	6670	5270		ug/Kg		79	46 - 100
Hexachlorobutadiene	6670	4750		ug/Kg		71	42 - 102
Hexachlorocyclopentadiene	6670	5280		ug/Kg		79	35 - 110
Hexachloroethane	6670	5370		ug/Kg		81	38 - 100
Indeno[1,2,3-cd]pyrene	6670	6240		ug/Kg		94	41 - 110
Isophorone	6670	5200		ug/Kg		78	40 - 104
2-Methylnaphthalene	6670	5160		ug/Kg		77	42 - 100
2-Methylphenol	6670	5630		ug/Kg		84	34 - 106
Methylphenol, 3 & 4	6670	5560		ug/Kg		83	35 - 106
Naphthalene	6670	5280		ug/Kg		79	40 - 100
2-Nitroaniline	6670	5900		ug/Kg		88	40 - 114
3-Nitroaniline	6670	6100		ug/Kg		91	43 - 109
4-Nitroaniline	6670	5800		ug/Kg		87	37 - 115
Nitrobenzene	6670	5560		ug/Kg		83	38 - 104
2-Nitrophenol	6670	5850		ug/Kg		88	43 - 109
4-Nitrophenol	13300	11500		ug/Kg		86	22 - 140
N-Nitrosodi-n-propylamine	6670	5750		ug/Kg		86	39 - 103
N-Nitrosodiphenylamine	6670	5410		ug/Kg		81	43 - 100
2,2'-oxybis[1-chloropropane]	6670	5300		ug/Kg		80	27 - 104
Pentachlorophenol	13300	11400		ug/Kg		85	26 - 115
Phenanthrene	6670	5380		ug/Kg		81	43 - 100

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 180-219870/2-A
Matrix: Solid
Analysis Batch: 219886

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 219870

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Phenol			6670	5460		ug/Kg		82	30 - 105		
Pyrene			6670	5510		ug/Kg		83	42 - 100		
1,2,4,5-Tetrachlorobenzene			6670	4960		ug/Kg		74	41 - 100		
2,3,4,6-Tetrachlorophenol			6670	5280		ug/Kg		79	41 - 107		
2,4,5-Trichlorophenol			6670	5500		ug/Kg		83	44 - 103		
2,4,6-Trichlorophenol			6670	5740		ug/Kg		86	44 - 107		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*75*		*34 - 100*
2-Fluorophenol (Surr)	*79*		*24 - 109*
Nitrobenzene-d5 (Surr)	*80*		*31 - 105*
Phenol-d5 (Surr)	*79*		*24 - 106*
Terphenyl-d14 (Surr)	*78*		*34 - 104*
2,4,6-Tribromophenol (Surr)	*79*		*21 - 114*

Lab Sample ID: LCSD 180-219870/3-A
Matrix: Solid
Analysis Batch: 219886

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 219870

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene			6670	5430		ug/Kg		81	40 - 100	2	25
Acenaphthylene			6670	5440		ug/Kg		82	44 - 100	2	23
Acetophenone			6670	4710		ug/Kg		71	33 - 100	4	26
Anthracene			6670	5430		ug/Kg		81	45 - 100	3	26
Atrazine			6670	3740		ug/Kg		56	17 - 123	4	28
Benzaldehyde			6670	5770		ug/Kg		87	10 - 107	5	27
Benzo[a]anthracene			6670	5600		ug/Kg		84	45 - 100	1	20
Benzo[a]pyrene			6670	5390		ug/Kg		81	43 - 102	1	23
Benzo[b]fluoranthene			6670	5320		ug/Kg		80	40 - 100	0	24
Benzo[g,h,i]perylene			6670	6040		ug/Kg		91	41 - 110	0	22
Benzo[k]fluoranthene			6670	5530		ug/Kg		83	41 - 100	0	20
1,1'-Biphenyl			6670	5330		ug/Kg		80	41 - 100	1	26
Bis(2-chloroethoxy)methane			6670	5300		ug/Kg		79	41 - 100	1	33
Bis(2-chloroethyl)ether			6670	5640		ug/Kg		85	39 - 100	5	25
Bis(2-ethylhexyl) phthalate			6670	5920		ug/Kg		89	46 - 107	2	20
4-Bromophenyl phenyl ether			6670	5250		ug/Kg		79	46 - 101	0	27
Butyl benzyl phthalate			6670	6270		ug/Kg		94	45 - 108	1	20
Caprolactam			6670	6100		ug/Kg		91	40 - 114	2	29
Carbazole			6670	5550		ug/Kg		83	42 - 103	2	25
4-Chloroaniline			6670	5300		ug/Kg		80	42 - 100	1	30
4-Chloro-3-methylphenol			6670	5880		ug/Kg		88	39 - 109	1	31
2-Chloronaphthalene			6670	5240		ug/Kg		79	42 - 100	2	27
2-Chlorophenol			6670	5650		ug/Kg		85	35 - 105	1	23
4-Chlorophenyl phenyl ether			6670	5140		ug/Kg		77	46 - 100	1	24
Chrysene			6670	5380		ug/Kg		81	45 - 100	2	20
Dibenz(a,h)anthracene			6670	6360		ug/Kg		95	42 - 110	0	27
Dibenzofuran			6670	5450		ug/Kg		82	44 - 100	1	24
3,3'-Dichlorobenzidine			6670	5740		ug/Kg		86	39 - 100	2	22

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 180-219870/3-A
Matrix: Solid
Analysis Batch: 219886

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 219870

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,4-Dichlorophenol			6670	5190		ug/Kg		78	39 - 106	3	28
Diethyl phthalate			6670	5460		ug/Kg		82	46 - 102	0	24
2,4-Dimethylphenol			6670	5200		ug/Kg		78	36 - 107	0	29
Dimethyl phthalate			6670	5510		ug/Kg		83	47 - 102	1	26
Di-n-butyl phthalate			6670	6050		ug/Kg		91	46 - 107	2	25
4,6-Dinitro-2-methylphenol			13300	10600		ug/Kg		80	43 - 107	2	20
2,4-Dinitrophenol			13300	10400		ug/Kg		78	33 - 106	0	21
2,4-Dinitrotoluene			6670	5630		ug/Kg		84	46 - 112	5	24
2,6-Dinitrotoluene			6670	5780		ug/Kg		87	48 - 104	2	23
Di-n-octyl phthalate			6670	6340		ug/Kg		95	41 - 105	0	25
1,4-Dioxane			6670	5230		ug/Kg		78	13 - 122	2	20
Fluoranthene			6670	5580		ug/Kg		84	43 - 106	2	26
Fluorene			6670	5390		ug/Kg		81	42 - 100	2	26
Hexachlorobenzene			6670	5150		ug/Kg		77	46 - 100	2	25
Hexachlorobutadiene			6670	4770		ug/Kg		72	42 - 102	0	28
Hexachlorocyclopentadiene			6670	5360		ug/Kg		80	35 - 110	1	30
Hexachloroethane			6670	5440		ug/Kg		82	38 - 100	1	26
Indeno[1,2,3-cd]pyrene			6670	6250		ug/Kg		94	41 - 110	0	25
Isophorone			6670	5200		ug/Kg		78	40 - 104	0	30
2-Methylnaphthalene			6670	5120		ug/Kg		77	42 - 100	1	29
2-Methylphenol			6670	5760		ug/Kg		86	34 - 106	2	29
Methylphenol, 3 & 4			6670	5580		ug/Kg		84	35 - 106	0	27
Naphthalene			6670	5170		ug/Kg		78	40 - 100	2	27
2-Nitroaniline			6670	5920		ug/Kg		89	40 - 114	0	27
3-Nitroaniline			6670	6040		ug/Kg		91	43 - 109	1	29
4-Nitroaniline			6670	5840		ug/Kg		88	37 - 115	1	20
Nitrobenzene			6670	5310		ug/Kg		80	38 - 104	5	26
2-Nitrophenol			6670	5670		ug/Kg		85	43 - 109	3	29
4-Nitrophenol			13300	11800		ug/Kg		89	22 - 140	3	24
N-Nitrosodi-n-propylamine			6670	5760		ug/Kg		86	39 - 103	0	28
N-Nitrosodiphenylamine			6670	5310		ug/Kg		80	43 - 100	2	25
2,2'-oxybis[1-chloropropane]			6670	5580		ug/Kg		84	27 - 104	5	27
Pentachlorophenol			13300	11100		ug/Kg		84	26 - 115	2	29
Phenanthrene			6670	5230		ug/Kg		78	43 - 100	3	22
Phenol			6670	5630		ug/Kg		84	30 - 105	3	24
Pyrene			6670	5600		ug/Kg		84	42 - 100	1	20
1,2,4,5-Tetrachlorobenzene			6670	4980		ug/Kg		75	41 - 100	0	29
2,3,4,6-Tetrachlorophenol			6670	5380		ug/Kg		81	41 - 107	2	25
2,4,5-Trichlorophenol			6670	5430		ug/Kg		81	44 - 103	1	27
2,4,6-Trichlorophenol			6670	5810		ug/Kg		87	44 - 107	1	29

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*76*		*34 - 100*
2-Fluorophenol (Surr)	*84*		*24 - 109*
Nitrobenzene-d5 (Surr)	*79*		*31 - 105*
Phenol-d5 (Surr)	*83*		*24 - 106*
Terphenyl-d14 (Surr)	*80*		*34 - 104*
2,4,6-Tribromophenol (Surr)	*79*		*21 - 114*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 180-219927/1-A
Matrix: Solid
Analysis Batch: 220002

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 219927

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.017	0.0088	mg/Kg		08/14/17 03:48	08/14/17 22:04	1
PCB-1221	ND		0.017	0.0086	mg/Kg		08/14/17 03:48	08/14/17 22:04	1
PCB-1232	ND		0.017	0.0066	mg/Kg		08/14/17 03:48	08/14/17 22:04	1
PCB-1242	ND		0.017	0.013	mg/Kg		08/14/17 03:48	08/14/17 22:04	1
PCB-1248	ND		0.017	0.0080	mg/Kg		08/14/17 03:48	08/14/17 22:04	1
PCB-1254	ND		0.017	0.0073	mg/Kg		08/14/17 03:48	08/14/17 22:04	1
PCB-1260	ND		0.017	0.011	mg/Kg		08/14/17 03:48	08/14/17 22:04	1
PCB-1262	ND		0.017	0.012	mg/Kg		08/14/17 03:48	08/14/17 22:04	1
PCB-1268	ND		0.017	0.0051	mg/Kg		08/14/17 03:48	08/14/17 22:04	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*87*		*23 - 150*	*08/14/17 03:48*	*08/14/17 22:04*	*1*
DCB Decachlorobiphenyl (Surr)	*90*		*23 - 150*	*08/14/17 03:48*	*08/14/17 22:04*	*1*
Tetrachloro-m-xylene (Surr)	*94*		*27 - 138*	*08/14/17 03:48*	*08/14/17 22:04*	*1*
Tetrachloro-m-xylene (Surr)	*86*		*27 - 138*	*08/14/17 03:48*	*08/14/17 22:04*	*1*

Lab Sample ID: LCS 180-219927/4-A
Matrix: Solid
Analysis Batch: 220002

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 219927

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			1.33	1.24		mg/Kg		93	52 - 126		
PCB-1260			1.33	1.17		mg/Kg		88	50 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*90*		*23 - 150*
DCB Decachlorobiphenyl (Surr)	*95*		*23 - 150*
Tetrachloro-m-xylene (Surr)	*88*		*27 - 138*
Tetrachloro-m-xylene (Surr)	*76*		*27 - 138*

Lab Sample ID: LCSD 180-219927/5-A
Matrix: Solid
Analysis Batch: 220002

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 219927

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016			1.33	1.26		mg/Kg		94	52 - 126	2	20
PCB-1260			1.33	1.21		mg/Kg		91	50 - 130	4	21

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*86*		*23 - 150*
DCB Decachlorobiphenyl (Surr)	*89*		*23 - 150*
Tetrachloro-m-xylene (Surr)	*91*		*27 - 138*
Tetrachloro-m-xylene (Surr)	*81*		*27 - 138*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 180-219444/1-A
Matrix: Solid
Analysis Batch: 219768

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 219444

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		20	7.6	mg/Kg		08/08/17 14:08	08/10/17 15:03	1
Antimony	ND		1.0	0.35	mg/Kg		08/08/17 14:08	08/10/17 15:03	1
Arsenic	ND		1.0	0.44	mg/Kg		08/08/17 14:08	08/10/17 15:03	1
Barium	ND		20	5.4	mg/Kg		08/08/17 14:08	08/10/17 15:03	1
Beryllium	ND		0.40	0.10	mg/Kg		08/08/17 14:08	08/10/17 15:03	1
Cadmium	ND		0.50	0.11	mg/Kg		08/08/17 14:08	08/10/17 15:03	1
Calcium	ND		500	140	mg/Kg		08/08/17 14:08	08/10/17 15:03	1
Chromium	ND		0.50	0.13	mg/Kg		08/08/17 14:08	08/10/17 15:03	1
Cobalt	ND		5.0	1.1	mg/Kg		08/08/17 14:08	08/10/17 15:03	1
Copper	ND		2.5	0.77	mg/Kg		08/08/17 14:08	08/10/17 15:03	1
Iron	ND		10	5.5	mg/Kg		08/08/17 14:08	08/10/17 15:03	1
Lead	ND		1.0	0.33	mg/Kg		08/08/17 14:08	08/10/17 15:03	1
Magnesium	ND		500	130	mg/Kg		08/08/17 14:08	08/10/17 15:03	1
Manganese	ND		1.5	0.41	mg/Kg		08/08/17 14:08	08/10/17 15:03	1
Nickel	ND		4.0	0.90	mg/Kg		08/08/17 14:08	08/10/17 15:03	1
Potassium	ND		500	120	mg/Kg		08/08/17 14:08	08/10/17 15:03	1
Selenium	ND		1.0	0.40	mg/Kg		08/08/17 14:08	08/10/17 15:03	1
Silver	ND		0.50	0.17	mg/Kg		08/08/17 14:08	08/10/17 15:03	1
Sodium	ND		500	140	mg/Kg		08/08/17 14:08	08/10/17 15:03	1
Thallium	ND		2.0	0.50	mg/Kg		08/08/17 14:08	08/10/17 15:03	1
Vanadium	ND		5.0	1.6	mg/Kg		08/08/17 14:08	08/10/17 15:03	1
Zinc	ND		2.0	1.0	mg/Kg		08/08/17 14:08	08/10/17 15:03	1

Lab Sample ID: LCS 180-219444/2-A
Matrix: Solid
Analysis Batch: 219768

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 219444

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	200	199		mg/Kg		100	80 - 120
Antimony	50.0	49.3		mg/Kg		99	80 - 120
Arsenic	50.0	49.7		mg/Kg		99	80 - 120
Barium	200	199		mg/Kg		99	80 - 120
Beryllium	5.00	5.05		mg/Kg		101	80 - 120
Cadmium	5.00	4.87		mg/Kg		97	80 - 120
Calcium	5000	5000		mg/Kg		100	80 - 120
Chromium	20.0	19.6		mg/Kg		98	80 - 120
Cobalt	50.0	48.6		mg/Kg		97	80 - 120
Copper	25.0	24.7		mg/Kg		99	80 - 120
Iron	100	102		mg/Kg		102	80 - 120
Lead	50.0	46.9		mg/Kg		94	80 - 120
Magnesium	5000	4930		mg/Kg		99	80 - 120
Manganese	50.0	48.7		mg/Kg		97	80 - 120
Nickel	50.0	48.1		mg/Kg		96	80 - 120
Potassium	5000	4880		mg/Kg		98	80 - 120
Selenium	50.0	48.7		mg/Kg		97	80 - 120
Silver	5.00	4.94		mg/Kg		99	80 - 120
Sodium	5000	5010		mg/Kg		100	80 - 120
Thallium	50.0	46.2		mg/Kg		92	80 - 120

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCS 180-219444/2-A
Matrix: Solid
Analysis Batch: 219768

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 219444

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Vanadium	50.0	50.0		mg/Kg		100	80 - 120
Zinc	50.0	47.9		mg/Kg		96	80 - 120

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 180-220564/1-A
Matrix: Solid
Analysis Batch: 220613

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 220564

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.033	0.0074	mg/Kg		08/18/17 15:34	08/19/17 12:38	1

Lab Sample ID: LCS 180-220564/2-A
Matrix: Solid
Analysis Batch: 220613

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 220564

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.417	0.411		mg/Kg		99	80 - 120

GC/MS Semi VOA

Prep Batch: 219870

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68927-1	EDGER SIDEWALL	Total/NA	Solid	3541	
MB 180-219870/1-A	Method Blank	Total/NA	Solid	3541	
LCS 180-219870/2-A	Lab Control Sample	Total/NA	Solid	3541	
LCSD 180-219870/3-A	Lab Control Sample Dup	Total/NA	Solid	3541	

Analysis Batch: 219886

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68927-1	EDGER SIDEWALL	Total/NA	Solid	8270D	219870
MB 180-219870/1-A	Method Blank	Total/NA	Solid	8270D	219870
LCS 180-219870/2-A	Lab Control Sample	Total/NA	Solid	8270D	219870
LCSD 180-219870/3-A	Lab Control Sample Dup	Total/NA	Solid	8270D	219870

GC Semi VOA

Prep Batch: 219927

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68927-1	EDGER SIDEWALL	Total/NA	Solid	3541	
180-68927-2	NE EDGER TRENCH PIPE	Total/NA	Solid	3541	
MB 180-219927/1-A	Method Blank	Total/NA	Solid	3541	
LCS 180-219927/4-A	Lab Control Sample	Total/NA	Solid	3541	
LCSD 180-219927/5-A	Lab Control Sample Dup	Total/NA	Solid	3541	

Cleanup Batch: 219988

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68927-1	EDGER SIDEWALL	Total/NA	Solid	3665A	219927
180-68927-2	NE EDGER TRENCH PIPE	Total/NA	Solid	3665A	219927

Cleanup Batch: 219989

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68927-1	EDGER SIDEWALL	Total/NA	Solid	3660B	219988
180-68927-2	NE EDGER TRENCH PIPE	Total/NA	Solid	3660B	219988

Analysis Batch: 220002

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68927-1	EDGER SIDEWALL	Total/NA	Solid	8082A	219989
180-68927-2	NE EDGER TRENCH PIPE	Total/NA	Solid	8082A	219989
MB 180-219927/1-A	Method Blank	Total/NA	Solid	8082A	219927
LCS 180-219927/4-A	Lab Control Sample	Total/NA	Solid	8082A	219927
LCSD 180-219927/5-A	Lab Control Sample Dup	Total/NA	Solid	8082A	219927

Metals

Prep Batch: 219444

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68927-1	EDGER SIDEWALL	Total/NA	Solid	3050B	
180-68927-2	NE EDGER TRENCH PIPE	Total/NA	Solid	3050B	
MB 180-219444/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 180-219444/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Metals (Continued)

Analysis Batch: 219768

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68927-1	EDGER SIDEWALL	Total/NA	Solid	6010C	219444
180-68927-2	NE EDGER TRENCH PIPE	Total/NA	Solid	6010C	219444
MB 180-219444/1-A	Method Blank	Total/NA	Solid	6010C	219444
LCS 180-219444/2-A	Lab Control Sample	Total/NA	Solid	6010C	219444

Prep Batch: 220564

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68927-1	EDGER SIDEWALL	Total/NA	Solid	7471B	
180-68927-2	NE EDGER TRENCH PIPE	Total/NA	Solid	7471B	
MB 180-220564/1-A	Method Blank	Total/NA	Solid	7471B	
LCS 180-220564/2-A	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 220613

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68927-1	EDGER SIDEWALL	Total/NA	Solid	7471B	220564
180-68927-2	NE EDGER TRENCH PIPE	Total/NA	Solid	7471B	220564
MB 180-220564/1-A	Method Blank	Total/NA	Solid	7471B	220564
LCS 180-220564/2-A	Lab Control Sample	Total/NA	Solid	7471B	220564

General Chemistry

Analysis Batch: 219574

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68927-1	EDGER SIDEWALL	Total/NA	Solid	2540G	
180-68927-2	NE EDGER TRENCH PIPE	Total/NA	Solid	2540G	

TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
phone 412.963.7058 fax 412.963.2468

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☑ Other:

Client Contact	Project Manager: Aron Krasnopoler	Site Contact: Ashwin Ranna/Ellen Buelow	Date: 8/3/17	COC No:
Geosyntec Consultants	Tel/Fax: 401-381-4333	Lab Contact: Dave Dunlap	Carrier: FedEx	1 of 1 COCs
10211 Wincopin Circle, 4th Floor	**Analysis Turnaround Time**			Sampler:
Columbia, MD 21044	☐ CALENDAR DAYS ☑ WORKING DAYS			**For Lab Use Only:**
410-381-4333 Phone	TAT if different from Below (Standard TAT)			Walk-in Client:
410-381-4499 FAX	☐ 2 weeks			Lab Sampling:
Project Name: Former Sperry Remington Site - North	☐ 1 week			
Site: Elmira	☐ 2 days			Job / SDG No.:
P O # MN0832B	☑ ~~1 day~~ (JP)			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	8260C - VOA- Select List	6010C, 7471B, 9014	8082A, 8270D_LL	8260C_LL-VOA-Select List	8082A - PCBs	Sample Specific Notes:
EDGER Sidewall	8/3/17	1530	C	soil	2	N	N		X	X			Standard TAT
NE EDGER Trench Pipe	8/3/17	1500	G	soil	2	N	N		X			X	

(JP)

180-68927 Chain of Custody

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____ 1

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for_____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: 423458 | Cooler Temp. (°C): Obs'd: _____ Corr'd: _____ Therm ID No.: _____

	Company:	Date/Time:		Company:	Date/Time:
Relinquished by:	Geosyntec	8/3/17 - 1830	Received by:	TASPT	8/4/17 0800
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Form No. CA-C-WI-002, Rev. 4.3, dated 12/05/2013

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 180-68927-1

Login Number: 68927
List Number: 1
Creator: Neri, Tom

List Source: TestAmerica Pittsburgh

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

TestAmerica Job ID: 180-68986-1
Client Project/Site: Former Sperry Remington Site - North IRM

For:
Geosyntec Consultants, Inc.
10211 Wincopin Circle
4'th Floor
Columbia, Maryland 21044

Attn: Mr. Aron Krasnopoler

Authorized for release by:
8/16/2017 3:36:28 PM

David Dunlap, Senior Project Manager
(412)963-2432
david.dunlap@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Job ID: 180-68986-1

Laboratory: TestAmerica Pittsburgh

Narrative

Job Narrative
180-68986-1

Receipt
The samples were received on 8/5/2017 9:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 1.0º C and 4.4º C.

The following volatile samples were received with small air bubbles approximately 6 mm diameter in each of the vials: TRIP BLANK #1 (180-68986-10) and TRIP BLANK #2 (180-68986-11).

GC/MS VOA
Method(s) 8260C: The continuing calibration verification (CCV) analyzed in 180-219248 was above criteria for the following analyte: 1,1,1-trichloroethane. As the CCV was high and this analyte was not detected in the associated samples, the results were reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method(s) 8270D: The continuing calibration verification (CCV) analyzed in 180-219660 was above criteria for the following analyte: pyridine. As the CCV was high and this analyte was not detected in the associated samples, the results were reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
Method(s) 8082A: The following samples was diluted to bring the concentration of target analytes within the calibration range: W5-b, S5, C 08.04.17 (180-68986-9). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Definitions/Glossary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68986-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc. TestAmerica Job ID: 180-68986-1
Project/Site: Former Sperry Remington Site - North IRM

Laboratory: TestAmerica Pittsburgh

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	11182	03-31-18

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
2540G		Solid	Percent Moisture
2540G		Solid	Percent Solids
8270D	3520C	Water	1,4-Dioxane
8270D LL	3541	Solid	1,4-Dioxane

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68986-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-68986-1	EQ BLK #1 08.03.17	Water	08/03/17 13:40	08/05/17 09:00
180-68986-2	EQ BLK #2 08.04.17	Water	08/04/17 07:00	08/05/17 09:00
180-68986-7	W5-b, S5, A 08.04.17	Solid	08/04/17 10:55	08/05/17 09:00
180-68986-8	W5-b, S5, B 08.04.17	Solid	08/04/17 11:05	08/05/17 09:00
180-68986-9	W5-b, S5, C 08.04.17	Solid	08/04/17 11:10	08/05/17 09:00
180-68986-10	TRIP BLANK #1	Water	08/04/17 00:00	08/05/17 09:00
180-68986-11	TRIP BLANK #2	Water	08/04/17 00:00	08/05/17 09:00

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68986-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds (GC/MS)	SW846	TAL PIT
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL PIT
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL PIT
8270D LL	Semivolatile Organic Compounds by GC/MS - Low Level	SW846	TAL PIT
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL PIT
6010C	Metals (ICP)	SW846	TAL PIT
7470A	Mercury (CVAA)	SW846	TAL PIT
7471B	Mercury (CVAA)	SW846	TAL PIT
2540G	SM 2540G	SM22	TAL PIT
9014	Cyanide	SW846	TAL PIT

Protocol References:

SM22 = SM22

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68986-1

Client Sample ID: EQ BLK #1 08.03.17

Date Collected: 08/03/17 13:40
Date Received: 08/05/17 09:00

Lab Sample ID: 180-68986-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	219341	08/08/17 05:56	FBB	TAL PIT
	Instrument ID: CHHP5									
Total/NA	Prep	3520C			240 mL	2.5 mL	219432	08/08/17 11:53	BJT	TAL PIT
Total/NA	Analysis	8270D		1	1 mL	1 mL	219660	08/10/17 18:18	VVP	TAL PIT
	Instrument ID: CH732									
Total/NA	Prep	3510C			240 mL	10.0 mL	219453	08/08/17 13:10	CBY	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	219502	08/09/17 05:31	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	219504	08/09/17 05:32	JMO	TAL PIT
Total/NA	Analysis	8082A		1			219515	08/09/17 11:53	JMO	TAL PIT
	Instrument ID: CHGC8									
Total Recoverable	Prep	3005A			50 mL	50 mL	219379	08/08/17 08:08	SES	TAL PIT
Total Recoverable	Analysis	6010C		1			219637	08/09/17 13:29	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7470A			50 mL	50 mL	219569	08/09/17 12:32	RJR	TAL PIT
Total/NA	Analysis	7470A		1			219697	08/10/17 09:33	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			50 mL	50 mL	219686	08/10/17 12:11	JAS	TAL PIT
Total/NA	Analysis	9014		1			219797	08/10/17 16:54	JAS	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: EQ BLK #2 08.04.17

Date Collected: 08/04/17 07:00
Date Received: 08/05/17 09:00

Lab Sample ID: 180-68986-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	219341	08/08/17 06:20	FBB	TAL PIT
	Instrument ID: CHHP5									
Total/NA	Prep	3520C			260 mL	2.5 mL	219432	08/08/17 11:53	BJT	TAL PIT
Total/NA	Analysis	8270D		1	1 mL	1 mL	219660	08/10/17 18:45	VVP	TAL PIT
	Instrument ID: CH732									
Total/NA	Prep	3510C			240 mL	10.0 mL	219453	08/08/17 13:10	CBY	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	219502	08/09/17 05:31	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	219504	08/09/17 05:32	JMO	TAL PIT
Total/NA	Analysis	8082A		1			219515	08/09/17 12:13	JMO	TAL PIT
	Instrument ID: CHGC8									
Total Recoverable	Prep	3005A			50 mL	50 mL	219379	08/08/17 08:08	SES	TAL PIT
Total Recoverable	Analysis	6010C		1			219637	08/09/17 13:34	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7470A			50 mL	50 mL	219569	08/09/17 12:32	RJR	TAL PIT
Total/NA	Analysis	7470A		1			219697	08/10/17 09:35	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			50 mL	50 mL	219686	08/10/17 12:11	JAS	TAL PIT
Total/NA	Analysis	9014		1			219797	08/10/17 16:55	JAS	TAL PIT
	Instrument ID: SEAL2									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68986-1

Client Sample ID: W5-b, S5, A 08.04.17
Date Collected: 08/04/17 10:55
Date Received: 08/05/17 09:00

Lab Sample ID: 180-68986-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			219454	08/08/17 14:36	MTW	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W5-b, S5, A 08.04.17
Date Collected: 08/04/17 10:55
Date Received: 08/05/17 09:00

Lab Sample ID: 180-68986-7
Matrix: Solid
Percent Solids: 87.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.8739 g	5 mL	219255	08/07/17 05:30	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	219248	08/07/17 09:02	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W5-b, S5, B 08.04.17
Date Collected: 08/04/17 11:05
Date Received: 08/05/17 09:00

Lab Sample ID: 180-68986-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			219454	08/08/17 14:36	MTW	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W5-b, S5, B 08.04.17
Date Collected: 08/04/17 11:05
Date Received: 08/05/17 09:00

Lab Sample ID: 180-68986-8
Matrix: Solid
Percent Solids: 89.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.5983 g	5 mL	219255	08/07/17 05:30	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	219248	08/07/17 10:54	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: W5-b, S5, C 08.04.17
Date Collected: 08/04/17 11:10
Date Received: 08/05/17 09:00

Lab Sample ID: 180-68986-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			219454	08/08/17 14:36	MTW	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: W5-b, S5, C 08.04.17
Date Collected: 08/04/17 11:10
Date Received: 08/05/17 09:00

Lab Sample ID: 180-68986-9
Matrix: Solid
Percent Solids: 90.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	0.5 mL	220050	08/15/17 03:27	BAP	TAL PIT

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68986-1

Client Sample ID: W5-b, S5, C 08.04.17

Date Collected: 08/04/17 11:10
Date Received: 08/05/17 09:00

Lab Sample ID: 180-68986-9

Matrix: Solid
Percent Solids: 90.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8270D LL		1	1 mL	1 mL	220091	08/15/17 19:46	VVP	TAL PIT
	Instrument ID: CH731									
Total/NA	Prep	3541			15.0 g	20.0 mL	220051	08/15/17 03:35	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	220101	08/15/17 09:23	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	220102	08/15/17 09:24	JMO	TAL PIT
Total/NA	Analysis	8082A		5			220173	08/16/17 11:19	JMO	TAL PIT
	Instrument ID: CHGC10									
Total/NA	Prep	3050B			0.99 g	100 mL	219443	08/08/17 14:03	SES	TAL PIT
Total/NA	Analysis	6010C		1			219711	08/10/17 12:24	RJG	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.78 g	100 mL	219480	08/08/17 17:30	RJR	TAL PIT
Total/NA	Analysis	7471B		1			219600	08/09/17 11:54	RJR	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.12 g	50 mL	219684	08/10/17 12:11	JAS	TAL PIT
Total/NA	Analysis	9014		1			219797	08/10/17 15:37	JAS	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: TRIP BLANK #1

Date Collected: 08/04/17 00:00
Date Received: 08/05/17 09:00

Lab Sample ID: 180-68986-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	219341	08/08/17 06:44	FBB	TAL PIT
	Instrument ID: CHHP5									

Client Sample ID: TRIP BLANK #2

Date Collected: 08/04/17 00:00
Date Received: 08/05/17 09:00

Lab Sample ID: 180-68986-11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	219341	08/08/17 07:07	FBB	TAL PIT
	Instrument ID: CHHP5									

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68986-1

Analyst References:

Lab: TAL PIT

Batch Type: Cleanup

JMO = John Oravec

Batch Type: Prep

BAP = Brian Pino

BJT = Bill Trout

CBY = Charles Yushinski

JAS = Joshua Schmidt

KLG = Kathy Gordon

RJR = Ron Rosenbaum

SES = Samantha Strauser

Batch Type: Analysis

FBB = Frank Bungard

JAS = Joshua Schmidt

JMO = John Oravec

KLG = Kathy Gordon

MTW = Michael Wesoloski

RJG = Rob Good

RJR = Ron Rosenbaum

VVP = Vincent Piccolino

Client Sample ID: EQ BLK #1 08.03.17

Date Collected: 08/03/17 13:40
Date Received: 08/05/17 09:00

Lab Sample ID: 180-68986-1
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		5.0	3.1	ug/L			08/08/17 05:56	1
Benzene	ND		1.0	0.18	ug/L			08/08/17 05:56	1
2-Butanone (MEK)	ND		5.0	2.6	ug/L			08/08/17 05:56	1
Carbon tetrachloride	ND		1.0	0.56	ug/L			08/08/17 05:56	1
Chlorobenzene	ND		1.0	0.15	ug/L			08/08/17 05:56	1
Chloroform	ND		1.0	0.27	ug/L			08/08/17 05:56	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			08/08/17 05:56	1
1,2-Dichlorobenzene	ND		1.0	0.23	ug/L			08/08/17 05:56	1
1,3-Dichlorobenzene	ND		1.0	0.21	ug/L			08/08/17 05:56	1
1,4-Dichlorobenzene	ND		1.0	0.24	ug/L			08/08/17 05:56	1
1,1-Dichloroethane	ND		1.0	0.34	ug/L			08/08/17 05:56	1
1,2-Dichloroethane	ND		1.0	0.24	ug/L			08/08/17 05:56	1
1,1-Dichloroethene	ND		1.0	0.32	ug/L			08/08/17 05:56	1
Ethylbenzene	ND		1.0	0.25	ug/L			08/08/17 05:56	1
Methylene Chloride	ND		1.0	0.94	ug/L			08/08/17 05:56	1
Methyl tert-butyl ether	ND		1.0	0.20	ug/L			08/08/17 05:56	1
n-Butylbenzene	ND		1.0	0.22	ug/L			08/08/17 05:56	1
N-Propylbenzene	ND		1.0	0.20	ug/L			08/08/17 05:56	1
sec-Butylbenzene	ND		1.0	0.22	ug/L			08/08/17 05:56	1
tert-Butylbenzene	ND		1.0	0.17	ug/L			08/08/17 05:56	1
Tetrachloroethene	ND		1.0	0.24	ug/L			08/08/17 05:56	1
Toluene	ND		1.0	0.16	ug/L			08/08/17 05:56	1
trans-1,2-Dichloroethene	ND		1.0	0.20	ug/L			08/08/17 05:56	1
1,1,1-Trichloroethane	ND		1.0	0.27	ug/L			08/08/17 05:56	1
Trichloroethene	ND		1.0	0.20	ug/L			08/08/17 05:56	1
1,2,4-Trimethylbenzene	ND		1.0	0.18	ug/L			08/08/17 05:56	1
1,3,5-Trimethylbenzene	ND		1.0	0.17	ug/L			08/08/17 05:56	1
Vinyl chloride	ND		1.0	0.17	ug/L			08/08/17 05:56	1
Xylenes, Total	ND		2.0	0.27	ug/L			08/08/17 05:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*72 - 120*		*08/08/17 05:56*	*1*
Dibromofluoromethane (Surr)	*96*		*77 - 127*		*08/08/17 05:56*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*72 - 134*		*08/08/17 05:56*	*1*
Toluene-d8 (Surr)	*84*		*80 - 120*		*08/08/17 05:56*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		2.0	0.75	ug/L		08/08/17 11:53	08/10/17 18:18	1
Acenaphthylene	ND		2.0	0.63	ug/L		08/08/17 11:53	08/10/17 18:18	1
Anthracene	ND		2.0	0.58	ug/L		08/08/17 11:53	08/10/17 18:18	1
Benzo[a]anthracene	ND		2.0	1.2	ug/L		08/08/17 11:53	08/10/17 18:18	1
Benzo[a]pyrene	ND		2.0	0.93	ug/L		08/08/17 11:53	08/10/17 18:18	1
Benzo[b]fluoranthene	ND		2.0	0.69	ug/L		08/08/17 11:53	08/10/17 18:18	1
Benzo[g,h,i]perylene	ND		2.0	0.85	ug/L		08/08/17 11:53	08/10/17 18:18	1
Benzo[k]fluoranthene	ND		2.0	1.9	ug/L		08/08/17 11:53	08/10/17 18:18	1
Chrysene	ND		2.0	0.87	ug/L		08/08/17 11:53	08/10/17 18:18	1
Dibenz(a,h)anthracene	ND		2.0	0.81	ug/L		08/08/17 11:53	08/10/17 18:18	1
Dibenzofuran	ND		10	1.2	ug/L		08/08/17 11:53	08/10/17 18:18	1
2,4-Dinitrotoluene	ND		10	1.4	ug/L		08/08/17 11:53	08/10/17 18:18	1

Client Sample ID: EQ BLK #1 08.03.17
Date Collected: 08/03/17 13:40
Date Received: 08/05/17 09:00

Lab Sample ID: 180-68986-1
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		21	3.9	ug/L		08/08/17 11:53	08/10/17 18:18	1
Fluoranthene	ND		2.0	1.3	ug/L		08/08/17 11:53	08/10/17 18:18	1
Fluorene	ND		2.0	1.2	ug/L		08/08/17 11:53	08/10/17 18:18	1
Hexachlorobenzene	ND		2.0	1.1	ug/L		08/08/17 11:53	08/10/17 18:18	1
Hexachlorobutadiene	ND		2.0	0.59	ug/L		08/08/17 11:53	08/10/17 18:18	1
Hexachloroethane	ND		10	0.74	ug/L		08/08/17 11:53	08/10/17 18:18	1
Indeno[1,2,3-cd]pyrene	ND		2.0	0.80	ug/L		08/08/17 11:53	08/10/17 18:18	1
2-Methylphenol	ND		10	2.4	ug/L		08/08/17 11:53	08/10/17 18:18	1
Methylphenol, 3 & 4	ND		10	2.5	ug/L		08/08/17 11:53	08/10/17 18:18	1
Naphthalene	ND		2.0	1.8	ug/L		08/08/17 11:53	08/10/17 18:18	1
Nitrobenzene	ND		21	1.4	ug/L		08/08/17 11:53	08/10/17 18:18	1
Pentachlorophenol	ND		52	2.8	ug/L		08/08/17 11:53	08/10/17 18:18	1
Phenanthrene	ND		2.0	1.3	ug/L		08/08/17 11:53	08/10/17 18:18	1
Phenol	ND		10	3.1	ug/L		08/08/17 11:53	08/10/17 18:18	1
Pyrene	ND		2.0	0.95	ug/L		08/08/17 11:53	08/10/17 18:18	1
Pyridine	ND		10	4.5	ug/L		08/08/17 11:53	08/10/17 18:18	1
2,4,5-Trichlorophenol	ND		10	0.63	ug/L		08/08/17 11:53	08/10/17 18:18	1
2,4,6-Trichlorophenol	ND		10	0.77	ug/L		08/08/17 11:53	08/10/17 18:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*60*		*35 - 100*	*08/08/17 11:53*	*08/10/17 18:18*	*1*
2-Fluorophenol (Surr)	*57*		*22 - 100*	*08/08/17 11:53*	*08/10/17 18:18*	*1*
Nitrobenzene-d5 (Surr)	*56*		*29 - 100*	*08/08/17 11:53*	*08/10/17 18:18*	*1*
Phenol-d5 (Surr)	*54*		*25 - 100*	*08/08/17 11:53*	*08/10/17 18:18*	*1*
Terphenyl-d14 (Surr)	*67*		*20 - 116*	*08/08/17 11:53*	*08/10/17 18:18*	*1*
2,4,6-Tribromophenol (Surr)	*74*		*28 - 103*	*08/08/17 11:53*	*08/10/17 18:18*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.42	0.14	ug/L		08/08/17 13:10	08/09/17 11:53	1
PCB-1221	ND		0.42	0.38	ug/L		08/08/17 13:10	08/09/17 11:53	1
PCB-1232	ND		0.42	0.14	ug/L		08/08/17 13:10	08/09/17 11:53	1
PCB-1242	ND		0.42	0.39	ug/L		08/08/17 13:10	08/09/17 11:53	1
PCB-1248	ND		0.42	0.29	ug/L		08/08/17 13:10	08/09/17 11:53	1
PCB-1254	ND		0.42	0.21	ug/L		08/08/17 13:10	08/09/17 11:53	1
PCB-1260	ND		0.42	0.24	ug/L		08/08/17 13:10	08/09/17 11:53	1
PCB-1262	ND		0.42	0.28	ug/L		08/08/17 13:10	08/09/17 11:53	1
PCB-1268	ND		0.42	0.28	ug/L		08/08/17 13:10	08/09/17 11:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*87*		*52 - 131*	*08/08/17 13:10*	*08/09/17 11:53*	*1*
DCB Decachlorobiphenyl (Surr)	*92*		*52 - 131*	*08/08/17 13:10*	*08/09/17 11:53*	*1*
Tetrachloro-m-xylene (Surr)	*99*		*50 - 124*	*08/08/17 13:10*	*08/09/17 11:53*	*1*
Tetrachloro-m-xylene (Surr)	*89*		*50 - 124*	*08/08/17 13:10*	*08/09/17 11:53*	*1*

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		10	4.1	ug/L		08/08/17 08:08	08/09/17 13:29	1
Barium	ND		200	1.1	ug/L		08/08/17 08:08	08/09/17 13:29	1
Beryllium	ND		4.0	0.33	ug/L		08/08/17 08:08	08/09/17 13:29	1

Client Sample ID: EQ BLK #1 08.03.17 — Lab Sample ID: 180-68986-1

Date Collected: 08/03/17 13:40 — **Matrix: Water**
Date Received: 08/05/17 09:00

Method: 6010C - Metals (ICP) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		5.0	0.16	ug/L		08/08/17 08:08	08/09/17 13:29	1
Chromium	ND		5.0	0.78	ug/L		08/08/17 08:08	08/09/17 13:29	1
Copper	ND		25	2.2	ug/L		08/08/17 08:08	08/09/17 13:29	1
Lead	ND		10	2.9	ug/L		08/08/17 08:08	08/09/17 13:29	1
Manganese	ND		15	2.7	ug/L		08/08/17 08:08	08/09/17 13:29	1
Nickel	ND		40	1.5	ug/L		08/08/17 08:08	08/09/17 13:29	1
Selenium	ND		10	3.6	ug/L		08/08/17 08:08	08/09/17 13:29	1
Silver	ND		5.0	0.85	ug/L		08/08/17 08:08	08/09/17 13:29	1
Zinc	ND		20	5.8	ug/L		08/08/17 08:08	08/09/17 13:29	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.065	ug/L		08/09/17 12:32	08/10/17 09:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		10	3.3	ug/L		08/10/17 12:11	08/10/17 16:54	1

Client Sample ID: EQ BLK #2 08.04.17 — Lab Sample ID: 180-68986-2

Date Collected: 08/04/17 07:00 — **Matrix: Water**
Date Received: 08/05/17 09:00

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		5.0	3.1	ug/L			08/08/17 06:20	1
Benzene	ND		1.0	0.18	ug/L			08/08/17 06:20	1
2-Butanone (MEK)	ND		5.0	2.6	ug/L			08/08/17 06:20	1
Carbon tetrachloride	ND		1.0	0.56	ug/L			08/08/17 06:20	1
Chlorobenzene	ND		1.0	0.15	ug/L			08/08/17 06:20	1
Chloroform	ND		1.0	0.27	ug/L			08/08/17 06:20	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			08/08/17 06:20	1
1,2-Dichlorobenzene	ND		1.0	0.23	ug/L			08/08/17 06:20	1
1,3-Dichlorobenzene	ND		1.0	0.21	ug/L			08/08/17 06:20	1
1,4-Dichlorobenzene	ND		1.0	0.24	ug/L			08/08/17 06:20	1
1,1-Dichloroethane	ND		1.0	0.34	ug/L			08/08/17 06:20	1
1,2-Dichloroethane	ND		1.0	0.24	ug/L			08/08/17 06:20	1
1,1-Dichloroethene	ND		1.0	0.32	ug/L			08/08/17 06:20	1
Ethylbenzene	ND		1.0	0.25	ug/L			08/08/17 06:20	1
Methylene Chloride	ND		1.0	0.94	ug/L			08/08/17 06:20	1
Methyl tert-butyl ether	ND		1.0	0.20	ug/L			08/08/17 06:20	1
n-Butylbenzene	ND		1.0	0.22	ug/L			08/08/17 06:20	1
N-Propylbenzene	ND		1.0	0.20	ug/L			08/08/17 06:20	1
sec-Butylbenzene	ND		1.0	0.22	ug/L			08/08/17 06:20	1
tert-Butylbenzene	ND		1.0	0.17	ug/L			08/08/17 06:20	1
Tetrachloroethene	ND		1.0	0.24	ug/L			08/08/17 06:20	1
Toluene	ND		1.0	0.16	ug/L			08/08/17 06:20	1
trans-1,2-Dichloroethene	ND		1.0	0.20	ug/L			08/08/17 06:20	1
1,1,1-Trichloroethane	ND		1.0	0.27	ug/L			08/08/17 06:20	1
Trichloroethene	ND		1.0	0.20	ug/L			08/08/17 06:20	1
1,2,4-Trimethylbenzene	ND		1.0	0.18	ug/L			08/08/17 06:20	1

Client Sample ID: EQ BLK #2 08.04.17

Date Collected: 08/04/17 07:00
Date Received: 08/05/17 09:00

Lab Sample ID: 180-68986-2

Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	ND		1.0	0.17	ug/L			08/08/17 06:20	1
Vinyl chloride	ND		1.0	0.17	ug/L			08/08/17 06:20	1
Xylenes, Total	ND		2.0	0.27	ug/L			08/08/17 06:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*72 - 120*		*08/08/17 06:20*	*1*
Dibromofluoromethane (Surr)	*96*		*77 - 127*		*08/08/17 06:20*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*72 - 134*		*08/08/17 06:20*	*1*
Toluene-d8 (Surr)	*90*		*80 - 120*		*08/08/17 06:20*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		1.8	0.70	ug/L		08/08/17 11:53	08/10/17 18:45	1
Acenaphthylene	ND		1.8	0.58	ug/L		08/08/17 11:53	08/10/17 18:45	1
Anthracene	ND		1.8	0.54	ug/L		08/08/17 11:53	08/10/17 18:45	1
Benzo[a]anthracene	ND		1.8	1.1	ug/L		08/08/17 11:53	08/10/17 18:45	1
Benzo[a]pyrene	ND		1.8	0.85	ug/L		08/08/17 11:53	08/10/17 18:45	1
Benzo[b]fluoranthene	ND		1.8	0.63	ug/L		08/08/17 11:53	08/10/17 18:45	1
Benzo[g,h,i]perylene	ND		1.8	0.78	ug/L		08/08/17 11:53	08/10/17 18:45	1
Benzo[k]fluoranthene	ND		1.8	1.8	ug/L		08/08/17 11:53	08/10/17 18:45	1
Chrysene	ND		1.8	0.81	ug/L		08/08/17 11:53	08/10/17 18:45	1
Dibenz(a,h)anthracene	ND		1.8	0.75	ug/L		08/08/17 11:53	08/10/17 18:45	1
Dibenzofuran	ND		9.6	1.1	ug/L		08/08/17 11:53	08/10/17 18:45	1
2,4-Dinitrotoluene	ND		9.6	1.3	ug/L		08/08/17 11:53	08/10/17 18:45	1
1,4-Dioxane	ND		19	3.6	ug/L		08/08/17 11:53	08/10/17 18:45	1
Fluoranthene	ND		1.8	1.2	ug/L		08/08/17 11:53	08/10/17 18:45	1
Fluorene	ND		1.8	1.1	ug/L		08/08/17 11:53	08/10/17 18:45	1
Hexachlorobenzene	ND		1.8	1.0	ug/L		08/08/17 11:53	08/10/17 18:45	1
Hexachlorobutadiene	ND		1.8	0.55	ug/L		08/08/17 11:53	08/10/17 18:45	1
Hexachloroethane	ND		9.6	0.68	ug/L		08/08/17 11:53	08/10/17 18:45	1
Indeno[1,2,3-cd]pyrene	ND		1.8	0.74	ug/L		08/08/17 11:53	08/10/17 18:45	1
2-Methylphenol	ND		9.6	2.3	ug/L		08/08/17 11:53	08/10/17 18:45	1
Methylphenol, 3 & 4	ND		9.6	2.3	ug/L		08/08/17 11:53	08/10/17 18:45	1
Naphthalene	ND		1.8	1.7	ug/L		08/08/17 11:53	08/10/17 18:45	1
Nitrobenzene	ND		19	1.3	ug/L		08/08/17 11:53	08/10/17 18:45	1
Pentachlorophenol	ND		48	2.6	ug/L		08/08/17 11:53	08/10/17 18:45	1
Phenanthrene	ND		1.8	1.2	ug/L		08/08/17 11:53	08/10/17 18:45	1
Phenol	ND		9.6	2.9	ug/L		08/08/17 11:53	08/10/17 18:45	1
Pyrene	ND		1.8	0.88	ug/L		08/08/17 11:53	08/10/17 18:45	1
Pyridine	ND		9.6	4.2	ug/L		08/08/17 11:53	08/10/17 18:45	1
2,4,5-Trichlorophenol	ND		9.6	0.58	ug/L		08/08/17 11:53	08/10/17 18:45	1
2,4,6-Trichlorophenol	ND		9.6	0.71	ug/L		08/08/17 11:53	08/10/17 18:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*61*		*35 - 100*	*08/08/17 11:53*	*08/10/17 18:45*	*1*
2-Fluorophenol (Surr)	*56*		*22 - 100*	*08/08/17 11:53*	*08/10/17 18:45*	*1*
Nitrobenzene-d5 (Surr)	*57*		*29 - 100*	*08/08/17 11:53*	*08/10/17 18:45*	*1*
Phenol-d5 (Surr)	*53*		*25 - 100*	*08/08/17 11:53*	*08/10/17 18:45*	*1*
Terphenyl-d14 (Surr)	*65*		*20 - 116*	*08/08/17 11:53*	*08/10/17 18:45*	*1*
2,4,6-Tribromophenol (Surr)	*76*		*28 - 103*	*08/08/17 11:53*	*08/10/17 18:45*	*1*

Client Sample ID: EQ BLK #2 08.04.17

Lab Sample ID: 180-68986-2

Date Collected: 08/04/17 07:00

Matrix: Water

Date Received: 08/05/17 09:00

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.42	0.14	ug/L		08/08/17 13:10	08/09/17 12:13	1
PCB-1221	ND		0.42	0.38	ug/L		08/08/17 13:10	08/09/17 12:13	1
PCB-1232	ND		0.42	0.14	ug/L		08/08/17 13:10	08/09/17 12:13	1
PCB-1242	ND		0.42	0.39	ug/L		08/08/17 13:10	08/09/17 12:13	1
PCB-1248	ND		0.42	0.29	ug/L		08/08/17 13:10	08/09/17 12:13	1
PCB-1254	ND		0.42	0.21	ug/L		08/08/17 13:10	08/09/17 12:13	1
PCB-1260	ND		0.42	0.24	ug/L		08/08/17 13:10	08/09/17 12:13	1
PCB-1262	ND		0.42	0.28	ug/L		08/08/17 13:10	08/09/17 12:13	1
PCB-1268	ND		0.42	0.28	ug/L		08/08/17 13:10	08/09/17 12:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*88*		*52 - 131*	*08/08/17 13:10*	*08/09/17 12:13*	*1*
DCB Decachlorobiphenyl (Surr)	*94*		*52 - 131*	*08/08/17 13:10*	*08/09/17 12:13*	*1*
Tetrachloro-m-xylene (Surr)	*95*		*50 - 124*	*08/08/17 13:10*	*08/09/17 12:13*	*1*
Tetrachloro-m-xylene (Surr)	*92*		*50 - 124*	*08/08/17 13:10*	*08/09/17 12:13*	*1*

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		10	4.1	ug/L		08/08/17 08:08	08/09/17 13:34	1
Barium	ND		200	1.1	ug/L		08/08/17 08:08	08/09/17 13:34	1
Beryllium	ND		4.0	0.33	ug/L		08/08/17 08:08	08/09/17 13:34	1
Cadmium	ND		5.0	0.16	ug/L		08/08/17 08:08	08/09/17 13:34	1
Chromium	ND		5.0	0.78	ug/L		08/08/17 08:08	08/09/17 13:34	1
Copper	ND		25	2.2	ug/L		08/08/17 08:08	08/09/17 13:34	1
Lead	ND		10	2.9	ug/L		08/08/17 08:08	08/09/17 13:34	1
Manganese	ND		15	2.7	ug/L		08/08/17 08:08	08/09/17 13:34	1
Nickel	ND		40	1.5	ug/L		08/08/17 08:08	08/09/17 13:34	1
Selenium	ND		10	3.6	ug/L		08/08/17 08:08	08/09/17 13:34	1
Silver	ND		5.0	0.85	ug/L		08/08/17 08:08	08/09/17 13:34	1
Zinc	ND		20	5.8	ug/L		08/08/17 08:08	08/09/17 13:34	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.065	ug/L		08/09/17 12:32	08/10/17 09:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		10	3.3	ug/L		08/10/17 12:11	08/10/17 16:55	1

Client Sample ID: W5-b, S5, A 08.04.17

Lab Sample ID: 180-68986-7

Date Collected: 08/04/17 10:55

Matrix: Solid

Date Received: 08/05/17 09:00

Percent Solids: 87.8

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.017	0.0026	mg/Kg	☼	08/07/17 05:30	08/07/17 09:02	1
Benzene	ND		0.0041	0.0016	mg/Kg	☼	08/07/17 05:30	08/07/17 09:02	1
2-Butanone (MEK)	ND		0.0041	0.0024	mg/Kg	☼	08/07/17 05:30	08/07/17 09:02	1
Carbon tetrachloride	ND		0.0041	0.0027	mg/Kg	☼	08/07/17 05:30	08/07/17 09:02	1
Chlorobenzene	ND		0.0041	0.0013	mg/Kg	☼	08/07/17 05:30	08/07/17 09:02	1
Chloroform	ND		0.0041	0.0018	mg/Kg	☼	08/07/17 05:30	08/07/17 09:02	1

Client Sample ID: W5-b, S5, A 08.04.17 — Lab Sample ID: 180-68986-7

Date Collected: 08/04/17 10:55 — **Matrix: Solid**
Date Received: 08/05/17 09:00 — **Percent Solids: 87.8**

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		0.0041	0.0013	mg/Kg	☼	08/07/17 05:30	08/07/17 09:02	1
1,2-Dichlorobenzene	ND		0.0041	0.0033	mg/Kg	☼	08/07/17 05:30	08/07/17 09:02	1
1,3-Dichlorobenzene	ND		0.0041	0.0013	mg/Kg	☼	08/07/17 05:30	08/07/17 09:02	1
1,4-Dichlorobenzene	ND		0.0041	0.00085	mg/Kg	☼	08/07/17 05:30	08/07/17 09:02	1
1,1-Dichloroethane	ND		0.0041	0.0015	mg/Kg	☼	08/07/17 05:30	08/07/17 09:02	1
1,2-Dichloroethane	ND		0.0041	0.0012	mg/Kg	☼	08/07/17 05:30	08/07/17 09:02	1
1,1-Dichloroethene	ND		0.0041	0.0024	mg/Kg	☼	08/07/17 05:30	08/07/17 09:02	1
Ethylbenzene	ND		0.0041	0.0018	mg/Kg	☼	08/07/17 05:30	08/07/17 09:02	1
Methylene Chloride	ND		0.0041	0.0020	mg/Kg	☼	08/07/17 05:30	08/07/17 09:02	1
Methyl tert-butyl ether	ND		0.0041	0.0031	mg/Kg	☼	08/07/17 05:30	08/07/17 09:02	1
n-Butylbenzene	ND		0.0041	0.0031	mg/Kg	☼	08/07/17 05:30	08/07/17 09:02	1
N-Propylbenzene	ND		0.0041	0.0017	mg/Kg	☼	08/07/17 05:30	08/07/17 09:02	1
sec-Butylbenzene	ND		0.0041	0.0020	mg/Kg	☼	08/07/17 05:30	08/07/17 09:02	1
tert-Butylbenzene	ND		0.0041	0.0015	mg/Kg	☼	08/07/17 05:30	08/07/17 09:02	1
Tetrachloroethene	ND		0.0041	0.0017	mg/Kg	☼	08/07/17 05:30	08/07/17 09:02	1
Toluene	ND		0.0041	0.0014	mg/Kg	☼	08/07/17 05:30	08/07/17 09:02	1
trans-1,2-Dichloroethene	ND		0.0041	0.0021	mg/Kg	☼	08/07/17 05:30	08/07/17 09:02	1
1,1,1-Trichloroethane	ND		0.0041	0.0021	mg/Kg	☼	08/07/17 05:30	08/07/17 09:02	1
Trichloroethene	ND		0.0041	0.0012	mg/Kg	☼	08/07/17 05:30	08/07/17 09:02	1
1,2,4-Trimethylbenzene	ND		0.0041	0.0011	mg/Kg	☼	08/07/17 05:30	08/07/17 09:02	1
1,3,5-Trimethylbenzene	ND		0.0041	0.0014	mg/Kg	☼	08/07/17 05:30	08/07/17 09:02	1
Vinyl chloride	ND		0.0041	0.0030	mg/Kg	☼	08/07/17 05:30	08/07/17 09:02	1
Xylenes, Total	ND		0.0083	0.0036	mg/Kg	☼	08/07/17 05:30	08/07/17 09:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*63 - 120*	*08/07/17 05:30*	*08/07/17 09:02*	*1*
Dibromofluoromethane (Surr)	*101*		*68 - 121*	*08/07/17 05:30*	*08/07/17 09:02*	*1*
1,2-Dichloroethane-d4 (Surr)	*118*		*52 - 124*	*08/07/17 05:30*	*08/07/17 09:02*	*1*
Toluene-d8 (Surr)	*99*		*72 - 127*	*08/07/17 05:30*	*08/07/17 09:02*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**12.2**		0.1	0.1	%			08/08/17 14:36	1
Percent Solids	**87.8**		0.1	0.1	%			08/08/17 14:36	1

Client Sample ID: W5-b, S5, B 08.04.17 — Lab Sample ID: 180-68986-8

Date Collected: 08/04/17 11:05 — **Matrix: Solid**
Date Received: 08/05/17 09:00 — **Percent Solids: 89.8**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.020	0.0031	mg/Kg	☼	08/07/17 05:30	08/07/17 10:54	1
Benzene	ND		0.0050	0.0020	mg/Kg	☼	08/07/17 05:30	08/07/17 10:54	1
2-Butanone (MEK)	ND		0.0050	0.0029	mg/Kg	☼	08/07/17 05:30	08/07/17 10:54	1
Carbon tetrachloride	ND		0.0050	0.0033	mg/Kg	☼	08/07/17 05:30	08/07/17 10:54	1
Chlorobenzene	ND		0.0050	0.0016	mg/Kg	☼	08/07/17 05:30	08/07/17 10:54	1
Chloroform	ND		0.0050	0.0021	mg/Kg	☼	08/07/17 05:30	08/07/17 10:54	1
cis-1,2-Dichloroethene	ND		0.0050	0.0016	mg/Kg	☼	08/07/17 05:30	08/07/17 10:54	1
1,2-Dichlorobenzene	ND		0.0050	0.0040	mg/Kg	☼	08/07/17 05:30	08/07/17 10:54	1
1,3-Dichlorobenzene	ND		0.0050	0.0016	mg/Kg	☼	08/07/17 05:30	08/07/17 10:54	1

Client Sample ID: W5-b, S5, B 08.04.17 — Lab Sample ID: 180-68986-8

Date Collected: 08/04/17 11:05 — **Matrix: Solid**
Date Received: 08/05/17 09:00 — **Percent Solids: 89.8**

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		0.0050	0.0010	mg/Kg	☼	08/07/17 05:30	08/07/17 10:54	1
1,1-Dichloroethane	ND		0.0050	0.0018	mg/Kg	☼	08/07/17 05:30	08/07/17 10:54	1
1,2-Dichloroethane	ND		0.0050	0.0014	mg/Kg	☼	08/07/17 05:30	08/07/17 10:54	1
1,1-Dichloroethene	ND		0.0050	0.0028	mg/Kg	☼	08/07/17 05:30	08/07/17 10:54	1
Ethylbenzene	ND		0.0050	0.0021	mg/Kg	☼	08/07/17 05:30	08/07/17 10:54	1
Methylene Chloride	ND		0.0050	0.0023	mg/Kg	☼	08/07/17 05:30	08/07/17 10:54	1
Methyl tert-butyl ether	ND		0.0050	0.0037	mg/Kg	☼	08/07/17 05:30	08/07/17 10:54	1
n-Butylbenzene	ND		0.0050	0.0038	mg/Kg	☼	08/07/17 05:30	08/07/17 10:54	1
N-Propylbenzene	ND		0.0050	0.0021	mg/Kg	☼	08/07/17 05:30	08/07/17 10:54	1
sec-Butylbenzene	ND		0.0050	0.0024	mg/Kg	☼	08/07/17 05:30	08/07/17 10:54	1
tert-Butylbenzene	ND		0.0050	0.0018	mg/Kg	☼	08/07/17 05:30	08/07/17 10:54	1
Tetrachloroethene	ND		0.0050	0.0020	mg/Kg	☼	08/07/17 05:30	08/07/17 10:54	1
Toluene	ND		0.0050	0.0017	mg/Kg	☼	08/07/17 05:30	08/07/17 10:54	1
trans-1,2-Dichloroethene	ND		0.0050	0.0025	mg/Kg	☼	08/07/17 05:30	08/07/17 10:54	1
1,1,1-Trichloroethane	ND		0.0050	0.0025	mg/Kg	☼	08/07/17 05:30	08/07/17 10:54	1
Trichloroethene	ND		0.0050	0.0015	mg/Kg	☼	08/07/17 05:30	08/07/17 10:54	1
1,2,4-Trimethylbenzene	ND		0.0050	0.0013	mg/Kg	☼	08/07/17 05:30	08/07/17 10:54	1
1,3,5-Trimethylbenzene	ND		0.0050	0.0017	mg/Kg	☼	08/07/17 05:30	08/07/17 10:54	1
Vinyl chloride	ND		0.0050	0.0036	mg/Kg	☼	08/07/17 05:30	08/07/17 10:54	1
Xylenes, Total	ND		0.0099	0.0043	mg/Kg	☼	08/07/17 05:30	08/07/17 10:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*63 - 120*	*08/07/17 05:30*	*08/07/17 10:54*	*1*
Dibromofluoromethane (Surr)	*103*		*68 - 121*	*08/07/17 05:30*	*08/07/17 10:54*	*1*
1,2-Dichloroethane-d4 (Surr)	*107*		*52 - 124*	*08/07/17 05:30*	*08/07/17 10:54*	*1*
Toluene-d8 (Surr)	*109*		*72 - 127*	*08/07/17 05:30*	*08/07/17 10:54*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**10.2**		0.1	0.1	%			08/08/17 14:36	1
Percent Solids	**89.8**		0.1	0.1	%			08/08/17 14:36	1

Client Sample ID: W5-b, S5, C 08.04.17 — Lab Sample ID: 180-68986-9

Date Collected: 08/04/17 11:10 — **Matrix: Solid**
Date Received: 08/05/17 09:00 — **Percent Solids: 90.2**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.0046**	**J**	0.0074	0.0025	mg/Kg	☼	08/15/17 03:27	08/15/17 19:46	1
Acenaphthylene	**0.012**		0.0074	0.0025	mg/Kg	☼	08/15/17 03:27	08/15/17 19:46	1
Anthracene	**0.019**		0.0074	0.0027	mg/Kg	☼	08/15/17 03:27	08/15/17 19:46	1
Benzo[a]anthracene	**0.080**		0.0074	0.0029	mg/Kg	☼	08/15/17 03:27	08/15/17 19:46	1
Benzo[a]pyrene	**0.074**		0.0074	0.0031	mg/Kg	☼	08/15/17 03:27	08/15/17 19:46	1
Benzo[b]fluoranthene	**0.10**		0.0074	0.0032	mg/Kg	☼	08/15/17 03:27	08/15/17 19:46	1
Benzo[g,h,i]perylene	**0.074**		0.0074	0.0032	mg/Kg	☼	08/15/17 03:27	08/15/17 19:46	1
Benzo[k]fluoranthene	**0.028**		0.0074	0.0026	mg/Kg	☼	08/15/17 03:27	08/15/17 19:46	1
Chrysene	**0.090**		0.0074	0.0029	mg/Kg	☼	08/15/17 03:27	08/15/17 19:46	1
Dibenz(a,h)anthracene	**0.019**		0.0074	0.0031	mg/Kg	☼	08/15/17 03:27	08/15/17 19:46	1
Dibenzofuran	**0.0062**	**J**	0.037	0.0030	mg/Kg	☼	08/15/17 03:27	08/15/17 19:46	1
2,4-Dinitrotoluene	ND		37	4.9	ug/Kg	☼	08/15/17 03:27	08/15/17 19:46	1

Client Sample ID: W5-b, S5, C 08.04.17 **Lab Sample ID: 180-68986-9**
Date Collected: 08/04/17 11:10 **Matrix: Solid**
Date Received: 08/05/17 09:00 **Percent Solids: 90.2**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.074	0.0056	mg/Kg	☼	08/15/17 03:27	08/15/17 19:46	1
Fluoranthene	**0.16**		0.0074	0.0029	mg/Kg	☼	08/15/17 03:27	08/15/17 19:46	1
Fluorene	ND		0.0074	0.0026	mg/Kg	☼	08/15/17 03:27	08/15/17 19:46	1
Hexachlorobenzene	ND		0.0074	0.0030	mg/Kg	☼	08/15/17 03:27	08/15/17 19:46	1
Hexachlorobutadiene	ND		7.4	2.3	ug/Kg	☼	08/15/17 03:27	08/15/17 19:46	1
Hexachloroethane	ND		37	2.7	ug/Kg	☼	08/15/17 03:27	08/15/17 19:46	1
Indeno[1,2,3-cd]pyrene	**0.064**		0.0074	0.0029	mg/Kg	☼	08/15/17 03:27	08/15/17 19:46	1
2-Methylphenol	ND		0.037	0.0033	mg/Kg	☼	08/15/17 03:27	08/15/17 19:46	1
Methylphenol, 3 & 4	ND		0.037	0.0033	mg/Kg	☼	08/15/17 03:27	08/15/17 19:46	1
Naphthalene	**0.014**		0.0074	0.0027	mg/Kg	☼	08/15/17 03:27	08/15/17 19:46	1
Nitrobenzene	ND		74	2.8	ug/Kg	☼	08/15/17 03:27	08/15/17 19:46	1
Pentachlorophenol	ND		0.19	0.070	mg/Kg	☼	08/15/17 03:27	08/15/17 19:46	1
Phenanthrene	**0.071**		0.0074	0.0031	mg/Kg	☼	08/15/17 03:27	08/15/17 19:46	1
Phenol	ND		0.037	0.0050	mg/Kg	☼	08/15/17 03:27	08/15/17 19:46	1
Pyrene	**0.12**		0.0074	0.0033	mg/Kg	☼	08/15/17 03:27	08/15/17 19:46	1
Pyridine	ND		37	3.5	ug/Kg	☼	08/15/17 03:27	08/15/17 19:46	1
2,4,5-Trichlorophenol	ND		37	3.5	ug/Kg	☼	08/15/17 03:27	08/15/17 19:46	1
2,4,6-Trichlorophenol	ND		37	3.2	ug/Kg	☼	08/15/17 03:27	08/15/17 19:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*72*		*42 - 100*	*08/15/17 03:27*	*08/15/17 19:46*	*1*
2-Fluorophenol (Surr)	*64*		*21 - 107*	*08/15/17 03:27*	*08/15/17 19:46*	*1*
Nitrobenzene-d5 (Surr)	*71*		*35 - 109*	*08/15/17 03:27*	*08/15/17 19:46*	*1*
Phenol-d5 (Surr)	*68*		*29 - 105*	*08/15/17 03:27*	*08/15/17 19:46*	*1*
Terphenyl-d14 (Surr)	*62*		*36 - 113*	*08/15/17 03:27*	*08/15/17 19:46*	*1*
2,4,6-Tribromophenol (Surr)	*66*		*20 - 134*	*08/15/17 03:27*	*08/15/17 19:46*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.092	0.049	mg/Kg	☼	08/15/17 03:35	08/16/17 11:19	5
PCB-1221	ND		0.092	0.048	mg/Kg	☼	08/15/17 03:35	08/16/17 11:19	5
PCB-1232	ND		0.092	0.037	mg/Kg	☼	08/15/17 03:35	08/16/17 11:19	5
PCB-1242	ND		0.092	0.073	mg/Kg	☼	08/15/17 03:35	08/16/17 11:19	5
PCB-1248	**6.5**		0.092	0.044	mg/Kg	☼	08/15/17 03:35	08/16/17 11:19	5
PCB-1254	**2.2**		0.092	0.041	mg/Kg	☼	08/15/17 03:35	08/16/17 11:19	5
PCB-1260	**0.34**		0.092	0.062	mg/Kg	☼	08/15/17 03:35	08/16/17 11:19	5
PCB-1262	ND		0.092	0.066	mg/Kg	☼	08/15/17 03:35	08/16/17 11:19	5
PCB-1268	ND		0.092	0.028	mg/Kg	☼	08/15/17 03:35	08/16/17 11:19	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*103*		*23 - 150*	*08/15/17 03:35*	*08/16/17 11:19*	*5*
DCB Decachlorobiphenyl (Surr)	*100*		*23 - 150*	*08/15/17 03:35*	*08/16/17 11:19*	*5*
Tetrachloro-m-xylene (Surr)	*104*		*27 - 138*	*08/15/17 03:35*	*08/16/17 11:19*	*5*
Tetrachloro-m-xylene (Surr)	*99*		*27 - 138*	*08/15/17 03:35*	*08/16/17 11:19*	*5*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**6.5**		1.1	0.49	mg/Kg	☼	08/08/17 14:03	08/10/17 12:24	1
Barium	**93**		22	6.0	mg/Kg	☼	08/08/17 14:03	08/10/17 12:24	1
Beryllium	**0.30**	**J**	0.45	0.12	mg/Kg	☼	08/08/17 14:03	08/10/17 12:24	1

Client Sample ID: W5-b, S5, C 08.04.17 — Lab Sample ID: 180-68986-9

Date Collected: 08/04/17 11:10 — Matrix: Solid
Date Received: 08/05/17 09:00 — Percent Solids: 90.2

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.17	J	0.56	0.13	mg/Kg	☼	08/08/17 14:03	08/10/17 12:24	1
Chromium	11		0.56	0.15	mg/Kg	☼	08/08/17 14:03	08/10/17 12:24	1
Copper	41		2.8	0.86	mg/Kg	☼	08/08/17 14:03	08/10/17 12:24	1
Lead	91		1.1	0.37	mg/Kg	☼	08/08/17 14:03	08/10/17 12:24	1
Manganese	460		1.7	0.45	mg/Kg	☼	08/08/17 14:03	08/10/17 12:24	1
Nickel	42		4.5	1.0	mg/Kg	☼	08/08/17 14:03	08/10/17 12:24	1
Selenium	ND		1.1	0.44	mg/Kg	☼	08/08/17 14:03	08/10/17 12:24	1
Silver	ND		0.56	0.19	mg/Kg	☼	08/08/17 14:03	08/10/17 12:24	1
Zinc	73		2.2	1.1	mg/Kg	☼	08/08/17 14:03	08/10/17 12:24	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.058		0.028	0.0063	mg/Kg	☼	08/08/17 17:30	08/09/17 11:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.8		0.1	0.1	%			08/08/17 14:36	1
Percent Solids	90.2		0.1	0.1	%			08/08/17 14:36	1
Cyanide, Total	2.0		0.50	0.15	mg/Kg	☼	08/10/17 12:11	08/10/17 15:37	1

Client Sample ID: TRIP BLANK #1 — Lab Sample ID: 180-68986-10

Date Collected: 08/04/17 00:00 — Matrix: Water
Date Received: 08/05/17 09:00

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10		5.0	3.1	ug/L			08/08/17 06:44	1
Benzene	ND		1.0	0.18	ug/L			08/08/17 06:44	1
2-Butanone (MEK)	2.9	J	5.0	2.6	ug/L			08/08/17 06:44	1
Carbon tetrachloride	ND		1.0	0.56	ug/L			08/08/17 06:44	1
Chlorobenzene	ND		1.0	0.15	ug/L			08/08/17 06:44	1
Chloroform	ND		1.0	0.27	ug/L			08/08/17 06:44	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			08/08/17 06:44	1
1,2-Dichlorobenzene	ND		1.0	0.23	ug/L			08/08/17 06:44	1
1,3-Dichlorobenzene	ND		1.0	0.21	ug/L			08/08/17 06:44	1
1,4-Dichlorobenzene	ND		1.0	0.24	ug/L			08/08/17 06:44	1
1,1-Dichloroethane	ND		1.0	0.34	ug/L			08/08/17 06:44	1
1,2-Dichloroethane	ND		1.0	0.24	ug/L			08/08/17 06:44	1
1,1-Dichloroethene	ND		1.0	0.32	ug/L			08/08/17 06:44	1
Ethylbenzene	ND		1.0	0.25	ug/L			08/08/17 06:44	1
Methylene Chloride	ND		1.0	0.94	ug/L			08/08/17 06:44	1
Methyl tert-butyl ether	ND		1.0	0.20	ug/L			08/08/17 06:44	1
n-Butylbenzene	ND		1.0	0.22	ug/L			08/08/17 06:44	1
N-Propylbenzene	ND		1.0	0.20	ug/L			08/08/17 06:44	1
sec-Butylbenzene	ND		1.0	0.22	ug/L			08/08/17 06:44	1
tert-Butylbenzene	ND		1.0	0.17	ug/L			08/08/17 06:44	1
Tetrachloroethene	ND		1.0	0.24	ug/L			08/08/17 06:44	1
Toluene	ND		1.0	0.16	ug/L			08/08/17 06:44	1
trans-1,2-Dichloroethene	ND		1.0	0.20	ug/L			08/08/17 06:44	1
1,1,1-Trichloroethane	ND		1.0	0.27	ug/L			08/08/17 06:44	1

Client Sample ID: TRIP BLANK #1

Lab Sample ID: 180-68986-10
Matrix: Water
Date Collected: 08/04/17 00:00
Date Received: 08/05/17 09:00

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	ND		1.0	0.20	ug/L			08/08/17 06:44	1
1,2,4-Trimethylbenzene	ND		1.0	0.18	ug/L			08/08/17 06:44	1
1,3,5-Trimethylbenzene	ND		1.0	0.17	ug/L			08/08/17 06:44	1
Vinyl chloride	ND		1.0	0.17	ug/L			08/08/17 06:44	1
Xylenes, Total	ND		2.0	0.27	ug/L			08/08/17 06:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*72 - 120*		*08/08/17 06:44*	*1*
Dibromofluoromethane (Surr)	*99*		*77 - 127*		*08/08/17 06:44*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*72 - 134*		*08/08/17 06:44*	*1*
Toluene-d8 (Surr)	*89*		*80 - 120*		*08/08/17 06:44*	*1*

Client Sample ID: TRIP BLANK #2

Lab Sample ID: 180-68986-11
Matrix: Water
Date Collected: 08/04/17 00:00
Date Received: 08/05/17 09:00

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**3.9**	**J**	5.0	3.1	ug/L			08/08/17 07:07	1
Benzene	ND		1.0	0.18	ug/L			08/08/17 07:07	1
2-Butanone (MEK)	ND		5.0	2.6	ug/L			08/08/17 07:07	1
Carbon tetrachloride	ND		1.0	0.56	ug/L			08/08/17 07:07	1
Chlorobenzene	ND		1.0	0.15	ug/L			08/08/17 07:07	1
Chloroform	ND		1.0	0.27	ug/L			08/08/17 07:07	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			08/08/17 07:07	1
1,2-Dichlorobenzene	ND		1.0	0.23	ug/L			08/08/17 07:07	1
1,3-Dichlorobenzene	ND		1.0	0.21	ug/L			08/08/17 07:07	1
1,4-Dichlorobenzene	ND		1.0	0.24	ug/L			08/08/17 07:07	1
1,1-Dichloroethane	ND		1.0	0.34	ug/L			08/08/17 07:07	1
1,2-Dichloroethane	ND		1.0	0.24	ug/L			08/08/17 07:07	1
1,1-Dichloroethene	ND		1.0	0.32	ug/L			08/08/17 07:07	1
Ethylbenzene	ND		1.0	0.25	ug/L			08/08/17 07:07	1
Methylene Chloride	ND		1.0	0.94	ug/L			08/08/17 07:07	1
Methyl tert-butyl ether	ND		1.0	0.20	ug/L			08/08/17 07:07	1
n-Butylbenzene	ND		1.0	0.22	ug/L			08/08/17 07:07	1
N-Propylbenzene	ND		1.0	0.20	ug/L			08/08/17 07:07	1
sec-Butylbenzene	ND		1.0	0.22	ug/L			08/08/17 07:07	1
tert-Butylbenzene	ND		1.0	0.17	ug/L			08/08/17 07:07	1
Tetrachloroethene	ND		1.0	0.24	ug/L			08/08/17 07:07	1
Toluene	ND		1.0	0.16	ug/L			08/08/17 07:07	1
trans-1,2-Dichloroethene	ND		1.0	0.20	ug/L			08/08/17 07:07	1
1,1,1-Trichloroethane	ND		1.0	0.27	ug/L			08/08/17 07:07	1
Trichloroethene	ND		1.0	0.20	ug/L			08/08/17 07:07	1
1,2,4-Trimethylbenzene	ND		1.0	0.18	ug/L			08/08/17 07:07	1
1,3,5-Trimethylbenzene	ND		1.0	0.17	ug/L			08/08/17 07:07	1
Vinyl chloride	ND		1.0	0.17	ug/L			08/08/17 07:07	1
Xylenes, Total	ND		2.0	0.27	ug/L			08/08/17 07:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*72 - 120*		*08/08/17 07:07*	*1*

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68986-1

Client Sample ID: TRIP BLANK #2
Date Collected: 08/04/17 00:00
Date Received: 08/05/17 09:00

Lab Sample ID: 180-68986-11
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	98		77 - 127		08/08/17 07:07	1
1,2-Dichloroethane-d4 (Surr)	101		72 - 134		08/08/17 07:07	1
Toluene-d8 (Surr)	88		80 - 120		08/08/17 07:07	1

Method: 8260C - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 180-219341/5
Matrix: Water
Analysis Batch: 219341

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		5.0	3.1	ug/L			08/08/17 03:23	1
Benzene	ND		1.0	0.18	ug/L			08/08/17 03:23	1
2-Butanone (MEK)	ND		5.0	2.6	ug/L			08/08/17 03:23	1
Carbon tetrachloride	ND		1.0	0.56	ug/L			08/08/17 03:23	1
Chlorobenzene	ND		1.0	0.15	ug/L			08/08/17 03:23	1
Chloroform	ND		1.0	0.27	ug/L			08/08/17 03:23	1
cis-1,2-Dichloroethene	ND		1.0	0.30	ug/L			08/08/17 03:23	1
1,2-Dichlorobenzene	ND		1.0	0.23	ug/L			08/08/17 03:23	1
1,3-Dichlorobenzene	ND		1.0	0.21	ug/L			08/08/17 03:23	1
1,4-Dichlorobenzene	ND		1.0	0.24	ug/L			08/08/17 03:23	1
1,1-Dichloroethane	ND		1.0	0.34	ug/L			08/08/17 03:23	1
1,2-Dichloroethane	ND		1.0	0.24	ug/L			08/08/17 03:23	1
1,1-Dichloroethene	ND		1.0	0.32	ug/L			08/08/17 03:23	1
Ethylbenzene	ND		1.0	0.25	ug/L			08/08/17 03:23	1
Methylene Chloride	ND		1.0	0.94	ug/L			08/08/17 03:23	1
Methyl tert-butyl ether	ND		1.0	0.20	ug/L			08/08/17 03:23	1
n-Butylbenzene	ND		1.0	0.22	ug/L			08/08/17 03:23	1
N-Propylbenzene	ND		1.0	0.20	ug/L			08/08/17 03:23	1
sec-Butylbenzene	ND		1.0	0.22	ug/L			08/08/17 03:23	1
tert-Butylbenzene	ND		1.0	0.17	ug/L			08/08/17 03:23	1
Tetrachloroethene	ND		1.0	0.24	ug/L			08/08/17 03:23	1
Toluene	ND		1.0	0.16	ug/L			08/08/17 03:23	1
trans-1,2-Dichloroethene	ND		1.0	0.20	ug/L			08/08/17 03:23	1
1,1,1-Trichloroethane	ND		1.0	0.27	ug/L			08/08/17 03:23	1
Trichloroethene	ND		1.0	0.20	ug/L			08/08/17 03:23	1
1,2,4-Trimethylbenzene	ND		1.0	0.18	ug/L			08/08/17 03:23	1
1,3,5-Trimethylbenzene	ND		1.0	0.17	ug/L			08/08/17 03:23	1
Vinyl chloride	ND		1.0	0.17	ug/L			08/08/17 03:23	1
Xylenes, Total	ND		2.0	0.27	ug/L			08/08/17 03:23	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*72 - 120*		*08/08/17 03:23*	*1*
Dibromofluoromethane (Surr)	*92*		*77 - 127*		*08/08/17 03:23*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*72 - 134*		*08/08/17 03:23*	*1*
Toluene-d8 (Surr)	*86*		*80 - 120*		*08/08/17 03:23*	*1*

Lab Sample ID: LCS 180-219341/3
Matrix: Water
Analysis Batch: 219341

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	20.0	23.5		ug/L		118	10 - 150
Benzene	10.0	10.1		ug/L		101	80 - 121
2-Butanone (MEK)	20.0	20.5		ug/L		103	41 - 150
Carbon tetrachloride	10.0	10.0		ug/L		100	59 - 145
Chlorobenzene	10.0	9.95		ug/L		99	80 - 120
Chloroform	10.0	9.90		ug/L		99	78 - 122
cis-1,2-Dichloroethene	10.0	9.87		ug/L		99	80 - 120

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 180-219341/3
Matrix: Water
Analysis Batch: 219341

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichlorobenzene	10.0	9.17		ug/L		92	80 - 120
1,3-Dichlorobenzene	10.0	9.42		ug/L		94	80 - 120
1,4-Dichlorobenzene	10.0	9.44		ug/L		94	80 - 120
1,1-Dichloroethane	10.0	10.0		ug/L		100	76 - 126
1,2-Dichloroethane	10.0	9.81		ug/L		98	72 - 126
1,1-Dichloroethene	10.0	10.3		ug/L		103	71 - 122
Ethylbenzene	10.0	10.1		ug/L		101	80 - 123
Methylene Chloride	10.0	9.54		ug/L		95	71 - 129
Methyl tert-butyl ether	10.0	9.54		ug/L		95	68 - 124
n-Butylbenzene	10.0	10.2		ug/L		102	75 - 120
N-Propylbenzene	10.0	10.2		ug/L		102	78 - 121
sec-Butylbenzene	10.0	10.1		ug/L		101	80 - 121
tert-Butylbenzene	10.0	9.94		ug/L		99	79 - 120
Tetrachloroethene	10.0	10.7		ug/L		107	80 - 122
Toluene	10.0	10.6		ug/L		106	80 - 125
trans-1,2-Dichloroethene	10.0	10.3		ug/L		103	80 - 121
1,1,1-Trichloroethane	10.0	9.91		ug/L		99	57 - 128
Trichloroethene	10.0	9.99		ug/L		100	79 - 120
1,2,4-Trimethylbenzene	10.0	9.76		ug/L		98	80 - 120
1,3,5-Trimethylbenzene	10.0	10.0		ug/L		100	80 - 122
Vinyl chloride	10.0	10.9		ug/L		109	61 - 138
Xylenes, Total	20.0	20.6		ug/L		103	80 - 123

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*107*		*72 - 120*
Dibromofluoromethane (Surr)	*99*		*77 - 127*
1,2-Dichloroethane-d4 (Surr)	*97*		*72 - 134*
Toluene-d8 (Surr)	*110*		*80 - 120*

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 180-219248/8
Matrix: Solid
Analysis Batch: 219248

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.020	0.0032	mg/Kg			08/07/17 08:39	1
Benzene	ND		0.0050	0.0020	mg/Kg			08/07/17 08:39	1
2-Butanone (MEK)	ND		0.0050	0.0029	mg/Kg			08/07/17 08:39	1
Carbon tetrachloride	ND		0.0050	0.0033	mg/Kg			08/07/17 08:39	1
Chlorobenzene	ND		0.0050	0.0016	mg/Kg			08/07/17 08:39	1
Chloroform	ND		0.0050	0.0021	mg/Kg			08/07/17 08:39	1
cis-1,2-Dichloroethene	ND		0.0050	0.0016	mg/Kg			08/07/17 08:39	1
1,2-Dichlorobenzene	ND		0.0050	0.0040	mg/Kg			08/07/17 08:39	1
1,3-Dichlorobenzene	ND		0.0050	0.0016	mg/Kg			08/07/17 08:39	1
1,4-Dichlorobenzene	ND		0.0050	0.0010	mg/Kg			08/07/17 08:39	1
1,1-Dichloroethane	ND		0.0050	0.0018	mg/Kg			08/07/17 08:39	1
1,2-Dichloroethane	ND		0.0050	0.0015	mg/Kg			08/07/17 08:39	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 180-219248/8
Matrix: Solid
Analysis Batch: 219248

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		0.0050	0.0029	mg/Kg			08/07/17 08:39	1
Ethylbenzene	ND		0.0050	0.0022	mg/Kg			08/07/17 08:39	1
Methylene Chloride	ND		0.0050	0.0024	mg/Kg			08/07/17 08:39	1
Methyl tert-butyl ether	ND		0.0050	0.0037	mg/Kg			08/07/17 08:39	1
n-Butylbenzene	ND		0.0050	0.0038	mg/Kg			08/07/17 08:39	1
N-Propylbenzene	ND		0.0050	0.0021	mg/Kg			08/07/17 08:39	1
sec-Butylbenzene	ND		0.0050	0.0024	mg/Kg			08/07/17 08:39	1
tert-Butylbenzene	ND		0.0050	0.0018	mg/Kg			08/07/17 08:39	1
Tetrachloroethene	ND		0.0050	0.0020	mg/Kg			08/07/17 08:39	1
Toluene	ND		0.0050	0.0017	mg/Kg			08/07/17 08:39	1
trans-1,2-Dichloroethene	ND		0.0050	0.0025	mg/Kg			08/07/17 08:39	1
1,1,1-Trichloroethane	ND		0.0050	0.0025	mg/Kg			08/07/17 08:39	1
Trichloroethene	ND		0.0050	0.0015	mg/Kg			08/07/17 08:39	1
1,2,4-Trimethylbenzene	ND		0.0050	0.0013	mg/Kg			08/07/17 08:39	1
1,3,5-Trimethylbenzene	ND		0.0050	0.0017	mg/Kg			08/07/17 08:39	1
Vinyl chloride	ND		0.0050	0.0037	mg/Kg			08/07/17 08:39	1
Xylenes, Total	ND		0.010	0.0043	mg/Kg			08/07/17 08:39	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*63 - 120*		*08/07/17 08:39*	*1*
Dibromofluoromethane (Surr)	*100*		*68 - 121*		*08/07/17 08:39*	*1*
1,2-Dichloroethane-d4 (Surr)	*120*		*52 - 124*		*08/07/17 08:39*	*1*
Toluene-d8 (Surr)	*100*		*72 - 127*		*08/07/17 08:39*	*1*

Lab Sample ID: LCS 180-219248/3
Matrix: Solid
Analysis Batch: 219248

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0400	0.0353		mg/Kg		88	20 - 150
Benzene	0.0400	0.0400		mg/Kg		100	77 - 120
2-Butanone (MEK)	0.0400	0.0321		mg/Kg		80	35 - 149
Carbon tetrachloride	0.0400	0.0479		mg/Kg		120	69 - 122
Chlorobenzene	0.0400	0.0385		mg/Kg		96	79 - 120
Chloroform	0.0400	0.0433		mg/Kg		108	72 - 120
cis-1,2-Dichloroethene	0.0400	0.0399		mg/Kg		100	80 - 118
1,2-Dichlorobenzene	0.0400	0.0362		mg/Kg		91	71 - 124
1,3-Dichlorobenzene	0.0400	0.0361		mg/Kg		90	75 - 118
1,4-Dichlorobenzene	0.0400	0.0366		mg/Kg		92	77 - 116
1,1-Dichloroethane	0.0400	0.0438		mg/Kg		109	66 - 124
1,2-Dichloroethane	0.0400	0.0464		mg/Kg		116	61 - 127
1,1-Dichloroethene	0.0400	0.0428		mg/Kg		107	59 - 129
Ethylbenzene	0.0400	0.0378		mg/Kg		95	78 - 125
Methylene Chloride	0.0400	0.0426		mg/Kg		106	58 - 127
Methyl tert-butyl ether	0.0400	0.0438		mg/Kg		109	48 - 132
n-Butylbenzene	0.0400	0.0434		mg/Kg		109	59 - 145
N-Propylbenzene	0.0400	0.0381		mg/Kg		95	80 - 120
sec-Butylbenzene	0.0400	0.0410		mg/Kg		103	70 - 130

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 180-219248/3
Matrix: Solid
Analysis Batch: 219248

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
tert-Butylbenzene	0.0400	0.0401		mg/Kg		100	74 - 133
Tetrachloroethene	0.0400	0.0353		mg/Kg		88	78 - 129
Toluene	0.0400	0.0393		mg/Kg		98	78 - 124
trans-1,2-Dichloroethene	0.0400	0.0434		mg/Kg		108	77 - 121
1,1,1-Trichloroethane	0.0400	0.0497		mg/Kg		124	67 - 126
Trichloroethene	0.0400	0.0371		mg/Kg		93	76 - 119
1,2,4-Trimethylbenzene	0.0400	0.0396		mg/Kg		99	80 - 121
1,3,5-Trimethylbenzene	0.0400	0.0396		mg/Kg		99	68 - 133
Vinyl chloride	0.0400	0.0398		mg/Kg		99	63 - 124
Xylenes, Total	0.0800	0.0760		mg/Kg		95	83 - 126

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*107*		*63 - 120*
Dibromofluoromethane (Surr)	*104*		*68 - 121*
1,2-Dichloroethane-d4 (Surr)	*117*		*52 - 124*
Toluene-d8 (Surr)	*103*		*72 - 127*

Lab Sample ID: 180-68986-7 MS
Matrix: Solid
Analysis Batch: 219248

Client Sample ID: W5-b, S5, A 08.04.17
Prep Type: Total/NA
Prep Batch: 219255

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	ND		0.0403	0.0330		mg/Kg	☼	82	20 - 150
Benzene	ND		0.0403	0.0371		mg/Kg	☼	92	77 - 120
2-Butanone (MEK)	ND		0.0403	0.0322		mg/Kg	☼	80	35 - 149
Carbon tetrachloride	ND		0.0403	0.0448		mg/Kg	☼	111	69 - 122
Chlorobenzene	ND		0.0403	0.0346		mg/Kg	☼	86	79 - 120
Chloroform	ND		0.0403	0.0411		mg/Kg	☼	102	72 - 120
cis-1,2-Dichloroethene	ND		0.0403	0.0376		mg/Kg	☼	93	80 - 118
1,2-Dichlorobenzene	ND		0.0403	0.0328		mg/Kg	☼	81	71 - 124
1,3-Dichlorobenzene	ND		0.0403	0.0336		mg/Kg	☼	83	75 - 118
1,4-Dichlorobenzene	ND		0.0403	0.0337		mg/Kg	☼	84	77 - 116
1,1-Dichloroethane	ND		0.0403	0.0421		mg/Kg	☼	104	66 - 124
1,2-Dichloroethane	ND		0.0403	0.0446		mg/Kg	☼	111	61 - 127
1,1-Dichloroethene	ND		0.0403	0.0393		mg/Kg	☼	98	59 - 129
Ethylbenzene	ND		0.0403	0.0346		mg/Kg	☼	86	78 - 125
Methylene Chloride	ND		0.0403	0.0385		mg/Kg	☼	96	58 - 127
Methyl tert-butyl ether	ND		0.0403	0.0428		mg/Kg	☼	106	48 - 132
n-Butylbenzene	ND		0.0403	0.0372		mg/Kg	☼	92	59 - 145
N-Propylbenzene	ND		0.0403	0.0379		mg/Kg	☼	94	80 - 120
sec-Butylbenzene	ND		0.0403	0.0377		mg/Kg	☼	94	70 - 130
tert-Butylbenzene	ND		0.0403	0.0374		mg/Kg	☼	93	74 - 133
Tetrachloroethene	ND		0.0403	0.0319		mg/Kg	☼	79	78 - 129
Toluene	ND		0.0403	0.0355		mg/Kg	☼	88	78 - 124
trans-1,2-Dichloroethene	ND		0.0403	0.0406		mg/Kg	☼	101	77 - 121
1,1,1-Trichloroethane	ND		0.0403	0.0455		mg/Kg	☼	113	67 - 126
Trichloroethene	ND		0.0403	0.0347		mg/Kg	☼	86	76 - 119
1,2,4-Trimethylbenzene	ND		0.0403	0.0374		mg/Kg	☼	93	80 - 121

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 180-68986-7 MS
Matrix: Solid
Analysis Batch: 219248

Client Sample ID: W5-b, S5, A 08.04.17
Prep Type: Total/NA
Prep Batch: 219255

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,3,5-Trimethylbenzene	ND		0.0403	0.0379		mg/Kg	☼	94	68 - 133
Vinyl chloride	ND		0.0403	0.0367		mg/Kg	☼	91	63 - 124
Xylenes, Total	ND		0.0806	0.0686		mg/Kg	☼	85	83 - 126

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*92*		*63 - 120*
Dibromofluoromethane (Surr)	*96*		*68 - 121*
1,2-Dichloroethane-d4 (Surr)	*108*		*52 - 124*
Toluene-d8 (Surr)	*91*		*72 - 127*

Lab Sample ID: 180-68986-7 MSD
Matrix: Solid
Analysis Batch: 219248

Client Sample ID: W5-b, S5, A 08.04.17
Prep Type: Total/NA
Prep Batch: 219255

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	ND		0.0432	0.0395		mg/Kg	☼	92	20 - 150	18	40
Benzene	ND		0.0432	0.0430		mg/Kg	☼	100	77 - 120	15	20
2-Butanone (MEK)	ND		0.0432	0.0378		mg/Kg	☼	88	35 - 149	16	36
Carbon tetrachloride	ND		0.0432	0.0512		mg/Kg	☼	118	69 - 122	13	22
Chlorobenzene	ND		0.0432	0.0401		mg/Kg	☼	93	79 - 120	15	20
Chloroform	ND		0.0432	0.0472		mg/Kg	☼	109	72 - 120	14	25
cis-1,2-Dichloroethene	ND		0.0432	0.0436		mg/Kg	☼	101	80 - 118	15	20
1,2-Dichlorobenzene	ND		0.0432	0.0396		mg/Kg	☼	92	71 - 124	19	22
1,3-Dichlorobenzene	ND		0.0432	0.0390		mg/Kg	☼	90	75 - 118	15	20
1,4-Dichlorobenzene	ND		0.0432	0.0394		mg/Kg	☼	91	77 - 116	16	20
1,1-Dichloroethane	ND		0.0432	0.0483		mg/Kg	☼	112	66 - 124	14	23
1,2-Dichloroethane	ND		0.0432	0.0509		mg/Kg	☼	118	61 - 127	13	23
1,1-Dichloroethene	ND		0.0432	0.0452		mg/Kg	☼	105	59 - 129	14	25
Ethylbenzene	ND		0.0432	0.0406		mg/Kg	☼	94	78 - 125	16	21
Methylene Chloride	ND		0.0432	0.0472		mg/Kg	☼	109	58 - 127	20	28
Methyl tert-butyl ether	ND		0.0432	0.0495		mg/Kg	☼	115	48 - 132	14	36
n-Butylbenzene	ND		0.0432	0.0462		mg/Kg	☼	107	59 - 145	22	24
N-Propylbenzene	ND		0.0432	0.0411		mg/Kg	☼	95	80 - 120	8	20
sec-Butylbenzene	ND		0.0432	0.0434		mg/Kg	☼	101	70 - 130	14	21
tert-Butylbenzene	ND		0.0432	0.0419		mg/Kg	☼	97	74 - 133	11	22
Tetrachloroethene	ND		0.0432	0.0359		mg/Kg	☼	83	78 - 129	12	20
Toluene	ND		0.0432	0.0400		mg/Kg	☼	93	78 - 124	12	21
trans-1,2-Dichloroethene	ND		0.0432	0.0470		mg/Kg	☼	109	77 - 121	15	20
1,1,1-Trichloroethane	ND		0.0432	0.0533		mg/Kg	☼	123	67 - 126	16	31
Trichloroethene	ND		0.0432	0.0399		mg/Kg	☼	92	76 - 119	14	21
1,2,4-Trimethylbenzene	ND		0.0432	0.0421		mg/Kg	☼	97	80 - 121	12	20
1,3,5-Trimethylbenzene	ND		0.0432	0.0422		mg/Kg	☼	98	68 - 133	11	21
Vinyl chloride	ND		0.0432	0.0438		mg/Kg	☼	101	63 - 124	18	27
Xylenes, Total	ND		0.0864	0.0805		mg/Kg	☼	93	83 - 126	16	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*63 - 120*

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 180-68986-7 MSD
Matrix: Solid
Analysis Batch: 219248

Client Sample ID: W5-b, S5, A 08.04.17
Prep Type: Total/NA
Prep Batch: 219255

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*104*		*68 - 121*
1,2-Dichloroethane-d4 (Surr)	*117*		*52 - 124*
Toluene-d8 (Surr)	*96*		*72 - 127*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 180-219432/1-A
Matrix: Water
Analysis Batch: 219660

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 219432

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		1.9	0.72	ug/L		08/08/17 11:53	08/10/17 10:40	1
Acenaphthylene	ND		1.9	0.60	ug/L		08/08/17 11:53	08/10/17 10:40	1
Anthracene	ND		1.9	0.56	ug/L		08/08/17 11:53	08/10/17 10:40	1
Benzo[a]anthracene	ND		1.9	1.2	ug/L		08/08/17 11:53	08/10/17 10:40	1
Benzo[a]pyrene	ND		1.9	0.89	ug/L		08/08/17 11:53	08/10/17 10:40	1
Benzo[b]fluoranthene	ND		1.9	0.66	ug/L		08/08/17 11:53	08/10/17 10:40	1
Benzo[g,h,i]perylene	ND		1.9	0.82	ug/L		08/08/17 11:53	08/10/17 10:40	1
Benzo[k]fluoranthene	ND		1.9	1.8	ug/L		08/08/17 11:53	08/10/17 10:40	1
Chrysene	ND		1.9	0.84	ug/L		08/08/17 11:53	08/10/17 10:40	1
Dibenz(a,h)anthracene	ND		1.9	0.78	ug/L		08/08/17 11:53	08/10/17 10:40	1
Dibenzofuran	ND		10	1.2	ug/L		08/08/17 11:53	08/10/17 10:40	1
2,4-Dinitrotoluene	ND		10	1.3	ug/L		08/08/17 11:53	08/10/17 10:40	1
1,4-Dioxane	ND		20	3.7	ug/L		08/08/17 11:53	08/10/17 10:40	1
Fluoranthene	ND		1.9	1.2	ug/L		08/08/17 11:53	08/10/17 10:40	1
Fluorene	ND		1.9	1.1	ug/L		08/08/17 11:53	08/10/17 10:40	1
Hexachlorobenzene	ND		1.9	1.0	ug/L		08/08/17 11:53	08/10/17 10:40	1
Hexachlorobutadiene	ND		1.9	0.57	ug/L		08/08/17 11:53	08/10/17 10:40	1
Hexachloroethane	ND		10	0.71	ug/L		08/08/17 11:53	08/10/17 10:40	1
Indeno[1,2,3-cd]pyrene	ND		1.9	0.77	ug/L		08/08/17 11:53	08/10/17 10:40	1
2-Methylphenol	ND		10	2.3	ug/L		08/08/17 11:53	08/10/17 10:40	1
Methylphenol, 3 & 4	ND		10	2.4	ug/L		08/08/17 11:53	08/10/17 10:40	1
Naphthalene	ND		1.9	1.8	ug/L		08/08/17 11:53	08/10/17 10:40	1
Nitrobenzene	ND		20	1.3	ug/L		08/08/17 11:53	08/10/17 10:40	1
Pentachlorophenol	ND		50	2.7	ug/L		08/08/17 11:53	08/10/17 10:40	1
Phenanthrene	ND		1.9	1.3	ug/L		08/08/17 11:53	08/10/17 10:40	1
Phenol	ND		10	3.0	ug/L		08/08/17 11:53	08/10/17 10:40	1
Pyrene	ND		1.9	0.92	ug/L		08/08/17 11:53	08/10/17 10:40	1
Pyridine	ND		10	4.4	ug/L		08/08/17 11:53	08/10/17 10:40	1
2,4,5-Trichlorophenol	ND		10	0.60	ug/L		08/08/17 11:53	08/10/17 10:40	1
2,4,6-Trichlorophenol	ND		10	0.74	ug/L		08/08/17 11:53	08/10/17 10:40	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*59*		*35 - 100*	*08/08/17 11:53*	*08/10/17 10:40*	*1*
2-Fluorophenol (Surr)	*65*		*22 - 100*	*08/08/17 11:53*	*08/10/17 10:40*	*1*
Nitrobenzene-d5 (Surr)	*56*		*29 - 100*	*08/08/17 11:53*	*08/10/17 10:40*	*1*
Phenol-d5 (Surr)	*57*		*25 - 100*	*08/08/17 11:53*	*08/10/17 10:40*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 180-219432/1-A
Matrix: Water
Analysis Batch: 219660

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 219432

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14 (Surr)	*57*		*20 - 116*	*08/08/17 11:53*	*08/10/17 10:40*	*1*
2,4,6-Tribromophenol (Surr)	*70*		*28 - 103*	*08/08/17 11:53*	*08/10/17 10:40*	*1*

Lab Sample ID: LCS 180-219432/2-A
Matrix: Water
Analysis Batch: 219660

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 219432

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	200	114		ug/L		57	47 - 100
Acenaphthylene	200	115		ug/L		58	49 - 100
Anthracene	200	119		ug/L		59	50 - 100
Benzo[a]anthracene	200	123		ug/L		62	48 - 100
Benzo[a]pyrene	200	122		ug/L		61	48 - 100
Benzo[b]fluoranthene	200	109		ug/L		55	45 - 100
Benzo[g,h,i]perylene	200	128		ug/L		64	44 - 104
Benzo[k]fluoranthene	200	118		ug/L		59	46 - 100
Chrysene	200	128		ug/L		64	48 - 100
Dibenz(a,h)anthracene	200	132		ug/L		66	44 - 104
Dibenzofuran	200	123		ug/L		62	49 - 100
2,4-Dinitrotoluene	200	141		ug/L		71	49 - 100
1,4-Dioxane	200	158		ug/L		79	29 - 100
Fluoranthene	200	130		ug/L		65	47 - 100
Fluorene	200	122		ug/L		61	48 - 100
Hexachlorobenzene	200	124		ug/L		62	47 - 100
Hexachlorobutadiene	200	143		ug/L		71	47 - 100
Hexachloroethane	200	124		ug/L		62	42 - 100
Indeno[1,2,3-cd]pyrene	200	129		ug/L		64	44 - 103
2-Methylphenol	200	121		ug/L		60	45 - 100
Methylphenol, 3 & 4	200	125		ug/L		62	46 - 100
Naphthalene	200	120		ug/L		60	47 - 100
Nitrobenzene	200	105		ug/L		52	46 - 100
Pentachlorophenol	400	233		ug/L		58	41 - 100
Phenanthrene	200	114		ug/L		57	48 - 100
Phenol	200	116		ug/L		58	44 - 100
Pyrene	200	115		ug/L		58	45 - 100
Pyridine	400	322		ug/L		80	29 - 114
2,4,5-Trichlorophenol	200	120		ug/L		60	50 - 100
2,4,6-Trichlorophenol	200	124		ug/L		62	51 - 100

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	*57*		*35 - 100*
2-Fluorophenol (Surr)	*70*		*22 - 100*
Nitrobenzene-d5 (Surr)	*54*		*29 - 100*
Phenol-d5 (Surr)	*59*		*25 - 100*
Terphenyl-d14 (Surr)	*62*		*20 - 116*
2,4,6-Tribromophenol (Surr)	*68*		*28 - 103*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 180-219432/3-A
Matrix: Water
Analysis Batch: 219660

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 219432

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	200	118		ug/L		59	47 - 100	3	15
Acenaphthylene	200	119		ug/L		60	49 - 100	3	15
Anthracene	200	119		ug/L		60	50 - 100	0	15
Benzo[a]anthracene	200	125		ug/L		62	48 - 100	1	15
Benzo[a]pyrene	200	126		ug/L		63	48 - 100	3	15
Benzo[b]fluoranthene	200	116		ug/L		58	45 - 100	6	15
Benzo[g,h,i]perylene	200	132		ug/L		66	44 - 104	2	15
Benzo[k]fluoranthene	200	114		ug/L		57	46 - 100	3	15
Chrysene	200	128		ug/L		64	48 - 100	1	15
Dibenz(a,h)anthracene	200	135		ug/L		68	44 - 104	3	15
Dibenzofuran	200	127		ug/L		64	49 - 100	3	15
2,4-Dinitrotoluene	200	147		ug/L		73	49 - 100	4	15
1,4-Dioxane	200	166		ug/L		83	29 - 100	5	15
Fluoranthene	200	132		ug/L		66	47 - 100	1	15
Fluorene	200	128		ug/L		64	48 - 100	4	15
Hexachlorobenzene	200	125		ug/L		62	47 - 100	0	15
Hexachlorobutadiene	200	148		ug/L		74	47 - 100	4	15
Hexachloroethane	200	131		ug/L		65	42 - 100	5	15
Indeno[1,2,3-cd]pyrene	200	132		ug/L		66	44 - 103	2	15
2-Methylphenol	200	125		ug/L		63	45 - 100	4	15
Methylphenol, 3 & 4	200	126		ug/L		63	46 - 100	1	15
Naphthalene	200	123		ug/L		61	47 - 100	2	15
Nitrobenzene	200	109		ug/L		55	46 - 100	4	15
Pentachlorophenol	400	236		ug/L		59	41 - 100	1	15
Phenanthrene	200	117		ug/L		59	48 - 100	3	15
Phenol	200	120		ug/L		60	44 - 100	4	15
Pyrene	200	118		ug/L		59	45 - 100	2	15
Pyridine	400	339		ug/L		85	29 - 114	5	35
2,4,5-Trichlorophenol	200	126		ug/L		63	50 - 100	4	15
2,4,6-Trichlorophenol	200	127		ug/L		63	51 - 100	2	15

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*58*		*35 - 100*
2-Fluorophenol (Surr)	*72*		*22 - 100*
Nitrobenzene-d5 (Surr)	*56*		*29 - 100*
Phenol-d5 (Surr)	*62*		*25 - 100*
Terphenyl-d14 (Surr)	*63*		*20 - 116*
2,4,6-Tribromophenol (Surr)	*69*		*28 - 103*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Lab Sample ID: MB 180-220050/1-A
Matrix: Solid
Analysis Batch: 220091

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 220050

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.0034	0.0011	mg/Kg		08/15/17 03:27	08/15/17 10:21	1

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: MB 180-220050/1-A
Matrix: Solid
Analysis Batch: 220091

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 220050

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthylene	ND		0.0034	0.0011	mg/Kg		08/15/17 03:27	08/15/17 10:21	1
Anthracene	ND		0.0034	0.0012	mg/Kg		08/15/17 03:27	08/15/17 10:21	1
Benzo[a]anthracene	ND		0.0034	0.0013	mg/Kg		08/15/17 03:27	08/15/17 10:21	1
Benzo[a]pyrene	ND		0.0034	0.0014	mg/Kg		08/15/17 03:27	08/15/17 10:21	1
Benzo[b]fluoranthene	ND		0.0034	0.0014	mg/Kg		08/15/17 03:27	08/15/17 10:21	1
Benzo[g,h,i]perylene	ND		0.0034	0.0014	mg/Kg		08/15/17 03:27	08/15/17 10:21	1
Benzo[k]fluoranthene	ND		0.0034	0.0012	mg/Kg		08/15/17 03:27	08/15/17 10:21	1
Chrysene	ND		0.0034	0.0013	mg/Kg		08/15/17 03:27	08/15/17 10:21	1
Dibenz(a,h)anthracene	ND		0.0034	0.0014	mg/Kg		08/15/17 03:27	08/15/17 10:21	1
Dibenzofuran	ND		0.017	0.0013	mg/Kg		08/15/17 03:27	08/15/17 10:21	1
2,4-Dinitrotoluene	ND		17	2.2	ug/Kg		08/15/17 03:27	08/15/17 10:21	1
1,4-Dioxane	ND		0.033	0.0025	mg/Kg		08/15/17 03:27	08/15/17 10:21	1
Fluoranthene	ND		0.0034	0.0013	mg/Kg		08/15/17 03:27	08/15/17 10:21	1
Fluorene	ND		0.0034	0.0012	mg/Kg		08/15/17 03:27	08/15/17 10:21	1
Hexachlorobenzene	ND		0.0034	0.0013	mg/Kg		08/15/17 03:27	08/15/17 10:21	1
Hexachlorobutadiene	ND		3.4	1.1	ug/Kg		08/15/17 03:27	08/15/17 10:21	1
Hexachloroethane	ND		17	1.2	ug/Kg		08/15/17 03:27	08/15/17 10:21	1
Indeno[1,2,3-cd]pyrene	ND		0.0034	0.0013	mg/Kg		08/15/17 03:27	08/15/17 10:21	1
2-Methylphenol	ND		0.017	0.0015	mg/Kg		08/15/17 03:27	08/15/17 10:21	1
Methylphenol, 3 & 4	ND		0.017	0.0015	mg/Kg		08/15/17 03:27	08/15/17 10:21	1
Naphthalene	ND		0.0034	0.0012	mg/Kg		08/15/17 03:27	08/15/17 10:21	1
Nitrobenzene	ND		33	1.3	ug/Kg		08/15/17 03:27	08/15/17 10:21	1
Pentachlorophenol	ND		0.085	0.032	mg/Kg		08/15/17 03:27	08/15/17 10:21	1
Phenanthrene	ND		0.0034	0.0014	mg/Kg		08/15/17 03:27	08/15/17 10:21	1
Phenol	ND		0.017	0.0023	mg/Kg		08/15/17 03:27	08/15/17 10:21	1
Pyrene	ND		0.0034	0.0015	mg/Kg		08/15/17 03:27	08/15/17 10:21	1
Pyridine	ND		17	1.6	ug/Kg		08/15/17 03:27	08/15/17 10:21	1
2,4,5-Trichlorophenol	ND		17	1.6	ug/Kg		08/15/17 03:27	08/15/17 10:21	1
2,4,6-Trichlorophenol	ND		17	1.5	ug/Kg		08/15/17 03:27	08/15/17 10:21	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*69*		*42 - 100*	*08/15/17 03:27*	*08/15/17 10:21*	*1*
2-Fluorophenol (Surr)	*75*		*21 - 107*	*08/15/17 03:27*	*08/15/17 10:21*	*1*
Nitrobenzene-d5 (Surr)	*71*		*35 - 109*	*08/15/17 03:27*	*08/15/17 10:21*	*1*
Phenol-d5 (Surr)	*73*		*29 - 105*	*08/15/17 03:27*	*08/15/17 10:21*	*1*
Terphenyl-d14 (Surr)	*72*		*36 - 113*	*08/15/17 03:27*	*08/15/17 10:21*	*1*
2,4,6-Tribromophenol (Surr)	*67*		*20 - 134*	*08/15/17 03:27*	*08/15/17 10:21*	*1*

Lab Sample ID: LCS 180-220050/2-A
Matrix: Solid
Analysis Batch: 220091

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 220050

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	0.333	0.244		mg/Kg		73	39 - 100
Acenaphthylene	0.333	0.246		mg/Kg		74	42 - 100
Anthracene	0.333	0.242		mg/Kg		73	43 - 100
Benzo[a]anthracene	0.333	0.242		mg/Kg		72	43 - 100
Benzo[a]pyrene	0.333	0.238		mg/Kg		72	43 - 100

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCS 180-220050/2-A
Matrix: Solid
Analysis Batch: 220091

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 220050

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzo[b]fluoranthene	0.333	0.236		mg/Kg		71	40 - 100
Benzo[g,h,i]perylene	0.333	0.266		mg/Kg		80	41 - 102
Benzo[k]fluoranthene	0.333	0.241		mg/Kg		72	44 - 100
Chrysene	0.333	0.230		mg/Kg		69	44 - 100
Dibenz(a,h)anthracene	0.333	0.278		mg/Kg		83	40 - 104
Dibenzofuran	0.333	0.245		mg/Kg		73	42 - 100
2,4-Dinitrotoluene	333	264		ug/Kg		79	42 - 110
1,4-Dioxane	0.333	0.235		mg/Kg		71	19 - 107
Fluoranthene	0.333	0.250		mg/Kg		75	41 - 104
Fluorene	0.333	0.246		mg/Kg		74	41 - 100
Hexachlorobenzene	0.333	0.229		mg/Kg		69	43 - 100
Hexachlorobutadiene	333	223		ug/Kg		67	35 - 100
Hexachloroethane	333	240		ug/Kg		72	35 - 100
Indeno[1,2,3-cd]pyrene	0.333	0.275		mg/Kg		82	41 - 104
2-Methylphenol	0.333	0.244		mg/Kg		73	38 - 100
Methylphenol, 3 & 4	0.333	0.245		mg/Kg		73	40 - 100
Naphthalene	0.333	0.233		mg/Kg		70	38 - 100
Nitrobenzene	333	240		ug/Kg		72	34 - 100
Pentachlorophenol	0.667	0.498		mg/Kg		75	34 - 102
Phenanthrene	0.333	0.235		mg/Kg		70	41 - 100
Phenol	0.333	0.240		mg/Kg		72	36 - 100
Pyrene	0.333	0.242		mg/Kg		73	42 - 100
Pyridine	667	488		ug/Kg		73	25 - 119
2,4,5-Trichlorophenol	333	241		ug/Kg		72	42 - 100
2,4,6-Trichlorophenol	333	259		ug/Kg		78	41 - 103

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*69*		*42 - 100*
2-Fluorophenol (Surr)	*72*		*21 - 107*
Nitrobenzene-d5 (Surr)	*73*		*35 - 109*
Phenol-d5 (Surr)	*73*		*29 - 105*
Terphenyl-d14 (Surr)	*70*		*36 - 113*
2,4,6-Tribromophenol (Surr)	*69*		*20 - 134*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 180-219453/1-A
Matrix: Water
Analysis Batch: 219515

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 219453

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.40	0.14	ug/L		08/08/17 13:10	08/09/17 09:32	1
PCB-1221	ND		0.40	0.37	ug/L		08/08/17 13:10	08/09/17 09:32	1
PCB-1232	ND		0.40	0.13	ug/L		08/08/17 13:10	08/09/17 09:32	1
PCB-1242	ND		0.40	0.37	ug/L		08/08/17 13:10	08/09/17 09:32	1
PCB-1248	ND		0.40	0.27	ug/L		08/08/17 13:10	08/09/17 09:32	1
PCB-1254	ND		0.40	0.20	ug/L		08/08/17 13:10	08/09/17 09:32	1
PCB-1260	ND		0.40	0.23	ug/L		08/08/17 13:10	08/09/17 09:32	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: MB 180-219453/1-A
Matrix: Water
Analysis Batch: 219515

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 219453

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1262	ND		0.40	0.27	ug/L		08/08/17 13:10	08/09/17 09:32	1
PCB-1268	ND		0.40	0.26	ug/L		08/08/17 13:10	08/09/17 09:32	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*96*		*52 - 131*	*08/08/17 13:10*	*08/09/17 09:32*	*1*
DCB Decachlorobiphenyl (Surr)	*99*		*52 - 131*	*08/08/17 13:10*	*08/09/17 09:32*	*1*
Tetrachloro-m-xylene (Surr)	*105*		*50 - 124*	*08/08/17 13:10*	*08/09/17 09:32*	*1*
Tetrachloro-m-xylene (Surr)	*98*		*50 - 124*	*08/08/17 13:10*	*08/09/17 09:32*	*1*

Lab Sample ID: LCS 180-219453/2-A
Matrix: Water
Analysis Batch: 219515

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 219453

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			40.0	37.5		ug/L		94	57 - 129		
PCB-1260			40.0	38.9		ug/L		97	56 - 131		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*90*		*52 - 131*
DCB Decachlorobiphenyl (Surr)	*96*		*52 - 131*
Tetrachloro-m-xylene (Surr)	*101*		*50 - 124*
Tetrachloro-m-xylene (Surr)	*90*		*50 - 124*

Lab Sample ID: LCSD 180-219453/3-A
Matrix: Water
Analysis Batch: 219515

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 219453

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016			40.0	38.8		ug/L		97	57 - 129	3	20
PCB-1260			40.0	40.1		ug/L		100	56 - 131	3	22

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*93*		*52 - 131*
DCB Decachlorobiphenyl (Surr)	*96*		*52 - 131*
Tetrachloro-m-xylene (Surr)	*100*		*50 - 124*
Tetrachloro-m-xylene (Surr)	*92*		*50 - 124*

Lab Sample ID: MB 180-220051/1-A
Matrix: Solid
Analysis Batch: 220079

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 220051

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.017	0.0088	mg/Kg		08/15/17 03:35	08/15/17 10:51	1
PCB-1221	ND		0.017	0.0086	mg/Kg		08/15/17 03:35	08/15/17 10:51	1
PCB-1232	ND		0.017	0.0066	mg/Kg		08/15/17 03:35	08/15/17 10:51	1
PCB-1242	ND		0.017	0.013	mg/Kg		08/15/17 03:35	08/15/17 10:51	1
PCB-1248	ND		0.017	0.0080	mg/Kg		08/15/17 03:35	08/15/17 10:51	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: MB 180-220051/1-A
Matrix: Solid
Analysis Batch: 220079

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 220051

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1254	ND		0.017	0.0073	mg/Kg		08/15/17 03:35	08/15/17 10:51	1
PCB-1260	ND		0.017	0.011	mg/Kg		08/15/17 03:35	08/15/17 10:51	1
PCB-1262	ND		0.017	0.012	mg/Kg		08/15/17 03:35	08/15/17 10:51	1
PCB-1268	ND		0.017	0.0051	mg/Kg		08/15/17 03:35	08/15/17 10:51	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*98*		*23 - 150*	*08/15/17 03:35*	*08/15/17 10:51*	*1*
DCB Decachlorobiphenyl (Surr)	*98*		*23 - 150*	*08/15/17 03:35*	*08/15/17 10:51*	*1*
Tetrachloro-m-xylene (Surr)	*104*		*27 - 138*	*08/15/17 03:35*	*08/15/17 10:51*	*1*
Tetrachloro-m-xylene (Surr)	*102*		*27 - 138*	*08/15/17 03:35*	*08/15/17 10:51*	*1*

Lab Sample ID: LCS 180-220051/4-A
Matrix: Solid
Analysis Batch: 220079

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 220051

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			1.33	1.17		mg/Kg		87	52 - 126		
PCB-1260			1.33	1.05		mg/Kg		78	50 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*90*		*23 - 150*
DCB Decachlorobiphenyl (Surr)	*89*		*23 - 150*
Tetrachloro-m-xylene (Surr)	*88*		*27 - 138*
Tetrachloro-m-xylene (Surr)	*86*		*27 - 138*

Lab Sample ID: LCSD 180-220051/5-A
Matrix: Solid
Analysis Batch: 220079

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 220051

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016			1.33	1.26		mg/Kg		95	52 - 126	8	20
PCB-1260			1.33	1.10		mg/Kg		82	50 - 130	5	21

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*90*		*23 - 150*
DCB Decachlorobiphenyl (Surr)	*89*		*23 - 150*
Tetrachloro-m-xylene (Surr)	*93*		*27 - 138*
Tetrachloro-m-xylene (Surr)	*87*		*27 - 138*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 180-219443/1-A
Matrix: Solid
Analysis Batch: 219711

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 219443

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		1.0	0.44	mg/Kg		08/08/17 14:03	08/10/17 12:09	1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: MB 180-219443/1-A
Matrix: Solid
Analysis Batch: 219711

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 219443

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	ND		20	5.4	mg/Kg		08/08/17 14:03	08/10/17 12:09	1
Beryllium	ND		0.40	0.10	mg/Kg		08/08/17 14:03	08/10/17 12:09	1
Cadmium	ND		0.50	0.11	mg/Kg		08/08/17 14:03	08/10/17 12:09	1
Chromium	ND		0.50	0.13	mg/Kg		08/08/17 14:03	08/10/17 12:09	1
Copper	ND		2.5	0.77	mg/Kg		08/08/17 14:03	08/10/17 12:09	1
Lead	ND		1.0	0.33	mg/Kg		08/08/17 14:03	08/10/17 12:09	1
Manganese	ND		1.5	0.41	mg/Kg		08/08/17 14:03	08/10/17 12:09	1
Nickel	ND		4.0	0.90	mg/Kg		08/08/17 14:03	08/10/17 12:09	1
Selenium	ND		1.0	0.40	mg/Kg		08/08/17 14:03	08/10/17 12:09	1
Silver	ND		0.50	0.17	mg/Kg		08/08/17 14:03	08/10/17 12:09	1
Zinc	ND		2.0	1.0	mg/Kg		08/08/17 14:03	08/10/17 12:09	1

Lab Sample ID: LCS 180-219443/2-A
Matrix: Solid
Analysis Batch: 219711

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 219443

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	50.0	51.5		mg/Kg		103	80 - 120
Barium	200	208		mg/Kg		104	80 - 120
Beryllium	5.00	5.25		mg/Kg		105	80 - 120
Cadmium	5.00	5.11		mg/Kg		102	80 - 120
Chromium	20.0	19.8		mg/Kg		99	80 - 120
Copper	25.0	25.3		mg/Kg		101	80 - 120
Lead	50.0	51.2		mg/Kg		102	80 - 120
Manganese	50.0	50.1		mg/Kg		100	80 - 120
Nickel	50.0	51.4		mg/Kg		103	80 - 120
Selenium	50.0	52.3		mg/Kg		105	80 - 120
Silver	5.00	5.03		mg/Kg		101	80 - 120
Zinc	50.0	49.8		mg/Kg		100	80 - 120

Lab Sample ID: MB 180-219379/1-A
Matrix: Water
Analysis Batch: 219637

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 219379

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		10	4.1	ug/L		08/08/17 08:08	08/09/17 12:58	1
Barium	ND		200	1.1	ug/L		08/08/17 08:08	08/09/17 12:58	1
Beryllium	ND		4.0	0.33	ug/L		08/08/17 08:08	08/09/17 12:58	1
Cadmium	ND		5.0	0.16	ug/L		08/08/17 08:08	08/09/17 12:58	1
Chromium	ND		5.0	0.78	ug/L		08/08/17 08:08	08/09/17 12:58	1
Copper	ND		25	2.2	ug/L		08/08/17 08:08	08/09/17 12:58	1
Lead	ND		10	2.9	ug/L		08/08/17 08:08	08/09/17 12:58	1
Manganese	ND		15	2.7	ug/L		08/08/17 08:08	08/09/17 12:58	1
Nickel	ND		40	1.5	ug/L		08/08/17 08:08	08/09/17 12:58	1
Selenium	ND		10	3.6	ug/L		08/08/17 08:08	08/09/17 12:58	1
Silver	ND		5.0	0.85	ug/L		08/08/17 08:08	08/09/17 12:58	1
Zinc	ND		20	5.8	ug/L		08/08/17 08:08	08/09/17 12:58	1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCS 180-219379/2-A
Matrix: Water
Analysis Batch: 219637

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 219379

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	500	516		ug/L		103	80 - 120
Barium	2000	1960		ug/L		98	80 - 120
Beryllium	50.0	50.0		ug/L		100	80 - 120
Cadmium	50.0	51.0		ug/L		102	80 - 120
Chromium	200	191		ug/L		96	80 - 120
Copper	250	246		ug/L		98	80 - 120
Lead	500	506		ug/L		101	80 - 120
Manganese	500	486		ug/L		97	80 - 120
Nickel	500	501		ug/L		100	80 - 120
Selenium	500	531		ug/L		106	80 - 120
Silver	50.0	51.2		ug/L		102	80 - 120
Zinc	500	489		ug/L		98	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 180-219569/1-A
Matrix: Water
Analysis Batch: 219697

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 219569

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.065	ug/L		08/09/17 12:32	08/10/17 08:58	1

Lab Sample ID: LCS 180-219569/2-A
Matrix: Water
Analysis Batch: 219697

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 219569

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	2.50	2.59		ug/L		103	80 - 120

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 180-219480/1-A
Matrix: Solid
Analysis Batch: 219600

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 219480

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.033	0.0074	mg/Kg		08/08/17 17:30	08/09/17 11:20	1

Lab Sample ID: LCS 180-219480/2-A
Matrix: Solid
Analysis Batch: 219600

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 219480

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.417	0.456		mg/Kg		109	80 - 120

Method: 9014 - Cyanide

Lab Sample ID: MB 180-219684/4-A
Matrix: Solid
Analysis Batch: 219797

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 219684

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.50	0.15	mg/Kg		08/10/17 12:11	08/10/17 15:27	1

Lab Sample ID: HLCS 180-219684/2-A
Matrix: Solid
Analysis Batch: 219797

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 219684

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.250	0.236		mg/Kg		95	90 - 110

Lab Sample ID: LCS 180-219684/3-A
Matrix: Solid
Analysis Batch: 219797

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 219684

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	154	141		mg/Kg		91	38 - 162

Lab Sample ID: LLCS 180-219684/1-A
Matrix: Solid
Analysis Batch: 219797

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 219684

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.0500	0.0479		mg/Kg		96	90 - 110

Lab Sample ID: MB 180-219686/5-A
Matrix: Water
Analysis Batch: 219797

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 219686

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		10	3.3	ug/L		08/10/17 12:11	08/10/17 16:52	1

Lab Sample ID: HLCS 180-219686/2-A
Matrix: Water
Analysis Batch: 219797

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 219686

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	250	248		ug/L		99	90 - 110

Lab Sample ID: LCS 180-219686/3-A
Matrix: Water
Analysis Batch: 219797

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 219686

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	200	206		ug/L		103	85 - 115

Lab Sample ID: LCSD 180-219686/4-A
Matrix: Water
Analysis Batch: 219797

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 219686

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cyanide, Total	200	202		ug/L		101	85 - 115	2	20

QC Sample Results

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-68986-1

Lab Sample ID: LLCS 180-219686/1-A
Matrix: Water
Analysis Batch: 219797

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 219686

Analyte			Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cyanide, Total			50.0	49.3		ug/L		99	90 - 110		

GC/MS VOA

Analysis Batch: 219248

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68986-7	W5-b, S5, A 08.04.17	Total/NA	Solid	8260C	219255
180-68986-8	W5-b, S5, B 08.04.17	Total/NA	Solid	8260C	219255
MB 180-219248/8	Method Blank	Total/NA	Solid	8260C	
LCS 180-219248/3	Lab Control Sample	Total/NA	Solid	8260C	
180-68986-7 MS	W5-b, S5, A 08.04.17	Total/NA	Solid	8260C	219255
180-68986-7 MSD	W5-b, S5, A 08.04.17	Total/NA	Solid	8260C	219255

Prep Batch: 219255

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68986-7	W5-b, S5, A 08.04.17	Total/NA	Solid	5035	
180-68986-8	W5-b, S5, B 08.04.17	Total/NA	Solid	5035	
180-68986-7 MS	W5-b, S5, A 08.04.17	Total/NA	Solid	5035	
180-68986-7 MSD	W5-b, S5, A 08.04.17	Total/NA	Solid	5035	

Analysis Batch: 219341

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68986-1	EQ BLK #1 08.03.17	Total/NA	Water	8260C	
180-68986-2	EQ BLK #2 08.04.17	Total/NA	Water	8260C	
180-68986-10	TRIP BLANK #1	Total/NA	Water	8260C	
180-68986-11	TRIP BLANK #2	Total/NA	Water	8260C	
MB 180-219341/5	Method Blank	Total/NA	Water	8260C	
LCS 180-219341/3	Lab Control Sample	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 219432

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68986-1	EQ BLK #1 08.03.17	Total/NA	Water	3520C	
180-68986-2	EQ BLK #2 08.04.17	Total/NA	Water	3520C	
MB 180-219432/1-A	Method Blank	Total/NA	Water	3520C	
LCS 180-219432/2-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 180-219432/3-A	Lab Control Sample Dup	Total/NA	Water	3520C	

Analysis Batch: 219660

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68986-1	EQ BLK #1 08.03.17	Total/NA	Water	8270D	219432
180-68986-2	EQ BLK #2 08.04.17	Total/NA	Water	8270D	219432
MB 180-219432/1-A	Method Blank	Total/NA	Water	8270D	219432
LCS 180-219432/2-A	Lab Control Sample	Total/NA	Water	8270D	219432
LCSD 180-219432/3-A	Lab Control Sample Dup	Total/NA	Water	8270D	219432

Prep Batch: 220050

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68986-9	W5-b, S5, C 08.04.17	Total/NA	Solid	3541	
MB 180-220050/1-A	Method Blank	Total/NA	Solid	3541	
LCS 180-220050/2-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 220091

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68986-9	W5-b, S5, C 08.04.17	Total/NA	Solid	8270D LL	220050

GC/MS Semi VOA (Continued)

Analysis Batch: 220091 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 180-220050/1-A	Method Blank	Total/NA	Solid	8270D LL	220050
LCS 180-220050/2-A	Lab Control Sample	Total/NA	Solid	8270D LL	220050

GC Semi VOA

Prep Batch: 219453

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68986-1	EQ BLK #1 08.03.17	Total/NA	Water	3510C	
180-68986-2	EQ BLK #2 08.04.17	Total/NA	Water	3510C	
MB 180-219453/1-A	Method Blank	Total/NA	Water	3510C	
LCS 180-219453/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 180-219453/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Cleanup Batch: 219502

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68986-1	EQ BLK #1 08.03.17	Total/NA	Water	3665A	219453
180-68986-2	EQ BLK #2 08.04.17	Total/NA	Water	3665A	219453

Cleanup Batch: 219504

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68986-1	EQ BLK #1 08.03.17	Total/NA	Water	3660B	219502
180-68986-2	EQ BLK #2 08.04.17	Total/NA	Water	3660B	219502

Analysis Batch: 219515

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68986-1	EQ BLK #1 08.03.17	Total/NA	Water	8082A	219504
180-68986-2	EQ BLK #2 08.04.17	Total/NA	Water	8082A	219504
MB 180-219453/1-A	Method Blank	Total/NA	Water	8082A	219453
LCS 180-219453/2-A	Lab Control Sample	Total/NA	Water	8082A	219453
LCSD 180-219453/3-A	Lab Control Sample Dup	Total/NA	Water	8082A	219453

Prep Batch: 220051

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68986-9	W5-b, S5, C 08.04.17	Total/NA	Solid	3541	
MB 180-220051/1-A	Method Blank	Total/NA	Solid	3541	
LCS 180-220051/4-A	Lab Control Sample	Total/NA	Solid	3541	
LCSD 180-220051/5-A	Lab Control Sample Dup	Total/NA	Solid	3541	

Analysis Batch: 220079

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 180-220051/1-A	Method Blank	Total/NA	Solid	8082A	220051
LCS 180-220051/4-A	Lab Control Sample	Total/NA	Solid	8082A	220051
LCSD 180-220051/5-A	Lab Control Sample Dup	Total/NA	Solid	8082A	220051

Cleanup Batch: 220101

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68986-9	W5-b, S5, C 08.04.17	Total/NA	Solid	3665A	220051

GC Semi VOA (Continued)

Cleanup Batch: 220102

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68986-9	W5-b, S5, C 08.04.17	Total/NA	Solid	3660B	220101

Analysis Batch: 220173

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68986-9	W5-b, S5, C 08.04.17	Total/NA	Solid	8082A	220102

Metals

Prep Batch: 219379

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68986-1	EQ BLK #1 08.03.17	Total Recoverable	Water	3005A	
180-68986-2	EQ BLK #2 08.04.17	Total Recoverable	Water	3005A	
MB 180-219379/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 180-219379/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Prep Batch: 219443

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68986-9	W5-b, S5, C 08.04.17	Total/NA	Solid	3050B	
MB 180-219443/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 180-219443/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Prep Batch: 219480

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68986-9	W5-b, S5, C 08.04.17	Total/NA	Solid	7471B	
MB 180-219480/1-A	Method Blank	Total/NA	Solid	7471B	
LCS 180-219480/2-A	Lab Control Sample	Total/NA	Solid	7471B	

Prep Batch: 219569

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68986-1	EQ BLK #1 08.03.17	Total/NA	Water	7470A	
180-68986-2	EQ BLK #2 08.04.17	Total/NA	Water	7470A	
MB 180-219569/1-A	Method Blank	Total/NA	Water	7470A	
LCS 180-219569/2-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 219600

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68986-9	W5-b, S5, C 08.04.17	Total/NA	Solid	7471B	219480
MB 180-219480/1-A	Method Blank	Total/NA	Solid	7471B	219480
LCS 180-219480/2-A	Lab Control Sample	Total/NA	Solid	7471B	219480

Analysis Batch: 219637

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68986-1	EQ BLK #1 08.03.17	Total Recoverable	Water	6010C	219379
180-68986-2	EQ BLK #2 08.04.17	Total Recoverable	Water	6010C	219379
MB 180-219379/1-A	Method Blank	Total Recoverable	Water	6010C	219379
LCS 180-219379/2-A	Lab Control Sample	Total Recoverable	Water	6010C	219379

Analysis Batch: 219697

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68986-1	EQ BLK #1 08.03.17	Total/NA	Water	7470A	219569

Metals (Continued)

Analysis Batch: 219697 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68986-2	EQ BLK #2 08.04.17	Total/NA	Water	7470A	219569
MB 180-219569/1-A	Method Blank	Total/NA	Water	7470A	219569
LCS 180-219569/2-A	Lab Control Sample	Total/NA	Water	7470A	219569

Analysis Batch: 219711

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68986-9	W5-b, S5, C 08.04.17	Total/NA	Solid	6010C	219443
MB 180-219443/1-A	Method Blank	Total/NA	Solid	6010C	219443
LCS 180-219443/2-A	Lab Control Sample	Total/NA	Solid	6010C	219443

General Chemistry

Analysis Batch: 219454

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68986-7	W5-b, S5, A 08.04.17	Total/NA	Solid	2540G	
180-68986-8	W5-b, S5, B 08.04.17	Total/NA	Solid	2540G	
180-68986-9	W5-b, S5, C 08.04.17	Total/NA	Solid	2540G	

Prep Batch: 219684

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68986-9	W5-b, S5, C 08.04.17	Total/NA	Solid	9010C	
MB 180-219684/4-A	Method Blank	Total/NA	Solid	9010C	
HLCS 180-219684/2-A	Lab Control Sample	Total/NA	Solid	9010C	
LCS 180-219684/3-A	Lab Control Sample	Total/NA	Solid	9010C	
LLCS 180-219684/1-A	Lab Control Sample	Total/NA	Solid	9010C	

Prep Batch: 219686

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68986-1	EQ BLK #1 08.03.17	Total/NA	Water	9010C	
180-68986-2	EQ BLK #2 08.04.17	Total/NA	Water	9010C	
MB 180-219686/5-A	Method Blank	Total/NA	Water	9010C	
HLCS 180-219686/2-A	Lab Control Sample	Total/NA	Water	9010C	
LCS 180-219686/3-A	Lab Control Sample	Total/NA	Water	9010C	
LCSD 180-219686/4-A	Lab Control Sample Dup	Total/NA	Water	9010C	
LLCS 180-219686/1-A	Lab Control Sample	Total/NA	Water	9010C	

Analysis Batch: 219797

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-68986-1	EQ BLK #1 08.03.17	Total/NA	Water	9014	219686
180-68986-2	EQ BLK #2 08.04.17	Total/NA	Water	9014	219686
180-68986-9	W5-b, S5, C 08.04.17	Total/NA	Solid	9014	219684
MB 180-219684/4-A	Method Blank	Total/NA	Solid	9014	219684
MB 180-219686/5-A	Method Blank	Total/NA	Water	9014	219686
HLCS 180-219684/2-A	Lab Control Sample	Total/NA	Solid	9014	219684
HLCS 180-219686/2-A	Lab Control Sample	Total/NA	Water	9014	219686
LCS 180-219684/3-A	Lab Control Sample	Total/NA	Solid	9014	219684
LCS 180-219686/3-A	Lab Control Sample	Total/NA	Water	9014	219686
LCSD 180-219686/4-A	Lab Control Sample Dup	Total/NA	Water	9014	219686
LLCS 180-219684/1-A	Lab Control Sample	Total/NA	Solid	9014	219684
LLCS 180-219686/1-A	Lab Control Sample	Total/NA	Water	9014	219686

TestAmerica Pittsburgh
301 Alpha Drive RIDC Park
Pittsburgh, PA 15238
Phone (412) 963-7058 Fax (412) 963-2468

Chain of Custody Record

180-68986 Chain of Custody

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THE LEADER IN ENVIRONMENTAL TESTING

OC No: ~~80-38494-8381.1~~
Page: Page 1 of 1
Job #:

Client Information	Sampler: Ellen Buelow	Lab PM: Dunlap, David A
Client Contact: Ashwin Ranna, Aron Krasnopoler	Phone: 412-552-4758	E-Mail: david.dunlap@testamericainc.com
Company: Geosyntec Consultants, Inc.		
Address: Penn Center West One, Suite 402 1 Penn Center West Drive	Due Date Requested:	
City: Pittsburgh	TAT Requested (days): 1 day TAT	
State, Zip: PA, 15276		
Phone:	PO #: MN0832B	
Email: aranna@geosyntec.com; akrasnopoler@geosyntec.com	WO #:	
Project Name: Former Sperry Remington Site - North IRM	Project #: 18013464	
Site: Elmira	SSOW#:	

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - VOA-Select List	6010C, 7471B, 9014 - Select ICP Metals, Mercury, Cyanide	8082A, 8270D, PCBs, Select BNA	8260C - VOA-Select List (Trip Blanks only)	TCLP RCRA METALS	TCLP SEMI VOA	TCLP VOC	PCBS	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	A						
EQ BLK #1 08.03.17	08.03.17	13:40	G	W ~~Solid~~	N	N	X	X	X		X	X	X		9	TRIP BLANK #1
EQ BLK #2 08.04.17	08.04.17	7:00	G	W ~~Solid~~	N	N	X	X	X		X	X	X		8	
WB1-2,S3,A 08.04.17	08.04.17	8:35	G	Solid	N	N							X		3	
WB1-2,S3,C 08.04.17	08.04.17	8:45	C	Solid	N	N					X	X		X	1	
WB1-2,S4,A 08.04.17	08.04.17	10:50	G	Solid	N	N							X		3	
WB1-2,S4,C 08.04.17	08.04.17	10:40	C	Solid	N	N					X	X		X	1	TRIP BLK #2
~~WB~~ WS-b,S5,A 08.04.17	08.04.17	10:55	G	Solid	N	Y	X								12	MS/MSD L4
WS-b,S5,B 08.04.17	08.04.17	11:05	G	Solid	N	N	X								4	
WS-b,S5,C 08.04.17	08.04.17	11:10	C	Solid	N	N		X	X						2	
TRIP BLANK #1	08.04.17	—	—	W ~~Solid~~						X					2	
TRIP BLANK #2	08.04.17	—	—	W Solid						X					2	

RUSH

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment: Fedex

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Ashwin Ranna	8-4-2017 / 1830	Geosyntec	[signature]	8-5-17	TAL
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 9:00	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks:

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 180-68986-1

Login Number: 68986
List Number: 1
Creator: Watson, Debbie

List Source: TestAmerica Pittsburgh

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	False	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

TestAmerica Job ID: 180-69679-1
Client Project/Site: Former Sperry Remington Site - North IRM

For:
Geosyntec Consultants, Inc.
10211 Wincopin Circle
4'th Floor
Columbia, Maryland 21044

Attn: Mr. Aron Krasnopoler

Authorized for release by:
8/30/2017 4:50:52 PM

David Dunlap, Senior Project Manager
(412)963-2432
david.dunlap@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-69679-1

Job ID: 180-69679-1

Laboratory: TestAmerica Pittsburgh

Narrative

Job Narrative
180-69679-1

Receipt
The samples were received on 8/25/2017 7:55 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.1° C.

GC/MS VOA
Method(s) 8260C: The continuing calibration verification (CCV) analyzed in batch 180-221134 was below criteria for the following analytes: 2-butanone and vinyl chloride. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte is considered estimated.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method(s) 8270D LL: The continuing calibration verification (CCV) analyzed in batch 180-221263 was above criteria for the following analytes: 1,4-dioxane, pentachlorophenol, and pyridine. As the CCV was high and these analytes were not detected in the associated samples, the results were reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals
Method(s) 7471B: The matrix spike (MS) recovery of sample Wb4-5, S2C 82417 (180-69679-3) was above the control limits for mercury. The RPD between the spikes and the recoveries of the matrix spike duplicate (MSD) and laboratory control sample (LCS) were within the control limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Definitions/Glossary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-69679-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc. TestAmerica Job ID: 180-69679-1
Project/Site: Former Sperry Remington Site - North IRM

Laboratory: TestAmerica Pittsburgh

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	11182	03-31-18

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
2540G		Solid	Percent Moisture
2540G		Solid	Percent Solids
8270D LL	3541	Solid	1,4-Dioxane

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-69679-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-69679-1	Wb4-5, S2A 82417	Solid	08/24/17 12:50	08/25/17 07:55
180-69679-2	Wb4-5, S2B 82417	Solid	08/24/17 12:55	08/25/17 07:55
180-69679-3	Wb4-5, S2C 82417	Solid	08/24/17 13:00	08/25/17 07:55
180-69679-4	Wb5-6, S2A 82417	Solid	08/24/17 13:10	08/25/17 07:55
180-69679-5	Wb5-6, S2B 82417	Solid	08/24/17 13:15	08/25/17 07:55
180-69679-6	Wb5-6, S2C 82417	Solid	08/24/17 13:20	08/25/17 07:55
180-69679-7	DUP 22	Solid	08/24/17 00:00	08/25/17 07:55
180-69679-8	DUP 23	Solid	08/24/17 00:00	08/25/17 07:55

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-69679-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL PIT
8270D LL	Semivolatile Organic Compounds by GC/MS - Low Level	SW846	TAL PIT
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL PIT
6010C	Metals (ICP)	SW846	TAL PIT
7471B	Mercury (CVAA)	SW846	TAL PIT
2540G	SM 2540G	SM22	TAL PIT
9014	Cyanide	SW846	TAL PIT

Protocol References:

SM22 = SM22

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-69679-1

Client Sample ID: Wb4-5, S2A 82417
Date Collected: 08/24/17 12:50
Date Received: 08/25/17 07:55

Lab Sample ID: 180-69679-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			221223	08/25/17 14:04	CMR	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: Wb4-5, S2A 82417
Date Collected: 08/24/17 12:50
Date Received: 08/25/17 07:55

Lab Sample ID: 180-69679-1
Matrix: Solid
Percent Solids: 92.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.0878 g	5 mL	221143	08/25/17 13:04	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	221134	08/25/17 17:17	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: Wb4-5, S2B 82417
Date Collected: 08/24/17 12:55
Date Received: 08/25/17 07:55

Lab Sample ID: 180-69679-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			221223	08/25/17 14:04	CMR	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: Wb4-5, S2B 82417
Date Collected: 08/24/17 12:55
Date Received: 08/25/17 07:55

Lab Sample ID: 180-69679-2
Matrix: Solid
Percent Solids: 87.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.3643 g	5 mL	221143	08/25/17 13:04	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	221134	08/25/17 16:54	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: Wb4-5, S2C 82417
Date Collected: 08/24/17 13:00
Date Received: 08/25/17 07:55

Lab Sample ID: 180-69679-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			221223	08/25/17 14:04	CMR	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: Wb4-5, S2C 82417
Date Collected: 08/24/17 13:00
Date Received: 08/25/17 07:55

Lab Sample ID: 180-69679-3
Matrix: Solid
Percent Solids: 91.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.3 g	0.5 mL	221247	08/26/17 03:36	BAP	TAL PIT

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-69679-1

Client Sample ID: Wb4-5, S2C 82417

Lab Sample ID: 180-69679-3
Date Collected: 08/24/17 13:00
Matrix: Solid
Date Received: 08/25/17 07:55
Percent Solids: 91.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8270D LL		1	1 mL	1 mL	221263	08/26/17 17:40	VVP	TAL PIT
	Instrument ID: CH732									
Total/NA	Prep	3541			15.3 g	20.0 mL	221249	08/26/17 03:41	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	221273	08/26/17 12:46	DFE	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	221274	08/26/17 12:47	DFE	TAL PIT
Total/NA	Analysis	8082A		1			221316	08/28/17 17:38	JMO	TAL PIT
	Instrument ID: CHGC10									
Total/NA	Prep	3050B			1.05 g	100 mL	221352	08/28/17 10:38	SES	TAL PIT
Total/NA	Analysis	6010C		1			221626	08/30/17 10:13	RJR	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.59 g	100 mL	221438	08/29/17 09:03	ANA	TAL PIT
Total/NA	Analysis	7471B		1			221625	08/30/17 07:17	ANA	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.03 g	50 mL	221468	08/29/17 14:20	JAS	TAL PIT
Total/NA	Analysis	9014		1			221627	08/29/17 17:22	JAS	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: Wb5-6, S2A 82417

Lab Sample ID: 180-69679-4
Date Collected: 08/24/17 13:10
Matrix: Solid
Date Received: 08/25/17 07:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			221223	08/25/17 14:04	CMR	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: Wb5-6, S2A 82417

Lab Sample ID: 180-69679-4
Date Collected: 08/24/17 13:10
Matrix: Solid
Date Received: 08/25/17 07:55
Percent Solids: 69.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.5484 g	5 mL	221143	08/25/17 13:04	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	221134	08/25/17 16:31	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: Wb5-6, S2B 82417

Lab Sample ID: 180-69679-5
Date Collected: 08/24/17 13:15
Matrix: Solid
Date Received: 08/25/17 07:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			221223	08/25/17 14:04	CMR	TAL PIT
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-69679-1

Client Sample ID: Wb5-6, S2B 82417

Lab Sample ID: 180-69679-5
Date Collected: 08/24/17 13:15
Matrix: Solid
Date Received: 08/25/17 07:55
Percent Solids: 94.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.0774 g	5 mL	221143	08/25/17 13:04	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	221134	08/25/17 16:09	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: Wb5-6, S2C 82417

Lab Sample ID: 180-69679-6
Date Collected: 08/24/17 13:20
Matrix: Solid
Date Received: 08/25/17 07:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			221223	08/25/17 14:04	CMR	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: Wb5-6, S2C 82417

Lab Sample ID: 180-69679-6
Date Collected: 08/24/17 13:20
Matrix: Solid
Date Received: 08/25/17 07:55
Percent Solids: 93.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	0.5 mL	221247	08/26/17 03:36	BAP	TAL PIT
Total/NA	Analysis	8270D LL		1	1 mL	1 mL	221263	08/26/17 18:07	VVP	TAL PIT
	Instrument ID: CH732									
Total/NA	Prep	3541			15.1 g	20.0 mL	221249	08/26/17 03:41	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	221273	08/26/17 12:46	DFE	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	221274	08/26/17 12:47	DFE	TAL PIT
Total/NA	Analysis	8082A		1			221316	08/28/17 17:57	JMO	TAL PIT
	Instrument ID: CHGC10									
Total/NA	Prep	3050B			1.05 g	100 mL	221352	08/28/17 10:38	SES	TAL PIT
Total/NA	Analysis	6010C		1			221626	08/30/17 10:28	RJR	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.64 g	100 mL	221438	08/29/17 09:03	ANA	TAL PIT
Total/NA	Analysis	7471B		1			221625	08/30/17 07:23	ANA	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.09 g	50 mL	221468	08/29/17 14:20	JAS	TAL PIT
Total/NA	Analysis	9014		1			221627	08/29/17 17:24	JAS	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: DUP 22

Lab Sample ID: 180-69679-7
Date Collected: 08/24/17 00:00
Matrix: Solid
Date Received: 08/25/17 07:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			221223	08/25/17 14:04	CMR	TAL PIT
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-69679-1

Client Sample ID: DUP 22

Date Collected: 08/24/17 00:00
Date Received: 08/25/17 07:55

Lab Sample ID: 180-69679-7

Matrix: Solid
Percent Solids: 90.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.4 g	0.5 mL	221247	08/26/17 03:36	BAP	TAL PIT
Total/NA	Analysis	8270D LL		1	1 mL	1 mL	221263	08/26/17 18:34	VVP	TAL PIT
	Instrument ID: CH732									
Total/NA	Prep	3541			15.5 g	20.0 mL	221249	08/26/17 03:41	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	221273	08/26/17 12:46	DFE	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	221274	08/26/17 12:47	DFE	TAL PIT
Total/NA	Analysis	8082A		1			221316	08/28/17 18:16	JMO	TAL PIT
	Instrument ID: CHGC10									
Total/NA	Prep	3050B			0.97 g	100 mL	221352	08/28/17 10:38	SES	TAL PIT
Total/NA	Analysis	6010C		1			221626	08/30/17 10:34	RJR	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.63 g	100 mL	221438	08/29/17 09:03	ANA	TAL PIT
Total/NA	Analysis	7471B		1			221625	08/30/17 07:25	ANA	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.10 g	50 mL	221468	08/29/17 14:20	JAS	TAL PIT
Total/NA	Analysis	9014		1			221627	08/29/17 17:25	JAS	TAL PIT
	Instrument ID: SEAL2									

Client Sample ID: DUP 23

Date Collected: 08/24/17 00:00
Date Received: 08/25/17 07:55

Lab Sample ID: 180-69679-8

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			221223	08/25/17 14:04	CMR	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: DUP 23

Date Collected: 08/24/17 00:00
Date Received: 08/25/17 07:55

Lab Sample ID: 180-69679-8

Matrix: Solid
Percent Solids: 68.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.1623 g	5 mL	221143	08/25/17 13:04	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	221134	08/25/17 15:46	KLG	TAL PIT
	Instrument ID: CHHP3									

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-69679-1

Analyst References:

Lab: TAL PIT

Batch Type: Cleanup

DFE = David Eppinger

Batch Type: Prep

ANA = Alexis Anderson

BAP = Brian Pino

JAS = Joshua Schmidt

KLG = Kathy Gordon

SES = Samantha Strauser

Batch Type: Analysis

ANA = Alexis Anderson

CMR = Carl Reagle

JAS = Joshua Schmidt

JMO = John Oravec

KLG = Kathy Gordon

RJR = Ron Rosenbaum

VVP = Vincent Piccolino

Client Sample ID: Wb4-5, S2A 82417

Lab Sample ID: 180-69679-1
Date Collected: 08/24/17 12:50
Matrix: Solid
Date Received: 08/25/17 07:55
Percent Solids: 92.3

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.027	0.0042	mg/Kg	☼	08/25/17 13:04	08/25/17 17:17	1
Benzene	ND		0.0066	0.0026	mg/Kg	☼	08/25/17 13:04	08/25/17 17:17	1
2-Butanone (MEK)	ND		0.0066	0.0038	mg/Kg	☼	08/25/17 13:04	08/25/17 17:17	1
Carbon tetrachloride	ND		0.0066	0.0044	mg/Kg	☼	08/25/17 13:04	08/25/17 17:17	1
Chlorobenzene	ND		0.0066	0.0021	mg/Kg	☼	08/25/17 13:04	08/25/17 17:17	1
Chloroform	ND		0.0066	0.0028	mg/Kg	☼	08/25/17 13:04	08/25/17 17:17	1
cis-1,2-Dichloroethene	ND		0.0066	0.0021	mg/Kg	☼	08/25/17 13:04	08/25/17 17:17	1
1,2-Dichlorobenzene	ND		0.0066	0.0053	mg/Kg	☼	08/25/17 13:04	08/25/17 17:17	1
1,3-Dichlorobenzene	ND		0.0066	0.0021	mg/Kg	☼	08/25/17 13:04	08/25/17 17:17	1
1,4-Dichlorobenzene	ND		0.0066	0.0014	mg/Kg	☼	08/25/17 13:04	08/25/17 17:17	1
1,1-Dichloroethane	ND		0.0066	0.0024	mg/Kg	☼	08/25/17 13:04	08/25/17 17:17	1
1,2-Dichloroethane	ND		0.0066	0.0019	mg/Kg	☼	08/25/17 13:04	08/25/17 17:17	1
1,1-Dichloroethene	ND		0.0066	0.0038	mg/Kg	☼	08/25/17 13:04	08/25/17 17:17	1
Ethylbenzene	ND		0.0066	0.0029	mg/Kg	☼	08/25/17 13:04	08/25/17 17:17	1
Methylene Chloride	ND		0.0066	0.0031	mg/Kg	☼	08/25/17 13:04	08/25/17 17:17	1
Methyl tert-butyl ether	ND		0.0066	0.0049	mg/Kg	☼	08/25/17 13:04	08/25/17 17:17	1
n-Butylbenzene	ND		0.0066	0.0050	mg/Kg	☼	08/25/17 13:04	08/25/17 17:17	1
N-Propylbenzene	ND		0.0066	0.0028	mg/Kg	☼	08/25/17 13:04	08/25/17 17:17	1
sec-Butylbenzene	ND		0.0066	0.0032	mg/Kg	☼	08/25/17 13:04	08/25/17 17:17	1
tert-Butylbenzene	ND		0.0066	0.0024	mg/Kg	☼	08/25/17 13:04	08/25/17 17:17	1
Tetrachloroethene	ND		0.0066	0.0027	mg/Kg	☼	08/25/17 13:04	08/25/17 17:17	1
Toluene	ND		0.0066	0.0022	mg/Kg	☼	08/25/17 13:04	08/25/17 17:17	1
trans-1,2-Dichloroethene	ND		0.0066	0.0034	mg/Kg	☼	08/25/17 13:04	08/25/17 17:17	1
1,1,1-Trichloroethane	ND		0.0066	0.0033	mg/Kg	☼	08/25/17 13:04	08/25/17 17:17	1
Trichloroethene	ND		0.0066	0.0020	mg/Kg	☼	08/25/17 13:04	08/25/17 17:17	1
1,2,4-Trimethylbenzene	ND		0.0066	0.0018	mg/Kg	☼	08/25/17 13:04	08/25/17 17:17	1
1,3,5-Trimethylbenzene	ND		0.0066	0.0023	mg/Kg	☼	08/25/17 13:04	08/25/17 17:17	1
Vinyl chloride	ND		0.0066	0.0049	mg/Kg	☼	08/25/17 13:04	08/25/17 17:17	1
Xylenes, Total	ND		0.013	0.0057	mg/Kg	☼	08/25/17 13:04	08/25/17 17:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*73 - 113*	*08/25/17 13:04*	*08/25/17 17:17*	*1*
Dibromofluoromethane (Surr)	*92*		*73 - 113*	*08/25/17 13:04*	*08/25/17 17:17*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*63 - 112*	*08/25/17 13:04*	*08/25/17 17:17*	*1*
Toluene-d8 (Surr)	*109*		*90 - 130*	*08/25/17 13:04*	*08/25/17 17:17*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**7.7**		0.1	0.1	%			08/25/17 14:04	1
Percent Solids	**92.3**		0.1	0.1	%			08/25/17 14:04	1

Client Sample ID: Wb4-5, S2B 82417

Lab Sample ID: 180-69679-2
Date Collected: 08/24/17 12:55
Matrix: Solid
Date Received: 08/25/17 07:55
Percent Solids: 87.3

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.018	0.0028	mg/Kg	☼	08/25/17 13:04	08/25/17 16:54	1
Benzene	ND		0.0045	0.0018	mg/Kg	☼	08/25/17 13:04	08/25/17 16:54	1
2-Butanone (MEK)	ND		0.0045	0.0026	mg/Kg	☼	08/25/17 13:04	08/25/17 16:54	1

Client Sample ID: Wb4-5, S2B 82417 — Lab Sample ID: 180-69679-2

Date Collected: 08/24/17 12:55 — **Matrix: Solid**
Date Received: 08/25/17 07:55 — **Percent Solids: 87.3**

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	ND		0.0045	0.0030	mg/Kg	☼	08/25/17 13:04	08/25/17 16:54	1
Chlorobenzene	ND		0.0045	0.0014	mg/Kg	☼	08/25/17 13:04	08/25/17 16:54	1
Chloroform	ND		0.0045	0.0019	mg/Kg	☼	08/25/17 13:04	08/25/17 16:54	1
cis-1,2-Dichloroethene	ND		0.0045	0.0014	mg/Kg	☼	08/25/17 13:04	08/25/17 16:54	1
1,2-Dichlorobenzene	ND		0.0045	0.0036	mg/Kg	☼	08/25/17 13:04	08/25/17 16:54	1
1,3-Dichlorobenzene	ND		0.0045	0.0014	mg/Kg	☼	08/25/17 13:04	08/25/17 16:54	1
1,4-Dichlorobenzene	ND		0.0045	0.00092	mg/Kg	☼	08/25/17 13:04	08/25/17 16:54	1
1,1-Dichloroethane	ND		0.0045	0.0016	mg/Kg	☼	08/25/17 13:04	08/25/17 16:54	1
1,2-Dichloroethane	ND		0.0045	0.0013	mg/Kg	☼	08/25/17 13:04	08/25/17 16:54	1
1,1-Dichloroethene	ND		0.0045	0.0026	mg/Kg	☼	08/25/17 13:04	08/25/17 16:54	1
Ethylbenzene	ND		0.0045	0.0019	mg/Kg	☼	08/25/17 13:04	08/25/17 16:54	1
Methylene Chloride	ND		0.0045	0.0021	mg/Kg	☼	08/25/17 13:04	08/25/17 16:54	1
Methyl tert-butyl ether	ND		0.0045	0.0033	mg/Kg	☼	08/25/17 13:04	08/25/17 16:54	1
n-Butylbenzene	ND		0.0045	0.0034	mg/Kg	☼	08/25/17 13:04	08/25/17 16:54	1
N-Propylbenzene	ND		0.0045	0.0019	mg/Kg	☼	08/25/17 13:04	08/25/17 16:54	1
sec-Butylbenzene	ND		0.0045	0.0022	mg/Kg	☼	08/25/17 13:04	08/25/17 16:54	1
tert-Butylbenzene	ND		0.0045	0.0016	mg/Kg	☼	08/25/17 13:04	08/25/17 16:54	1
Tetrachloroethene	ND		0.0045	0.0018	mg/Kg	☼	08/25/17 13:04	08/25/17 16:54	1
Toluene	ND		0.0045	0.0015	mg/Kg	☼	08/25/17 13:04	08/25/17 16:54	1
trans-1,2-Dichloroethene	ND		0.0045	0.0023	mg/Kg	☼	08/25/17 13:04	08/25/17 16:54	1
1,1,1-Trichloroethane	ND		0.0045	0.0023	mg/Kg	☼	08/25/17 13:04	08/25/17 16:54	1
Trichloroethene	ND		0.0045	0.0014	mg/Kg	☼	08/25/17 13:04	08/25/17 16:54	1
1,2,4-Trimethylbenzene	ND		0.0045	0.0012	mg/Kg	☼	08/25/17 13:04	08/25/17 16:54	1
1,3,5-Trimethylbenzene	ND		0.0045	0.0015	mg/Kg	☼	08/25/17 13:04	08/25/17 16:54	1
Vinyl chloride	ND		0.0045	0.0033	mg/Kg	☼	08/25/17 13:04	08/25/17 16:54	1
Xylenes, Total	ND		0.0090	0.0039	mg/Kg	☼	08/25/17 13:04	08/25/17 16:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*73 - 113*	*08/25/17 13:04*	*08/25/17 16:54*	*1*
Dibromofluoromethane (Surr)	*93*		*73 - 113*	*08/25/17 13:04*	*08/25/17 16:54*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*63 - 112*	*08/25/17 13:04*	*08/25/17 16:54*	*1*
Toluene-d8 (Surr)	*104*		*90 - 130*	*08/25/17 13:04*	*08/25/17 16:54*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**12.7**		0.1	0.1	%			08/25/17 14:04	1
Percent Solids	**87.3**		0.1	0.1	%			08/25/17 14:04	1

Client Sample ID: Wb4-5, S2C 82417 — Lab Sample ID: 180-69679-3

Date Collected: 08/24/17 13:00 — **Matrix: Solid**
Date Received: 08/25/17 07:55 — **Percent Solids: 91.8**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		7.2	2.4	ug/Kg	☼	08/26/17 03:36	08/26/17 17:40	1
Acenaphthylene	**3.2**	**J**	7.2	2.4	ug/Kg	☼	08/26/17 03:36	08/26/17 17:40	1
Anthracene	**2.6**	**J**	7.2	2.6	ug/Kg	☼	08/26/17 03:36	08/26/17 17:40	1
Benzo[a]anthracene	**8.2**		7.2	2.8	ug/Kg	☼	08/26/17 03:36	08/26/17 17:40	1
Benzo[a]pyrene	**9.0**		7.2	2.9	ug/Kg	☼	08/26/17 03:36	08/26/17 17:40	1
Benzo[b]fluoranthene	**13**		7.2	3.1	ug/Kg	☼	08/26/17 03:36	08/26/17 17:40	1

Client Sample ID: Wb4-5, S2C 82417 **Lab Sample ID: 180-69679-3**
Date Collected: 08/24/17 13:00 **Matrix: Solid**
Date Received: 08/25/17 07:55 **Percent Solids: 91.8**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	**11**		7.2	3.1	ug/Kg	☼	08/26/17 03:36	08/26/17 17:40	1
Benzo[k]fluoranthene	**4.6**	**J**	7.2	2.5	ug/Kg	☼	08/26/17 03:36	08/26/17 17:40	1
Chrysene	**11**		7.2	2.8	ug/Kg	☼	08/26/17 03:36	08/26/17 17:40	1
Dibenz(a,h)anthracene	ND		7.2	2.9	ug/Kg	☼	08/26/17 03:36	08/26/17 17:40	1
Dibenzofuran	ND		35	2.8	ug/Kg	☼	08/26/17 03:36	08/26/17 17:40	1
2,4-Dinitrotoluene	ND		35	4.7	ug/Kg	☼	08/26/17 03:36	08/26/17 17:40	1
1,4-Dioxane	ND		71	5.4	ug/Kg	☼	08/26/17 03:36	08/26/17 17:40	1
Fluoranthene	**15**		7.2	2.8	ug/Kg	☼	08/26/17 03:36	08/26/17 17:40	1
Fluorene	ND		7.2	2.5	ug/Kg	☼	08/26/17 03:36	08/26/17 17:40	1
Hexachlorobenzene	ND		7.2	2.9	ug/Kg	☼	08/26/17 03:36	08/26/17 17:40	1
Hexachlorobutadiene	ND		7.2	2.2	ug/Kg	☼	08/26/17 03:36	08/26/17 17:40	1
Hexachloroethane	ND		35	2.6	ug/Kg	☼	08/26/17 03:36	08/26/17 17:40	1
Indeno[1,2,3-cd]pyrene	**8.6**		7.2	2.8	ug/Kg	☼	08/26/17 03:36	08/26/17 17:40	1
2-Methylphenol	ND		35	3.1	ug/Kg	☼	08/26/17 03:36	08/26/17 17:40	1
Methylphenol, 3 & 4	**9.7**	**J**	35	3.2	ug/Kg	☼	08/26/17 03:36	08/26/17 17:40	1
Naphthalene	ND		7.2	2.6	ug/Kg	☼	08/26/17 03:36	08/26/17 17:40	1
Nitrobenzene	ND		71	2.7	ug/Kg	☼	08/26/17 03:36	08/26/17 17:40	1
Pentachlorophenol	ND		180	67	ug/Kg	☼	08/26/17 03:36	08/26/17 17:40	1
Phenanthrene	**6.3**	**J**	7.2	3.0	ug/Kg	☼	08/26/17 03:36	08/26/17 17:40	1
Phenol	ND		35	4.8	ug/Kg	☼	08/26/17 03:36	08/26/17 17:40	1
Pyrene	**13**		7.2	3.2	ug/Kg	☼	08/26/17 03:36	08/26/17 17:40	1
Pyridine	ND		35	3.4	ug/Kg	☼	08/26/17 03:36	08/26/17 17:40	1
2,4,5-Trichlorophenol	ND		35	3.4	ug/Kg	☼	08/26/17 03:36	08/26/17 17:40	1
2,4,6-Trichlorophenol	ND		35	3.1	ug/Kg	☼	08/26/17 03:36	08/26/17 17:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*67*		*34 - 100*	*08/26/17 03:36*	*08/26/17 17:40*	*1*
2-Fluorophenol (Surr)	*64*		*27 - 100*	*08/26/17 03:36*	*08/26/17 17:40*	*1*
Nitrobenzene-d5 (Surr)	*69*		*33 - 100*	*08/26/17 03:36*	*08/26/17 17:40*	*1*
Phenol-d5 (Surr)	*62*		*27 - 100*	*08/26/17 03:36*	*08/26/17 17:40*	*1*
Terphenyl-d14 (Surr)	*69*		*30 - 100*	*08/26/17 03:36*	*08/26/17 17:40*	*1*
2,4,6-Tribromophenol (Surr)	*78*		*20 - 107*	*08/26/17 03:36*	*08/26/17 17:40*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.018	0.0094	mg/Kg	☼	08/26/17 03:41	08/28/17 17:38	1
PCB-1221	ND		0.018	0.0092	mg/Kg	☼	08/26/17 03:41	08/28/17 17:38	1
PCB-1232	ND		0.018	0.0070	mg/Kg	☼	08/26/17 03:41	08/28/17 17:38	1
PCB-1242	ND		0.018	0.014	mg/Kg	☼	08/26/17 03:41	08/28/17 17:38	1
PCB-1248	**0.12**		0.018	0.0085	mg/Kg	☼	08/26/17 03:41	08/28/17 17:38	1
PCB-1254	**0.032**		0.018	0.0078	mg/Kg	☼	08/26/17 03:41	08/28/17 17:38	1
PCB-1260	ND		0.018	0.012	mg/Kg	☼	08/26/17 03:41	08/28/17 17:38	1
PCB-1262	ND		0.018	0.013	mg/Kg	☼	08/26/17 03:41	08/28/17 17:38	1
PCB-1268	ND		0.018	0.0054	mg/Kg	☼	08/26/17 03:41	08/28/17 17:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*71*		*33 - 137*	*08/26/17 03:41*	*08/28/17 17:38*	*1*
DCB Decachlorobiphenyl (Surr)	*68*		*33 - 137*	*08/26/17 03:41*	*08/28/17 17:38*	*1*
Tetrachloro-m-xylene (Surr)	*78*		*44 - 114*	*08/26/17 03:41*	*08/28/17 17:38*	*1*
Tetrachloro-m-xylene (Surr)	*77*		*44 - 114*	*08/26/17 03:41*	*08/28/17 17:38*	*1*

Client Sample ID: Wb4-5, S2C 82417 — Lab Sample ID: 180-69679-3

Date Collected: 08/24/17 13:00 — **Matrix: Solid**
Date Received: 08/25/17 07:55 — **Percent Solids: 91.8**

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.4		1.0	0.46	mg/Kg	☼	08/28/17 10:38	08/30/17 10:13	1
Barium	52		21	5.6	mg/Kg	☼	08/28/17 10:38	08/30/17 10:13	1
Beryllium	0.28	J	0.41	0.11	mg/Kg	☼	08/28/17 10:38	08/30/17 10:13	1
Cadmium	0.16	J	0.52	0.12	mg/Kg	☼	08/28/17 10:38	08/30/17 10:13	1
Chromium	8.2		0.52	0.13	mg/Kg	☼	08/28/17 10:38	08/30/17 10:13	1
Copper	19		2.6	0.80	mg/Kg	☼	08/28/17 10:38	08/30/17 10:13	1
Lead	8.3		1.0	0.34	mg/Kg	☼	08/28/17 10:38	08/30/17 10:13	1
Manganese	410		1.6	0.42	mg/Kg	☼	08/28/17 10:38	08/30/17 10:13	1
Nickel	16		4.1	0.93	mg/Kg	☼	08/28/17 10:38	08/30/17 10:13	1
Selenium	0.86	J	1.0	0.41	mg/Kg	☼	08/28/17 10:38	08/30/17 10:13	1
Silver	ND		0.52	0.17	mg/Kg	☼	08/28/17 10:38	08/30/17 10:13	1
Zinc	72		2.1	1.1	mg/Kg	☼	08/28/17 10:38	08/30/17 10:13	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.016	J F1	0.037	0.0082	mg/Kg	☼	08/29/17 09:03	08/30/17 07:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	8.2		0.1	0.1	%			08/25/17 14:04	1
Percent Solids	91.8		0.1	0.1	%			08/25/17 14:04	1
Cyanide, Total	ND		0.53	0.16	mg/Kg	☼	08/29/17 14:20	08/29/17 17:22	1

Client Sample ID: Wb5-6, S2A 82417 — Lab Sample ID: 180-69679-4

Date Collected: 08/24/17 13:10 — **Matrix: Solid**
Date Received: 08/25/17 07:55 — **Percent Solids: 69.4**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.026	0.0041	mg/Kg	☼	08/25/17 13:04	08/25/17 16:31	1
Benzene	ND		0.0065	0.0025	mg/Kg	☼	08/25/17 13:04	08/25/17 16:31	1
2-Butanone (MEK)	ND		0.0065	0.0038	mg/Kg	☼	08/25/17 13:04	08/25/17 16:31	1
Carbon tetrachloride	ND		0.0065	0.0043	mg/Kg	☼	08/25/17 13:04	08/25/17 16:31	1
Chlorobenzene	ND		0.0065	0.0020	mg/Kg	☼	08/25/17 13:04	08/25/17 16:31	1
Chloroform	ND		0.0065	0.0027	mg/Kg	☼	08/25/17 13:04	08/25/17 16:31	1
cis-1,2-Dichloroethene	ND		0.0065	0.0020	mg/Kg	☼	08/25/17 13:04	08/25/17 16:31	1
1,2-Dichlorobenzene	ND		0.0065	0.0052	mg/Kg	☼	08/25/17 13:04	08/25/17 16:31	1
1,3-Dichlorobenzene	ND		0.0065	0.0021	mg/Kg	☼	08/25/17 13:04	08/25/17 16:31	1
1,4-Dichlorobenzene	ND		0.0065	0.0013	mg/Kg	☼	08/25/17 13:04	08/25/17 16:31	1
1,1-Dichloroethane	ND		0.0065	0.0024	mg/Kg	☼	08/25/17 13:04	08/25/17 16:31	1
1,2-Dichloroethane	ND		0.0065	0.0019	mg/Kg	☼	08/25/17 13:04	08/25/17 16:31	1
1,1-Dichloroethene	ND		0.0065	0.0037	mg/Kg	☼	08/25/17 13:04	08/25/17 16:31	1
Ethylbenzene	ND		0.0065	0.0028	mg/Kg	☼	08/25/17 13:04	08/25/17 16:31	1
Methylene Chloride	ND		0.0065	0.0031	mg/Kg	☼	08/25/17 13:04	08/25/17 16:31	1
Methyl tert-butyl ether	ND		0.0065	0.0048	mg/Kg	☼	08/25/17 13:04	08/25/17 16:31	1
n-Butylbenzene	ND		0.0065	0.0049	mg/Kg	☼	08/25/17 13:04	08/25/17 16:31	1
N-Propylbenzene	ND		0.0065	0.0027	mg/Kg	☼	08/25/17 13:04	08/25/17 16:31	1
sec-Butylbenzene	ND		0.0065	0.0032	mg/Kg	☼	08/25/17 13:04	08/25/17 16:31	1
tert-Butylbenzene	ND		0.0065	0.0024	mg/Kg	☼	08/25/17 13:04	08/25/17 16:31	1
Tetrachloroethene	ND		0.0065	0.0026	mg/Kg	☼	08/25/17 13:04	08/25/17 16:31	1

Client Sample ID: Wb5-6, S2A 82417

Lab Sample ID: 180-69679-4
Date Collected: 08/24/17 13:10
Matrix: Solid
Date Received: 08/25/17 07:55
Percent Solids: 69.4

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		0.0065	0.0022	mg/Kg	☼	08/25/17 13:04	08/25/17 16:31	1
trans-1,2-Dichloroethene	ND		0.0065	0.0033	mg/Kg	☼	08/25/17 13:04	08/25/17 16:31	1
1,1,1-Trichloroethane	ND		0.0065	0.0033	mg/Kg	☼	08/25/17 13:04	08/25/17 16:31	1
Trichloroethene	ND		0.0065	0.0020	mg/Kg	☼	08/25/17 13:04	08/25/17 16:31	1
1,2,4-Trimethylbenzene	ND		0.0065	0.0018	mg/Kg	☼	08/25/17 13:04	08/25/17 16:31	1
1,3,5-Trimethylbenzene	ND		0.0065	0.0022	mg/Kg	☼	08/25/17 13:04	08/25/17 16:31	1
Vinyl chloride	ND		0.0065	0.0048	mg/Kg	☼	08/25/17 13:04	08/25/17 16:31	1
Xylenes, Total	ND		0.013	0.0056	mg/Kg	☼	08/25/17 13:04	08/25/17 16:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*73 - 113*	*08/25/17 13:04*	*08/25/17 16:31*	*1*
Dibromofluoromethane (Surr)	*91*		*73 - 113*	*08/25/17 13:04*	*08/25/17 16:31*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*63 - 112*	*08/25/17 13:04*	*08/25/17 16:31*	*1*
Toluene-d8 (Surr)	*106*		*90 - 130*	*08/25/17 13:04*	*08/25/17 16:31*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**30.6**		0.1	0.1	%			08/25/17 14:04	1
Percent Solids	**69.4**		0.1	0.1	%			08/25/17 14:04	1

Client Sample ID: Wb5-6, S2B 82417

Lab Sample ID: 180-69679-5
Date Collected: 08/24/17 13:15
Matrix: Solid
Date Received: 08/25/17 07:55
Percent Solids: 94.8

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**0.0028**	**J**	0.017	0.0027	mg/Kg	☼	08/25/17 13:04	08/25/17 16:09	1
Benzene	ND		0.0043	0.0017	mg/Kg	☼	08/25/17 13:04	08/25/17 16:09	1
2-Butanone (MEK)	ND		0.0043	0.0025	mg/Kg	☼	08/25/17 13:04	08/25/17 16:09	1
Carbon tetrachloride	ND		0.0043	0.0029	mg/Kg	☼	08/25/17 13:04	08/25/17 16:09	1
Chlorobenzene	ND		0.0043	0.0014	mg/Kg	☼	08/25/17 13:04	08/25/17 16:09	1
Chloroform	ND		0.0043	0.0018	mg/Kg	☼	08/25/17 13:04	08/25/17 16:09	1
cis-1,2-Dichloroethene	ND		0.0043	0.0014	mg/Kg	☼	08/25/17 13:04	08/25/17 16:09	1
1,2-Dichlorobenzene	ND		0.0043	0.0035	mg/Kg	☼	08/25/17 13:04	08/25/17 16:09	1
1,3-Dichlorobenzene	ND		0.0043	0.0014	mg/Kg	☼	08/25/17 13:04	08/25/17 16:09	1
1,4-Dichlorobenzene	ND		0.0043	0.00089	mg/Kg	☼	08/25/17 13:04	08/25/17 16:09	1
1,1-Dichloroethane	ND		0.0043	0.0016	mg/Kg	☼	08/25/17 13:04	08/25/17 16:09	1
1,2-Dichloroethane	ND		0.0043	0.0013	mg/Kg	☼	08/25/17 13:04	08/25/17 16:09	1
1,1-Dichloroethene	ND		0.0043	0.0025	mg/Kg	☼	08/25/17 13:04	08/25/17 16:09	1
Ethylbenzene	ND		0.0043	0.0019	mg/Kg	☼	08/25/17 13:04	08/25/17 16:09	1
Methylene Chloride	ND		0.0043	0.0020	mg/Kg	☼	08/25/17 13:04	08/25/17 16:09	1
Methyl tert-butyl ether	ND		0.0043	0.0032	mg/Kg	☼	08/25/17 13:04	08/25/17 16:09	1
n-Butylbenzene	ND		0.0043	0.0033	mg/Kg	☼	08/25/17 13:04	08/25/17 16:09	1
N-Propylbenzene	ND		0.0043	0.0018	mg/Kg	☼	08/25/17 13:04	08/25/17 16:09	1
sec-Butylbenzene	ND		0.0043	0.0021	mg/Kg	☼	08/25/17 13:04	08/25/17 16:09	1
tert-Butylbenzene	ND		0.0043	0.0016	mg/Kg	☼	08/25/17 13:04	08/25/17 16:09	1
Tetrachloroethene	ND		0.0043	0.0017	mg/Kg	☼	08/25/17 13:04	08/25/17 16:09	1
Toluene	ND		0.0043	0.0015	mg/Kg	☼	08/25/17 13:04	08/25/17 16:09	1
trans-1,2-Dichloroethene	ND		0.0043	0.0022	mg/Kg	☼	08/25/17 13:04	08/25/17 16:09	1
1,1,1-Trichloroethane	ND		0.0043	0.0022	mg/Kg	☼	08/25/17 13:04	08/25/17 16:09	1

Client Sample ID: Wb5-6, S2B 82417

Lab Sample ID: 180-69679-5
Date Collected: 08/24/17 13:15
Matrix: Solid
Date Received: 08/25/17 07:55
Percent Solids: 94.8

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	ND		0.0043	0.0013	mg/Kg	☼	08/25/17 13:04	08/25/17 16:09	1
1,2,4-Trimethylbenzene	ND		0.0043	0.0012	mg/Kg	☼	08/25/17 13:04	08/25/17 16:09	1
1,3,5-Trimethylbenzene	ND		0.0043	0.0015	mg/Kg	☼	08/25/17 13:04	08/25/17 16:09	1
Vinyl chloride	ND		0.0043	0.0032	mg/Kg	☼	08/25/17 13:04	08/25/17 16:09	1
Xylenes, Total	ND		0.0087	0.0037	mg/Kg	☼	08/25/17 13:04	08/25/17 16:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*73 - 113*	*08/25/17 13:04*	*08/25/17 16:09*	*1*
Dibromofluoromethane (Surr)	*91*		*73 - 113*	*08/25/17 13:04*	*08/25/17 16:09*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*63 - 112*	*08/25/17 13:04*	*08/25/17 16:09*	*1*
Toluene-d8 (Surr)	*104*		*90 - 130*	*08/25/17 13:04*	*08/25/17 16:09*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**5.2**		0.1	0.1	%			08/25/17 14:04	1
Percent Solids	**94.8**		0.1	0.1	%			08/25/17 14:04	1

Client Sample ID: Wb5-6, S2C 82417

Lab Sample ID: 180-69679-6
Date Collected: 08/24/17 13:20
Matrix: Solid
Date Received: 08/25/17 07:55
Percent Solids: 93.5

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		7.2	2.4	ug/Kg	☼	08/26/17 03:36	08/26/17 18:07	1
Acenaphthylene	ND		7.2	2.4	ug/Kg	☼	08/26/17 03:36	08/26/17 18:07	1
Anthracene	ND		7.2	2.6	ug/Kg	☼	08/26/17 03:36	08/26/17 18:07	1
Benzo[a]anthracene	**5.8**	**J**	7.2	2.8	ug/Kg	☼	08/26/17 03:36	08/26/17 18:07	1
Benzo[a]pyrene	**5.9**	**J**	7.2	3.0	ug/Kg	☼	08/26/17 03:36	08/26/17 18:07	1
Benzo[b]fluoranthene	**8.9**		7.2	3.1	ug/Kg	☼	08/26/17 03:36	08/26/17 18:07	1
Benzo[g,h,i]perylene	**7.1**	**J**	7.2	3.1	ug/Kg	☼	08/26/17 03:36	08/26/17 18:07	1
Benzo[k]fluoranthene	**3.2**	**J**	7.2	2.5	ug/Kg	☼	08/26/17 03:36	08/26/17 18:07	1
Chrysene	**8.3**		7.2	2.8	ug/Kg	☼	08/26/17 03:36	08/26/17 18:07	1
Dibenz(a,h)anthracene	ND		7.2	3.0	ug/Kg	☼	08/26/17 03:36	08/26/17 18:07	1
Dibenzofuran	ND		35	2.9	ug/Kg	☼	08/26/17 03:36	08/26/17 18:07	1
2,4-Dinitrotoluene	ND		35	4.7	ug/Kg	☼	08/26/17 03:36	08/26/17 18:07	1
1,4-Dioxane	ND		71	5.4	ug/Kg	☼	08/26/17 03:36	08/26/17 18:07	1
Fluoranthene	**10**		7.2	2.8	ug/Kg	☼	08/26/17 03:36	08/26/17 18:07	1
Fluorene	ND		7.2	2.5	ug/Kg	☼	08/26/17 03:36	08/26/17 18:07	1
Hexachlorobenzene	ND		7.2	2.9	ug/Kg	☼	08/26/17 03:36	08/26/17 18:07	1
Hexachlorobutadiene	ND		7.2	2.2	ug/Kg	☼	08/26/17 03:36	08/26/17 18:07	1
Hexachloroethane	ND		35	2.6	ug/Kg	☼	08/26/17 03:36	08/26/17 18:07	1
Indeno[1,2,3-cd]pyrene	**5.9**	**J**	7.2	2.8	ug/Kg	☼	08/26/17 03:36	08/26/17 18:07	1
2-Methylphenol	ND		35	3.2	ug/Kg	☼	08/26/17 03:36	08/26/17 18:07	1
Methylphenol, 3 & 4	**9.1**	**J**	35	3.2	ug/Kg	☼	08/26/17 03:36	08/26/17 18:07	1
Naphthalene	ND		7.2	2.6	ug/Kg	☼	08/26/17 03:36	08/26/17 18:07	1
Nitrobenzene	ND		71	2.7	ug/Kg	☼	08/26/17 03:36	08/26/17 18:07	1
Pentachlorophenol	ND		180	67	ug/Kg	☼	08/26/17 03:36	08/26/17 18:07	1
Phenanthrene	**5.5**	**J**	7.2	3.0	ug/Kg	☼	08/26/17 03:36	08/26/17 18:07	1
Phenol	ND		35	4.8	ug/Kg	☼	08/26/17 03:36	08/26/17 18:07	1
Pyrene	**8.8**		7.2	3.2	ug/Kg	☼	08/26/17 03:36	08/26/17 18:07	1

Client Sample ID: Wb5-6, S2C 82417 **Lab Sample ID: 180-69679-6**
Date Collected: 08/24/17 13:20 **Matrix: Solid**
Date Received: 08/25/17 07:55 **Percent Solids: 93.5**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyridine	ND		35	3.4	ug/Kg	☼	08/26/17 03:36	08/26/17 18:07	1
2,4,5-Trichlorophenol	ND		35	3.4	ug/Kg	☼	08/26/17 03:36	08/26/17 18:07	1
2,4,6-Trichlorophenol	ND		35	3.1	ug/Kg	☼	08/26/17 03:36	08/26/17 18:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*67*		*34 - 100*	*08/26/17 03:36*	*08/26/17 18:07*	*1*
2-Fluorophenol (Surr)	*66*		*27 - 100*	*08/26/17 03:36*	*08/26/17 18:07*	*1*
Nitrobenzene-d5 (Surr)	*68*		*33 - 100*	*08/26/17 03:36*	*08/26/17 18:07*	*1*
Phenol-d5 (Surr)	*65*		*27 - 100*	*08/26/17 03:36*	*08/26/17 18:07*	*1*
Terphenyl-d14 (Surr)	*67*		*30 - 100*	*08/26/17 03:36*	*08/26/17 18:07*	*1*
2,4,6-Tribromophenol (Surr)	*74*		*20 - 107*	*08/26/17 03:36*	*08/26/17 18:07*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.018	0.0094	mg/Kg	☼	08/26/17 03:41	08/28/17 17:57	1
PCB-1221	ND		0.018	0.0092	mg/Kg	☼	08/26/17 03:41	08/28/17 17:57	1
PCB-1232	ND		0.018	0.0070	mg/Kg	☼	08/26/17 03:41	08/28/17 17:57	1
PCB-1242	ND		0.018	0.014	mg/Kg	☼	08/26/17 03:41	08/28/17 17:57	1
PCB-1248	**0.14**		0.018	0.0085	mg/Kg	☼	08/26/17 03:41	08/28/17 17:57	1
PCB-1254	**0.041**		0.018	0.0078	mg/Kg	☼	08/26/17 03:41	08/28/17 17:57	1
PCB-1260	ND		0.018	0.012	mg/Kg	☼	08/26/17 03:41	08/28/17 17:57	1
PCB-1262	ND		0.018	0.013	mg/Kg	☼	08/26/17 03:41	08/28/17 17:57	1
PCB-1268	ND		0.018	0.0054	mg/Kg	☼	08/26/17 03:41	08/28/17 17:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*67*		*33 - 137*	*08/26/17 03:41*	*08/28/17 17:57*	*1*
DCB Decachlorobiphenyl (Surr)	*65*		*33 - 137*	*08/26/17 03:41*	*08/28/17 17:57*	*1*
Tetrachloro-m-xylene (Surr)	*70*		*44 - 114*	*08/26/17 03:41*	*08/28/17 17:57*	*1*
Tetrachloro-m-xylene (Surr)	*70*		*44 - 114*	*08/26/17 03:41*	*08/28/17 17:57*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**3.9**		1.0	0.45	mg/Kg	☼	08/28/17 10:38	08/30/17 10:28	1
Barium	**51**		20	5.5	mg/Kg	☼	08/28/17 10:38	08/30/17 10:28	1
Beryllium	**0.24**	**J**	0.41	0.11	mg/Kg	☼	08/28/17 10:38	08/30/17 10:28	1
Cadmium	**0.19**	**J**	0.51	0.11	mg/Kg	☼	08/28/17 10:38	08/30/17 10:28	1
Chromium	**8.8**		0.51	0.13	mg/Kg	☼	08/28/17 10:38	08/30/17 10:28	1
Copper	**21**		2.5	0.78	mg/Kg	☼	08/28/17 10:38	08/30/17 10:28	1
Lead	**24**		1.0	0.33	mg/Kg	☼	08/28/17 10:38	08/30/17 10:28	1
Manganese	**480**		1.5	0.41	mg/Kg	☼	08/28/17 10:38	08/30/17 10:28	1
Nickel	**18**		4.1	0.92	mg/Kg	☼	08/28/17 10:38	08/30/17 10:28	1
Selenium	ND		1.0	0.40	mg/Kg	☼	08/28/17 10:38	08/30/17 10:28	1
Silver	ND		0.51	0.17	mg/Kg	☼	08/28/17 10:38	08/30/17 10:28	1
Zinc	**63**		2.0	1.0	mg/Kg	☼	08/28/17 10:38	08/30/17 10:28	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.015**	**J**	0.033	0.0074	mg/Kg	☼	08/29/17 09:03	08/30/17 07:23	1

Client Sample ID: Wb5-6, S2C 82417

Lab Sample ID: 180-69679-6
Date Collected: 08/24/17 13:20
Matrix: Solid
Date Received: 08/25/17 07:55
Percent Solids: 93.5

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**6.5**		0.1	0.1	%			08/25/17 14:04	1
Percent Solids	**93.5**		0.1	0.1	%			08/25/17 14:04	1
Cyanide, Total	ND		0.49	0.15	mg/Kg	☼	08/29/17 14:20	08/29/17 17:24	1

Client Sample ID: DUP 22

Lab Sample ID: 180-69679-7
Date Collected: 08/24/17 00:00
Matrix: Solid
Date Received: 08/25/17 07:55
Percent Solids: 90.9

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		7.2	2.4	ug/Kg	☼	08/26/17 03:36	08/26/17 18:34	1
Acenaphthylene	**2.9**	**J**	7.2	2.4	ug/Kg	☼	08/26/17 03:36	08/26/17 18:34	1
Anthracene	**2.9**	**J**	7.2	2.6	ug/Kg	☼	08/26/17 03:36	08/26/17 18:34	1
Benzo[a]anthracene	**9.9**		7.2	2.8	ug/Kg	☼	08/26/17 03:36	08/26/17 18:34	1
Benzo[a]pyrene	**11**		7.2	3.0	ug/Kg	☼	08/26/17 03:36	08/26/17 18:34	1
Benzo[b]fluoranthene	**15**		7.2	3.1	ug/Kg	☼	08/26/17 03:36	08/26/17 18:34	1
Benzo[g,h,i]perylene	**13**		7.2	3.1	ug/Kg	☼	08/26/17 03:36	08/26/17 18:34	1
Benzo[k]fluoranthene	**7.0**	**J**	7.2	2.5	ug/Kg	☼	08/26/17 03:36	08/26/17 18:34	1
Chrysene	**13**		7.2	2.8	ug/Kg	☼	08/26/17 03:36	08/26/17 18:34	1
Dibenz(a,h)anthracene	ND		7.2	3.0	ug/Kg	☼	08/26/17 03:36	08/26/17 18:34	1
Dibenzofuran	ND		35	2.9	ug/Kg	☼	08/26/17 03:36	08/26/17 18:34	1
2,4-Dinitrotoluene	ND		35	4.7	ug/Kg	☼	08/26/17 03:36	08/26/17 18:34	1
1,4-Dioxane	ND		71	5.4	ug/Kg	☼	08/26/17 03:36	08/26/17 18:34	1
Fluoranthene	**20**		7.2	2.8	ug/Kg	☼	08/26/17 03:36	08/26/17 18:34	1
Fluorene	ND		7.2	2.5	ug/Kg	☼	08/26/17 03:36	08/26/17 18:34	1
Hexachlorobenzene	ND		7.2	2.9	ug/Kg	☼	08/26/17 03:36	08/26/17 18:34	1
Hexachlorobutadiene	ND		7.2	2.3	ug/Kg	☼	08/26/17 03:36	08/26/17 18:34	1
Hexachloroethane	ND		35	2.6	ug/Kg	☼	08/26/17 03:36	08/26/17 18:34	1
Indeno[1,2,3-cd]pyrene	**11**		7.2	2.8	ug/Kg	☼	08/26/17 03:36	08/26/17 18:34	1
2-Methylphenol	ND		35	3.2	ug/Kg	☼	08/26/17 03:36	08/26/17 18:34	1
Methylphenol, 3 & 4	**6.7**	**J**	35	3.2	ug/Kg	☼	08/26/17 03:36	08/26/17 18:34	1
Naphthalene	ND		7.2	2.6	ug/Kg	☼	08/26/17 03:36	08/26/17 18:34	1
Nitrobenzene	ND		71	2.7	ug/Kg	☼	08/26/17 03:36	08/26/17 18:34	1
Pentachlorophenol	ND		180	68	ug/Kg	☼	08/26/17 03:36	08/26/17 18:34	1
Phenanthrene	**8.5**		7.2	3.0	ug/Kg	☼	08/26/17 03:36	08/26/17 18:34	1
Phenol	ND		35	4.8	ug/Kg	☼	08/26/17 03:36	08/26/17 18:34	1
Pyrene	**16**		7.2	3.2	ug/Kg	☼	08/26/17 03:36	08/26/17 18:34	1
Pyridine	ND		35	3.4	ug/Kg	☼	08/26/17 03:36	08/26/17 18:34	1
2,4,5-Trichlorophenol	ND		35	3.4	ug/Kg	☼	08/26/17 03:36	08/26/17 18:34	1
2,4,6-Trichlorophenol	ND		35	3.1	ug/Kg	☼	08/26/17 03:36	08/26/17 18:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*65*		*34 - 100*	*08/26/17 03:36*	*08/26/17 18:34*	*1*
2-Fluorophenol (Surr)	*67*		*27 - 100*	*08/26/17 03:36*	*08/26/17 18:34*	*1*
Nitrobenzene-d5 (Surr)	*68*		*33 - 100*	*08/26/17 03:36*	*08/26/17 18:34*	*1*
Phenol-d5 (Surr)	*64*		*27 - 100*	*08/26/17 03:36*	*08/26/17 18:34*	*1*
Terphenyl-d14 (Surr)	*62*		*30 - 100*	*08/26/17 03:36*	*08/26/17 18:34*	*1*
2,4,6-Tribromophenol (Surr)	*67*		*20 - 107*	*08/26/17 03:36*	*08/26/17 18:34*	*1*

Client Sample ID: DUP 22

Lab Sample ID: 180-69679-7
Date Collected: 08/24/17 00:00 **Matrix: Solid**
Date Received: 08/25/17 07:55 **Percent Solids: 90.9**

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.018	0.0094	mg/Kg	☼	08/26/17 03:41	08/28/17 18:16	1
PCB-1221	ND		0.018	0.0092	mg/Kg	☼	08/26/17 03:41	08/28/17 18:16	1
PCB-1232	ND		0.018	0.0070	mg/Kg	☼	08/26/17 03:41	08/28/17 18:16	1
PCB-1242	ND		0.018	0.014	mg/Kg	☼	08/26/17 03:41	08/28/17 18:16	1
PCB-1248	**0.11**		0.018	0.0085	mg/Kg	☼	08/26/17 03:41	08/28/17 18:16	1
PCB-1254	**0.031**		0.018	0.0078	mg/Kg	☼	08/26/17 03:41	08/28/17 18:16	1
PCB-1260	ND		0.018	0.012	mg/Kg	☼	08/26/17 03:41	08/28/17 18:16	1
PCB-1262	ND		0.018	0.013	mg/Kg	☼	08/26/17 03:41	08/28/17 18:16	1
PCB-1268	ND		0.018	0.0054	mg/Kg	☼	08/26/17 03:41	08/28/17 18:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*58*		*33 - 137*	*08/26/17 03:41*	*08/28/17 18:16*	*1*
DCB Decachlorobiphenyl (Surr)	*57*		*33 - 137*	*08/26/17 03:41*	*08/28/17 18:16*	*1*
Tetrachloro-m-xylene (Surr)	*70*		*44 - 114*	*08/26/17 03:41*	*08/28/17 18:16*	*1*
Tetrachloro-m-xylene (Surr)	*71*		*44 - 114*	*08/26/17 03:41*	*08/28/17 18:16*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**4.7**		1.1	0.50	mg/Kg	☼	08/28/17 10:38	08/30/17 10:34	1
Barium	**58**		23	6.1	mg/Kg	☼	08/28/17 10:38	08/30/17 10:34	1
Beryllium	**0.28**	**J**	0.45	0.12	mg/Kg	☼	08/28/17 10:38	08/30/17 10:34	1
Cadmium	**0.14**	**J**	0.57	0.13	mg/Kg	☼	08/28/17 10:38	08/30/17 10:34	1
Chromium	**9.8**		0.57	0.15	mg/Kg	☼	08/28/17 10:38	08/30/17 10:34	1
Copper	**21**		2.8	0.87	mg/Kg	☼	08/28/17 10:38	08/30/17 10:34	1
Lead	**9.4**		1.1	0.37	mg/Kg	☼	08/28/17 10:38	08/30/17 10:34	1
Manganese	**380**		1.7	0.46	mg/Kg	☼	08/28/17 10:38	08/30/17 10:34	1
Nickel	**17**		4.5	1.0	mg/Kg	☼	08/28/17 10:38	08/30/17 10:34	1
Selenium	**0.82**	**J**	1.1	0.45	mg/Kg	☼	08/28/17 10:38	08/30/17 10:34	1
Silver	ND		0.57	0.19	mg/Kg	☼	08/28/17 10:38	08/30/17 10:34	1
Zinc	**76**		2.3	1.2	mg/Kg	☼	08/28/17 10:38	08/30/17 10:34	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.017**	**J**	0.035	0.0077	mg/Kg	☼	08/29/17 09:03	08/30/17 07:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**9.1**		0.1	0.1	%			08/25/17 14:04	1
Percent Solids	**90.9**		0.1	0.1	%			08/25/17 14:04	1
Cyanide, Total	ND		0.50	0.15	mg/Kg	☼	08/29/17 14:20	08/29/17 17:25	1

Client Sample ID: DUP 23

Lab Sample ID: 180-69679-8
Date Collected: 08/24/17 00:00 **Matrix: Solid**
Date Received: 08/25/17 07:55 **Percent Solids: 68.6**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.028	0.0045	mg/Kg	☼	08/25/17 13:04	08/25/17 15:46	1
Benzene	ND		0.0071	0.0028	mg/Kg	☼	08/25/17 13:04	08/25/17 15:46	1
2-Butanone (MEK)	ND		0.0071	0.0041	mg/Kg	☼	08/25/17 13:04	08/25/17 15:46	1
Carbon tetrachloride	ND		0.0071	0.0047	mg/Kg	☼	08/25/17 13:04	08/25/17 15:46	1

Client Sample ID: DUP 23
Date Collected: 08/24/17 00:00
Date Received: 08/25/17 07:55

Lab Sample ID: 180-69679-8
Matrix: Solid
Percent Solids: 68.6

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	ND		0.0071	0.0022	mg/Kg	☼	08/25/17 13:04	08/25/17 15:46	1
Chloroform	ND		0.0071	0.0030	mg/Kg	☼	08/25/17 13:04	08/25/17 15:46	1
cis-1,2-Dichloroethene	ND		0.0071	0.0022	mg/Kg	☼	08/25/17 13:04	08/25/17 15:46	1
1,2-Dichlorobenzene	ND		0.0071	0.0057	mg/Kg	☼	08/25/17 13:04	08/25/17 15:46	1
1,3-Dichlorobenzene	ND		0.0071	0.0023	mg/Kg	☼	08/25/17 13:04	08/25/17 15:46	1
1,4-Dichlorobenzene	ND		0.0071	0.0014	mg/Kg	☼	08/25/17 13:04	08/25/17 15:46	1
1,1-Dichloroethane	ND		0.0071	0.0026	mg/Kg	☼	08/25/17 13:04	08/25/17 15:46	1
1,2-Dichloroethane	ND		0.0071	0.0021	mg/Kg	☼	08/25/17 13:04	08/25/17 15:46	1
1,1-Dichloroethene	ND		0.0071	0.0040	mg/Kg	☼	08/25/17 13:04	08/25/17 15:46	1
Ethylbenzene	ND		0.0071	0.0030	mg/Kg	☼	08/25/17 13:04	08/25/17 15:46	1
Methylene Chloride	ND		0.0071	0.0033	mg/Kg	☼	08/25/17 13:04	08/25/17 15:46	1
Methyl tert-butyl ether	ND		0.0071	0.0052	mg/Kg	☼	08/25/17 13:04	08/25/17 15:46	1
n-Butylbenzene	ND		0.0071	0.0054	mg/Kg	☼	08/25/17 13:04	08/25/17 15:46	1
N-Propylbenzene	ND		0.0071	0.0030	mg/Kg	☼	08/25/17 13:04	08/25/17 15:46	1
sec-Butylbenzene	ND		0.0071	0.0034	mg/Kg	☼	08/25/17 13:04	08/25/17 15:46	1
tert-Butylbenzene	ND		0.0071	0.0026	mg/Kg	☼	08/25/17 13:04	08/25/17 15:46	1
Tetrachloroethene	ND		0.0071	0.0028	mg/Kg	☼	08/25/17 13:04	08/25/17 15:46	1
Toluene	ND		0.0071	0.0024	mg/Kg	☼	08/25/17 13:04	08/25/17 15:46	1
trans-1,2-Dichloroethene	ND		0.0071	0.0036	mg/Kg	☼	08/25/17 13:04	08/25/17 15:46	1
1,1,1-Trichloroethane	ND		0.0071	0.0035	mg/Kg	☼	08/25/17 13:04	08/25/17 15:46	1
Trichloroethene	ND		0.0071	0.0021	mg/Kg	☼	08/25/17 13:04	08/25/17 15:46	1
1,2,4-Trimethylbenzene	ND		0.0071	0.0019	mg/Kg	☼	08/25/17 13:04	08/25/17 15:46	1
1,3,5-Trimethylbenzene	ND		0.0071	0.0024	mg/Kg	☼	08/25/17 13:04	08/25/17 15:46	1
Vinyl chloride	ND		0.0071	0.0052	mg/Kg	☼	08/25/17 13:04	08/25/17 15:46	1
Xylenes, Total	ND		0.014	0.0061	mg/Kg	☼	08/25/17 13:04	08/25/17 15:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*73 - 113*	*08/25/17 13:04*	*08/25/17 15:46*	*1*
Dibromofluoromethane (Surr)	*92*		*73 - 113*	*08/25/17 13:04*	*08/25/17 15:46*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*63 - 112*	*08/25/17 13:04*	*08/25/17 15:46*	*1*
Toluene-d8 (Surr)	*107*		*90 - 130*	*08/25/17 13:04*	*08/25/17 15:46*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**31.4**		0.1	0.1	%			08/25/17 14:04	1
Percent Solids	**68.6**		0.1	0.1	%			08/25/17 14:04	1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 180-221134/8
Matrix: Solid
Analysis Batch: 221134

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.020	0.0032	mg/Kg			08/25/17 09:08	1
Benzene	ND		0.0050	0.0020	mg/Kg			08/25/17 09:08	1
2-Butanone (MEK)	ND		0.0050	0.0029	mg/Kg			08/25/17 09:08	1
Carbon tetrachloride	ND		0.0050	0.0033	mg/Kg			08/25/17 09:08	1
Chlorobenzene	ND		0.0050	0.0016	mg/Kg			08/25/17 09:08	1
Chloroform	ND		0.0050	0.0021	mg/Kg			08/25/17 09:08	1
cis-1,2-Dichloroethene	ND		0.0050	0.0016	mg/Kg			08/25/17 09:08	1
1,2-Dichlorobenzene	ND		0.0050	0.0040	mg/Kg			08/25/17 09:08	1
1,3-Dichlorobenzene	ND		0.0050	0.0016	mg/Kg			08/25/17 09:08	1
1,4-Dichlorobenzene	ND		0.0050	0.0010	mg/Kg			08/25/17 09:08	1
1,1-Dichloroethane	ND		0.0050	0.0018	mg/Kg			08/25/17 09:08	1
1,2-Dichloroethane	ND		0.0050	0.0015	mg/Kg			08/25/17 09:08	1
1,1-Dichloroethene	ND		0.0050	0.0029	mg/Kg			08/25/17 09:08	1
Ethylbenzene	ND		0.0050	0.0022	mg/Kg			08/25/17 09:08	1
Methylene Chloride	ND		0.0050	0.0024	mg/Kg			08/25/17 09:08	1
Methyl tert-butyl ether	ND		0.0050	0.0037	mg/Kg			08/25/17 09:08	1
n-Butylbenzene	ND		0.0050	0.0038	mg/Kg			08/25/17 09:08	1
N-Propylbenzene	ND		0.0050	0.0021	mg/Kg			08/25/17 09:08	1
sec-Butylbenzene	ND		0.0050	0.0024	mg/Kg			08/25/17 09:08	1
tert-Butylbenzene	ND		0.0050	0.0018	mg/Kg			08/25/17 09:08	1
Tetrachloroethene	ND		0.0050	0.0020	mg/Kg			08/25/17 09:08	1
Toluene	ND		0.0050	0.0017	mg/Kg			08/25/17 09:08	1
trans-1,2-Dichloroethene	ND		0.0050	0.0025	mg/Kg			08/25/17 09:08	1
1,1,1-Trichloroethane	ND		0.0050	0.0025	mg/Kg			08/25/17 09:08	1
Trichloroethene	ND		0.0050	0.0015	mg/Kg			08/25/17 09:08	1
1,2,4-Trimethylbenzene	ND		0.0050	0.0013	mg/Kg			08/25/17 09:08	1
1,3,5-Trimethylbenzene	ND		0.0050	0.0017	mg/Kg			08/25/17 09:08	1
Vinyl chloride	ND		0.0050	0.0037	mg/Kg			08/25/17 09:08	1
Xylenes, Total	ND		0.010	0.0043	mg/Kg			08/25/17 09:08	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*73 - 113*		*08/25/17 09:08*	*1*
Dibromofluoromethane (Surr)	*92*		*73 - 113*		*08/25/17 09:08*	*1*
1,2-Dichloroethane-d4 (Surr)	*112*		*63 - 112*		*08/25/17 09:08*	*1*
Toluene-d8 (Surr)	*105*		*90 - 130*		*08/25/17 09:08*	*1*

Lab Sample ID: LCS 180-221134/3
Matrix: Solid
Analysis Batch: 221134

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0400	0.0317		mg/Kg		79	36 - 150
Benzene	0.0400	0.0360		mg/Kg		90	78 - 118
2-Butanone (MEK)	0.0400	0.0301		mg/Kg		75	30 - 150
Carbon tetrachloride	0.0400	0.0459		mg/Kg		115	60 - 137
Chlorobenzene	0.0400	0.0367		mg/Kg		92	78 - 118
Chloroform	0.0400	0.0404		mg/Kg		101	68 - 124
cis-1,2-Dichloroethene	0.0400	0.0363		mg/Kg		91	71 - 120

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 180-221134/3
Matrix: Solid
Analysis Batch: 221134

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichlorobenzene	0.0400	0.0359		mg/Kg		90	78 - 118
1,3-Dichlorobenzene	0.0400	0.0351		mg/Kg		88	78 - 118
1,4-Dichlorobenzene	0.0400	0.0356		mg/Kg		89	78 - 118
1,1-Dichloroethane	0.0400	0.0397		mg/Kg		99	67 - 129
1,2-Dichloroethane	0.0400	0.0440		mg/Kg		110	67 - 123
1,1-Dichloroethene	0.0400	0.0385		mg/Kg		96	59 - 128
Ethylbenzene	0.0400	0.0368		mg/Kg		92	78 - 118
Methylene Chloride	0.0400	0.0382		mg/Kg		95	68 - 120
Methyl tert-butyl ether	0.0400	0.0403		mg/Kg		101	73 - 121
n-Butylbenzene	0.0400	0.0421		mg/Kg		105	71 - 132
N-Propylbenzene	0.0400	0.0378		mg/Kg		94	72 - 126
sec-Butylbenzene	0.0400	0.0403		mg/Kg		101	80 - 126
tert-Butylbenzene	0.0400	0.0386		mg/Kg		96	80 - 122
Tetrachloroethene	0.0400	0.0342		mg/Kg		86	78 - 118
Toluene	0.0400	0.0381		mg/Kg		95	79 - 121
trans-1,2-Dichloroethene	0.0400	0.0395		mg/Kg		99	71 - 123
1,1,1-Trichloroethane	0.0400	0.0477		mg/Kg		119	69 - 135
Trichloroethene	0.0400	0.0339		mg/Kg		85	76 - 120
1,2,4-Trimethylbenzene	0.0400	0.0386		mg/Kg		96	77 - 122
1,3,5-Trimethylbenzene	0.0400	0.0399		mg/Kg		100	78 - 122
Vinyl chloride	0.0400	0.0307		mg/Kg		77	53 - 148
Xylenes, Total	0.0800	0.0723		mg/Kg		90	78 - 118

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*73 - 113*
Dibromofluoromethane (Surr)	*93*		*73 - 113*
1,2-Dichloroethane-d4 (Surr)	*108*		*63 - 112*
Toluene-d8 (Surr)	*96*		*90 - 130*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Lab Sample ID: MB 180-221247/1-A
Matrix: Solid
Analysis Batch: 221263

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 221247

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		6.7	2.2	ug/Kg		08/26/17 03:36	08/26/17 13:10	1
Acenaphthylene	ND		6.7	2.3	ug/Kg		08/26/17 03:36	08/26/17 13:10	1
Anthracene	ND		6.7	2.5	ug/Kg		08/26/17 03:36	08/26/17 13:10	1
Benzo[a]anthracene	ND		6.7	2.6	ug/Kg		08/26/17 03:36	08/26/17 13:10	1
Benzo[a]pyrene	ND		6.7	2.8	ug/Kg		08/26/17 03:36	08/26/17 13:10	1
Benzo[b]fluoranthene	ND		6.7	2.9	ug/Kg		08/26/17 03:36	08/26/17 13:10	1
Benzo[g,h,i]perylene	ND		6.7	2.9	ug/Kg		08/26/17 03:36	08/26/17 13:10	1
Benzo[k]fluoranthene	ND		6.7	2.3	ug/Kg		08/26/17 03:36	08/26/17 13:10	1
Chrysene	ND		6.7	2.6	ug/Kg		08/26/17 03:36	08/26/17 13:10	1
Dibenz(a,h)anthracene	ND		6.7	2.8	ug/Kg		08/26/17 03:36	08/26/17 13:10	1
Dibenzofuran	ND		33	2.7	ug/Kg		08/26/17 03:36	08/26/17 13:10	1
2,4-Dinitrotoluene	ND		33	4.4	ug/Kg		08/26/17 03:36	08/26/17 13:10	1

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: MB 180-221247/1-A
Matrix: Solid
Analysis Batch: 221263

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 221247

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		67	5.0	ug/Kg		08/26/17 03:36	08/26/17 13:10	1
Fluoranthene	ND		6.7	2.6	ug/Kg		08/26/17 03:36	08/26/17 13:10	1
Fluorene	ND		6.7	2.4	ug/Kg		08/26/17 03:36	08/26/17 13:10	1
Hexachlorobenzene	ND		6.7	2.7	ug/Kg		08/26/17 03:36	08/26/17 13:10	1
Hexachlorobutadiene	ND		6.7	2.1	ug/Kg		08/26/17 03:36	08/26/17 13:10	1
Hexachloroethane	ND		33	2.4	ug/Kg		08/26/17 03:36	08/26/17 13:10	1
Indeno[1,2,3-cd]pyrene	ND		6.7	2.6	ug/Kg		08/26/17 03:36	08/26/17 13:10	1
2-Methylphenol	ND		33	2.9	ug/Kg		08/26/17 03:36	08/26/17 13:10	1
Methylphenol, 3 & 4	ND		33	3.0	ug/Kg		08/26/17 03:36	08/26/17 13:10	1
Naphthalene	ND		6.7	2.4	ug/Kg		08/26/17 03:36	08/26/17 13:10	1
Nitrobenzene	ND		67	2.5	ug/Kg		08/26/17 03:36	08/26/17 13:10	1
Pentachlorophenol	ND		170	63	ug/Kg		08/26/17 03:36	08/26/17 13:10	1
Phenanthrene	ND		6.7	2.8	ug/Kg		08/26/17 03:36	08/26/17 13:10	1
Phenol	ND		33	4.5	ug/Kg		08/26/17 03:36	08/26/17 13:10	1
Pyrene	ND		6.7	3.0	ug/Kg		08/26/17 03:36	08/26/17 13:10	1
Pyridine	ND		33	3.2	ug/Kg		08/26/17 03:36	08/26/17 13:10	1
2,4,5-Trichlorophenol	ND		33	3.2	ug/Kg		08/26/17 03:36	08/26/17 13:10	1
2,4,6-Trichlorophenol	ND		33	2.9	ug/Kg		08/26/17 03:36	08/26/17 13:10	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*59*		*34 - 100*	*08/26/17 03:36*	*08/26/17 13:10*	*1*
2-Fluorophenol (Surr)	*67*		*27 - 100*	*08/26/17 03:36*	*08/26/17 13:10*	*1*
Nitrobenzene-d5 (Surr)	*64*		*33 - 100*	*08/26/17 03:36*	*08/26/17 13:10*	*1*
Phenol-d5 (Surr)	*59*		*27 - 100*	*08/26/17 03:36*	*08/26/17 13:10*	*1*
Terphenyl-d14 (Surr)	*58*		*30 - 100*	*08/26/17 03:36*	*08/26/17 13:10*	*1*
2,4,6-Tribromophenol (Surr)	*65*		*20 - 107*	*08/26/17 03:36*	*08/26/17 13:10*	*1*

Lab Sample ID: LCS 180-221247/2-A
Matrix: Solid
Analysis Batch: 221263

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 221247

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	667	393		ug/Kg		59	43 - 100
Acenaphthylene	667	406		ug/Kg		61	43 - 100
Anthracene	667	416		ug/Kg		62	48 - 100
Benzo[a]anthracene	667	432		ug/Kg		65	46 - 100
Benzo[a]pyrene	667	425		ug/Kg		64	46 - 100
Benzo[b]fluoranthene	667	387		ug/Kg		58	42 - 100
Benzo[g,h,i]perylene	667	458		ug/Kg		69	45 - 100
Benzo[k]fluoranthene	667	413		ug/Kg		62	45 - 100
Chrysene	667	438		ug/Kg		66	47 - 100
Dibenz(a,h)anthracene	667	469		ug/Kg		70	47 - 100
Dibenzofuran	667	426		ug/Kg		64	48 - 100
2,4-Dinitrotoluene	667	503		ug/Kg		76	45 - 106
1,4-Dioxane	667	632		ug/Kg		95	40 - 115
Fluoranthene	667	446		ug/Kg		67	47 - 100
Fluorene	667	429		ug/Kg		64	45 - 100
Hexachlorobenzene	667	414		ug/Kg		62	45 - 104

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCS 180-221247/2-A
Matrix: Solid
Analysis Batch: 221263

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 221247

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Hexachlorobutadiene	667	509		ug/Kg		76	41 - 101
Hexachloroethane	667	456		ug/Kg		68	46 - 100
Indeno[1,2,3-cd]pyrene	667	465		ug/Kg		70	46 - 100
2-Methylphenol	667	401		ug/Kg		60	46 - 100
Methylphenol, 3 & 4	667	448		ug/Kg		67	46 - 100
Naphthalene	667	413		ug/Kg		62	46 - 100
Nitrobenzene	667	412		ug/Kg		62	43 - 100
Pentachlorophenol	1330	725		ug/Kg		54	25 - 114
Phenanthrene	667	399		ug/Kg		60	46 - 100
Phenol	667	411		ug/Kg		62	46 - 100
Pyrene	667	403		ug/Kg		60	41 - 100
Pyridine	1330	1350		ug/Kg		101	10 - 141
2,4,5-Trichlorophenol	667	423		ug/Kg		63	43 - 103
2,4,6-Trichlorophenol	667	429		ug/Kg		64	45 - 104

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*58*		*34 - 100*
2-Fluorophenol (Surr)	*74*		*27 - 100*
Nitrobenzene-d5 (Surr)	*64*		*33 - 100*
Phenol-d5 (Surr)	*64*		*27 - 100*
Terphenyl-d14 (Surr)	*63*		*30 - 100*
2,4,6-Tribromophenol (Surr)	*66*		*20 - 107*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 180-221249/1-C
Matrix: Solid
Analysis Batch: 221316

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 221249

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.017	0.0088	mg/Kg		08/26/17 03:41	08/28/17 17:20	1
PCB-1221	ND		0.017	0.0086	mg/Kg		08/26/17 03:41	08/28/17 17:20	1
PCB-1232	ND		0.017	0.0066	mg/Kg		08/26/17 03:41	08/28/17 17:20	1
PCB-1242	ND		0.017	0.013	mg/Kg		08/26/17 03:41	08/28/17 17:20	1
PCB-1248	ND		0.017	0.0080	mg/Kg		08/26/17 03:41	08/28/17 17:20	1
PCB-1254	ND		0.017	0.0073	mg/Kg		08/26/17 03:41	08/28/17 17:20	1
PCB-1260	ND		0.017	0.011	mg/Kg		08/26/17 03:41	08/28/17 17:20	1
PCB-1262	ND		0.017	0.012	mg/Kg		08/26/17 03:41	08/28/17 17:20	1
PCB-1268	ND		0.017	0.0051	mg/Kg		08/26/17 03:41	08/28/17 17:20	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*75*		*33 - 137*	*08/26/17 03:41*	*08/28/17 17:20*	*1*
DCB Decachlorobiphenyl (Surr)	*71*		*33 - 137*	*08/26/17 03:41*	*08/28/17 17:20*	*1*
Tetrachloro-m-xylene (Surr)	*71*		*44 - 114*	*08/26/17 03:41*	*08/28/17 17:20*	*1*
Tetrachloro-m-xylene (Surr)	*73*		*44 - 114*	*08/26/17 03:41*	*08/28/17 17:20*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCS 180-221249/2-C
Matrix: Solid
Analysis Batch: 221316

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 221249

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			1.33	1.06		mg/Kg		80	46 - 122		
PCB-1260			1.33	0.964		mg/Kg		72	51 - 119		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*76*		*33 - 137*
DCB Decachlorobiphenyl (Surr)	*77*		*33 - 137*
Tetrachloro-m-xylene (Surr)	*77*		*44 - 114*
Tetrachloro-m-xylene (Surr)	*77*		*44 - 114*

Lab Sample ID: LCSD 180-221249/3-C
Matrix: Solid
Analysis Batch: 221316

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 221249

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016			1.33	1.18		mg/Kg		88	46 - 122	10	23
PCB-1260			1.33	1.03		mg/Kg		77	51 - 119	7	17

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*80*		*33 - 137*
DCB Decachlorobiphenyl (Surr)	*80*		*33 - 137*
Tetrachloro-m-xylene (Surr)	*81*		*44 - 114*
Tetrachloro-m-xylene (Surr)	*79*		*44 - 114*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 180-221352/1-A
Matrix: Solid
Analysis Batch: 221626

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 221352

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		1.0	0.44	mg/Kg		08/28/17 10:38	08/30/17 10:03	1
Barium	ND		20	5.4	mg/Kg		08/28/17 10:38	08/30/17 10:03	1
Beryllium	ND		0.40	0.10	mg/Kg		08/28/17 10:38	08/30/17 10:03	1
Cadmium	ND		0.50	0.11	mg/Kg		08/28/17 10:38	08/30/17 10:03	1
Chromium	ND		0.50	0.13	mg/Kg		08/28/17 10:38	08/30/17 10:03	1
Copper	ND		2.5	0.77	mg/Kg		08/28/17 10:38	08/30/17 10:03	1
Lead	ND		1.0	0.33	mg/Kg		08/28/17 10:38	08/30/17 10:03	1
Manganese	ND		1.5	0.41	mg/Kg		08/28/17 10:38	08/30/17 10:03	1
Nickel	ND		4.0	0.90	mg/Kg		08/28/17 10:38	08/30/17 10:03	1
Selenium	ND		1.0	0.40	mg/Kg		08/28/17 10:38	08/30/17 10:03	1
Silver	ND		0.50	0.17	mg/Kg		08/28/17 10:38	08/30/17 10:03	1
Zinc	ND		2.0	1.0	mg/Kg		08/28/17 10:38	08/30/17 10:03	1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCS 180-221352/2-A
Matrix: Solid
Analysis Batch: 221626

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 221352

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	50.0	50.9		mg/Kg		102	80 - 120
Barium	200	205		mg/Kg		102	80 - 120
Beryllium	5.00	5.22		mg/Kg		104	80 - 120
Cadmium	5.00	5.12		mg/Kg		102	80 - 120
Chromium	20.0	20.2		mg/Kg		101	80 - 120
Copper	25.0	25.5		mg/Kg		102	80 - 120
Lead	50.0	50.2		mg/Kg		100	80 - 120
Manganese	50.0	50.6		mg/Kg		101	80 - 120
Nickel	50.0	51.2		mg/Kg		102	80 - 120
Selenium	50.0	51.0		mg/Kg		102	80 - 120
Silver	5.00	5.08		mg/Kg		102	80 - 120
Zinc	50.0	51.6		mg/Kg		103	80 - 120

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 180-221438/1-A
Matrix: Solid
Analysis Batch: 221625

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 221438

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.033	0.0074	mg/Kg		08/29/17 09:03	08/30/17 07:13	1

Lab Sample ID: LCS 180-221438/2-A
Matrix: Solid
Analysis Batch: 221625

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 221438

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.417	0.476		mg/Kg		114	80 - 120

Lab Sample ID: 180-69679-3 MS
Matrix: Solid
Analysis Batch: 221625

Client Sample ID: Wb4-5, S2C 82417
Prep Type: Total/NA
Prep Batch: 221438

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.016	J F1	0.163	0.228	F1	mg/Kg	☼	131	80 - 120

Lab Sample ID: 180-69679-3 MSD
Matrix: Solid
Analysis Batch: 221625

Client Sample ID: Wb4-5, S2C 82417
Prep Type: Total/NA
Prep Batch: 221438

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.016	J F1	0.191	0.190		mg/Kg	☼	91	80 - 120	18	20

Method: 2540G - SM 2540G

Lab Sample ID: 180-69679-8 DU
Matrix: Solid
Analysis Batch: 221223

Client Sample ID: DUP 23
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	31.4			29.7		%				6	20
Percent Solids	68.6			70.3		%				3	20

Method: 9014 - Cyanide

Lab Sample ID: MB 180-221468/4-A
Matrix: Solid
Analysis Batch: 221627

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 221468

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.50	0.15	mg/Kg		08/29/17 14:20	08/29/17 17:06	1

Lab Sample ID: HLCS 180-221468/2-A
Matrix: Solid
Analysis Batch: 221627

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 221468

Analyte			Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cyanide, Total			0.250	0.246		mg/Kg		98	90 - 110		

Lab Sample ID: LCS 180-221468/3-A
Matrix: Solid
Analysis Batch: 221627

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 221468

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cyanide, Total			151	136		mg/Kg		90	38 - 162		

Lab Sample ID: LLCS 180-221468/1-A
Matrix: Solid
Analysis Batch: 221627

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 221468

Analyte			Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Cyanide, Total			0.0500	0.0483		mg/Kg		97	90 - 110		

GC/MS VOA

Analysis Batch: 221134

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-69679-1	Wb4-5, S2A 82417	Total/NA	Solid	8260C	221143
180-69679-2	Wb4-5, S2B 82417	Total/NA	Solid	8260C	221143
180-69679-4	Wb5-6, S2A 82417	Total/NA	Solid	8260C	221143
180-69679-5	Wb5-6, S2B 82417	Total/NA	Solid	8260C	221143
180-69679-8	DUP 23	Total/NA	Solid	8260C	221143
MB 180-221134/8	Method Blank	Total/NA	Solid	8260C	
LCS 180-221134/3	Lab Control Sample	Total/NA	Solid	8260C	

Prep Batch: 221143

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-69679-1	Wb4-5, S2A 82417	Total/NA	Solid	5035	
180-69679-2	Wb4-5, S2B 82417	Total/NA	Solid	5035	
180-69679-4	Wb5-6, S2A 82417	Total/NA	Solid	5035	
180-69679-5	Wb5-6, S2B 82417	Total/NA	Solid	5035	
180-69679-8	DUP 23	Total/NA	Solid	5035	

GC/MS Semi VOA

Prep Batch: 221247

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-69679-3	Wb4-5, S2C 82417	Total/NA	Solid	3541	
180-69679-6	Wb5-6, S2C 82417	Total/NA	Solid	3541	
180-69679-7	DUP 22	Total/NA	Solid	3541	
MB 180-221247/1-A	Method Blank	Total/NA	Solid	3541	
LCS 180-221247/2-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 221263

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-69679-3	Wb4-5, S2C 82417	Total/NA	Solid	8270D LL	221247
180-69679-6	Wb5-6, S2C 82417	Total/NA	Solid	8270D LL	221247
180-69679-7	DUP 22	Total/NA	Solid	8270D LL	221247
MB 180-221247/1-A	Method Blank	Total/NA	Solid	8270D LL	221247
LCS 180-221247/2-A	Lab Control Sample	Total/NA	Solid	8270D LL	221247

GC Semi VOA

Prep Batch: 221249

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-69679-3	Wb4-5, S2C 82417	Total/NA	Solid	3541	
180-69679-6	Wb5-6, S2C 82417	Total/NA	Solid	3541	
180-69679-7	DUP 22	Total/NA	Solid	3541	
MB 180-221249/1-C	Method Blank	Total/NA	Solid	3541	
LCS 180-221249/2-C	Lab Control Sample	Total/NA	Solid	3541	
LCSD 180-221249/3-C	Lab Control Sample Dup	Total/NA	Solid	3541	

Cleanup Batch: 221273

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-69679-3	Wb4-5, S2C 82417	Total/NA	Solid	3665A	221249
180-69679-6	Wb5-6, S2C 82417	Total/NA	Solid	3665A	221249
180-69679-7	DUP 22	Total/NA	Solid	3665A	221249

GC Semi VOA (Continued)

Cleanup Batch: 221273 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 180-221249/1-C	Method Blank	Total/NA	Solid	3665A	221249
LCS 180-221249/2-C	Lab Control Sample	Total/NA	Solid	3665A	221249
LCSD 180-221249/3-C	Lab Control Sample Dup	Total/NA	Solid	3665A	221249

Cleanup Batch: 221274

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-69679-3	Wb4-5, S2C 82417	Total/NA	Solid	3660B	221273
180-69679-6	Wb5-6, S2C 82417	Total/NA	Solid	3660B	221273
180-69679-7	DUP 22	Total/NA	Solid	3660B	221273
MB 180-221249/1-C	Method Blank	Total/NA	Solid	3660B	221273
LCS 180-221249/2-C	Lab Control Sample	Total/NA	Solid	3660B	221273
LCSD 180-221249/3-C	Lab Control Sample Dup	Total/NA	Solid	3660B	221273

Analysis Batch: 221316

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-69679-3	Wb4-5, S2C 82417	Total/NA	Solid	8082A	221274
180-69679-6	Wb5-6, S2C 82417	Total/NA	Solid	8082A	221274
180-69679-7	DUP 22	Total/NA	Solid	8082A	221274
MB 180-221249/1-C	Method Blank	Total/NA	Solid	8082A	221274
LCS 180-221249/2-C	Lab Control Sample	Total/NA	Solid	8082A	221274
LCSD 180-221249/3-C	Lab Control Sample Dup	Total/NA	Solid	8082A	221274

Metals

Prep Batch: 221352

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-69679-3	Wb4-5, S2C 82417	Total/NA	Solid	3050B	
180-69679-6	Wb5-6, S2C 82417	Total/NA	Solid	3050B	
180-69679-7	DUP 22	Total/NA	Solid	3050B	
MB 180-221352/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 180-221352/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Prep Batch: 221438

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-69679-3	Wb4-5, S2C 82417	Total/NA	Solid	7471B	
180-69679-6	Wb5-6, S2C 82417	Total/NA	Solid	7471B	
180-69679-7	DUP 22	Total/NA	Solid	7471B	
MB 180-221438/1-A	Method Blank	Total/NA	Solid	7471B	
LCS 180-221438/2-A	Lab Control Sample	Total/NA	Solid	7471B	
180-69679-3 MS	Wb4-5, S2C 82417	Total/NA	Solid	7471B	
180-69679-3 MSD	Wb4-5, S2C 82417	Total/NA	Solid	7471B	

Analysis Batch: 221625

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-69679-3	Wb4-5, S2C 82417	Total/NA	Solid	7471B	221438
180-69679-6	Wb5-6, S2C 82417	Total/NA	Solid	7471B	221438
180-69679-7	DUP 22	Total/NA	Solid	7471B	221438
MB 180-221438/1-A	Method Blank	Total/NA	Solid	7471B	221438
LCS 180-221438/2-A	Lab Control Sample	Total/NA	Solid	7471B	221438
180-69679-3 MS	Wb4-5, S2C 82417	Total/NA	Solid	7471B	221438

Metals (Continued)

Analysis Batch: 221625 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-69679-3 MSD	Wb4-5, S2C 82417	Total/NA	Solid	7471B	221438

Analysis Batch: 221626

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-69679-3	Wb4-5, S2C 82417	Total/NA	Solid	6010C	221352
180-69679-6	Wb5-6, S2C 82417	Total/NA	Solid	6010C	221352
180-69679-7	DUP 22	Total/NA	Solid	6010C	221352
MB 180-221352/1-A	Method Blank	Total/NA	Solid	6010C	221352
LCS 180-221352/2-A	Lab Control Sample	Total/NA	Solid	6010C	221352

General Chemistry

Analysis Batch: 221223

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-69679-1	Wb4-5, S2A 82417	Total/NA	Solid	2540G	
180-69679-2	Wb4-5, S2B 82417	Total/NA	Solid	2540G	
180-69679-3	Wb4-5, S2C 82417	Total/NA	Solid	2540G	
180-69679-4	Wb5-6, S2A 82417	Total/NA	Solid	2540G	
180-69679-5	Wb5-6, S2B 82417	Total/NA	Solid	2540G	
180-69679-6	Wb5-6, S2C 82417	Total/NA	Solid	2540G	
180-69679-7	DUP 22	Total/NA	Solid	2540G	
180-69679-8	DUP 23	Total/NA	Solid	2540G	
180-69679-8 DU	DUP 23	Total/NA	Solid	2540G	

Prep Batch: 221468

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-69679-3	Wb4-5, S2C 82417	Total/NA	Solid	9010C	
180-69679-6	Wb5-6, S2C 82417	Total/NA	Solid	9010C	
180-69679-7	DUP 22	Total/NA	Solid	9010C	
MB 180-221468/4-A	Method Blank	Total/NA	Solid	9010C	
HLCS 180-221468/2-A	Lab Control Sample	Total/NA	Solid	9010C	
LCS 180-221468/3-A	Lab Control Sample	Total/NA	Solid	9010C	
LLCS 180-221468/1-A	Lab Control Sample	Total/NA	Solid	9010C	

Analysis Batch: 221627

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-69679-3	Wb4-5, S2C 82417	Total/NA	Solid	9014	221468
180-69679-6	Wb5-6, S2C 82417	Total/NA	Solid	9014	221468
180-69679-7	DUP 22	Total/NA	Solid	9014	221468
MB 180-221468/4-A	Method Blank	Total/NA	Solid	9014	221468
HLCS 180-221468/2-A	Lab Control Sample	Total/NA	Solid	9014	221468
LCS 180-221468/3-A	Lab Control Sample	Total/NA	Solid	9014	221468
LLCS 180-221468/1-A	Lab Control Sample	Total/NA	Solid	9014	221468

TestAmerica Pittsburgh
301 Alpha Drive RIDC Park
Pittsburgh, PA 15238
Phone (412) 963-7058 Fax (412) 963-2468

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Ashwin Ranna	Lab PM: Dunlap, David A	Carrier Tracking No(s):	COC No: 180-38494-8381.1
Client Contact: Ashwin Ranna, Arom Kasnopoler	Phone: 2125524758	E-Mail: david.dunlap@testamericainc.com		Page: Page 1 of 1
Company: Geosyntec Consultants, Inc.				Job #:
Address: Penn Center West One, Suite 402 1 Penn Center West Drive	Due Date Requested:			
City: Pittsburgh	TAT Requested (days): 1 Day			
State, Zip: PA, 15276				
Phone:	PO #: MN0832B			
Email: aranna@geosyntec.com; akrasnopoler@geosyntec.com	WO #:			
Project Name: Former Sperry Remington Site - North IRM	Project #: 18013464			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL M - Hexane
B - NaOH N - None

180-69679 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - VOA-Select List	6010C, 7471B, 9014 - Select ICP Metals, Mercury, Cyanide	8082A, 8270D, PCBs, Select BNA	8260C - VOA-Select List (Trip Blanks only)	Total Number of conta	Special Instructions/Note:
Preservation Code:							N	N	N	A		
Wb 4-5 S2A 82417	8.24.2017	1250	G	Solid	N	N	X					Rush.
Wb 4-5 S2B 82417	8.24.17	1255	G	Solid	N	N	X					
Wb 4-5 S2C 82417	8.24.17	1300	C	Solid	N	N		X	X			
Wb 5-6 S 2A 82417	8.24.17	1310	G	Solid	N	N	X					
Wb 5-6 S2B 82417	8.24.17	1315	G	Solid	N	N	X					
Wb 5-6 S2C 82417	8.24.17	1320	C	Solid	N	N		X	X			
~~Wb 5-6 S3A 82417~~	~~8.24.17~~	~~1335~~	~~G~~	~~Solid~~	~~N~~	~~N~~	~~X~~					
~~Wb 5-6 S3B 82417~~	~~8.24.17~~	~~1340~~	~~G~~	~~Solid~~	~~N~~	~~N~~	~~X~~					
~~Wb 5-6 S3C 82417~~	~~8.24.17~~	~~1345~~	~~C~~	~~Solid~~	~~N~~	~~N~~		~~X~~	~~X~~			
Dup 01-22	8.24.17	—	C	Solid	N	N		X	X			
Dup 02-23	8.24.17	—	G	Solid	N	N	X					

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☑ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment: Fedex

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Ashwin Ranna	8.24.2017 1800	Geosyntec		8-25-17 07:55	TA Pitt
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 3.1 CF=0 #12

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 180-69679-1

Login Number: 69679
List Number: 1
Creator: Colussy, Jill L

List Source: TestAmerica Pittsburgh

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

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ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh, PA 15238
Tel: (412)963-7058

TestAmerica Job ID: 180-69728-1
Client Project/Site: Former Sperry Remington Site - North IRM

For:
Geosyntec Consultants, Inc.
10211 Wincopin Circle
4'th Floor
Columbia, Maryland 21044

Attn: Mr. Aron Krasnopoler

Authorized for release by:
9/5/2017 12:49:59 PM

David Dunlap, Senior Project Manager
(412)963-2432
david.dunlap@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Job ID: 180-69728-1

Laboratory: TestAmerica Pittsburgh

Narrative

Job Narrative
180-69728-1

Receipt
The samples were received on 8/26/2017 9:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.4º C.

GC/MS VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC/MS Semi VOA
Method(s) 8270D LL: The following sample was diluted due to the nature of the sample matrix (extract was dark and viscous): Wb5-6, S3C, 82517 (180-69728-2). Elevated reporting limits (RLs) are provided.

Method(s) 8270D LL: The continuing calibration verification (CCV) analyzed in batch 180-221833 was below method criteria for the following analyte: pentachlorophenol. A CCV standard at or below the reporting limit (RL) was analyzed with the affected sample and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte is considered estimated.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Accreditation/Certification Summary

Client: Geosyntec Consultants, Inc. TestAmerica Job ID: 180-69728-1
Project/Site: Former Sperry Remington Site - North IRM

Laboratory: TestAmerica Pittsburgh

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	11182	03-31-18

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
2540G		Solid	Percent Moisture
2540G		Solid	Percent Solids
8270D LL	3541	Solid	1,4-Dioxane

Sample Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-69728-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-69728-1	Wb5-6, S3A, 82517	Solid	08/25/17 13:30	08/26/17 09:15
180-69728-2	Wb5-6, S3C, 82517	Solid	08/25/17 13:35	08/26/17 09:15

Method Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-69728-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL PIT
8270D LL	Semivolatile Organic Compounds by GC/MS - Low Level	SW846	TAL PIT
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL PIT
6010C	Metals (ICP)	SW846	TAL PIT
7471B	Mercury (CVAA)	SW846	TAL PIT
2540G	SM 2540G	SM22	TAL PIT
9014	Cyanide	SW846	TAL PIT

Protocol References:

SM22 = SM22

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-69728-1

Client Sample ID: Wb5-6, S3A, 82517
Date Collected: 08/25/17 13:30
Date Received: 08/26/17 09:15

Lab Sample ID: 180-69728-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			221368	08/28/17 14:40	CMR	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: Wb5-6, S3A, 82517
Date Collected: 08/25/17 13:30
Date Received: 08/26/17 09:15

Lab Sample ID: 180-69728-1
Matrix: Solid
Percent Solids: 88.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.753 g	5 mL	221423	08/29/17 05:16	KLG	TAL PIT
Total/NA	Analysis	8260C		1	5 mL	5 mL	221413	08/29/17 09:22	KLG	TAL PIT
	Instrument ID: CHHP3									

Client Sample ID: Wb5-6, S3C, 82517
Date Collected: 08/25/17 13:35
Date Received: 08/26/17 09:15

Lab Sample ID: 180-69728-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			221368	08/28/17 14:40	CMR	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: Wb5-6, S3C, 82517
Date Collected: 08/25/17 13:35
Date Received: 08/26/17 09:15

Lab Sample ID: 180-69728-2
Matrix: Solid
Percent Solids: 87.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.5 g	0.5 mL	221762	09/01/17 03:51	BAP	TAL PIT
Total/NA	Analysis	8270D LL		4	1 mL	1 mL	221833	09/01/17 14:40	DLF	TAL PIT
	Instrument ID: CH71									
Total/NA	Prep	3541			15.1 g	20.0 mL	221764	09/01/17 03:55	BAP	TAL PIT
Total/NA	Cleanup	3665A			2 mL	2 mL	221840	09/01/17 10:40	JMO	TAL PIT
Total/NA	Cleanup	3660B			2 mL	2 mL	221841	09/01/17 10:41	JMO	TAL PIT
Total/NA	Analysis	8082A		1			221876	09/03/17 00:06	JMO	TAL PIT
	Instrument ID: CHGC16									
Total/NA	Prep	3050B			0.97 g	100 mL	221454	08/29/17 10:23	SES	TAL PIT
Total/NA	Analysis	6010C		1			221716	08/31/17 09:00	RJR	TAL PIT
	Instrument ID: C									
Total/NA	Prep	7471B			0.56 g	100 mL	221438	08/29/17 09:03	ANA	TAL PIT
Total/NA	Analysis	7471B		1			221625	08/30/17 07:31	ANA	TAL PIT
	Instrument ID: K									
Total/NA	Prep	9010C			1.05 g	50 mL	221468	08/29/17 14:20	JAS	TAL PIT
Total/NA	Analysis	9014		1			221627	08/29/17 17:27	JAS	TAL PIT
	Instrument ID: SEAL2									

Lab Chronicle

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-69728-1

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Analyst References:

Lab: TAL PIT

Batch Type: Cleanup

JMO = John Oravec

Batch Type: Prep

ANA = Alexis Anderson

BAP = Brian Pino

JAS = Joshua Schmidt

KLG = Kathy Gordon

SES = Samantha Strauser

Batch Type: Analysis

ANA = Alexis Anderson

CMR = Carl Reagle

DLF = Donald Ferguson

JAS = Joshua Schmidt

JMO = John Oravec

KLG = Kathy Gordon

RJR = Ron Rosenbaum

Client Sample ID: Wb5-6, S3A, 82517

Lab Sample ID: 180-69728-1
Date Collected: 08/25/17 13:30
Matrix: Solid
Date Received: 08/26/17 09:15
Percent Solids: 88.5

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.020	0.0031	mg/Kg	☼	08/29/17 05:16	08/29/17 09:22	1
Benzene	ND		0.0049	0.0019	mg/Kg	☼	08/29/17 05:16	08/29/17 09:22	1
2-Butanone (MEK)	ND		0.0049	0.0028	mg/Kg	☼	08/29/17 05:16	08/29/17 09:22	1
Carbon tetrachloride	ND		0.0049	0.0033	mg/Kg	☼	08/29/17 05:16	08/29/17 09:22	1
Chlorobenzene	ND		0.0049	0.0015	mg/Kg	☼	08/29/17 05:16	08/29/17 09:22	1
Chloroform	ND		0.0049	0.0021	mg/Kg	☼	08/29/17 05:16	08/29/17 09:22	1
cis-1,2-Dichloroethene	ND		0.0049	0.0015	mg/Kg	☼	08/29/17 05:16	08/29/17 09:22	1
1,2-Dichlorobenzene	ND		0.0049	0.0040	mg/Kg	☼	08/29/17 05:16	08/29/17 09:22	1
1,3-Dichlorobenzene	ND		0.0049	0.0016	mg/Kg	☼	08/29/17 05:16	08/29/17 09:22	1
1,4-Dichlorobenzene	ND		0.0049	0.0010	mg/Kg	☼	08/29/17 05:16	08/29/17 09:22	1
1,1-Dichloroethane	ND		0.0049	0.0018	mg/Kg	☼	08/29/17 05:16	08/29/17 09:22	1
1,2-Dichloroethane	ND		0.0049	0.0014	mg/Kg	☼	08/29/17 05:16	08/29/17 09:22	1
1,1-Dichloroethene	ND		0.0049	0.0028	mg/Kg	☼	08/29/17 05:16	08/29/17 09:22	1
Ethylbenzene	ND		0.0049	0.0021	mg/Kg	☼	08/29/17 05:16	08/29/17 09:22	1
Methylene Chloride	ND		0.0049	0.0023	mg/Kg	☼	08/29/17 05:16	08/29/17 09:22	1
Methyl tert-butyl ether	ND		0.0049	0.0036	mg/Kg	☼	08/29/17 05:16	08/29/17 09:22	1
n-Butylbenzene	ND		0.0049	0.0037	mg/Kg	☼	08/29/17 05:16	08/29/17 09:22	1
N-Propylbenzene	ND		0.0049	0.0021	mg/Kg	☼	08/29/17 05:16	08/29/17 09:22	1
sec-Butylbenzene	ND		0.0049	0.0024	mg/Kg	☼	08/29/17 05:16	08/29/17 09:22	1
tert-Butylbenzene	ND		0.0049	0.0018	mg/Kg	☼	08/29/17 05:16	08/29/17 09:22	1
Tetrachloroethene	ND		0.0049	0.0020	mg/Kg	☼	08/29/17 05:16	08/29/17 09:22	1
Toluene	ND		0.0049	0.0017	mg/Kg	☼	08/29/17 05:16	08/29/17 09:22	1
trans-1,2-Dichloroethene	ND		0.0049	0.0025	mg/Kg	☼	08/29/17 05:16	08/29/17 09:22	1
1,1,1-Trichloroethane	ND		0.0049	0.0025	mg/Kg	☼	08/29/17 05:16	08/29/17 09:22	1
Trichloroethene	ND		0.0049	0.0015	mg/Kg	☼	08/29/17 05:16	08/29/17 09:22	1
1,2,4-Trimethylbenzene	ND		0.0049	0.0013	mg/Kg	☼	08/29/17 05:16	08/29/17 09:22	1
1,3,5-Trimethylbenzene	ND		0.0049	0.0017	mg/Kg	☼	08/29/17 05:16	08/29/17 09:22	1
Vinyl chloride	ND		0.0049	0.0036	mg/Kg	☼	08/29/17 05:16	08/29/17 09:22	1
Xylenes, Total	ND		0.0098	0.0042	mg/Kg	☼	08/29/17 05:16	08/29/17 09:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*73 - 113*	*08/29/17 05:16*	*08/29/17 09:22*	*1*
Dibromofluoromethane (Surr)	*86*		*73 - 113*	*08/29/17 05:16*	*08/29/17 09:22*	*1*
1,2-Dichloroethane-d4 (Surr)	*89*		*63 - 112*	*08/29/17 05:16*	*08/29/17 09:22*	*1*
Toluene-d8 (Surr)	*108*		*90 - 130*	*08/29/17 05:16*	*08/29/17 09:22*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**11.5**		0.1	0.1	%			08/28/17 14:40	1
Percent Solids	**88.5**		0.1	0.1	%			08/28/17 14:40	1

Client Sample ID: Wb5-6, S3C, 82517

Lab Sample ID: 180-69728-2
Date Collected: 08/25/17 13:35
Matrix: Solid
Date Received: 08/26/17 09:15
Percent Solids: 87.1

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		30	10	ug/Kg	☼	09/01/17 03:51	09/01/17 14:40	4
Acenaphthylene	**37**		30	10	ug/Kg	☼	09/01/17 03:51	09/01/17 14:40	4
Anthracene	**23**	**J**	30	11	ug/Kg	☼	09/01/17 03:51	09/01/17 14:40	4

Client Sample ID: Wb5-6, S3C, 82517 **Lab Sample ID: 180-69728-2**
Date Collected: 08/25/17 13:35 **Matrix: Solid**
Date Received: 08/26/17 09:15 **Percent Solids: 87.1**

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	**57**		30	12	ug/Kg	☼	09/01/17 03:51	09/01/17 14:40	4
Benzo[a]pyrene	**61**		30	12	ug/Kg	☼	09/01/17 03:51	09/01/17 14:40	4
Benzo[b]fluoranthene	**82**		30	13	ug/Kg	☼	09/01/17 03:51	09/01/17 14:40	4
Benzo[g,h,i]perylene	**77**		30	13	ug/Kg	☼	09/01/17 03:51	09/01/17 14:40	4
Benzo[k]fluoranthene	**31**		30	10	ug/Kg	☼	09/01/17 03:51	09/01/17 14:40	4
Chrysene	**69**		30	12	ug/Kg	☼	09/01/17 03:51	09/01/17 14:40	4
Dibenz(a,h)anthracene	**17**	**J**	30	12	ug/Kg	☼	09/01/17 03:51	09/01/17 14:40	4
Dibenzofuran	ND		150	12	ug/Kg	☼	09/01/17 03:51	09/01/17 14:40	4
2,4-Dinitrotoluene	ND		150	20	ug/Kg	☼	09/01/17 03:51	09/01/17 14:40	4
1,4-Dioxane	ND		300	22	ug/Kg	☼	09/01/17 03:51	09/01/17 14:40	4
Fluoranthene	**96**		30	12	ug/Kg	☼	09/01/17 03:51	09/01/17 14:40	4
Fluorene	ND		30	11	ug/Kg	☼	09/01/17 03:51	09/01/17 14:40	4
Hexachlorobenzene	ND		30	12	ug/Kg	☼	09/01/17 03:51	09/01/17 14:40	4
Hexachlorobutadiene	ND		30	9.3	ug/Kg	☼	09/01/17 03:51	09/01/17 14:40	4
Hexachloroethane	ND		150	11	ug/Kg	☼	09/01/17 03:51	09/01/17 14:40	4
Indeno[1,2,3-cd]pyrene	**61**		30	11	ug/Kg	☼	09/01/17 03:51	09/01/17 14:40	4
2-Methylphenol	ND		150	13	ug/Kg	☼	09/01/17 03:51	09/01/17 14:40	4
Methylphenol, 3 & 4	**17**	**J**	150	13	ug/Kg	☼	09/01/17 03:51	09/01/17 14:40	4
Naphthalene	**33**		30	11	ug/Kg	☼	09/01/17 03:51	09/01/17 14:40	4
Nitrobenzene	ND		300	11	ug/Kg	☼	09/01/17 03:51	09/01/17 14:40	4
Pentachlorophenol	ND		760	280	ug/Kg	☼	09/01/17 03:51	09/01/17 14:40	4
Phenanthrene	**48**		30	12	ug/Kg	☼	09/01/17 03:51	09/01/17 14:40	4
Phenol	ND		150	20	ug/Kg	☼	09/01/17 03:51	09/01/17 14:40	4
Pyrene	**87**		30	13	ug/Kg	☼	09/01/17 03:51	09/01/17 14:40	4
Pyridine	ND		150	14	ug/Kg	☼	09/01/17 03:51	09/01/17 14:40	4
2,4,5-Trichlorophenol	ND		150	14	ug/Kg	☼	09/01/17 03:51	09/01/17 14:40	4
2,4,6-Trichlorophenol	ND		150	13	ug/Kg	☼	09/01/17 03:51	09/01/17 14:40	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*73*		*34 - 100*	*09/01/17 03:51*	*09/01/17 14:40*	*4*
2-Fluorophenol (Surr)	*58*		*27 - 100*	*09/01/17 03:51*	*09/01/17 14:40*	*4*
Nitrobenzene-d5 (Surr)	*74*		*33 - 100*	*09/01/17 03:51*	*09/01/17 14:40*	*4*
Phenol-d5 (Surr)	*59*		*27 - 100*	*09/01/17 03:51*	*09/01/17 14:40*	*4*
Terphenyl-d14 (Surr)	*68*		*30 - 100*	*09/01/17 03:51*	*09/01/17 14:40*	*4*
2,4,6-Tribromophenol (Surr)	*59*		*20 - 107*	*09/01/17 03:51*	*09/01/17 14:40*	*4*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.019	0.010	mg/Kg	☼	09/01/17 03:55	09/03/17 00:06	1
PCB-1221	ND		0.019	0.0098	mg/Kg	☼	09/01/17 03:55	09/03/17 00:06	1
PCB-1232	ND		0.019	0.0075	mg/Kg	☼	09/01/17 03:55	09/03/17 00:06	1
PCB-1242	ND		0.019	0.015	mg/Kg	☼	09/01/17 03:55	09/03/17 00:06	1
PCB-1248	**2.1**		0.019	0.0091	mg/Kg	☼	09/01/17 03:55	09/03/17 00:06	1
PCB-1254	**0.99**		0.019	0.0083	mg/Kg	☼	09/01/17 03:55	09/03/17 00:06	1
PCB-1260	**0.13**		0.019	0.013	mg/Kg	☼	09/01/17 03:55	09/03/17 00:06	1
PCB-1262	ND		0.019	0.014	mg/Kg	☼	09/01/17 03:55	09/03/17 00:06	1
PCB-1268	ND		0.019	0.0058	mg/Kg	☼	09/01/17 03:55	09/03/17 00:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*76*		*33 - 137*	*09/01/17 03:55*	*09/03/17 00:06*	*1*

Client Sample ID: Wb5-6, S3C, 82517
Date Collected: 08/25/17 13:35
Date Received: 08/26/17 09:15

Lab Sample ID: 180-69728-2
Matrix: Solid
Percent Solids: 87.1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*78*		*33 - 137*	*09/01/17 03:55*	*09/03/17 00:06*	*1*
Tetrachloro-m-xylene (Surr)	*76*		*44 - 114*	*09/01/17 03:55*	*09/03/17 00:06*	*1*
Tetrachloro-m-xylene (Surr)	*77*		*44 - 114*	*09/01/17 03:55*	*09/03/17 00:06*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**6.0**		1.2	0.52	mg/Kg	☼	08/29/17 10:23	08/31/17 09:00	1
Barium	**94**		24	6.4	mg/Kg	☼	08/29/17 10:23	08/31/17 09:00	1
Beryllium	**0.41**	**J**	0.47	0.12	mg/Kg	☼	08/29/17 10:23	08/31/17 09:00	1
Cadmium	**0.17**	**J**	0.59	0.13	mg/Kg	☼	08/29/17 10:23	08/31/17 09:00	1
Chromium	**12**		0.59	0.15	mg/Kg	☼	08/29/17 10:23	08/31/17 09:00	1
Copper	**26**		3.0	0.91	mg/Kg	☼	08/29/17 10:23	08/31/17 09:00	1
Lead	**30**		1.2	0.39	mg/Kg	☼	08/29/17 10:23	08/31/17 09:00	1
Manganese	**400**		1.8	0.48	mg/Kg	☼	08/29/17 10:23	08/31/17 09:00	1
Nickel	**56**		4.7	1.1	mg/Kg	☼	08/29/17 10:23	08/31/17 09:00	1
Selenium	ND		1.2	0.47	mg/Kg	☼	08/29/17 10:23	08/31/17 09:00	1
Silver	ND		0.59	0.20	mg/Kg	☼	08/29/17 10:23	08/31/17 09:00	1
Zinc	**70**		2.4	1.2	mg/Kg	☼	08/29/17 10:23	08/31/17 09:00	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.084**		0.041	0.0091	mg/Kg	☼	08/29/17 09:03	08/30/17 07:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**12.9**		0.1	0.1	%			08/28/17 14:40	1
Percent Solids	**87.1**		0.1	0.1	%			08/28/17 14:40	1
Cyanide, Total	**0.22**	**J**	0.55	0.17	mg/Kg	☼	08/29/17 14:20	08/29/17 17:27	1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 180-221413/8
Matrix: Solid
Analysis Batch: 221413

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.020	0.0032	mg/Kg			08/29/17 08:44	1
Benzene	ND		0.0050	0.0020	mg/Kg			08/29/17 08:44	1
2-Butanone (MEK)	ND		0.0050	0.0029	mg/Kg			08/29/17 08:44	1
Carbon tetrachloride	ND		0.0050	0.0033	mg/Kg			08/29/17 08:44	1
Chlorobenzene	ND		0.0050	0.0016	mg/Kg			08/29/17 08:44	1
Chloroform	ND		0.0050	0.0021	mg/Kg			08/29/17 08:44	1
cis-1,2-Dichloroethene	ND		0.0050	0.0016	mg/Kg			08/29/17 08:44	1
1,2-Dichlorobenzene	ND		0.0050	0.0040	mg/Kg			08/29/17 08:44	1
1,3-Dichlorobenzene	ND		0.0050	0.0016	mg/Kg			08/29/17 08:44	1
1,4-Dichlorobenzene	ND		0.0050	0.0010	mg/Kg			08/29/17 08:44	1
1,1-Dichloroethane	ND		0.0050	0.0018	mg/Kg			08/29/17 08:44	1
1,2-Dichloroethane	ND		0.0050	0.0015	mg/Kg			08/29/17 08:44	1
1,1-Dichloroethene	ND		0.0050	0.0029	mg/Kg			08/29/17 08:44	1
Ethylbenzene	ND		0.0050	0.0022	mg/Kg			08/29/17 08:44	1
Methylene Chloride	ND		0.0050	0.0024	mg/Kg			08/29/17 08:44	1
Methyl tert-butyl ether	ND		0.0050	0.0037	mg/Kg			08/29/17 08:44	1
n-Butylbenzene	ND		0.0050	0.0038	mg/Kg			08/29/17 08:44	1
N-Propylbenzene	ND		0.0050	0.0021	mg/Kg			08/29/17 08:44	1
sec-Butylbenzene	ND		0.0050	0.0024	mg/Kg			08/29/17 08:44	1
tert-Butylbenzene	ND		0.0050	0.0018	mg/Kg			08/29/17 08:44	1
Tetrachloroethene	ND		0.0050	0.0020	mg/Kg			08/29/17 08:44	1
Toluene	ND		0.0050	0.0017	mg/Kg			08/29/17 08:44	1
trans-1,2-Dichloroethene	ND		0.0050	0.0025	mg/Kg			08/29/17 08:44	1
1,1,1-Trichloroethane	ND		0.0050	0.0025	mg/Kg			08/29/17 08:44	1
Trichloroethene	ND		0.0050	0.0015	mg/Kg			08/29/17 08:44	1
1,2,4-Trimethylbenzene	ND		0.0050	0.0013	mg/Kg			08/29/17 08:44	1
1,3,5-Trimethylbenzene	ND		0.0050	0.0017	mg/Kg			08/29/17 08:44	1
Vinyl chloride	ND		0.0050	0.0037	mg/Kg			08/29/17 08:44	1
Xylenes, Total	ND		0.010	0.0043	mg/Kg			08/29/17 08:44	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*73 - 113*		*08/29/17 08:44*	*1*
Dibromofluoromethane (Surr)	*86*		*73 - 113*		*08/29/17 08:44*	*1*
1,2-Dichloroethane-d4 (Surr)	*109*		*63 - 112*		*08/29/17 08:44*	*1*
Toluene-d8 (Surr)	*98*		*90 - 130*		*08/29/17 08:44*	*1*

Lab Sample ID: LCS 180-221413/3
Matrix: Solid
Analysis Batch: 221413

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0400	0.0357		mg/Kg		89	36 - 150
Benzene	0.0400	0.0368		mg/Kg		92	78 - 118
2-Butanone (MEK)	0.0400	0.0317		mg/Kg		79	30 - 150
Carbon tetrachloride	0.0400	0.0452		mg/Kg		113	60 - 137
Chlorobenzene	0.0400	0.0371		mg/Kg		93	78 - 118
Chloroform	0.0400	0.0412		mg/Kg		103	68 - 124
cis-1,2-Dichloroethene	0.0400	0.0370		mg/Kg		92	71 - 120

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 180-221413/3
Matrix: Solid
Analysis Batch: 221413

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichlorobenzene	0.0400	0.0363		mg/Kg		91	78 - 118
1,3-Dichlorobenzene	0.0400	0.0357		mg/Kg		89	78 - 118
1,4-Dichlorobenzene	0.0400	0.0365		mg/Kg		91	78 - 118
1,1-Dichloroethane	0.0400	0.0410		mg/Kg		103	67 - 129
1,2-Dichloroethane	0.0400	0.0472		mg/Kg		118	67 - 123
1,1-Dichloroethene	0.0400	0.0382		mg/Kg		95	59 - 128
Ethylbenzene	0.0400	0.0368		mg/Kg		92	78 - 118
Methylene Chloride	0.0400	0.0374		mg/Kg		94	68 - 120
Methyl tert-butyl ether	0.0400	0.0415		mg/Kg		104	73 - 121
n-Butylbenzene	0.0400	0.0413		mg/Kg		103	71 - 132
N-Propylbenzene	0.0400	0.0371		mg/Kg		93	72 - 126
sec-Butylbenzene	0.0400	0.0392		mg/Kg		98	80 - 126
tert-Butylbenzene	0.0400	0.0391		mg/Kg		98	80 - 122
Tetrachloroethene	0.0400	0.0342		mg/Kg		85	78 - 118
Toluene	0.0400	0.0382		mg/Kg		95	79 - 121
trans-1,2-Dichloroethene	0.0400	0.0394		mg/Kg		99	71 - 123
1,1,1-Trichloroethane	0.0400	0.0464		mg/Kg		116	69 - 135
Trichloroethene	0.0400	0.0346		mg/Kg		86	76 - 120
1,2,4-Trimethylbenzene	0.0400	0.0385		mg/Kg		96	77 - 122
1,3,5-Trimethylbenzene	0.0400	0.0386		mg/Kg		96	78 - 122
Vinyl chloride	0.0400	0.0364		mg/Kg		91	53 - 148
Xylenes, Total	0.0800	0.0729		mg/Kg		91	78 - 118

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*95*		*73 - 113*
Dibromofluoromethane (Surr)	*93*		*73 - 113*
1,2-Dichloroethane-d4 (Surr)	*111*		*63 - 112*
Toluene-d8 (Surr)	*94*		*90 - 130*

Lab Sample ID: 180-69728-1 MS
Matrix: Solid
Analysis Batch: 221413

Client Sample ID: Wb5-6, S3A, 82517
Prep Type: Total/NA
Prep Batch: 221423

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	ND		0.0474	0.0256		mg/Kg	☼	54	36 - 150
Benzene	ND		0.0474	0.0461		mg/Kg	☼	97	78 - 118
2-Butanone (MEK)	ND		0.0474	0.0221		mg/Kg	☼	47	30 - 150
Carbon tetrachloride	ND		0.0474	0.0613		mg/Kg	☼	129	60 - 137
Chlorobenzene	ND		0.0474	0.0480		mg/Kg	☼	101	78 - 118
Chloroform	ND		0.0474	0.0499		mg/Kg	☼	105	68 - 124
cis-1,2-Dichloroethene	ND		0.0474	0.0457		mg/Kg	☼	96	71 - 120
1,2-Dichlorobenzene	ND		0.0474	0.0438		mg/Kg	☼	92	78 - 118
1,3-Dichlorobenzene	ND		0.0474	0.0468		mg/Kg	☼	99	78 - 118
1,4-Dichlorobenzene	ND		0.0474	0.0466		mg/Kg	☼	98	78 - 118
1,1-Dichloroethane	ND		0.0474	0.0518		mg/Kg	☼	109	67 - 129
1,2-Dichloroethane	ND		0.0474	0.0468		mg/Kg	☼	99	67 - 123
1,1-Dichloroethene	ND		0.0474	0.0495		mg/Kg	☼	104	59 - 128
Ethylbenzene	ND		0.0474	0.0502		mg/Kg	☼	106	78 - 118

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 180-69728-1 MS
Matrix: Solid
Analysis Batch: 221413

Client Sample ID: Wb5-6, S3A, 82517
Prep Type: Total/NA
Prep Batch: 221423

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Methylene Chloride	ND		0.0474	0.0420		mg/Kg	☼	88	68 - 120
Methyl tert-butyl ether	ND		0.0474	0.0379		mg/Kg	☼	80	73 - 121
n-Butylbenzene	ND		0.0474	0.0576		mg/Kg	☼	121	71 - 132
N-Propylbenzene	ND		0.0474	0.0553		mg/Kg	☼	117	72 - 126
sec-Butylbenzene	ND		0.0474	0.0574		mg/Kg	☼	121	80 - 126
tert-Butylbenzene	ND		0.0474	0.0575		mg/Kg	☼	121	80 - 122
Tetrachloroethene	ND		0.0474	0.0474		mg/Kg	☼	100	78 - 118
Toluene	ND		0.0474	0.0516		mg/Kg	☼	109	79 - 121
trans-1,2-Dichloroethene	ND		0.0474	0.0513		mg/Kg	☼	108	71 - 123
1,1,1-Trichloroethane	ND		0.0474	0.0619		mg/Kg	☼	131	69 - 135
Trichloroethene	ND		0.0474	0.0451		mg/Kg	☼	95	76 - 120
1,2,4-Trimethylbenzene	ND		0.0474	0.0547		mg/Kg	☼	115	77 - 122
1,3,5-Trimethylbenzene	ND		0.0474	0.0564		mg/Kg	☼	119	78 - 122
Vinyl chloride	ND		0.0474	0.0478		mg/Kg	☼	101	53 - 148
Xylenes, Total	ND		0.0948	0.0982		mg/Kg	☼	104	78 - 118

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*95*		*73 - 113*
Dibromofluoromethane (Surr)	*92*		*73 - 113*
1,2-Dichloroethane-d4 (Surr)	*91*		*63 - 112*
Toluene-d8 (Surr)	*106*		*90 - 130*

Lab Sample ID: 180-69728-1 MSD
Matrix: Solid
Analysis Batch: 221413

Client Sample ID: Wb5-6, S3A, 82517
Prep Type: Total/NA
Prep Batch: 221423

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	ND		0.0492	0.0270		mg/Kg	☼	55	36 - 150	5	35
Benzene	ND		0.0492	0.0474		mg/Kg	☼	96	78 - 118	3	15
2-Butanone (MEK)	ND		0.0492	0.0246		mg/Kg	☼	50	30 - 150	11	35
Carbon tetrachloride	ND		0.0492	0.0637		mg/Kg	☼	129	60 - 137	4	21
Chlorobenzene	ND		0.0492	0.0480		mg/Kg	☼	97	78 - 118	0	15
Chloroform	ND		0.0492	0.0519		mg/Kg	☼	105	68 - 124	4	15
cis-1,2-Dichloroethene	ND		0.0492	0.0469		mg/Kg	☼	95	71 - 120	3	15
1,2-Dichlorobenzene	ND		0.0492	0.0451		mg/Kg	☼	92	78 - 118	3	15
1,3-Dichlorobenzene	ND		0.0492	0.0474		mg/Kg	☼	96	78 - 118	1	15
1,4-Dichlorobenzene	ND		0.0492	0.0473		mg/Kg	☼	96	78 - 118	1	15
1,1-Dichloroethane	ND		0.0492	0.0537		mg/Kg	☼	109	67 - 129	4	15
1,2-Dichloroethane	ND		0.0492	0.0495		mg/Kg	☼	101	67 - 123	6	15
1,1-Dichloroethene	ND		0.0492	0.0518		mg/Kg	☼	105	59 - 128	5	17
Ethylbenzene	ND		0.0492	0.0507		mg/Kg	☼	103	78 - 118	1	15
Methylene Chloride	ND		0.0492	0.0439		mg/Kg	☼	89	68 - 120	5	19
Methyl tert-butyl ether	ND		0.0492	0.0404		mg/Kg	☼	82	73 - 121	7	24
n-Butylbenzene	ND		0.0492	0.0573		mg/Kg	☼	116	71 - 132	1	16
N-Propylbenzene	ND		0.0492	0.0559		mg/Kg	☼	114	72 - 126	1	24
sec-Butylbenzene	ND		0.0492	0.0568		mg/Kg	☼	115	80 - 126	1	18
tert-Butylbenzene	ND		0.0492	0.0575		mg/Kg	☼	117	80 - 122	0	19
Tetrachloroethene	ND		0.0492	0.0477		mg/Kg	☼	97	78 - 118	1	20

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 180-69728-1 MSD
Matrix: Solid
Analysis Batch: 221413

Client Sample ID: Wb5-6, S3A, 82517
Prep Type: Total/NA
Prep Batch: 221423

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Toluene	ND		0.0492	0.0516		mg/Kg	☼	105	79 - 121	0	18
trans-1,2-Dichloroethene	ND		0.0492	0.0523		mg/Kg	☼	106	71 - 123	2	15
1,1,1-Trichloroethane	ND		0.0492	0.0634		mg/Kg	☼	129	69 - 135	2	22
Trichloroethene	ND		0.0492	0.0462		mg/Kg	☼	94	76 - 120	2	15
1,2,4-Trimethylbenzene	ND		0.0492	0.0550		mg/Kg	☼	112	77 - 122	0	16
1,3,5-Trimethylbenzene	ND		0.0492	0.0568		mg/Kg	☼	115	78 - 122	1	17
Vinyl chloride	ND		0.0492	0.0497		mg/Kg	☼	101	53 - 148	4	35
Xylenes, Total	ND		0.0984	0.0992		mg/Kg	☼	101	78 - 118	1	15

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*90*		*73 - 113*
Dibromofluoromethane (Surr)	*90*		*73 - 113*
1,2-Dichloroethane-d4 (Surr)	*90*		*63 - 112*
Toluene-d8 (Surr)	*99*		*90 - 130*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Lab Sample ID: MB 180-221762/1-A
Matrix: Solid
Analysis Batch: 221833

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 221762

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		3.4	1.1	ug/Kg		09/01/17 03:51	09/01/17 12:53	1
Acenaphthylene	ND		3.4	1.1	ug/Kg		09/01/17 03:51	09/01/17 12:53	1
Anthracene	ND		3.4	1.2	ug/Kg		09/01/17 03:51	09/01/17 12:53	1
Benzo[a]anthracene	ND		3.4	1.3	ug/Kg		09/01/17 03:51	09/01/17 12:53	1
Benzo[a]pyrene	ND		3.4	1.4	ug/Kg		09/01/17 03:51	09/01/17 12:53	1
Benzo[b]fluoranthene	ND		3.4	1.4	ug/Kg		09/01/17 03:51	09/01/17 12:53	1
Benzo[g,h,i]perylene	ND		3.4	1.4	ug/Kg		09/01/17 03:51	09/01/17 12:53	1
Benzo[k]fluoranthene	ND		3.4	1.2	ug/Kg		09/01/17 03:51	09/01/17 12:53	1
Chrysene	ND		3.4	1.3	ug/Kg		09/01/17 03:51	09/01/17 12:53	1
Dibenz(a,h)anthracene	ND		3.4	1.4	ug/Kg		09/01/17 03:51	09/01/17 12:53	1
Dibenzofuran	ND		17	1.3	ug/Kg		09/01/17 03:51	09/01/17 12:53	1
2,4-Dinitrotoluene	ND		17	2.2	ug/Kg		09/01/17 03:51	09/01/17 12:53	1
1,4-Dioxane	ND		33	2.5	ug/Kg		09/01/17 03:51	09/01/17 12:53	1
Fluoranthene	ND		3.4	1.3	ug/Kg		09/01/17 03:51	09/01/17 12:53	1
Fluorene	ND		3.4	1.2	ug/Kg		09/01/17 03:51	09/01/17 12:53	1
Hexachlorobenzene	ND		3.4	1.3	ug/Kg		09/01/17 03:51	09/01/17 12:53	1
Hexachlorobutadiene	ND		3.4	1.1	ug/Kg		09/01/17 03:51	09/01/17 12:53	1
Hexachloroethane	ND		17	1.2	ug/Kg		09/01/17 03:51	09/01/17 12:53	1
Indeno[1,2,3-cd]pyrene	ND		3.4	1.3	ug/Kg		09/01/17 03:51	09/01/17 12:53	1
2-Methylphenol	ND		17	1.5	ug/Kg		09/01/17 03:51	09/01/17 12:53	1
Methylphenol, 3 & 4	ND		17	1.5	ug/Kg		09/01/17 03:51	09/01/17 12:53	1
Naphthalene	ND		3.4	1.2	ug/Kg		09/01/17 03:51	09/01/17 12:53	1
Nitrobenzene	ND		33	1.3	ug/Kg		09/01/17 03:51	09/01/17 12:53	1
Pentachlorophenol	ND		85	32	ug/Kg		09/01/17 03:51	09/01/17 12:53	1
Phenanthrene	ND		3.4	1.4	ug/Kg		09/01/17 03:51	09/01/17 12:53	1
Phenol	ND		17	2.3	ug/Kg		09/01/17 03:51	09/01/17 12:53	1

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: MB 180-221762/1-A
Matrix: Solid
Analysis Batch: 221833

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 221762

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyrene	ND		3.4	1.5	ug/Kg		09/01/17 03:51	09/01/17 12:53	1
Pyridine	ND		17	1.6	ug/Kg		09/01/17 03:51	09/01/17 12:53	1
2,4,5-Trichlorophenol	ND		17	1.6	ug/Kg		09/01/17 03:51	09/01/17 12:53	1
2,4,6-Trichlorophenol	ND		17	1.5	ug/Kg		09/01/17 03:51	09/01/17 12:53	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*79*		*34 - 100*	*09/01/17 03:51*	*09/01/17 12:53*	*1*
2-Fluorophenol (Surr)	*78*		*27 - 100*	*09/01/17 03:51*	*09/01/17 12:53*	*1*
Nitrobenzene-d5 (Surr)	*84*		*33 - 100*	*09/01/17 03:51*	*09/01/17 12:53*	*1*
Phenol-d5 (Surr)	*83*		*27 - 100*	*09/01/17 03:51*	*09/01/17 12:53*	*1*
Terphenyl-d14 (Surr)	*84*		*30 - 100*	*09/01/17 03:51*	*09/01/17 12:53*	*1*
2,4,6-Tribromophenol (Surr)	*75*		*20 - 107*	*09/01/17 03:51*	*09/01/17 12:53*	*1*

Lab Sample ID: LCS 180-221762/2-A
Matrix: Solid
Analysis Batch: 221833

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 221762

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	333	259		ug/Kg		78	43 - 100
Acenaphthylene	333	260		ug/Kg		78	43 - 100
Anthracene	333	281		ug/Kg		84	48 - 100
Benzo[a]anthracene	333	267		ug/Kg		80	46 - 100
Benzo[a]pyrene	333	279		ug/Kg		84	46 - 100
Benzo[b]fluoranthene	333	259		ug/Kg		78	42 - 100
Benzo[g,h,i]perylene	333	278		ug/Kg		84	45 - 100
Benzo[k]fluoranthene	333	277		ug/Kg		83	45 - 100
Chrysene	333	259		ug/Kg		78	47 - 100
Dibenz(a,h)anthracene	333	276		ug/Kg		83	47 - 100
Dibenzofuran	333	255		ug/Kg		77	48 - 100
2,4-Dinitrotoluene	333	273		ug/Kg		82	45 - 106
1,4-Dioxane	333	265		ug/Kg		80	40 - 115
Fluoranthene	333	257		ug/Kg		77	47 - 100
Fluorene	333	258		ug/Kg		77	45 - 100
Hexachlorobenzene	333	266		ug/Kg		80	45 - 104
Hexachlorobutadiene	333	241		ug/Kg		72	41 - 101
Hexachloroethane	333	254		ug/Kg		76	46 - 100
Indeno[1,2,3-cd]pyrene	333	282		ug/Kg		84	46 - 100
2-Methylphenol	333	252		ug/Kg		76	46 - 100
Methylphenol, 3 & 4	333	243		ug/Kg		73	46 - 100
Naphthalene	333	255		ug/Kg		77	46 - 100
Nitrobenzene	333	278		ug/Kg		83	43 - 100
Pentachlorophenol	667	412		ug/Kg		62	25 - 114
Phenanthrene	333	271		ug/Kg		81	46 - 100
Phenol	333	258		ug/Kg		77	46 - 100
Pyrene	333	290		ug/Kg		87	41 - 100
Pyridine	667	549		ug/Kg		82	10 - 141
2,4,5-Trichlorophenol	333	243		ug/Kg		73	43 - 103
2,4,6-Trichlorophenol	333	258		ug/Kg		77	45 - 104

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	73		34 - 100
2-Fluorophenol (Surr)	73		27 - 100
Nitrobenzene-d5 (Surr)	77		33 - 100
Phenol-d5 (Surr)	76		27 - 100
Terphenyl-d14 (Surr)	81		30 - 100
2,4,6-Tribromophenol (Surr)	72		20 - 107

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 180-221764/1-C
Matrix: Solid
Analysis Batch: 221876

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 221764

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.017	0.0088	mg/Kg		09/01/17 03:55	09/02/17 16:47	1
PCB-1221	ND		0.017	0.0086	mg/Kg		09/01/17 03:55	09/02/17 16:47	1
PCB-1232	ND		0.017	0.0066	mg/Kg		09/01/17 03:55	09/02/17 16:47	1
PCB-1242	ND		0.017	0.013	mg/Kg		09/01/17 03:55	09/02/17 16:47	1
PCB-1248	ND		0.017	0.0080	mg/Kg		09/01/17 03:55	09/02/17 16:47	1
PCB-1254	ND		0.017	0.0073	mg/Kg		09/01/17 03:55	09/02/17 16:47	1
PCB-1260	ND		0.017	0.011	mg/Kg		09/01/17 03:55	09/02/17 16:47	1
PCB-1262	ND		0.017	0.012	mg/Kg		09/01/17 03:55	09/02/17 16:47	1
PCB-1268	ND		0.017	0.0051	mg/Kg		09/01/17 03:55	09/02/17 16:47	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	96		33 - 137	09/01/17 03:55	09/02/17 16:47	1
DCB Decachlorobiphenyl (Surr)	112		33 - 137	09/01/17 03:55	09/02/17 16:47	1
Tetrachloro-m-xylene (Surr)	94		44 - 114	09/01/17 03:55	09/02/17 16:47	1
Tetrachloro-m-xylene (Surr)	98		44 - 114	09/01/17 03:55	09/02/17 16:47	1

Lab Sample ID: LCS 180-221764/2-C
Matrix: Solid
Analysis Batch: 221876

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 221764

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			1.33	1.35		mg/Kg		101	46 - 122		
PCB-1260			1.33	1.31		mg/Kg		98	51 - 119		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	92		33 - 137
DCB Decachlorobiphenyl (Surr)	104		33 - 137
Tetrachloro-m-xylene (Surr)	96		44 - 114
Tetrachloro-m-xylene (Surr)	98		44 - 114

Lab Sample ID: LCSD 180-221764/3-C
Matrix: Solid
Analysis Batch: 221876

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 221764

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016			1.33	1.35		mg/Kg		101	46 - 122	0	23
PCB-1260			1.33	1.35		mg/Kg		102	51 - 119	3	17

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCSD 180-221764/3-C
Matrix: Solid
Analysis Batch: 221876

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 221764

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*93*		*33 - 137*
DCB Decachlorobiphenyl (Surr)	*104*		*33 - 137*
Tetrachloro-m-xylene (Surr)	*97*		*44 - 114*
Tetrachloro-m-xylene (Surr)	*97*		*44 - 114*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 180-221454/1-A
Matrix: Solid
Analysis Batch: 221716

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 221454

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		1.0	0.44	mg/Kg		08/29/17 10:23	08/31/17 08:50	1
Barium	ND		20	5.4	mg/Kg		08/29/17 10:23	08/31/17 08:50	1
Beryllium	ND		0.40	0.10	mg/Kg		08/29/17 10:23	08/31/17 08:50	1
Cadmium	ND		0.50	0.11	mg/Kg		08/29/17 10:23	08/31/17 08:50	1
Chromium	ND		0.50	0.13	mg/Kg		08/29/17 10:23	08/31/17 08:50	1
Copper	ND		2.5	0.77	mg/Kg		08/29/17 10:23	08/31/17 08:50	1
Lead	ND		1.0	0.33	mg/Kg		08/29/17 10:23	08/31/17 08:50	1
Manganese	ND		1.5	0.41	mg/Kg		08/29/17 10:23	08/31/17 08:50	1
Nickel	ND		4.0	0.90	mg/Kg		08/29/17 10:23	08/31/17 08:50	1
Selenium	ND		1.0	0.40	mg/Kg		08/29/17 10:23	08/31/17 08:50	1
Silver	ND		0.50	0.17	mg/Kg		08/29/17 10:23	08/31/17 08:50	1
Zinc	ND		2.0	1.0	mg/Kg		08/29/17 10:23	08/31/17 08:50	1

Lab Sample ID: LCS 180-221454/2-A
Matrix: Solid
Analysis Batch: 221716

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 221454

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	50.0	48.3		mg/Kg		97	80 - 120
Barium	200	196		mg/Kg		98	80 - 120
Beryllium	5.00	5.05		mg/Kg		101	80 - 120
Cadmium	5.00	4.89		mg/Kg		98	80 - 120
Chromium	20.0	19.5		mg/Kg		98	80 - 120
Copper	25.0	24.7		mg/Kg		99	80 - 120
Lead	50.0	47.2		mg/Kg		94	80 - 120
Manganese	50.0	48.5		mg/Kg		97	80 - 120
Nickel	50.0	48.1		mg/Kg		96	80 - 120
Selenium	50.0	48.1		mg/Kg		96	80 - 120
Silver	5.00	4.93		mg/Kg		99	80 - 120
Zinc	50.0	49.3		mg/Kg		99	80 - 120

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 180-221438/1-A
Matrix: Solid
Analysis Batch: 221625

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 221438

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.033	0.0074	mg/Kg		08/29/17 09:03	08/30/17 07:13	1

Lab Sample ID: LCS 180-221438/2-A
Matrix: Solid
Analysis Batch: 221625

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 221438

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.417	0.476		mg/Kg		114	80 - 120

Method: 9014 - Cyanide

Lab Sample ID: MB 180-221468/4-A
Matrix: Solid
Analysis Batch: 221627

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 221468

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.50	0.15	mg/Kg		08/29/17 14:20	08/29/17 17:06	1

Lab Sample ID: HLCS 180-221468/2-A
Matrix: Solid
Analysis Batch: 221627

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 221468

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.250	0.246		mg/Kg		98	90 - 110

Lab Sample ID: LCS 180-221468/3-A
Matrix: Solid
Analysis Batch: 221627

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 221468

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	151	136		mg/Kg		90	38 - 162

Lab Sample ID: LLCS 180-221468/1-A
Matrix: Solid
Analysis Batch: 221627

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 221468

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.0500	0.0483		mg/Kg		97	90 - 110

QC Association Summary

Client: Geosyntec Consultants, Inc.
Project/Site: Former Sperry Remington Site - North IRM

TestAmerica Job ID: 180-69728-1

GC/MS VOA

Analysis Batch: 221413

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-69728-1	Wb5-6, S3A, 82517	Total/NA	Solid	8260C	221423
MB 180-221413/8	Method Blank	Total/NA	Solid	8260C	
LCS 180-221413/3	Lab Control Sample	Total/NA	Solid	8260C	
180-69728-1 MS	Wb5-6, S3A, 82517	Total/NA	Solid	8260C	221423
180-69728-1 MSD	Wb5-6, S3A, 82517	Total/NA	Solid	8260C	221423

Prep Batch: 221423

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-69728-1	Wb5-6, S3A, 82517	Total/NA	Solid	5035	
180-69728-1 MS	Wb5-6, S3A, 82517	Total/NA	Solid	5035	
180-69728-1 MSD	Wb5-6, S3A, 82517	Total/NA	Solid	5035	

GC/MS Semi VOA

Prep Batch: 221762

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-69728-2	Wb5-6, S3C, 82517	Total/NA	Solid	3541	
MB 180-221762/1-A	Method Blank	Total/NA	Solid	3541	
LCS 180-221762/2-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 221833

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-69728-2	Wb5-6, S3C, 82517	Total/NA	Solid	8270D LL	221762
MB 180-221762/1-A	Method Blank	Total/NA	Solid	8270D LL	221762
LCS 180-221762/2-A	Lab Control Sample	Total/NA	Solid	8270D LL	221762

GC Semi VOA

Prep Batch: 221764

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-69728-2	Wb5-6, S3C, 82517	Total/NA	Solid	3541	
MB 180-221764/1-C	Method Blank	Total/NA	Solid	3541	
LCS 180-221764/2-C	Lab Control Sample	Total/NA	Solid	3541	
LCSD 180-221764/3-C	Lab Control Sample Dup	Total/NA	Solid	3541	

Cleanup Batch: 221840

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-69728-2	Wb5-6, S3C, 82517	Total/NA	Solid	3665A	221764
MB 180-221764/1-C	Method Blank	Total/NA	Solid	3665A	221764
LCS 180-221764/2-C	Lab Control Sample	Total/NA	Solid	3665A	221764
LCSD 180-221764/3-C	Lab Control Sample Dup	Total/NA	Solid	3665A	221764

Cleanup Batch: 221841

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-69728-2	Wb5-6, S3C, 82517	Total/NA	Solid	3660B	221840
MB 180-221764/1-C	Method Blank	Total/NA	Solid	3660B	221840
LCS 180-221764/2-C	Lab Control Sample	Total/NA	Solid	3660B	221840
LCSD 180-221764/3-C	Lab Control Sample Dup	Total/NA	Solid	3660B	221840

GC Semi VOA (Continued)

Analysis Batch: 221876

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-69728-2	Wb5-6, S3C, 82517	Total/NA	Solid	8082A	221841
MB 180-221764/1-C	Method Blank	Total/NA	Solid	8082A	221841
LCS 180-221764/2-C	Lab Control Sample	Total/NA	Solid	8082A	221841
LCSD 180-221764/3-C	Lab Control Sample Dup	Total/NA	Solid	8082A	221841

Metals

Prep Batch: 221438

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-69728-2	Wb5-6, S3C, 82517	Total/NA	Solid	7471B	
MB 180-221438/1-A	Method Blank	Total/NA	Solid	7471B	
LCS 180-221438/2-A	Lab Control Sample	Total/NA	Solid	7471B	

Prep Batch: 221454

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-69728-2	Wb5-6, S3C, 82517	Total/NA	Solid	3050B	
MB 180-221454/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 180-221454/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Analysis Batch: 221625

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-69728-2	Wb5-6, S3C, 82517	Total/NA	Solid	7471B	221438
MB 180-221438/1-A	Method Blank	Total/NA	Solid	7471B	221438
LCS 180-221438/2-A	Lab Control Sample	Total/NA	Solid	7471B	221438

Analysis Batch: 221716

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-69728-2	Wb5-6, S3C, 82517	Total/NA	Solid	6010C	221454
MB 180-221454/1-A	Method Blank	Total/NA	Solid	6010C	221454
LCS 180-221454/2-A	Lab Control Sample	Total/NA	Solid	6010C	221454

General Chemistry

Analysis Batch: 221368

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-69728-1	Wb5-6, S3A, 82517	Total/NA	Solid	2540G	
180-69728-2	Wb5-6, S3C, 82517	Total/NA	Solid	2540G	

Prep Batch: 221468

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-69728-2	Wb5-6, S3C, 82517	Total/NA	Solid	9010C	
MB 180-221468/4-A	Method Blank	Total/NA	Solid	9010C	
HLCS 180-221468/2-A	Lab Control Sample	Total/NA	Solid	9010C	
LCS 180-221468/3-A	Lab Control Sample	Total/NA	Solid	9010C	
LLCS 180-221468/1-A	Lab Control Sample	Total/NA	Solid	9010C	

Analysis Batch: 221627

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-69728-2	Wb5-6, S3C, 82517	Total/NA	Solid	9014	221468
MB 180-221468/4-A	Method Blank	Total/NA	Solid	9014	221468

General Chemistry (Continued)

Analysis Batch: 221627 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
HLCS 180-221468/2-A	Lab Control Sample	Total/NA	Solid	9014	221468
LCS 180-221468/3-A	Lab Control Sample	Total/NA	Solid	9014	221468
LLCS 180-221468/1-A	Lab Control Sample	Total/NA	Solid	9014	221468

TestAmerica Pittsburgh
301 Alpha Drive RIDC Park
Pittsburgh, PA 15238
Phone (412) 963-7058 Fax (412) 963-2468

Chain of Custody Record

180-69728 Chain of Custody

Client Information	Sampler: Ashwin Ranna	Lab PM: Dunlap, David A		
Client Contact: Ashwin Ranna Aron Krasnopoler	Phone: 412 567 4758	E-Mail: david.dunlap@testamericainc.com		Page 1 of 1
Company: Geosyntec Consultants, Inc.		**Analysis Requested**		Job #:
Address: Penn Center West One, Suite 402 1 Penn Center West Drive	Due Date Requested:			**Preservation Codes:** A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
City: Pittsburgh	TAT Requested (days): 10 Day			
State, Zip: PA, 15276				
Phone:	PO #: MN0832B			Other:
Email: aranna@geosyntec.com; akrasnopoler@geosyntec.com	WO #:			
Project Name: Former Sperry Remington Site - North IRM	Project #: 18013464			
Site:	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - VOA-Select List	6010C, 7471B, 9014 - Select ICP Metals, Mercury, Cyanide	8082A, 8270D, PCBs, Select BNA	8260C - VOA-Select List (Trip Blanks only)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	A		
WB5-6 S3f 82517	8.25.2017	1330	G	Solid	N	Y	X				2	Rush Perform MS/MSD
WB5-6 S3C 82517	8.25.2017	1335	C	Solid	N	N		X	X		2	Rush
				Solid								
				Solid								
				Solid								
				Solid								
				Solid								
				Solid								
				Solid								
				Solid								
				Solid								
				Solid								

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☑ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Ashwin Ranna	8.25.2017 1700	Geosyntec	Denise Watson	8-26-17 9/5	TAP
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Login Sample Receipt Checklist

Client: Geosyntec Consultants, Inc.

Job Number: 180-69728-1

Login Number: 69728
List Number: 1
Creator: Watson, Debbie

List Source: TestAmerica Pittsburgh

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Appendix L

Data Validation Reports of Post Excavation Confirmation Samples

Geosyntec consultants

180A Market Place Blvd.
Knoxville, TN 37922
PH 865.330.0037
www.geosyntec.com

Memorandum

Date:	11 July 2017
To:	Aron Krasnopoler
From:	Mary Tyler
CC:	J. Caprio
Subject:	**Stage 2A Data Validation - Level II Data Deliverable, ESC Lab Sciences Sample Delivery Group # L919054**

SITE: Former Sperry Remington Site-North

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of twelve solid samples, collected June 27, 2017, as part of the Former Sperry Remington Site-North soil import request. The analyses were performed at ESC Lab Sciences, Mount Juliet, Tennessee. The samples were analyzed for the following tests:

- Volatile Organic Compounds (VOCs) by EPA Methods 5035/8260C
- Semivolatile Organic Compounds (SVOCs) by EPA Methods 3546/8270D
- Organochlorine Pesticides by EPA Methods 3546/8081
- Polychlorinated Biphenyls (PCBs) by EPA Methods 3546/8082
- Metals by EPA Methods 3050B/6010B
- Trivalent Chromium by Calculation
- Mercury by EPA Method 7471A
- Hexavalent Chromium by EPA Methods 3060A/7196A
- Total Cyanide by EPA Method 9012B
- Total Solids by Standard Method 2540G

EXECUTIVE SUMMARY

The samples were handled, prepared, and measured in the same manner under similar prescribed conditions.

Overall, based on this Stage 2A data validation covering the quality control (QC) parameters listed below, the data as qualified are usable for meeting project objectives, with the following exception. The nondetect benzidine results were R qualified as rejected due to no laboratory control

sample/laboratory control sample duplicate (LCS/LCSD) recoveries (0%) and professional and technical judgment.

The remaining qualified data should be used within the limitations of the qualification.

The data were validated based on the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review, January 2017 (EPA 540-R-2017-002), USEPA Contract Laboratory Program National Functional Guidelines for Superfund Inorganic Methods Data Review, January 2017 (EPA 540-R-2017-001), the pertinent methods referenced by the laboratory report and professional and technical judgment.

The following samples were analyzed and validated at Stage 2A level in the data set:

Laboratory ID	Client ID
L919054-01	BP-1000-2000-COMP
L919054-02	BP-2000-3000-COMP
L919054-03	BP-3000-4000-COMP
L919054-04	BP-4000-5000-COMP
L919054-05	BP-1000-2000-GRAB #1
L919054-06	BP-1000-2000-GRAB #2

Laboratory ID	Client ID
L919054-07	BP-2000-3000-GRAB #1
L919054-08	BP-2000-3000-GRAB #2
L919054-09	BP-3000-4000-GRAB #1
L919054-10	BP-3000-4000-GRAB #2
L919054-11	BP-4000-5000-GRAB #1
L919054-12	BP-4000-5000-GRAB #2

The samples were received at the laboratory at 1.3^{o}C, within the criteria of 0$\leq$6°C. No sample preservation issues were noted by the laboratory.

The chain of custody (COC) had a note that indicated two trip blanks were sent in with the samples; the trip blank IDs were not listed on the COCs for analysis and trip blank results were not reported. Additional information from the laboratory indicated that trip blanks are sent to the field with the empty sample containers; analysis is performed if indicated on the COC.

The solids data, used to report the samples on a dry weight basis, were not validated.

1.0 VOLATILE ORGANIC COMPOUNDS

The samples were analyzed for VOCs by EPA methods 5035/8260B.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

✓ Overall Assessment
✓ Holding Times

⊗ Method Blank
✓ Matrix Spike/Matrix Spike Duplicate
✓ Laboratory Control Sample
✓ Surrogates
✓ Trip Blank
✓ Field Duplicate
✓ Sensitivity
⊗ Electronic Data Deliverable Review

1.1 Overall Assessment

The VOC data reported in this data set are considered usable for meeting project objectives. The analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this data set is 100%.

The nondetect results for acetone, 1,2-dibromo-3-chloropropane, 2-butanone and 4-methyl-2-pentanone were flagged with J0, indicating that the continuing calibration verification (CCV) percent differences (%D) were high, outside laboratory specified acceptance criteria. Additional information was sent by the laboratory with the specific %D results for the compounds; the biases in the CCV for these compounds were high. Therefore, since these four compounds were not detected in the associated samples, no qualifications were applied to the data.

1.2 Holding Times

The holding time for the VOC analysis of a preserved solid sample is 14 days from sample collection to analysis. The holding times were met for the sample analyses.

1.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch R3230983). VOCs were not detected in the method blank above the method detection limits (MDLs), with the following exception.

1,2,3-Trichlorobenzene was detected at an estimated concentration, greater than the MDL and less than the (RL). Therefore, the estimated 1,2,3-trichlorobenzene concentration in sample BP-1000-2000-GRAB #1 was U qualified as not detected at the RL.

Sample ID	Compound	Laboratory Result (mg/kg)	Laboratory Flag	Validation Result (mg/kg)	Validation Qualifier*	Reason Code**
BP-1000-2000-GRAB #1	1,2,3-Trichlorobenzene	0.000714	B J	0.00103	U	3

mg/kg-milligrams per kilogram
J-laboratory flag indicating that the identification of the analyte is acceptable; the reported value is an estimate
B- laboratory flag indicating that the same analyte is found in the associated blank
* Validation qualifiers are defined in Attachment 1 at the end of this report
**Reason codes are defined in Attachment 2 at the end of this report

1.4 Matrix Spike/Matrix Spike Duplicate (MS/MSD)

MS/MSD pairs were not reported.

1.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS/LCSD pair was reported. The recovery and relative percent difference (RPD) results were within the laboratory specified acceptance criteria, with the following exceptions.

The LCS recovery of trichlorofluoromethane and the LCSD recoveries of dichlorodifluoromethane, 1,1-dichloroethene and 1,1,2-trichlorotrifluoroethane were high, outside laboratory specified acceptance criteria. Since these four compounds were not detected in the associated samples, no qualifications were applied to the data.

1.6 Surrogates

Acceptable surrogate recoveries were reported.

1.7 Trip Blank

A trip blank did not accompany the samples.

1.8 Field Duplicate

Field duplicates were not collected with the sample set.

1.9 Sensitivity

The samples were reported to the MDLs. No elevated non-detect results were reported.

The MDLs were at or below the NYSDEC DER10 App 5 Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010 listed in the electronic data deliverable (EDD). It was noted that no NYSDEC constituent levels were listed in the EDD for the following compounds:

Acrylonitrile
Bromobenzene
Bromodichloromethane
Bromoform
Bromomethane
Chlorodibromomethane
Chloroethane
Chloromethane
2-Chlorotoluene
4- Chlorotoluene
1,2-Dibromo-3-Chloropropane
1,2-Dibromoethane
Dibromomethane
Dichlorodifluoromethane
1,2-Dichloropropane
1,1- Dichloropropene
1,3- Dichloropropane
CIS-1,3- Dichloropropene

Trans-1,3- Dichloropropene
2,2- Dichloropropane
Di-isopropyl Ether
Hexachloro-1,3-butadiene
Isopropylbenzene
p-Isopropyltoluene
4-Methyl-2-Pentanone (MIBK)
Styrene
1,1,1,2-Tetrachloroethane
1,1,2,2- Tetrachloroethane
1,1,2-Trichlorotrifluoroethane
1,2,3-Trichlorobenzene
1,2,4- Trichlorobenzene
1,1,2-Trichloroethane
Trichlorofluoromethane
1,2,3-Trichloropropane
1,2,3-Trimethylbenzene

1.10 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The laboratory report includes both the MDLs and the RLs; however, the EDD listed the non-detect results at the RLs. Additionally, the QC data was not included in the EDD. No other discrepancies were identified between the level II report and the EDD.

2.0 SEMIVOLATILE ORGANIC COMPOUNDS

The samples were analyzed for SVOCs by EPA methods 3546/8270D.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

✓ Overall Assessment
✓ Holding Times
✓ Method Blank
✓ Matrix Spike/Matrix Spike Duplicate
⊗ Laboratory Control Sample
✓ Surrogates
✓ Field Duplicate
✓ Sensitivity
⊗ Electronic Data Deliverable Review

2.1 Overall Assessment

The SVOC data reported in this data set are considered usable for meeting project objectives, with the following exceptions. The nondetect benzidine results were R qualified as rejected due to no LCS/LCSD recoveries (0%) and professional and technical judgment. Therefore, the analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this data set is 98%.

2.2 Holding Times

The holding times for SVOC analysis of solid samples are 14 days from sample collection to extraction and 40 days from extraction to analysis. The holding times were met for the sample analyses.

2.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch R3231515). SVOCs were not detected in the method blank above the MDLs, with the following exceptions.

The following compounds were detected in the method blank, at estimated concentrations greater than the MDLs and less than the RLs. Since these compounds were not detected in the associated samples, no qualifications were applied to the data.

Anthracene
Benzo(a) anthracene
Benzo(k)fluoranthene
Benzo(g,h,i)perylene
Benzo(a)pyrene

Chrysene
Fluoroanthene
Indeno(1,2,3-cd)pyrene
Isophorone
Nitrobenzene

N-Nitrosodiphenylamine	Diethyl Phthalate
Phenanthrene	Dimethyl Phthalate
Bis(2-ethylhexyl)Phthalate	4-Chloro-3-methylphenol

2.4 Matrix Spike/Matrix Spike Duplicate

MS/MSD pairs were not reported.

2.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS/LCSD pair was reported. The recovery and RPD results were within the laboratory specified acceptance criteria, with the following exceptions.

There were no recoveries of benzidine (0%), low and outside laboratory specified acceptance criteria. Therefore, based on professional and technical judgment, the nondetect results of benzidine in the associated samples were R qualified as rejected.

Sample ID	Compound	Laboratory Result (mg/kg)	Laboratory Flag	Validation Result (mg/kg)	Validation Qualifier	Reason Code
BP-1000-2000-COMP	Benzidine	0.0659	U J4	0.0659	R	5
BP-2000-3000-COMP	Benzidine	0.0655	U J4	0.0655	R	5
BP-3000-4000-COMP	Benzidine	0.0657	U J4	0.0657	R	5
BP-4000-5000-COMP	Benzidine	0.0663	U J4	0.0663	R	5

mg/kg-milligrams per kilogram
U-not detected at or above the listed MDL
J4-laboratory flag indicating that the associated batch QC was outside the established quality control range for accuracy

2.6 Surrogates

Acceptable surrogate recoveries were reported.

2.7 Field Duplicate

Field duplicates were not collected with the sample set.

2.8 Sensitivity

The samples were reported to the MDLs. No elevated non-detect results were reported.

The MDLs were at or below the NYSDEC DER10 App 5 Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010 listed in the EDD. It was noted that NYSDEC constituent levels were listed in the EDD for the following compounds; the other SVOCs did not have NYSDEC constituent levels listed.

Acenaphthene
Acenaphthylene
Anthracene
Benzo(a) anthracene
Benzo(k)fluoranthene
Benzo(b)fluoranthene
Benzo(g,h,i)perylene
Benzo(a)pyrene
Chrysene
Dibenz(a,h)anthracene

Fluoranthene
Fluorene
Hexachlorobenzene
Indeno(1,2,3-cd)pyrene
Naphthalene
Phenanthrene
Pyrene
Pentachlorophenol
Phenol

2.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The laboratory report includes both the MDLs and the RLs; however, the EDD listed the non-detect results at the RLs. Additionally, the QC data was not included in the EDD. No other discrepancies were identified between the level II report and the EDD.

3.0 ORGANOCHLORINE PESTICIDES

The samples were analyzed for organochlorine pesticides by EPA Methods 3546/8081.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

✓ Overall Assessment
✓ Holding Times
✓ Method Blank

✓ Matrix Spike/Matrix Spike Duplicate
✓ Laboratory Control Sample
✓ Surrogates
✓ Field Duplicate
✓ Sensitivity
⊗ Electronic Data Deliverable Review

3.1 Overall Assessment

The organochlorine pesticide data reported in this data set are considered usable for meeting project objectives. The analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this data set is 100%.

3.2 Holding Times

The holding times for organochlorine pesticide analysis of solid samples are 14 days from sample collection to extraction and 40 days from extraction to analysis. The holding times were met for the sample analyses.

3.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch R3231461). The organochlorine pesticides were not detected in the method blank above the MDLs.

3.4 Matrix Spike/Matrix Spike Duplicate

MS/MSD pairs were not reported.

3.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS/LCSD pair was reported. The recovery and RPD results were within the laboratory specified acceptance criteria.

3.6 Surrogates

Acceptable surrogate recoveries were reported for the sample analyses.

3.7 Field Duplicate

Field duplicates were not collected with the sample set.

3.8 Sensitivity

The samples were reported to the MDLs. No elevated non-detect results were reported.

The MDLs were at or below the NYSDEC DER10 App 5 Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010 listed in the EDD. It was noted that no NYSDEC constituent levels were listed in the EDD for endrin aldehyde, endrin ketone, heptachlor expoxide, methoxychlor, chlordane and toxaphene.

3.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The laboratory report includes both the MDLs and the RLs; however, the EDD listed the non-detect results at the RLs. Additionally, the QC data was not included in the EDD. No other discrepancies were identified between the level II report and the EDD.

4.0 POLYCHLORINATED BIPHENYLS

The samples were analyzed for PCBs by EPA Methods 3546/8082A.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

✓ Overall Assessment
✓ Holding Times
✓ Method Blank
✓ Matrix Spike/Matrix Spike Duplicate
✓ Laboratory Control Sample
✓ Surrogates
✓ Field Duplicate
✓ Sensitivity
⊗ Electronic Data Deliverable Review

4.1 Overall Assessment

The PCB data reported in this data set are considered usable for meeting project objectives. The analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this data set is 100%.

4.2 Holding Times

No holding times are listed in the referenced method for PCB analyses. The samples were extracted and analyzed within 10 days of collection. Therefore, no qualifications were applied to the data, based on professional and technical judgment.

4.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch R3231608). PCBs were not detected in the method blank above the MDLs.

4.4 Matrix Spike/Matrix Spike Duplicate

MS/MSD pairs were not reported.

4.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS/LCSD pair was reported. The recovery and RPD results were within the laboratory specified acceptance criteria.

4.6 Surrogates

Acceptable surrogate recoveries were reported for the sample analyses.

4.7 Field Duplicate

Field duplicates were not collected with the sample set.

4.8 Sensitivity

The samples were reported to the MDLs. No elevated non-detect results were reported.

It was noted that no NYSDEC constituent levels were listed in the EDD for PCBs.

4.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The laboratory report includes both the MDLs and the RLs; however, the EDD listed the non-detect results at the RLs. Additionally, the QC data was not included in the EDD. No other discrepancies were identified between the level II report and the EDD.

5.0 METALS

The samples were analyzed for metals by EPA methods 3050B/6010B (Mercury evaluated separately in Section 6.0, below). The trivalent chromium results were determined by calculation.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

✓ Overall Assessment
✓ Holding Times
✓ Method Blank
⊗ Matrix Spike/Matrix Spike Duplicate
✓ Laboratory Control Sample
✓ Laboratory Duplicate
✓ Field Duplicate
✓ Sensitivity
⊗ Electronic Data Deliverable Review

5.1 Overall Assessment

The metals data reported in this data set are considered usable for meeting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this data set is 100%.

5.2 Holding Times

The holding time for the metals analysis of solid samples is 180 days from sample collection to analysis. The holding times were met for the sample analyses.

5.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch R3230566). The metals were not detected in the method blank above the MDLs, with the following exception.

Zinc was detected at an estimated concentration greater than the MDL and less than the RL. Since the concentrations of zinc in the associated samples were greater than the RL, no qualifications were applied to the data.

5.4 Matrix Spike/Matrix Spike Duplicate

MS/MSD pairs were analyzed at the proper frequency for the number and types of samples analyzed (one pair per batch of 20 samples). One sample set specific MS/MSD pair was reported, using sample BP-4000-5000-COMP. The recovery and RPD results were within the laboratory specified acceptance criteria, with the following exceptions.

One or both of the recoveries of manganese and zinc were low and outside the laboratory specified acceptance criteria. Since the concentration of manganese in sample BP-4000-5000-COMP was greater than four times the spike concentration, no qualifications were applied to the manganese data. The laboratory sent information by email concerning the serial dilution result for zinc, since the laboratory flag on the zinc result for sample BP-4000-5000-COMP indicated that the serial dilution failed the acceptance criteria. The zinc %D for the serial dilution was high and outside the method specified acceptance criteria. Therefore, due to the low MS zinc recovery and the high serial dilution %D, the concentration of zinc in sample BP-4000-5000-COMP was J qualified as estimated.

Sample ID	Compound	Laboratory Result (mg/kg)	Laboratory Flag	Validation Result (mg/kg)	Validation Qualifier	Reason Code
BP-4000-5000-COMP	Zinc	84	J6 O1	84	J	4, 8

mg/kg-milligrams per kilogram
J6- laboratory flag indicating that the sample matrix interfered with the ability to make any accurate determination; spike value is low
O1-laboratory flag indicating that the analyte failed the method required serial dilution test and/or subsequent post-spike criteria; this failure indicate matrix interference

5.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS/LCSD pair was reported. The recovery and RPD results were within the laboratory specified acceptance criteria.

5.6 Laboratory Duplicate

A laboratory duplicate was not reported.

5.7 Field Duplicate

Field duplicates were not collected with the sample set.

5.8 Sensitivity

The samples were reported to the MDLs. No elevated non-detect results were reported.

The MDLs were at or below the NYSDEC DER10 App 5 Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010 listed in the EDD. It was noted that no NYSDEC constituent level was listed in the EDD for chromium.

5.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The laboratory report includes both the MDLs and the RLs, however the EDD listed the non-detect results at the RLs. Additionally, the QC data was not included in the EDD. No other discrepancies were identified between the level II report and the EDD.

6.0 MERCURY

The samples were analyzed for mercury by EPA method 7471A.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

✓ Overall Assessment
✓ Holding Times

- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Field Duplicate
- ✓ Sensitivity
- ⊗ Electronic Data Deliverable Review

6.1 Overall Assessment

The mercury data reported in this data set are considered usable for meeting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this data set is 100%.

6.2 Holding Times

The holding time for the mercury analysis of solid samples is 28 days from sample collection to analysis. The holding times were met for the sample analyses.

6.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch R3230650). Mercury was not detected in the method blank above the MDL.

6.4 Matrix Spike/Matrix Spike Duplicate

A batch MS/MSD pair was reported. Since this was batch QC, there was no impact on the data and no qualifications were applied to the data.

6.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS/LCSD pair was reported. The recovery and RPD results were within the laboratory specified acceptance criteria.

6.6 Laboratory Duplicate

A laboratory duplicate was not reported.

6.7 Field Duplicate

Field duplicates were not collected with the sample set.

6.8 Sensitivity

The samples were reported to the MDL. No elevated non-detect results were reported.

The MDL was at or below the NYSDEC DER10 App 5 Constituent Level for Imported Fill or Soil Restricted Residential Use May 2010 listed in the EDD.

6.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The laboratory report includes both the MDLs and the RLs; however, the EDD listed the non-detect results at the RLs. Additionally, the QC data was not included in the EDD. No other discrepancies were identified between the level II report and the EDD.

7.0 HEXAVALENT CHROMIUM

The samples were analyzed for hexavalent chromium by EPA Methods 3060A/7196A.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

✓ Overall Assessment
✓ Holding Times
✓ Method Blank
✓ Matrix Spike/Matrix Spike Duplicate
✓ Laboratory Control Sample
✓ Laboratory Duplicate
✓ Field Duplicate
✓ Sensitivity
⊗ Electronic Data Deliverable Review

7.1 Overall Assessment

The hexavalent chromium data reported in this data set are considered usable for meeting project objectives. The analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this data set is 100%.

7.2 Holding Times

The holding times for the hexavalent chromium analysis of solid samples are 30 days from sample collection to digestion and 7 days from digestion to analysis. The holding times were met for the sample analyses.

7.3 Method Blanks

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch R3231106). Hexavalent chromium was not detected in the method blank above the MDL.

7.4 Matrix Spike/Matrix Spike Duplicate

MS/MSD pairs were analyzed at the proper frequency for the number and types of samples analyzed (one pair per batch of 20 samples). One sample set specific MS/MSD pair was reported, using sample BP-1000-2000-COMP. The recovery and RPD results were within the laboratory specified acceptance criteria.

7.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS/LCSD pair was reported. The recovery and RPD result was within the laboratory specified acceptance criteria.

7.6 Laboratory Duplicate

A sample set specific laboratory duplicate was reported using sample BP-1000-2000-COMP. The RPD result was within the laboratory specified acceptance criteria.

7.7 Field Duplicate

A field duplicate was not collected with the sample set.

7.8 Sensitivity

The samples were reported to the MDL. No elevated non-detect results were reported.

The MDL was at or below the NYSDEC DER10 App 5 Constituent Level for Imported Fill or Soil Restricted Residential Use May 2010 listed in the EDD.

7.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The laboratory report includes both the MDLs and the RLs; however, the EDD listed the non-detect results at the RLs. Additionally, the QC data was not included in the EDD. No other discrepancies were identified between the level II report and the EDD.

8.0 TOTAL CYANIDE

The samples were analyzed for total cyanide by EPA Methods 9012B.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

8.1 Overall Assessment

The total cyanide data reported in this data set are considered usable for meeting project objectives. The analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this data set is 100%.

8.2 Holding Times

The holding time for the total cyanide analysis of solid samples is 14 days from sample collection to analysis. The holding times were met for the sample analyses.

8.3 Method Blanks

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch R3230775). Cyanide was not detected in the method blank above the MDL.

8.4 Matrix Spike

A batch MS/MSD pair was reported. Since this was batch QC, there was no impact on the data and no qualifications were applied to the data.

8.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS/LCSD pair was reported. The recovery and RPD results were within the laboratory specified acceptance criteria.

8.6 Laboratory Duplicate

Two batch laboratory duplicates were reported. Since these were batch QC, there was no impact on the data and no qualifications were applied to the data.

8.7 Field Duplicate

A field duplicate was not collected with the sample set.

8.8 Sensitivity

The samples were reported to the MDL. No elevated non-detect results were reported.

The MDL was at or below the NYSDEC DER10 App 5 Constituent Level for Imported Fill or Soil Restricted Residential Use May 2010 listed in the EDD.

8.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The

laboratory report includes both the MDLs and the RLs; however, the EDD listed the non-detect results at the RLs. Additionally, the QC data was not included in the EDD. No other discrepancies were identified between the level II report and the EDD.

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ATTACHMENT 1
DATA VALIDATION QUALIFIER DEFINITIONS AND INTERPRETATION KEY
Assigned by Geosyntec's Data Validation Team

DATA QUALIFIER DEFINITIONS

U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

J+ The analyte was positively identified; however, the associated numerical value is likely to be higher that the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.

J- The analyte was positively identified; however, the associated numerical value is likely to be lower that the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ATTACHMENT 2
DATA VALIDATION REASON CODES
Assigned by Geosyntec's Data Validation Team

Valid Value	Description
1	Preservation requirement not met
2	Analysis holding time exceeded
3	Blank contamination (i.e., method, trip, equipment, etc.)
4	Matrix spike/matrix spike duplicate recovery or RPD outside limits
5	LCS recovery outside limits
6	Surrogate recovery outside limits
7	Field Duplicate RPD exceeded
8	Serial dilution percent difference exceeded
9	Calibration criteria not met
10	Linear range exceeded
11	Internal standard criteria not met
12	Lab duplicates RPD exceeded
13	Other

RPD-relative percent difference

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Memorandum

Date:	18 July 2017
To:	Aron Krasnopoler
From:	Mary Tyler
CC:	J. Caprio
Subject:	**Stage 2A Data Validation - Level II Data Deliverable, TestAmerica Job ID 180-68096-1**

SITE: Former Sperry Remington Site-North IRM

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of thirty-three solid samples, including two samples for matrix spike/matrix spike duplicate (MS/MSD) analyses, three field duplicate samples and two trip blanks, collected July 11, 2017, as part of the Former Sperry Remington Site-North IRM project. The analyses were performed at TestAmerica Laboratories, Inc., Pittsburgh, Pennsylvania. The samples were analyzed for the following tests:

- Volatile Organic Compounds (VOCs) by EPA Methods 5035/8260C
- Semivolatile Organic Compounds (SVOCs) by EPA Methods 3541/8270D
- Polychlorinated Biphenyls (PCBs) by EPA Methods 3541/8082A
- Metals by EPA Methods 3050B/6010C
- Mercury by EPA Method 7471B
- Total Cyanide by EPA Method 9014
- Total Solids by Standard Method 2540G

EXECUTIVE SUMMARY

The samples were handled, prepared, and measured in the same manner under similar prescribed conditions.

Overall, based on this Stage 2A data validation covering the quality control (QC) parameters listed below, the data as qualified are usable for meeting project objectives, with the following exception. Since there were no recoveries (0%) of pentachlorophenol in the MS/MSD pair, the nondetect result of pentachlorophenol in sample W2, S1, C 71117 was R qualified as rejected.

The remaining qualified data should be used within the limitations of the qualifications.

The data were validated based on the Quality Assurance Project Plan (QAPP) for Former Sperry Remington Facility Industrial Outfall Site, Elmira, New York, NYSDEC Site I.D. # 808043, NY09-2480-04, July 7, 2010, Revised November 11, 2010, USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review, January 2017 (EPA 540-R-2017-002), USEPA Contract Laboratory Program National Functional Guidelines for Superfund Inorganic Methods Data Review, January 2017 (EPA 540-R-2017-001), the pertinent methods referenced by the laboratory report and professional and technical judgment.

The following samples were analyzed and validated at Stage 2A level in the data set:

Laboratory ID	Client ID
180-68096-1	W1, S5, A 71117
180-68096-2	W1, S5, B 71117
180-68096-3	W1, S5, C 71117
180-68096-4	W2, S1, A 71117
180-68096-4 MS	W2, S1, A 71117 MS
180-68096-4 MSD	W2, S1, A 71117 MSD
180-68096-5	W2, S1, B 71117
180-68096-6	W2, S1, C 71117
180-68096-6 MS	W2, S1, C 71117 MS
180-68096-6 MSD	W2, S1, C 71117 MSD
180-68096-7	W2, S2, A 71117
180-68096-8	W2, S2, B 71117
180-68096-9	W2, S2, C 71117
180-68096-10	W2, S3, A 71117
180-68096-11	W2, S3, B 71117
180-68096-12	W2, S3, C 71117
180-68096-13	W2, S4, A 71117
180-68096-14	W2, S4, B 71117
180-68096-15	W2, S4, C 71117
180-68096-16	W2, S5 A 71117
180-68096-17	W2, S5 B 71117

Laboratory ID	Client ID
180-68096-18	W2, S5 C 71117
180-68096-19	W3, S1 A 71117
180-68096-20	W3, S1 B 71117
180-68096-21	DUP-3
180-68096-22	DUP-4
180-68096-23	W3, S1, C 71117
180-68096-24	W3, S2, A 71117
180-68096-25	W3, S2, B 71117
180-68096-26	W3, S2, C 71117
180-68096-27	W3, S3, A 71117
180-68096-28	W3, S3, B 71117
180-68096-29	W3, S3, C 71117
180-68096-30	W3, S4, A 71117
180-68096-31	W3, S4, B 71117
180-68096-32	W3, S4, C 71117
180-68096-33	DUP-5
180-68096-34	W3, S5, A 71117
180-68096-35	W3, S5, B 71117
180-68096-36	W3, S5, C 71117
180-68096-37	TRIP BLANK 1
180-68096-38	TRIP BLANK 2

The samples were received at the laboratory at 1.2-3.1^{o}C, within the criteria of 0-6°C. No sample preservation issues were noted by the laboratory.

The following issues were noted with the chain of custody (COC):

- Incorrect error corrections were observed on the COC, instead of the proper procedure of a single strike through, correction, and initials and date of person making the corrections.

- No collection times were listed on the COC for the field duplicate samples; the laboratory assigned collection times of 00:00.

- Two trip blanks were listed on the COC for VOC analysis, both with IDs Trip Blank. The laboratory assigned them IDs of TRIP BLANK 1 and TRIP BLANK 2. In addition, there were no collection dates or times were listed on the COC for the trip blanks; the laboratory assigned collection dates and times of 7/11/17, 00:00.

The solids data, used to report the samples on a dry weight basis, were not validated.

1.0 VOLATILE ORGANIC COMPOUNDS

The samples were analyzed for VOCs by EPA methods 5035/8260B.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

⊗ Overall Assessment
✓ Holding Times
✓ Method Blank
✓ Matrix Spike/Matrix Spike Duplicate
✓ Laboratory Control Sample
✓ Surrogates
✓ Trip Blank
✓ Field Duplicate
✓ Sensitivity
✓ Electronic Data Deliverable Review

1.1 Overall Assessment

The VOC data reported in this package are considered usable for meeting project objectives. The analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this data set is 100%.

The narrative indicated that there was “significant” headspace in two of the three VOA vials for TRIP BLANK 1 and TRIP BLANK 2. Significant headspace is defined by the laboratory as a

bubble greater than 6 millimeters (mm) in diameter. Since VOCs were not detected in the associated solid samples, no qualifications were applied to the data based on trip blank results.

The narrative also indicated that the continuing calibration verification (CCV) percent differences (%Ds) for carbon tetrachloride were high, outside method specified acceptance criteria in analytical batches 217186 and 217056, both with low biases; the %Ds were 22%D and 25%D, respectively, and the method limits are 20%D. Since the %Ds were within the validation guidance, no qualifications were applied to the data. In addition, the CCV %Ds for 2-butanone and acetone were high, outside method specified acceptance criteria in analytical batch 217200, both with low biases; the %Ds were 33%D and 41%D, respectively, and the method limits are 20%D. Since the %D for 2-butanone was within the validation guidance, no qualifications were applied to the 2-butanone data. However, since the %D for acetone was outside both the method and validation guidance and based on professional and technical judgment, the nondetect result of acetone in the associated sample was UJ qualified as estimated less than the method detection limit (MDL) and the concentration in the associated sample was J qualified as estimated.

Sample	Compound	Laboratory Result (µg/L)	Laboratory Flag	Validation Result (µg/L)	Validation Qualifier*	Reason Code**
TRIP BLANK 1	Acetone	3.5	J	3.5	J	9
TRIP BLANK 2	Acetone	3.1	U	3.1	UJ	9

µg/L-micrograms per liter
J- laboratory flag indicating the result is less than the reporting limit (RL) but greater than or equal to the MDL and the concentration is an approximate value
NA-not applicable
* Validation qualifiers are defined in Attachment 1 at the end of this report
**Reason codes are defined in Attachment 2 at the end of this report

1.2 Holding Times

The holding time for the VOC analysis of a preserved solid sample collected as a terracore is 48 hours until laboratory receipt and 14 days from sample collection to analysis. The holding time for the VOC analysis of a preserved water sample is 14 days from sample collection to analysis. The holding times were met for the sample analyses.

1.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Four method blanks were reported (batches 217200, 216893, 217056 and 217186). VOCs were not detected in the method blanks above the MDLs.

1.4 Matrix Spike/Matrix Spike Duplicate

A sample set specific MS/MSD pair was reported, using sample W2, S1, A 711172. The recovery and relative percent difference (RPD) results were within the laboratory specified acceptance criteria.

1.5 Laboratory Control Sample (LCS)

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two LCSs and two LCS/LCS duplicate (LCSD) pairs were reported. The recovery and RPD results were within the laboratory specified acceptance criteria, with the following exception.

The LCS recovery of n-butylbenzene was high and outside the laboratory specified acceptance criteria in batch 217200. Since n-butylbenzene was not detected in the associated samples, no qualifications were applied to the data.

1.6 Surrogates

Acceptable surrogate recoveries were reported.

1.7 Trip Blank

Two trip blanks accompanied the samples, TRIP BLANK 1 and TRIP BLANK 2. VOCs were not detected in the trip blanks above the MDLs, with the following exceptions.

Acetone was detected at an estimated concentration greater than the MDL and less than the RL in TRIP BLANK 1. Since acetone was not detected in the associated samples, no qualifications were applied to the data.

1.8 Field Duplicate

Three field duplicates were collected with the sample set. Two field duplicates were analyzed for VOCs, DUP-3 and DUP-5. Acceptable precision (RPD <40% for results greater than five times the RL and ±2 times the RL for results less than five times the RL) was demonstrated between the field duplicates and the original samples, W2, S4, B71117 and W3, S2, A71117, respectively. The RPDs between the results were 0%.

1.9 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were not reported.

1.10 Electronic Data Deliverable (EDD) Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

2.0 SEMIVOLATILE ORGANIC COMPOUNDS

The samples were analyzed for SVOCs by EPA methods 3541/8270D.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

⊗ Overall Assessment
✓ Holding Times
✓ Method Blank
⊗ Matrix Spike/Matrix Spike Duplicate
✓ Laboratory Control Sample
✓ Surrogates
✓ Field Duplicate
✓ Sensitivity
✓ Electronic Data Deliverable Review

2.1 Overall Assessment

The SVOC data reported in this package are considered usable for meeting project objectives, with the following exception. Since there were no recoveries (0%) of pentachlorophenol in the MS/MSD pair, the nondetect result of pentachlorophenol in sample W2, S1, C 71117 was R qualified as rejected. Therefore, the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this data set is 99.6%.

The narrative indicated that the CCV %Ds for pentachlorophenol were high, outside method specified acceptance criteria in analytical batches 216940 and 217242, both with high biases; the %Ds were 54%D and 51%D, respectively, and the method limits are 20%D. Since the biases were high and pentachlorophenol was not detected in the associated samples, no qualifications were applied to the data. In addition, the CCV %D for benzo[g,h,i]perylene was high, outside method specified acceptance criteria in analytical batch 217242, with a low bias; the %D was 21%D and

the method limit is 20%D. Since the %D for benzo[g,h,i]perylene was within the validation guidance, no qualifications were applied to the benzo[g,h,i]perylene data.

2.2 Holding Times

The holding times for SVOC analysis of solid samples are 14 days from sample collection to extraction and 40 days from extraction to analysis. The holding times were met for the sample analyses.

2.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 216880). SVOCs were not detected in the method blank above the MDLs.

2.4 Matrix Spike/Matrix Spike Duplicate

MS/MSD pairs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). A sample set specific MS/MSD pair was reported, using sample W2, S1, C 71117. The recovery and RPD results were within the laboratory specified acceptance criteria, with the following exceptions.

The recoveries and/or RPDs of the following compounds were high and outside the laboratory specified acceptance criteria. Since fluorene and 1,4-dioxane were not detected in sample W2, S1, C 71117, no qualifications were applied to the fluorene and 1,4-dioxane data. However, the concentrations of the other compounds listed below in sample W2, S1, C 71117 were J qualified as estimated

1,4-Dioxane	Benzo[a]pyrene	Fluorene
Acenaphthylene	Benzo[g,h,i]perylene	Indeno[1,2,3-cd]pyrene
Anthracene	Benzo[k]fluoranthene	Phenanthrene
Benzo[a]anthracene	Chrysene	Pyrene

The MSD recovery of benzo[b]fluoranthene was low and the RPD was high, outside the laboratory specified acceptance criteria. The MS recovery and RPD of fluoranthene were high and the MSD recovery was low, outside the laboratory specified acceptance criteria. Therefore, the concentrations of benzo[b]fluoranthene and fluoranthene in sample W2, S1, C 71117 were J qualified as estimated. There were no recoveries (0%) of pentachlorophenol in the MS/MSD pair.

Therefore, the nondetect result of pentachlorophenol in sample W2, S1, C 71117 was R qualified as rejected.

The qualifications due to the MS/MSD results are summarized below.

Sample	Compound	Laboratory Result (mg/kg)	Laboratory Flag	Validation Result (mg/kg)	Validation Qualifier	Reason Code
W2, S1, C 71117	Acenaphthylene	0.12	J,F2	0.12	J	4
W2, S1, C 71117	Anthracene	0.15	F2	0.15	J	4
W2, S1, C 71117	Benzo[a]anthracene	0.59	F2,F1	0.59	J	4
W2, S1, C 71117	Benzo[a]pyrene	0.61	F2,F1	0.61	J	4
W2, S1, C 71117	Benzo[b]fluoranthene	0.78	F2,F1	0.78	J	4
W2, S1, C 71117	Benzo[g,h,i]perylene	0.55	F2,F1	0.55	J	4
W2, S1, C 71117	Benzo[k]fluoranthene	0.21	F2,F1	0.21	J	4
W2, S1, C 71117	Chrysene	0.62	F2	0.62	J	4
W2, S1, C 71117	Fluoranthene	0.93	F2,F1	0.93	J	4
W2, S1, C 71117	Indeno[1,2,3-cd]pyrene	0.50	F2,F1	0.50	J	4
W2, S1, C 71117	Pentachlorophenol	1.4	U,F1	1.4	R	4
W2, S1, C 71117	Phenanthrene	0.43	F2,F1	0.43	J	4
W2, S1, C 71117	Pyrene	0.92	F2,F1	0.92	J	4

mg/kg-milligrams per kilogram
J- laboratory flag indicating the Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value
F1-laboratory flag indicating the MS and/or MSD recovery is outside acceptance limits
F2- laboratory flag indicating the MS/MSD RPD exceeds control limits
U-not detected at the stated MDL

2.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery results were within the laboratory specified acceptance criteria.

2.6 Surrogates

Acceptable surrogate recoveries were reported.

2.7 Field Duplicate

Three field duplicates were collected with the sample set. One field duplicate was analyzed for SVOCs, DUP-4. Acceptable precision (RPD <40% for results greater than five times the RL and ±2 times the RL for results less than five times the RL) was demonstrated between the field duplicate and the original sample, W2, S4, C71117.

2.8 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were reported due to the dilutions analyzed.

2.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II reports and the EDDs.

3.0 POLYCHLORINATED BIPHENYLS

The samples were analyzed for PCBs by EPA Methods 3541/8082A.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

⊗ Overall Assessment
✓ Holding Times
✓ Method Blank
✓ Matrix Spike/Matrix Spike Duplicate

- ✓ Laboratory Control Sample
- ✓ Surrogates
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

3.1 Overall Assessment

The PCB data reported in this package are considered usable for meeting project objectives. The analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this data set is 100%.

The samples contain mixtures of PCBs 1248, 1254 and 1260. There are peaks in 1248 and 1254 that are in both of these PCBs and peaks in 1254 and 1260 that are in both of these PCBs; therefore, there is contribution between PCBs when more than one PCB is detected in a sample. Therefore, based on professional and technical judgment, the concentrations of PCBs PCBs 1248, 1254 and 1260 in these samples were J qualified as estimated.

Sample ID	Compound	Laboratory Concentration (mg/kg)	Laboratory Flag	Validation Concentration (mg/kg)	Validation Qualifier	Reason Code
DUP-4	PCB-1248	0.56	NA	0.56	J	13
DUP-4	PCB-1254	0.38	NA	0.38	J	13
DUP-4	PCB-1260	0.14	NA	0.14	J	13
W1, S5, C 71117	PCB-1248	0.63	NA	0.63	J	13
W1, S5, C 71117	PCB-1254	0.45	NA	0.45	J	13
W1, S5, C 71117	PCB-1260	0.15	NA	0.15	J	13
W2, S1, C 71117	PCB-1248	0.84	NA	0.84	J	13
W2, S1, C 71117	PCB-1254	0.64	NA	0.64	J	13
W2, S1, C 71117	PCB-1260	0.19	NA	0.19	J	13
W2, S2, C 71117	PCB-1248	0.74	NA	0.74	J	13
W2, S2, C 71117	PCB-1254	0.52	NA	0.52	J	13
W2, S2, C 71117	PCB-1260	0.20	NA	0.20	J	13
W2, S3, C 71117	PCB-1248	0.69	NA	0.69	J	13
W2, S3, C 71117	PCB-1254	0.56	NA	0.56	J	13
W2, S3, C 71117	PCB-1260	0.16	NA	0.16	J	13
W2, S4, C 71117	PCB-1248	0.70	NA	0.70	J	13
W2, S4, C 71117	PCB-1254	0.48	NA	0.48	J	13

Sample ID	Compound	Laboratory Concentration (mg/kg)	Laboratory Flag	Validation Concentration (mg/kg)	Validation Qualifier	Reason Code
W2, S4, C 71117	PCB-1260	0.16	NA	0.16	J	13
W2, S5 C 71117	PCB-1248	0.70	NA	0.70	J	13
W2, S5 C 71117	PCB-1254	0.48	NA	0.48	J	13
W2, S5 C 71117	PCB-1260	0.17	NA	0.17	J	13
W3, S1, C 71117	PCB-1248	0.67	NA	0.67	J	13
W3, S1, C 71117	PCB-1254	0.47	NA	0.47	J	13
W3, S1, C 71117	PCB-1260	0.17	NA	0.17	J	13
W3, S2, C 71117	PCB-1248	0.65	NA	0.65	J	13
W3, S2, C 71117	PCB-1254	0.44	NA	0.44	J	13
W3, S2, C 71117	PCB-1260	0.15	NA	0.15	J	13
W3, S3, C 71117	PCB-1248	0.88	NA	0.88	J	13
W3, S3, C 71117	PCB-1254	0.59	NA	0.59	J	13
W3, S3, C 71117	PCB-1260	0.17	NA	0.17	J	13
W3, S4, C 71117	PCB-1248	0.93	NA	0.93	J	13
W3, S4, C 71117	PCB-1254	0.61	NA	0.61	J	13
W3, S4, C 71117	PCB-1260	0.19	NA	0.19	J	13
W3, S5, C 71117	PCB-1248	0.93	NA	0.93	J	13
W3, S5, C 71117	PCB-1254	0.61	NA	0.61	J	13
W3, S5, C 71117	PCB-1260	0.18	NA	0.18	J	13

mg/kg-milligrams per kilogram
NA-not applicable

3.2 Holding Times

The holding times for the PCB analysis of solids are 14 days from sample collection to extraction and 40 days from extraction to analysis. The holding times were met for the sample analyses.

3.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 216879). PCBs were not detected in the method blank above the MDLs.

3.4 Matrix Spike/Matrix Spike Duplicate

MS/MSD pairs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). A sample set specific MS/MSD pair was reported, using

sample W2, S1, C 71117. The recovery and RPD results were within the laboratory specified acceptance criteria.

3.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery results were within the laboratory specified acceptance criteria.

3.6 Surrogates

Acceptable surrogate recoveries were reported.

3.7 Field Duplicate

Three field duplicates were collected with the sample set. One field duplicate was analyzed for PCBs, DUP-4. Acceptable precision (RPD <40% for results greater than five times the RL and ±2 times the RL for results less than five times the RL) was demonstrated between the field duplicate and the original sample, W2, S4, C71117.

3.8 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were not reported.

3.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No other discrepancies were identified between the level II report and the EDD.

5.0 METALS

The samples were analyzed for metals by EPA methods 3050B/6010C (Mercury evaluated separately in Section 6.0, below).

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ⊗ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ⊗ Serial Dilution
- ⊗ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

5.1 Overall Assessment

The metals data reported in this package are considered usable for meeting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this data set is 100%.

5.2 Holding Times

The holding time for metals analysis of solid samples is 180 days from sample collection to analysis. The holding times were met for the sample analyses.

5.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 216920). The metals were not detected in the method blank above the MDLs.

5.4 Matrix Spike/Matrix Spike Duplicate

MS/MSD pairs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). A sample set specific MS/MSD pair was reported, using sample W2, S1, C 71117. The recovery and RPD results were within the laboratory specified acceptance criteria, with the following exceptions.

One or both of the recoveries of copper and zinc were low and outside the laboratory specified acceptance criteria. Therefore, the concentrations of copper and zinc in sample W2, S1, C 71117 were J- qualified as estimated with low biases. In addition, the RPD for manganese was high and outside the laboratory specified acceptance criteria. Since the concentration of manganese in

sample W2, S1, C 71117 was greater than four times the spike concentration, no qualifications were applied to the manganese data.

The qualifications due to the MS/MSD results are summarized below.

Sample	Compound	Laboratory Result (mg/kg)	Laboratory Flag	Validation Result (mg/kg)	Validation Qualifier	Reason Code
W2, S1, C 71117	Copper	26	F1	26	J-	4
W2, S1, C 71117	Zinc	76	F1	76	J-	4

mg/kg-milligrams per kilogram
F1-laboratory flag indicating the MS and/or MSD recovery is outside acceptance limits

5.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery results were within the laboratory specified acceptance criteria.

5.6 Laboratory Duplicate

A laboratory duplicate was not reported with the sample set.

5.7 Serial Dilution

The narrative indicated that the serial dilution results for manganese and zinc using sample W2, S1, C 71117 were high and outside the method specified acceptance criteria. The %Ds were 13%D and 12%D, respectively, limits 10%D; the serial dilution results were in the level IV report. Therefore, the concentrations of manganese and zinc in sample W2, S1, C 71117 were J qualified as estimated.

Sample	Compound	Laboratory Result (mg/kg)	Laboratory Flag	Validation Result (mg/kg)	Validation Qualifier	Reason Code
W2, S1, C 71117	Manganese	800	F2	800	J	8
W2, S1, C 71117	Zinc	76	F1	76	J	8

mg/kg-milligrams per kilogram
F2- laboratory flag indicating the MS/MSD RPD exceeds control limits
F1-laboratory flag indicating the MS and/or MSD recovery is outside acceptance limits

5.8 Field Duplicate

Three field duplicates were collected with the sample set. One field duplicate was analyzed for metals, DUP-4. Acceptable precision (RPD <40% for results greater than five times the RL and ±2 times the RL for results less than five times the RL) was demonstrated between the field duplicates and the original sample, W2, S4, C71117, with the following exceptions.

The field duplicate acceptance criteria were not met for arsenic and nickel. Therefore, based on professional and technical judgment, the concentrations of arsenic and nickel in the field duplicate pair were J qualified as estimated.

The qualifications due to the field duplicate results are summarized below.

Sample	Compound	Laboratory Result (mg/kg)	Laboratory Flag	RPD	Validation Result (mg/kg)	Validation Qualifier	Reason Code
DUP-4	Arsenic	8.4	NA	42	8.4	J	7
W2, S4, C 71117	Arsenic	5.5	NA		5.5	J	7
DUP-4	Nickel	21	NA	40	21	J	7
W2, S4, C 71117	Nickel	14	NA		14	J	7

mg/kg-milligrams per kilogram
NA-not applicable

5.9 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were not reported.

5.10 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

6.0 MERCURY

The samples were analyzed for mercury by EPA methods 7471B.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues

were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ⊗ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

6.1 Overall Assessment

The mercury data reported in this package are considered usable for meeting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this data set is 100%.

6.2 Holding Times

The holding time for the mercury analysis of solid samples is 28 days from sample collection to analysis. The holding times were met for the sample analyses.

6.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 217097). Mercury was not detected in the method blank above the MDL.

6.4 Matrix Spike/Matrix Spike Duplicate

MS/MSD pairs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). A sample set specific MS/MSD pair was reported, using sample W2, S1, C 71117. The recovery results were high and outside the laboratory specified acceptance criteria. Therefore, the concentration of mercury in sample W2, S1, C 71117 was J+ qualified as estimated with a high bias.

Sample	Compound	Laboratory Result (mg/kg)	Laboratory Flag	Validation Result (mg/kg)	Validation Qualifier	Reason Code
W2, S1, C 71117	Mercury	0.41	F1	0.41	J+	4

mg/kg-milligrams per kilogram
F1-laboratory flag indicating the MS and/or MSD recovery is outside acceptance limits

6.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery result was within the laboratory specified acceptance criteria.

6.6 Laboratory Duplicate

A laboratory duplicate was not reported.

6.7 Field Duplicate

Three field duplicates were collected with the sample set. One field duplicate was analyzed for mercury, DUP-4. Acceptable precision (RPD <40% for results greater than five times the RL and ±2 times the RL for results less than five times the RL) was demonstrated between the field duplicates and the original sample, W2, S4, C71117.

6.8 Sensitivity

The samples were reported to the MDL. Elevated non-detect results were not reported.

6.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

7.0 TOTAL CYANIDE

The samples were analyzed for total cyanide by EPA Methods 9014.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues

were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Equipment Blank
- ✓ Sensitivity
- ✓ Electronic Data Deliverables Review

7.1 Overall Assessment

The cyanide data reported in this package are considered usable for meeting project objectives. The analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this data set is 100%.

7.2 Holding Times

The holding time for the cyanide analysis of solid samples is 14 days from sample collection to analysis. The holding times were met for the sample analyses.

7.3 Method Blanks

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 216972). Cyanide was not detected in the method blank above the MDL.

7.4 Matrix Spike

MS/MSD pairs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). A sample set specific MS/MSD pair was reported, using sample W2, S1, C 71117. The recovery and RPD results were within the laboratory specified acceptance criteria.

7.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Three LCSs were reported. The recovery results were within the laboratory specified acceptance criteria.

7.6 Laboratory Duplicate

A laboratory duplicate was not reported.

7.7 Field Duplicate

Three field duplicates were collected with the sample set. One field duplicate was analyzed for cyanide, DUP-4. Acceptable precision (RPD <40% for results greater than five times the RL and ±2 times the RL for results less than five times the RL) was demonstrated between the field duplicates and the original sample, Windrow 1,Sec 3, C.

7.8 Sensitivity

The samples were reported to the MDL. Elevated non-detect results were not reported.

7.9 Electronic Data Deliverables Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

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ATTACHMENT 1
DATA VALIDATION QUALIFIER DEFINITIONS AND INTERPRETATION KEY
Assigned by Geosyntec's Data Validation Team

DATA QUALIFIER DEFINITIONS

U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

J+ The analyte was positively identified; however, the associated numerical value is likely to be higher that the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.

J- The analyte was positively identified; however, the associated numerical value is likely to be lower that the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ATTACHMENT 2
DATA VALIDATION REASON CODES
Assigned by Geosyntec's Data Validation Team

Valid Value	Description
1	Preservation requirement not met
2	Analysis holding time exceeded
3	Blank contamination (i.e., method, trip, equipment, etc.)
4	Matrix spike/matrix spike duplicate recovery or RPD outside limits
5	LCS recovery outside limits
6	Surrogate recovery outside limits
7	Field Duplicate RPD exceeded
8	Serial dilution percent difference exceeded
9	Calibration criteria not met
10	Linear range exceeded
11	Internal standard criteria not met
12	Lab duplicates RPD exceeded
13	Other

RPD-relative percent difference

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Memorandum

Date:	17 July 2017
To:	Aron Krasnopoler
From:	Mary Tyler
CC:	J. Caprio
Subject:	**Stage 2A Data Validation - Level II Data Deliverable, TestAmerica Job ID 180-68037-1**

SITE: Former Sperry Remington Site-North IRM

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of twelve solid samples and two field duplicate samples, collected July 10, 2017, as part of the Former Sperry Remington Site-North IRM project. The analyses were performed at TestAmerica Laboratories, Inc., Pittsburgh, Pennsylvania. The samples were analyzed for the following tests:

- Volatile Organic Compounds (VOCs) by EPA Methods 5035/8260C
- Semivolatile Organic Compounds (SVOCs) by EPA Methods 3541/8270D
- Polychlorinated Biphenyls (PCBs) by EPA Methods 3541/8082A
- Metals by EPA Methods 3050B/6010C
- Mercury by EPA Method 7471B
- Total Cyanide by EPA Method 9014
- Total Solids by Standard Method 2540G

EXECUTIVE SUMMARY

The samples were handled, prepared, and measured in the same manner under similar prescribed conditions.

Overall, based on this Stage 2A data validation covering the quality control (QC) parameters listed below, the data as qualified are usable for meeting project objectives. Qualified data should be used within the limitations of the qualification.

The data were validated the Quality Assurance Project Plan (QAPP) for Former Sperry Remington Facility Industrial Outfall Site, Elmira, New York, NYSDEC Site I.D. # 808043, NY09-2480-04,

July 7, 2010, Revised November 11, 2010, USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review, January 2017 (EPA 540-R-2017-002), USEPA Contract Laboratory Program National Functional Guidelines for Superfund Inorganic Methods Data Review, January 2017 (EPA 540-R-2017-001), the pertinent methods referenced by the laboratory report and professional and technical judgment.

The following samples were analyzed and validated at Stage 2A level in the data sets:

Laboratory ID	Client ID
180-68037-1	DUP2
180-68037-2	WINDROW1, SEC 3, C
180-68037-3	WINDROW1, SEC 3, B
180-68037-4	WINDROW1, SEC 4, C
180-68037-5	DUP1
180-68037-6	WINDROW1, SEC 3, A
180-68037-7	WINDROW1, SEC 4, B

Laboratory ID	Client ID
180-68037-8	WINDROW1, SEC 2, C
180-68037-9	WINDROW1, SEC 2, A
180-68037-10	WINDROW1, SEC 1, A
180-68037-11	WINDROW1, SEC 1, C
180-68037-12	WINDROW1, SEC 4, A
180-68037-13	WINDROW1, SEC 2, B
180-68037-14	WINDROW1, SEC 1, B

The samples were received at the laboratory at 1.9-2.3ºC, within the criteria of 0-6ºC. No sample preservation issues were noted by the laboratory.

The following issues were noted with the chain of custody (COC):

- Incorrect error corrections were observed on the COC, instead of the proper procedure of a single strike through, correction, and initials and date of person making the corrections.
- No collection times were listed on the COC for the field duplicate samples; the laboratory assigned collection times of 00:00.
- There was no relinquishing signature on the first page of the COC and no relinquishing documentation (no signature, date or time) on the second page of the COC.
- The laboratory edited the analyses requested for field duplicate DUP1; the analyses were crossed off with the exception of the VOCs.
- A trip blank was listed on the COC for VOC analysis, but was not reported in this laboratory report.

The solids data, used to report the samples on a dry weight basis, were not validated.

1.0 VOLATILE ORGANIC COMPOUNDS

The samples were analyzed for VOCs by EPA methods 5035/8260B.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Surrogates
- ✓ Trip Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

1.1 Overall Assessment

The VOC data reported in this package are considered usable for meeting project objectives. The analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this package is 100%.

The narrative indicated that the continuing calibration verification (CCV) percent difference (%D) for vinyl chloride was high, outside method specified acceptance criteria. The %D was 20.1%; the method specified acceptance criteria is 20%D. Therefore, no qualifications were applied to the data.

1.2 Holding Times

The holding time for the VOC analysis of a preserved solid sample collected as a terracore is 48 hours until laboratory receipt and 14 days from sample collection to analysis. The holding times were met for the sample analyses.

1.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 216673). VOCs were not detected in the method blank above the method detection limits (MDLs).

1.4 Matrix Spike/Matrix Spike Duplicate (MS/MSD)

MS/MSD pairs were not reported.

1.5 Laboratory Control Sample (LCS)

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS/laboratory control sample duplicate (LCSD) pair was reported. The recovery and relative percent difference (RPD) results were within the laboratory specified acceptance criteria.

1.6 Surrogates

Acceptable surrogate recoveries were reported.

1.7 Trip Blank

A trip blank accompanied the samples, but was not reported in this laboratory report. Since the VOC results in the data set were non-detect, the trip blank results have no effect on the results.

1.8 Field Duplicate

Two field duplicates were collected with the sample set. One field duplicate was analyzed for VOCs, DUP1. Acceptable precision [RPD <40% for results greater than five times the reporting limit (RL) and ±2 times the RL for results less than five times the RL] was demonstrated between the field duplicates and the original sample, Windrow 1,Sec 3, A. The RPDs between the results were 0%.

1.9 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were not reported.

1.10 Electronic Data Deliverable (EDD) Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

2.0 SEMIVOLATILE ORGANIC COMPOUNDS

The samples were analyzed for SVOCs by EPA methods 3541/8270D.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

✓ Overall Assessment
✓ Holding Times
✓ Method Blank
⊗ Matrix Spike/Matrix Spike Duplicate
✓ Laboratory Control Sample
✓ Surrogates
⊗ Field Duplicate
✓ Sensitivity
✓ Electronic Data Deliverable Review

2.1 Overall Assessment

The SVOC data reported in this package are considered usable for meeting project objectives. The analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this package is 100%.

2.2 Holding Times

The holding times for SVOC analysis of solid samples are 14 days from sample collection to extraction and 40 days from extraction to analysis. The holding times were met for the sample analyses.

2.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 216675). SVOCs were not detected in the method blank above the MDLs.

2.4 Matrix Spike/Matrix Spike Duplicate

MS/MSD pairs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). A sample set specific MS/MSD pair was reported, using sample DUP2. The recovery and RPD results were within the laboratory specified acceptance criteria, with the following exceptions.

One of both of the recoveries of the following compounds were high and outside the laboratory specified acceptance criteria: Anthracene, benzo[k]fluoranthene, dibenzofuran, fluoranthene, phenanthrene and pyrene. Since dibenzofuran was not detected in sample DUP2, no qualifications were applied to the data. However, based on professional and technical judgment, the concentrations of anthracene, benzo[k]fluoranthene, fluoranthene, phenanthrene and pyrene in both sample DUP2 and its associated original sample, WINDROW1, SEC 3, C, were J qualified as estimated.

Sample	Compound	Laboratory Result (mg/kg)	Laboratory Flag	Validation Result (mg/kg)	Validation Qualifier*	Reason Code**
DUP2	Anthracene	0.22	F1	0.22	J	4
DUP2	Benzo[k]fluoranthene	0.23	F1	0.23	J	4
DUP2	Fluoranthene	0.45	F1	0.45	J	4
DUP2	Phenanthrene	0.21	F1	0.21	J	4
DUP2	Pyrene	0.81	F1	0.81	J	4
WINDROW1, SEC 3, C	Anthracene	0.18	NA	0.18	J	4
WINDROW1, SEC 3, C	Benzo[k]fluoranthene	0.23	NA	0.23	J	4
WINDROW1, SEC 3, C	Fluoranthene	0.64	NA	0.64	J	4
WINDROW1, SEC 3, C	Phenanthrene	0.39	NA	0.39	J	4
WINDROW1, SEC 3, C	Pyrene	0.82	NA	0.82	J	4

mg/kg-milligrams per kilogram
F1-laboratory flag indicating the MS and/or MSD recovery is outside acceptance limits
NA-not applicable
* Validation qualifiers are defined in Attachment 1 at the end of this report
**Reason codes are defined in Attachment 2 at the end of this report

2.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery results were within the laboratory specified acceptance criteria.

2.6 Surrogates

Acceptable surrogate recoveries were reported.

2.7 Field Duplicate

Two field duplicates were collected with the sample set. One field duplicate was analyzed for SVOCs, DUP2. Acceptable precision [RPD <40% for results greater than five times the RL and ±2 times the RL for results less than five times the RL] was demonstrated between the field duplicates and the original sample, Windrow 1,Sec 3, C, with the following exceptions.

The field duplicate acceptance criteria were not met for acenaphthylene and phenanthrene. Therefore, the concentrations of acenaphthylene and phenanthrene in the field duplicate pair were J qualified as estimated. The qualifications due to the field duplicate results are summarized below.

Sample	Compound	Laboratory Result (mg/kg)	Laboratory Flag	RPD	Validation Result (mg/kg)	Validation Qualifier	Reason Code
DUP2	Acenaphthylene	0.46	NA	59	0.46	J	7
WINDROW1, SEC 3, C	Acenaphthylene	0.25	NA		0.25	J	7
DUP2	Phenanthrene	0.21	F1	60	0.21	J	7
WINDROW1, SEC 3, C	Phenanthrene	0.39	NA		0.39	J	7

mg/kg-milligrams per kilogram
F1-laboratory flag indicating the MS and/or MSD recovery is outside acceptance limits
NA-not applicable

2.8 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were reported due to the dilutions analyzed.

2.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II reports and the EDDs.

3.0 POLYCHLORINATED BIPHENYLS

The samples were analyzed for PCBs by EPA Methods 3541/8082A.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

⊗ Overall Assessment
✓ Holding Times
✓ Method Blank
✓ Matrix Spike/Matrix Spike Duplicate
✓ Laboratory Control Sample
✓ Surrogates
✓ Field Duplicate
✓ Sensitivity
✓ Electronic Data Deliverable Review

3.1 Overall Assessment

The PCB data reported in this package are considered usable for meeting project objectives. The analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this sample set is 100%.

The samples contain mixtures of PCBs 1248, 1254 and 1260. There are peaks in 1248 and 1254 that are in both of these PCBs and peaks in 1254 and 1260 that are in both of these PCBs; therefore, there is contribution between PCBs when more than one PCB is detected in a sample. Therefore, based on professional and technical judgment, the concentrations of PCBs PCBs 1248, 1254 and 1260 in these samples were J qualified as estimated.

Sample ID	Compound	Laboratory Concentration (mg/kg)	Laboratory Flag	Validation Concentration (mg/kg)	Validation Qualifier	Reason Code
DUP2	PCB-1248	1.1	NA	1.1	J	13
DUP2	PCB-1254	0.70	NA	0.70	J	13
DUP2	PCB-1260	0.17	NA	0.17	J	13
WINDROW1, SEC 1, C	PCB-1248	1.3	NA	1.3	J	13
WINDROW1, SEC 1, C	PCB-1254	0.82	NA	0.82	J	13
WINDROW1, SEC 1, C	PCB-1260	0.22	NA	0.22	J	13
WINDROW1, SEC 2, C	PCB-1248	1.1	NA	1.1	J	13

Sample ID	Compound	Laboratory Concentration (mg/kg)	Laboratory Flag	Validation Concentration (mg/kg)	Validation Qualifier	Reason Code
WINDROW1, SEC 2, C	PCB-1254	0.68	NA	0.68	J	13
WINDROW1, SEC 2, C	PCB-1260	0.18	NA	0.18	J	13
WINDROW1, SEC 3, C	PCB-1248	1.0	NA	1.0	J	13
WINDROW1, SEC 3, C	PCB-1254	0.67	NA	0.67	J	13
WINDROW1, SEC 3, C	PCB-1260	0.17	NA	0.17	J	13
WINDROW1, SEC 4, C	PCB-1248	0.91	NA	0.91	J	13
WINDROW1, SEC 4, C	PCB-1254	0.60	NA	0.60	J	13
WINDROW1, SEC 4, C	PCB-1260	0.17	NA	0.17	J	13

mg/kg-milligrams per kilogram
NA-not applicable

3.2 Holding Times

The holding times for the PCB analysis of solids are 14 days from sample collection to extraction and 40 days from extraction to analysis. The holding times were met for the sample analyses.

3.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 216674). PCBs were not detected in the method blank above the MDLs.

3.4 Matrix Spike/Matrix Spike Duplicate

MS/MSD pairs were not reported.

3.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery results were within the laboratory specified acceptance criteria.

3.6 Surrogates

Acceptable surrogate recoveries were reported.

3.7 Field Duplicate

Two field duplicates were collected with the sample set. One field duplicate was analyzed for PCBs, DUP2. Acceptable precision [RPD <40% for results greater than five times the RL and ±2 times the RL for results less than five times the RL] was demonstrated between the field duplicates and the original sample, Windrow 1,Sec 3, C.

3.8 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were not reported.

3.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No other discrepancies were identified between the level II report and the EDD.

5.0 METALS

The samples were analyzed for metals by EPA methods 3050B/6010C (Mercury evaluated separately in Section 6.0, below).

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

5.1 Overall Assessment

The metals data reported in this package are considered usable for meeting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this package is 100%.

5.2 Holding Times

The holding time for metals analysis of solid samples is 180 days from sample collection to analysis. The holding times were met for the sample analyses.

5.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 216814). The metals were not detected in the method blank above the MDLs.

5.4 Matrix Spike/Matrix Spike Duplicate

MS/MSD pairs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). A sample set specific MS/MSD pair was reported, using sample DUP2. The recovery and RPD results were within the laboratory specified acceptance criteria.

5.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery results were within the laboratory specified acceptance criteria.

5.6 Laboratory Duplicate

A laboratory duplicate was not reported with the sample set.

5.7 Field Duplicate

Two field duplicates were collected with the sample set. One field duplicate was analyzed for metals, DUP2. Acceptable precision [RPD <40% for results greater than five times the RL and ±2 times the RL for results less than five times the RL] was demonstrated between the field duplicates and the original sample, Windrow 1,Sec 3, C.

5.8 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were not reported.

5.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

6.0 MERCURY

The samples were analyzed for mercury by EPA methods 7471B.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

✓ Overall Assessment
✓ Holding Times
✓ Method Blank
✓ Matrix Spike/Matrix Spike Duplicate
✓ Laboratory Control Sample
✓ Laboratory Duplicate
⊗ Field Duplicate
✓ Sensitivity
✓ Electronic Data Deliverable Review

6.1 Overall Assessment

The mercury data reported in this package are considered usable for meeting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this package is 100%.

6.2 Holding Times

The holding time for the mercury analysis of solid samples is 28 days from sample collection to analysis. The holding times were met for the sample analyses.

6.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 216844). Mercury was not detected in the method blank above the MDL.

6.4 Matrix Spike/Matrix Spike Duplicate

MS/MSD pairs were not reported.

6.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery result was within the laboratory specified acceptance criteria.

6.6 Laboratory Duplicate

A laboratory duplicate was not reported.

6.7 Field Duplicate

Two field duplicates were collected with the sample set. One field duplicate was analyzed for mercury, DUP2. Acceptable precision [RPD <40% for results greater than five times the RL and ±2 times the RL for results less than five times the RL] was not demonstrated between the field duplicates and the original sample, Windrow 1,Sec 3, C. The RPD was high and outside the field duplicate acceptance criteria. Therefore, the concentrations of mercury in the field duplicate pair were J qualified as estimated.

Sample	Compound	Laboratory Result (mg/kg)	Laboratory Flag	RPD	Validation Result (mg/kg)	Validation Qualifier	Reason Code
DUP2	Mercury	0.26	NA	53	0.26	J	7
WINDROW1, SEC 3, C	Mercury	0.45	NA		0.45	J	7

mg/kg-milligrams per kilogram
NA-not applicable

6.8 Sensitivity

The samples were reported to the MDL. Elevated non-detect results were not reported.

6.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

7.0 TOTAL CYANIDE

The samples were analyzed for total cyanide by EPA Methods 9014.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Equipment Blank
- ✓ Sensitivity
- ✓ Electronic Data Deliverables Review

7.1 Overall Assessment

The cyanide data reported in this package are considered usable for meeting project objectives. The analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this package is 100%.

7.2 Holding Times

The holding time for the cyanide analysis of solid samples is 14 days from sample collection to analysis. The holding times were met for the sample analyses.

7.3 Method Blanks

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 216711). Cyanide was not detected in the method blank above the MDL.

7.4 Matrix Spike

MS/MSD pairs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). A sample set specific MS/MSD pair was reported, using sample WINDROW1, SEC 3, C. The recovery and RPD results were within the laboratory specified acceptance criteria.

7.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Three LCSs were reported. The recovery results were within the laboratory specified acceptance criteria.

7.6 Laboratory Duplicate

A laboratory duplicate was not reported.

7.7 Field Duplicate

Two field duplicates were collected with the sample set. One field duplicate was analyzed for cyanide, DUP2. Acceptable precision [RPD <40% for results greater than five times the RL and ±2 times the RL for results less than five times the RL] was demonstrated between the field duplicates and the original sample, Windrow 1,Sec 3, C.

7.8 Sensitivity

The samples were reported to the MDL. Elevated non-detect results were not reported.

7.9 Electronic Data Deliverables Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

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ATTACHMENT 1
DATA VALIDATION QUALIFIER DEFINITIONS AND INTERPRETATION KEY
Assigned by Geosyntec's Data Validation Team

DATA QUALIFIER DEFINITIONS

U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

J+ The analyte was positively identified; however, the associated numerical value is likely to be higher that the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.

J- The analyte was positively identified; however, the associated numerical value is likely to be lower that the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ATTACHMENT 2
DATA VALIDATION REASON CODES
Assigned by Geosyntec's Data Validation Team

Valid Value	Description
1	Preservation requirement not met
2	Analysis holding time exceeded
3	Blank contamination (i.e., method, trip, equipment, etc.)
4	Matrix spike/matrix spike duplicate recovery or RPD outside limits
5	LCS recovery outside limits
6	Surrogate recovery outside limits
7	Field Duplicate RPD exceeded
8	Serial dilution percent difference exceeded
9	Calibration criteria not met
10	Linear range exceeded
11	Internal standard criteria not met
12	Lab duplicates RPD exceeded
13	Other

RPD-relative percent difference

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Memorandum

Date:	18 July 2017
To:	Aron Krasnopoler
From:	Mary Tyler
CC:	J. Caprio
Subject:	**Stage 2A Data Validation - Level II Data Deliverable, TestAmerica Job ID 180-68037-2**

SITE: Former Sperry Remington Site-North IRM

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of one trip blank, collected July 10, 2017, as part of the Former Sperry Remington Site-North IRM project. The analyses were performed at TestAmerica Laboratories, Inc., Pittsburgh, Pennsylvania. The sample was analyzed for the following test:

- Volatile Organic Compounds (VOCs) by EPA Methods 8260C

EXECUTIVE SUMMARY

Overall, based on this Stage 2A data validation covering the quality control (QC) parameters listed below, the data are usable for meeting project objectives.

The data were validated based on the Quality Assurance Project Plan (QAPP) for Former Sperry Remington Facility Industrial Outfall Site, Elmira, New York, NYSDEC Site I.D. # 808043, NY09-2480-04, July 7, 2010, Revised November 11, 2010, USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review, January 2017 (EPA 540-R-2017-002), the pertinent method referenced by the laboratory report and professional and technical judgment.

The following sample was analyzed and validated at Stage 2A level in the data set:

Laboratory ID	Client ID
180-68037-15	TRIP BLANK

The trip blank and associated samples were received at the laboratory at 1.9-2.3ºC, within the criteria of 0-6ºC. No sample preservation issues were noted by the laboratory.

The following issues were noted with the chain of custody (COC):

- Incorrect error corrections were observed on the COC, instead of the proper procedure of a single strike through, correction, and initials and date of person making the corrections.
- No collection times were listed on the COC for the field duplicate samples; the laboratory assigned collection times of 00:00.
- There was no relinquishing signature on the first page of the COC and no relinquishing documentation (no signature, date or time) on the second page of the COC.

The associated solid samples were reported in laboratory report 180-68037-1.

1.0 VOLATILE ORGANIC COMPOUNDS

The trip blank was analyzed for VOCs by EPA method 8260B.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

✓ Overall Assessment
✓ Holding Times
✓ Method Blank
✓ Matrix Spike/Matrix Spike Duplicate
✓ Laboratory Control Sample
✓ Surrogates
✓ Trip Blank
✓ Field Duplicate
✓ Sensitivity
✓ Electronic Data Deliverable Review

1.1 Overall Assessment

The VOC data reported in this package are considered usable for meeting project objectives. The analytical completeness defined as the ratio of the number of valid analytical results (valid

analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this data set is 100%.

The narrative indicated that the continuing calibration verification (CCV) percent difference (%D) for vinyl chloride was high, outside method specified acceptance criteria. The %D was 20.1%; the method specified acceptance criteria is 20%D. Therefore, no qualifications were applied to the data.

1.2 Holding Times

The holding time for the VOC analysis of a preserved water sample is 14 days from sample collection to analysis. The holding time was met for the sample analysis.

1.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 217200). VOCs were not detected in the method blank above the MDLs.

1.4 Matrix Spike/Matrix Spike Duplicate (MS/MSD)

MS/MSD pairs were not reported.

1.5 Laboratory Control Sample (LCS)

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS/LCS duplicate (LCSD) pair was reported. The recovery and relative percent difference (RPD) results were within the laboratory specified acceptance criteria, with the following exception.

The LCS recovery of n-butylbenzene was high and outside the laboratory specified acceptance criteria. Since n-butylbenzene was not detected in the associated sample, no qualifications were applied to the data.

1.6 Surrogates

Acceptable surrogate recoveries were reported.

1.7 Trip Blank

A trip blank accompanied the associated solid samples, TRIP BLANK. VOCs were not detected in the trip blank above the MDLs.

1.8 Field Duplicate

Two field duplicates were collected with the sample set. The assessments of the field duplicates are summarized in laboratory report 180-68037-1.

1.9 Sensitivity

The sample was reported to the MDLs. Elevated non-detect results were not reported.

1.10 Electronic Data Deliverable (EDD) Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

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* * * * *

ATTACHMENT 1
DATA VALIDATION QUALIFIER DEFINITIONS AND INTERPRETATION KEY
Assigned by Geosyntec's Data Validation Team

DATA QUALIFIER DEFINITIONS

U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

J+ The analyte was positively identified; however, the associated numerical value is likely to be higher that the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.

J- The analyte was positively identified; however, the associated numerical value is likely to be lower that the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ATTACHMENT 2
DATA VALIDATION REASON CODES
Assigned by Geosyntec's Data Validation Team

Valid Value	Description
1	Preservation requirement not met
2	Analysis holding time exceeded
3	Blank contamination (i.e., method, trip, equipment, etc.)
4	Matrix spike/matrix spike duplicate recovery or RPD outside limits
5	LCS recovery outside limits
6	Surrogate recovery outside limits
7	Field Duplicate RPD exceeded
8	Serial dilution percent difference exceeded
9	Calibration criteria not met
10	Linear range exceeded
11	Internal standard criteria not met
12	Lab duplicates RPD exceeded
13	Other

RPD-relative percent difference

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Memorandum

Date:	20 July 2017
To:	Aron Krasnopoler
From:	Mary Tyler
CC:	J. Caprio
Subject:	**Stage 2A Data Validation - Level II Data Deliverable, TestAmerica Job ID 180-68140-1**

SITE: Former Sperry Remington Site-North IRM

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of twenty solid samples, including one sample for matrix spike/matrix spike duplicate (MS/MSD) analyses, three field duplicate samples and two trip blanks, collected July 12, 2017, as part of the Former Sperry Remington Site-North IRM project. The analyses were performed at TestAmerica Laboratories, Inc., Pittsburgh, Pennsylvania. The samples were analyzed for the following tests:

- Volatile Organic Compounds (VOCs) by EPA Methods 5035/8260C
- Semivolatile Organic Compounds (SVOCs) by EPA Methods 3541/8270D
- Polychlorinated Biphenyls (PCBs) by EPA Methods 3541/8082A
- Metals by EPA Methods 3050B/6010C
- Mercury by EPA Method 7471B
- Total Cyanide by EPA Method 9014
- Total Solids by Standard Method 2540G

EXECUTIVE SUMMARY

The samples were handled, prepared, and measured in the same manner under similar prescribed conditions.

Overall, based on this Stage 2A data validation covering the quality control (QC) parameters listed below, the data as qualified are usable for meeting project objectives. The qualified data should be used within the limitations of the qualifications.

The data were validated based on the Quality Assurance Project Plan (QAPP) for Former Sperry Remington Facility Industrial Outfall Site, Elmira, New York, NYSDEC Site I.D. # 808043, NY09-2480-04, July 7, 2010, Revised November 11, 2010, USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review, January 2017 (EPA 540-R-2017-002), USEPA Contract Laboratory Program National Functional Guidelines for Superfund Inorganic Methods Data Review, January 2017 (EPA 540-R-2017-001), the pertinent methods referenced by the laboratory report and professional and technical judgment.

The following samples were analyzed and validated at Stage 2A level in the data set:

Laboratory ID	Client ID
180-68140-3	W4, S1, C 71217
180-68140-6	W4, S2, C 71217
180-68140-9	W4, S3, C 71217
180-68140-12	W4, S4, C 71217
180-68140-15	W4, S5, C 71217
180-68140-16	W5, S5, A 71217
180-68140-17	W5, S5, B 71217
180-68140-18	W5, S5, C 71217
180-68140-19	W5, S4, A 71217
180-68140-20	W5, S4, B 71217
180-68140-21	W5, S4, C 71217
180-68140-22	W5, S3, A 71217
180-68140-23	W5, S3, B 71217

Laboratory ID	Client ID
180-68140-24	W5, S3, C 71217
180-68140-25	W5, S2, A 71217
180-68140-26	W5, S2, B 71217
180-68140-27	W5, S2, C 71217
180-68140-28	W5, S1, A 71217
180-68140-29	W5, S1, B 71217
180-68140-30	W5, S1, C 71217
180-68140-31	DUP-6
180-68140-32	DUP-7
180-68140-33	DUP-8
180-68140-34	TRIP BLANK 1
180-68140-35	TRIP BLANK 2

The samples were received at the laboratory at 0.8-2.6^{o}C, within the criteria of 0-6°C. No sample preservation issues were noted by the laboratory.

The following issues were noted with the chain of custody (COC):

- Incorrect error corrections were observed on the COC, instead of the proper procedure of a single strike through, correction, and initials and date of person making the corrections.

- No collection times were listed on the COC for the field duplicate samples; the laboratory assigned collection times of 00:00.

- Ten solid samples for VOC analysis were listed on the COC, but not reported in this laboratory report. Per the report narrative, the cooler containing these samples was delaying in shipping. The VOC samples for the ten samples were re-collected and reported in laboratory report 180-68219-2.

- There were no times of collection documented on the COC for the trip blanks; in addition, the collection dates were crossed off. The laboratory assigned collection dates and times of 7/12/17, 00:00.

The solids data, used to report the samples on a dry weight basis, were not validated.

1.0 VOLATILE ORGANIC COMPOUNDS

The samples were analyzed for VOCs by EPA methods 5035/8260B.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

⊗ Overall Assessment
✓ Holding Times
✓ Method Blank
✓ Matrix Spike/Matrix Spike Duplicate
✓ Laboratory Control Sample
✓ Surrogates
✓ Trip Blank
✓ Field Duplicate
✓ Sensitivity
✓ Electronic Data Deliverable Review

1.1 Overall Assessment

The VOC data reported in this package are considered usable for meeting project objectives. The analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this data set is 100%.

The narrative indicated that the continuing calibration verification (CCV) percent difference (%D) for carbon tetrachloride was high, outside method specified acceptance criteria in analytical batch 217186. The %D was 22%D, with a high bias; the method limit is 20%D. Since the %D was within the validation guidance, no qualifications were applied to the data.

In addition, the narrative indicated that the internal standard response for 1,4-dichlorobenzene-d4 was low and outside the method specified acceptance criteria in sample W5, S1, A 71217.

Therefore, the nondetect results of the associated compounds in sample W5, S1, A 71217 were UJ qualified as estimated less than the method detection limits (MDLs).

Sample	Compound	Laboratory Result (µg/L)	Laboratory Flag	Validation Result (µg/L)	Validation Qualifier*	Reason Code**
W5, S1, A 71217	1,2,4-Trimethylbenzene	0.0012	U,*	0.0012	UJ	11
W5, S1, A 71217	1,2-Dichlorobenzene	0.0037	U,*	0.0037	UJ	11
W5, S1, A 71217	1,3,5-Trimethylbenzene	0.0016	U,*	0.0016	UJ	11
W5, S1, A 71217	1,3-Dichlorobenzene	0.0015	U,*	0.0015	UJ	11
W5, S1, A 71217	1,4-Dichlorobenzene	0.00093	U,*	0.00093	UJ	11
W5, S1, A 71217	n-Butylbenzene	0.0035	U,*	0.0035	UJ	11
W5, S1, A 71217	N-Propylbenzene	0.0019	U,*	0.0019	UJ	11
W5, S1, A 71217	sec-Butylbenzene	0.0022	U,*	0.0022	UJ	11
W5, S1, A 71217	tert-Butylbenzene	0.0017	U,*	0.0017	UJ	11

µg/L-micrograms per liter
U- not detected at or above the stated MDL
*-laboratory flag indicating the internal standard response or retention time was outside the acceptance limits
* Validation qualifiers are defined in Attachment 1 at the end of this report
**Reason codes are defined in Attachment 2 at the end of this report

1.2 Holding Times

The holding time for the VOC analysis of a preserved solid sample collected as a terracore is 48 hours until laboratory receipt and 14 days from sample collection to analysis. The holding time for the VOC analysis of a preserved water sample is 14 days from sample collection to analysis. The holding times were met for the sample analyses.

1.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Three method blanks were reported (batches 217186, 217209 and 217455). VOCs were not detected in the method blanks above the MDLs.

1.4 Matrix Spike/Matrix Spike Duplicate (MS/MSD)

MS/MSD pairs were not reported.

1.5 Laboratory Control Sample (LCS)

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two LCSs and one LCS/LCS duplicate (LCSD) pair were reported. The recovery and relative percent difference (RPD) results were within the laboratory specified acceptance criteria.

1.6 Surrogates

Acceptable surrogate recoveries were reported.

1.7 Trip Blank

Two trip blanks accompanied the samples, TRIP BLANK 1 and TRIP BLANK 2. VOCs were not detected in the trip blanks above the MDLs, with the following exceptions.

Acetone was detected at an estimated concentration greater than the MDL and less than the RL in both trip blanks. Since acetone was not detected in the associated samples, no qualifications were applied to the data.

1.8 Field Duplicate

Three field duplicates were collected with the sample set. Two field duplicates were analyzed for VOCs, DUP-7 and DUP-8. It was noted that the original sample associated with DUP-7 (collected on 7/12/17) was recollected on 7/13/17. Therefore, assessment of this field duplicate pair could not be performed. Acceptable precision (RPD <40% for results greater than five times the RL and ±2 times the RL for results less than five times the RL) was demonstrated between field duplicate DUP-8 and the original sample W5, S4, B71217. The RPDs between the results were 0%.

1.9 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were not reported.

1.10 Electronic Data Deliverable (EDD) Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

2.0 SEMIVOLATILE ORGANIC COMPOUNDS

The samples were analyzed for SVOCs by EPA methods 3541/8270D.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

✓ Overall Assessment
✓ Holding Times
✓ Method Blank
✓ Matrix Spike/Matrix Spike Duplicate
✓ Laboratory Control Sample
✓ Surrogates
⊗ Field Duplicate
✓ Sensitivity
✓ Electronic Data Deliverable Review

2.1 Overall Assessment

The SVOC data reported in this package are considered usable for meeting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this data set is 100%.

The narrative indicated that the CCV %D for pentachlorophenol was high, outside method specified acceptance criteria in analytical batch 217242, with a high bias; the %D was 51%D and the method limit is 20%D. Since the bias was high and pentachlorophenol was not detected in the associated samples, no qualifications were applied to the data. In addition, the CCV %D for benzo[g,h,i]perylene was high, outside method specified acceptance criteria in analytical batch 217242, with a low bias; the %D was 21%D and the method limit is 20%D. Since the %D for benzo[g,h,i]perylene was within the validation guidance, no qualifications were applied to the benzo[g,h,i]perylene data.

2.2 Holding Times

The holding times for SVOC analysis of solid samples are 14 days from sample collection to extraction and 40 days from extraction to analysis. The holding times were met for the sample analyses.

2.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 217139). SVOCs were not detected in the method blank above the MDLs.

2.4 Matrix Spike/Matrix Spike Duplicate

MS/MSD pairs were not reported.

2.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery results were within the laboratory specified acceptance criteria.

2.6 Surrogates

Acceptable surrogate recoveries were reported.

2.7 Field Duplicate

Three field duplicates were collected with the sample set. One field duplicate was analyzed for SVOCs, DUP-6. Acceptable precision (RPD <40% for results greater than five times the RL and ±2 times the RL for results less than five times the RL) was demonstrated between the field duplicate and the original sample, W4, S2, C 71217, with the following exceptions.

The field duplicate acceptance criteria were not met for the following SVOCs: Acenaphthylene, benzo[a]anthracene, benzo[a]pyrene, benzo[b]fluoranthene, benzo[g,h,i]perylene, chrysene, fluoranthene, indeno[1,2,3-cd]pyrene, phenanthrene and pyrene. Therefore, based on professional and technical judgment, the concentrations of these SVOCs in the field duplicate pair were J qualified as estimated.

The qualifications due to the field duplicate results are summarized below.

Sample	Compound	Laboratory Result (mg/kg)	Laboratory Flag	RPD	Validation Result (mg/kg)	Validation Qualifier	Reason Code
DUP-6	Acenaphthylene	0.23	NA	93	0.23	J	7
W4, S2, C 71217	Acenaphthylene	0.084	NA		0.084	J	7
DUP-6	Benzo[a]anthracene	1.0	NA	113	1.0	J	7
W4, S2, C 71217	Benzo[a]anthracene	0.28	NA		0.28	J	7
DUP-6	Benzo[a]pyrene	0.90	NA	98	0.90	J	7
W4, S2, C 71217	Benzo[a]pyrene	0.31	NA		0.31	J	7
DUP-6	Benzo[b]fluoranthene	1.1	NA	93	1.1	J	7
W4, S2, C 71217	Benzo[b]fluoranthene	0.40	NA		0.40	J	7
DUP-6	Benzo[g,h,i]perylene	0.81	NA	66	0.81	J	7
W4, S2, C 71217	Benzo[g,h,i]perylene	0.41	NA		0.41	J	7
DUP-6	Chrysene	0.91	NA	108	0.91	J	7
W4, S2, C 71217	Chrysene	0.27	NA		0.27	J	7
DUP-6	Fluoranthene	2.0	NA	129	2.0	J	7
W4, S2, C 71217	Fluoranthene	0.43	NA		0.43	J	7
DUP-6	Indeno[1,2,3-cd]pyrene	0.79	NA	82	0.79	J	7
W4, S2, C 71217	Indeno[1,2,3-cd]pyrene	0.33	NA		0.33	J	7
DUP-6	Phenanthrene	0.96	NA	140	0.96	J	7
W4, S2, C 71217	Phenanthrene	0.17	NA		0.17	J	7
DUP-6	Pyrene	1.4	NA	116	1.4	J	7
W4, S2, C 71217	Pyrene	0.37	NA		0.37	J	7

mg/kg-milligrams per kilogram
NA-not applicable

2.8 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were reported due to the dilutions analyzed.

2.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II reports and the EDDs.

3.0 POLYCHLORINATED BIPHENYLS

The samples were analyzed for PCBs by EPA Methods 3541/8082A.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

⊗ Overall Assessment
✓ Holding Times
✓ Method Blank
✓ Matrix Spike/Matrix Spike Duplicate
✓ Laboratory Control Sample
✓ Surrogates
✓ Field Duplicate
✓ Sensitivity
✓ Electronic Data Deliverable Review

3.1 Overall Assessment

The PCB data reported in this package are considered usable for meeting project objectives. The analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this data set is 100%.

The samples contain mixtures of PCBs 1248, 1254 and 1260. There are peaks in 1248 and 1254 that are in both of these PCBs and peaks in 1254 and 1260 that are in both of these PCBs; therefore, there is contribution between PCBs when more than one PCB is detected in a sample. Therefore, based on professional and technical judgment, the concentrations of PCBs 1248, 1254 and 1260 in these samples were J qualified as estimated.

Sample ID	Compound	Laboratory Concentration (mg/kg)	Laboratory Flag	Validation Concentration (mg/kg)	Validation Qualifier	Reason Code
DUP-6	PCB-1248	0.72	NA	0.72	J	13
DUP-6	PCB-1254	0.44	NA	0.44	J	13
DUP-6	PCB-1260	0.13	NA	0.13	J	13
W4, S1, C 71217	PCB-1248	0.55	NA	0.55	J	13
W4, S1, C 71217	PCB-1254	0.39	NA	0.39	J	13
W4, S1, C 71217	PCB-1260	0.12	NA	0.12	J	13
W4, S2, C 71217	PCB-1248	0.60	NA	0.60	J	13
W4, S2, C 71217	PCB-1254	0.43	NA	0.43	J	13
W4, S2, C 71217	PCB-1260	0.12	NA	0.12	J	13
W4, S3, C 71217	PCB-1248	0.71	NA	0.71	J	13
W4, S3, C 71217	PCB-1254	0.50	NA	0.50	J	13
W4, S3, C 71217	PCB-1260	0.15	NA	0.15	J	13
W4, S4, C 71217	PCB-1248	0.72	NA	0.72	J	13
W4, S4, C 71217	PCB-1254	0.51	NA	0.51	J	13
W4, S4, C 71217	PCB-1260	0.15	NA	0.15	J	13
W4, S5, C 71217	PCB-1248	0.61	NA	0.61	J	13
W4, S5, C 71217	PCB-1254	0.41	NA	0.41	J	13
W4, S5, C 71217	PCB-1260	0.12	NA	0.12	J	13
W5, S1, C 71217	PCB-1248	0.56	NA	0.56	J	13
W5, S1, C 71217	PCB-1254	0.36	NA	0.36	J	13
W5, S1, C 71217	PCB-1260	0.11	NA	0.11	J	13
W5, S2, C 71217	PCB-1248	0.48	NA	0.48	J	13
W5, S2, C 71217	PCB-1254	0.30	NA	0.30	J	13
W5, S2, C 71217	PCB-1260	0.089	NA	0.089	J	13
W5, S3, C 71217	PCB-1248	0.71	NA	0.71	J	13
W5, S3, C 71217	PCB-1254	0.47	NA	0.47	J	13
W5, S3, C 71217	PCB-1260	0.14	NA	0.14	J	13
W5, S4, C 71217	PCB-1248	0.91	NA	0.91	J	13
W5, S4, C 71217	PCB-1254	0.64	NA	0.64	J	13
W5, S4, C 71217	PCB-1260	0.19	NA	0.19	J	13
W5, S5, C 71217	PCB-1248	0.68	NA	0.68	J	13
W5, S5, C 71217	PCB-1254	0.46	NA	0.46	J	13
W5, S5, C 71217	PCB-1260	0.14	NA	0.14	J	13

mg/kg-milligrams per kilogram
NA-not applicable

3.2 Holding Times

The holding times for the PCB analysis of solids are 14 days from sample collection to extraction and 40 days from extraction to analysis. The holding times were met for the sample analyses.

3.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 217140). PCBs were not detected in the method blank above the MDLs.

3.4 Matrix Spike/Matrix Spike Duplicate

MS/MSD pairs were not reported.

3.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery results were within the laboratory specified acceptance criteria.

3.6 Surrogates

Acceptable surrogate recoveries were reported.

3.7 Field Duplicate

Three field duplicates were collected with the sample set. One field duplicate was analyzed for PCBs, DUP-6. Acceptable precision (RPD <40% for results greater than five times the RL and ±2 times the RL for results less than five times the RL) was demonstrated between the field duplicate and the original sample, W4, S2, C 71217.

3.8 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were not reported.

3.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No other discrepancies were identified between the level II report and the EDD.

5.0 METALS

The samples were analyzed for metals by EPA methods 3050B/6010C (Mercury evaluated separately in Section 6.0, below).

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Serial Dilution
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

5.1 Overall Assessment

The metals data reported in this package are considered usable for meeting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this data set is 100%.

5.2 Holding Times

The holding time for metals analysis of solid samples is 180 days from sample collection to analysis. The holding times were met for the sample analyses.

5.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 217101). The metals were not detected in the method blank above the MDLs.

5.4 Matrix Spike/Matrix Spike Duplicate

MS/MSD pairs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). A batch MS/MSD pair was reported. Since this is batch QC, the results do not impact the data.

5.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery results were within the laboratory specified acceptance criteria.

5.6 Laboratory Duplicate

A laboratory duplicate was not reported with the sample set.

5.7 Serial Dilution

A serial dilution was not reported.

5.8 Field Duplicate

Three field duplicates were collected with the sample set. One field duplicate was analyzed for PCBs, DUP-6. Acceptable precision (RPD <40% for results greater than five times the RL and ±2 times the RL for results less than five times the RL) was demonstrated between the field duplicate and the original sample, W4, S2, C 71217.

5.9 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were not reported.

5.10 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

6.0 MERCURY

The samples were analyzed for mercury by EPA methods 7471B.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

✓ Overall Assessment
✓ Holding Times
✓ Method Blank
⊗ Matrix Spike/Matrix Spike Duplicate
✓ Laboratory Control Sample
✓ Laboratory Duplicate
✓ Field Duplicate
✓ Sensitivity
✓ Electronic Data Deliverable Review

6.1 Overall Assessment

The mercury data reported in this package are considered usable for meeting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this data set is 100%.

6.2 Holding Times

The holding time for the mercury analysis of solid samples is 28 days from sample collection to analysis. The holding times were met for the sample analyses.

6.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 217422). Mercury was not detected in the method blank above the MDL.

6.4 Matrix Spike/Matrix Spike Duplicate

MS/MSD pairs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). A sample set specific MS/MSD pair was reported, using sample W4, S1, C 71217. The recovery and RPD results were high and outside the laboratory specified acceptance criteria. Therefore, the concentration of mercury in sample W4, S1, C 71217 was J+ qualified as estimated with a high bias.

Sample	Compound	Laboratory Result (mg/kg)	Laboratory Flag	Validation Result (mg/kg)	Validation Qualifier	Reason Code
W4, S1, C 71217	Mercury	0.16	F1,F2	0.16	J+	4

mg/kg-milligrams per kilogram
F1-laboratory flag indicating the MS and/or MSD recovery is outside acceptance limits
F2-laboratory flag indicating the MS/MSD RPD exceeds control limits

6.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery result was within the laboratory specified acceptance criteria.

6.6 Laboratory Duplicate

A laboratory duplicate was not reported.

6.7 Field Duplicate

Three field duplicates were collected with the sample set. One field duplicate was analyzed for mercury, DUP-6. Acceptable precision (RPD <40% for results greater than five times the RL and ±2 times the RL for results less than five times the RL) was demonstrated between the field duplicates and the original sample W4, S2, C 71217.

6.8 Sensitivity

The samples were reported to the MDL. Elevated non-detect results were not reported.

6.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

7.0 TOTAL CYANIDE

The samples were analyzed for total cyanide by EPA Methods 9014.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues

were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Equipment Blank
- ✓ Sensitivity
- ✓ Electronic Data Deliverables Review

7.1 Overall Assessment

The cyanide data reported in this package are considered usable for meeting project objectives. The analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this data set is 100%.

7.2 Holding Times

The holding time for the cyanide analysis of solid samples is 14 days from sample collection to analysis. The holding times were met for the sample analyses.

7.3 Method Blanks

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 217382). Cyanide was not detected in the method blank above the MDL.

7.4 Matrix Spike/Matrix Spike Duplicate

MS/MSD pairs were not reported

7.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Three LCSs were reported. The recovery results were within the laboratory specified acceptance criteria.

7.6 Laboratory Duplicate

A laboratory duplicate was not reported.

7.7 Field Duplicate

Three field duplicates were collected with the sample set. One field duplicate was analyzed for cyanide, DUP-6. Acceptable precision (RPD <40% for results greater than five times the RL and ±2 times the RL for results less than five times the RL) was demonstrated between the field duplicate and the original sample, W4, S2, C 71217.

7.8 Sensitivity

The samples were reported to the MDL. Elevated non-detect results were not reported.

7.9 Electronic Data Deliverables Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

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ATTACHMENT 1
DATA VALIDATION QUALIFIER DEFINITIONS AND INTERPRETATION KEY
Assigned by Geosyntec's Data Validation Team

DATA QUALIFIER DEFINITIONS

U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

J+ The analyte was positively identified; however, the associated numerical value is likely to be higher that the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.

J- The analyte was positively identified; however, the associated numerical value is likely to be lower that the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ATTACHMENT 2
DATA VALIDATION REASON CODES
Assigned by Geosyntec's Data Validation Team

Valid Value	Description
1	Preservation requirement not met
2	Analysis holding time exceeded
3	Blank contamination (i.e., method, trip, equipment, etc.)
4	Matrix spike/matrix spike duplicate recovery or RPD outside limits
5	LCS recovery outside limits
6	Surrogate recovery outside limits
7	Field Duplicate RPD exceeded
8	Serial dilution percent difference exceeded
9	Calibration criteria not met
10	Linear range exceeded
11	Internal standard criteria not met
12	Lab duplicates RPD exceeded
13	Other

RPD-relative percent difference

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Memorandum

Date:	27 July 2017
To:	Aron Krasnopoler
From:	Mary Tyler
CC:	J. Caprio
Subject:	**Stage 2A Data Validation - Level II Data Deliverable, TestAmerica Job ID 180-68219-1**

SITE: Former Sperry Remington Site-North IRM

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of thirty-nine solid samples, including six samples for matrix spike/matrix spike duplicate (MS/MSD) analyses, four trip blanks and five field duplicate samples, collected July 13, 2017, as part of the Former Sperry Remington Site-North IRM project. The analyses were performed at TestAmerica Laboratories, Inc., Pittsburgh, Pennsylvania. The samples were analyzed for the following tests:

- Volatile Organic Compounds (VOCs) by EPA Methods 5035/8260C and 8260C
- Semivolatile Organic Compounds (SVOCs) by EPA Methods 3541/8270D
- Polychlorinated Biphenyls (PCBs) by EPA Methods 3541/8082A
- Metals by EPA Methods 3050B/6010C
- Mercury by EPA Method 7471B
- Total Cyanide by EPA Method 9014
- Total Solids by Standard Method 2540G

EXECUTIVE SUMMARY

The samples were handled, prepared, and measured in the same manner under similar prescribed conditions.

Overall, based on this Stage 2A data validation covering the quality control (QC) parameters listed below, the data as qualified are usable for meeting project objectives. Qualified data should be used within the limitations of the qualification.

The data were validated the Quality Assurance Project Plan (QAPP) for Former Sperry Remington Facility Industrial Outfall Site, Elmira, New York, NYSDEC Site I.D. # 808043, NY09-2480-04, July 7, 2010, Revised November 11, 2010, USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review, January 2017 (EPA 540-R-2017-002), USEPA Contract Laboratory Program National Functional Guidelines for Superfund Inorganic Methods Data Review, January 2017 (EPA 540-R-2017-001), the pertinent methods referenced by the laboratory report and professional and technical judgment.

The following samples were analyzed and validated at Stage 2A level in the data sets:

Laboratory ID	Client ID
180-68219-1	W6, S1, A 071317
180-68219-1 MS	W6, S1, A 071317MS
180-68219-1 MSD	W6, S1, A 071317MSD
180-68219-2	W6, S1, B 071317
180-68219-3	W6, S1, C 071317
180-68219-3 MS	W6, S1, C 071317MS
180-68219-3 MSD	W6, S1, C 071317MSD
180-68219-4	W6, S2, A 071317
180-68219-5	W6, S2, B 071317
180-68219-6	W6, S2, C 071317
180-68219-7	W6, S3, A 071317
180-68219-8	W6, S3, B 071317
180-68219-9	W6, S3, C 071317
180-68219-10	W6, S4, A 071317
180-68219-11	W6, S4, B 071317
180-68219-12	W6, S4, C 071317
180-68219-12 MS	W6, S4, C 071317MS
180-68219-12 MSD	W6, S4, C 071317MSD
180-68219-13	W6, S5, A 071317
180-68219-14	W6, S5, B 071317
180-68219-15	W6, S5, C 071317
180-68219-16	W7, S5, A 71317
180-68219-17	W7, S5, B 71317
180-68219-18	W7, S5, C 71317
180-68219-19	W7, S4, A 71317
180-68219-20	W7, S4, B 71317
180-68219-21	W7, S4, C 71317
180-68219-21 MS	W7, S4, C 71317MS
180-68219-21 MSD	W7, S4, C 71317MSD
180-68219-22	W7, S3, A 71317

Laboratory ID	Client ID
180-68219-23	W7, S3, B 71317
180-68219-24	W7, S3, C 71317
180-68219-25	W7, S2, A 71317
180-68219-26	W7, S2, B 71317
180-68219-27	W7, S2, C 71317
180-68219-28	W7, S1, A 71317
180-68219-29	W7, S1, B 71317
180-68219-30	W7, S1, C 71317
180-68219-30 MS	W7, S1, C 71317MS
180-68219-30 MSD	W7, S1, C 71317MSD
180-68219-31	W8, S1, A 71317
180-68219-32	W8, S1, B 71317
180-68219-33	W8, S1, C 71317
180-68219-34	W8, S2, A 71317
180-68219-35	W8, S2, B 71317
180-68219-36	W8, S2, C 71317
180-68219-37	W8, S3, A 71317
180-68219-38	W8, S3, B 71317
180-68219-38 MS	W8, S3, B 71317MS
180-68219-38 MSD	W8, S3, B 71317MSD
180-68219-39	W8, S3, C 71317
180-68219-50	DUP-11
180-68219-51	DUP-12
180-68219-52	DUP-13
180-68219-53	DUP-9
180-68219-54	DUP-10
180-68219-55	TRIP BLANK 1
180-68219-56	TRIP BLANK 2
180-68219-57	TRIP BLANK 3
180-68219-58	TRIP BLANK 4

The samples were received at the laboratory at 2.4-4.8^{o}C, within the criteria of 0-6°C. No sample preservation issues were noted by the laboratory.

The following issues were noted with the chain of custody (COC):

- Incorrect error corrections were observed on the COC, instead of the proper procedure of a single strike through, correction, and initials and date of person making the corrections.
- No collection times were listed on the COC for the field duplicate samples; the laboratory assigned collection times of 00:00.
- TRIP BLANK 4 was received, but not listed on the COC.
- The container labels for the MS/MSD aliquots of sample W4, S4, A 71317 had collection times of 15:45, whereas the COC listed 15:15, the same collection time as the parent sample.

The results for the other samples listed on the COC were reported in laboratory report 180-68219-2.

The solids data, used to report the samples on a dry weight basis, were not validated.

1.0 VOLATILE ORGANIC COMPOUNDS

The samples were analyzed for VOCs by EPA methods 5035/8260C and 8260C.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

⊗ Overall Assessment
✓ Holding Times
✓ Method Blank
✓ Matrix Spike/Matrix Spike Duplicate
✓ Laboratory Control Sample
✓ Surrogates
✓ Trip Blank
✓ Field Duplicate
✓ Sensitivity
✓ Electronic Data Deliverable Review

1.1 Overall Assessment

The VOC data reported in this package are considered usable for meeting project objectives. The analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this package is 100%.

The narrative indicated that the continuing calibration verification (CCV) percent difference (%D) for vinyl chloride was high, outside method specified acceptance criteria in batch 217322 with a high bias. The %D was 23.8%. Since the %D was within the validation guidance acceptance criteria of 25%D, no qualifications were applied to the data.

The CCV %D for carbon tetrachloride was high, outside method specified acceptance criteria in batch 217610 with a low bias. The %D was 21.4%. Since the %D was within the validation guidance acceptance criteria of 25%D, no qualifications were applied to the data.

The CCV %Ds for n-butylbenzene and vinyl chloride were high, outside method specified acceptance criteria in batch 217455 with high biases. The %Ds were 21.1%D and 36.7%, respectively. Since these two compounds were not detected in the associated samples, no qualifications were applied to the data. In addition, the CCV %D for carbon tetrachloride was high, outside method specified acceptance criteria in batch 217455 with a low bias. The %D was 25.8%. Therefore, since the %D was outside both the method and validation acceptance criteria, the nondetect carbon tetrachloride results in the associated samples were UJ qualified as estimated less than the method detection limits (MDLs).

Sample	Compound	Laboratory Result (µg/L)	Laboratory Flag	Validation Result (µg/L)	Validation Qualifier*	Reason Code**
TRIP BLANK 1	Carbon tetrachloride	0.56	U	0.56	UJ	9
TRIP BLANK 2	Carbon tetrachloride	0.56	U	0.56	UJ	9
TRIP BLANK 3	Carbon tetrachloride	0.56	U	0.56	UJ	9
TRIP BLANK 4	Carbon tetrachloride	0.56	U	0.56	UJ	9

µg/L -micrograms per liter
U-not detected at or above the MDL
* Validation qualifiers are defined in Attachment 1 at the end of this report
**Reason codes are defined in Attachment 2 at the end of this report

1.2 Holding Times

The holding time for the VOC analysis of a preserved solid sample collected as a terracore is 48 hours until laboratory receipt and 14 days from sample collection to analysis. The holding time for the VOC analysis of a preserved water sample is 14 days from sample collection to analysis. The holding times were met for the sample analyses.

1.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Five method blanks were reported (batches 217455, 217209, 217322, 217471 and 217610). VOCs were not detected in the method blanks above the MDLs.

1.4 Matrix Spike/Matrix Spike Duplicate

Two sample set specific MS/MSD pairs were reported, using samples W8, S3, B 71317 and W7, S4, C 71317. The recovery and relative percent difference (RPD) results were within the laboratory specified acceptance criteria, with the following exceptions.

The RPDs for the following compounds were high and outside the laboratory specified acceptance criteria in the MS/MSD pair using sample W8, S3, B 71317. Since these compounds were not detected in sample W8, S3, B 71317, no qualifications were applied to the data.

1,2,4-Trimethylbenzene	Chlorobenzene	Tetrachloroethene
1,4-Dichlorobenzene	Ethylbenzene	Toluene
Benzene	N-Propylbenzene	Xylenes, Total

1.5 Laboratory Control Sample (LCS)

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Four LCSs and one LCS/laboratory control sample duplicate (LCSD) pair were reported. The recovery and RPD results were within the laboratory specified acceptance criteria.

1.6 Surrogates

Acceptable surrogate recoveries were reported.

1.7 Trip Blank

Four trip blanks accompanied the samples, TRIP BLANK 1, TRIP BLANK 2, TRIP BLANK 3 and TRIP BLANK 4. VOCs were not detected in the trip blanks above the MDLs, with the following exceptions.

Acetone was detected in each trip blank at an estimated concentration greater than the MDL and less than the reporting limit (RL). Since acetone was not detected in the associated samples, no qualifications were applied to the data.

1.8 Field Duplicate

Five field duplicates were collected with the sample set. Four field duplicates were analyzed for VOCs, DUP-9, DUP-11, DUP-12 and DUP-13. Acceptable precision (RPD <40% for results greater than five times the RL and ±2 times the RL for results less than five times the RL) was demonstrated between the field duplicates and the original samples, W6, S3, B71317, W7, S4, B71317, W8, S1, B71317 and W4, S2, A71317. The RPDs between the results were 0%. It was noted that the results for sample W4, S2, A71317 were reported in laboratory report 180-68219-2.

1.9 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were not reported.

1.10 Electronic Data Deliverable (EDD) Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

2.0 SEMIVOLATILE ORGANIC COMPOUNDS

The samples were analyzed for SVOCs by EPA methods 3541/8270D.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

✓ Overall Assessment
✓ Holding Times

✓ Method Blank
⊗ Matrix Spike/Matrix Spike Duplicate
✓ Laboratory Control Sample
✓ Surrogates
⊗ Field Duplicate
✓ Sensitivity
✓ Electronic Data Deliverable Review

2.1 Overall Assessment

The SVOC data reported in this package are considered usable for meeting project objectives. The analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this package is 100%.

The concentrations of fluoranthene and pyrene in the 1:2 dilution of sample W8, S3, C 71317 were flagged with E, indicating the results exceeded the calibration ranges. The sample was reanalyzed at a 1:10 dilution and the concentrations of fluoranthene and pyrene were within the calibration ranges for this dilution. Therefore, based on professional and technical judgment, the 1:10 dilution results for fluoranthene and pyrene sample W8, S3, C 71317 are the usable results. The 1:2 dilution results for the other SVOCs in this sample are the usable results. The usability of the data was indicated in the "reportable result" column of the EDD with qualifiers file.

2.2 Holding Times

The holding times for SVOC analysis of solid samples are 14 days from sample collection to extraction and 40 days from extraction to analysis. The holding times were met for the sample analyses.

2.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Three method blanks were reported (batches 217139, 217195 and 217309). SVOCs were not detected in the method blanks above the MDLs.

2.4 Matrix Spike/Matrix Spike Duplicate

Two sample set specific MS/MSD pairs were reported, using samples W6, S1, C 071317 and W6, S4, C 071317. The recovery and RPD results were within the laboratory specified acceptance criteria, with the following exceptions.

One or both of the recoveries of the following compounds were low and outside the laboratory specified acceptance criteria in the MS/MSD pair using sample W6, S1, C 071317: Benzo[b]fluoranthene, fluoranthene, pentachlorophenol, phenanthrene and pyrene. In addition, the MS recovery and RPD of benzo[g,h,i]perylene were high, as were the RPDs for anthracene, benzo[a]anthracene, benzo[a]pyrene, chrysene, benzo[b]fluoranthene, fluoranthene, phenanthrene and pyrene. Therefore, the concentrations of anthracene, benzo[a]anthracene, benzo[a]pyrene, benzo[g,h,i]perylene, chrysene, benzo[b]fluoranthene, fluoranthene, phenanthrene and pyrene in sample W6, S1, C 071317 were J qualified as estimated and the nondetect pentachlorophenol result was UJ qualified as estimated less than the MDL.

Sample	Compound	Laboratory Result (mg/kg)	Laboratory Flag	Validation Result (mg/kg)	Validation Qualifier	Reason Code
W6, S1, C 071317	Anthracene	0.17	F2	0.17	J	4
W6, S1, C 071317	Benzo[a]anthracene	0.48	F2	0.48	J	4
W6, S1, C 071317	Benzo[a]pyrene	0.46	F2	0.46	J	4
W6, S1, C 071317	Benzo[b]fluoranthene	0.55	F1,F2	0.55	J	4
W6, S1, C 071317	Benzo[g,h,i]perylene	0.49	F1,F2	0.49	J	4
W6, S1, C 071317	Chrysene	0.46	F2	0.46	J	4
W6, S1, C 071317	Fluoranthene	0.94	F1,F2	0.94	J	4
W6, S1, C 071317	Pentachlorophenol	0.20	U,F1	0.20	UJ	4
W6, S1, C 071317	Phenanthrene	0.37	F1,F2	0.37	J	4
W6, S1, C 071317	Pyrene	0.69	F1,F2	0.69	J	4

mg/kg-milligrams per kilogram
F1-laboratory flag indicating the MS and/or MSD recovery is outside acceptance limits
F2- laboratory flag indicating the MS and/or MSD RPD is outside acceptance limits
U-not detected at or above the MDL

2.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two LCSs and one LCS/LCSD pair were reported. The recovery and RPD results were within the laboratory specified acceptance criteria.

2.6 Surrogates

Acceptable surrogate recoveries were reported.

2.7 Field Duplicate

Five field duplicates were collected with the sample set. One field duplicate was analyzed for SVOCs, DUP-10. Acceptable precision (RPD <40% for results greater than five times the RL and ±2 times the RL for results less than five times the RL) was demonstrated between the field duplicate and the original sample, W6, S3, C 071317, with the following exceptions.

The field duplicate acceptance criteria were not met for benzo[a]anthracene, benzo[a]pyrene, benzo[b]fluoranthene and chrysene. Therefore, based on professional and technical judgment, the concentrations of benzo[a]anthracene, benzo[a]pyrene, benzo[b]fluoranthene and chrysene in the field duplicate pair were J qualified as estimated. The qualifications due to the field duplicate results are summarized below.

Sample	Compound	Laboratory Result (mg/kg)	Laboratory Flag	RPD	Validation Result (mg/kg)	Validation Qualifier	Reason Code
DUP-10	Benzo[a]anthracene	0.18	NA	56	0.18	J	7
W6, S3, C 071317	Benzo[a]anthracene	0.32	NA		0.32	J	7
DUP-10	Benzo[a]pyrene	0.19	NA	54	0.19	J	7
W6, S3, C 071317	Benzo[a]pyrene	0.33	NA		0.33	J	7
DUP-10	Benzo[b]fluoranthene	0.21	NA	58	0.21	J	7
W6, S3, C 071317	Benzo[b]fluoranthene	0.38	NA		0.38	J	7
DUP-10	Chrysene	0.18	NA	53	0.18	J	7
W6, S3, C 071317	Chrysene	0.31	NA		0.31	J	7

mg/kg-milligrams per kilogram
NA-not applicable

2.8 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were reported due to the dilutions analyzed.

2.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II reports and the EDDs.

3.0 POLYCHLORINATED BIPHENYLS

The samples were analyzed for PCBs by EPA Methods 3541/8082A.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

⊗ Overall Assessment
✓ Holding Times
✓ Method Blank
✓ Matrix Spike/Matrix Spike Duplicate
✓ Laboratory Control Sample
✓ Surrogates
✓ Field Duplicate
✓ Sensitivity
✓ Electronic Data Deliverable Review

3.1 Overall Assessment

The PCB data reported in this package are considered usable for meeting project objectives. The analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this sample set is 100%.

The samples contain mixtures of PCBs 1248, 1254 and 1260. There are peaks in 1248 and 1254 that are in both of these PCBs and peaks in 1254 and 1260 that are in both of these PCBs; therefore, there is contribution between PCBs when more than one PCB is detected in a sample. Therefore, based on professional and technical judgment, the concentrations of PCBs PCBs 1248, 1254 and 1260 in these samples were J qualified as estimated.

Sample ID	Compound	Laboratory Concentration (mg/kg)	Laboratory Flag	Validation Concentration (mg/kg)	Validation Qualifier	Reason Code
DUP-10	PCB-1248	1.5	NA	1.5	J	13
DUP-10	PCB-1254	0.60	NA	0.60	J	13
DUP-10	PCB-1260	0.23	NA	0.23	J	13
W6, S1, C 071317	PCB-1248	0.80	NA	0.80	J	13
W6, S1, C 071317	PCB-1254	0.47	NA	0.47	J	13
W6, S1, C 071317	PCB-1260	0.15	NA	0.15	J	13
W6, S2, C 071317	PCB-1248	1.8	NA	1.8	J	13
W6, S2, C 071317	PCB-1254	0.76	NA	0.76	J	13
W6, S2, C 071317	PCB-1260	0.33	NA	0.33	J	13
W6, S3, C 071317	PCB-1248	1.2	NA	1.2	J	13
W6, S3, C 071317	PCB-1254	0.55	NA	0.55	J	13
W6, S3, C 071317	PCB-1260	0.23	NA	0.23	J	13
W6, S4, C 071317	PCB-1248	1.5	NA	1.5	J	13
W6, S4, C 071317	PCB-1254	0.60	NA	0.60	J	13
W6, S4, C 071317	PCB-1260	0.22	NA	0.22	J	13
W6, S5, C 071317	PCB-1248	1.1	NA	1.1	J	13
W6, S5, C 071317	PCB-1254	0.35	NA	0.35	J	13
W6, S5, C 071317	PCB-1260	0.13	NA	0.13	J	13
W7, S1, C 71317	PCB-1248	1.1	NA	1.1	J	13
W7, S1, C 71317	PCB-1254	0.42	NA	0.42	J	13
W7, S1, C 71317	PCB-1260	0.17	NA	0.17	J	13
W7, S2, C 71317	PCB-1248	1.5	NA	1.5	J	13
W7, S2, C 71317	PCB-1254	0.53	NA	0.53	J	13
W7, S2, C 71317	PCB-1260	0.19	NA	0.19	J	13
W7, S3, C 71317	PCB-1248	0.50	NA	0.50	J	13
W7, S3, C 71317	PCB-1254	0.24	NA	0.24	J	13
W7, S3, C 71317	PCB-1260	0.092	NA	0.092	J	13
W7, S4, C 71317	PCB-1248	0.69	NA	0.69	J	13
W7, S4, C 71317	PCB-1254	0.36	NA	0.36	J	13
W7, S4, C 71317	PCB-1260	0.099	NA	0.099	J	13
W7, S5, C 71317	PCB-1248	0.24	NA	0.24	J	13
W7, S5, C 71317	PCB-1254	0.12	NA	0.12	J	13
W7, S5, C 71317	PCB-1260	0.047	NA	0.047	J	13
W8, S1, C 71317	PCB-1248	0.63	NA	0.63	J	13
W8, S1, C 71317	PCB-1254	0.32	NA	0.32	J	13

Sample ID	Compound	Laboratory Concentration (mg/kg)	Laboratory Flag	Validation Concentration (mg/kg)	Validation Qualifier	Reason Code
W8, S1, C 71317	PCB-1260	0.16	NA	0.16	J	13
W8, S2, C 71317	PCB-1248	0.48	NA	0.48	J	13
W8, S2, C 71317	PCB-1254	0.29	NA	0.29	J	13
W8, S2, C 71317	PCB-1260	0.11	NA	0.11	J	13
W8, S3, C 71317	PCB-1248	0.17	NA	0.17	J	13
W8, S3, C 71317	PCB-1254	0.079	NA	0.079	J	13
W8, S3, C 71317	PCB-1260	0.030	NA	0.030	J	13

mg/kg-milligrams per kilogram
NA-not applicable

3.2 Holding Times

The holding times for the PCB analysis of solids are 14 days from sample collection to extraction and 40 days from extraction to analysis. The holding times were met for the sample analyses.

3.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two method blanks were reported (batches 217194 and 217313). PCBs were not detected in the method blanks above the MDLs.

3.4 Matrix Spike/Matrix Spike Duplicate

MS/MSD pairs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two sample set specific MS/MSD pairs were reported, using samples W6, S1, C 071317 and W7, S4, C 71317. The recovery and RPD results were within the laboratory specified acceptance criteria.

3.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two LCSs were reported. The recovery results were within the laboratory specified acceptance criteria.

3.6 Surrogates

Acceptable surrogate recoveries were reported.

3.7 Field Duplicate

Five field duplicates were collected with the sample set. One field duplicate was analyzed for PCBs, DUP-10. Acceptable precision (RPD <40% for results greater than five times the RL and ±2 times the RL for results less than five times the RL) was demonstrated between the field duplicate and the original sample, W6, S3, C 071317.

3.8 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were not reported.

3.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No other discrepancies were identified between the level II report and the EDD.

5.0 METALS

The samples were analyzed for metals by EPA methods 3050B/6010C (Mercury evaluated separately in Section 6.0, below).

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

✓ Overall Assessment
✓ Holding Times
✓ Method Blank
✓ Matrix Spike/Matrix Spike Duplicate
✓ Laboratory Control Sample
✓ Laboratory Duplicate
⊗ Field Duplicate
✓ Sensitivity
✓ Electronic Data Deliverable Review

5.1 Overall Assessment

The metals data reported in this package are considered usable for meeting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid

analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this package is 100%.

5.2 Holding Times

The holding time for metals analysis of solid samples is 180 days from sample collection to analysis. The holding times were met for the sample analyses.

5.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 217374). The metals were not detected in the method blank above the MDLs.

5.4 Matrix Spike/Matrix Spike Duplicate

MS/MSD pairs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). A sample set specific MS/MSD pair was reported, using sample W6, S1, C 071317. The recovery and RPD results were within the laboratory specified acceptance criteria.

5.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery results were within the laboratory specified acceptance criteria.

5.6 Laboratory Duplicate

A laboratory duplicate was not reported with the sample set.

5.7 Field Duplicate

Five field duplicates were collected with the sample set. One field duplicate was analyzed for metals, DUP-10. Acceptable precision (RPD <40% for results greater than five times the RL and ±2 times the RL for results less than five times the RL) was demonstrated between the field duplicate and the original sample, W6, S3, C 071317, with the following exceptions.

The field duplicate acceptance criteria were not met for arsenic, barium, chromium, manganese, nickel and zinc. Therefore, the concentrations of these metals in the field duplicate pair were J qualified as estimated.

The qualifications due to the field duplicate assessment are summarized below.

Sample ID	Compound	Laboratory Concentration (mg/kg)	Laboratory Flag	RPD	Validation Concentration (mg/kg)	Validation Qualifier	Reason Code
DUP-10	Arsenic	4.4	NA	93	4.4	J	7
W6, S3, C 071317	Arsenic	12	NA		12	J	7
DUP-10	Barium	42	NA	80	42	J	7
W6, S3, C 071317	Barium	99	NA		99	J	7
DUP-10	Chromium	7.5	NA	45	7.5	J	7
W6, S3, C 071317	Chromium	12	NA		12	J	7
DUP-10	Manganese	270	NA	62	270	J	7
W6, S3, C 071317	Manganese	510	NA		510	J	7
DUP-10	Nickel	13	NA	51	13	J	7
W6, S3, C 071317	Nickel	22	NA		22	J	7
DUP-10	Zinc	47	NA	47	47	J	7
W6, S3, C 071317	Zinc	76	NA		76	J	7

mg/kg-milligrams per kilogram
NA-not applicable

5.8 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were not reported.

5.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

6.0 MERCURY

The samples were analyzed for mercury by EPA methods 7471B.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues

were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ⊗ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ⊗ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

6.1 Overall Assessment

The mercury data reported in this package are considered usable for meeting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this package is 100%.

6.2 Holding Times

The holding time for the mercury analysis of solid samples is 28 days from sample collection to analysis. The holding times were met for the sample analyses.

6.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 217423). Mercury was not detected in the method blank above the MDL.

6.4 Matrix Spike/Matrix Spike Duplicate

MS/MSD pairs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). A sample set specific MS/MSD pair was reported, using sample W6, S1, C 071317. The recovery result was within the laboratory specified acceptance criteria, but the RPD was high and outside the laboratory specified acceptance criteria. Therefore, the concentration of mercury in sample W6, S1, C 071317 was J qualified as estimated.

Sample ID	Compound	Laboratory Concentration (mg/kg)	Laboratory Flag	Validation Concentration (mg/kg)	Validation Qualifier	Reason Code
W6, S1, C 071317	Mercury	0.12	F2	0.12	J	4

mg/kg-milligrams per kilogram
F2- laboratory flag indicating the MS and/or MSD RPD is outside acceptance limits

6.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery result was within the laboratory specified acceptance criteria.

6.6 Laboratory Duplicate

A laboratory duplicate was not reported.

6.7 Field Duplicate

Five field duplicates were collected with the sample set. One field duplicate was analyzed for mercury, DUP-10. Acceptable precision (RPD <40% for results greater than five times the RL and ±2 times the RL for results less than five times the RL) was demonstrated between the field duplicate and the original sample, W6, S3, C 071317.

6.8 Sensitivity

The samples were reported to the MDL. Elevated non-detect results were not reported.

6.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

7.0 TOTAL CYANIDE

The samples were analyzed for total cyanide by EPA Methods 9014.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Equipment Blank
- ✓ Sensitivity
- ✓ Electronic Data Deliverables Review

7.1 Overall Assessment

The cyanide data reported in this package are considered usable for meeting project objectives. The analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this package is 100%.

7.2 Holding Times

The holding time for the cyanide analysis of solid samples is 14 days from sample collection to analysis. The holding times were met for the sample analyses.

7.3 Method Blanks

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two method blanks were reported (batches 217382 and 217386). Cyanide was not detected in the method blanks above the MDL.

7.4 Matrix Spike

MS/MSD pairs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two sample set specific MS/MSD pairs were reported, using samples W6, S1, C 071317 and W7, S1, C 71317. The recovery and RPD results were within the laboratory specified acceptance criteria.

7.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Six LCSs were reported. The recovery results were within the laboratory specified acceptance criteria.

7.6 Laboratory Duplicate

A laboratory duplicate was not reported.

7.7 Field Duplicate

Five field duplicates were collected with the sample set. One field duplicate was analyzed for cyanide, DUP-10. Acceptable precision (RPD <40% for results greater than five times the RL and ±2 times the RL for results less than five times the RL) was demonstrated between the field duplicate and the original sample, W6, S3, C 071317.

7.8 Sensitivity

The samples were reported to the MDL. Elevated non-detect results were not reported.

7.9 Electronic Data Deliverables Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

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ATTACHMENT 1
DATA VALIDATION QUALIFIER DEFINITIONS AND INTERPRETATION KEY
Assigned by Geosyntec's Data Validation Team

DATA QUALIFIER DEFINITIONS

U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

J+ The analyte was positively identified; however, the associated numerical value is likely to be higher that the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.

J- The analyte was positively identified; however, the associated numerical value is likely to be lower that the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ATTACHMENT 2
DATA VALIDATION REASON CODES
Assigned by Geosyntec's Data Validation Team

Valid Value	Description
1	Preservation requirement not met
2	Analysis holding time exceeded
3	Blank contamination (i.e., method, trip, equipment, etc.)
4	Matrix spike/matrix spike duplicate recovery or RPD outside limits
5	LCS recovery outside limits
6	Surrogate recovery outside limits
7	Field Duplicate RPD exceeded
8	Serial dilution percent difference exceeded
9	Calibration criteria not met
10	Linear range exceeded
11	Internal standard criteria not met
12	Lab duplicates RPD exceeded
13	Other

RPD-relative percent difference

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Memorandum

Date:	20 July 2017
To:	Aron Krasnopoler
From:	Mary Tyler
CC:	J. Caprio
Subject:	**Stage 2A Data Validation - Level II Data Deliverable, TestAmerica Job ID 180-68219-2**

SITE: Former Sperry Remington Site-North IRM

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of ten solid samples, including one sample for matrix spike/matrix spike duplicate (MS/MSD) analyses, collected July 13, 2017, as part of the Former Sperry Remington Site-North IRM project. The analyses were performed at TestAmerica Laboratories, Inc., Pittsburgh, Pennsylvania. The samples were analyzed for the following tests:

- Volatile Organic Compounds (VOCs) by EPA Methods 5035/8260C
- Total Solids by Standard Method 2540G

EXECUTIVE SUMMARY

Overall, based on this Stage 2A data validation covering the quality control (QC) parameters listed below, the data are usable for meeting project objectives.

The data were validated based on the Quality Assurance Project Plan (QAPP) for Former Sperry Remington Facility Industrial Outfall Site, Elmira, New York, NYSDEC Site I.D. # 808043, NY09-2480-04, July 7, 2010, Revised November 11, 2010, USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review, January 2017 (EPA 540-R-2017-002), the pertinent method referenced by the laboratory report and professional and technical judgment.

The following samples were analyzed and validated at Stage 2A level in the data set:

Laboratory ID	Client ID
180-68219-40	W4, S1, A 71317

Laboratory ID	Client ID
180-68219-41	W4, S1, B 71317

Laboratory ID	Client ID
180-68219-42	W4, S2, A 71317
180-68219-43	W4, S2, B 71317
180-68219-44	W4, S4, A 71317
180-68219-45	W4, S4, B 71317

Laboratory ID	Client ID
180-68219-46	W4, S5, A 71317
180-68219-47	W4, S5, B 71317
180-68219-48	W4, S3, A 71317
180-68219-49	W4, S3, B 71317

The samples were received at the laboratory at 2.4-4.8ºC, within the criteria of 0-6ºC. No sample preservation issues were noted by the laboratory.

The following issues were noted with the chain of custody (COC):

- Incorrect error corrections were observed on the COC, instead of the proper procedure of a single strike through, correction, and initials and date of person making the corrections.

- There was no relinquishing documentation (no signature, date or time) on the six pages of COC.

- The collection times on the container labels for the MS/MSD aliquots of sample W4, S4, A 71317 did not match the information on the COC. The container labels listed a collection time of 15:45, while the parent sample has a collection times of 15:15. The MS/MSD aliquots were logged in with collection times of 15:15.

- The sample IDs and the collection dates and times on the container labels for the samples did not match the sample IDs and the collection dates and times on the COC. The samples were logged in with the information from the COC.

The solids data, used to report the samples on a dry weight basis, were not validated.

1.0 VOLATILE ORGANIC COMPOUNDS

The samples were analyzed for VOCs by EPA methods 5035/8260B.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

✓ Overall Assessment
✓ Holding Times
✓ Method Blank
✓ Matrix Spike/Matrix Spike Duplicate
✓ Laboratory Control Sample

- ✓ Surrogates
- ✓ Trip Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

1.1 Overall Assessment

The VOC data reported in this package are considered usable for meeting project objectives. The analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this data set is 100%.

The narrative indicated that the continuing calibration verification (CCV) percent difference (%D) for vinyl chloride in batch 217322 was high, outside method specified acceptance criteria. The %D was 23.8%, with a high bias; the method specified acceptance criteria is 20%D. Since vinyl chloride was not detected in the associated samples, no qualifications were applied to the data.

1.2 Holding Times

The holding time for the VOC analysis of a preserved solid sample collected as a terracore is 48 hours until laboratory receipt and 14 days from sample collection to analysis. The holding times were met for the sample analyses.

1.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 217322). VOCs were not detected in the method blank above the MDLs.

1.4 Matrix Spike/Matrix Spike Duplicate

MS/MSD pairs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One sample set specific MS/MSD pair was reported, using sample W4, S4, A 71317. The recovery and relative percent difference (RPD) results were within the laboratory specified acceptance criteria.

1.5 Laboratory Control Sample (LCS)

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery results were within the laboratory specified acceptance criteria.

1.6 Surrogates

Acceptable surrogate recoveries were reported.

1.7 Trip Blank

Trip blanks accompanied the associated solid samples, but were not reported in this laboratory report. Since the VOCs were not detected in the solid samples, this did not have an impact on the data.

1.8 Field Duplicate

Field duplicates were not collected with the sample set.

1.9 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were not reported.

1.10 Electronic Data Deliverable (EDD) Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

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ATTACHMENT 1
DATA VALIDATION QUALIFIER DEFINITIONS AND INTERPRETATION KEY
Assigned by Geosyntec's Data Validation Team

DATA QUALIFIER DEFINITIONS

U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

J+ The analyte was positively identified; however, the associated numerical value is likely to be higher that the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.

J- The analyte was positively identified; however, the associated numerical value is likely to be lower that the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ATTACHMENT 2
DATA VALIDATION REASON CODES
Assigned by Geosyntec's Data Validation Team

Valid Value	Description
1	Preservation requirement not met
2	Analysis holding time exceeded
3	Blank contamination (i.e., method, trip, equipment, etc.)
4	Matrix spike/matrix spike duplicate recovery or RPD outside limits
5	LCS recovery outside limits
6	Surrogate recovery outside limits
7	Field Duplicate RPD exceeded
8	Serial dilution percent difference exceeded
9	Calibration criteria not met
10	Linear range exceeded
11	Internal standard criteria not met
12	Lab duplicates RPD exceeded
13	Other

RPD-relative percent difference

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Memorandum

Date:	03 August 2017
To:	Aron Krasnopoler
From:	Mary Tyler
CC:	J. Caprio
Subject:	**Stage 2A Data Validation - Level II Data Deliverable, ESC Lab Sciences Sample Delivery Group # L923206**

SITE: RECON Submittal 02-3925-010 Topsoil

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of nine solid samples, including two samples for matrix spike/matrix spike duplicate (MS/MSD) analyses and two field duplicate samples, collected July 18, 2017, as part of the RECON Submittal 02-3925-010 Topsoil project. The analyses were performed at ESC Lab Sciences, Mount Juliet, Tennessee. The samples were analyzed for the following tests:

- Volatile Organic Compounds (VOCs) by EPA Methods 5035/8260C
- Semivolatile Organic Compounds (SVOCs) by EPA Methods 3546/8270D
- Organochlorine Pesticides by EPA Methods 3546/8081
- Polychlorinated Biphenyls (PCBs) by EPA Methods 3546/8082
- Metals by EPA Methods 3050B/6010B
- Trivalent Chromium by Calculation
- Mercury by EPA Method 7471A
- Hexavalent Chromium by EPA Methods 3060A/7196A
- Total Cyanide by EPA Method 9012B
- Total Solids by Standard Method 2540G

EXECUTIVE SUMMARY

The samples were handled, prepared, and measured in the same manner under similar prescribed conditions.

Overall, based on this Stage 2A data validation covering the quality control (QC) parameters listed below, the data as qualified are usable for meeting project objectives, with the following

exceptions. One or both MS/MSD recoveries of 1,3-dichlorobenzene, naphthalene, styrene, 1,2,3-trichlorobenzene, 1,2,4-trichlorobenzene, n-butylbenzene, 2-chlorotoluene, 4-chlorotoluene, 1,2-dichlorobenzene, 1,4-dichlorobenzene and hexachloro-1,3-butadiene were less than 20%, outside the validation guidance acceptance criteria. Therefore, the nondetect results of these compounds in sample GRAB 7 were R qualified as rejected. In addition, the nondetect benzidine result in sample COMPOSITE 2 was R qualified as rejected due to no MS/MSD recoveries (0%).

The remaining qualified data should be used within the limitations of the qualification.

The data were validated based on the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review, January 2017 (EPA 540-R-2017-002), USEPA Contract Laboratory Program National Functional Guidelines for Superfund Inorganic Methods Data Review, January 2017 (EPA 540-R-2017-001), the pertinent methods referenced by the laboratory report and professional and technical judgment.

The following samples were analyzed and validated at Stage 2A level in the data set:

Laboratory ID	Client ID
L923206-01	COMPOSITE 2
L923206-01MS	COMPOSITE 2MS
L923206-01MSD	COMPOSITE 2MSD
L923206-02	GRAB 4
L923206-03	GRAB 1
L923206-04	GRAB 6
L923206-05	GRAB 5
L923206-06	DUP 1

Laboratory ID	Client ID
L923206-07	GRAB 7
L923206-07MS	GRAB 7MS
L923206-07MSD	GRAB 7MSD
L923206-08	GRAB 3
L923206-09	GRAB 2
L923206-10	COMPOSITE 1
L923206-11	DUP 2

The samples were received at the laboratory at 5.3°C, within the criteria of 0-6°C. No sample preservation issues were noted by the laboratory.

The following sample receiving issues were noted:

- The chain of custody (COC) had a note that indicated two trip blanks were sent in with the samples; the trip blank IDs were not listed on the COC for analysis and trip blank results were not reported. Additional information from the laboratory indicated that trip blanks are sent to the field with the empty sample containers; analysis is performed if indicated on the COC.

- Incorrect error corrections were observed on the COC, instead of the proper procedure of a single strike through, correction, and initials and date of person making the corrections.

- Sample collection times were not documented on the COC for field duplicate samples DUP 1 and DUP 2. The laboratory assigned collection times of 00:00.

The solids data, used to report the samples on a dry weight basis, were not validated.

1.0 VOLATILE ORGANIC COMPOUNDS

The samples were analyzed for VOCs by EPA methods 5035/8260B.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

⊗ Overall Assessment
✓ Holding Times
✓ Method Blank
⊗ Matrix Spike/Matrix Spike Duplicate
⊗ Laboratory Control Sample
✓ Surrogates
✓ Trip Blank
✓ Field Duplicate
✓ Sensitivity
✓ Electronic Data Deliverable Review

1.1 Overall Assessment

The VOC data reported in this data set are considered usable for meeting project objectives, with the following exceptions. One or both MS/MSD recoveries of 1,3-dichlorobenzene, naphthalene, styrene, 1,2,3-trichlorobenzene, 1,2,4-trichlorobenzene, n-butylbenzene, 2-chlorotoluene, 4-chlorotoluene, 1,2-dichlorobenzene, 1,4-dichlorobenzene and hexachloro-1,3-butadiene were less than 20%, outside the validation guidance acceptance criteria. Therefore, the nondetect results of these compounds in sample GRAB 7 were R qualified as rejected. The analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this data set is 97.9%.

1.2 Holding Times

The holding times for the VOC analysis of a solid sample collected using a Terracore are 48 hours from collection to laboratory receipt and 14 days from sample collection to analysis. The holding times were met for the sample analyses.

1.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch WG1000613). VOCs were not detected in the method blank above the method detection limits (MDLs), with the following exception.

Methylene chloride was detected at an estimated concentration, greater than the MDL and less than the (RL). Since methylene chloride was not detected in the associated samples, no qualifications were applied to the data.

1.4 Matrix Spike/Matrix Spike Duplicate

MS/MSD pairs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One sample set specific MS/MSD pair was reported, using sample GRAB 7. The recovery and relative percent difference (RPD) results were within the laboratory specified acceptance criteria, with the following exceptions.

The recoveries of acetone and the RPDs for 1,3-dichlorobenzene and styrene were high and outside the laboratory specified acceptance criteria. Since 1,3-dichlorobenzene and styrene were not detected in sample GRAB 7, no qualifications were applied to the 1,3-dichlorobenzene and styrene data due to the RPD results. However, due to the high recoveries, the concentration of acetone in sample GRAB 7 was J qualified as estimated.

One or both MS/MSD recoveries of 1,3-dichlorobenzene, naphthalene, styrene, 1,2,3-trichlorobenzene and 1,2,4-trichlorobenzene were low and outside the laboratory specified acceptance criteria; the MS/MSD recoveries were less than 20%, outside the validation guidance acceptance criteria. Therefore, the nondetect results of these compounds in sample GRAB 7 were R qualified as rejected.

One or both MS/MSD recoveries of the following compounds were within the laboratory specified acceptance criteria, but less than 20%, outside the validation guidance acceptance criteria. Therefore, based on professional and technical judgment, the nondetect results of these compounds in sample GRAB 7 were R qualified as rejected.

Bromobenzene	4-Chlorotoluene	Hexachloro-1,3-Butadiene
N-Butylbenzene	1,2-Dichlorobenzene	1,2,4-Trimethylbenzene
2-Chlorotoluene	1,4-Dichlorobenzene	1,3,5-Trimethylbenzene

Sample ID	Compound	Laboratory Result (mg/kg)	Laboratory Flag	Validation Result (mg/kg)	Validation Qualifier*	Reason Code**
GRAB 7	Acetone	0.0386	J J5	0.0386	J	4
GRAB 7	Bromobenzene	0.000332	U	0.000332	R	4
GRAB 7	N-Butylbenzene	0.000302	U	0.000302	R	4
GRAB 7	2-Chlorotoluene	0.000352	U	0.000352	R	4
GRAB 7	4-Chlorotoluene	0.000281	U	0.000281	R	4
GRAB 7	1,2-Dichlorobenzene	0.000357	U	0.000357	R	4
GRAB 7	1,3-Dichlorobenzene	0.000280	U J3	0.000280	R	4
GRAB 7	1,4-Dichlorobenzene	0.000264	U	0.000264	R	4
GRAB 7	Hexachloro-1,3-Butadiene	0.000400	U	0.000400	R	4
GRAB 7	Naphthalene	0.00117	U J6	0.00117	R	4
GRAB 7	Styrene	0.000274	U J3 J6	0.000274	R	4
GRAB 7	1,2,3-Trichlorobenzene	0.000353	U J6	0.000353	R	4
GRAB 7	1,2,4-Trichlorobenzene	0.000448	U J6	0.000448	R	4
GRAB 7	1,2,4-Trimethylbenzene	0.000247	U	0.000247	R	4
GRAB 7	1,3,5-Trimethylbenzene	0.000311	U	0.000311	R	4

mg/kg-milligrams per kilogram
U-not detected at or above the stated MDL
J-laboratory flag indicating that the identification of the analyte is acceptable; the reported value is an estimate
J5-laboratory flag indicating that the sample matrix interfered with the ability to make any accurate determination; spike value is high
J3-laboratory flag indicating that the associated batch QC was outside the established quality control range for precision
J6-laboratory flag indicating that the sample matrix interfered with the ability to make any accurate determination; spike value is low
* Validation qualifiers are defined in Attachment 1 at the end of this report
**Reason codes are defined in Attachment 2 at the end of this report

1.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS/LCSD pair was reported. The recovery and RPD results were within the laboratory specified acceptance criteria, with the following exceptions.

The LCS recovery of bromoform and the acetone RPD were high, outside laboratory specified acceptance criteria. Since bromoform was not detected in the associated samples, no qualifications were applied to the bromoform data. However, based on professional and technical judgment, the concentrations of acetone in the associated samples were J qualified as estimated.

Sample ID	Compound	Laboratory Result (mg/kg)	Laboratory Flag	Validation Result (mg/kg)	Validation Qualifier	Reason Code
GRAB 4	Acetone	0.0231	J J3	0.0231	J	5
GRAB 1	Acetone	0.0351	J J3	0.0351	J	5
GRAB 6	Acetone	0.0356	J J3	0.0356	J	5
GRAB 5	Acetone	0.0324	J J3	0.0324	J	5
DUP 1	Acetone	0.0254	J J3	0.0254	J	5
GRAB 7	Acetone	0.0386	J J5	0.0386	J	5
GRAB 3	Acetone	0.0308	J J3	0.0308	J	5
GRAB 2	Acetone	0.0466	J J3	0.0466	J	5

mg/kg-milligrams per kilogram
J-laboratory flag indicating that the identification of the analyte is acceptable; the reported value is an estimate
J5-laboratory flag indicating that the sample matrix interfered with the ability to make any accurate determination; spike value is high
J3-laboratory flag indicating that the associated batch QC was outside the established quality control range for precision

1.6 Surrogates

Acceptable surrogate recoveries were reported.

1.7 Trip Blank

Two trip blanks accompanied the samples, but were not analyzed. No qualifications were applied to the data, but this should be noted by the data user.

1.8 Field Duplicate

Two field duplicates were collected with the sample set. One field duplicate was analyzed for VOCs, DUP 1. Acceptable precision [RPD <40% for results greater than five times the reporting limit (RL) and ±2 times the RL for results less than five times the RL] was demonstrated between the field duplicate and the original sample, Grab 3.

1.9 Sensitivity

The samples were reported to the MDLs. No elevated non-detect results were reported.

The MDLs were at or below the NYSDEC DER10 App 5 Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010 listed in the electronic data deliverable (EDD). It was noted that no NYSDEC constituent levels were listed in the EDD for the following compounds:

Acrylonitrile
Bromobenzene
Bromodichloromethane
Bromoform
Bromomethane
Chlorodibromomethane
Chloroethane
Chloromethane
2-Chlorotoluene
4- Chlorotoluene
1,2-Dibromo-3-Chloropropane
1,2-Dibromoethane
Dibromomethane
Dichlorodifluoromethane
1,2-Dichloropropane
1,1- Dichloropropene
1,3- Dichloropropane
CIS-1,3- Dichloropropene

Trans-1,3- Dichloropropene
2,2- Dichloropropane
Di-isopropyl Ether
Hexachloro-1,3-butadiene
Isopropylbenzene
p-Isopropyltoluene
4-Methyl-2-Pentanone (MIBK)
Styrene
1,1,1,2-Tetrachloroethane
1,1,2,2- Tetrachloroethane
1,1,2-Trichlorotrifluoroethane
1,2,3-Trichlorobenzene
1,2,4- Trichlorobenzene
1,1,2-Trichloroethane
Trichlorofluoromethane
1,2,3-Trichloropropane
1,2,3-Trimethylbenzene

1.10 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The samples were reported to the MDLs in the hardcopy report; the nondetect results in the EDD were reported

to the RLs. In addition, the QC data were not included in the EDD. No other discrepancies were identified between the level II report and the EDD.

2.0 SEMIVOLATILE ORGANIC COMPOUNDS

The samples were analyzed for SVOCs by EPA methods 3546/8270D.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

⊗ Overall Assessment
✓ Holding Times
✓ Method Blank
⊗ Matrix Spike/Matrix Spike Duplicate
✓ Laboratory Control Sample
✓ Surrogates
✓ Field Duplicate
✓ Sensitivity
⊗ Electronic Data Deliverable Review

2.1 Overall Assessment

The SVOC data reported in this data set are considered usable for meeting project objectives, with the following exceptions. The nondetect benzidine results were R qualified as rejected due to no MS/MSD recoveries (0%) and professional and technical judgment. Therefore, the analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this data set is 99.4%.

The nondetect hexachlorocyclopentadiene results in the samples were flagged with J0, indicating the calibration verification was outside of acceptance limits and the result was estimated. Additional information sent by the laboratory indicated the continuing calibration verification (CCV) percent difference (%D) for hexachlorocyclopentadiene was 70%D, with a low bias. Therefore, based on professional and technical judgment, the nondetect hexachlorocyclopentadiene results in the associated samples were UJ qualified as estimated less than the MDL.

Sample ID	Compound	Laboratory Result (mg/kg)	Laboratory Flag	Validation Result (mg/kg)	Validation Qualifier	Reason Code
COMPOSITE 2	Hexachloro-cyclopentadiene	0.0667	U J0	0.0667	UJ	9
COMPOSITE 1	Hexachloro-cyclopentadiene	0.0657	U J0 J3	0.0657	UJ	9
DUP 2	Hexachloro-cyclopentadiene	0.0658	U J0 J3	0.0658	UJ	9

mg/kg-milligrams per kilogram
U-not detected at or above the stated MDL
J3-laboratory flag indicating that the associated batch QC was outside the established quality control range for precision
J0-laboratory flag indicating that the calibration verification was outside of acceptance limits and the result was estimated

2.2 Holding Times

The holding times for SVOC analysis of solid samples are 14 days from sample collection to extraction and 40 days from extraction to analysis. The holding times were met for the sample analyses.

2.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch WG1002043). SVOCs were not detected in the method blank above the MDLs.

2.4 Matrix Spike/Matrix Spike Duplicate

MS/MSD pairs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One sample set specific MS/MSD pair was reported, using sample COMPOSITE 2. The recovery and RPD results were within the laboratory specified acceptance criteria, with the following exceptions.

There were no recoveries of benzidine (0%). Therefore, based on professional and technical judgment, the nondetect results of benzidine sample COMPOSITE 2 was R qualified as rejected. In addition, the RPDs for benzo(a)anthracene, chrysene, fluoranthene, phenanthrene and pyrene were high and outside laboratory specified acceptance criteria. Therefore, the concentrations of anthracene, chrysene, fluoranthene, phenanthrene and pyrene in sample COMPOSITE 2 were J qualified as estimated.

Sample ID	Compound	Laboratory Result (mg/kg)	Laboratory Flag	Validation Result (mg/kg)	Validation Qualifier	Reason Code
COMPOSITE 2	Benzidine	0.0723	U J6	0.0723	R	4
COMPOSITE 2	Benzo(a)anthracene	0.0323	J J3	0.0323	J	4
COMPOSITE 2	Chrysene	0.0317	J J3	0.0317	J	4
COMPOSITE 2	Fluoranthene	0.0543	J3	0.0543	J	4
COMPOSITE 2	Phenanthrene	0.0234	J J3	0.0234	J	4
COMPOSITE 2	Pyrene	0.0456	J3	0.0456	J	4

mg/kg-milligrams per kilogram
U-not detected at the stated MDL
J-laboratory flag indicating that the identification of the analyte is acceptable; the reported value is an estimate
J3-laboratory flag indicating that the associated batch QC was outside the established quality control range for precision
J6-laboratory flag indicating that the sample matrix interfered with the ability to make any accurate determination; spike value is low

2.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS/LCSD pair was reported. The recovery and RPD results were within the laboratory specified acceptance criteria, with the following exceptions.

The RPDs of the following compounds were high and outside laboratory specified acceptance criteria. Since these compounds were not detected in the associated samples, no qualifications were applied to the data, based on professional and technical judgment.

Bis(2-chloroethyl)ether
Bis (2-chloroisopropyl) ether
2-Chloronaphthalene
Hexachloro-1,3-butadiene
Hexachlorocyclopentadiene
Hexachloroethane
Naphthalene

Nitrobenzene
N-Nitroso-n-propylamine
1,2,4-Trichlorobenzene
2-Chlorophenol
2-Nitrophenol
Phenol

2.6 Surrogates

Acceptable surrogate recoveries were reported.

2.7 Field Duplicate

Two field duplicates were collected with the sample set. One field duplicate was analyzed for SVOCs, DUP 2. Acceptable precision (RPD <40% for results greater than five times the RL and ±2 times the RL for results less than five times the RL) was demonstrated between the field duplicate and the original sample, COMPOSITE 1.

2.8 Sensitivity

The samples were reported to the MDLs. No elevated non-detect results were reported.

The MDLs were at or below the NYSDEC DER10 App 5 Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010 listed in the EDD. It was noted that NYSDEC constituent levels were listed in the EDD for the following compounds; the other SVOCs did not have NYSDEC constituent levels listed.

Acenaphthene
Acenaphthylene
Anthracene
Benzo(a) anthracene
Benzo(k)fluoranthene
Benzo(b)fluoranthene
Benzo(g,h,i)perylene
Benzo(a)pyrene
Chrysene
Dibenz(a,h)anthracene

Fluoranthene
Fluorene
Hexachlorobenzene
Indeno(1,2,3-cd)pyrene
Naphthalene
Phenanthrene
Pyrene
Pentachlorophenol
Phenol

2.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The samples were reported to the MDLs in the hardcopy report; the nondetect results in the EDD were reported to the RLs. In addition, the QC data were not included in the EDD. No other discrepancies were identified between the level II report and the EDD.

3.0 ORGANOCHLORINE PESTICIDES

The samples were analyzed for organochlorine pesticides by EPA Methods 3546/8081.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

✓ Overall Assessment
✓ Holding Times
✓ Method Blank
✓ Matrix Spike/Matrix Spike Duplicate
✓ Laboratory Control Sample
✓ Surrogates
✓ Field Duplicate
✓ Sensitivity
⊗ Electronic Data Deliverable Review

3.1 Overall Assessment

The organochlorine pesticide data reported in this data set are considered usable for meeting project objectives. The analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this data set is 100%.

3.2 Holding Times

The holding times for organochlorine pesticide analysis of solid samples are 14 days from sample collection to extraction and 40 days from extraction to analysis. The holding times were met for the sample analyses.

3.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch WG1000657). The organochlorine pesticides were not detected in the method blank above the MDLs.

3.4 Matrix Spike/Matrix Spike Duplicate

MS/MSD pairs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One sample set specific MS/MSD pair was reported, using sample COMPOSITE 2. The recovery and RPD results were within the laboratory specified acceptance criteria.

3.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS/LCSD pair was reported. The recovery and RPD results were within the laboratory specified acceptance criteria.

3.6 Surrogates

Acceptable surrogate recoveries were reported for the sample analyses.

3.7 Field Duplicate

Two field duplicates were collected with the sample set. One field duplicate was analyzed for organochlorine pesticides, DUP 2. Acceptable precision (RPD <40% for results greater than five times the RL and ±2 times the RL for results less than five times the RL) was demonstrated between the field duplicate and the original sample, COMPOSITE 1.

3.8 Sensitivity

The samples were reported to the MDLs. No elevated non-detect results were reported.

The MDLs were at or below the NYSDEC DER10 App 5 Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010 listed in the EDD. It was noted that no NYSDEC constituent levels were listed in the EDD for endrin aldehyde, endrin ketone, heptachlor expoxide, methoxychlor, chlordane and toxaphene.

3.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The samples were reported to the MDLs in the hardcopy report; the nondetect results in the EDD were reported to the RLs. In addition, the QC data were not included in the EDD. No other discrepancies were identified between the level II report and the EDD.

4.0 POLYCHLORINATED BIPHENYLS

The samples were analyzed for PCBs by EPA Methods 3546/8082A.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues

were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Surrogates
- ✓ Field Duplicate
- ✓ Sensitivity
- ⊗ Electronic Data Deliverable Review

4.1 Overall Assessment

The PCB data reported in this data set are considered usable for meeting project objectives. The analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this data set is 100%.

4.2 Holding Times

No holding times are listed in the referenced method for PCB analyses. The samples were extracted and analyzed within 4 days of collection. Therefore, no qualifications were applied to the data, based on professional and technical judgment.

4.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch WG1000657). PCBs were not detected in the method blank above the MDLs.

4.4 Matrix Spike/Matrix Spike Duplicate

MS/MSD pairs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One sample set specific MS/MSD pair was reported, using sample COMPOSITE 2. The recovery and RPD results were within the laboratory specified acceptance criteria.

4.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS/LCSD pair was reported. The recovery and RPD results were within the laboratory specified acceptance criteria.

4.6 Surrogates

Acceptable surrogate recoveries were reported for the sample analyses.

4.7 Field Duplicate

Two field duplicates were collected with the sample set. One field duplicate was analyzed for PCBs, DUP 2. Acceptable precision (RPD <40% for results greater than five times the RL and ±2 times the RL for results less than five times the RL) was demonstrated between the field duplicate and the original sample, COMPOSITE 1.

4.8 Sensitivity

The samples were reported to the MDLs. No elevated non-detect results were reported.

It was noted that no NYSDEC constituent levels were listed in the EDD for PCBs.

4.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The samples were reported to the MDLs in the hardcopy report; the nondetect results in the EDD were reported to the RLs. In addition, the QC data were not included in the EDD. No other discrepancies were identified between the level II report and the EDD.

5.0 METALS

The samples were analyzed for metals by EPA methods 3050B/6010B (Mercury evaluated separately in Section 6.0, below). The trivalent chromium results were determined by calculation.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

✓ Overall Assessment
✓ Holding Times
✓ Method Blank
⊗ Matrix Spike/Matrix Spike Duplicate
✓ Laboratory Control Sample
✓ Laboratory Duplicate
✓ Field Duplicate
✓ Sensitivity
⊗ Electronic Data Deliverable Review

5.1 Overall Assessment

The metals data reported in this data set are considered usable for meeting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this data set is 100%.

5.2 Holding Times

The holding time for the metals analysis of solid samples is 180 days from sample collection to analysis. The holding times were met for the sample analyses.

5.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch WG1002245). The metals were not detected in the method blank above the MDLs.

5.4 Matrix Spike/Matrix Spike Duplicate

MS/MSD pairs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One sample set specific MS/MSD pair was reported, using sample COMPOSITE 2. The recovery and RPD results were within the laboratory specified acceptance criteria, with the following exceptions.

The recoveries of manganese were high and outside the laboratory specified acceptance criteria. Therefore, the concentration of manganese in sample COMPOSITE 2 was J+ qualified as estimated with a high bias.

Sample ID	Compound	Laboratory Result (mg/kg)	Laboratory Flag	Validation Result (mg/kg)	Validation Qualifier	Reason Code
COMPOSITE 2	Manganese	388	J5	388	J+	4

mg/kg-milligrams per kilogram
J5-laboratory flag indicating that the sample matrix interfered with the ability to make any accurate determination; spike value is high

5.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS/LCSD pair was reported. The recovery and RPD results were within the laboratory specified acceptance criteria.

5.6 Laboratory Duplicate

A laboratory duplicate was not reported.

5.7 Field Duplicate

Two field duplicates were collected with the sample set. One field duplicate was analyzed for metals, DUP 2. Acceptable precision (RPD <40% for results greater than five times the RL and ±2 times the RL for results less than five times the RL) was demonstrated between the field duplicate and the original sample, COMPOSITE 1.

5.8 Sensitivity

The samples were reported to the MDLs. No elevated non-detect results were reported.

The MDLs were at or below the NYSDEC DER10 App 5 Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010 listed in the EDD. It was noted that no NYSDEC constituent level was listed in the EDD for chromium.

5.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The samples were reported to the MDLs in the hardcopy report; the nondetect results in the EDD were reported to the RLs. In addition, the QC data were not included in the EDD. No other discrepancies were identified between the level II report and the EDD.

6.0 MERCURY

The samples were analyzed for mercury by EPA method 7471A.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

✓ Overall Assessment
✓ Holding Times
✓ Method Blank
✓ Matrix Spike/Matrix Spike Duplicate
✓ Laboratory Control Sample
✓ Laboratory Duplicate
✓ Field Duplicate
✓ Sensitivity
⊗ Electronic Data Deliverable Review

6.1 Overall Assessment

The mercury data reported in this data set are considered usable for meeting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this data set is 100%.

6.2 Holding Times

The holding time for the mercury analysis of solid samples is 28 days from sample collection to analysis. The holding times were met for the sample analyses.

6.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch WG1000398). Mercury was not detected in the method blank above the MDL.

6.4 Matrix Spike/Matrix Spike Duplicate

MS/MSD pairs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One sample set specific MS/MSD pair was reported, using

sample COMPOSITE 2. The recovery and RPD results were within the laboratory specified acceptance criteria.

6.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS/LCSD pair was reported. The recovery and RPD results were within the laboratory specified acceptance criteria.

6.6 Laboratory Duplicate

A laboratory duplicate was not reported.

6.7 Field Duplicate

Two field duplicates were collected with the sample set. One field duplicate was analyzed for mercury, DUP 2. Acceptable precision (RPD <40% for results greater than five times the RL and ±2 times the RL for results less than five times the RL) was demonstrated between the field duplicate and the original sample, COMPOSITE 1.

6.8 Sensitivity

The samples were reported to the MDL. No elevated non-detect results were reported.

The MDL was at or below the NYSDEC DER10 App 5 Constituent Level for Imported Fill or Soil Restricted Residential Use May 2010 listed in the EDD.

6.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The samples were reported to the MDL in the hardcopy report; the nondetect results in the EDD were reported to the RL. In addition, the QC data were not included in the EDD. No other discrepancies were identified between the level II report and the EDD.

7.0 HEXAVALENT CHROMIUM

The samples were analyzed for hexavalent chromium by EPA Methods 3060A/7196A.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues

were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Field Duplicate
- ✓ Sensitivity
- ⊗ Electronic Data Deliverable Review

7.1 Overall Assessment

The hexavalent chromium data reported in this data set are considered usable for meeting project objectives. The analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this data set is 100%.

7.2 Holding Times

The holding times for the hexavalent chromium analysis of solid samples are 30 days from sample collection to digestion and 7 days from digestion to analysis. The holding times were met for the sample analyses.

7.3 Method Blanks

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two method blanks were reported (batches WG1000369 and WG1000857). Hexavalent chromium was not detected in the method blanks above the MDL.

7.4 Matrix Spike/Matrix Spike Duplicate

One sample set specific MS/MSD pair was reported, using sample COMPOSITE 2. The RPD result was within the laboratory specified acceptance criteria. The recoveries were low and outside the laboratory specified acceptance criteria. In addition, the laboratory indicated that this sample was in a reductive state. Additional information was sent by the laboratory, documenting the reductive nature of the sample. Therefore, based on professional and technical judgment, no qualification was applied to the hexavalent chromium result in sample COMPOSITE 2.

7.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two LCS/LCSD pairs were reported. The recovery and RPD results were within the laboratory specified acceptance criteria.

7.6 Laboratory Duplicate

Three batch laboratory duplicates were reported. Since these were batch QC, there was no impact on the data and no qualifications were applied to the data.

7.7 Field Duplicate

Two field duplicates were collected with the sample set. One field duplicate was analyzed for hexavalent chromium, DUP 2. Acceptable precision (RPD <40% for results greater than five times the RL and ±2 times the RL for results less than five times the RL) was demonstrated between the field duplicate and the original sample, COMPOSITE 1.

7.8 Sensitivity

The samples were reported to the MDL. No elevated non-detect results were reported.

The MDL was at or below the NYSDEC DER10 App 5 Constituent Level for Imported Fill or Soil Restricted Residential Use May 2010 listed in the EDD.

7.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The samples were reported to the MDL in the hardcopy report; the nondetect results in the EDD were reported to the RL. In addition, the QC data were not included in the EDD. No other discrepancies were identified between the level II report and the EDD.

8.0 TOTAL CYANIDE

The samples were analyzed for total cyanide by EPA Methods 9012B.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

✓ Overall Assessment
✓ Holding Times
✓ Method Blank
⊗ Matrix Spike/Matrix Spike Duplicate
✓ Laboratory Control Sample
✓ Laboratory Duplicate
✓ Field Duplicate
✓ Sensitivity
✓ Electronic Data Deliverable Review

8.1 Overall Assessment

The total cyanide data reported in this data set are considered usable for meeting project objectives. The analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this data set is 100%.

8.2 Holding Times

The holding time for the total cyanide analysis of solid samples is 14 days from sample collection to analysis. The holding times were met for the sample analyses.

8.3 Method Blanks

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch WG1001620). Cyanide was not detected in the method blank above the MDL.

8.4 Matrix Spike

MS/MSD pairs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One sample set specific MS/MSD pair was reported, using sample COMPOSITE 2. The RPD result was within the laboratory specified acceptance criteria. The recoveries were low and outside the laboratory specified acceptance criteria. Therefore, the concentration of cyanide in sample COMPOSITE 2 was J- qualified as estimated with a low bias.

Sample ID	Compound	Laboratory Result (mg/kg)	Laboratory Flag	Validation Result (mg/kg)	Validation Qualifier	Reason Code
COMPOSITE 2	Cyanide	0.0505	J J6	0.0505	J-	4

mg/kg-milligrams per kilogram

J6-laboratory flag indicating that the sample matrix interfered with the ability to make any accurate determination; spike value is low

8.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS/LCSD pair was reported. The recovery and RPD results were within the laboratory specified acceptance criteria.

8.6 Laboratory Duplicate

Two batch laboratory duplicates were reported. Since these were batch QC, there was no impact on the data and no qualifications were applied to the data.

8.7 Field Duplicate

Two field duplicates were collected with the sample set. One field duplicate was analyzed for cyanide, DUP 2. Acceptable precision (RPD <40% for results greater than five times the RL and ±2 times the RL for results less than five times the RL) was demonstrated between the field duplicate and the original sample, COMPOSITE 1.

8.8 Sensitivity

The samples were reported to the MDL. No elevated non-detect results were reported.

The MDL was at or below the NYSDEC DER10 App 5 Constituent Level for Imported Fill or Soil Restricted Residential Use May 2010 listed in the EDD.

8.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The samples were reported to the MDL in the hardcopy report; the nondetect results in the EDD were reported to the RL. In addition, the QC data were not included in the EDD. No other discrepancies were identified between the level II report and the EDD.

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ATTACHMENT 1
DATA VALIDATION QUALIFIER DEFINITIONS AND INTERPRETATION KEY
Assigned by Geosyntec's Data Validation Team

DATA QUALIFIER DEFINITIONS

U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

J+ The analyte was positively identified; however, the associated numerical value is likely to be higher that the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.

J- The analyte was positively identified; however, the associated numerical value is likely to be lower that the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ATTACHMENT 2
DATA VALIDATION REASON CODES
Assigned by Geosyntec's Data Validation Team

Valid Value	Description
1	Preservation requirement not met
2	Analysis holding time exceeded
3	Blank contamination (i.e., method, trip, equipment, etc.)
4	Matrix spike/matrix spike duplicate recovery or RPD outside limits
5	LCS recovery outside limits
6	Surrogate recovery outside limits
7	Field Duplicate RPD exceeded
8	Serial dilution percent difference exceeded
9	Calibration criteria not met
10	Linear range exceeded
11	Internal standard criteria not met
12	Lab duplicates RPD exceeded
13	Other

RPD-relative percent difference

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Memorandum

Date:	14 August 2017
To:	Aron Krasnopoler
From:	Chris Pracheil
CC:	J. Caprio
Subject:	**Stage 2A Data Validation - Level II Data Deliverable, TestAmerica Job ID # 180-68509-1**

SITE: Former Sperry Remington Site-North IRM

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of fifteen solid samples, two field duplicate samples, and one trip blank, collected July 24, 2017, as part of the Former Sperry Remington Site-North IRM project. The analyses were performed at TestAmerica Laboratories, Inc., Pittsburgh, Pennsylvania. The samples were analyzed for the following tests:

- Volatile Organic Compounds (VOCs) by EPA Methods 8260C and 5035/8260C
- Semivolatile Organic Compounds (SVOCs) by EPA Methods 3541/8270D
- Polychlorinated Biphenyls (PCBs) by EPA Methods 3541/8082A
- Metals by EPA Methods 3050B/6010C
- Mercury by EPA Method 7471B
- Total Cyanide by EPA Methods 9010C/9014
- Total Solids by Standard Method 2540G

EXECUTIVE SUMMARY

The samples were handled, prepared, and measured in the same manner under similar prescribed conditions.

Overall, based on this Stage 2A data validation covering the quality control (QC) parameters listed below, the data are usable for meeting project objectives. Qualified data should be used within the limitations of the qualification.

The data were validated the Quality Assurance Project Plan (QAPP) for Former Sperry Remington Facility Industrial Outfall Site, Elmira, New York, NYSDEC Site I.D. # 808043, NY09-2480-04,

July 7, 2010, Revised November 11, 2010, USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review, January 2017 (EPA 540-R-2017-002), USEPA Contract Laboratory Program National Functional Guidelines for Superfund Inorganic Methods Data Review, January 2017 (EPA 540-R-2017-001), the pertinent methods referenced by the laboratory report and professional and technical judgment.

The following samples were analyzed and validated at Stage 2A level in the data set:

Laboratory ID	Client ID
180-68509-1	WB 7-8, S1, A 072417
180-68509-2	WB 7-8, S1, B 072417
180-68509-3	WB 7-8, S1, C 072417
180-68509-4	WB 7-8, S2, A 072417
180-68509-5	WB 7-8, S2, B 072417
180-68509-6	WB 7-8, S2, C 072417
180-68509-7	WB 7-8, S3, A 072417
180-68509-8	WB 7-8, S3, B 072417
180-68509-9	WB 7-8, S3, C 072417

Laboratory ID	Client ID
180-68509-10	WB 7-8, S4, A 072417
180-68509-11	WB 7-8, S4, B 072417
180-68509-12	WB 7-8, S4, C 072417
180-68509-13	W9, S1, A 072417
180-68509-14	W9, S1, B 072417
180-68509-15	W9, S1, C 072417
180-68509-22	TRIP BLANK
180-68509-23	DUP 15
180-68509-24	DUP 14

The samples were received at the laboratory at 2.6ºC, 4.1ºC and 4.4ºC within the criteria of 0-6ºC. No sample preservation issues were noted by the laboratory.

The following sample receiving issues were noted:

- Incorrect error corrections were observed on the chain of custody (COC), instead of the proper procedure of a single strike through, correction, and initials and date of person making the corrections.

- Sample collection times were not documented on the COC for field duplicate samples DUP 15 and DUP 14. The laboratory assigned collection times of 00:00. In addition, no sample collection dates or times were documented on the COC for the trip blank. The laboratory assigned collection date and time of 7/24/17, 00:00.

- Samples W9, S2, C 072417; W9, S3, C 072417; W9, S4, C 072417; W9, S2, A 072417; W9, S3, A 072417; W9, S4, A 072417 and DUP 16 were listed on the COC and reported in laboratory report 180-68509-2.

The solids data, used to report the samples on a dry weight basis, were not validated.

1.0 VOLATILE ORGANIC COMPOUNDS

The samples were analyzed for VOCs by EPA methods 8260C and 5035/8260B.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Surrogates
- ✓ Trip Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

1.1 Overall Assessment

The VOC data reported in this package are considered usable for meeting project objectives. The analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this package is 100%.

1.2 Holding Times

The holding times for the VOC analysis of a solid sample collected using a Terracore are 48 hours from collection to laboratory receipt and 14 days from sample collection to analysis. The holding times were met for the sample analyses.

1.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Three method blanks were reported (batches 218093, 218110 and 218236). VOCs were not detected in the method blank above the method detection limits (MDLs).

1.4 Matrix Spike/Matrix Spike Duplicate (MS/MSD)

MS/MSD pairs were not reported with the sample set.

1.5 Laboratory Control Sample (LCS)

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Three LCSs were reported. The recovery results were within the laboratory specified acceptance criteria.

1.6 Surrogates

Acceptable surrogate recoveries were reported.

1.7 Trip Blank

One trip blank, TRIP BLANK, accompanied the samples. VOCs were not detected in the trip blank above the MDLs.

1.8 Field Duplicate

Two field duplicates were collected with the sample set. One field duplicate was analyzed for VOCs, DUP 15. Acceptable precision [relative percent difference (RPD) <40% for results greater than five times the reporting limit (RL) and ±2 times the RL for results less than five times the RL] was demonstrated between the field duplicate and the original sample, W9, S1, A 072417.

1.9 Sensitivity

The samples were reported to the MDLs. No elevated non-detect results were reported.

The MDLs were at or below the NYSDEC DER10 App 5 Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010.

1.10 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The sample date and time was added to the sample IDs in the EDD and was not add to the sample IDs in the laboratory report. No other discrepancies were identified between the level II report and the EDD.

2.0 SEMIVOLATILE ORGANIC COMPOUNDS

The samples were analyzed for SVOCs by EPA methods 3541/8270D.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Surrogates
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

2.1 Overall Assessment

The SVOC data reported in this package are considered usable for meeting project objectives. The analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this package is 100%.

2.2 Holding Times

The holding times for SVOC analysis of solid samples are 14 days from sample collection to extraction and 40 days from extraction to analysis. The holding times were met for the sample analyses.

2.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 218278). SVOCs were not detected in the method blank above the MDLs.

2.4 Matrix Spike/Matrix Spike Duplicate

MS/MSD pairs were not reported with the sample set.

2.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery results were within the laboratory specified acceptance criteria.

2.6 Surrogates

Acceptable surrogate recoveries were reported.

2.7 Field Duplicate

Two field duplicates were collected with the sample set. One field duplicate was analyzed for SVOCs, DUP 14. Acceptable precision (RPD <40% for results greater than five times the RL and ±2 times the RL for results less than five times the RL) was demonstrated between the field duplicate and the original sample, WB 7-8, S4, C 072417.

2.8 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were reported for samples W9, S1, C 072417, WB 7-8, S2, C 072417 and DUP 14 due to the dilutions analyzed.

The MDLs were at or below the NYSDEC DER10 App 5 Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010 listed in the EDD. It was noted that no NYSDEC DER10 App 5 Constituent Levels for Imported Fill were listed for the following compounds:

2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dinitrotoluene
2-Methylphenol
Dibenzofuran
Hexachlorobenzene

Hexachlorobutadiene
Hexachloroethane
Methylphenol, 3 & 4
Nitrobenzene
Pyridine

2.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The sample date and time was added to the sample IDs in the EDD and was not add to the sample IDs in the laboratory report. No other discrepancies were identified between the level II report and the EDD.

3.0 POLYCHLORINATED BIPHENYLS

The samples were analyzed for PCBs by EPA Methods 3541/8082A.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

⊗ Overall Assessment
✓ Holding Times
✓ Method Blank
✓ Matrix Spike/Matrix Spike Duplicate
✓ Laboratory Control Sample
✓ Surrogates
✓ Field Duplicate
✓ Sensitivity
✓ Electronic Data Deliverable Review

3.1 Overall Assessment

The PCB data reported in this data set are considered usable for meeting project objectives. The analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this data set is 100%.

The samples contain mixtures of PCBs 1248, 1254 and 1260 and PCBs 1248 and 1254. There are peaks in 1248 and 1254 that are in both of these PCBs and peaks in 1254 and 1260 that are in both of these PCBs; therefore, there is contribution between PCBs when more than one PCB is detected in a sample. Therefore, based on professional and technical judgment, the concentrations of PCBs 1248, 1254 and 1260 in these samples were J qualified as estimated.

Sample ID	Compound	Laboratory Concentration (mg/kg)	Laboratory Flag	Validation Concentration (mg/kg)	Validation Qualifier*	Reason Code**
DUP 14	PCB-1248	1.5	NA	1.5	J	13
DUP 14	PCB-1254	0.48	NA	0.48	J	13
DUP 14	PCB-1260	0.043	NA	0.043	J	13
W9, S1, C 072417	PCB-1248	0.15	NA	0.15	J	13
W9, S1, C 072417	PCB-1254	0.053	NA	0.053	J	13

Sample ID	Compound	Laboratory Concentration (mg/kg)	Laboratory Flag	Validation Concentration (mg/kg)	Validation Qualifier*	Reason Code**
WB 7-8, S1, C 072417	PCB-1248	1.3	NA	1.3	J	13
WB 7-8, S1, C 072417	PCB-1254	0.50	NA	0.50	J	13
WB 7-8, S1, C 072417	PCB-1260	0.054	NA	0.054	J	13
WB 7-8, S2, C 072417	PCB-1248	0.79	NA	0.79	J	13
WB 7-8, S2, C 072417	PCB-1254	0.30	NA	0.30	J	13
WB 7-8, S2, C 072417	PCB-1260	0.043	NA	0.043	J	13
WB 7-8, S3, C 072417	PCB-1248	1.3	NA	1.3	J	13
WB 7-8, S3, C 072417	PCB-1254	0.46	NA	0.46	J	13
WB 7-8, S3, C 072417	PCB-1260	0.050	NA	0.050	J	13
WB 7-8, S4, C 072417	PCB-1248	1.0	NA	1.0	J	13
WB 7-8, S4, C 072417	PCB-1254	0.42	NA	0.42	J	13
WB 7-8, S4, C 072417	PCB-1260	0.040	NA	0.040	J	13

mg/kg-milligrams per kilogram
NA-not applicable
* Validation qualifiers are defined in Attachment 1 at the end of this report
**Reason codes are defined in Attachment 2 at the end of this report

3.2 Holding Times

No holding times are listed in the referenced method for PCB analyses. The samples were extracted and analyzed within 3 days of collection. Therefore, no qualifications were applied to the data, based on professional and technical judgment.

3.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 218112). PCBs were not detected in the method blank above the MDLs.

3.4 Matrix Spike/Matrix Spike Duplicate

MS/MSD pairs were not reported with the sample set.

3.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery results were within the laboratory specified acceptance criteria.

3.6 Surrogates

Acceptable surrogate recoveries were reported for the sample analyses.

3.7 Field Duplicate

Two field duplicates were collected with the sample set. One field duplicate was analyzed for PCBs, DUP 14. Acceptable precision (RPD <40% for results greater than five times the RL and ±2 times the RL for results less than five times the RL) was demonstrated between the field duplicate and the original sample, WB 7-8, S4, C 072417.

3.8 Sensitivity

The samples were reported to the MDLs. No elevated non-detect results were reported.

It was noted that no NYSDEC constituent levels were listed for PCBs.

3.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The sample date and time was added to the sample IDs in the EDD and was not add to the sample IDs in the laboratory report. No other discrepancies were identified between the level II report and the EDD.

4.0 METALS

The samples were analyzed for metals by EPA methods 3050B/6010C (Mercury evaluated separately in Section 5.0, below).

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

✓ Overall Assessment

- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

4.1 Overall Assessment

The metals data reported in this data set are considered usable for meeting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this data set is 100%.

4.2 Holding Times

The holding time for the metals analysis of solid samples is 180 days from sample collection to analysis. The holding times were met for the sample analyses.

4.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 218293). The metals were not detected in the method blank above the MDLs.

4.4 Matrix Spike/Matrix Spike Duplicate

MS/MSD pairs were not reported with the sample set.

4.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery results were within the laboratory specified acceptance criteria.

4.6 Laboratory Duplicate

A laboratory duplicate was not reported.

4.7 Field Duplicate

Two field duplicates were collected with the sample set. One field duplicate was analyzed for metals, DUP 14. Acceptable precision (RPD <40% for results greater than five times the RL and ±2 times the RL for results less than five times the RL) was demonstrated between the field duplicate and the original sample, WB 7-8, S4, C 072417.

4.8 Sensitivity

The samples were reported to the MDLs. No elevated non-detect results were reported.

The MDLs were at or below the NYSDEC DER10 App 5 Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010. It was noted that no NYSDEC constituent level was listed in the EDD for chromium.

4.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The sample date and time was added to the sample IDs in the EDD and was not add to the sample IDs in the laboratory report. No other discrepancies were identified between the level II report and the EDD.

5.0 MERCURY

The samples were analyzed for mercury by EPA method 7471B.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

5.1 Overall Assessment

The mercury data reported in this data set are considered usable for meeting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this data set is 100%.

5.2 Holding Times

The holding time for the mercury analysis of solid samples is 28 days from sample collection to analysis. The holding times were met for the sample analyses.

5.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 218097). Mercury was not detected in the method blank above the MDL.

5.4 Matrix Spike/Matrix Spike Duplicate

MS/MSD pairs were not reported with the sample set.

5.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS/Laboratory control sample duplicate (LCSD) pair was reported. The recovery and RPD results were within the laboratory specified acceptance criteria.

5.6 Laboratory Duplicate

A laboratory duplicate was not reported.

5.7 Field Duplicate

Two field duplicates were collected with the sample set. One field duplicate was analyzed for mercury, DUP 14. Acceptable precision (RPD <40% for results greater than five times the RL and ±2 times the RL for results less than five times the RL) was demonstrated between the field duplicate and the original sample, WB 7-8, S4, C 072417.

5.8 Sensitivity

The samples were reported to the MDL. No elevated non-detect results were reported.

The MDL was at or below the NYSDEC DER10 App 5 Constituent Level for Imported Fill or Soil Restricted Residential Use May 2010.

5.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The sample date and time was added to the sample IDs in the EDD and was not add to the sample IDs in the laboratory report. No other discrepancies were identified between the level II report and the EDD.

6.0 TOTAL CYANIDE

The samples were analyzed for total cyanide by EPA Methods 9010C/ 9014.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

6.1 Overall Assessment

The total cyanide data reported in this data set are considered usable for meeting project objectives. The analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this data set is 100%.

6.2 Holding Times

The holding time for the total cyanide analysis of solid samples is 14 days from sample collection to analysis. The holding times were met for the sample analyses.

6.3 Method Blanks

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 218282). Cyanide was not detected in the method blank above the MDL.

6.4 Matrix Spike

MS/MSD pairs were not reported with the sample set.

6.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Three LCSs were reported. The recovery results were within the laboratory specified acceptance criteria.

6.6 Laboratory Duplicate

Laboratory duplicates were not reported.

6.7 Field Duplicate

Two field duplicates were collected with the sample set. One field duplicate was analyzed for cyanide, DUP 14. Acceptable precision (RPD <40% for results greater than five times the RL and ±2 times the RL for results less than five times the RL) was demonstrated between the field duplicate and the original sample, WB 7-8, S4, C 072417.

6.8 Sensitivity

The samples were reported to the MDL. No elevated non-detect results were reported.

The MDL was at or below the NYSDEC DER10 App 5 Constituent Level for Imported Fill or Soil Restricted Residential Use May 2010.

6.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The sample date and time was added to the sample IDs in the EDD and was not add to the sample IDs in the laboratory report. No other discrepancies were identified between the level II report and the EDD.

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ATTACHMENT 1
DATA VALIDATION QUALIFIER DEFINITIONS AND INTERPRETATION KEY
Assigned by Geosyntec's Data Validation Team

DATA QUALIFIER DEFINITIONS

U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

J+ The analyte was positively identified; however, the associated numerical value is likely to be higher that the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.

J- The analyte was positively identified; however, the associated numerical value is likely to be lower that the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ATTACHMENT 2
DATA VALIDATION REASON CODES
Assigned by Geosyntec's Data Validation Team

Valid Value	Description
1	Preservation requirement not met
2	Analysis holding time exceeded
3	Blank contamination (i.e., method, trip, equipment, etc.)
4	Matrix spike/matrix spike duplicate recovery or RPD outside limits
5	LCS recovery outside limits
6	Surrogate recovery outside limits
7	Field Duplicate RPD exceeded
8	Serial dilution percent difference exceeded
9	Calibration criteria not met
10	Linear range exceeded
11	Internal standard criteria not met
12	Lab duplicates RPD exceeded
13	Other

RPD-relative percent difference

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Memorandum

Date:	14 August 2017
To:	Aron Krasnopoler
From:	Chris Pracheil
CC:	J. Caprio
Subject:	**Stage 2A Data Validation - Level II Data Deliverable, TestAmerica Job ID # 180-68556-1**

SITE: Former Sperry Remington Site-North IRM

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of nine solid samples, including two samples for matrix spike/matrix spike duplicate (MS/MSD) analyses, one field duplicate sample, and one trip blank, collected July 25, 2017, as part of the Former Sperry Remington Site-North IRM project. The analyses were performed at TestAmerica Laboratories, Inc., Pittsburgh, Pennsylvania. The samples were analyzed for the following tests:

- Volatile Organic Compounds (VOCs) by EPA Methods 5035/8260C
- Semivolatile Organic Compounds (SVOCs) by EPA Methods 3541/8270D
- Polychlorinated Biphenyls (PCBs) by EPA Methods 3541/8082A
- Metals by EPA Methods 3050B/6010C
- Mercury by EPA Method 7471B
- Total Cyanide by EPA Method 9014
- Total Solids by Standard Method 2540G

EXECUTIVE SUMMARY

The samples were handled, prepared, and measured in the same manner under similar prescribed conditions.

Overall, based on this Stage 2A data validation covering the quality control (QC) parameters listed below, the data as qualified are usable for meeting project objectives. Qualified data should be used within the limitations of the qualification.

The data were validated the Quality Assurance Project Plan (QAPP) for Former Sperry Remington Facility Industrial Outfall Site, Elmira, New York, NYSDEC Site I.D. # 808043, NY09-2480-04, July 7, 2010, Revised November 11, 2010, USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review, January 2017 (EPA 540-R-2017-002), USEPA Contract Laboratory Program National Functional Guidelines for Superfund Inorganic Methods Data Review, January 2017 (EPA 540-R-2017-001), the pertinent methods referenced by the laboratory report and professional and technical judgment.

The following samples were analyzed and validated at Stage 2A level in the data set:

Laboratory ID	Client ID
180-68556-1	WB7-8, S5, A 72517
180-68556-2	WB7-8, S5, B 72517
180-68556-3	WB7-8, S5, C 72517
180-68556-4	WB6-7, S1, A 72517
180-68556-5	WB6-7, S1, B 72517
180-68556-6	WB6-7, S1, C 72517

Laboratory ID	Client ID
180-68556-7	WB6-7, S2, A 72517
180-68556-8	WB6-7, S2, B 72517
180-68556-9	WB6-7, S2, C 72517
180-68556-10	DUP 17 72517
180-68556-11	TRIP BLANK

The samples were received at the laboratory at 2.7°C, within the criteria of 0-6°C. No sample preservation issues were noted by the laboratory.

The following sample receiving issues were noted:

- Incorrect error corrections were observed on the chain of custody (COC), instead of the proper procedure of a single strike through, correction, and initials and date of person making the corrections.
- Sample collection times were not documented on the COC for field duplicate samples DUP 17, 72517. The laboratory assigned collection times of 00:00.
- The sample ID listed on the COC for the trip blank was TRIP BLANK #1. The laboratory logged the sample in with the ID TRIP BLANK. In addition, no collection date or time were documented on the COC for the trip blank. The laboratory assigned collection date and time of 7/25/17, 00:00.
- There was rush sticker on the COC, obliterating part of the analysis request section of the COC.

The solids data, used to report the samples on a dry weight basis, were not validated.

1.0 VOLATILE ORGANIC COMPOUNDS

The samples were analyzed for VOCs by EPA methods 8260C and 5035/8260B.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Surrogates
- ✓ Trip Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

1.1 Overall Assessment

The VOC data reported in this package are considered usable for meeting project objectives. The analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this package is 100%.

1.2 Holding Times

The holding times for the VOC analysis of a solid sample collected using a Terracore are 48 hours from collection to laboratory receipt and 14 days from sample collection to analysis. The holding times were met for the sample analyses.

1.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two method blanks were reported (batches 218214 and 218236). VOCs were not detected in the method blanks above the method detection limits (MDLs).

1.4 Matrix Spike/Matrix Spike Duplicate

MS/MSD pairs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). A sample set specific MS/MSD pair was reported, using sample WB7-8, S5, A 72517. The recovery and relative percent difference (RPD) results were within the laboratory specified acceptance criteria, with the following exceptions.

One or both recoveries of carbon tetrachloride, n-propylbenzene, 1,1,1-trichloroethane and 1,2,4-trimethylbenzene were high, outside laboratory specified acceptance criteria. Since these compounds were not detected in sample WB7-8, S5, A 72517, no qualifications were applied to the data.

1.5 Laboratory Control Sample (LCS)

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two LCSs were reported. The recovery results were within the laboratory specified acceptance criteria.

1.6 Surrogates

Acceptable surrogate recoveries were reported.

1.7 Trip Blank

One trip blank, TRIP BLANK, accompanied the samples. VOCs were not detected in the trip blank above the MDLs, with the following exception.

Acetone was detected in the trip blank at a concentration greater than the RL. Since acetone was not detected in the associated samples, no qualifications were applied to the data.

1.8 Field Duplicate

One field duplicate, DUP 17 72517 was collected with the sample set. Acceptable precision [RPD <40% for results greater than five times the reporting limit (RL) and ±2 times the RL for results less than five times the RL] was demonstrated between the field duplicate and the original sample, WB6-7, S1, B 72517.

1.9 Sensitivity

The samples were reported to the MDLs. No elevated non-detect results were reported.

The MDLs were at or below the NYSDEC DER10 App 5 Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010.

1.10 Electronic Data Deliverable (EDD) Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The sample date and time was added to the sample IDs in the EDD and was not added to the sample IDs in the laboratory report. No other discrepancies were identified between the level II report and the EDD.

2.0 SEMIVOLATILE ORGANIC COMPOUNDS

The samples were analyzed for SVOCs by EPA methods 3541/8270D.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

✓ Overall Assessment
✓ Holding Times
✓ Method Blank
⊗ Matrix Spike/Matrix Spike Duplicate
✓ Laboratory Control Sample
✓ Surrogates
✓ Field Duplicate
✓ Sensitivity
✓ Electronic Data Deliverable Review

2.1 Overall Assessment

The SVOC data reported in this package are considered usable for meeting project objectives. The analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this package is 100%.

2.2 Holding Times

The holding times for SVOC analysis of solid samples are 14 days from sample collection to extraction and 40 days from extraction to analysis. The holding times were met for the sample analyses.

2.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 218278). SVOCs were not detected in the method blank above the MDLs.

2.4 Matrix Spike/Matrix Spike Duplicate

MS/MSD pairs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). A sample set specific MS/MSD pair was reported, using sample WB7-8, S5, C 72517. The recovery and RPD results were within the laboratory specified acceptance criteria, with the following exceptions.

The MS recoveries of acenaphthylene, anthracene, benzo[a]anthracene, benzo[b]fluoranthene, benzo[k]fluoranthene, phenanthrene, pyrene and pyridine were low, outside the laboratory specified acceptance criteria and the RPDs for these compounds were high outside the laboratory specified acceptance criteria. Therefore, based on the low recoveries, the non-detect result of pyridine in sample WB7-8, S5, C 72517 was UJ qualified as estimated less than the MDL and based on the low recoveries and high RPDs, the concentrations of acenaphthylene, anthracene, benzo[a]anthracene, benzo[b]fluoranthene, benzo[k]fluoranthene, phenanthrene and pyrene in sample WB7-8, S5, C 72517 were J qualified as estimated.

In addition, the RPDs of the following compounds were high and outside laboratory specified acceptance criteria. Therefore, the concentrations of these compounds in sample WB7-8, S5, C 72517 were J qualified as estimated.

Acenaphthene
Benzo[a]pyrene
Benzo[g,h,i]perylene
Chrysene
Dibenz(a,h)anthracene
Dibenzofuran
1,4-Dioxane
Fluoranthene

Fluorene
Hexachlorobenzene
Indeno[1,2,3-cd]pyrene
Methylphenol, 2-
Pentachlorophenol
Methylphenol, 3 & 4
Naphthalene
Phenol

Hexachloroethane
Nitrobenzene
Hexachlorobutadiene
2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dinitrotoluene

Sample	Compound	Laboratory Result (mg/kg)	Laboratory Flag	Validation Result (mg/kg)	Validation Qualifier*	Reason Code**
WB7-8, S5, C 72517	Acenaphthene	0.0091	F2	0.0091	J	4
WB7-8, S5, C 72517	Acenaphthylene	0.038	F2,F1	0.038	J	4
WB7-8, S5, C 72517	Anthracene	0.036	F2,F1	0.036	J	4
WB7-8, S5, C 72517	Benzo[a]anthracene	0.097	F2,F1	0.097	J	4
WB7-8, S5, C 72517	Benzo[a]pyrene	0.10	F2	0.10	J	4
WB7-8, S5, C 72517	Benzo[b]fluoranthene	0.14	F2,F1	0.14	J	4
WB7-8, S5, C 72517	Benzo[g,h,i]perylene	0.096	F2	0.096	J	4
WB7-8, S5, C 72517	Benzo[k]fluoranthene	0.051	F2,F1	0.051	J	4
WB7-8, S5, C 72517	Chrysene	0.11	F2	0.11	J	4
WB7-8, S5, C 72517	Dibenz(a,h)-anthracene	0.024	F2	0.024	J	4
WB7-8, S5, C 72517	Dibenzofuran	0.0075	J,F2	0.0075	J	4
WB7-8, S5, C 72517	Fluoranthene	0.18	F2	0.18	J	4
WB7-8, S5, C 72517	Fluorene	0.011	F2	0.011	J	4
WB7-8, S5, C 72517	Indeno[1,2,3-cd]pyrene	0.082	F2	0.082	J	4
WB7-8, S5, C 72517	Methylphenol, 3 & 4	0.012	J,F2	0.012	J	4
WB7-8, S5, C 72517	Naphthalene	0.015	F2	0.015	J	4
WB7-8, S5, C 72517	Phenanthrene	0.085	F2,F1	0.085	J	4
WB7-8, S5, C 72517	Pyrene	0.15	F2,F1	0.15	J	4
WB7-8, S5, C 72517	Pyridine	4.2	U, F1	4.2	UJ	4

mg/kg-milligrams per kilogram
J- Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1-laboratory flag indicating the MS and/or MSD recovery is outside acceptance limits.
F2- laboratory flag indicating the MS/MSD RPD exceeds control limits.
* Validation qualifiers are defined in Attachment 1 at the end of this report
**Reason codes are defined in Attachment 2 at the end of this report

2.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery results were within the laboratory specified acceptance criteria.

2.6 Surrogates

Acceptable surrogate recoveries were reported.

2.7 Field Duplicate

A field duplicate was collected, but was not analyzed for SVOCs.

2.8 Sensitivity

The samples were reported to the MDLs. No elevated non-detect results were reported.

The MDLs were at or below the NYSDEC DER10 App 5 Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010. It was noted that no NYSDEC DER10 App 5 Constituent Levels for Imported Fill were listed for the following compounds:

2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dinitrotoluene
2-Methylphenol
Dibenzofuran
Hexachlorobenzene

Hexachlorobutadiene
Hexachloroethane
Methylphenol, 3 & 4
Nitrobenzene
Pyridine

2.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The sample date and time was added to the sample IDs in the EDD and was not added to the sample IDs in the laboratory report. No other discrepancies were identified between the level II report and the EDD.

3.0 POLYCHLORINATED BIPHENYLS

The samples were analyzed for PCBs by EPA Methods 3541/8082A.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

⊗ Overall Assessment
✓ Holding Times
✓ Method Blank
✓ Matrix Spike/Matrix Spike Duplicate
✓ Laboratory Control Sample
✓ Surrogates
✓ Field Duplicate
✓ Sensitivity
✓ Electronic Data Deliverable Review

3.1 Overall Assessment

The PCB data reported in this data set are considered usable for meeting project objectives. The analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this data set is 100%.

The samples contain mixtures of PCBs 1248, 1254 and 1260. There are peaks in 1248 and 1254 that are in both of these PCBs and peaks in 1254 and 1260 that are in both of these PCBs; therefore, there is contribution between PCBs when more than one PCB is detected in a sample. Therefore, based on professional and technical judgment, the concentrations of PCBs 1248, 1254 and 1260 in these samples were J qualified as estimated.

Sample ID	Compound	Laboratory Concentration (mg/kg)	Laboratory Flag	Validation Concentration (mg/kg)	Validation Qualifier	Reason Code
WB6-7, S1, C 72517	PCB-1248	0.78	NA	0.78	J	13
WB6-7, S1, C 72517	PCB-1254	0.29	NA	0.29	J	13
WB6-7, S1, C 72517	PCB-1260	0.041	NA	0.041	J	13
WB6-7, S2, C 72517	PCB-1248	0.98	NA	0.98	J	13
WB6-7, S2, C 72517	PCB-1254	0.43	NA	0.43	J	13
WB6-7, S2, C 72517	PCB-1260	0.059	NA	0.059	J	13

Sample ID	Compound	Laboratory Concentration (mg/kg)	Laboratory Flag	Validation Concentration (mg/kg)	Validation Qualifier	Reason Code
WB7-8, S5, C 72517	PCB-1248	0.87	NA	0.87	J	13
WB7-8, S5, C 72517	PCB-1254	0.36	NA	0.36	J	13
WB7-8, S5, C 72517	PCB-1260	0.038	NA	0.038	J	13

mg/kg-milligrams per kilograms
NA-not applicable

3.2 Holding Times

No holding times are listed in the referenced method for PCB analyses. The samples were extracted and analyzed within 3 days of collection. Therefore, no qualifications were applied to the data, based on professional and technical judgment.

3.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 218279). PCBs were not detected in the method blank above the MDLs.

3.4 Matrix Spike/Matrix Spike Duplicate

MS/MSD pairs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). A sample set specific MS/MSD pair was reported, using sample WB7-8, S5, C 72517. The recovery and RPD results were within the laboratory specified acceptance criteria.

3.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery results were within the laboratory specified acceptance criteria.

3.6 Surrogates

Acceptable surrogate recoveries were reported.

3.7 Field Duplicate

A field duplicate was collected, but was not analyzed for PCBs.

3.8 Sensitivity

The samples were reported to the MDLs. No elevated non-detect results were reported.

It was noted that no NYSDEC constituent levels were listed for PCBs.

3.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The sample date and time was added to the sample IDs in the EDD and was not added to the sample IDs in the laboratory report. No other discrepancies were identified between the level II report and the EDD.

4.0 METALS

The samples were analyzed for metals by EPA methods 3050B/6010C (Mercury evaluated separately in Section 5.0, below).

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

4.1 Overall Assessment

The metals data reported in this data set are considered usable for meeting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid

analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this data set is 100%.

4.2 Holding Times

The holding time for the metals analysis of solid samples is 180 days from sample collection to analysis. The holding times were met for the sample analyses.

4.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 218293). The metals were not detected in the method blank above the MDLs.

4.4 Matrix Spike/Matrix Spike Duplicate

MS/MSD pairs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). A sample set specific MS/MSD pair was reported, using sample WB7-8, S5, C 72517. The recovery and RPD results were within the laboratory specified acceptance criteria, with the following exception.

The MS recovery of manganese was high, outside laboratory specific acceptance criteria. Since the concentration of manganese in the parent sample was greater than four times the spike concentration, no qualifications were applied to the data, based on technical and professional judgement.

4.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery results were within the laboratory specified acceptance criteria.

4.6 Laboratory Duplicate

A laboratory duplicate was not reported.

4.7 Field Duplicate

A field duplicate was collected, but was not analyzed for metals.

4.8 Sensitivity

The samples were reported to the MDLs. No elevated non-detect results were reported.

The MDLs were at or below the NYSDEC DER10 App 5 Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010. It was noted that no NYSDEC constituent level was listed for chromium.

4.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The sample date and time was added to the sample IDs in the EDD and was not added to the sample IDs in the laboratory report. No other discrepancies were identified between the level II report and the EDD.

5.0 MERCURY

The samples were analyzed for mercury by EPA method 7471B.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

5.1 Overall Assessment

The mercury data reported in this data set are considered usable for meeting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this data set is 100%.

5.2 Holding Times

The holding time for the mercury analysis of solid samples is 28 days from sample collection to analysis. The holding times were met for the sample analyses.

5.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 218383). Mercury was not detected in the method blank above the MDL.

5.4 Matrix Spike/Matrix Spike Duplicate

MS/MSD pairs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). A sample set specific MS/MSD pair was reported, using sample WB7-8, S5, C 72517. The recovery and RPD results were within the laboratory specified acceptance criteria.

5.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery result was within the laboratory specified acceptance criteria.

5.6 Laboratory Duplicate

A laboratory duplicate was not reported.

5.7 Field Duplicate

A field duplicate was collected, but was not analyzed for mercury.

5.8 Sensitivity

The samples were reported to the MDL. No elevated non-detect results were reported.

The MDL was at or below the NYSDEC DER10 App 5 Constituent Level for Imported Fill or Soil Restricted Residential Use May 2010.

5.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The sample date and time was added to the sample IDs in the EDD and was not added to the sample IDs in the laboratory report. No other discrepancies were identified between the level II report and the EDD.

6.0 TOTAL CYANIDE

The samples were analyzed for total cyanide by EPA Methods 9010C/9014.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

6.1 Overall Assessment

The total cyanide data reported in this data set are considered usable for meeting project objectives. The analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this data set is 100%.

6.2 Holding Times

The holding time for the total cyanide analysis of solid samples is 14 days from sample collection to analysis. The holding times were met for the sample analyses.

6.3 Method Blanks

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 218282). Cyanide was not detected in the method blank above the MDL.

6.4 Matrix Spike/Matrix Spike Duplicate

MS/MSD pairs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). A sample set specific MS/MSD pair was reported, using sample WB7-8, S5, C 72517. The recovery and RPD results were within the laboratory specified acceptance criteria.

6.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Three LCSs were reported. The recovery results were within the laboratory specified acceptance criteria.

6.6 Laboratory Duplicate

Laboratory duplicates were not reported.

6.7 Field Duplicate

A field duplicate was collected, but was not analyzed for cyanide.

6.8 Sensitivity

The samples were reported to the MDL. No elevated non-detect results were reported.

The MDL was at or below the NYSDEC DER10 App 5 Constituent Level for Imported Fill or Soil Restricted Residential Use May 2010.

6.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The sample date and time was added to the sample IDs in the EDD and was not added to the sample IDs in the laboratory report. No other discrepancies were identified between the level II report and the EDD.

* * * * *

ATTACHMENT 1
DATA VALIDATION QUALIFIER DEFINITIONS AND INTERPRETATION KEY
Assigned by Geosyntec's Data Validation Team

DATA QUALIFIER DEFINITIONS

U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

J+ The analyte was positively identified; however, the associated numerical value is likely to be higher that the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.

J- The analyte was positively identified; however, the associated numerical value is likely to be lower that the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ATTACHMENT 2
DATA VALIDATION REASON CODES
Assigned by Geosyntec's Data Validation Team

Valid Value	Description
1	Preservation requirement not met
2	Analysis holding time exceeded
3	Blank contamination (i.e., method, trip, equipment, etc.)
4	Matrix spike/matrix spike duplicate recovery or RPD outside limits
5	LCS recovery outside limits
6	Surrogate recovery outside limits
7	Field Duplicate RPD exceeded
8	Serial dilution percent difference exceeded
9	Calibration criteria not met
10	Linear range exceeded
11	Internal standard criteria not met
12	Lab duplicates RPD exceeded
13	Other

RPD-relative percent difference

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Memorandum

Date:	14 August 2017
To:	Aron Krasnopoler
From:	Chris Pracheil
CC:	J. Caprio
Subject:	**Stage 2A Data Validation - Level II Data Deliverable, TestAmerica Job ID # 180-68622-1**

SITE: Former Sperry Remington Site-North IRM

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of six solid samples and one trip blank, collected July 26, 2017, as part of the Former Sperry Remington Site-North IRM project. The analyses were performed at TestAmerica Laboratories, Inc., Pittsburgh, Pennsylvania. The samples were analyzed for the following tests:

- Volatile Organic Compounds (VOCs) by EPA Methods 8260C and 5035/8260C
- Semivolatile Organic Compounds (SVOCs) by EPA Methods 3541/8270D
- Polychlorinated Biphenyls (PCBs) by EPA Methods 3541/8082A
- Metals by EPA Methods 3050B/6010C
- Mercury by EPA Method 7471B
- Total Cyanide by EPA Methods 9010C/9014
- Total Solids by Standard Method 2540G

EXECUTIVE SUMMARY

The samples were handled, prepared, and measured in the same manner under similar prescribed conditions.

Overall, based on this Stage 2A data validation covering the quality control (QC) parameters listed below, the data as qualified are usable for meeting project objectives. Qualified data should be used within the limitations of the qualification.

The data were validated based on the Quality Assurance Project Plan (QAPP) for Former Sperry Remington Facility Industrial Outfall Site, Elmira, New York, NYSDEC Site I.D. # 808043,

NY09-2480-04, July 7, 2010, Revised November 11, 2010, USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review, January 2017 (EPA 540-R-2017-002), USEPA Contract Laboratory Program National Functional Guidelines for Superfund Inorganic Methods Data Review, January 2017 (EPA 540-R-2017-001), the pertinent methods referenced by the laboratory report and professional and technical judgment.

The following samples were analyzed and validated at Stage 2A level in the data set:

Laboratory ID	Client ID
180-68622-1	WB6-7, S3, A 072617
180-68622-2	WB6-7, S3, B 072617
180-68622-3	WB6-7, S3, C 072617
180-68622-4	WB6-7, S4, A 072617

Laboratory ID	Client ID
180-68622-5	WB6-7, S4, B 072617
180-68622-6	WB6-7, S4, C 072617
180-68622-9	TRIP BLANK#1

The samples were received at the laboratory at 2.1°C within the criteria of 0-6°C. No sample preservation issues were noted by the laboratory.

The following sample receiving issues were noted:

- Incorrect error corrections were observed on the chain of custody (COC), instead of the proper procedure of a single strike through, correction, and initials and date of person making the corrections.
- There was no time documented on the COC for the sample relinquishing.
- There was rush sticker on the COC, obliterating part of the analysis request section of the COC.
- Samples WB5-6, S1, A 072617 and WB5-6, S1, C 072617 were listed on the COC and reported in laboratory report 180-68622-2.

The solids data, used to report the samples on a dry weight basis, were not validated.

1.0 VOLATILE ORGANIC COMPOUNDS

The samples were analyzed for VOCs by EPA methods 8260C and 5035/8260C.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Surrogates
- ✓ Trip Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

1.1 Overall Assessment

The VOC data reported in this package are considered usable for meeting project objectives. The analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this package is 100%.

The narrative indicated that the continuing calibration verification (CCV) percent difference (%D) for vinyl chloride was high, outside method specified acceptance criteria in analytical batch 218353. The %D was 24%D, with a low bias; the method specified acceptance criteria is 20%D. Since the %D was within the validation guidance of 25%D, no qualifications were applied to the data.

The narrative indicated that the CCV %D for acetone was high, outside method specified acceptance criteria in analytical batch 218548. The %D was 26%D, with a low bias; the method limit is 20%D. Since the %D was within the validation guidance of 40%D, no qualifications were applied to the data.

1.2 Holding Times

The holding times for the VOC analysis of a solid sample collected using a Terracore are 48 hours from collection to laboratory receipt and 14 days from sample collection to analysis. The holding time for the VOC analysis of a preserved water sample is 14 days from sample collection to analysis. The holding times were met for the sample analyses.

1.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two method blanks were reported (batches 218548 and 218356). VOCs were not detected in the method blanks above the method detection limits (MDLs).

1.4 Matrix Spike/Matrix Spike Duplicate (MS/MSD)

MS/MSD pairs were not reported with the sample set.

1.5 Laboratory Control Sample (LCS)

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS and one LCS/LCS duplicate (LCSD) pair were reported. The recovery and relative percent difference (RPD) results were within the laboratory specified acceptance criteria.

1.6 Surrogates

Acceptable surrogate recoveries were reported.

1.7 Trip Blank

One trip blank, TRIP BLANK#1, accompanied the samples. VOCs were not detected in the trip blank above the MDLs, with the following exception.

Acetone was detected at an estimated concentration, greater than the MDL and less than the RL in the trip blank. Therefore, the estimated concentrations of acetone in the associated samples were U qualified as not detected at the reporting limit (RL).

Sample	Compound	Laboratory Result (mg/kg)	Laboratory Flag	Validation Result (mg/kg)	Validation Qualifier*	Reason Code**
WB6-7, S4, A 072617	Acetone	0.0026	J	0.016	U	3
WB6-7, S4, B 072617	Acetone	0.0028	J	0.016	U	3

mg/kg-milligrams per kilogram
J- result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value
* Validation qualifiers are defined in Attachment 1 at the end of this report
**Reason codes are defined in Attachment 2 at the end of this report

1.8 Field Duplicate

A field duplicate was not collected with the sample set.

1.9 Sensitivity

The samples were reported to the MDLs. No elevated non-detect results were reported.

The MDLs were at or below the NYSDEC DER10 App 5 Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010.

1.10 Electronic Data Deliverable (EDD) Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The sample date and time were included in the sample IDs in the EDD and not included in the sample IDs in the laboratory report. No other discrepancies were identified between the level II report and the EDD.

2.0 SEMIVOLATILE ORGANIC COMPOUNDS

The samples were analyzed for SVOCs by EPA methods 3541/8270D.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Surrogates
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

2.1 Overall Assessment

The SVOC data reported in this package are considered usable for meeting project objectives. The analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this package is 100%.

2.2 Holding Times

The holding times for SVOC analysis of solid samples are 14 days from sample collection to extraction and 40 days from extraction to analysis. The holding times were met for the sample analyses.

2.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 218664). SVOCs were not detected in the method blank above the MDLs.

2.4 Matrix Spike/Matrix Spike Duplicate

MS/MSD pairs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). A sample set specific MS/MSD pair was reported, using sample WB6-7, S3, C 072617. The recovery and RPD results were within the laboratory specified acceptance criteria.

2.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery results were within the laboratory specified acceptance criteria.

2.6 Surrogates

Acceptable surrogate recoveries were reported.

2.7 Field Duplicate

A field duplicate was not collected with the sample set.

2.8 Sensitivity

The samples were reported to the MDLs. No elevated non-detect results were reported.

The MDLs were at or below the NYSDEC DER10 App 5 Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010. It was noted that no NYSDEC DER10 App 5 Constituent Levels for Imported Fill were listed for the following compounds:

2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dinitrotoluene
2-Methylphenol
Dibenzofuran
Hexachlorobenzene

Hexachlorobutadiene
Hexachloroethane
Methylphenol, 3 & 4
Nitrobenzene
Pyridine

2.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The sample date and time were included in the sample IDs in the EDD and not included in the sample IDs in the laboratory report. No other discrepancies were identified between the level II report and the EDD.

3.0 POLYCHLORINATED BIPHENYLS

The samples were analyzed for PCBs by EPA Methods 3541/8082A.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

⊗ Overall Assessment
✓ Holding Times
✓ Method Blank
✓ Matrix Spike/Matrix Spike Duplicate
✓ Laboratory Control Sample
✓ Surrogates
✓ Field Duplicate
✓ Sensitivity
✓ Electronic Data Deliverable Review

3.1 Overall Assessment

The PCB data reported in this data set are considered usable for meeting project objectives. The analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this data set is 100%.

The samples contain mixtures of PCBs 1248, 1254 and 1260. There are peaks in 1248 and 1254 that are in both of these PCBs and peaks in 1254 and 1260 that are in both of these PCBs; therefore, there is contribution between PCBs when more than one PCB is detected in a sample. Therefore, based on professional and technical judgment, the concentrations of PCBs 1248, 1254 and 1260 in these samples were J qualified as estimated.

Sample ID	Compound	Laboratory Concentration (mg/kg)	Laboratory Flag	Validation Concentration (mg/kg)	Validation Qualifier	Reason Code
WB6-7, S3, C 072617	PCB-1248	0.40	NA	0.40	J	13
WB6-7, S3, C 072617	PCB-1254	0.19	NA	0.19	J	13
WB6-7, S3, C 072617	PCB-1260	0.041	NA	0.041	J	13
WB6-7, S4, C 072617	PCB-1248	0.76	NA	0.76	J	13
WB6-7, S4, C 072617	PCB-1254	0.34	NA	0.34	J	13
WB6-7, S4, C 072617	PCB-1260	0.068	NA	0.068	J	13

mg/kg-milligrams per kilograms
NA-not applicable

3.2 Holding Times

No holding times are listed in the referenced method for PCB analyses. The samples were extracted and analyzed within 8 days of collection. Therefore, no qualifications were applied to the data, based on professional and technical judgment.

3.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 218666). PCBs were not detected in the method blank above the MDLs.

3.4 Matrix Spike/Matrix Spike Duplicate

An MS/MSD pair was not reported.

3.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery results were within the laboratory specified acceptance criteria.

3.6 Surrogates

Acceptable surrogate recoveries were reported for the sample analyses.

3.7 Field Duplicate

Field duplicates were not collected with the sample set.

3.8 Sensitivity

The samples were reported to the MDLs. No elevated non-detect results were reported.

It was noted that no NYSDEC constituent levels were listed for PCBs.

3.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The sample date and time were included in the sample IDs in the EDD and not included in the sample IDs in the laboratory report. No other discrepancies were identified between the level II report and the EDD.

4.0 METALS

The samples were analyzed for metals by EPA methods 3050B/6010C (Mercury evaluated separately in Section 5.0, below).

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

⊗ Overall Assessment
✓ Holding Times
✓ Method Blank

- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

4.1 Overall Assessment

The metals data reported in this data set are considered usable for meeting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this data set is 100%.

The low level CCV percent recovery for selenium in batch 218674 was high, outside laboratory specified acceptance criteria. Therefore, the concentration of selenium in the associated sample was J qualified as estimated.

Sample	Compound	Laboratory Result (mg/kg)	Laboratory Flag	Validation Result (mg/kg)	Validation Qualifier	Reason Code
WB6-7, S4, C 072617	Selenium	0.88	J^	0.88	J	9

mg/kg-milligrams per kilograms
J-result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value
^-laboratory flag indicating that the instrument related QC is outside acceptance limits

4.2 Holding Times

The holding time for the metals analysis of a solid sample is 180 days from sample collection to analysis. The holding times were met for the sample analyses.

4.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 218412). The metals were not detected in the method blank above the MDLs.

4.4 Matrix Spike/Matrix Spike Duplicate

An MS/MSD pair was not reported.

4.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery results were within the laboratory specified acceptance criteria.

4.6 Laboratory Duplicate

A laboratory duplicate was not reported.

4.7 Field Duplicate

A field duplicate was not collected with the sample set.

4.8 Sensitivity

The samples were reported to the MDLs. No elevated non-detect results were reported.

The MDLs were at or below the NYSDEC DER10 App 5 Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010. It was noted that no NYSDEC constituent level was listed for chromium.

4.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The sample date and time were included in the sample IDs in the EDD and not included in the sample IDs in the laboratory report. No other discrepancies were identified between the level II report and the EDD.

5.0 MERCURY

The samples were analyzed for mercury by EPA method 7471B.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

✓ Overall Assessment
✓ Holding Times

✓ Method Blank
⊗ Matrix Spike/Matrix Spike Duplicate
✓ Laboratory Control Sample
✓ Laboratory Duplicate
✓ Field Duplicate
✓ Sensitivity
✓ Electronic Data Deliverable Review

5.1 Overall Assessment

The mercury data reported in this data set are considered usable for meeting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this data set is 100%.

5.2 Holding Times

The holding time for the mercury analysis of solid samples is 28 days from sample collection to analysis. The holding times were met for the sample analyses.

5.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 218386). Mercury was not detected in the method blank above the MDL.

5.4 Matrix Spike/Matrix Spike Duplicate

MS/MSD pairs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). A sample set specific MS/MSD pair was reported, using sample WB6-7, S3, C 072617. The recovery and RPD results were within the laboratory specified acceptance criteria, with the following exception.

The MS recovery of mercury was high, outside the laboratory specified acceptance criteria. Therefore, the concentration of mercury in sample WB6-7, S3, C 072617 was J qualified as estimated.

Sample ID	Compound	Laboratory Concentration (mg/kg)	Laboratory Flag	Validation Concentration (mg/kg)	Validation Qualifier	Reason Code
WB6-7, S3, C 072617	Mercury	0.035	J, F1	0.035	J	4

mg/kg-milligrams per kilogram
J- result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value
F1-laboratory flag indicating the MS and/or MSD recovery is outside acceptance limits

5.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery results were within the laboratory specified acceptance criteria.

5.6 Laboratory Duplicate

A laboratory duplicate was not reported.

5.7 Field Duplicate

A field duplicate was not collected with the sample set.

5.8 Sensitivity

The samples were reported to the MDL. No elevated non-detect results were reported.

The MDL was at or below the NYSDEC DER10 App 5 Constituent Level for Imported Fill or Soil Restricted Residential Use May 2010.

5.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The sample date and time were included in the sample IDs in the EDD and not included in the sample IDs in the laboratory report. No other discrepancies were identified between the level II report and the EDD.

6.0 TOTAL CYANIDE

The samples were analyzed for total cyanide by EPA Methods 9010C/9014.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

6.1 Overall Assessment

The total cyanide data reported in this data set are considered usable for meeting project objectives. The analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this data set is 100%.

6.2 Holding Times

The holding time for the total cyanide analysis of solid samples is 14 days from sample collection to analysis. The holding times were met for the sample analyses.

6.3 Method Blanks

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 218907). Cyanide was not detected in the method blank above the MDL.

6.4 Matrix Spike/Matrix Spike Duplicate

MS/MSD pairs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). A sample set specific MS/MSD pair was reported, using sample WB6-7, S3, C 072617. The recovery and RPD results were within the laboratory specified acceptance criteria.

6.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Three LCSs were reported. The recovery results were within the laboratory specified acceptance criteria.

6.6 Laboratory Duplicate

Laboratory duplicates were not reported.

6.7 Field Duplicate

A field duplicate was not collected with the sample set.

6.8 Sensitivity

The samples were reported to the MDL. No elevated non-detect results were reported.

The MDL was at or below the NYSDEC DER10 App 5 Constituent Level for Imported Fill or Soil Restricted Residential Use May 2010.

6.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The sample date and time were included in the sample IDs in the EDD and not included in the sample IDs in the laboratory report. No other discrepancies were identified between the level II report and the EDD.

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* * * * *

ATTACHMENT 1
DATA VALIDATION QUALIFIER DEFINITIONS AND INTERPRETATION KEY
Assigned by Geosyntec's Data Validation Team

DATA QUALIFIER DEFINITIONS

U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

J+ The analyte was positively identified; however, the associated numerical value is likely to be higher that the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.

J- The analyte was positively identified; however, the associated numerical value is likely to be lower that the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ATTACHMENT 2
DATA VALIDATION REASON CODES
Assigned by Geosyntec's Data Validation Team

Valid Value	Description
1	Preservation requirement not met
2	Analysis holding time exceeded
3	Blank contamination (i.e., method, trip, equipment, etc.)
4	Matrix spike/matrix spike duplicate recovery or RPD outside limits
5	LCS recovery outside limits
6	Surrogate recovery outside limits
7	Field Duplicate RPD exceeded
8	Serial dilution percent difference exceeded
9	Calibration criteria not met
10	Linear range exceeded
11	Internal standard criteria not met
12	Lab duplicates RPD exceeded
13	Other

RPD-relative percent difference

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Memorandum

Date:	16 August 2017
To:	Aron Krasnopler
From:	Chris Pracheil
CC:	J. Caprio
Subject:	**Stage 2A Data Validation - Level IV Data Deliverable, TestAmerica Work Order Numbers 180-68038-1**

SITE: Former Sperry Remington Site-North

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of nine solid samples and one field duplicate collected July 10, 2017, as part of the Former Sperry Remington Site-North sampling event. The analyses were performed at TestAmerica Laboratories, Inc., Pittsburgh, Pennsylvania. The samples were analyzed for the following tests:

- Polychlorinated Biphenyls (PCBs) by EPA Methods 3541/8082A
- Standard Method 2540G - Percent Moisture/Solids

EXECUTIVE SUMMARY

The samples were handled, prepared, and measured in the same manner under similar prescribed conditions.

Overall, based on this Stage 2A data validation covering the quality control (QC) parameters listed below, the data as qualified are usable for meeting project objectives. Qualified data should be used within the limitations of the qualification.

The organic data were reviewed based on the Quality Assurance Project Plan (QAPP) for Former Sperry Remington Facility Industrial Outfall Site, Elmira, New York, NYSDEC Site I.D. # 808043, NY09-2480-04, July 7, 2010, Revised November 11, 2010, USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review, August 2014 (EPA 540-R-014-002), as well as by the pertinent methods referenced by the data package and professional and technical judgment.

The following samples were analyzed and validated at Stage 2A level in the data sets:

Laboratory ID	Client ID
180-68038-1	SSHS-B629A-SUB-6-8
180-68038-2	SSHS-B629A-SUB-8-10
180-68038-3	SSHS-B455A-SUB-8-10
180-68038-4	SSHS-B336A-SUB-2-4
180-68038-5	SSHS-B284A-SUB-6-8

Laboratory ID	Client ID
180-68038-6	SSHS-B284A-SUB-4-6
180-68038-7	SSHS-B671A-SUB-10-12
180-68038-8	SSHS-B712A-SUB-10-12
180-68038-9	SSHS-B686A-SUB-10-12
180-68038-10	PS-FD-1

The samples were received at the laboratory at 1.9ºC, 2.0ºC and 2.3ºC, within the QAPP criteria of <6ºC. No sample preservation issues were noted by the laboratory.

No collection times were listed on the chain of custody (COC) for the field duplicate sample; the laboratory assigned a collection time of 00:00.

There was rush sticker on the COC, obliterating part of the analysis request and additional comments sections of the COC.

It was noted that the sample IDs in the electronic data deliverable (EDD) included the date and time of laboratory receipt in the prefix; this prefix was not listed on the COC.

The solids data, used to report the samples on a dry weight bases, were not validated.

1.0 POLYCHLORINATED BIPHENYLS

The samples were analyzed for PCBs per EPA Methods EPA Methods 3541/8082A.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

⊗ Overall Assessment
✓ Holding Time
✓ Method Blank
✓ Matrix Spike/Matrix Spike Duplicate
✓ Laboratory Control Sample
✓ Surrogates
✓ Field Duplicate
✓ Sensitivity
⊗ Electronic Data Deliverable Review

1.1 Overall Assessment

The PCB (Aroclor) data reported in this package are considered usable for meeting project objectives. The results are considered valid; the analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

The samples contain mixtures of PCBs 1248 and 1254, PCBs 1254 and 1260 and PCBs 1248, 1254 and 1260. There are peaks in 1248 and 1254 that are in both of these PCBs and peaks in 1254 and 1260 that are in both of these PCBs; therefore, there is contribution between PCBs when more than one PCB is detected in a sample. Based on professional and technical judgment, the concentrations of PCBs 1248 and 1254 or PCBs 1248, 1254 and 1260 in these samples were J qualified as estimated.

Additionally, the concentration PCB 1260 in sample SSHS-B712A-SUB-10-12 was flagged with p, indicating that the relative percent difference (RPD) between the primary and confirmation gas chromatography (GC) columns is >40%; the lower value was reported. Therefore, based on professional and technical judgment, the concentration of PCB 1260 in sample SSHS-B712A-SUB-10-12 was J qualified as estimated.

Sample ID	Compound	Laboratory Concentration (µg/kg)	Laboratory Flag	Validation Concentration (µg/kg)	Validation Qualifier*	Reason Code**
SSHS-B284A-SUB-4-6	PCB-1248	2600	NA	2600	J	13
SSHS-B284A-SUB-4-6	PCB-1254	3000	NA	3000	J	13
SSHS-B284A-SUB-4-6	PCB-1260	720	NA	720	J	13
SSHS-B336A-SUB-2-4	PCB-1248	8900	NA	8900	J	13
SSHS-B336A-SUB-2-4	PCB-1254	4300	NA	4300	J	13
SSHS-B336A-SUB-2-4	PCB-1260	490	NA	490	J	13
SSHS-B455A-SUB-8-10	PCB-1248	87	NA	87	J	13
SSHS-B455A-SUB-8-10	PCB-1254	51	NA	51	J	13
SSHS-B671A-SUB-10-12	PCB-1254	170	NA	170	J	13
SSHS-B671A-SUB-10-12	PCB-1260	110	NA	110	J	13
SSHS-B686A-SUB-10-12	PCB-1248	3500	NA	3500	J	13
SSHS-B686A-SUB-10-12	PCB-1254	1300	NA	1300	J	13
SSHS-B686A-SUB-10-12	PCB-1260	110	NA	110	J	13
SSHS-B712A-SUB-10-12	PCB-1254	1200	NA	1200	J	13

Sample ID	Compound	Laboratory Concentration (µg/kg)	Laboratory Flag	Validation Concentration (µg/kg)	Validation Qualifier*	Reason Code**
SSHS-B712A-SUB-10-12	PCB-1260	350	p	350	J	13

µg/kg-microgram per kilogram
NA-not applicable
p-laboratory flag indicating the %RPD between the primary and confirmation column/detector is >40%; the lower value was reported
* Validation qualifiers are defined in Attachment 1 at the end of this report
**Reason codes are defined in Attachment 2 at the end of this report

1.2 Holding Times

The holding times for the PCB analysis of solids are 14 days from sample collection to extraction and 40 days from extraction to analysis. The holding times were met for the sample analyses.

1.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported with the data (batch 216674). PCBs were not detected in the method blank above the method detection limits (MDLs).

1.4 Matrix Spike/Matrix Spike Duplicate

MS/MSD pairs were analyzed at the proper frequency for the number and types of samples analyzed (one pair per batch of 20 samples). One sample set specific MS/MSD pair was reported, using sample SSHS-B629A-SUB-6-8. The recovery and RPD results were within the laboratory specified acceptance criteria.

1.5 Laboratory Control Sample (LCS)

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery results were within the laboratory specified acceptance criteria.

1.6 Surrogate

The surrogate recoveries were within the laboratory specified acceptance criteria.

1.7 Field Duplicate

One field duplicate sample was collected with the sample set, PS-FD-1. Acceptable precision [RPD <40% for results greater than five times the reporting limit (RL) and ±2 times the RL for results less than five times the RL] was demonstrated between the field duplicate and the original sample, SSHS-B284A-SUB-6-8.

1.8 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were reported for sample SSHS-B336A-SUB-2-4 due to the dilution analyzed.

1.9 Electronic Data Deliverable (EDD) Review

Results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20%. It was noted that the sample IDs in the EDD included the date and time of laboratory receipt in the prefix; this prefix was not listed on the COC. No other discrepancies were identified between the level II report and the EDD.

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* * * * *

ATTACHMENT 1
DATA VALIDATION QUALIFIER DEFINITIONS AND INTERPRETATION KEY
Assigned by Geosyntec's Data Validation Team

DATA QUALIFIER DEFINITIONS

U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

J+ The analyte was positively identified; however, the associated numerical value is likely to be higher that the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.

J- The analyte was positively identified; however, the associated numerical value is likely to be lower that the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ATTACHMENT 2
DATA VALIDATION REASON CODES
Assigned by Geosyntec's Data Validation Team

Valid Value	Description
1	Preservation requirement not met
2	Analysis holding time exceeded
3	Blank contamination (i.e., method, trip, equipment, etc.)
4	Matrix spike/matrix spike duplicate recovery or RPD outside limits
5	LCS recovery outside limits
6	Surrogate recovery outside limits
7	Field Duplicate RPD exceeded
8	Serial dilution percent difference exceeded
9	Calibration criteria not met
10	Linear range exceeded
11	Internal standard criteria not met
12	Lab duplicates RPD exceeded
13	Other

RPD-relative percent difference

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Memorandum

Date:	16 August 2017
To:	Aron Krasnopler
From:	Chris Pracheil
CC:	J. Caprio
Subject:	**Stage 2A Data Validation - Level IV Data Deliverable, TestAmerica Work Order Numbers 180-68039-1**

SITE: Former Sperry Remington Site-North

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of one solid sample, collected July 10, 2017, as part of the Former Sperry Remington Site-North sampling event. The analyses were performed at TestAmerica Laboratories, Inc., Pittsburgh, Pennsylvania. The sample was analyzed for the following tests:

- Polychlorinated Biphenyls (PCBs) by EPA Methods 3541/8082A
- Standard Method 2540G - Percent Moisture/Solids

EXECUTIVE SUMMARY

The sample was handled, prepared, and measured in the same manner under similar prescribed conditions.

Overall, based on this Stage 2A data validation covering the quality control (QC) parameters listed below, the data as qualified are usable for meeting project objectives. Qualified data should be used within the limitations of the qualification.

The organic data were reviewed based on the Quality Assurance Project Plan (QAPP) for Former Sperry Remington Facility Industrial Outfall Site, Elmira, New York, NYSDEC Site I.D. # 808043, NY09-2480-04, July 7, 2010, Revised November 11, 2010, USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review, August 2014 (EPA 540-R-014-002), as well as by the pertinent methods referenced by the data package and professional and technical judgment.

The following sample was analyzed and validated at Stage 2A level in the data sets:

Laboratory ID	Client ID
180-68039-1	NORTH EXCAVATION SIDEWALL S1

The sample was received at the laboratory at 1.9ºC, 2.0ºC and 2.3ºC, within the QAPP criteria of <6ºC. No sample preservation issues were noted by the laboratory.

It was noted that the sample IDs in the electronic data deliverable (EDD) included the date and time of laboratory receipt in the prefix; this prefix was not listed on the chain of custody (COC).

The sample specific notes section of the COC indicated that the three samples listed on the COC were on hold. However, the narrative indicated that the client cancelled the analyses of two samples, EXCAVATION BOTTOM S2 and EXCAVATION BOTTOM S3 on 7/11/17.

The solids data, used to report the sample on a dry weight bases, were not validated.

1.0 POLYCHLORINATED BIPHENYLS

The sample was analyzed for PCBs per EPA Methods EPA Methods 3541/8082A.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

⊗ Overall Assessment
✓ Holding Time
✓ Method Blank
✓ Matrix Spike/Matrix Spike Duplicate
✓ Laboratory Control Sample
✓ Surrogates
✓ Field Duplicate
✓ Sensitivity
⊗ Electronic Data Deliverable Review

1.1 Overall Assessment

The PCB (Aroclor) data reported in this package are considered usable for meeting project objectives. The results are considered valid; the analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to

the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

The sample contains mixtures of PCBs 1248, 1254 and 1260. There are peaks in 1248 and 1254 that are in both of these PCBs and peaks in 1254 and 1260 that are in both of these PCBs; therefore, there is contribution between PCBs when more than one PCB is detected in a sample. Based on professional and technical judgment, the concentrations of PCBs 1248 and 1254 or PCBs 1248, 1254 and 1260 in the sample was J qualified as estimated.

Sample ID	Compound	Laboratory Concentration (µg/kg)	Laboratory Flag	Validation Concentration (µg/kg)	Validation Qualifier*	Reason Code**
NORTH EXCAVATION SIDEWALL S1	PCB-1248	3800	NA	3800	J	13
NORTH EXCAVATION SIDEWALL S1	PCB-1254	1900	NA	1900	J	13
NORTH EXCAVATION SIDEWALL S1	PCB-1260	540	NA	540	J	13

µg/kg-microgram per kilogram
NA-not applicable
* Validation qualifiers are defined in Attachment 1 at the end of this report
**Reason codes are defined in Attachment 2 at the end of this report

1.2 Holding Times

The holding times for the PCB analysis of solids are 14 days from sample collection to extraction and 40 days from extraction to analysis. The holding times were met for the sample analyses.

1.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported with the data (batch 216674). PCBs were not detected in the method blank above the method detection limits (MDLs).

1.4 Matrix Spike/Matrix Spike Duplicate (MS/MSD)

An MS/MSD pair was not reported.

1.5 Laboratory Control Sample (LCS)

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery results were within the laboratory specified acceptance criteria.

1.6 Surrogate

The surrogate recoveries were within the laboratory specified acceptance criteria.

1.7 Field Duplicate

A field duplicate sample was not reported with the sample set.

1.8 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were not reported.

1.9 Electronic Data Deliverable (EDD) Review

Results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20%. It was noted that the sample ID in the report and on the COC is NORTH EXCAVATION SIDEWALL S1; the ID is listed as NORTH EXCAVATION SIDEWALL S in the EDD. In addition, the ID in the EDD included the date and time of laboratory receipt in the prefix; this prefix was not listed on the COC. No other discrepancies were identified between the level II report and the EDD.

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* * * * *

ATTACHMENT 1
DATA VALIDATION QUALIFIER DEFINITIONS AND INTERPRETATION KEY
Assigned by Geosyntec's Data Validation Team

DATA QUALIFIER DEFINITIONS

U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

J+ The analyte was positively identified; however, the associated numerical value is likely to be higher that the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.

J- The analyte was positively identified; however, the associated numerical value is likely to be lower that the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ATTACHMENT 2
DATA VALIDATION REASON CODES
Assigned by Geosyntec's Data Validation Team

Valid Value	Description
1	Preservation requirement not met
2	Analysis holding time exceeded
3	Blank contamination (i.e., method, trip, equipment, etc.)
4	Matrix spike/matrix spike duplicate recovery or RPD outside limits
5	LCS recovery outside limits
6	Surrogate recovery outside limits
7	Field Duplicate RPD exceeded
8	Serial dilution percent difference exceeded
9	Calibration criteria not met
10	Linear range exceeded
11	Internal standard criteria not met
12	Lab duplicates RPD exceeded
13	Other

RPD-relative percent difference

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Memorandum

Date:	16 August 2017
To:	Aron Krasnopler
From:	Chris Pracheil
CC:	J. Caprio
Subject:	**Stage 2A Data Validation - Level IV Data Deliverable, TestAmerica Work Order Numbers 180-67517-1 & 180-67517-2**

SITE: Former Sperry Remington Site-North

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of one solid sample, including one sample for matrix spike/matrix spike duplicate (MS/MSD) analyses, one equipment blank and one field duplicate collected June 19, 2017, as part of the Former Sperry Remington Site-North sampling event. The analyses were performed at TestAmerica Laboratories, Inc., Pittsburgh, Pennsylvania. The samples were analyzed for the following tests:

- Polychlorinated Biphenyls (PCBs) by EPA Methods 3541/8082A
- Standard Method 2540G - Percent Moisture/Solids

EXECUTIVE SUMMARY

The samples were handled, prepared, and measured in the same manner under similar prescribed conditions.

Overall, based on this Stage 2A data validation covering the quality control (QC) parameters listed below, the data are usable for meeting project objectives.

The organic data were reviewed based on the Quality Assurance Project Plan (QAPP) for Former Sperry Remington Facility Industrial Outfall Site, Elmira, New York, NYSDEC Site I.D. # 808043, NY09-2480-04, July 7, 2010, Revised November 11, 2010, USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review, August 2014 (EPA 540-R-014-002), as well as by the pertinent methods referenced by the data package and professional and technical judgment.

The following samples were analyzed and validated at Stage 2A level in the data sets:

Laboratory ID	Client ID
180-67517-1	SSHS-B822-SUB-0-2
180-67517-4	EB-1

Laboratory ID	Client ID
180-67517-5	DUP-1

The samples were received at the laboratory at 3.8°C, within the QAPP criteria of <6°C. No sample preservation issues were noted by the laboratory.

No collection times were listed on the chain of custody (COC) for the field duplicate sample; the laboratory assigned a collection time of 00:00.

Incorrect error corrections were observed on the COC, instead of the proper procedure of a single strike through, correction, and initials and date of person making the corrections.

It was noted that the sample IDs in the electronic data deliverable (EDD) included the date and time of laboratory receipt in the prefix; this prefix was not listed on the COC.

The solids data, used to report the samples on a dry weight bases, were not validated.

1.0 POLYCHLORINATED BIPHENYLS

The samples were analyzed for PCBs per EPA Methods EPA Methods 3541/8082A.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

✓ Overall Assessment
✓ Holding Time
✓ Method Blank
✓ Matrix Spike/Matrix Spike Duplicate
✓ Laboratory Control Sample
✓ Surrogates
✓ Field Duplicate
✓ Equipment Blank
✓ Sensitivity
⊗ Electronic Data Deliverable Review

1.1 Overall Assessment

The PCB (Aroclor) data reported in this package are considered usable for meeting project objectives. The results are considered valid; the analytical completeness, defined as the ratio of the

number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

1.2 Holding Times

The holding times for the PCB analysis of solids are 14 days from sample collection to extraction and 40 days from extraction to analysis. The holding times were met for the sample analyses.

1.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two method blanks were reported with the data (batches 214819 and 214808). PCBs were not detected in the method blanks above the method detection limits (MDLs).

1.4 Matrix Spike/Matrix Spike Duplicate

MS/MSD pairs were analyzed at the proper frequency for the number and types of samples analyzed (one pair per batch of 20 samples). One sample set specific MS/MSD pair was reported, using sample SSHS-B822-SUB-0-2. The recovery and relative percent difference (RPD) results were within the laboratory specified acceptance criteria.

1.5 Laboratory Control Sample (LCS)

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS and one LCS/LCS duplicate (LCSD) pair were reported. The recovery and RPD results were within the laboratory specified acceptance criteria.

1.6 Surrogate

The surrogate recoveries were within the laboratory specified acceptance criteria.

1.7 Field Duplicate

One field duplicate sample was collected with the sample set DUP-1. Acceptable precision [RPD <40% for results greater than five times the reporting limit (RL) and ±2 times the RL for results less than five times the RL] was demonstrated between the field duplicate and the original sample, SSHS-B822-SUB-0-2.

1.8 Equipment Blanks

An equipment blank EB-1 was collected with the samples. PCBs were not detected in the equipment blank, with the following exception.

PCB 1254 was detected above the RL in the equipment blank. Since PCB 1254 was not detected in the associated samples, no qualifications were applied to the data.

1.9 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were not reported.

1.10 Electronic Data Deliverable (EDD) Review

Results and sample IDs in the EDD were reviewed against the information provided by the associated level IV report at a minimum of 20%. It was noted that the sample IDs in the EDDs included the date and time of laboratory receipt in the prefix; this prefix was not listed on the COC. No other discrepancies were identified between the level IV reports and the EDDs.

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* * * * *

ATTACHMENT 1
DATA VALIDATION QUALIFIER DEFINITIONS AND INTERPRETATION KEY
Assigned by Geosyntec's Data Validation Team

DATA QUALIFIER DEFINITIONS

U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

J+ The analyte was positively identified; however, the associated numerical value is likely to be higher that the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.

J- The analyte was positively identified; however, the associated numerical value is likely to be lower that the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ATTACHMENT 2
DATA VALIDATION REASON CODES
Assigned by Geosyntec's Data Validation Team

Valid Value	Description
1	Preservation requirement not met
2	Analysis holding time exceeded
3	Blank contamination (i.e., method, trip, equipment, etc.)
4	Matrix spike/matrix spike duplicate recovery or RPD outside limits
5	LCS recovery outside limits
6	Surrogate recovery outside limits
7	Field Duplicate RPD exceeded
8	Serial dilution percent difference exceeded
9	Calibration criteria not met
10	Linear range exceeded
11	Internal standard criteria not met
12	Lab duplicates RPD exceeded
13	Other

RPD-relative percent difference

Geosyntec consultants

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Memorandum

Date:	16 August 2017
To:	Aron Krasnopoler
From:	Chris Pracheil
CC:	J. Caprio
Subject:	**Stage 2A Data Validation - Level II Data Deliverable, TestAmerica Job ID # 180-68814-2**

SITE: Former Sperry Remington Site-North IRM

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of six solid and one trip blank, collected August 01, 2017, as part of the Former Sperry Remington Site-North IRM project. The analyses were performed at TestAmerica Laboratories, Inc., Pittsburgh, Pennsylvania. The samples were analyzed for the following tests:

- Volatile Organic Compounds (VOCs) by EPA Methods 8260C and 5035/8260C
- Semivolatile Organic Compounds (SVOCs) by EPA Methods 3541/8270D
- Polychlorinated Biphenyls (PCBs) by EPA Methods 3541/8082A
- Metals by EPA Methods 3050B/6010C
- Mercury by EPA Method 7471B
- Total Cyanide by EPA Methods 9010C/9014
- Total Solids by Standard Method 2540G

EXECUTIVE SUMMARY

The samples were handled, prepared, and measured in the same manner under similar prescribed conditions.

Overall, based on this Stage 2A data validation covering the quality control (QC) parameters listed below, the data as qualified are usable for meeting project objectives. Qualified data should be used within the limitations of the qualification.

The data were validated based on the Quality Assurance Project Plan (QAPP) for Former Sperry Remington Facility Industrial Outfall Site, Elmira, New York, NYSDEC Site I.D. # 808043,

NY09-2480-04, July 7, 2010, Revised November 11, 2010, USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review, January 2017 (EPA 540-R-2017-002), USEPA Contract Laboratory Program National Functional Guidelines for Superfund Inorganic Methods Data Review, January 2017 (EPA 540-R-2017-001), the pertinent methods referenced by the laboratory report and professional and technical judgment.

The following samples were analyzed and validated at Stage 2A level in the data set:

Laboratory ID	Client ID
180-68814-11	WB2-3, S1, A 08.01.17
180-68814-12	WB2-3, S1, B 08.01.17
180-68814-13	WB2-3, S1, C 08.01.17
180-68814-14	WB2-3, S2, A 08.01.17

Laboratory ID	Client ID
180-68814-15	WB2-3, S2, B 08.01.17
180-68814-16	WB2-3, S2, C 08.01.17
180-68814-17	TRIP BLANK #1

The samples were received at the laboratory at 2.7ºC within the criteria of 0-6ºC. No sample preservation issues were noted by the laboratory.

The following sample receiving issues were noted:

- Incorrect error corrections were observed on the chain of custody (COC), instead of the proper procedure of a single strike through, correction, and initials and date of person making the corrections.

- There was rush sticker on the COC, obliterating part of the analysis request section of the COC.

- The sample collection time was not documented on the COC for Trip Blank #1. The laboratory assigned collection time of 00:00 to the trip blank.

- Samples WB4-5, S3, A 08.01.17; WB4-5, S3, C 08.01.17; WB4-5, S4, A 08.01.17; WB4-5, S4, C 08.01.17; W9, S5, A 08.01.17; W9, S5, C 08.01.17; WB5-6, S2, A 08.01.17; WB5-6, S2, C 08.01.17; WB5-6, S3, A 08.01.17 and WB5-6, S3, C 08.01.17 were listed on the COC and reported in laboratory report 180-68814-1.

The solids data, used to report the samples on a dry weight basis, were not validated.

1.0 VOLATILE ORGANIC COMPOUNDS

The samples were analyzed for VOCs by EPA methods 8260C and 5035/8260C.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Surrogates
- ✓ Trip Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

1.1 Overall Assessment

The VOC data reported in this package are considered usable for meeting project objectives. The analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this package is 100%.

The narrative indicated that the continuing calibration verification (CCV) percent difference (%D) for 2-butanone was high, outside method specified acceptance criteria in analytical batch 218968. The %D was 20.8%D with a low bias. Since the %D was within the validation guidance acceptance criteria of 40%D, no qualifications were applied to the data.

1.2 Holding Times

The holding times for the VOC analysis of a solid sample collected using a Terracore are 48 hours from collection to laboratory receipt and 14 days from sample collection to analysis. The holding time for the VOC analysis of a preserved water sample is 14 days from sample collection to analysis. The holding times were met for the sample analyses.

1.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two method blanks were reported (batches 218943 and 218980). VOCs were not detected in the method blanks above the method detection limits (MDLs).

1.4 Matrix Spike/Matrix Spike Duplicate (MS/MSD)

An MS/MSD pair was not reported.

1.5 Laboratory Control Sample (LCS)

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS and one LCS/LCS duplicate (LCSD) pair were reported. The recovery and relative percent difference (RPD) results were within the laboratory specified acceptance criteria.

1.6 Surrogates

Acceptable surrogate recoveries were reported.

1.7 Trip Blank

One trip blank, TRIP BLANK#1, accompanied the samples. VOCs were not detected in the trip blank above the MDLs, with the following exception.

Acetone was detected at an estimated concentration, greater than the MDL and less than the reporting limit (RL) in the trip blank. Since acetone was not detected in the associated samples, no qualifications were applied to the data.

1.8 Field Duplicate

A field duplicate was not collected with the sample set.

1.9 Sensitivity

The samples were reported to the MDLs. No elevated non-detect results were reported.

The MDLs were at or below the NYSDEC DER10 App 5 Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010.

1.10 Electronic Data Deliverable (EDD) Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The sample date and time were included in the sample IDs in the EDD and not included in the sample IDs in

the laboratory report. No other discrepancies were identified between the level II report and the EDD.

2.0 SEMIVOLATILE ORGANIC COMPOUNDS

The samples were analyzed for SVOCs by EPA methods 3541/8270D.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

✓ Overall Assessment
✓ Holding Times
✓ Method Blank
⊗ Matrix Spike/Matrix Spike Duplicate
✓ Laboratory Control Sample
✓ Surrogates
✓ Field Duplicate
✓ Sensitivity
✓ Electronic Data Deliverable Review

2.1 Overall Assessment

The SVOC data reported in this package are considered usable for meeting project objectives. The analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this package is 100%.

The narrative indicated that the CCV %Ds for 1,4-dioxane and pyridine in analytical batch 219126 and the CCV %Ds for 1,4-dioxane, hexachlorobutadiene and pyridine in analytical batch 219211 were high, outside method specified acceptance criteria, with high biases. Since these compounds were not detected in the associated samples, no qualifications were applied to the data.

2.2 Holding Times

The holding times for SVOC analysis of solid samples are 14 days from sample collection to extraction and 40 days from extraction to analysis. The holding times were met for the sample analyses.

2.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 219075). SVOCs were not detected in the method blank above the MDLs.

2.4 Matrix Spike/Matrix Spike Duplicate

MS/MSD pairs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). A sample set specific MS/MSD pair was reported, using sample WB2-3, S1, C 08.01.17. The recovery and RPD results were within the laboratory specified acceptance criteria with the following exceptions.

The MS recoveries and RPDs of anthracene, benzo[a]anthracene, benzo[a]pyrene, benzo[b]fluoranthene, benzo[g,h,i]perylene, chrysene, fluoranthene, indeno[1,2,3-cd]pyrene, phenanthrene and pyrene were high and the MS/MSD recoveries of pyridine were low, outside laboratory specified acceptance criteria. Additionally, the RPD of benzo[k]fluoranthene was high, outside laboratory specified acceptance criteria. Therefore, the concentrations of anthracene, benzo[a]anthracene, benzo[a]pyrene, benzo[b]fluoranthene, benzo[g,h,i]perylene, benzo[k]fluoranthene, chrysene, fluoranthene, indeno[1,2,3-cd]pyrene, phenanthrene and pyrene were J qualified as estimated and the non-detect result of pyridine was UJ qualified as estimated less than the MDL in sample WB2-3, S1, C 08.01.17.

Sample ID	Compound	Laboratory Concentration (mg/kg)	Laboratory Flag	Validation Concentration (mg/kg)	Validation Qualifier*	Reason Code**
WB2-3, S1, C 08.01.17	Anthracene	0.13	F2,F1	0.13	J	4
WB2-3, S1, C 08.01.17	Benzo[a]anthracene	0.38	F2,F1	0.38	J	4
WB2-3, S1, C 08.01.17	Benzo[a]pyrene	0.38	F2,F1	0.38	J	4
WB2-3, S1, C 08.01.17	Benzo[b]fluoranthene	0.52	F2,F1	0.52	J	4
WB2-3, S1, C 08.01.17	Benzo[g,h,i]perylene	0.34	F2,F1	0.34	J	4
WB2-3, S1, C 08.01.17	Benzo[k]fluoranthene	0.16	F2	0.16	J	4
WB2-3, S1, C 08.01.17	Chrysene	0.43	F2,F1	0.43	J	4
WB2-3, S1, C 08.01.17	Fluoranthene	0.63	F2,F1	0.63	J	4
WB2-3, S1, C 08.01.17	Indeno[1,2,3-cd]pyrene	0.31	F2,F1	0.31	J	4

Sample ID	Compound	Laboratory Concentration (mg/kg)	Laboratory Flag	Validation Concentration (mg/kg)	Validation Qualifier*	Reason Code**
WB2-3, S1, C 08.01.17	Phenanthrene	0.33	F2,F1	0.33	J	4
WB2-3, S1, C 08.01.17	Pyrene	0.57	F2,F1	0.57	J	4
WB2-3, S1, C 08.01.17	Pyridine	3.6	U,F1	3.6	UJ	4

mg/kg-milligrams per kilogram
U- laboratory flag indicating analyte was analyzed for but not detected above the MDL
F1-laboratory flag indicating the MS and/or MSD recovery is outside acceptance limits
F2- laboratory flag indicating the MS/MSD RPD exceeds control limits
* Validation qualifiers are defined in Attachment 1 at the end of this report
**Reason codes are defined in Attachment 2 at the end of this report

2.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery results were within the laboratory specified acceptance criteria.

2.6 Surrogates

Acceptable surrogate recoveries were reported.

2.7 Field Duplicate

A field duplicate was not collected with the sample set.

2.8 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were reported for sample WB2-3, S2, C 08.01.17 due to the dilution analyzed.

The MDLs were at or below the NYSDEC DER10 App 5 Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010. It was noted that no NYSDEC DER10 App 5 Constituent Levels for Imported Fill were listed for the following compounds:

2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dinitrotoluene
2-Methylphenol

Dibenzofuran
Hexachlorobenzene
Hexachlorobutadiene
Hexachloroethane

Methylphenol, 3 & 4	Pyridine
Nitrobenzene	

2.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The sample date and time were included in the sample IDs in the EDD and not included in the sample IDs in the laboratory report. No other discrepancies were identified between the level II report and the EDD.

3.0 POLYCHLORINATED BIPHENYLS

The samples were analyzed for PCBs by EPA Methods 3541/8082A.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

⊗ Overall Assessment
✓ Holding Times
✓ Method Blank
✓ Matrix Spike/Matrix Spike Duplicate
✓ Laboratory Control Sample
✓ Surrogates
✓ Field Duplicate
✓ Sensitivity
✓ Electronic Data Deliverable Review

3.1 Overall Assessment

The PCB data reported in this data set are considered usable for meeting project objectives. The analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this data set is 100%.

The narrative indicated that the CCV %D for PCB 1016 were high, outside method specified acceptance criteria in analytical batch 219079 on gas chromatography (GC) column RTX-CLP2. The associated sample results were reported from the other GC column, which had an acceptable CCV %D. Therefore, no qualifications were applied to the data.

The narrative also indicated that sample WB2-3, S1, C 08.01.17 exhibited a slight retention time shift for the internal standards, surrogates, and Aroclor peaks. As the patterns for the Aroclors were clearly present, no qualifications were applied to the data, based on technical and professional judgement.

The samples contain mixtures of PCBs 1248, 1254 and 1260. There are peaks in 1248 and 1254 that are in both of these PCBs and peaks in 1254 and 1260 that are in both of these PCBs; therefore, there is contribution between PCBs when more than one PCB is detected in a sample. Therefore, based on professional and technical judgment, the concentrations of PCBs 1248, 1254 and 1260 in these samples were J qualified as estimated.

Sample ID	Compound	Laboratory Concentration (mg/kg)	Laboratory Flag	Validation Concentration (mg/kg)	Validation Qualifier	Reason Code
WB2-3, S1, C 08.01.17	PCB-1248	2.3	*	2.3	J	13
WB2-3, S1, C 08.01.17	PCB-1254	1.4	*	1.4	J	13
WB2-3, S1, C 08.01.17	PCB-1260	0.20	*	0.20	J	13
WB2-3, S2, C 08.01.17	PCB-1248	2.3	NA	2.3	J	13
WB2-3, S2, C 08.01.17	PCB-1254	1.1	NA	1.1	J	13
WB2-3, S2, C 08.01.17	PCB-1260	0.32	NA	0.32	J	13

mg/kg-milligrams per kilograms
*-laboratory flag indicating the internal standard response or retention time is outside acceptable limits
NA-not applicable

3.2 Holding Times

No holding times are listed in the referenced method for PCB analyses. The samples were extracted and analyzed within 4 days of collection. Therefore, no qualifications were applied to the data, based on professional and technical judgment.

3.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 219077). PCBs were not detected in the method blank above the MDLs.

3.4 Matrix Spike/Matrix Spike Duplicate

An MS/MSD pair was not reported.

3.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS/LCSD pair was reported. The recovery and RPD results were within the laboratory specified acceptance criteria.

3.6 Surrogates

Acceptable surrogate recoveries were reported.

3.7 Field Duplicate

A field duplicate was not collected with the sample set.

3.8 Sensitivity

The samples were reported to the MDLs. No elevated non-detect results were reported.

It was noted that no NYSDEC constituent levels were listed for PCBs.

3.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The sample date and time were included in the sample IDs in the EDD and not included in the sample IDs in the laboratory report. No other discrepancies were identified between the level II report and the EDD.

4.0 METALS

The samples were analyzed for metals by EPA methods 3050B/6010C (Mercury evaluated separately in Section 5.0, below).

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank

- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

4.1 Overall Assessment

The metals data reported in this data set are considered usable for meeting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this data set is 100%.

The low level CCV percent recovery for selenium in analytical batch 218674 was high, outside laboratory specified acceptance criteria. Since selenium was not detected in the associated samples, no qualifications were applied to the data.

4.2 Holding Times

The holding time for the metals analysis of a solid sample is 180 days from sample collection to analysis. The holding times were met for the sample analyses.

4.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 218989). The metals were not detected in the method blank above the MDLs.

4.4 Matrix Spike/Matrix Spike Duplicate

An MS/MSD pair was not reported.

4.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery results were within the laboratory specified acceptance criteria.

4.6 Laboratory Duplicate

A laboratory duplicate was not reported.

4.7 Field Duplicate

A field duplicate was not collected with the sample set.

4.8 Sensitivity

The samples were reported to the MDLs. No elevated non-detect results were reported.

The MDLs were at or below the NYSDEC DER10 App 5 Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010. It was noted that no NYSDEC constituent level was listed for chromium.

4.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The sample date and time were included in the sample IDs in the EDD and not included in the sample IDs in the laboratory report. No other discrepancies were identified between the level II report and the EDD.

5.0 MERCURY

The samples were analyzed for mercury by EPA method 7471B.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

✓ Overall Assessment
✓ Holding Times
✓ Method Blank
⊗ Matrix Spike/Matrix Spike Duplicate
✓ Laboratory Control Sample
✓ Laboratory Duplicate
✓ Field Duplicate
✓ Sensitivity

✓ Electronic Data Deliverable Review

5.1 Overall Assessment

The mercury data reported in this data set are considered usable for meeting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this data set is 100%.

5.2 Holding Times

The holding time for the mercury analysis of solid samples is 28 days from sample collection to analysis. The holding times were met for the sample analyses.

5.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 219480). Mercury was not detected in the method blank above the MDL.

5.4 Matrix Spike/Matrix Spike Duplicate

MS/MSD pairs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). A sample set specific MS/MSD pair was reported, using sample WB2-3, S1, C 08.01.17. The recovery and RPD results were within laboratory specified acceptance criteria, with the following exception.

The MS recovery of mercury was high, outside the laboratory specified acceptance criteria. Therefore, the concentration of mercury in sample WB2-3, S1, C 08.01.17 was J+ qualified as estimated with a high bias.

Sample ID	Compound	Laboratory Concentration (mg/kg)	Laboratory Flag	Validation Concentration (mg/kg)	Validation Qualifier	Reason Code
WB2-3, S1, C 08.01.17	Mercury	0.055	F1	0.055	J+	4

mg/kg-milligrams per kilogram
F1-laboratory flag indicating the MS and/or MSD recovery is outside acceptance limits

5.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery result was within the laboratory specified acceptance criteria.

5.6 Laboratory Duplicate

A laboratory duplicate was not reported.

5.7 Field Duplicate

A field duplicate was not collected with the sample set.

5.8 Sensitivity

The samples were reported to the MDL. No elevated non-detect results were reported.

The MDL was at or below the NYSDEC DER10 App 5 Constituent Level for Imported Fill or Soil Restricted Residential Use May 2010.

5.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The sample date and time were included in the sample IDs in the EDD and not included in the sample IDs in the laboratory report. No other discrepancies were identified between the level II report and the EDD.

6.0 TOTAL CYANIDE

The samples were analyzed for total cyanide by EPA Methods 9010C/9014.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

6.1 Overall Assessment

The total cyanide data reported in this data set are considered usable for meeting project objectives. The analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this data set is 100%.

6.2 Holding Times

The holding time for the total cyanide analysis of solid samples is 14 days from sample collection to analysis. The holding times were met for the sample analyses.

6.3 Method Blanks

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 219313). Cyanide was not detected in the method blank above the MDL.

6.4 Matrix Spike/Matrix Spike Duplicate

MS/MSD pairs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). A sample set specific MS/MSD pair was reported, using sample WB2-3, S1, C 08.01.17. The recovery and RPD results were within the laboratory specified acceptance criteria.

6.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Three LCSs were reported. The recovery results were within the laboratory specified acceptance criteria.

6.6 Laboratory Duplicate

Laboratory duplicates were not reported.

6.7 Field Duplicate

A field duplicate was collected but not analyzed for cyanide.

6.8 Sensitivity

The samples were reported to the MDL. No elevated non-detect results were reported.

The MDL was at or below the NYSDEC DER10 App 5 Constituent Level for Imported Fill or Soil Restricted Residential Use May 2010.

6.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The sample date and time were included in the sample IDs in the EDD and not included in the sample IDs in the laboratory report. No other discrepancies were identified between the level II report and the EDD.

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ATTACHMENT 1
DATA VALIDATION QUALIFIER DEFINITIONS AND INTERPRETATION KEY
Assigned by Geosyntec's Data Validation Team

DATA QUALIFIER DEFINITIONS

U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

J+ The analyte was positively identified; however, the associated numerical value is likely to be higher that the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.

J- The analyte was positively identified; however, the associated numerical value is likely to be lower that the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ATTACHMENT 2
DATA VALIDATION REASON CODES
Assigned by Geosyntec's Data Validation Team

Valid Value	Description
1	Preservation requirement not met
2	Analysis holding time exceeded
3	Blank contamination (i.e., method, trip, equipment, etc.)
4	Matrix spike/matrix spike duplicate recovery or RPD outside limits
5	LCS recovery outside limits
6	Surrogate recovery outside limits
7	Field Duplicate RPD exceeded
8	Serial dilution percent difference exceeded
9	Calibration criteria not met
10	Linear range exceeded
11	Internal standard criteria not met
12	Lab duplicates RPD exceeded
13	Other

RPD-relative percent difference

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Memorandum

Date:	15 August 2017
To:	Aron Krasnopoler
From:	Chris Pracheil
CC:	J. Caprio
Subject:	**Stage 2A Data Validation - Level II Data Deliverable, TestAmerica Job ID # 180-68716-1**

SITE: Former Sperry Remington Site-North IRM

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of nine solid samples, two field duplicates and one trip blank, collected July 28, 2017, as part of the Former Sperry Remington Site-North IRM project. The analyses were performed at TestAmerica Laboratories, Inc., Pittsburgh, Pennsylvania. The samples were analyzed for the following tests:

- Volatile Organic Compounds (VOCs) by EPA Methods 8260C and 5035/8260C
- Semivolatile Organic Compounds (SVOCs) by EPA Methods 3541/8270D
- Polychlorinated Biphenyls (PCBs) by EPA Methods 3541/8082A
- Metals by EPA Methods 3050B/6010C
- Mercury by EPA Method 7471B
- Total Cyanide by EPA Method 9010C/9014
- Total Solids by Standard Method 2540G

EXECUTIVE SUMMARY

The samples were handled, prepared, and measured in the same manner under similar prescribed conditions.

Overall, based on this Stage 2A data validation covering the quality control (QC) parameters listed below, the data as qualified are usable for meeting project objectives. Qualified data should be used within the limitations of the qualification.

The data were validated based on the Quality Assurance Project Plan (QAPP) for Former Sperry Remington Facility Industrial Outfall Site, Elmira, New York, NYSDEC Site I.D. # 808043,

NY09-2480-04, July 7, 2010, Revised November 11, 2010, USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review, January 2017 (EPA 540-R-2017-002), USEPA Contract Laboratory Program National Functional Guidelines for Superfund Inorganic Methods Data Review, January 2017 (EPA 540-R-2017-001), the pertinent methods referenced by the laboratory report and professional and technical judgment.

The following samples were analyzed and validated at Stage 2A level in the data set:

Laboratory ID	Client ID
180-68716-1	WB3-4, S1, A 072817
180-68716-2	WB3-4, S1, B 072817
180-68716-3	WB3-4, S1, C 072817
180-68716-4	WB3-4, S2, A 072817
180-68716-5	WB3-4, S2, B 072817
180-68716-6	WB3-4, S2, C 072817

Laboratory ID	Client ID
180-68716-7	WB3-4, S3, A 072817
180-68716-8	WB3-4, S3, B 072817
180-68716-9	WB3-4, S3, C 072817
180-68716-10	DUPE 19
180-68716-11	DUPE 18
180-68716-12	TRIP BLANK #1

The samples were received at the laboratory at 0.6^{o}C within the criteria of 0-6°C. No sample preservation issues were noted by the laboratory.

The following sample receiving issues were noted:

- The VOC sample vials for sample TRIP BLANK#1 were received with air bubbles of approximately 6mm in diameter.
- Incorrect error corrections were observed on the chain of custody (COC), instead of the proper procedure of a single strike through, correctio and initials and date of person making the corrections.
- There was rush sticker on the COC, obliterating part of the analysis request section of the COC.
- The sample collection times were not documented on the COC for field duplicate samples DUP 18 and DUP 19 and the sample collection date and time were not documented for Trip Blank #1. The laboratory assigned collection times of 00:00 to the field duplicates and sample date and time of collection of 7/28/17, 00:00 to the trip blank.

The solids data, used to report the samples on a dry weight basis, were not validated.

1.0 VOLATILE ORGANIC COMPOUNDS

The samples were analyzed for VOCs by EPA methods 8260C and 5035/8260C.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Surrogates
- ✓ Trip Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

1.1 Overall Assessment

The VOC data reported in this package are considered usable for meeting project objectives. The analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this package is 100%.

The narrative indicated that the continuing calibration verification (CCV) percent differences (%Ds) for vinyl chloride were high, outside method specified acceptance criteria in analytical batches 218535 and 218552. The %Ds were 20.5%D, with a low bias and 21.8%D, with a high bias, respectively; the method specified acceptance criteria is 20%D. Since the %Ds were within the validation guidance of 25%D, no qualifications were applied to the data.

The narrative indicated that the CCV %Ds for 1,1,1-trichloroethane, 1,2-dichloroethane, and n-butylbenzene were high, outside method specified acceptance criteria, with high biases in analytical batch 218566. Since 1,1,1-trichloroethane, 1,2-dichloroethane, and n-butylbenzene were not detected in the associated samples, no qualifications were applied to the data.

The VOC sample vials for sample TRIP BLANK #1 were received at the laboratory with air bubbles of approximately 6mm in diameter. No qualifications were applied to the trip blank data, but the data user should note the discrepancy.

1.2 Holding Times

The holding times for the VOC analysis of a solid sample collected using a Terracore are 48 hours from collection to laboratory receipt and 14 days from sample collection to analysis. The holding time for the VOC analysis of a preserved water sample is 14 days from sample collection to analysis. The holding times were met for the sample analyses.

1.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Three method blanks were reported (batches 218540, 218552 and 218570). VOCs were not detected in the method blanks above the method detection limits (MDLs).

1.4 Matrix Spike/Matrix Spike Duplicate (MS/MSD)

MS/MSD pairs were not reported with the sample set.

1.5 Laboratory Control Sample (LCS)

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two LCSs and one LCS/LCS duplicate (LCSD) pair were reported. The recovery and relative percent difference (RPD) results were within the laboratory specified acceptance criteria, with the following exceptions.

The LCS recoveries of carbon tetrachloride and 1,1,1-trichloroethane in the LCS in batch 218535 and the LCS recovery of 1,2-dichloroethane in the LCS in batch 218566 were high, outside laboratory specified acceptance criteria. Since these compounds were not detected in the associated samples, no qualifications were applied to the data.

1.6 Surrogates

Acceptable surrogate recoveries were reported.

1.7 Trip Blank

One trip blank, TRIP BLANK#1, accompanied the samples. VOCs were not detected in the trip blank above the MDLs.

1.8 Field Duplicate

Two field duplicates were collected with the sample set. One field duplicate was analyzed for VOCs, DUPE 19. Acceptable precision [RPD <40% for results greater than five times the reporting limit (RL) and ±2 times the RL for results less than five times the RL] was demonstrated between the field duplicate and the original sample, WB3-4, S3, B 7282017.

1.9 Sensitivity

The samples were reported to the MDLs. No elevated non-detect results were reported.

The MDLs were at or below the NYSDEC DER10 App 5 Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010.

1.10 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The sample date and time were included in the sample IDs in the EDD and not included in the sample IDs in the laboratory report. No other discrepancies were identified between the level II report and the EDD.

2.0 SEMIVOLATILE ORGANIC COMPOUNDS

The samples were analyzed for SVOCs by EPA methods 3541/8270D.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

✓ Overall Assessment
✓ Holding Times
✓ Method Blank
⊗ Matrix Spike/Matrix Spike Duplicate
✓ Laboratory Control Sample
✓ Surrogates
⊗ Field Duplicate
✓ Sensitivity
✓ Electronic Data Deliverable Review

2.1 Overall Assessment

The SVOC data reported in this package are considered usable for meeting project objectives. The analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this package is 100%.

The narrative indicated that the CCV %Ds for 1,4-dioxane and pyridine in analytical batch 218855 and the CCV %Ds for hexachlorobutadiene and pyridine in analytical batch 219005 were high, outside method specified acceptance criteria, with high biases. Since 1,4-dioxane, hexachlorobutadiene and pyridine were not detected in the associated samples, no qualifications were applied to the data.

The narrative indicated that the CCV %D for benzo[g,h,i]perylene was high, outside method specified acceptance criteria in analytical batch 219005. The %D was 22.8%D, with a low bias; the method specified acceptance criteria is 20%D. Since the %D was within the validation guidance of 30%D, no qualifications were applied to the data.

2.2 Holding Times

The holding times for SVOC analysis of solid samples are 14 days from sample collection to extraction and 40 days from extraction to analysis. The holding times were met for the sample analyses.

2.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 218811). SVOCs were not detected in the method blank above the MDLs.

2.4 Matrix Spike/Matrix Spike Duplicate

MS/MSD pairs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). A sample set specific MS/MSD pair was reported, using sample WB3-4, S1, C 072817. The recovery and RPD results were within the laboratory specified acceptance criteria with the following exceptions.

The recoveries acenaphthylene, anthracene, benzo[k]fluoranthene, dibenz(a,h)anthracene, dibenzofuran, fluorene, indeno[1,2,3-cd]pyrene, naphthalene and pyridine were low outside, laboratory specified acceptance criteria and the RPD for pyridine was high, outside laboratory

specified acceptance criteria. Therefore, the concentrations of acenaphthylene, anthracene, benzo[k]fluoranthene, dibenz(a,h)anthracene, dibenzofuran, fluorene, indeno[1,2,3-cd]pyrene and naphthalene in sample WB3-4, S1, C 072817 were J qualified as estimated and the non-detect result of pyridine was UJ qualified as estimated less than the MDL.

In addition, the recoveries of benzo[a]anthracene, benzo[a]pyrene, benzo[b]fluoranthene, benzo[g,h,i]perylene, chrysene, fluoranthene, phenanthrene and pyrene were flagged by the laboratory with '4' in the laboratory report, indicating the concentrations of these compounds in the parent sample were more than four times the spike concentrations and the laboratory control limits are not applicable. Based on professional and technical judgment, the concentrations of benzo[a]anthracene, benzo[a]pyrene, benzo[b]fluoranthene, benzo[g,h,i]perylene and chrysene in sample WB3-4, S1, C 072817 were J qualified as estimated. Due to the differences between the sample and the spike concentrations and professional and technical judgment, no qualifications were applied to the fluoranthene, phenanthrene and pyrene data.

Sample ID	**Compound**	**Laboratory Concentration (mg/kg)**	**Laboratory Flag**	**Validation Concentration (mg/kg)**	**Validation Qualifier***	**Reason Code****
WB3-4, S1, C 072817	Acenaphthylene	0.82	F1	0.82	J	4
WB3-4, S1, C 072817	Anthracene	2.6	F1	2.6	J	4
WB3-4, S1, C 072817	Benzo[k]fluoranthene	1.5	F1	1.5	J	4
WB3-4, S1, C 072817	Dibenz(a,h)anthracene	0.61	F1	0.61	J	4
WB3-4, S1, C 072817	Dibenzofuran	0.54	F1	0.54	J	4
WB3-4, S1, C 072817	Fluorene	0.40	F1	0.40	J	4
WB3-4, S1, C 072817	Indeno[1,2,3-cd]pyrene	2.6	F1	2.6	J	4
WB3-4, S1, C 072817	Naphthalene	0.73	F1	0.73	J	4
WB3-4, S1, C 072817	Pyridine	0.014	U,F1,F2	0.014	UJ	4
WB3-4, S1, C 072817	Benzo[a]anthracene	4.9	NA	4.9	J	4
WB3-4, S1, C 072817	Benzo[a]pyrene	3.6	NA	3.6	J	4
WB3-4, S1, C 072817	Benzo[b]fluoranthene	4.8	NA	4.8	J	4
WB3-4, S1, C 072817	Benzo[g,h,i]perylene	2.9	NA	2.9	J	4

Sample ID	Compound	Laboratory Concentration (mg/kg)	Laboratory Flag	Validation Concentration (mg/kg)	Validation Qualifier*	Reason Code**
WB3-4, S1, C 072817	Chrysene	3.7	NA	3.7	J	4

mg/kg-milligrams per kilogram
U- laboratory flag indicating analyte was analyzed for but not detected above the MDL
F1-laboratory flag indicating the MS and/or MSD recovery is outside acceptance limits
F2-MS/MSD RPD exceeds control limits
NA-not applicable
* Validation qualifiers are defined in Attachment 1 at the end of this report
**Reason codes are defined in Attachment 2 at the end of this report

2.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery results were within the laboratory specified acceptance criteria.

2.6 Surrogates

Acceptable surrogate recoveries were reported.

2.7 Field Duplicate

Two field duplicates were collected with the sample set. One field duplicate was analyzed for SVOCs, DUPE 18. Acceptable precision (RPD <40% for results greater than five times the RL and ±2 times the RL for results less than five times the RL) was demonstrated between the field duplicate and the original sample, WB3-4, S1, C 072817, with the following exceptions.

The field duplicate acceptance criteria were not met for acenaphthene, acenaphthylene, anthracene, benzo[a]anthracene, benzo[a]pyrene, benzo[b]fluoranthene, benzo[g,h,i]perylene, benzo[k]fluoranthene, chrysene, dibenz(a,h)anthracene, dibenzofuran, fluoranthene, fluorene, indeno[1,2,3-cd]pyrene, naphthalene, phenanthrene and pyrene. Therefore, based on professional and technical judgment, the concentrations of these compounds in the field duplicate pair were J qualified as estimated. The qualifications due to the field duplicate results are summarized in Attachment 3 at the end of this document.

2.8 Sensitivity

Sample WB3-4, S1, C 072817 was reported from two dilutions, 4X and 20X. The concentrations of fluoranthene, phenanthrene and pyrene from the 4X dilution exceeded the instrument linear calibration range; therefore, the concentrations of fluoranthene, phenanthrene and pyrene from the

20X dilution are the concentrations to use; the other SVOC results for sample WB3-4, S1, C 072817 from the 4X dilution are the results to use. The use of the results is indicated in the EDD with qualifiers file.

The samples were reported to the MDLs. Elevated non-detect results were reported for samples DUPE 18, WB3-4, S1, C 072817, WB3-4, S2, C 072817 and WB3-4, S3, C 072817 due to the dilutions analyzed.

The MDLs were at or below the NYSDEC DER10 App 5 Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010. It was noted that no NYSDEC DER10 App 5 Constituent Levels for Imported Fill were listed for the following compounds.

2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dinitrotoluene
2-Methylphenol
Dibenzofuran
Hexachlorobenzene

Hexachlorobutadiene
Hexachloroethane
Methylphenol, 3 & 4
Nitrobenzene
Pyridine

2.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The sample date and time were included in the sample IDs in the EDD and not included in the sample IDs in the laboratory report. No other discrepancies were identified between the level II report and the EDD.

3.0 POLYCHLORINATED BIPHENYLS

The samples were analyzed for PCBs by EPA Methods 3541/8082A.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

⊗ Overall Assessment
✓ Holding Times
✓ Method Blank
✓ Matrix Spike/Matrix Spike Duplicate

- ✓ Laboratory Control Sample
- ✓ Surrogates
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

3.1 Overall Assessment

The PCB data reported in this data set are considered usable for meeting project objectives. The analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this data set is 100%.

The narrative indicated that the CCV %Ds for PCB 1016, PCB 1048 and PCB 1254 were high, outside method specified acceptance criteria in analytical batch 218956 on gas chromatography (GC) column RTX-CLP2. The associated sample results were reported from the other GC column, RTX-CLP1, which had acceptable CCV %Ds. Therefore, no qualifications were applied to the data.

The samples contain mixtures of PCBs 1248, 1254 and 1260. There are peaks in 1248 and 1254 that are in both of these PCBs and peaks in 1254 and 1260 that are in both of these PCBs; therefore, there is contribution between PCBs when more than one PCB is detected in a sample. Therefore, based on professional and technical judgment, the concentrations of PCBs 1248, 1254 and 1260 in these samples were J qualified as estimated.

Sample ID	Compound	Laboratory Concentration (mg/kg)	Laboratory Flag	Validation Concentration (mg/kg)	Validation Qualifier	Reason Code
DUPE 18	PCB-1248	1.4	NA	1.4	J	13
DUPE 18	PCB-1254	0.48	NA	0.48	J	13
DUPE 18	PCB-1260	0.072	NA	0.072	J	13
WB3-4, S1, C 072817	PCB-1248	0.78	NA	0.78	J	13
WB3-4, S1, C 072817	PCB-1254	0.29	NA	0.29	J	13
WB3-4, S1, C 072817	PCB-1260	0.049	NA	0.049	J	13
WB3-4, S2, C 072817	PCB-1248	4.4	NA	4.4	J	13
WB3-4, S2, C 072817	PCB-1254	1.4	NA	1.4	J	13
WB3-4, S2, C 072817	PCB-1260	0.18	NA	0.18	J	13
WB3-4, S3, C 072817	PCB-1248	2.4	NA	2.4	J	13
WB3-4, S3, C 072817	PCB-1254	0.84	NA	0.84	J	13
WB3-4, S3, C 072817	PCB-1260	0.099	NA	0.099	J	13

mg/kg-milligrams per kilograms
NA-not applicable

3.2 Holding Times

No holding times are listed in the referenced method for PCB analyses. The samples were extracted and analyzed within 6 days of collection. Therefore, no qualifications were applied to the data, based on professional and technical judgment.

3.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 218813). PCBs were not detected in the method blank above the MDLs.

3.4 Matrix Spike/Matrix Spike Duplicate

An MS/MSD pair was not reported.

3.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery results were within the laboratory specified acceptance criteria.

3.6 Surrogates

Acceptable surrogate recoveries were reported.

3.7 Field Duplicate

Two field duplicates were collected with the sample set. One field duplicate was analyzed for PCBs, DUPE 18. Acceptable precision (RPD <40% for results greater than five times the RL and ±2 times the RL for results less than five times the RL) was demonstrated between the field duplicate and the original sample, WB3-4, S1, C 072817, with the following exceptions.

The field duplicate acceptance criteria were not met for PCB-1248 and PCB-1254. Therefore, based on professional and technical judgment, the concentrations of PCB-1248 and PCB-1254 in the field duplicate pair were J qualified as estimated.

Sample	Compound	Laboratory Result (mg/kg)	Laboratory Flag	RPD	Validation Result (mg/kg)	Validation Qualifier	Reason Code
DUPE 18	PCB-1248	1.4	NA	57	1.4	J	7
WB3-4, S1, C 072817	PCB-1248	0.78	NA		0.78	J	7
DUPE 18	PCB-1254	0.48	NA	49	0.48	J	7
WB3-4, S1, C 072817	PCB-1254	0.29	NA		0.29	J	7

mg/kg-milligrams per kilograms
NA-not applicable

3.8 Sensitivity

The samples were reported to the MDLs. No elevated non-detect results were reported.

It was noted that no NYSDEC constituent levels were listed in the EDD for PCBs.

3.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The sample date and time were included in the sample IDs in the EDD and not included in the sample IDs in the laboratory report. No other discrepancies were identified between the level II report and the EDD.

4.0 METALS

The samples were analyzed for metals by EPA methods 3050B/6010C (Mercury evaluated separately in Section 5.0, below).

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

⊗ Overall Assessment
✓ Holding Times
✓ Method Blank
⊗ Matrix Spike/Matrix Spike Duplicate
✓ Laboratory Control Sample
✓ Laboratory Duplicate

- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

4.1 Overall Assessment

The metals data reported in this data set are considered usable for meeting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this data set is 100%.

The low level CCV percent recovery for selenium in analytical batch 218674 was high, outside laboratory specified acceptance criteria. Therefore, the concentration of selenium in the associated sample was J qualified as estimated.

Sample	Compound	Laboratory Result (mg/kg)	Laboratory Flag	Validation Result (mg/kg)	Validation Qualifier	Reason Code
WB3-4, S1, C 072817	Selenium	0.51	J^	0.51	J	9

mg/kg-milligrams per kilograms
J- result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value
^-laboratory flag indicating the instrument related QC is outside acceptance limits

4.2 Holding Times

The holding time for the metals analysis of solid samples is 180 days from sample collection to analysis. The holding times were met for the sample analyses.

4.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 218614). The metals were not detected in the method blank above the MDLs.

4.4 Matrix Spike/Matrix Spike Duplicate

MS/MSD pairs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). A sample set specific MS/MSD pair was reported, using sample WB3-4, S1, C 072817. The recovery and RPD results were within the laboratory specified acceptance criteria with the following exceptions.

The MSD recovery of copper was low and the recovery of lead was high, both outside laboratory specified acceptance criteria. Therefore, the concentration of copper in sample WB3-4, S1, C 072817 was J- qualified as estimated with a low bias and the concentration of lead was J+ qualified as estimated with a high bias.

Sample ID	Compound	Laboratory Concentration (mg/kg)	Laboratory Flag	Validation Concentration (mg/kg)	Validation Qualifier	Reason Code
WB3-4, S1, C 072817	Copper	56	F1	56	J-	4
WB3-4, S1, C 072817	Lead	55	F1	55	J+	4

mg/kg-milligrams per kilogram
F1-laboratory flag indicating the MS and/or MSD recovery is outside acceptance limits

4.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery results were within the laboratory specified acceptance criteria.

4.6 Laboratory Duplicate

A laboratory duplicate was not reported.

4.7 Field Duplicate

Two field duplicates were collected with the sample set. One field duplicate was analyzed for metals, DUPE 18. Acceptable precision (RPD <40% for results greater than five times the RL and ±2 times the RL for results less than five times the RL) was demonstrated between the field duplicate and the original sample, WB3-4, S1, C 072817.

4.8 Sensitivity

The samples were reported to the MDLs. No elevated non-detect results were reported.

The MDLs were at or below the NYSDEC DER10 App 5 Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010. It was noted that no NYSDEC constituent level was listed for chromium.

4.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The sample

date and time were included in the sample IDs in the EDD and not included in the sample IDs in the laboratory report. No other discrepancies were identified between the level II report and the EDD.

5.0 MERCURY

The samples were analyzed for mercury by EPA method 7471B.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

✓ Overall Assessment
✓ Holding Times
✓ Method Blank
⊗ Matrix Spike/Matrix Spike Duplicate
✓ Laboratory Control Sample
✓ Laboratory Duplicate
✓ Field Duplicate
✓ Sensitivity
✓ Electronic Data Deliverable Review

5.1 Overall Assessment

The mercury data reported in this data set are considered usable for meeting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this data set is 100%.

5.2 Holding Times

The holding time for the mercury analysis of solid samples is 28 days from sample collection to analysis. The holding times were met for the sample analyses.

5.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 218684). Mercury was not detected in the method blank above the MDL.

5.4 Matrix Spike/Matrix Spike Duplicate

MS/MSD pairs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). A sample set specific MS/MSD pair was reported, using sample WB3-4, S1, C 072817. The RPD results were within the laboratory specified acceptance criteria. The recoveries of mercury were high, outside laboratory specified acceptance criteria. Therefore, the concentration of mercury in sample WB3-4, S1, C 072817 was J+ qualified as estimated with a high bias.

Sample ID	Compound	Laboratory Concentration (mg/kg)	Laboratory Flag	Validation Concentration (mg/kg)	Validation Qualifier	Reason Code
WB3-4, S1, C 072817	Mercury	0.037	J, F1	0.037	J+	4

mg/kg-milligrams per kilogram
J- result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value
F1- laboratory flag indicating the MS and/or MSD recovery is outside acceptance limits

5.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery results were within the laboratory specified acceptance criteria.

5.6 Laboratory Duplicate

A laboratory duplicate was not reported.

5.7 Field Duplicate

Two field duplicates were collected with the sample set. One field duplicate was analyzed for mercury, DUPE 18. Acceptable precision (RPD <40% for results greater than five times the RL and ±2 times the RL for results less than five times the RL) was demonstrated between the field duplicate and the original sample, WB3-4, S1, C 072817.

5.8 Sensitivity

The samples were reported to the MDL. No elevated non-detect results were reported.

The MDL was at or below the NYSDEC DER10 App 5 Constituent Level for Imported Fill or Soil Restricted Residential Use May 2010.

5.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The sample date and time were included in the sample IDs in the EDD and not included in the sample IDs in the laboratory report. No other discrepancies were identified between the level II report and the EDD.

6.0 TOTAL CYANIDE

The samples were analyzed for total cyanide by EPA Methods 9010C/9014.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

6.1 Overall Assessment

The total cyanide data reported in this data set are considered usable for meeting project objectives. The analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this data set is 100%.

6.2 Holding Times

The holding time for the total cyanide analysis of solid samples is 14 days from sample collection to analysis. The holding times were met for the sample analyses.

6.3 Method Blanks

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 218907). Cyanide was not detected in the method blank above the MDL.

6.4 Matrix Spike

An MS/MSD pair was not reported.

6.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Three LCSs were reported. The recovery results were within the laboratory specified acceptance criteria.

6.6 Laboratory Duplicate

Laboratory duplicates were not reported.

6.7 Field Duplicate

Two field duplicates were collected with the sample set. One field duplicate was analyzed for cyanide, DUPE 18. Acceptable precision (RPD <40% for results greater than five times the RL and ±2 times the RL for results less than five times the RL) was demonstrated between the field duplicate and the original sample, WB3-4, S1, C 072817.

6.8 Sensitivity

The samples were reported to the MDL. No elevated non-detect results were reported.

The MDL was at or below the NYSDEC DER10 App 5 Constituent Level for Imported Fill or Soil Restricted Residential Use May 2010.

6.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The sample date and time were included in the sample IDs in the EDD and not included in the sample IDs in the laboratory report. No other discrepancies were identified between the level II report and the EDD.

* * * * *

ATTACHMENT 1
DATA VALIDATION QUALIFIER DEFINITIONS AND INTERPRETATION KEY
Assigned by Geosyntec's Data Validation Team

DATA QUALIFIER DEFINITIONS

U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

J+ The analyte was positively identified; however, the associated numerical value is likely to be higher that the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.

J- The analyte was positively identified; however, the associated numerical value is likely to be lower that the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ATTACHMENT 2
DATA VALIDATION REASON CODES
Assigned by Geosyntec's Data Validation Team

Valid Value	Description
1	Preservation requirement not met
2	Analysis holding time exceeded
3	Blank contamination (i.e., method, trip, equipment, etc.)
4	Matrix spike/matrix spike duplicate recovery or RPD outside limits
5	LCS recovery outside limits
6	Surrogate recovery outside limits
7	Field Duplicate RPD exceeded
8	Serial dilution percent difference exceeded
9	Calibration criteria not met
10	Linear range exceeded
11	Internal standard criteria not met
12	Lab duplicates RPD exceeded
13	Other

RPD-relative percent difference

ATTACHMENT 3
METHODS 3541/8270D DATA QUALIFICATIONS DUE TO FIELD DUPLICATE ASSESSMENT

Sample	Compound	Laboratory Result (mg/kg)	Laboratory Flag	RPD	Validation Result (mg/kg)	Validation Qualifier	Reason Code
DUPE 18	Acenaphthene	0.011	J	173	0.011	J	7
WB3-4, S1, C 072817	Acenaphthene	0.15	NA		0.15	J	7
DUPE 18	Acenaphthylene	0.040	NA	181	0.040	J	7
WB3-4, S1, C 072817	Acenaphthylene	0.82	F1		0.82	J	7
DUPE 18	Anthracene	0.080	NA	188	0.080	J	7
WB3-4, S1, C 072817	Anthracene	2.6	F1		2.6	J	7
DUPE 18	Benzo[a]anthracene	0.34	NA	174	0.34	J	7
WB3-4, S1, C 072817	Benzo[a]anthracene	4.9	NA		4.9	J	7
DUPE 18	Benzo[a]pyrene	0.30	NA	169	0.30	J	7
WB3-4, S1, C 072817	Benzo[a]pyrene	3.6	NA		3.6	J	7
DUPE 18	Benzo[b]fluoranthene	0.41	NA	169	0.41	J	7
WB3-4, S1, C 072817	Benzo[b]fluoranthene	4.8	NA		4.8	J	7
DUPE 18	Benzo[g,h,i]perylene	0.27	NA	166	0.27	J	7
WB3-4, S1, C 072817	Benzo[g,h,i]perylene	2.9	NA		2.9	J	7
DUPE 18	Benzo[k]fluoranthene	0.15	NA	164	0.15	J	7
WB3-4, S1, C 072817	Benzo[k]fluoranthene	1.5	F1		1.5	J	7
DUPE 18	Chrysene	0.31	NA	169	0.31	J	7
WB3-4, S1, C 072817	Chrysene	3.7	NA		3.7	J	7

Sample	Compound	Laboratory Result (mg/kg)	Laboratory Flag	RPD	Validation Result (mg/kg)	Validation Qualifier	Reason Code
DUPE 18	Dibenz(a,h)anthracene	0.067	NA	160	0.067	J	7
WB3-4, S1, C 072817	Dibenz(a,h)anthracene	0.61	F1		0.61	J	7
DUPE 18	Dibenzofuran	0.042	J	171	0.042	J	7
WB3-4, S1, C 072817	Dibenzofuran	0.54	F1		0.54	J	7
DUPE 18	Fluoranthene	0.51	NA	177	0.51	J	7
WB3-4, S1, C 072817	Fluoranthene	8.4	NA		8.4	J	7
DUPE 18	Fluorene	0.016	J	185	0.016	J	7
WB3-4, S1, C 072817	Fluorene	0.40	F1		0.40	J	7
DUPE 18	Indeno[1,2,3-cd]pyrene	0.23	NA	167	0.23	J	7
WB3-4, S1, C 072817	Indeno[1,2,3-cd]pyrene	2.6	F1		2.6	J	7
DUPE 18	Naphthalene	0.096	NA	154	0.096	J	7
WB3-4, S1, C 072817	Naphthalene	0.73	F1		0.73	J	7
DUPE 18	Phenanthrene	0.28	NA	187	0.28	J	7
WB3-4, S1, C 072817	Phenanthrene	8.3	NA		8.3	J	7
DUPE 18	Pyrene	0.62	NA	175	0.62	J	7
WB3-4, S1, C 072817	Pyrene	9.3	NA		9.3	J	7

mg/kg-milligrams per kilogram
J- result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value
F1-laboratory flag indicating the MS and/or MSD recovery is outside acceptance limits
NA-not applicable

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Memorandum

Date:	16 August 2017
To:	Aron Krasnopoler
From:	Chris Pracheil
CC:	J. Caprio
Subject:	**Stage 2A Data Validation - Level II Data Deliverable, TestAmerica Job ID # 180-68756-1**

SITE: Former Sperry Remington Site-North IRM

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of twelve solid samples, one field duplicate and one trip blank, collected July 31, 2017, as part of the Former Sperry Remington Site-North IRM project. The analyses were performed at TestAmerica Laboratories, Inc., Pittsburgh, Pennsylvania. The samples were analyzed for the following tests:

- Volatile Organic Compounds (VOCs) by EPA Methods 8260C and 5035/8260C
- Semivolatile Organic Compounds (SVOCs) by EPA Methods 3541/8270D
- Polychlorinated Biphenyls (PCBs) by EPA Methods 3541/8082A
- Metals by EPA Methods 3050B/6010C
- Mercury by EPA Method 7471B
- Total Cyanide by EPA Methods 9010C/9014
- Total Solids by Standard Method 2540G

EXECUTIVE SUMMARY

The samples were handled, prepared, and measured in the same manner under similar prescribed conditions.

Overall, based on this Stage 2A data validation covering the quality control (QC) parameters listed below, the data as qualified are usable for meeting project objectives. Qualified data should be used within the limitations of the qualification.

The data were validated based on the Quality Assurance Project Plan (QAPP) for Former Sperry Remington Facility Industrial Outfall Site, Elmira, New York, NYSDEC Site I.D. # 808043,

NY09-2480-04, July 7, 2010, Revised November 11, 2010, USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review, January 2017 (EPA 540-R-2017-002), USEPA Contract Laboratory Program National Functional Guidelines for Superfund Inorganic Methods Data Review, January 2017 (EPA 540-R-2017-001), the pertinent methods referenced by the laboratory report and professional and technical judgment.

The following samples were analyzed and validated at Stage 2A level in the data set:

Laboratory ID	Client ID
180-68756-1	W1-b, S1, A 073117
180-68756-2	W1-b, S1, B 073117
180-68756-3	W1-b, S1, C 073117
180-68756-4	W1-b, S2, A 073117
180-68756-5	W1-b, S2, B 073117
180-68756-6	W1-b, S2, C 073117
180-68756-7	W1-b, S3, A 073117

Laboratory ID	Client ID
180-68756-8	W1-b, S3, B 073117
180-68756-9	W1-b, S3, C 073117
180-68756-10	W1-b, S4, A 073117
180-68756-11	W1-b, S4, B 073117
180-68756-12	W1-b, S4, C 073117
180-68756-17	TRIP BLANK #1
180-68756-18	DUP 20

The samples were received at the laboratory at 3.1°C and 3.6 °C within the criteria of 0-6°C. No sample preservation issues were noted by the laboratory.

The following sample receiving issues were noted:

- Incorrect error corrections were observed on the chain of custody (COC), instead of the proper procedure of a single strike through, correction, and initials and date of person making the corrections.
- There was rush sticker on the COC, obliterating part of the analysis request section of the COC.
- Sample collection times were not documented on the COC for field duplicate sample DUP 20 and Trip Blank #1. The laboratory assigned collection times of 00:00.
- Samples DUP 21, WB4-5, S1, A 073117, WB4-5, S1, C 073117, WB4-5, S2, A 073117 and WB4-5, S2, C 073117 were listed on the COC and reported in laboratory report 180-68756-2.

The solids data, used to report the samples on a dry weight basis, were not validated.

1.0 VOLATILE ORGANIC COMPOUNDS

The samples were analyzed for VOCs by EPA methods 8260C and 5035/8260C.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Surrogates
- ✓ Trip Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

1.1 Overall Assessment

The VOC data reported in this package are considered usable for meeting project objectives. The analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this package is 100%.

The narrative indicated that the continuing calibration verification (CCV) percent differences (%Ds) for 1,1,1-trichloroethane and 1,2-dichloroethane were high, outside method specified acceptance criteria, with high biases in analytical batch 218817. The %Ds were 21.4%D and 20.9%D, respectively. Since these two compounds were not detected in the associated samples, no qualifications were applied to the data. In addition, the CCV %D for 2-butanone was high, outside method specified acceptance criteria in analytical batch 218817, with a low bias. The %D was 23.4%. Since the %D was within the validation guidance acceptance criteria of 40%D, no qualifications were applied to the data.

1.2 Holding Times

The holding times for the VOC analysis of a solid sample collected using a Terracore are 48 hours from collection to laboratory receipt and 14 days from sample collection to analysis. The holding time for the VOC analysis of a preserved water sample is 14 days from sample collection to analysis. The holding times were met for the sample analyses.

1.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two method blanks were reported (batches 218804 and 218835). VOCs were not detected in the method blanks above the method detection limits (MDLs).

1.4 Matrix Spike/Matrix Spike Duplicate (MS/MSD)

An MS/MSD pair was not reported.

1.5 Laboratory Control Sample (LCS)

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two LCSs were reported. The recovery results were within the laboratory specified acceptance criteria.

1.6 Surrogates

Acceptable surrogate recoveries were reported.

1.7 Trip Blank

One trip blank, TRIP BLANK#1, accompanied the samples. VOCs were not detected in the trip blank above the MDLs, with the following exceptions.

Acetone and toluene were detected at estimated concentrations greater than the MDLs and less than the RLs in the trip blank. Since acetone and toluene were not detected in the associated samples, no qualifications were applied to the data.

1.8 Field Duplicate

A field duplicate, DUP 20 was collected with the sample set. Acceptable precision [relative percent difference (RPD) <40% for results greater than five times the reporting limit (RL) and ±2 times the RL for results less than five times the RL] was demonstrated between the field duplicate and the original sample, W1-b, S4, A 073117.

1.9 Sensitivity

The samples were reported to the MDLs. No elevated non-detect results were reported.

The MDLs were at or below the NYSDEC DER10 App 5 Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010.

1.10 Electronic Data Deliverable (EDD) Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The sample date and time were included in the sample IDs in the EDD and not included in the sample IDs in the laboratory report. No other discrepancies were identified between the level II report and the EDD.

2.0 SEMIVOLATILE ORGANIC COMPOUNDS

The samples were analyzed for SVOCs by EPA methods 3541/8270D.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Surrogates
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

2.1 Overall Assessment

The SVOC data reported in this package are considered usable for meeting project objectives. The analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this package is 100%.

2.2 Holding Times

The holding times for SVOC analysis of solid samples are 14 days from sample collection to extraction and 40 days from extraction to analysis. The holding times were met for the sample analyses.

2.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 218783). SVOCs were not detected in the method blank above the MDLs.

2.4 Matrix Spike/Matrix Spike Duplicate

An MS/MSD pair was not reported.

2.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS/LCS duplicate (LCSD) pair was reported. The recovery and RPD results were within the laboratory specified acceptance criteria.

2.6 Surrogates

Acceptable surrogate recoveries were reported.

2.7 Field Duplicate

A field duplicate was collected, but not analyzed for SVOCs.

2.8 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were reported for samples W1-b, S1, C 073117, W1-b, S2, C 073117, W1-b, S3, C 073117 and W1-b, S4, C 073117 due to the dilutions analyzed.

The MDLs were at or below the NYSDEC DER10 App 5 Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010. It was noted that no NYSDEC DER10 App 5 Constituent Levels for Imported Fill were listed for the following compounds:

2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dinitrotoluene
2-Methylphenol
Dibenzofuran
Hexachlorobenzene

Hexachlorobutadiene
Hexachloroethane
Methylphenol, 3 & 4
Nitrobenzene
Pyridine

2.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The sample date and time were included in the sample IDs in the EDD and not included in the sample IDs in the laboratory report. No other discrepancies were identified between the level II report and the EDD.

3.0 POLYCHLORINATED BIPHENYLS

The samples were analyzed for PCBs by EPA Methods 3541/8082A.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

⊗ Overall Assessment
✓ Holding Times
✓ Method Blank
✓ Matrix Spike/Matrix Spike Duplicate
✓ Laboratory Control Sample
✓ Surrogates
✓ Field Duplicate
✓ Sensitivity
✓ Electronic Data Deliverable Review

3.1 Overall Assessment

The PCB data reported in this data set are considered usable for meeting project objectives. The analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this data set is 100%.

The samples contain mixtures of PCBs 1248, 1254 and 1260. There are peaks in 1248 and 1254 that are in both of these PCBs and peaks in 1254 and 1260 that are in both of these PCBs; therefore, there is contribution between PCBs when more than one PCB is detected in a sample. Therefore, based on professional and technical judgment, the concentrations of PCBs 1248, 1254 and 1260 in these samples were J qualified as estimated.

Sample ID	Compound	Laboratory Concentration (mg/kg)	Laboratory Flag	Validation Concentration (mg/kg)	Validation Qualifier	Reason Code
W1-b, S1, C 073117	PCB-1248	9.1	NA	9.1	J	13
W1-b, S1, C 073117	PCB-1254	4.7	NA	4.7	J	13
W1-b, S1, C 073117	PCB-1260	0.96	NA	0.96	J	13
W1-b, S2, C 073117	PCB-1248	3.2	NA	3.2	J	13
W1-b, S2, C 073117	PCB-1254	2.0	NA	2.0	J	13
W1-b, S2, C 073117	PCB-1260	0.34	NA	0.34	J	13
W1-b, S3, C 073117	PCB-1248	0.83	NA	0.83	J	13
W1-b, S3, C 073117	PCB-1254	0.60	NA	0.60	J	13
W1-b, S3, C 073117	PCB-1260	0.14	NA	0.14	J	13
W1-b, S4, C 073117	PCB-1248	1.0	NA	1.0	J	13
W1-b, S4, C 073117	PCB-1254	0.65	NA	0.65	J	13
W1-b, S4, C 073117	PCB-1260	0.15	NA	0.15	J	13

mg/kg-milligrams per kilograms
NA-not applicable

3.2 Holding Times

No holding times are listed in the referenced method for PCB analyses. The samples were extracted and analyzed within 4 days of collection. Therefore, no qualifications were applied to the data, based on professional and technical judgment.

3.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 218784). PCBs were not detected in the method blank above the MDLs.

3.4 Matrix Spike/Matrix Spike Duplicate

An MS/MSD pair was not reported.

3.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS/LCSD pair was reported. The recovery and RPD results were within the laboratory specified acceptance criteria.

3.6 Surrogates

Acceptable surrogate recoveries were reported.

3.7 Field Duplicate

A field duplicate was collected, but not analyzed for PCBs.

3.8 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were reported for sample W1-b, S1, C 073117 due to the dilution analyzed.

It was noted that no NYSDEC constituent levels were listed for PCBs.

3.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The sample date and time were included in the sample IDs in the EDD and not included in the sample IDs in the laboratory report. No other discrepancies were identified between the level II report and the EDD.

4.0 METALS

The samples were analyzed for metals by EPA methods 3050B/6010C (Mercury evaluated separately in Section 5.0, below).

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

✓ Overall Assessment
✓ Holding Times

- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

4.1 Overall Assessment

The metals data reported in this data set are considered usable for meeting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this data set is 100%.

4.2 Holding Times

The holding time for the metals analysis of a solid sample is 180 days from sample collection to analysis. The holding times were met for the sample analyses.

4.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 218882). The metals were not detected in the method blank above the MDLs.

4.4 Matrix Spike/Matrix Spike Duplicate

An MS/MSD pair was not reported.

4.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery results were within the laboratory specified acceptance criteria.

4.6 Laboratory Duplicate

A laboratory duplicate was not reported.

4.7 Field Duplicate

A field duplicate was collected, but not analyzed for metals.

4.8 Sensitivity

The samples were reported to the MDLs. No elevated non-detect results were reported.

The MDLs were at or below the NYSDEC DER10 App 5 Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010. It was noted that no NYSDEC constituent level was listed for chromium.

4.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The sample date and time were included in the sample IDs in the EDD and not included in the sample IDs in the laboratory report. No other discrepancies were identified between the level II report and the EDD.

5.0 MERCURY

The samples were analyzed for mercury by EPA method 7471B.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

✓ Overall Assessment
✓ Holding Times
✓ Method Blank
⊗ Matrix Spike/Matrix Spike Duplicate
✓ Laboratory Control Sample
✓ Laboratory Duplicate
✓ Field Duplicate
✓ Sensitivity
✓ Electronic Data Deliverable Review

5.1 Overall Assessment

The mercury data reported in this data set are considered usable for meeting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this data set is 100%.

5.2 Holding Times

The holding time for the mercury analysis of solid samples is 28 days from sample collection to analysis. The holding times were met for the sample analyses.

5.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 218756). Mercury was not detected in the method blank above the MDL.

5.4 Matrix Spike/Matrix Spike Duplicate

MS/MSD pairs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). A sample set specific MS/MSD pair was reported, using sample W1-b, S1, C 073117. The recoveries of mercury were low and the RPD was high, outside the laboratory specified acceptance criteria. Therefore, the concentration of mercury in sample W1-b, S1, C 073117 was J qualified as estimated.

Sample ID	Compound	Laboratory Concentration (mg/kg)	Laboratory Flag	Validation Concentration (mg/kg)	Validation Qualifier	Reason Code
W1-b, S1, C 073117	Mercury	0.058	F1, F2	0.058	J	4

mg/kg-milligrams per kilogram
F1-laboratory flag indicating the MS and/or MSD recovery is outside acceptance limits
F2-laboratory flag indicating the MS/MSD RPD exceeds control limits

5.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery results were within the laboratory specified acceptance criteria.

5.6 Laboratory Duplicate

A laboratory duplicate was not reported.

5.7 Field Duplicate

A field duplicate was collected, but not analyzed for mercury.

5.8 Sensitivity

The samples were reported to the MDL. No elevated non-detect results were reported.

The MDL was at or below the NYSDEC DER10 App 5 Constituent Level for Imported Fill or Soil Restricted Residential Use May 2010.

5.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The sample date and time were included in the sample IDs in the EDD and not included in the sample IDs in the laboratory report. No other discrepancies were identified between the level II report and the EDD.

6.0 TOTAL CYANIDE

The samples were analyzed for total cyanide by EPA Methods 9010C/9014.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

6.1 Overall Assessment

The total cyanide data reported in this data set are considered usable for meeting project objectives. The analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this data set is 100%.

6.2 Holding Times

The holding time for the total cyanide analysis of solid samples is 14 days from sample collection to analysis. The holding times were met for the sample analyses.

6.3 Method Blanks

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 218907). Cyanide was not detected in the method blank above the MDL.

6.4 Matrix Spike/Matrix Spike Duplicate

An MS/MSD pair was not reported.

6.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Three LCSs were reported. The recovery results were within the laboratory specified acceptance criteria.

6.6 Laboratory Duplicate

Laboratory duplicates were not reported.

6.7 Field Duplicate

A field duplicate was collected, but not analyzed for cyanide.

6.8 Sensitivity

The samples were reported to the MDL. No elevated non-detect results were reported.

The MDL was at or below the NYSDEC DER10 App 5 Constituent Level for Imported Fill or Soil Restricted Residential Use May 2010.

6.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The sample date and time were included in the sample IDs in the EDD and not included in the sample IDs in the laboratory report. No other discrepancies were identified between the level II report and the EDD.

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ATTACHMENT 1
DATA VALIDATION QUALIFIER DEFINITIONS AND INTERPRETATION KEY
Assigned by Geosyntec's Data Validation Team

DATA QUALIFIER DEFINITIONS

U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

J+ The analyte was positively identified; however, the associated numerical value is likely to be higher that the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.

J- The analyte was positively identified; however, the associated numerical value is likely to be lower that the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ATTACHMENT 2
DATA VALIDATION REASON CODES
Assigned by Geosyntec's Data Validation Team

Valid Value	Description
1	Preservation requirement not met
2	Analysis holding time exceeded
3	Blank contamination (i.e., method, trip, equipment, etc.)
4	Matrix spike/matrix spike duplicate recovery or RPD outside limits
5	LCS recovery outside limits
6	Surrogate recovery outside limits
7	Field Duplicate RPD exceeded
8	Serial dilution percent difference exceeded
9	Calibration criteria not met
10	Linear range exceeded
11	Internal standard criteria not met
12	Lab duplicates RPD exceeded
13	Other

RPD-relative percent difference

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Memorandum

Date:	16 August 2017
To:	Aron Krasnopoler
From:	Chris Pracheil
CC:	J. Caprio
Subject:	**Stage 2A Data Validation - Level II Data Deliverable, TestAmerica Job ID # 180-68875-2**

SITE: Former Sperry Remington Site-North IRM

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of three solid samples, one field duplicate sample and one trip blank, collected August 02, 2017, as part of the Former Sperry Remington Site-North IRM project. The analyses were performed at TestAmerica Laboratories, Inc., Pittsburgh, Pennsylvania. The samples were analyzed for the following tests:

- Volatile Organic Compounds (VOCs) by EPA Methods 8260C and 5035/8260C
- Semivolatile Organic Compounds (SVOCs) by EPA Methods 3541/8270D
- Polychlorinated Biphenyls (PCBs) by EPA Methods 3541/8082A
- Metals by EPA Methods 3050B/6010C
- Mercury by EPA Method 7471B
- Total Cyanide by EPA Methods 9010C/9014
- Total Solids by Standard Method 2540G

EXECUTIVE SUMMARY

The samples were handled, prepared, and measured in the same manner under similar prescribed conditions.

Overall, based on this Stage 2A data validation covering the quality control (QC) parameters listed below, the data as qualified are usable for meeting project objectives. Qualified data should be used within the limitations of the qualification.

The data were validated based on the Quality Assurance Project Plan (QAPP) for Former Sperry Remington Facility Industrial Outfall Site, Elmira, New York, NYSDEC Site I.D. # 808043,

NY09-2480-04, July 7, 2010, Revised November 11, 2010, USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review, January 2017 (EPA 540-R-2017-002), USEPA Contract Laboratory Program National Functional Guidelines for Superfund Inorganic Methods Data Review, January 2017 (EPA 540-R-2017-001), the pertinent methods referenced by the laboratory report and professional and technical judgment.

The following samples were analyzed and validated at Stage 2A level in the data set:

Laboratory ID	Client ID
180-68875-9	WB2-3, S3, A 08.02.17
180-68875-12	WB2-3, S3, B 08.02.17
180-68875-13	WB2-3, S3, C 08.02.17

Laboratory ID	Client ID
180-68875-14	DUP 24
180-68875-15	TRIP BLANK #1

The samples were received at the laboratory at 0.8°C, within the criteria of 0-6°C. No sample preservation issues were noted by the laboratory.

The following sample receiving issues were noted:

- Incorrect error corrections were observed on the chain of custody (COC), instead of the proper procedure of a single strike through, correction, and initials and date of person making the corrections.

- Sample TRIP BLANK #1 was not listed on the COC, but was received by the laboratory and logged in with a collection date and time of 8/02/2017, 00:00.

- A sample collection time was not documented on the COC for field duplicate sample DUP 24. The laboratory assigned a collection time of 00:00.

- Samples W8, S5, A 08.02.17, W8, S5, C 08.02.17, W8, S6, A 08.02.17, W8, S6, C 08.02.17, WB1-2, S1, A 08.02.17, WB1-2, S1, C 08.02.17, WB1-2, S2, A 08.02.17, WB1-2, S2, C 08.02.17, DUP 22 and DUP 23 were listed on the COC and reported in laboratory report 180-68875-1.

The solids data, used to report the samples on a dry weight basis, were not validated.

1.0 VOLATILE ORGANIC COMPOUNDS

The samples were analyzed for VOCs by EPA methods 8260C and 5035/8260C.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues

were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Surrogates
- ✓ Trip Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

1.1 Overall Assessment

The VOC data reported in this package are considered usable for meeting project objectives. The analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this package is 100%.

The narrative indicated that the continuing calibration verification (CCV) percent difference (%D) for 2-butanone was high in analytical batch 219096, outside method specified acceptance criteria. The %D was 21.1%D, with a low bias. Since the %D was within the validation guidance acceptance criteria of 40%D, no qualifications were applied to the data.

The CCV %D for 1,1,1-trichloroethane was high in analytical batch 219248, outside the method specified acceptance criteria. The %D was 20.5% with a high bias. Since 1,1,1-trichloroethane was not detected in the associated sample, no qualifications were applied to the data.

1.2 Holding Times

The holding times for the VOC analysis of a solid sample collected using a Terracore are 48 hours from collection to laboratory receipt and 14 days from sample collection to analysis. The holding time for the VOC analysis of a preserved water sample is 14 days from sample collection to analysis. The holding times were met for the sample analyses.

1.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Three method blanks were reported (batches 219095, 219231 and 219255). VOCs were not detected in the method blanks above the method detection limits (MDLs).

1.4 Matrix Spike/Matrix Spike Duplicate (MS/MSD)

An MS/MSD pair was not reported.

1.5 Laboratory Control Sample (LCS)

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Three LCSs were reported. The recovery results were within the laboratory specified acceptance criteria.

1.6 Surrogates

Acceptable surrogate recoveries were reported.

1.7 Trip Blank

One trip blank, TRIP BLANK#1, accompanied the samples. VOCs were not detected in the trip blank above the MDLs.

1.8 Field Duplicate

A field duplicate, DUP 24 was collected with the sample set. Acceptable precision [relative percent difference (RPD) <40% for results greater than five times the reporting limit (RL) and ±2 times the RL for results less than five times the RL] was demonstrated between the field duplicate and the original sample, WB2-3, S3, B 08.02.17.

1.9 Sensitivity

The samples were reported to the MDLs. No elevated non-detect results were reported.

The MDLs were at or below the NYSDEC DER10 App 5 Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010.

1.10 Electronic Data Deliverable (EDD) Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The sample date and time were included in the sample IDs in the EDD and not included in the sample IDs in the laboratory report. No other discrepancies were identified between the level II report and the EDD.

2.0 SEMIVOLATILE ORGANIC COMPOUNDS

The samples were analyzed for SVOCs by EPA methods 3541/8270D.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Surrogates
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

2.1 Overall Assessment

The SVOC data reported in this package are considered usable for meeting project objectives. The analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this package is 100%.

2.2 Holding Times

The holding times for SVOC analysis of solid samples are 14 days from sample collection to extraction and 40 days from extraction to analysis. The holding times were met for the sample analyses.

2.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 219916). SVOCs were not detected in the method blank above the MDLs.

2.4 Matrix Spike/Matrix Spike Duplicate

An MS/MSD pair was not reported.

2.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery results were within the laboratory specified acceptance criteria.

2.6 Surrogates

Acceptable surrogate recoveries were reported.

2.7 Field Duplicate

A field duplicate was collected, but not analyzed for SVOCs.

2.8 Sensitivity

The samples were reported to the MDLs. No elevated non-detect results were reported.

The MDLs were at or below the NYSDEC DER10 App 5 Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010. It was noted that no NYSDEC DER10 App 5 Constituent Levels for Imported Fill were listed for the following compounds:

2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dinitrotoluene
2-Methylphenol
Dibenzofuran
Hexachlorobenzene

Hexachlorobutadiene
Hexachloroethane
Methylphenol, 3 & 4
Nitrobenzene
Pyridine

2.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The sample date and time were included in the sample IDs in the EDD and not included in the sample IDs in the laboratory report. No other discrepancies were identified between the level II report and the EDD.

3.0 POLYCHLORINATED BIPHENYLS

The samples were analyzed for PCBs by EPA Methods 3541/8082A.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

⊗ Overall Assessment
✓ Holding Times
✓ Method Blank
✓ Matrix Spike/Matrix Spike Duplicate
✓ Laboratory Control Sample
✓ Surrogates
✓ Field Duplicate
✓ Sensitivity
✓ Electronic Data Deliverable Review

3.1 Overall Assessment

The PCB data reported in this data set are considered usable for meeting project objectives. The analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this data set is 100%.

The narrative indicated that the CCV %D for PCB 1254 in analytical batch 220002 was high, outside method specified acceptance criteria on gas chromatography (GC) column RTX-CLP1. The associated sample results were reported from the other GC column, which had an acceptable CCV %D. Therefore, no qualifications were applied to the data.

The sample contains a mixture of PCBs 1248, 1254 and 1260. There are peaks in 1248 and 1254 that are in both of these PCBs and peaks in 1254 and 1260 that are in both of these PCBs; therefore,

there is contribution between PCBs when more than one PCB is detected in a sample. Therefore, based on professional and technical judgment, the concentrations of PCBs 1248, 1254 and 1260 in the sample were J qualified as estimated.

Sample ID	Compound	Laboratory Concentration (mg/kg)	Laboratory Flag	Validation Concentration (mg/kg)	Validation Qualifier*	Reason Code**
WB2-3, S3, C 08.02.17	PCB-1248	1.6	NA	1.6	J	13
WB2-3, S3, C 08.02.17	PCB-1254	1.2	NA	1.2	J	13
WB2-3, S3, C 08.02.17	PCB-1260	0.19	NA	0.19	J	13

mg/kg-milligrams per kilograms
NA-not applicable
* Validation qualifiers are defined in Attachment 1 at the end of this report
**Reason codes are defined in Attachment 2 at the end of this report

3.2 Holding Times

No holding times are listed in the referenced method for PCB analyses. The samples were extracted and analyzed within 13 days of collection. Therefore, no qualifications were applied to the data, based on professional and technical judgment.

3.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 219927). PCBs were not detected in the method blank above the MDLs.

3.4 Matrix Spike/Matrix Spike Duplicate

An MS/MSD pair was not reported.

3.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS/LCS duplicate (LCSD) pair was reported. The recovery and RPD results were within the laboratory specified acceptance criteria.

3.6 Surrogates

Acceptable surrogate recoveries were reported.

3.7 Field Duplicate

A field duplicate was collected, but not analyzed for PCBs.

3.8 Sensitivity

The samples were reported to the MDLs. No elevated non-detect results were reported.

It was noted that no NYSDEC constituent levels were listed for PCBs.

3.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The sample date and time were included in the sample IDs in the EDD and not included in the sample IDs in the laboratory report. No other discrepancies were identified between the level II report and the EDD.

4.0 METALS

The samples were analyzed for metals by EPA methods 3050B/6010C (Mercury evaluated separately in Section 5.0, below).

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

4.1 Overall Assessment

The metals data reported in this data set are considered usable for meeting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this data set is 100%.

4.2 Holding Times

The holding time for the metals analysis of a solid sample is 180 days from sample collection to analysis. The holding times were met for the sample analyses.

4.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 219443). The metals were not detected in the method blank above the MDLs.

4.4 Matrix Spike/Matrix Spike Duplicate

An MS/MSD pair was not reported.

4.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery results were within the laboratory specified acceptance criteria.

4.6 Laboratory Duplicate

A laboratory duplicate was not reported.

4.7 Field Duplicate

A field duplicate was collected, but not analyzed for metals.

4.8 Sensitivity

The samples were reported to the MDLs. No elevated non-detect results were reported.

The MDLs were at or below the NYSDEC DER10 App 5 Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010. It was noted that no NYSDEC constituent level was listed for chromium.

4.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The sample date and time were included in the sample IDs in the EDD and not included in the sample IDs in the laboratory report. No other discrepancies were identified between the level II report and the EDD.

5.0 MERCURY

The samples were analyzed for mercury by EPA method 7471B.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

5.1 Overall Assessment

The mercury data reported in this data set are considered usable for meeting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this data set is 100%.

5.2 Holding Times

The holding time for the mercury analysis of solid samples is 28 days from sample collection to analysis. The holding times were met for the sample analyses.

5.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 219480). Mercury was not detected in the method blank above the MDL.

5.4 Matrix Spike/Matrix Spike Duplicate

An MS/MSD pair was not reported.

5.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery results were within the laboratory specified acceptance criteria.

5.6 Laboratory Duplicate

A laboratory duplicate was not reported.

5.7 Field Duplicate

A field duplicate was collected, but not analyzed for mercury.

5.8 Sensitivity

The samples were reported to the MDL. No elevated non-detect results were reported.

The MDL was at or below the NYSDEC DER10 App 5 Constituent Level for Imported Fill or Soil Restricted Residential Use May 2010.

5.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The sample date and time were included in the sample IDs in the EDD and not included in the sample IDs in

the laboratory report. No other discrepancies were identified between the level II report and the EDD.

6.0 TOTAL CYANIDE

The samples were analyzed for total cyanide by EPA Methods 9010C/9014.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

6.1 Overall Assessment

The total cyanide data reported in this data set are considered usable for meeting project objectives. The analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this data set is 100%.

6.2 Holding Times

The holding time for the total cyanide analysis of solid samples is 14 days from sample collection to analysis. The holding times were met for the sample analyses.

6.3 Method Blanks

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 219313). Cyanide was not detected in the method blank above the MDL.

6.4 Matrix Spike/Matrix Spike Duplicate

An MS/MSD pair was not reported.

6.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Three LCSs were reported. The recovery results were within the laboratory specified acceptance criteria.

6.6 Laboratory Duplicate

Laboratory duplicates were not reported.

6.7 Field Duplicate

A field duplicate was collected, but not analyzed for cyanide.

6.8 Sensitivity

The samples were reported to the MDL. No elevated non-detect results were reported.

The MDL was at or below the NYSDEC DER10 App 5 Constituent Level for Imported Fill or Soil Restricted Residential Use May 2010.

6.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The sample date and time were included in the sample IDs in the EDD and not included in the sample IDs in the laboratory report. No other discrepancies were identified between the level II report and the EDD.

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ATTACHMENT 1
DATA VALIDATION QUALIFIER DEFINITIONS AND INTERPRETATION KEY
Assigned by Geosyntec's Data Validation Team

DATA QUALIFIER DEFINITIONS

U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

J+ The analyte was positively identified; however, the associated numerical value is likely to be higher that the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.

J- The analyte was positively identified; however, the associated numerical value is likely to be lower that the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ATTACHMENT 2
DATA VALIDATION REASON CODES
Assigned by Geosyntec's Data Validation Team

Valid Value	Description
1	Preservation requirement not met
2	Analysis holding time exceeded
3	Blank contamination (i.e., method, trip, equipment, etc.)
4	Matrix spike/matrix spike duplicate recovery or RPD outside limits
5	LCS recovery outside limits
6	Surrogate recovery outside limits
7	Field Duplicate RPD exceeded
8	Serial dilution percent difference exceeded
9	Calibration criteria not met
10	Linear range exceeded
11	Internal standard criteria not met
12	Lab duplicates RPD exceeded
13	Other

RPD-relative percent difference

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Memorandum

Date:	16 August 2017
To:	Aron Krasnopoler
From:	Chris Pracheil
CC:	J. Caprio
Subject:	**Stage 2A Data Validation - Level II Data Deliverable, TestAmerica Job ID # 180-68875-2**

SITE: Former Sperry Remington Site-North IRM

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of three solid samples, one field duplicate sample and one trip blank, collected August 02, 2017, as part of the Former Sperry Remington Site-North IRM project. The analyses were performed at TestAmerica Laboratories, Inc., Pittsburgh, Pennsylvania. The samples were analyzed for the following tests:

- Volatile Organic Compounds (VOCs) by EPA Methods 8260C and 5035/8260C
- Semivolatile Organic Compounds (SVOCs) by EPA Methods 3541/8270D
- Polychlorinated Biphenyls (PCBs) by EPA Methods 3541/8082A
- Metals by EPA Methods 3050B/6010C
- Mercury by EPA Method 7471B
- Total Cyanide by EPA Methods 9010C/9014
- Total Solids by Standard Method 2540G

EXECUTIVE SUMMARY

The samples were handled, prepared, and measured in the same manner under similar prescribed conditions.

Overall, based on this Stage 2A data validation covering the quality control (QC) parameters listed below, the data as qualified are usable for meeting project objectives. Qualified data should be used within the limitations of the qualification.

The data were validated based on the Quality Assurance Project Plan (QAPP) for Former Sperry Remington Facility Industrial Outfall Site, Elmira, New York, NYSDEC Site I.D. # 808043,

NY09-2480-04, July 7, 2010, Revised November 11, 2010, USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review, January 2017 (EPA 540-R-2017-002), USEPA Contract Laboratory Program National Functional Guidelines for Superfund Inorganic Methods Data Review, January 2017 (EPA 540-R-2017-001), the pertinent methods referenced by the laboratory report and professional and technical judgment.

The following samples were analyzed and validated at Stage 2A level in the data set:

Laboratory ID	Client ID
180-68875-9	WB2-3, S3, A 08.02.17
180-68875-12	WB2-3, S3, B 08.02.17
180-68875-13	WB2-3, S3, C 08.02.17

Laboratory ID	Client ID
180-68875-14	DUP 24
180-68875-15	TRIP BLANK #1

The samples were received at the laboratory at 0.8°C, within the criteria of 0-6°C. No sample preservation issues were noted by the laboratory.

The following sample receiving issues were noted:

- Incorrect error corrections were observed on the chain of custody (COC), instead of the proper procedure of a single strike through, correction, and initials and date of person making the corrections.

- Sample TRIP BLANK #1 was not listed on the COC, but was received by the laboratory and logged in with a collection date and time of 8/02/2017, 00:00.

- A sample collection time was not documented on the COC for field duplicate sample DUP 24. The laboratory assigned a collection time of 00:00.

- Samples W8, S5, A 08.02.17, W8, S5, C 08.02.17, W8, S6, A 08.02.17, W8, S6, C 08.02.17, WB1-2, S1, A 08.02.17, WB1-2, S1, C 08.02.17, WB1-2, S2, A 08.02.17, WB1-2, S2, C 08.02.17, DUP 22 and DUP 23 were listed on the COC and reported in laboratory report 180-68875-1.

The solids data, used to report the samples on a dry weight basis, were not validated.

1.0 VOLATILE ORGANIC COMPOUNDS

The samples were analyzed for VOCs by EPA methods 8260C and 5035/8260C.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues

were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Surrogates
- ✓ Trip Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

1.1 Overall Assessment

The VOC data reported in this package are considered usable for meeting project objectives. The analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this package is 100%.

The narrative indicated that the continuing calibration verification (CCV) percent difference (%D) for 2-butanone was high in analytical batch 219096, outside method specified acceptance criteria. The %D was 21.1%D, with a low bias. Since the %D was within the validation guidance acceptance criteria of 40%D, no qualifications were applied to the data.

The CCV %D for 1,1,1-trichloroethane was high in analytical batch 219248, outside the method specified acceptance criteria. The %D was 20.5% with a high bias. Since 1,1,1-trichloroethane was not detected in the associated sample, no qualifications were applied to the data.

1.2 Holding Times

The holding times for the VOC analysis of a solid sample collected using a Terracore are 48 hours from collection to laboratory receipt and 14 days from sample collection to analysis. The holding time for the VOC analysis of a preserved water sample is 14 days from sample collection to analysis. The holding times were met for the sample analyses.

1.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Three method blanks were reported (batches 219095, 219231 and 219255). VOCs were not detected in the method blanks above the method detection limits (MDLs).

1.4 Matrix Spike/Matrix Spike Duplicate (MS/MSD)

An MS/MSD pair was not reported.

1.5 Laboratory Control Sample (LCS)

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Three LCSs were reported. The recovery results were within the laboratory specified acceptance criteria.

1.6 Surrogates

Acceptable surrogate recoveries were reported.

1.7 Trip Blank

One trip blank, TRIP BLANK#1, accompanied the samples. VOCs were not detected in the trip blank above the MDLs.

1.8 Field Duplicate

A field duplicate, DUP 24 was collected with the sample set. Acceptable precision [relative percent difference (RPD) <40% for results greater than five times the reporting limit (RL) and ±2 times the RL for results less than five times the RL] was demonstrated between the field duplicate and the original sample, WB2-3, S3, B 08.02.17.

1.9 Sensitivity

The samples were reported to the MDLs. No elevated non-detect results were reported.

The MDLs were at or below the NYSDEC DER10 App 5 Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010.

1.10 Electronic Data Deliverable (EDD) Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The sample date and time were included in the sample IDs in the EDD and not included in the sample IDs in the laboratory report. No other discrepancies were identified between the level II report and the EDD.

2.0 SEMIVOLATILE ORGANIC COMPOUNDS

The samples were analyzed for SVOCs by EPA methods 3541/8270D.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Surrogates
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

2.1 Overall Assessment

The SVOC data reported in this package are considered usable for meeting project objectives. The analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this package is 100%.

2.2 Holding Times

The holding times for SVOC analysis of solid samples are 14 days from sample collection to extraction and 40 days from extraction to analysis. The holding times were met for the sample analyses.

2.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 219916). SVOCs were not detected in the method blank above the MDLs.

2.4 Matrix Spike/Matrix Spike Duplicate

An MS/MSD pair was not reported.

2.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery results were within the laboratory specified acceptance criteria.

2.6 Surrogates

Acceptable surrogate recoveries were reported.

2.7 Field Duplicate

A field duplicate was collected, but not analyzed for SVOCs.

2.8 Sensitivity

The samples were reported to the MDLs. No elevated non-detect results were reported.

The MDLs were at or below the NYSDEC DER10 App 5 Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010. It was noted that no NYSDEC DER10 App 5 Constituent Levels for Imported Fill were listed for the following compounds:

2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dinitrotoluene
2-Methylphenol
Dibenzofuran
Hexachlorobenzene

Hexachlorobutadiene
Hexachloroethane
Methylphenol, 3 & 4
Nitrobenzene
Pyridine

2.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The sample date and time were included in the sample IDs in the EDD and not included in the sample IDs in the laboratory report. No other discrepancies were identified between the level II report and the EDD.

3.0 POLYCHLORINATED BIPHENYLS

The samples were analyzed for PCBs by EPA Methods 3541/8082A.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

⊗ Overall Assessment
✓ Holding Times
✓ Method Blank
✓ Matrix Spike/Matrix Spike Duplicate
✓ Laboratory Control Sample
✓ Surrogates
✓ Field Duplicate
✓ Sensitivity
✓ Electronic Data Deliverable Review

3.1 Overall Assessment

The PCB data reported in this data set are considered usable for meeting project objectives. The analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this data set is 100%.

The narrative indicated that the CCV %D for PCB 1254 in analytical batch 220002 was high, outside method specified acceptance criteria on gas chromatography (GC) column RTX-CLP1. The associated sample results were reported from the other GC column, which had an acceptable CCV %D. Therefore, no qualifications were applied to the data.

The sample contains a mixture of PCBs 1248, 1254 and 1260. There are peaks in 1248 and 1254 that are in both of these PCBs and peaks in 1254 and 1260 that are in both of these PCBs; therefore,

there is contribution between PCBs when more than one PCB is detected in a sample. Therefore, based on professional and technical judgment, the concentrations of PCBs 1248, 1254 and 1260 in the sample were J qualified as estimated.

Sample ID	Compound	Laboratory Concentration (mg/kg)	Laboratory Flag	Validation Concentration (mg/kg)	Validation Qualifier*	Reason Code**
WB2-3, S3, C 08.02.17	PCB-1248	1.6	NA	1.6	J	13
WB2-3, S3, C 08.02.17	PCB-1254	1.2	NA	1.2	J	13
WB2-3, S3, C 08.02.17	PCB-1260	0.19	NA	0.19	J	13

mg/kg-milligrams per kilograms
NA-not applicable
* Validation qualifiers are defined in Attachment 1 at the end of this report
**Reason codes are defined in Attachment 2 at the end of this report

3.2 Holding Times

No holding times are listed in the referenced method for PCB analyses. The samples were extracted and analyzed within 13 days of collection. Therefore, no qualifications were applied to the data, based on professional and technical judgment.

3.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 219927). PCBs were not detected in the method blank above the MDLs.

3.4 Matrix Spike/Matrix Spike Duplicate

An MS/MSD pair was not reported.

3.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS/LCS duplicate (LCSD) pair was reported. The recovery and RPD results were within the laboratory specified acceptance criteria.

3.6 Surrogates

Acceptable surrogate recoveries were reported.

3.7 Field Duplicate

A field duplicate was collected, but not analyzed for PCBs.

3.8 Sensitivity

The samples were reported to the MDLs. No elevated non-detect results were reported.

It was noted that no NYSDEC constituent levels were listed for PCBs.

3.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The sample date and time were included in the sample IDs in the EDD and not included in the sample IDs in the laboratory report. No other discrepancies were identified between the level II report and the EDD.

4.0 METALS

The samples were analyzed for metals by EPA methods 3050B/6010C (Mercury evaluated separately in Section 5.0, below).

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

4.1 Overall Assessment

The metals data reported in this data set are considered usable for meeting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this data set is 100%.

4.2 Holding Times

The holding time for the metals analysis of a solid sample is 180 days from sample collection to analysis. The holding times were met for the sample analyses.

4.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 219443). The metals were not detected in the method blank above the MDLs.

4.4 Matrix Spike/Matrix Spike Duplicate

An MS/MSD pair was not reported.

4.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery results were within the laboratory specified acceptance criteria.

4.6 Laboratory Duplicate

A laboratory duplicate was not reported.

4.7 Field Duplicate

A field duplicate was collected, but not analyzed for metals.

4.8 Sensitivity

The samples were reported to the MDLs. No elevated non-detect results were reported.

The MDLs were at or below the NYSDEC DER10 App 5 Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010. It was noted that no NYSDEC constituent level was listed for chromium.

4.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The sample date and time were included in the sample IDs in the EDD and not included in the sample IDs in the laboratory report. No other discrepancies were identified between the level II report and the EDD.

5.0 MERCURY

The samples were analyzed for mercury by EPA method 7471B.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

5.1 Overall Assessment

The mercury data reported in this data set are considered usable for meeting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this data set is 100%.

5.2 Holding Times

The holding time for the mercury analysis of solid samples is 28 days from sample collection to analysis. The holding times were met for the sample analyses.

5.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 219480). Mercury was not detected in the method blank above the MDL.

5.4 Matrix Spike/Matrix Spike Duplicate

An MS/MSD pair was not reported.

5.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery results were within the laboratory specified acceptance criteria.

5.6 Laboratory Duplicate

A laboratory duplicate was not reported.

5.7 Field Duplicate

A field duplicate was collected, but not analyzed for mercury.

5.8 Sensitivity

The samples were reported to the MDL. No elevated non-detect results were reported.

The MDL was at or below the NYSDEC DER10 App 5 Constituent Level for Imported Fill or Soil Restricted Residential Use May 2010.

5.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The sample date and time were included in the sample IDs in the EDD and not included in the sample IDs in

the laboratory report. No other discrepancies were identified between the level II report and the EDD.

6.0 TOTAL CYANIDE

The samples were analyzed for total cyanide by EPA Methods 9010C/9014.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

6.1 Overall Assessment

The total cyanide data reported in this data set are considered usable for meeting project objectives. The analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this data set is 100%.

6.2 Holding Times

The holding time for the total cyanide analysis of solid samples is 14 days from sample collection to analysis. The holding times were met for the sample analyses.

6.3 Method Blanks

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 219313). Cyanide was not detected in the method blank above the MDL.

6.4 Matrix Spike/Matrix Spike Duplicate

An MS/MSD pair was not reported.

6.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Three LCSs were reported. The recovery results were within the laboratory specified acceptance criteria.

6.6 Laboratory Duplicate

Laboratory duplicates were not reported.

6.7 Field Duplicate

A field duplicate was collected, but not analyzed for cyanide.

6.8 Sensitivity

The samples were reported to the MDL. No elevated non-detect results were reported.

The MDL was at or below the NYSDEC DER10 App 5 Constituent Level for Imported Fill or Soil Restricted Residential Use May 2010.

6.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The sample date and time were included in the sample IDs in the EDD and not included in the sample IDs in the laboratory report. No other discrepancies were identified between the level II report and the EDD.

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ATTACHMENT 1
DATA VALIDATION QUALIFIER DEFINITIONS AND INTERPRETATION KEY
Assigned by Geosyntec's Data Validation Team

DATA QUALIFIER DEFINITIONS

U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

J+ The analyte was positively identified; however, the associated numerical value is likely to be higher that the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.

J- The analyte was positively identified; however, the associated numerical value is likely to be lower that the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ATTACHMENT 2
DATA VALIDATION REASON CODES
Assigned by Geosyntec's Data Validation Team

Valid Value	Description
1	Preservation requirement not met
2	Analysis holding time exceeded
3	Blank contamination (i.e., method, trip, equipment, etc.)
4	Matrix spike/matrix spike duplicate recovery or RPD outside limits
5	LCS recovery outside limits
6	Surrogate recovery outside limits
7	Field Duplicate RPD exceeded
8	Serial dilution percent difference exceeded
9	Calibration criteria not met
10	Linear range exceeded
11	Internal standard criteria not met
12	Lab duplicates RPD exceeded
13	Other

RPD-relative percent difference

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Memorandum

Date:	20 August 2017
To:	Aron Krasnopoler
From:	Mary Tyler
CC:	J. Caprio
Subject:	**Stage 2A Data Validation - Level II Data Deliverable, TestAmerica Job ID # 180-68986-1**

SITE: Former Sperry Remington Site-North IRM

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of three solid samples, including one sample for matrix spike/matrix spike duplicate (MS/MSD) analysis, two equipment blanks and two trip blanks, collected August 03-04, 2017, as part of the Former Sperry Remington Site-North IRM project. The analyses were performed at TestAmerica Laboratories, Inc., Pittsburgh, Pennsylvania. The samples were analyzed for the following tests:

- Volatile Organic Compounds (VOCs) by EPA Methods 8260C and 5035/8260C
- Semivolatile Organic Compounds (SVOCs) by EPA Methods 3520C/8270D and 3541/8270D
- Polychlorinated Biphenyls (PCBs) by EPA Methods 3510C/8082A and 3541/8082A
- Metals by EPA Methods 3005A/6010C and 3050B/6010C
- Mercury by EPA Methods 7470A and 7471B
- Total Cyanide by EPA Methods 9010C/9014
- Total Solids by Standard Method 2540G

EXECUTIVE SUMMARY

The samples were handled, prepared, and measured in the same manner under similar prescribed conditions.

Overall, based on this Stage 2A data validation covering the quality control (QC) parameters listed below, the data as qualified are usable for meeting project objectives. Qualified data should be used within the limitations of the qualification.

The data were validated based on the Quality Assurance Project Plan (QAPP) for Former Sperry Remington Facility Industrial Outfall Site, Elmira, New York, NYSDEC Site I.D. # 808043, NY09-2480-04, July 7, 2010, Revised November 11, 2010, USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review, January 2017 (EPA 540-R-2017-002), USEPA Contract Laboratory Program National Functional Guidelines for Superfund Inorganic Methods Data Review, January 2017 (EPA 540-R-2017-001), the pertinent methods referenced by the laboratory report and professional and technical judgment.

The following samples were analyzed and validated at Stage 2A level in the data set:

Laboratory ID	Client ID
180-68986-1	EQ BLK #1 08.03.17
180-68986-2	EQ BLK #2 08.04.17
180-68986-7	W5-b, S5, A 08.04.17
180-68986-7 MS	W5-b, S5, A 08.04.17 MS
180-68986-7 MSD	W5-b, S5, A 08.04.17 MSD

Laboratory ID	Client ID
180-68986-8	W5-b, S5, B 08.04.17
180-68986-9	W5-b, S5, C 08.04.17
180-68986-10	TRIP BLANK #1
180-68986-11	TRIP BLANK #2

The samples were received at the laboratory at 1.0°C and 4.4°C, within the criteria of 0-6°C. No sample preservation issues were noted by the laboratory.

The following sample receiving issues were noted:

- Incorrect error corrections were observed on the chain of custody (COC), instead of the proper procedure of a single strike through, correction, and initials and date of person making the corrections.
- There was a rush sticker on the COC, obliterating part of the analysis request section of the COC.
- The sample collection time was not documented on the COC for the trip blanks. The laboratory assigned collection times of 00:00.
- The narrative indicated that both trip blanks were received with air bubbles of approximately 6 millimeters (mm) in diameter. Since the VOCs were not detected in the associated samples, no qualifications were applied to the data.
- Samples WB 1-2, S3, A 08.04.17, WB 1-2, S3, C 08.04.17, WB 1-2, S4, A 08.04.17 and WB 1-2, S4, C 08.04.17 were listed on the COC and reported in laboratory report 180-68986-2.

The solids data, used to report the samples on a dry weight basis, were not validated.

1.0 VOLATILE ORGANIC COMPOUNDS

The samples were analyzed for VOCs by EPA methods 8260C and 5035/8260C.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Surrogates
- ✓ Equipment Blank
- ✓ Trip Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

1.1 Overall Assessment

The VOC data reported in this package are considered usable for meeting project objectives. The analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this package is 100%.

The narrative indicated that the continuing calibration verification (CCV) percent difference (%D) for 1,1,1-trichloroethane was high, outside method specified acceptance criteria in analytical batch 219248. The %D was 20.5%D with a high bias. Since 1,1,1-trichloroethane was not detected in the associated samples, no qualifications were applied to the data.

1.2 Holding Times

The holding times for the VOC analysis of a solid sample collected using a Terracore are 48 hours from collection to laboratory receipt and 14 days from sample collection to analysis. The holding time for the VOC analysis of a preserved water sample is 14 days from sample collection to analysis. The holding times were met for the sample analyses.

1.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two method blanks were reported (batches 219341 and 219248). VOCs were not detected in the method blanks above the method detection limits (MDLs).

1.4 Matrix Spike/Matrix Spike Duplicate

One MS/MSD pair was reported, using sample W5-b, S5, A 08.04.17. The recovery and relative percent difference (RPD) results were within the laboratory specified acceptance criteria

1.5 Laboratory Control Sample (LCS)

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two LCSs were reported. The recovery results were within the laboratory specified acceptance criteria.

1.6 Surrogates

Acceptable surrogate recoveries were reported.

1.7 Equipment Blank

Two equipment blanks were collected with the samples, EQ BLK #1 08.03.17 and EQ BLK #2 08.04.17. VOCs were not detected in the equipment blanks above the MDLs.

1.8 Trip Blank

Two trip blanks, TRIP BLANK#1 and TRIP BLANK #2, accompanied the samples. VOCs were not detected in the trip blanks above the MDLs, with the following exceptions.

2-Butanone was detected at an estimated concentration, greater than the MDL and less than the reporting limit (RL) in TRIP BLANK #1. Acetone was detected at estimated concentrations, greater than the MDL and less than the reporting limit (RL) in both TRIP BLANK #1 and TRIP BLANK #2. Since 2-butanone and acetone were not detected in the associated samples, no qualifications were applied to the data.

As noted above, both trip blanks were received with air bubbles of approximately 6 mm in diameter. Since the VOCs were not detected in the associated samples, no qualifications were applied to the data.

1.9 Field Duplicate

A field duplicate was not collected with the sample set.

1.10 Sensitivity

The samples were reported to the MDLs. No elevated non-detect results were reported.

The MDLs were at or below the NYSDEC DER10 App 5 Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010.

1.11 Electronic Data Deliverable (EDD) Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The sample date and time were included in the sample IDs in the EDD and not included in the sample IDs in the laboratory report. No other discrepancies were identified between the level II report and the EDD.

2.0 SEMIVOLATILE ORGANIC COMPOUNDS

The samples were analyzed for SVOCs by EPA methods 3520C/8270D and 3541/8270D.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ⊗ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Surrogates
- ✓ Equipment Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

2.1 Overall Assessment

The SVOC data reported in this package are considered usable for meeting project objectives. The analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this package is 100%.

The narrative indicated that the CCV %D for pyridine in analytical batch 219660 was high, outside method specified acceptance criteria, with a high bias. Since pyridine was not detected in the associated samples, no qualifications were applied to the data.

2.2 Holding Times

The holding times for SVOC analysis of solid samples are 14 days from sample collection to extraction and 40 days from extraction to analysis. The holding times for SVOC analysis of water samples are 7 days from sample collection to extraction and 40 days from extraction to analysis. The holding times were met for the sample analyses.

2.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two method blanks were reported (batches 219432 and 220050). SVOCs were not detected in the method blanks above the MDLs.

2.4 Matrix Spike/Matrix Spike Duplicate

MS/MSD pairs were not reported.

2.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS and one LCS/LCS duplicate (LCSD) pair were reported. The recovery and RPD results were within the laboratory specified acceptance criteria.

2.6 Surrogates

Acceptable surrogate recoveries were reported.

2.7 Equipment Blank

Two equipment blanks were collected with the samples, EQ BLK #1 08.03.17 and EQ BLK #2 08.04.17. SVOCs were not detected in the equipment blanks above the MDLs.

2.8 Field Duplicate

A field duplicate was not collected with the sample set.

2.9 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were not reported.

The MDLs were at or below the NYSDEC DER10 App 5 Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010. It was noted that no NYSDEC DER10 App 5 Constituent Levels for Imported Fill were listed for the following compounds:

2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dinitrotoluene
2-Methylphenol
Dibenzofuran
Hexachlorobenzene

Hexachlorobutadiene
Hexachloroethane
Methylphenol, 3 & 4
Nitrobenzene
Pyridine

2.10 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The sample date and time were included in the sample IDs in the EDD and not included in the sample IDs in the laboratory report. No other discrepancies were identified between the level II report and the EDD.

1.0 POLYCHLORINATED BIPHENYLS

The samples were analyzed for PCBs by EPA Methods 3510C/8082A and 3541/8082A.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

⊗ Overall Assessment
✓ Holding Times
✓ Method Blank
✓ Matrix Spike/Matrix Spike Duplicate
✓ Laboratory Control Sample
✓ Surrogates
✓ Equipment Blank
✓ Field Duplicate
✓ Sensitivity
✓ Electronic Data Deliverable Review

1.1 Overall Assessment

The PCB data reported in this data set are considered usable for meeting project objectives. The analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this data set is 100%.

Sample W5-b, S5, C 08.04.17 contains a mixture of PCBs 1248, 1254 and 1260. There are peaks in 1248 and 1254 that are in both of these PCBs and peaks in 1254 and 1260 that are in both of these PCBs; therefore, there is contribution between PCBs when more than one PCB is detected in a sample. Based on professional and technical judgment, the concentrations of PCBs 1248, 1254 and 1260 in this sample were J qualified as estimated.

Sample ID	Compound	Laboratory Concentration (mg/kg)	Laboratory Flag	Validation Concentration (mg/kg)	Validation Qualifier	Reason Code
W5-b, S5, C 08.04.17	PCB-1248	6.5	NA	6.5	J	13
W5-b, S5, C 08.04.17	PCB-1254	2.2	NA	2.2	J	13
W5-b, S5, C 08.04.17	PCB-1260	0.34	NA	0.34	J	13

mg/kg-milligrams per kilograms
NA-not applicable
* Validation qualifiers are defined in Attachment 1 at the end of this report
**Reason codes are defined in Attachment 2 at the end of this report

1.2 Holding Times

No holding times are listed in the referenced method for PCB analyses. The samples were extracted and analyzed within 12 days of collection. Therefore, no qualifications were applied to the data, based on professional and technical judgment.

1.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two method blanks were reported (batches 219543 and 520051). PCBs were not detected in the method blanks above the MDLs.

1.4 Matrix Spike/Matrix Spike Duplicate

An MS/MSD pair was not reported.

1.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two LCS/LCSD pairs were reported. The recovery and RPD results were within the laboratory specified acceptance criteria.

1.6 Surrogates

Acceptable surrogate recoveries were reported.

1.7 Equipment Blank

Two equipment blanks were collected with the samples, EQ BLK #1 08.03.17 and EQ BLK #2 08.04.17. PCBs were not detected in the equipment blanks above the MDLs.

1.8 Field Duplicate

A field duplicate was not collected with the sample set.

1.9 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were reported for sample W5-b, S5, C 08.04.17 due to the dilution analyzed.

It was noted that no NYSDEC constituent levels were listed for PCBs.

1.10 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The sample date and time were included in the sample IDs in the EDD and not included in the sample IDs in

the laboratory report. No other discrepancies were identified between the level II report and the EDD.

4.0 METALS

The samples were analyzed for metals by EPA methods 3005A/6010C and 3050B/6010C (Mercury evaluated separately in Section 5.0, below).

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Equipment Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

4.1 Overall Assessment

The metals data reported in this data set are considered usable for meeting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this data set is 100%.

4.2 Holding Times

The holding time for the metals analyses of solid and water samples is 180 days from sample collection to analysis. The holding times were met for the sample analyses.

4.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two method blanks were reported (batches 219443 and 219379). The metals were not detected in the method blanks above the MDLs.

4.4 Matrix Spike/Matrix Spike Duplicate

An MS/MSD pair was not reported.

4.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two LCSs were reported. The recovery results were within the laboratory specified acceptance criteria.

4.6 Laboratory Duplicate

A laboratory duplicate was not reported.

4.7 Equipment Blank

Two equipment blanks were collected with the samples, EQ BLK #1 08.03.17 and EQ BLK #2 08.04.17. The metals were not detected in the equipment blanks above the MDLs.

4.8 Field Duplicate

A field duplicate was not collected with the sample set.

4.9 Sensitivity

The samples were reported to the MDLs. No elevated non-detect results were reported.

The MDLs were at or below the NYSDEC DER10 App 5 Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010. It was noted that no NYSDEC constituent level was listed for chromium.

4.10 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The sample date and time were included in the sample IDs in the EDD and not included in the sample IDs in the laboratory report. No other discrepancies were identified between the level II report and the EDD.

5.0 MERCURY

The samples were analyzed for mercury by EPA methods 7470A and 7471B.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Equipment Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

5.1 Overall Assessment

The mercury data reported in this data set are considered usable for meeting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this data set is 100%.

5.2 Holding Times

The holding time for the mercury analyses of solid and water samples is 28 days from sample collection to analysis. The holding times were met for the sample analyses.

5.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two method blanks were reported (batches 219569 and 219480). Mercury was not detected in the methods blank above the MDLs.

5.4 Matrix Spike/Matrix Spike Duplicate

MS/MSD pairs were not reported.

5.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two LCSs were reported. The recovery results were within the laboratory specified acceptance criteria.

5.6 Laboratory Duplicate

A laboratory duplicate was not reported.

5.7 Equipment Blank

Two equipment blanks were collected with the samples, EQ BLK #1 08.03.17 and EQ BLK #2 08.04.17. Mercury was not detected in the equipment blanks above the MDL.

5.8 Field Duplicate

A field duplicate was not collected with the sample set.

5.9 Sensitivity

The samples were reported to the MDL. No elevated non-detect results were reported.

The MDL was at or below the NYSDEC DER10 App 5 Constituent Level for Imported Fill or Soil Restricted Residential Use May 2010.

5.10 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The sample date and time were included in the sample IDs in the EDD and not included in the sample IDs in the laboratory report. No other discrepancies were identified between the level II report and the EDD.

6.0 TOTAL CYANIDE

The samples were analyzed for total cyanide by EPA Methods 9010C/9014.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues

were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Equipment Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

6.1 Overall Assessment

The total cyanide data reported in this data set are considered usable for meeting project objectives. The analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for analysis, for this data set is 100%.

6.2 Holding Times

The holding time for the total cyanide analysis of solid and water samples is 14 days from sample collection to analysis. The holding times were met for the sample analyses.

6.3 Method Blanks

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two method blanks were reported (batches 219684 and 219686). Cyanide was not detected in the method blanks above the MDLs.

6.4 Matrix Spike/Matrix Spike Duplicate

MS/MSD pairs were not reported.

6.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Five LCSs and one LCS/LCSD pair were reported. The recovery and RPD results were within the laboratory specified acceptance criteria.

6.6 Laboratory Duplicate

Laboratory duplicates were not reported.

6.7 Equipment Blank

Two equipment blanks were collected with the samples, EQ BLK #1 08.03.17 and EQ BLK #2 08.04.17. Cyanide was not detected in the equipment blanks above the MDL.

6.8 Field Duplicate

A field duplicate was not collected with the sample set.

6.9 Sensitivity

The samples were reported to the MDL. No elevated non-detect results were reported.

The MDL was at or below the NYSDEC DER10 App 5 Constituent Level for Imported Fill or Soil Restricted Residential Use May 2010.

6.10 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The sample date and time were included in the sample IDs in the EDD and not included in the sample IDs in the laboratory report. No other discrepancies were identified between the level II report and the EDD.

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ATTACHMENT 1
DATA VALIDATION QUALIFIER DEFINITIONS AND INTERPRETATION KEY
Assigned by Geosyntec's Data Validation Team

DATA QUALIFIER DEFINITIONS

U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

J+ The analyte was positively identified; however, the associated numerical value is likely to be higher that the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.

J- The analyte was positively identified; however, the associated numerical value is likely to be lower that the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ATTACHMENT 2
DATA VALIDATION REASON CODES
Assigned by Geosyntec's Data Validation Team

Valid Value	Description
1	Preservation requirement not met
2	Analysis holding time exceeded
3	Blank contamination (i.e., method, trip, equipment, etc.)
4	Matrix spike/matrix spike duplicate recovery or RPD outside limits
5	LCS recovery outside limits
6	Surrogate recovery outside limits
7	Field Duplicate RPD exceeded
8	Serial dilution percent difference exceeded
9	Calibration criteria not met
10	Linear range exceeded
11	Internal standard criteria not met
12	Lab duplicates RPD exceeded
13	Other

RPD-relative percent difference

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Memorandum

Date:	31 August 2017
To:	Aron Krasnopoler
From:	Mary Tyler
CC:	J. Caprio
Subject:	**Stage 2A Data Validation - Level II Data Deliverable, TestAmerica Job ID # 180-69679-1**

SITE: Former Sperry Remington Site-North IRM

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of six solid samples and two field duplicate samples, collected August 24, 2017, as part of the Former Sperry Remington Site-North IRM project. The analyses were performed at TestAmerica Laboratories, Inc., Pittsburgh, Pennsylvania. The samples were analyzed for the following tests:

- Volatile Organic Compounds (VOCs) by EPA Methods 5035/8260C
- Semivolatile Organic Compounds (SVOCs) by EPA Methods 3541/8270D
- Polychlorinated Biphenyls (PCBs) by EPA Methods 3541/8082A
- Metals by EPA Methods 3050B/6010C
- Mercury by EPA Method 7471B
- Total Cyanide by EPA Methods 9010C/9014
- Total Solids by Standard Method 2540G

EXECUTIVE SUMMARY

The samples were handled, prepared, and measured in the same manner under similar prescribed conditions.

Overall, based on this Stage 2A data validation covering the quality control (QC) parameters listed below, the data as qualified are usable for meeting project objectives. Qualified data should be used within the limitations of the qualification.

The data were validated based on the Quality Assurance Project Plan (QAPP) for Former Sperry Remington Facility Industrial Outfall Site, Elmira, New York, NYSDEC Site I.D. # 808043,

NY09-2480-04, July 7, 2010, Revised November 11, 2010, USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review, January 2017 (EPA 540-R-2017-002), USEPA Contract Laboratory Program National Functional Guidelines for Superfund Inorganic Methods Data Review, January 2017 (EPA 540-R-2017-001), the pertinent methods referenced by the laboratory report and professional and technical judgment.

The following samples were analyzed and validated at Stage 2A level in the data set:

Laboratory ID	Client ID
180-69679-1	Wb4-5, S2A 82417
180-69679-2	Wb4-5, S2B 82417
180-69679-3	Wb4-5, S2C 82417
180-69679-4	Wb5-6, S2A 82417

Laboratory ID	Client ID
180-69679-5	Wb5-6, S2B 82417
180-69679-6	Wb5-6, S2C 82417
180-69679-7	DUP 22
180-69679-8	DUP 23

The samples were received at the laboratory at 3.1°C, within the criteria of 0-6°C. No sample preservation issues were noted by the laboratory.

The following sample receiving issues were noted:

- Incorrect error corrections were observed on the chain of custody (COC), instead of the proper procedure of a single strike through, correction, and initials and date of person making the corrections.

- Sample collection times were not documented on the COC for the field duplicate samples. The laboratory assigned collection times of 00:00.

The solids data, used to report the samples on a dry weight basis, were not validated.

1.0 VOLATILE ORGANIC COMPOUNDS

The samples were analyzed for VOCs by EPA methods 5035/8260C.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

✓ Overall Assessment
✓ Holding Times
✓ Method Blank
✓ Matrix Spike/Matrix Spike Duplicate
✓ Laboratory Control Sample

- ✓ Surrogates
- ✓ Trip Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

1.1 Overall Assessment

The VOC data reported in this package are considered usable for meeting project objectives. The analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

The narrative indicated that the continuing calibration verification (CCV) percent differences (%Ds) for 2-butanone and vinyl chloride were high in analytical batch 221134, outside method specified acceptance criteria. The %Ds were both 21.1%D, with low biases. Since the %Ds were within the validation guidance acceptance criteria of 40%D and 30%D, respectively, no qualifications were applied to the data.

1.2 Holding Times

The holding times for the VOC analysis of a solid sample collected using a Terracore are 48 hours from collection to laboratory receipt and 14 days from sample collection to analysis. The holding times were met for the sample analyses.

1.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 221134). VOCs were not detected in the method blank above the method detection limits (MDLs).

1.4 Matrix Spike/Matrix Spike Duplicate (MS/MSD)

An MS/MSD pair was not reported.

1.5 Laboratory Control Sample (LCS)

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery results were within the laboratory specified acceptance criteria.

1.6 Surrogates

Acceptable surrogate recoveries were reported.

1.7 Trip Blank

A trip blank did not accompany the sample set. No qualifications were applied to the data, but the omission should be noted by the data user.

1.8 Field Duplicate

Two field duplicate samples were collected with the sample set. One field duplicate was analyzed for VOCs, DUP 23. Acceptable precision [relative percent difference (RPD) <40% for results greater than five times the reporting limit (RL) and ±2 times the RL for results less than five times the RL] was demonstrated between the field duplicate and the original sample, Wb5-6, S2A 82417.

1.9 Sensitivity

The samples were reported to the MDLs. No elevated non-detect results were reported.

The MDLs were at or below the NYSDEC DER10 App 5 Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010.

1.10 Electronic Data Deliverable (EDD) Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The sample collection date and time were included in the sample IDs in the EDD and not included in the sample IDs in the laboratory report. No other discrepancies were identified between the level II report and the EDD.

2.0 SEMIVOLATILE ORGANIC COMPOUNDS

The samples were analyzed for SVOCs by EPA methods 3541/8270D.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

✓ Overall Assessment

- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Surrogates
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

2.1 Overall Assessment

The SVOC data reported in this package are considered usable for meeting project objectives. The analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

The narrative indicated that the CCV %Ds for 1,4-dioxane, pentachlorophenol and pyridine were high in analytical batch 221263, outside method specified acceptance criteria. The %Ds were 32.8%D, 30.9%D and 40.3%D, respectively, with high biases. Since the %Ds were within the validation guidance acceptance criteria of 40%D, no qualifications were applied to the data.

2.2 Holding Times

The holding times for SVOC analysis of solid samples are 14 days from sample collection to extraction and 40 days from extraction to analysis. The holding times were met for the sample analyses.

2.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 221247). SVOCs were not detected in the method blank above the MDLs.

2.4 Matrix Spike/Matrix Spike Duplicate

An MS/MSD pair was not reported.

2.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery results were within the laboratory specified acceptance criteria.

2.6 Surrogates

Acceptable surrogate recoveries were reported.

2.7 Field Duplicate

Two field duplicate samples were collected. One field duplicate was analyzed for SVOCs, DUP 22. Acceptable precision (RPD <40% for results greater than five times the RL and ±2 times the RL for results less than five times the RL) was demonstrated between the field duplicate and the original sample, Wb4-5, S2C 82417.

2.8 Sensitivity

The samples were reported to the MDLs. No elevated non-detect results were reported.

The MDLs were at or below the NYSDEC DER10 App 5 Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010. It was noted that no NYSDEC DER10 App 5 Constituent Levels for Imported Fill were listed for the following compounds:

2,4,5-Trichlorophenol
2,4,6-Trichlorophenol
2,4-Dinitrotoluene
2-Methylphenol
Dibenzofuran
Hexachlorobenzene

Hexachlorobutadiene
Hexachloroethane
Methylphenol, 3 & 4
Nitrobenzene
Pyridine

2.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The sample collection date and time were included in the sample IDs in the EDD and not included in the sample IDs in the laboratory report. No other discrepancies were identified between the level II report and the EDD.

3.0 POLYCHLORINATED BIPHENYLS

The samples were analyzed for PCBs by EPA Methods 3541/8082A.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

⊗ Overall Assessment
✓ Holding Times
✓ Method Blank
✓ Matrix Spike/Matrix Spike Duplicate
✓ Laboratory Control Sample
✓ Surrogates
✓ Field Duplicate
✓ Sensitivity
✓ Electronic Data Deliverable Review

3.1 Overall Assessment

The PCB data reported in this data set are considered usable for meeting project objectives. The analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

The samples contain mixtures of PCBs 1248 and 1254. There are peaks in 1248 and 1254 that are in both of these PCBs; therefore, there is contribution between PCBs when more than one PCB is detected in a sample. Therefore, based on professional and technical judgment, the concentrations of PCBs 1248 and 1254 in the samples were J qualified as estimated.

Sample ID	Compound	Laboratory Concentration (mg/kg)	Laboratory Flag	Validation Concentration (mg/kg)	Validation Qualifier*	Reason Code**
DUP 22	PCB-1248	0.11	NA	0.11	J	13
DUP 22	PCB-1254	0.031	NA	0.031	J	13
Wb4-5, S2C 82417	PCB-1248	0.12	NA	0.12	J	13
Wb4-5, S2C 82417	PCB-1254	0.032	NA	0.032	J	13
Wb5-6, S2C 82417	PCB-1248	0.14	NA	0.14	J	13
Wb5-6, S2C 82417	PCB-1254	0.041	NA	0.041	J	13

mg/kg-milligrams per kilograms

NA-not applicable
* Validation qualifiers are defined in Attachment 1 at the end of this report
**Reason codes are defined in Attachment 2 at the end of this report

3.2 Holding Times

No holding times are listed in the referenced method for PCB analyses. The samples were extracted and analyzed within 13 days of collection. Therefore, no qualifications were applied to the data, based on professional and technical judgment.

3.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 221249). PCBs were not detected in the method blank above the MDLs.

3.4 Matrix Spike/Matrix Spike Duplicate

An MS/MSD pair was not reported.

3.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS/LCS duplicate (LCSD) pair was reported. The recovery and RPD results were within the laboratory specified acceptance criteria.

3.6 Surrogates

Acceptable surrogate recoveries were reported.

3.7 Field Duplicate

Two field duplicate samples were collected. One field duplicate was analyzed for PCBs, DUP 22. Acceptable precision (RPD <40% for results greater than five times the RL and ±2 times the RL for results less than five times the RL) was demonstrated between the field duplicate and the original sample, Wb4-5, S2C 82417.

3.8 Sensitivity

The samples were reported to the MDLs. No elevated non-detect results were reported.

It was noted that no NYSDEC constituent levels were listed for PCBs.

3.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The sample collection date and time were included in the sample IDs in the EDD and not included in the sample IDs in the laboratory report. No other discrepancies were identified between the level II report and the EDD.

4.0 METALS

The samples were analyzed for metals by EPA methods 3050B/6010C (Mercury evaluated separately in Section 5.0, below).

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

4.1 Overall Assessment

The metals data reported in this data set are considered usable for meeting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

4.2 Holding Times

The holding time for the metals analysis of a solid sample is 180 days from sample collection to analysis. The holding times were met for the sample analyses.

4.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 221352). The metals were not detected in the method blank above the MDLs.

4.4 Matrix Spike/Matrix Spike Duplicate

An MS/MSD pair was not reported.

4.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery results were within the laboratory specified acceptance criteria.

4.6 Laboratory Duplicate

A laboratory duplicate was not reported.

4.7 Field Duplicate

Two field duplicate samples were collected. One field duplicate was analyzed for metals, DUP 22. Acceptable precision (RPD <40% for results greater than five times the RL and ±2 times the RL for results less than five times the RL) was demonstrated between the field duplicate and the original sample, Wb4-5, S2C 82417.

4.8 Sensitivity

The samples were reported to the MDLs. No elevated non-detect results were reported.

The MDLs were at or below the NYSDEC DER10 App 5 Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010. It was noted that no NYSDEC constituent level was listed for chromium.

4.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The sample collection date and time were included in the sample IDs in the EDD and not included in the sample

IDs in the laboratory report. No other discrepancies were identified between the level II report and the EDD.

5.0 MERCURY

The samples were analyzed for mercury by EPA method 7471B.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

✓ Overall Assessment
✓ Holding Times
✓ Method Blank
⊗ Matrix Spike/Matrix Spike Duplicate
✓ Laboratory Control Sample
✓ Laboratory Duplicate
✓ Field Duplicate
✓ Sensitivity
✓ Electronic Data Deliverable Review

5.1 Overall Assessment

The mercury data reported in this data set are considered usable for meeting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

5.2 Holding Times

The holding time for the mercury analysis of solid samples is 28 days from sample collection to analysis. The holding times were met for the sample analyses.

5.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 221438). Mercury was not detected in the method blank above the MDL.

5.4 Matrix Spike/Matrix Spike Duplicate

MS/MSD pairs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One sample set specific MS/MSD pair was reported, using sample Wb4-5, S2C 82417. The recovery and RPD results were within the laboratory specified acceptance criteria, with the following exception.

The MS recovery was high and outside the laboratory specified acceptance criteria. Therefore, the concentration of mercury in sample Wb4-5, S2C 82417 was J qualified as estimated.

Sample ID	Compound	Laboratory Concentration (mg/kg)	Laboratory Flag	Validation Concentration (mg/kg)	Validation Qualifier*	Reason Code**
Wb4-5, S2C 82417	Mercury	0.016	J, F1	0.016	J	4

mg/kg-milligrams per kilograms
J- Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value
F1-laboratory flag indicating that the MS and/or MSD recovery is outside acceptance limits

5.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery result was within the laboratory specified acceptance criteria.

5.6 Laboratory Duplicate

A laboratory duplicate was not reported.

5.7 Field Duplicate

Two field duplicate samples were collected. One field duplicate was analyzed for mercury, DUP 22. Acceptable precision (RPD <40% for results greater than five times the RL and ±2 times the RL for results less than five times the RL) was demonstrated between the field duplicate and the original sample, Wb4-5, S2C 82417.

5.8 Sensitivity

The samples were reported to the MDL. No elevated non-detect results were reported.

The MDL was at or below the NYSDEC DER10 App 5 Constituent Level for Imported Fill or Soil Restricted Residential Use May 2010.

5.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The sample collection date and time were included in the sample IDs in the EDD and not included in the sample IDs in the laboratory report. No other discrepancies were identified between the level II report and the EDD.

6.0 TOTAL CYANIDE

The samples were analyzed for total cyanide by EPA Methods 9010C/9014.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

6.1 Overall Assessment

The total cyanide data reported in this data set are considered usable for meeting project objectives. The analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

6.2 Holding Times

The holding time for the total cyanide analysis of solid samples is 14 days from sample collection to analysis. The holding times were met for the sample analyses.

6.3 Method Blanks

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 221468). Cyanide was not detected in the method blank above the MDL.

6.4 Matrix Spike/Matrix Spike Duplicate

An MS/MSD pair was not reported.

6.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Three LCSs were reported. The recovery results were within the laboratory specified acceptance criteria.

6.6 Laboratory Duplicate

Laboratory duplicates were not reported.

6.7 Field Duplicate

Two field duplicate samples were collected. One field duplicate was analyzed for cyanide, DUP 22. Acceptable precision (RPD <40% for results greater than five times the RL and ±2 times the RL for results less than five times the RL) was demonstrated between the field duplicate and the original sample, Wb4-5, S2C 82417.

6.8 Sensitivity

The samples were reported to the MDL. No elevated non-detect results were reported.

The MDL was at or below the NYSDEC DER10 App 5 Constituent Level for Imported Fill or Soil Restricted Residential Use May 2010.

6.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The sample collection date and time were included in the sample IDs in the EDD and not included in the sample IDs in the laboratory report. No other discrepancies were identified between the level II report and the EDD.

* * * * *

ATTACHMENT 1
DATA VALIDATION QUALIFIER DEFINITIONS AND INTERPRETATION KEY
Assigned by Geosyntec's Data Validation Team

DATA QUALIFIER DEFINITIONS

U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

J+ The analyte was positively identified; however, the associated numerical value is likely to be higher that the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.

J- The analyte was positively identified; however, the associated numerical value is likely to be lower that the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ATTACHMENT 2
DATA VALIDATION REASON CODES
Assigned by Geosyntec's Data Validation Team

Valid Value	Description
1	Preservation requirement not met
2	Analysis holding time exceeded
3	Blank contamination (i.e., method, trip, equipment, etc.)
4	Matrix spike/matrix spike duplicate recovery or RPD outside limits
5	LCS recovery outside limits
6	Surrogate recovery outside limits
7	Field Duplicate RPD exceeded
8	Serial dilution percent difference exceeded
9	Calibration criteria not met
10	Linear range exceeded
11	Internal standard criteria not met
12	Lab duplicates RPD exceeded
13	Other

RPD-relative percent difference

Geosyntec consultants

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Knoxville, TN 37922
PH 865.330.0037
www.geosyntec.com

Memorandum

Date:	11 September 2017
To:	Aron Krasnopoler
From:	Mary Tyler
CC:	J. Caprio
Subject:	**Stage 2A Data Validation - Level II Data Deliverable, TestAmerica Job ID # 180-69728-1**

SITE: Former Sperry Remington Site-North IRM

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of two solid samples, collected August 25, 2017, as part of the Former Sperry Remington Site-North IRM project. The analyses were performed at TestAmerica Laboratories, Inc., Pittsburgh, Pennsylvania. The samples were analyzed for the following tests:

- Volatile Organic Compounds (VOCs) by EPA Methods 5035/8260C
- Semivolatile Organic Compounds (SVOCs) by EPA Methods 3541/8270D
- Polychlorinated Biphenyls (PCBs) by EPA Methods 3541/8082A
- Metals by EPA Methods 3050B/6010C
- Mercury by EPA Method 7471B
- Total Cyanide by EPA Methods 9010C/9014
- Total Solids by Standard Method 2540G

EXECUTIVE SUMMARY

The samples were handled, prepared, and measured in the same manner under similar prescribed conditions.

Overall, based on this Stage 2A data validation covering the quality control (QC) parameters listed below, the data as qualified are usable for meeting project objectives. Qualified data should be used within the limitations of the qualification.

The data were validated based on the Quality Assurance Project Plan (QAPP) for Former Sperry Remington Facility Industrial Outfall Site, Elmira, New York, NYSDEC Site I.D. # 808043,

NY09-2480-04, July 7, 2010, Revised November 11, 2010, USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review, January 2017 (EPA 540-R-2017-002), USEPA Contract Laboratory Program National Functional Guidelines for Superfund Inorganic Methods Data Review, January 2017 (EPA 540-R-2017-001), the pertinent methods referenced by the laboratory report and professional and technical judgment.

The following samples were analyzed and validated at Stage 2A level in the data set:

Laboratory ID	Client ID
180-69728-1	Wb5-6, S3A, 82517

Laboratory ID	Client ID
180-69728-2	Wb5-6, S3C, 82517

The samples were received at the laboratory at 2.4°C, within the criteria of 0-6°C. No sample preservation issues were noted by the laboratory.

The solids data, used to report the samples on a dry weight basis, were not validated.

1.0 VOLATILE ORGANIC COMPOUNDS

The samples were analyzed for VOCs by EPA methods 5035/8260C.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Surrogates
- ✓ Trip Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

1.1 Overall Assessment

The VOC data reported in this package are considered usable for meeting project objectives. The analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

1.2 Holding Times

The holding times for the VOC analysis of a solid sample collected using a Terracore are 48 hours from collection to laboratory receipt and 14 days from sample collection to analysis. The holding times were met for the sample analyses.

1.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 221413). VOCs were not detected in the method blank above the method detection limits (MDLs).

1.4 Matrix Spike/Matrix Spike Duplicate (MS/MSD)

MS/MSD pairs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One sample set specific MS/MSD pair was reported, using sample Wb5-6, S3A, 82517. The recovery and relative percent difference (RPD) results were within the laboratory specified acceptance criteria.

1.5 Laboratory Control Sample (LCS)

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery results were within the laboratory specified acceptance criteria.

1.6 Surrogates

Acceptable surrogate recoveries were reported.

1.7 Trip Blank

A trip blank did not accompany the sample set. No qualifications were applied to the data, but the omission should be noted by the data user.

1.8 Field Duplicate

Field duplicate samples were not collected with the sample set.

1.9 Sensitivity

The samples were reported to the MDLs. No elevated non-detect results were reported.

The MDLs were at or below the NYSDEC DER10 App 5 Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010.

1.10 Electronic Data Deliverable (EDD) Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The sample collection date and time were included in the sample IDs in the EDD and not included in the sample IDs in the laboratory report. No other discrepancies were identified between the level II report and the EDD.

2.0 SEMIVOLATILE ORGANIC COMPOUNDS

The samples were analyzed for SVOCs by EPA methods 3541/8270D.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Surrogates
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

2.1 Overall Assessment

The SVOC data reported in this package are considered usable for meeting project objectives. The analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

The narrative indicated that the continuing calibration verification (CCV) percent difference (%D) for pentachlorophenol was high in analytical batch 221833, outside method specified acceptance criteria. The %D was 38.5%D, with a low bias. Since the %D was within the validation guidance acceptance criteria of 40%D, no qualifications were applied to the data.

2.2 Holding Times

The holding times for SVOC analysis of solid samples are 14 days from sample collection to extraction and 40 days from extraction to analysis. The holding times were met for the sample analyses.

2.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 221762). SVOCs were not detected in the method blank above the MDLs.

2.4 Matrix Spike/Matrix Spike Duplicate

An MS/MSD pair was not reported.

2.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery results were within the laboratory specified acceptance criteria.

2.6 Surrogates

Acceptable surrogate recoveries were reported.

2.7 Field Duplicate

Field duplicate samples were not collected with the sample set.

2.8 Sensitivity

The samples were reported to the MDLs. No elevated non-detect results were reported.

The MDLs were at or below the NYSDEC DER10 App 5 Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010. It was noted that no NYSDEC DER10 App 5 Constituent Levels for Imported Fill were listed for the following compounds:

2,4,5-Trichlorophenol	2-Methylphenol
2,4,6-Trichlorophenol	Dibenzofuran
2,4-Dinitrotoluene	Hexachlorobenzene

Hexachlorobutadiene
Hexachloroethane
Methylphenol, 3 & 4

Nitrobenzene
Pyridine

2.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The sample collection date and time were included in the sample IDs in the EDD and not included in the sample IDs in the laboratory report. No other discrepancies were identified between the level II report and the EDD.

3.0 POLYCHLORINATED BIPHENYLS

The samples were analyzed for PCBs by EPA Methods 3541/8082A.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

⊗ Overall Assessment
✓ Holding Times
✓ Method Blank
✓ Matrix Spike/Matrix Spike Duplicate
✓ Laboratory Control Sample
✓ Surrogates
✓ Field Duplicate
✓ Sensitivity
✓ Electronic Data Deliverable Review

3.1 Overall Assessment

The PCB data reported in this data set are considered usable for meeting project objectives. The analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

Sample Wb5-6, S3C, 82517 contains a mixture of PCBs 1248, 1254 and 1260. There are peaks in 1248 and 1254 that are in both of these PCBs and peaks in 1254 and 1260 that are in both of these PCBs; therefore, there is contribution between PCBs when more than one PCB is detected in a

sample. Based on professional and technical judgment, the concentrations of PCBs 1248, 1254 and 1260 in this sample were J qualified as estimated.

Sample ID	Compound	Laboratory Concentration (mg/kg)	Laboratory Flag	Validation Concentration (mg/kg)	Validation Qualifier*	Reason Code**
Wb5-6, S3C, 82517	PCB-1248	2.1	NA	2.1	J	13
Wb5-6, S3C, 82517	PCB-1254	0.99	NA	0.99	J	13
Wb5-6, S3C, 82517	PCB-1260	0.13	NA	0.13	J	13

mg/kg-milligrams per kilograms
NA-not applicable
* Validation qualifiers are defined in Attachment 1 at the end of this report
**Reason codes are defined in Attachment 2 at the end of this report

3.2 Holding Times

No holding times are listed in the referenced method for PCB analyses. The samples were extracted and analyzed within 13 days of collection. Therefore, no qualifications were applied to the data, based on professional and technical judgment.

3.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 221764). PCBs were not detected in the method blank above the MDLs.

3.4 Matrix Spike/Matrix Spike Duplicate

An MS/MSD pair was not reported.

3.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS/LCS duplicate (LCSD) pair was reported. The recovery and RPD results were within the laboratory specified acceptance criteria.

3.6 Surrogates

Acceptable surrogate recoveries were reported.

3.7 Field Duplicate

Field duplicate samples were not collected with the sample set.

3.8 Sensitivity

The samples were reported to the MDLs. No elevated non-detect results were reported.

It was noted that no NYSDEC constituent levels were listed for PCBs.

3.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The sample collection date and time were included in the sample IDs in the EDD and not included in the sample IDs in the laboratory report. No other discrepancies were identified between the level II report and the EDD.

4.0 METALS

The samples were analyzed for metals by EPA methods 3050B/6010C (Mercury evaluated separately in Section 5.0, below).

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

4.1 Overall Assessment

The metals data reported in this data set are considered usable for meeting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

4.2 Holding Times

The holding time for the metals analysis of a solid sample is 180 days from sample collection to analysis. The holding times were met for the sample analyses.

4.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 221454). The metals were not detected in the method blank above the MDLs.

4.4 Matrix Spike/Matrix Spike Duplicate

An MS/MSD pair was not reported.

4.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery results were within the laboratory specified acceptance criteria.

4.6 Laboratory Duplicate

A laboratory duplicate was not reported.

4.7 Field Duplicate

Field duplicate samples were not collected with the sample set.

4.8 Sensitivity

The samples were reported to the MDLs. No elevated non-detect results were reported.

The MDLs were at or below the NYSDEC DER10 App 5 Constituent Levels for Imported Fill or Soil Restricted Residential Use May 2010. It was noted that no NYSDEC constituent level was listed for chromium.

4.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The sample collection date and time were included in the sample IDs in the EDD and not included in the sample

IDs in the laboratory report. No other discrepancies were identified between the level II report and the EDD.

5.0 MERCURY

The samples were analyzed for mercury by EPA method 7471B.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

5.1 Overall Assessment

The mercury data reported in this data set are considered usable for meeting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

5.2 Holding Times

The holding time for the mercury analysis of solid samples is 28 days from sample collection to analysis. The holding times were met for the sample analyses.

5.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 221438). Mercury was not detected in the method blank above the MDL.

5.4 Matrix Spike/Matrix Spike Duplicate

An MS/MSD pair was not reported.

5.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One LCS was reported. The recovery result was within the laboratory specified acceptance criteria.

5.6 Laboratory Duplicate

A laboratory duplicate was not reported.

5.7 Field Duplicate

Field duplicate samples were not collected with the sample set.

5.8 Sensitivity

The samples were reported to the MDL. No elevated non-detect results were reported.

The MDL was at or below the NYSDEC DER10 App 5 Constituent Level for Imported Fill or Soil Restricted Residential Use May 2010.

5.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The sample collection date and time were included in the sample IDs in the EDD and not included in the sample IDs in the laboratory report. No other discrepancies were identified between the level II report and the EDD.

6.0 TOTAL CYANIDE

The samples were analyzed for total cyanide by EPA Methods 9010C/9014.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised over the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

6.1 Overall Assessment

The total cyanide data reported in this data set are considered usable for meeting project objectives. The analytical completeness, defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

6.2 Holding Times

The holding time for the total cyanide analysis of solid samples is 14 days from sample collection to analysis. The holding times were met for the sample analyses.

6.3 Method Blanks

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported (batch 221468). Cyanide was not detected in the method blank above the MDL.

6.4 Matrix Spike/Matrix Spike Duplicate

An MS/MSD pair was not reported.

6.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Three LCSs were reported. The recovery results were within the laboratory specified acceptance criteria.

6.6 Laboratory Duplicate

Laboratory duplicates were not reported.

6.7 Field Duplicate

Field duplicate samples were not collected with the sample set.

6.8 Sensitivity

The samples were reported to the MDL. No elevated non-detect results were reported.

The MDL was at or below the NYSDEC DER10 App 5 Constituent Level for Imported Fill or Soil Restricted Residential Use May 2010.

6.9 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. The sample collection date and time were included in the sample IDs in the EDD and not included in the sample IDs in the laboratory report. No other discrepancies were identified between the level II report and the EDD.

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ATTACHMENT 1
DATA VALIDATION QUALIFIER DEFINITIONS AND INTERPRETATION KEY
Assigned by Geosyntec's Data Validation Team

DATA QUALIFIER DEFINITIONS

U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

J+ The analyte was positively identified; however, the associated numerical value is likely to be higher that the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.

J- The analyte was positively identified; however, the associated numerical value is likely to be lower that the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ATTACHMENT 2
DATA VALIDATION REASON CODES
Assigned by Geosyntec's Data Validation Team

Valid Value	Description
1	Preservation requirement not met
2	Analysis holding time exceeded
3	Blank contamination (i.e., method, trip, equipment, etc.)
4	Matrix spike/matrix spike duplicate recovery or RPD outside limits
5	LCS recovery outside limits
6	Surrogate recovery outside limits
7	Field Duplicate RPD exceeded
8	Serial dilution percent difference exceeded
9	Calibration criteria not met
10	Linear range exceeded
11	Internal standard criteria not met
12	Lab duplicates RPD exceeded
13	Other

RPD-relative percent difference

Appendix M

Environmental Easement on Site

Elmira City School District

Hillary J. Austin
Superintendent of Schools
Administration Building
951 Hoffman Street
Elmira, NY 14905

Phone: (607) 735-3010
Fax: (607) 735-3009
haustin@elmiracityschools.com

June 8, 2017

Benjamin Conlon, Esq.
New York State Department of Environmental Conservation
Office of General Counsel, 14th Floor
625 Broadway
Albany, New York 12233-1500

Re: Former Sperry Remington Property – North Portion
Elmira High School, 777 South Main Street, Elmira, NY 14904
Brownfield Cleanup Program: Site No: C808022

Dear Mr. Conlon:

This is to confirm that the Elmira City School District (ECSD) has authorized Unisys Corporation to undertake excavation work and related remediation activities at the Elmira High School as described in the Interim Remedial Measures Work Plan. We understand that this work will proceed in accordance with the Brownfield Cleanup Program overseen by the New York State Department of Environmental Conservation (NYSDEC). The forthcoming work falls within the scope of the site access agreement executed by ECSD and Unisys.

The District will have limited operations on the site this summer. No student activities will be occurring, and only a limited number of the full-year staff will be working on site. All individuals accessing the building will do so through the south parking lot and entrance, thereby avoiding all remedial and capital work being performed to the north of the building. Public access, such as new enrollments, will be accommodated through the south entrance. No staff or visitor will have access to the work areas.

This is also to confirm that ECSD understands that, once Unisys's work under the Brownfield Cleanup Program is complete, some residual constituents of concern will remain at the property. As a result, a site management plan and environmental easement will be required. Attached is a resolution that the Board of Education adopted at its June 7, 2017, regular meeting acknowledging the site management plan and environmental easement.

Sincerely,

Hillary J. Austin
Superintendent of Schools

cc: Conrad R.Wolan, Esq.

ELMIRA CITY SCHOOL DISTRICT

June 7, 2016

TO: Board of Education

FROM: Hillary Austin, Superintendent

SUBJECT: Unisys Work at Elmira High School

Pertinent Information

Before the District owned what is now known as Elmira High School, prior industrial uses on that site impacted subsurface environmental conditions. Unisys Corporation is the corporate successor to certain prior industrial users. The District and Unisys executed a site access agreement whereby Unisys is authorized to undertake investigative and, as needed, remediation activities with respect to environmental conditions associated with the former industrial uses at the site.

Unisys entered into the State's Brownfield Cleanup Program overseen by the New York State Department of Environmental Conservation (NYSDEC), which program is currently guiding Unisys's work at the high school property. During the summer of 2017, Unisys will undertake certain interim remedial activities which will include the excavation and removal of certain soils.

Once work under the Brownfield Cleanup Program is complete, some residual constituents of concern will remain, but at levels consistent with the planned future uses of the property. As a result, the District will be required to execute and record an environmental easement in favor of NYSDEC, requiring compliance with a site management plan (SMP) to be approved by NYSDEC. The SMP, which will be prepared by Unisys, will include certain engineering and/or institutional controls that will regulate certain future activities (e.g., future excavation work) at the property after a Certificate of Completion is issued under the Brownfield Cleanup Program.

Evaluation/Analysis

The actions being taken by Unisys are beneficial to the District and, upon completion of the Brownfield Cleanup Program, will leave the District with specific guidance for future operations at the High School site.

Recommended Resolutions

RESOLVED, that in accordance with Brownfield Cleanup Program requirements, the District will execute and cause to have recorded an environmental easement substantially in the form attached hereto upon the Elmira High School property and will require that activities on the Elmira High School property comply with all applicable SMP requirements (including applicable engineering and/or institutional controls) and requirements of any interim site management plans approved by NYSDEC; and it is further resolved that the Superintendent is directed and authorized to take all actions necessary to arrange for, execute, and cause to have recorded the environmental easement described herein.